Full wwPDB EM Validation Report

Mar 23, 2026 – 11:52 AM UTC

PDB ID	:	1C2W / pdb_00001c2w
Title	:	23S RRNA STRUCTURE FITTED TO A CRYO-ELECTRON MICROSCOPIC MAP AT 7.5 ANGSTROMS RESOLUTION
Authors	:	Brimacombe, R.; Mueller, F.
Deposited on	:	1999-07-28
Resolution	:	7.50 Å(reported)
Based on initial models	:	1CSV, 1CSX

This is a Full wwPDB EM Validation Report for a publicly released PDB/EMDB entry.

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

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

The following versions of software and data (see references ①) were used in the production of this report:

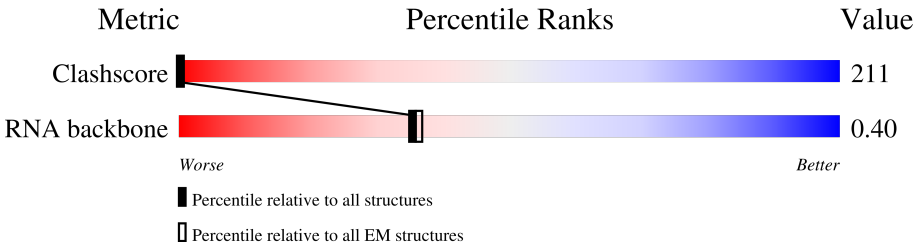
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 7.50 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)	EM structures (#Entries)
Clashscore	229148	23984
RNA backbone	8273	3508

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

Mol	Chain	Length	Quality of chain
1	B	2904	. 32% 18% 46%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	5MU	B	1915	-	-	X	-
1	5MU	B	1939	X	-	X	-
1	7MG	B	2069	-	-	X	-
1	5MU	B	2449	X	-	X	-
1	5MC	B	2498	X	-	X	-
1	7MG	B	745	-	-	X	-
1	PSU	B	746	-	-	X	-
1	5MU	B	747	-	-	X	-

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 62371 atoms, of which 23 are hydrogens and 0 are deuteriums.

In the tables below, 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 23S RIBOSOMAL RNA.

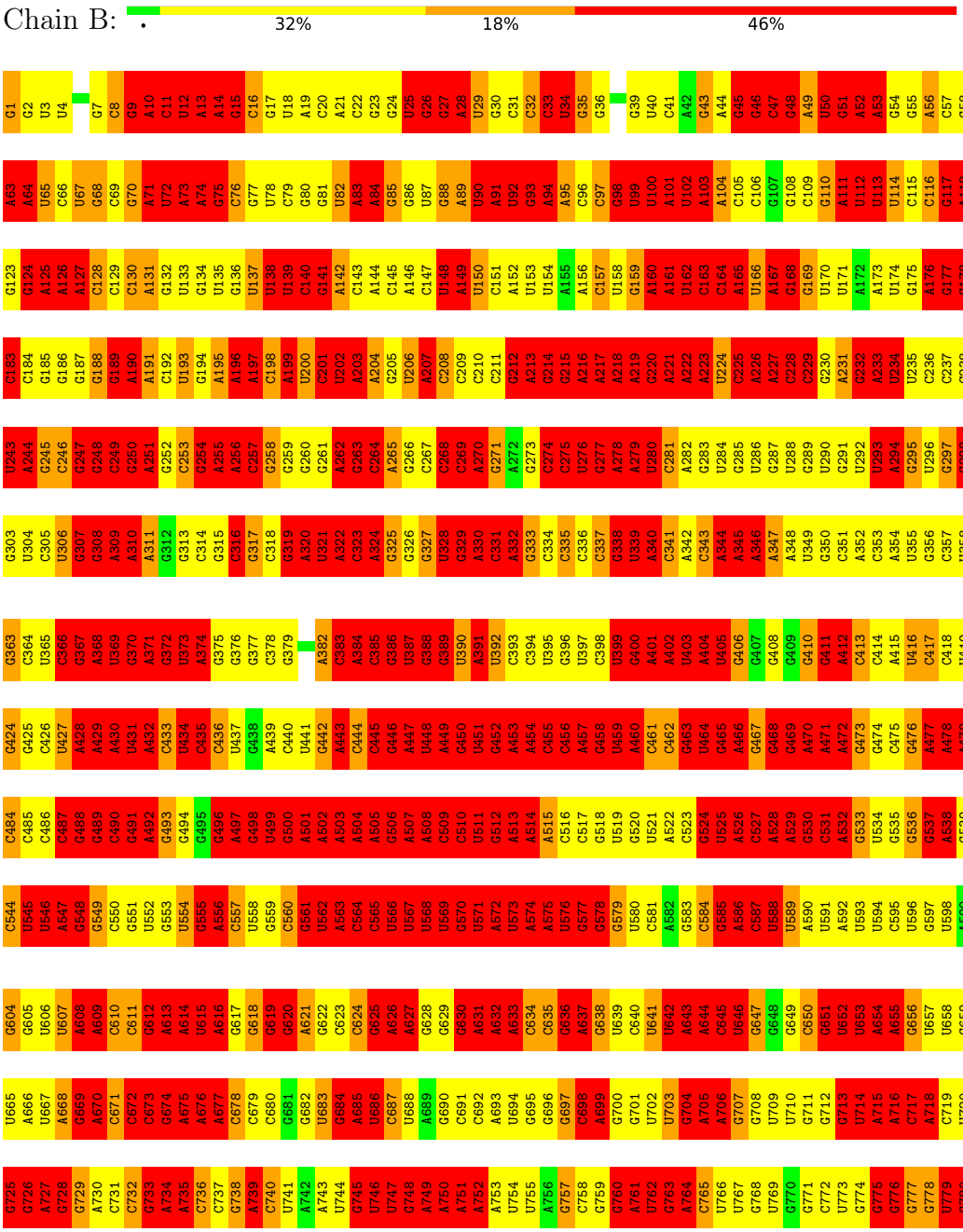
Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
1	B	2904	62371	27819	23	11467	20158	2904	0	0

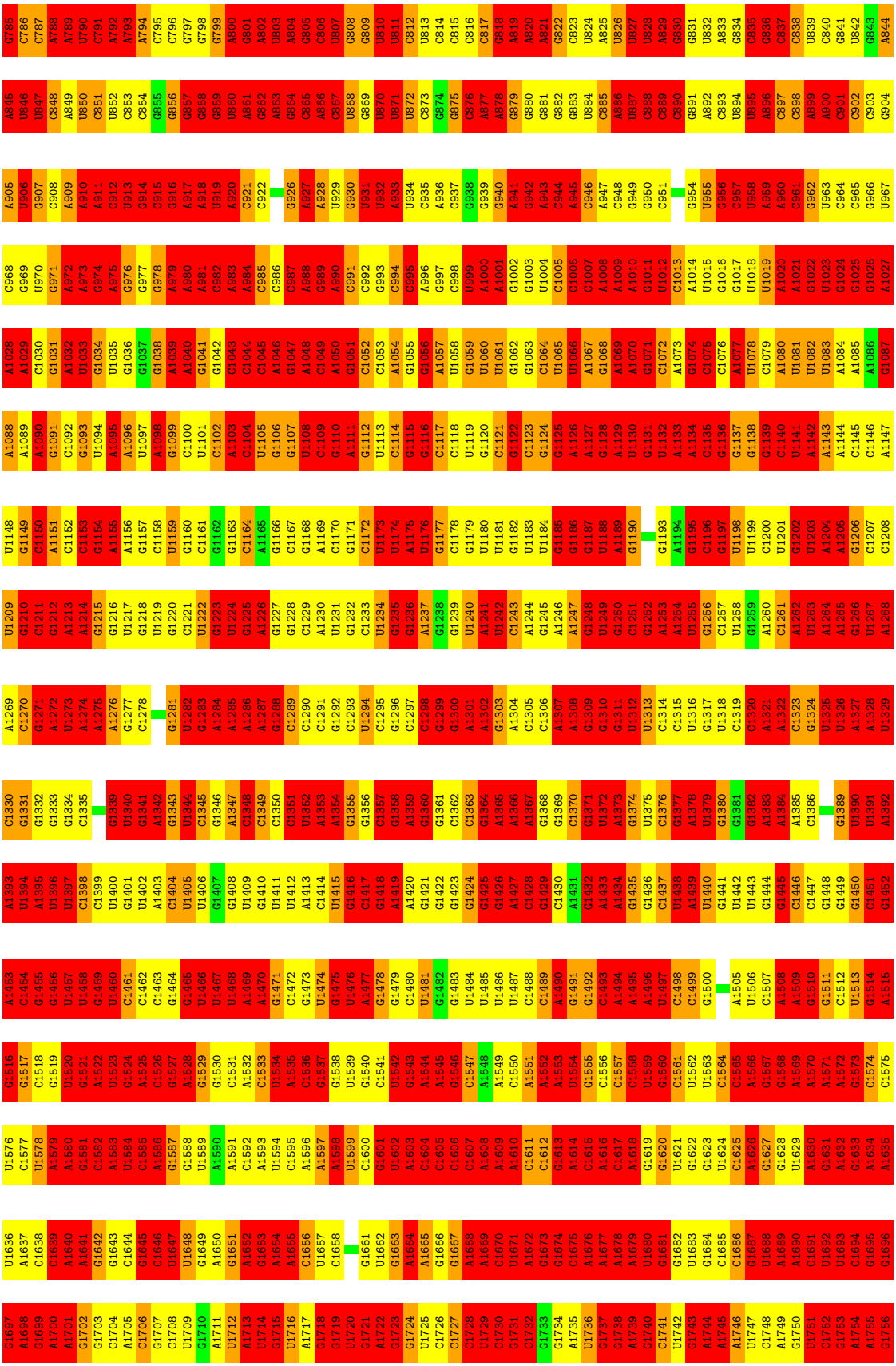
3 Residue-property plots (i)

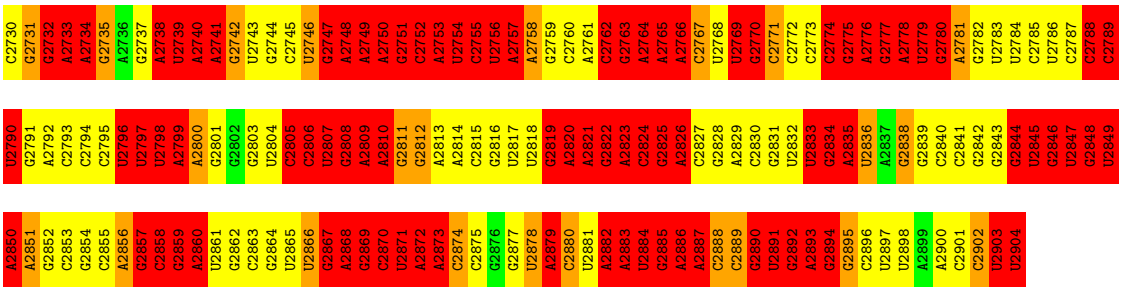
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 23S RIBOSOMAL RNA

Chain B:






C2730 G2731 G2732 A2733 A2734 G2735 A2736 G2737 A2738 U2739 A2740 A2741 G2742 U2743 G2744 C2745 U2746 G2747 A2748 A2749 A2750 G2751 C2752 A2753 U2754 C2755 U2756 A2757 A2758 C2759 C2760 A2761 C2762 G2763 A2764 A2765 A2766 C2767 U2768 U2769 G2770 C2771 C2772 C2773 C2774 G2775 A2776 G2777 A2778 U2779 G2780 A2781 G2782 U2783 U2784 C2785 U2786 C2787 C2788 C2789
U2790 G2791 A2792 C2793 C2794 C2795 U2796 U2797 U2798 A2799 A2800 G2801 G2802 G2803 U2804 C2805 C2806 U2807 G2808 A2809 A2810 G2811 G2812 A2813 A2814 C2815 G2816 U2817 U2818 G2819 A2820 A2821 G2822 A2823 C2824 G2825 A2826 C2827 G2828 A2829 C2830 G2831 U2832 U2833 G2834 A2835 U2836 A2837 G2838 G2839 C2840 C2841 G2842 G2843 G2844 U2845 G2846 U2847 G2848 U2849
A2850 A2851 G2852 C2853 G2854 C2855 A2856 G2857 C2858 G2859 A2860 U2861 G2862 C2863 G2864 U2865 U2866 G2867 A2868 G2869 C2870 U2871 A2872 A2873 C2874 C2875 G2876 G2877 U2878 A2879 C2880 U2881 A2882 A2883 U2884 G2885 A2886 A2887 C2888 C2889 G2890 U2891 G2892 A2893 G2894 G2895 C2896 U2897 U2898 A2899 A2900 C2901 C2902 U2903 U2904

4 Data and refinement statistics (i)

Xtriage (Phenix) and EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	1.00Å 1.00Å 1.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	(Not available) – 7.50	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-7.50)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	ERNA-3D	Depositor
R, R_{free}	(Not available) , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	62371	wwPDB-VP
Average B, all atoms (Å^2)	0.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 1MA, 7MG, PSU, 5MU, 5MC

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	B	4.62	6615/69489 (9.5%)	3.04	5838/108346 (5.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	466	117

All (6615) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2848	G	C1'-N9	60.90	2.39	1.48
1	B	1888	G	C1'-N9	51.99	2.25	1.48
1	B	857	G	C1'-N9	46.01	2.17	1.48
1	B	396	G	O3'-P	-41.94	0.98	1.61
1	B	2258	C	O3'-P	39.41	2.20	1.61
1	B	324	A	O3'-P	39.03	2.19	1.61
1	B	1848	A	O3'-P	38.74	2.19	1.61
1	B	435	C	O3'-P	38.28	2.18	1.61
1	B	1404	C	O3'-P	38.02	2.18	1.61
1	B	119	A	O3'-P	37.83	2.17	1.61
1	B	990	A	O3'-P	37.62	2.17	1.61
1	B	1927	A	O3'-P	37.04	2.16	1.61
1	B	429	A	C3'-O3'	37.01	2.15	1.42
1	B	75	G	C3'-O3'	36.48	2.15	1.42
1	B	157	C	O3'-P	36.47	2.15	1.61
1	B	850	U	O3'-P	36.15	2.15	1.61
1	B	74	A	O3'-P	35.80	2.14	1.61
1	B	323	C	O3'-P	34.63	2.13	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2321	U	O3'-P	34.33	2.12	1.61
1	B	316	C	O3'-P	34.30	2.12	1.61
1	B	322	A	O3'-P	34.23	2.12	1.61
1	B	1996	C	O3'-P	33.83	2.11	1.61
1	B	2374	C	O3'-P	33.67	2.11	1.61
1	B	1150	C	O3'-P	33.39	2.11	1.61
1	B	110	G	O3'-P	33.15	2.10	1.61
1	B	119	A	C3'-O3'	33.15	1.91	1.42
1	B	2092	U	O3'-P	32.98	2.10	1.61
1	B	120	U	P-O5'	32.83	2.25	1.59
1	B	2556	C	C3'-O3'	32.52	1.91	1.42
1	B	1159	U	O3'-P	32.10	2.09	1.61
1	B	1944	U	C3'-O3'	32.05	2.06	1.42
1	B	1667	G	O3'-P	32.00	2.09	1.61
1	B	239	C	O3'-P	31.61	2.08	1.61
1	B	602	A	P-O5'	31.58	2.07	1.59
1	B	43	G	O3'-P	31.46	2.08	1.61
1	B	1197	G	C3'-O3'	31.20	1.89	1.42
1	B	60	G	P-O5'	31.04	2.06	1.59
1	B	1934	C	P-O5'	31.02	2.06	1.59
1	B	601	C	O3'-P	30.93	2.07	1.61
1	B	1598	A	O3'-P	30.86	2.07	1.61
1	B	1197	G	O3'-P	30.84	2.07	1.61
1	B	1857	G	P-O5'	30.79	2.06	1.59
1	B	59	U	O3'-P	30.74	2.07	1.61
1	B	2111	U	C1'-N1	30.69	1.94	1.48
1	B	1856	U	O3'-P	30.45	2.06	1.61
1	B	856	G	O3'-P	30.31	2.06	1.61
1	B	2521	C	O3'-P	30.23	2.06	1.61
1	B	2556	C	O3'-P	29.88	2.06	1.61
1	B	1932	A	P-O5'	29.83	2.04	1.59
1	B	1853	A	O3'-P	29.53	2.05	1.61
1	B	1130	U	O3'-P	29.49	2.05	1.61
1	B	669	G	P-O5'	29.44	2.04	1.59
1	B	324	A	C3'-O3'	29.39	2.00	1.42
1	B	1425	G	O3'-P	29.38	2.05	1.61
1	B	113	U	C1'-N1	29.36	1.92	1.48
1	B	668	A	O3'-P	29.31	2.05	1.61
1	B	1856	U	P-O5'	29.25	2.03	1.59
1	B	972	A	P-O5'	29.14	2.03	1.59
1	B	1854	A	O5'-C5'	29.09	1.86	1.42
1	B	320	A	O3'-P	29.00	2.04	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1609	A	P-O5'	28.99	2.03	1.59
1	B	857	G	P-O5'	28.98	2.03	1.59
1	B	2517	C	O3'-P	28.90	2.04	1.61
1	B	1608	A	O3'-P	28.82	2.04	1.61
1	B	2846	G	O5'-C5'	28.75	1.85	1.42
1	B	1294	U	O3'-P	28.73	2.04	1.61
1	B	294	A	P-O5'	28.72	2.02	1.59
1	B	971	G	O3'-P	28.68	2.04	1.61
1	B	1197	G	C1'-N9	28.62	1.90	1.48
1	B	28	A	O3'-P	28.54	2.04	1.61
1	B	1988	G	O3'-P	28.52	2.04	1.61
1	B	498	G	O3'-P	28.45	2.03	1.61
1	B	940	G	O3'-P	28.42	2.03	1.61
1	B	1931	U	O3'-P	28.25	2.03	1.61
1	B	1348	C	P-O5'	28.21	2.02	1.59
1	B	1347	A	O3'-P	28.17	2.03	1.61
1	B	2849	U	P-O5'	28.05	2.01	1.59
1	B	1854	A	P-O5'	27.89	2.01	1.59
1	B	52	A	P-O5'	27.86	2.01	1.59
1	B	2112	G	O3'-P	27.81	2.02	1.61
1	B	764	A	O3'-P	27.81	2.02	1.61
1	B	67	U	O3'-P	27.73	2.02	1.61
1	B	498	G	C3'-O3'	27.69	1.83	1.42
1	B	15	G	P-O5'	27.65	2.01	1.59
1	B	1429	G	O3'-P	27.60	2.02	1.61
1	B	926	G	O3'-P	27.59	2.02	1.61
1	B	762	U	C3'-O3'	27.46	1.83	1.42
1	B	97	C	O3'-P	27.43	2.02	1.61
1	B	320	A	C3'-O3'	27.36	1.83	1.42
1	B	2070	A	O3'-P	27.34	2.02	1.61
1	B	2050	C	O3'-P	27.32	2.02	1.61
1	B	60	G	O3'-P	27.32	2.02	1.61
1	B	1927	A	C3'-O3'	27.31	1.96	1.42
1	B	1853	A	C3'-O3'	27.21	1.82	1.42
1	B	1327	A	P-O5'	27.20	2.00	1.59
1	B	113	U	P-O5'	27.19	2.00	1.59
1	B	764	A	C3'-O3'	27.18	1.82	1.42
1	B	793	A	O3'-P	27.00	2.01	1.61
1	B	2505	G	O3'-P	26.95	2.01	1.61
1	B	941	A	P-O5'	26.92	2.00	1.59
1	B	99	U	C1'-N1	26.84	1.88	1.48
1	B	2751	G	P-O5'	26.84	2.00	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1971	U	C5'-C4'	26.82	1.91	1.51
1	B	75	G	P-O5'	26.81	2.13	1.59
1	B	1425	G	C3'-O3'	26.79	1.82	1.42
1	B	2076	U	O3'-P	26.79	2.01	1.61
1	B	1866	A	P-O5'	26.75	1.99	1.59
1	B	2322	A	P-O5'	26.56	2.12	1.59
1	B	1856	U	C5'-C4'	26.56	1.91	1.51
1	B	1856	U	C3'-O3'	26.55	1.81	1.42
1	B	2113	U	P-O5'	26.50	1.99	1.59
1	B	416	U	O3'-P	26.48	2.00	1.61
1	B	52	A	O3'-P	26.46	2.00	1.61
1	B	2406	A	O3'-P	26.43	2.00	1.61
1	B	70	G	O3'-P	26.42	2.00	1.61
1	B	1933	G	O3'-P	26.37	2.00	1.61
1	B	60	G	C5'-C4'	26.30	1.90	1.51
1	B	75	G	C5'-C4'	26.29	2.03	1.51
1	B	1934	C	C5'-C4'	26.28	1.90	1.51
1	B	53	A	P-O5'	26.23	1.99	1.59
1	B	1971	U	P-O5'	26.21	1.99	1.59
1	B	275	C	O3'-P	26.21	2.00	1.61
1	B	111	A	P-O5'	26.20	1.99	1.59
1	B	2382	G	P-O5'	26.19	1.99	1.59
1	B	2750	A	O3'-P	26.13	2.00	1.61
1	B	1195	G	O3'-P	26.02	2.00	1.61
1	B	320	A	P-O5'	25.96	1.98	1.59
1	B	319	G	O3'-P	25.94	2.00	1.61
1	B	2381	A	O3'-P	25.92	2.00	1.61
1	B	1855	U	O3'-P	25.87	2.00	1.61
1	B	1989	G	P-O5'	25.81	1.98	1.59
1	B	1853	A	C1'-N9	25.77	1.86	1.48
1	B	2055	C	O3'-P	25.77	1.99	1.61
1	B	2752	C	O3'-P	25.73	1.99	1.61
1	B	1865	U	O3'-P	25.69	1.99	1.61
1	B	73	A	O3'-P	25.62	1.99	1.61
1	B	46	G	P-O5'	25.61	1.98	1.59
1	B	73	A	P-O5'	25.60	1.98	1.59
1	B	2345	G	P-O5'	25.58	1.98	1.59
1	B	1672	A	C1'-N9	25.51	1.86	1.48
1	B	11	C	O3'-P	25.47	1.99	1.61
1	B	2068	U	P-O5'	25.47	1.98	1.59
1	B	60	G	C3'-O3'	25.46	1.80	1.42
1	B	98	G	P-O5'	25.46	1.98	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2848	G	O3'-P	25.45	1.99	1.61
1	B	324	A	P-O5'	25.44	2.10	1.59
1	B	2453	A	P-O5'	25.41	1.97	1.59
1	B	1934	C	O5'-C5'	25.40	1.80	1.42
1	B	71	A	P-O5'	25.35	1.97	1.59
1	B	51	G	P-O5'	25.33	1.97	1.59
1	B	1970	A	O3'-P	25.29	1.99	1.61
1	B	98	G	O3'-P	25.28	1.99	1.61
1	B	1620	G	O3'-P	25.19	1.99	1.61
1	B	1326	U	O3'-P	25.18	1.99	1.61
1	B	45	G	O3'-P	25.17	1.99	1.61
1	B	685	A	P-O5'	25.09	1.97	1.59
1	B	28	A	P-O5'	25.05	1.97	1.59
1	B	2452	C	O3'-P	25.05	1.98	1.61
1	B	1047	G	O3'-P	24.99	1.98	1.61
1	B	119	A	P-O5'	24.96	1.97	1.59
1	B	1048	A	P-O5'	24.92	1.97	1.59
1	B	1130	U	C3'-O3'	24.82	1.79	1.42
1	B	1928	A	P-O5'	24.81	1.97	1.59
1	B	118	A	O3'-P	24.80	1.98	1.61
1	B	2112	G	C3'-O3'	24.80	1.79	1.42
1	B	113	U	C5'-C4'	24.79	1.88	1.51
1	B	1131	G	P-O5'	24.72	1.96	1.59
1	B	1196	C	P-O5'	24.72	1.96	1.59
1	B	483	A	C3'-O3'	24.71	1.79	1.42
1	B	684	G	O3'-P	24.67	1.98	1.61
1	B	1149	G	O3'-P	24.60	1.98	1.61
1	B	369	U	P-O5'	24.52	1.96	1.59
1	B	1943	U	P-O5'	24.51	1.96	1.59
1	B	2067	G	O3'-P	24.49	1.97	1.61
1	B	280	U	O3'-P	24.48	1.97	1.61
1	B	1853	A	P-O5'	24.48	1.96	1.59
1	B	2062	A	O3'-P	24.46	1.97	1.61
1	B	2060	A	O3'-P	24.45	1.97	1.61
1	B	857	G	C5'-C4'	24.41	1.87	1.51
1	B	1971	U	O3'-P	24.41	1.97	1.61
1	B	2068	U	C3'-O3'	24.40	1.78	1.42
1	B	2902	C	O3'-P	24.35	1.97	1.61
1	B	94	A	O3'-P	24.32	1.97	1.61
1	B	802	A	O3'-P	24.32	1.97	1.61
1	B	860	U	O3'-P	24.28	1.97	1.61
1	B	1943	U	O3'-P	24.27	1.97	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	27	G	O3'-P	24.26	1.97	1.61
1	B	300	A	O3'-P	24.25	1.97	1.61
1	B	1854	A	C5'-C4'	24.24	1.87	1.51
1	B	2009	A	O3'-P	24.23	1.97	1.61
1	B	452	G	C1'-N9	24.22	1.84	1.48
1	B	1970	A	P-O5'	24.16	1.96	1.59
1	B	2903	U	P-O5'	24.14	1.96	1.59
1	B	1451	C	P-O5'	24.12	1.96	1.59
1	B	1996	C	C3'-O3'	24.10	1.78	1.42
1	B	324	A	C5'-C4'	24.09	1.99	1.51
1	B	51	G	O3'-P	24.07	1.97	1.61
1	B	2454	G	P-O5'	24.05	1.95	1.59
1	B	428	A	O3'-P	24.03	1.97	1.61
1	B	585	G	O3'-P	24.01	1.97	1.61
1	B	1857	G	C5'-C4'	24.00	1.87	1.51
1	B	972	A	C5'-C4'	24.00	1.87	1.51
1	B	72	U	O3'-P	23.99	1.97	1.61
1	B	915	C	O3'-P	23.99	1.97	1.61
1	B	1770	G	O3'-P	23.93	1.97	1.61
1	B	26	G	P-O5'	23.90	1.95	1.59
1	B	1663	G	O3'-P	23.82	1.96	1.61
1	B	99	U	P-O5'	23.78	1.95	1.59
1	B	25	U	O3'-P	23.77	1.96	1.61
1	B	669	G	O3'-P	23.72	1.96	1.61
1	B	276	U	P-O5'	23.71	1.95	1.59
1	B	14	A	O3'-P	23.68	1.96	1.61
1	B	1050	A	O3'-P	23.68	1.96	1.61
1	B	1566	A	O3'-P	23.66	1.96	1.61
1	B	449	A	P-O5'	23.63	1.95	1.59
1	B	2068	U	C5'-C4'	23.60	1.86	1.51
1	B	1626	A	C3'-O3'	23.60	1.77	1.42
1	B	670	A	P-O5'	23.59	1.95	1.59
1	B	2752	C	C3'-O3'	23.58	1.77	1.42
1	B	119	A	C5'-C4'	23.56	1.86	1.51
1	B	215	G	P-O5'	23.54	1.95	1.59
1	B	2846	G	C1'-N9	23.54	1.83	1.48
1	B	2040	G	O3'-P	23.52	1.96	1.61
1	B	1610	A	O3'-P	23.49	1.96	1.61
1	B	1664	A	P-O5'	23.47	1.95	1.59
1	B	1942	C	C5'-C4'	23.47	1.86	1.51
1	B	1791	A	C1'-N9	23.45	1.83	1.48
1	B	1499	C	O3'-P	23.40	1.96	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2155	U	O3'-P	23.40	1.96	1.61
1	B	1673	G	O3'-P	23.40	1.96	1.61
1	B	190	A	O3'-P	23.37	1.96	1.61
1	B	15	G	O5'-C5'	23.32	1.77	1.42
1	B	1933	G	C3'-O3'	23.32	1.77	1.42
1	B	1466	U	P-O5'	23.31	1.94	1.59
1	B	1254	A	P-O5'	23.26	1.94	1.59
1	B	431	U	P-O5'	23.24	1.94	1.59
1	B	430	A	O3'-P	23.23	1.96	1.61
1	B	1990	C	P-O5'	23.21	1.94	1.59
1	B	2453	A	O3'-P	23.21	1.96	1.61
1	B	1428	C	P-O5'	23.21	1.94	1.59
1	B	775	G	O3'-P	23.17	1.96	1.61
1	B	988	A	P-O5'	23.15	1.94	1.59
1	B	1626	A	O3'-P	23.14	1.95	1.61
1	B	608	A	P-O5'	23.13	1.94	1.59
1	B	94	A	P-O5'	23.12	1.94	1.59
1	B	1428	C	O3'-P	23.11	1.95	1.61
1	B	11	C	C3'-O3'	23.10	1.76	1.42
1	B	321	U	P-O5'	23.09	1.94	1.59
1	B	2156	G	P-O5'	23.08	1.94	1.59
1	B	1609	A	O3'-P	23.08	1.95	1.61
1	B	1952	A	P-O5'	23.05	1.94	1.59
1	B	2469	A	O3'-P	23.04	1.95	1.61
1	B	368	A	O3'-P	23.03	1.95	1.61
1	B	499	U	P-O5'	23.00	1.94	1.59
1	B	2042	A	P-O5'	22.99	1.94	1.59
1	B	2450	A	P-O5'	22.94	1.94	1.59
1	B	1426	G	P-O5'	22.93	1.94	1.59
1	B	1465	G	O3'-P	22.92	1.95	1.61
1	B	762	U	P-O5'	22.91	1.94	1.59
1	B	1608	A	C3'-O3'	22.91	1.76	1.42
1	B	51	G	C5'-C4'	22.89	1.85	1.51
1	B	1668	A	P-O5'	22.88	1.94	1.59
1	B	449	A	O3'-P	22.87	1.95	1.61
1	B	804	A	P-O5'	22.87	1.94	1.59
1	B	457	A	P-O5'	22.86	1.94	1.59
1	B	483	A	O3'-P	22.86	1.95	1.61
1	B	602	A	C5'-C4'	22.84	1.85	1.51
1	B	73	A	C5'-C4'	22.83	1.85	1.51
1	B	112	U	O3'-P	22.83	1.95	1.61
1	B	776	G	P-O5'	22.80	1.94	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1029	A	P-O5'	22.79	1.94	1.59
1	B	1128	G	C1'-N9	22.78	1.82	1.48
1	B	2112	G	P-O5'	22.74	1.93	1.59
1	B	2653	U	C1'-N1	22.73	1.82	1.48
1	B	1028	A	O3'-P	22.73	1.95	1.61
1	B	607	U	O3'-P	22.72	1.95	1.61
1	B	1609	A	C5'-C4'	22.70	1.85	1.51
1	B	27	G	P-O5'	22.70	1.93	1.59
1	B	168	G	O3'-P	22.70	1.95	1.61
1	B	92	U	P-O5'	22.69	1.93	1.59
1	B	1969	A	O3'-P	22.68	1.95	1.61
1	B	2849	U	C5'-C4'	22.63	1.85	1.51
1	B	2051	A	P-O5'	22.62	1.93	1.59
1	B	1942	C	O3'-P	22.59	1.95	1.61
1	B	60	G	O5'-C5'	22.58	1.76	1.42
1	B	1828	G	O3'-P	22.56	1.95	1.61
1	B	1567	G	C1'-N9	22.54	1.81	1.48
1	B	916	G	P-O5'	22.52	1.93	1.59
1	B	587	C	P-O5'	22.52	1.93	1.59
1	B	1989	G	O3'-P	22.50	1.94	1.61
1	B	1888	G	P-O5'	22.49	1.93	1.59
1	B	2846	G	P-O5'	22.48	1.93	1.59
1	B	1253	A	O3'-P	22.43	1.94	1.61
1	B	1932	A	C5'-C4'	22.42	1.84	1.51
1	B	525	U	O3'-P	22.42	1.94	1.61
1	B	674	G	P-O5'	22.41	1.93	1.59
1	B	1951	U	O3'-P	22.41	1.94	1.61
1	B	2041	U	P-O5'	22.40	1.93	1.59
1	B	478	A	O3'-P	22.39	1.94	1.61
1	B	2871	U	P-O5'	22.38	1.93	1.59
1	B	1452	G	P-O5'	22.37	1.93	1.59
1	B	1288	G	O3'-P	22.34	1.94	1.61
1	B	2617	U	O3'-P	22.34	1.94	1.61
1	B	602	A	O5'-C5'	22.29	1.75	1.42
1	B	1125	G	P-O5'	22.25	1.93	1.59
1	B	240	C	P-O5'	22.23	1.93	1.59
1	B	1284	A	P-O5'	22.23	1.93	1.59
1	B	1855	U	P-O5'	22.23	1.93	1.59
1	B	573	U	O3'-P	22.20	1.94	1.61
1	B	93	G	O3'-P	22.20	1.94	1.61
1	B	1528	A	O3'-P	22.17	1.94	1.61
1	B	2449	5MU	O3'-P	22.16	1.94	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1126	A	P-O5'	22.15	1.93	1.59
1	B	972	A	O3'-P	22.14	1.94	1.61
1	B	1124	G	O3'-P	22.14	1.94	1.61
1	B	942	G	P-O5'	22.14	1.93	1.59
1	B	501	A	O3'-P	22.14	1.94	1.61
1	B	189	G	P-O5'	22.14	1.93	1.59
1	B	588	U	C3'-O3'	22.13	1.76	1.43
1	B	1568	G	P-O5'	22.11	1.93	1.59
1	B	1610	A	P-O5'	22.11	1.93	1.59
1	B	214	G	O3'-P	22.10	1.94	1.61
1	B	525	U	P-O5'	22.08	1.92	1.59
1	B	203	A	O3'-P	22.07	1.94	1.61
1	B	1528	A	C1'-N9	22.05	1.81	1.48
1	B	586	A	P-O5'	22.03	1.92	1.59
1	B	2425	A	P-O5'	22.02	1.92	1.59
1	B	2406	A	C3'-O3'	22.00	1.75	1.42
1	B	524	G	O3'-P	21.99	1.94	1.61
1	B	103	A	P-O5'	21.96	1.92	1.59
1	B	2156	G	O3'-P	21.93	1.94	1.61
1	B	761	A	P-O5'	21.91	1.92	1.59
1	B	1673	G	C3'-O3'	21.90	1.75	1.42
1	B	973	A	P-O5'	21.88	1.92	1.59
1	B	1668	A	O3'-P	21.88	1.94	1.61
1	B	1680	U	P-O5'	21.87	1.92	1.59
1	B	861	A	P-O5'	21.86	1.92	1.59
1	B	2685	G	P-O5'	21.82	1.92	1.59
1	B	847	U	O3'-P	21.81	1.93	1.61
1	B	1573	G	P-O5'	21.80	1.92	1.59
1	B	653	U	P-O5'	21.79	1.92	1.59
1	B	101	A	O3'-P	21.76	1.93	1.61
1	B	699	A	P-O5'	21.73	1.92	1.59
1	B	526	A	P-O5'	21.73	1.92	1.59
1	B	75	G	O5'-C5'	21.72	1.86	1.43
1	B	1991	U	O3'-P	21.72	1.93	1.61
1	B	511	U	O3'-P	21.71	1.93	1.61
1	B	901	C	O3'-P	21.68	1.93	1.61
1	B	73	A	C3'-O3'	21.68	1.74	1.42
1	B	1941	C	P-O5'	21.67	1.92	1.59
1	B	470	A	C1'-N9	21.66	1.80	1.48
1	B	570	G	O3'-P	21.66	1.93	1.61
1	B	1283	G	O3'-P	21.65	1.93	1.61
1	B	585	G	C3'-O3'	21.64	1.74	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1542	U	O3'-P	21.64	1.93	1.61
1	B	207	A	P-O5'	21.63	1.92	1.59
1	B	1451	C	O3'-P	21.63	1.93	1.61
1	B	102	U	P-O5'	21.60	1.92	1.59
1	B	1567	G	P-O5'	21.60	1.92	1.59
1	B	760	G	O3'-P	21.59	1.93	1.61
1	B	91	A	O3'-P	21.59	1.93	1.61
1	B	571	U	P-O5'	21.59	1.92	1.59
1	B	300	A	C3'-O3'	21.59	1.74	1.42
1	B	1116	G	O3'-P	21.56	1.93	1.61
1	B	941	A	O3'-P	21.56	1.93	1.61
1	B	2060	A	C1'-N9	21.55	1.80	1.48
1	B	498	G	P-O5'	21.54	1.92	1.59
1	B	478	A	P-O5'	21.52	1.92	1.59
1	B	212	G	O3'-P	21.51	1.93	1.61
1	B	2406	A	P-O5'	21.51	1.92	1.59
1	B	2848	G	C3'-O3'	21.50	1.74	1.42
1	B	456	C	O3'-P	21.50	1.93	1.61
1	B	26	G	O3'-P	21.49	1.93	1.61
1	B	2220	U	O3'-P	21.48	1.93	1.61
1	B	683	U	O3'-P	21.48	1.93	1.61
1	B	1328	A	P-O5'	21.48	1.92	1.59
1	B	15	G	C5'-C4'	21.47	1.83	1.51
1	B	845	A	O3'-P	21.47	1.93	1.61
1	B	428	A	P-O5'	21.47	1.92	1.59
1	B	270	A	C3'-O3'	21.46	1.74	1.42
1	B	761	A	O3'-P	21.46	1.93	1.61
1	B	1125	G	O3'-P	21.46	1.93	1.61
1	B	2012	G	O3'-P	21.45	1.93	1.61
1	B	1272	A	P-O5'	21.44	1.92	1.59
1	B	684	G	P-O5'	21.43	1.91	1.59
1	B	188	G	O3'-P	21.43	1.93	1.61
1	B	94	A	C3'-O3'	21.42	1.74	1.42
1	B	64	A	O3'-P	21.41	1.93	1.61
1	B	574	A	P-O5'	21.41	1.91	1.59
1	B	50	U	O3'-P	21.40	1.93	1.61
1	B	987	C	O3'-P	21.37	1.93	1.61
1	B	217	A	P-O5'	21.37	1.91	1.59
1	B	1302	A	C3'-O3'	21.36	1.74	1.42
1	B	2887	A	O3'-P	21.35	1.93	1.61
1	B	2394	C	O3'-P	21.34	1.93	1.61
1	B	1931	U	C3'-O3'	21.34	1.75	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1049	C	O3'-P	21.33	1.93	1.61
1	B	1887	C	O3'-P	21.31	1.93	1.61
1	B	275	C	C3'-O3'	21.29	1.74	1.42
1	B	2505	G	C1'-N9	21.29	1.79	1.48
1	B	89	A	O3'-P	21.27	1.93	1.61
1	B	1848	A	P-O5'	21.26	1.91	1.59
1	B	916	G	O3'-P	21.25	1.93	1.61
1	B	92	U	O3'-P	21.23	1.93	1.61
1	B	2483	C	O3'-P	21.20	1.93	1.61
1	B	846	U	P-O5'	21.20	1.91	1.59
1	B	2870	C	O3'-P	21.19	1.93	1.61
1	B	861	A	C5'-C4'	21.19	1.83	1.51
1	B	916	G	C3'-O3'	21.19	1.74	1.42
1	B	1942	C	P-O5'	21.18	1.91	1.59
1	B	432	A	P-O5'	21.17	1.91	1.59
1	B	2497	A	C3'-O3'	21.17	1.74	1.42
1	B	2690	U	P-O5'	21.16	1.91	1.59
1	B	2405	G	P-O5'	21.15	1.91	1.59
1	B	28	A	C3'-O3'	21.15	1.73	1.42
1	B	1450	G	O3'-P	21.15	1.92	1.61
1	B	51	G	C3'-O3'	21.13	1.73	1.42
1	B	2062	A	C3'-O3'	21.12	1.73	1.42
1	B	1791	A	P-O5'	21.12	1.91	1.59
1	B	457	A	C1'-N9	21.11	1.79	1.48
1	B	219	A	P-O5'	21.11	1.91	1.59
1	B	2057	G	O3'-P	21.09	1.92	1.61
1	B	2157	G	P-O5'	21.09	1.91	1.59
1	B	699	A	O3'-P	21.09	1.92	1.61
1	B	1241	A	P-O5'	21.09	1.91	1.59
1	B	322	A	P-O5'	21.08	1.91	1.59
1	B	586	A	O3'-P	21.07	1.92	1.61
1	B	2382	G	O3'-P	21.07	1.92	1.61
1	B	2468	A	P-O5'	21.06	1.91	1.59
1	B	1445	G	O3'-P	21.06	1.92	1.61
1	B	2060	A	C3'-O3'	21.06	1.73	1.42
1	B	477	A	O3'-P	21.03	1.92	1.61
1	B	1932	A	O5'-C5'	21.03	1.74	1.42
1	B	917	A	O3'-P	21.03	1.92	1.61
1	B	514	A	O3'-P	21.03	1.92	1.61
1	B	811	U	C1'-N1	21.00	1.79	1.48
1	B	857	G	O5'-C5'	21.00	1.74	1.42
1	B	71	A	C5'-C4'	20.98	1.82	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2041	U	O3'-P	20.98	1.92	1.61
1	B	183	C	O3'-P	20.96	1.92	1.61
1	B	1327	A	C5'-C4'	20.96	1.82	1.51
1	B	1598	A	C3'-O3'	20.95	1.73	1.42
1	B	46	G	O3'-P	20.93	1.92	1.61
1	B	2405	G	O3'-P	20.92	1.92	1.61
1	B	1679	A	O3'-P	20.92	1.92	1.61
1	B	9	G	C1'-N9	20.91	1.79	1.48
1	B	735	A	O3'-P	20.90	1.92	1.61
1	B	989	G	P-O5'	20.90	1.91	1.59
1	B	1855	U	C3'-O3'	20.90	1.73	1.42
1	B	1884	G	O3'-P	20.90	1.92	1.61
1	B	479	A	P-O5'	20.87	1.91	1.59
1	B	2424	C	O3'-P	20.87	1.92	1.61
1	B	1135	C	P-O5'	20.87	1.91	1.59
1	B	331	C	P-O5'	20.86	1.91	1.59
1	B	1739	A	O3'-P	20.86	1.92	1.61
1	B	1936	A	O3'-P	20.85	1.92	1.61
1	B	1857	G	O3'-P	20.85	1.92	1.61
1	B	47	C	P-O5'	20.85	1.91	1.59
1	B	234	U	O3'-P	20.82	1.92	1.61
1	B	2713	U	O3'-P	20.82	1.92	1.61
1	B	1133	A	P-O5'	20.81	1.91	1.59
1	B	1327	A	O3'-P	20.81	1.92	1.61
1	B	213	A	P-O5'	20.78	1.91	1.59
1	B	1857	G	O5'-C5'	20.78	1.73	1.42
1	B	1870	C	P-O5'	20.78	1.91	1.59
1	B	297	G	O3'-P	20.77	1.92	1.61
1	B	448	U	O3'-P	20.77	1.92	1.61
1	B	262	A	O3'-P	20.77	1.92	1.61
1	B	206	U	O3'-P	20.76	1.92	1.61
1	B	2718	G	O3'-P	20.76	1.92	1.61
1	B	2114	A	P-O5'	20.75	1.90	1.59
1	B	2820	A	O3'-P	20.75	1.92	1.61
1	B	2689	U	O3'-P	20.75	1.92	1.61
1	B	669	G	C5'-C4'	20.74	1.82	1.51
1	B	300	A	P-O5'	20.73	1.90	1.59
1	B	299	A	P-O5'	20.73	1.90	1.59
1	B	130	C	O3'-P	20.71	1.92	1.61
1	B	256	A	O3'-P	20.70	1.92	1.61
1	B	1943	U	C3'-O3'	20.70	1.73	1.42
1	B	1302	A	P-O5'	20.69	1.90	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1029	A	O3'-P	20.68	1.92	1.61
1	B	36	G	O3'-P	20.66	1.92	1.61
1	B	99	U	C5'-C4'	20.66	1.82	1.51
1	B	793	A	C3'-O3'	20.64	1.73	1.42
1	B	53	A	O3'-P	20.64	1.92	1.61
1	B	298	G	P-O5'	20.64	1.90	1.59
1	B	14	A	C3'-O3'	20.64	1.73	1.42
1	B	1028	A	P-O5'	20.64	1.90	1.59
1	B	1240	U	O3'-P	20.64	1.92	1.61
1	B	2404	U	O3'-P	20.63	1.92	1.61
1	B	432	A	O3'-P	20.63	1.92	1.61
1	B	1586	A	O3'-P	20.62	1.92	1.61
1	B	1992	G	P-O5'	20.62	1.90	1.59
1	B	2055	C	P-O5'	20.62	1.90	1.59
1	B	1626	A	P-O5'	20.60	1.90	1.59
1	B	1847	A	O3'-P	20.59	1.92	1.61
1	B	1740	G	P-O5'	20.58	1.90	1.59
1	B	274	C	O3'-P	20.58	1.92	1.61
1	B	1312	U	P-O5'	20.58	1.90	1.59
1	B	2879	A	O3'-P	20.57	1.92	1.61
1	B	9	G	O3'-P	20.57	1.92	1.61
1	B	1427	A	O3'-P	20.57	1.92	1.61
1	B	1467	U	P-O5'	20.55	1.90	1.59
1	B	2719	G	P-O5'	20.55	1.90	1.59
1	B	1255	U	O3'-P	20.54	1.92	1.61
1	B	264	C	P-O5'	20.54	1.90	1.59
1	B	255	A	P-O5'	20.53	1.90	1.59
1	B	2062	A	P-O5'	20.52	1.90	1.59
1	B	1790	C	O3'-P	20.52	1.92	1.61
1	B	1857	G	C1'-N9	20.51	1.78	1.48
1	B	2561	U	O3'-P	20.51	1.92	1.61
1	B	2104	C	O3'-P	20.50	1.92	1.61
1	B	476	G	O3'-P	20.49	1.91	1.61
1	B	2846	G	C5'-C4'	20.49	1.81	1.51
1	B	1326	U	C3'-O3'	20.49	1.72	1.42
1	B	706	A	O3'-P	20.48	1.91	1.61
1	B	1428	C	C3'-O3'	20.48	1.72	1.42
1	B	270	A	O3'-P	20.46	1.91	1.61
1	B	478	A	C3'-O3'	20.46	1.72	1.42
1	B	427	U	O3'-P	20.45	1.91	1.61
1	B	1696	G	P-O5'	20.44	1.90	1.59
1	B	294	A	C5'-C4'	20.43	1.81	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	637	A	O3'-P	20.43	1.91	1.61
1	B	1572	A	O3'-P	20.41	1.91	1.61
1	B	2726	A	O3'-P	20.41	1.91	1.61
1	B	2136	G	P-OP2	20.41	1.89	1.49
1	B	525	U	C3'-O3'	20.41	1.72	1.42
1	B	1546	G	O3'-P	20.41	1.91	1.61
1	B	2850	A	O3'-P	20.40	1.91	1.61
1	B	2684	U	O3'-P	20.39	1.91	1.61
1	B	2061	G	P-O5'	20.36	1.90	1.59
1	B	1852	U	O3'-P	20.36	1.91	1.61
1	B	803	U	O3'-P	20.35	1.91	1.61
1	B	1439	A	O3'-P	20.35	1.91	1.61
1	B	429	A	P-O5'	20.33	2.00	1.59
1	B	1752	C	P-O5'	20.33	1.90	1.59
1	B	896	A	O3'-P	20.33	1.91	1.61
1	B	988	A	O3'-P	20.31	1.91	1.61
1	B	1858	A	P-O5'	20.30	1.90	1.59
1	B	2821	A	P-O5'	20.30	1.90	1.59
1	B	2447	G	O3'-P	20.29	1.91	1.61
1	B	1271	G	O3'-P	20.29	1.91	1.61
1	B	113	U	C3'-O3'	20.26	1.72	1.42
1	B	1573	G	O3'-P	20.25	1.91	1.61
1	B	450	G	P-O5'	20.20	1.90	1.59
1	B	859	G	O3'-P	20.20	1.91	1.61
1	B	1326	U	P-O5'	20.19	1.90	1.59
1	B	477	A	P-O5'	20.18	1.90	1.59
1	B	788	A	P-O5'	20.18	1.90	1.59
1	B	1466	U	O3'-P	20.18	1.91	1.61
1	B	1681	G	C1'-N9	20.18	1.78	1.48
1	B	1674	G	C1'-N9	20.17	1.78	1.48
1	B	2110	G	O3'-P	20.17	1.91	1.61
1	B	566	U	P-O5'	20.16	1.90	1.59
1	B	2382	G	C3'-O3'	20.16	1.72	1.42
1	B	1938	A	P-O5'	20.15	1.90	1.59
1	B	1467	U	O3'-P	20.15	1.91	1.61
1	B	330	A	O3'-P	20.14	1.91	1.61
1	B	2021	C	P-O5'	20.14	1.90	1.59
1	B	275	C	P-O5'	20.12	1.90	1.59
1	B	2469	A	P-O5'	20.11	1.90	1.59
1	B	912	C	O3'-P	20.11	1.91	1.61
1	B	1866	A	C5'-C4'	20.10	1.81	1.51
1	B	90	U	P-O5'	20.09	1.89	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	913	U	P-O5'	20.09	1.89	1.59
1	B	673	C	O3'-P	20.07	1.91	1.61
1	B	12	U	P-O5'	20.05	1.89	1.59
1	B	787	C	O3'-P	20.05	1.91	1.61
1	B	1934	C	O3'-P	20.04	1.91	1.61
1	B	502	A	P-O5'	20.04	1.89	1.59
1	B	1566	A	C3'-O3'	20.04	1.72	1.42
1	B	2297	A	O3'-P	20.03	1.91	1.61
1	B	102	U	C1'-N1	20.03	1.78	1.48
1	B	116	C	O3'-P	20.03	1.91	1.61
1	B	1828	G	C3'-O3'	20.02	1.72	1.42
1	B	1311	G	O3'-P	20.01	1.91	1.61
1	B	276	U	O3'-P	20.00	1.91	1.61
1	B	92	U	C5'-C4'	20.00	1.81	1.51
1	B	1856	U	O5'-C5'	20.00	1.72	1.42
1	B	1940	U	O3'-P	19.99	1.91	1.61
1	B	112	U	C3'-O3'	19.99	1.72	1.42
1	B	1526	C	C1'-N1	19.98	1.78	1.48
1	B	1047	G	P-O5'	19.98	1.89	1.59
1	B	1468	U	P-O5'	19.98	1.89	1.59
1	B	1751	U	O3'-P	19.98	1.91	1.61
1	B	298	G	O3'-P	19.97	1.91	1.61
1	B	1885	A	P-O5'	19.97	1.89	1.59
1	B	2012	G	C1'-N9	19.94	1.77	1.48
1	B	2209	G	O3'-P	19.92	1.91	1.61
1	B	1645	G	O3'-P	19.92	1.91	1.61
1	B	2512	C	O3'-P	19.92	1.91	1.61
1	B	2298	A	P-O5'	19.92	1.89	1.59
1	B	609	A	O3'-P	19.91	1.91	1.61
1	B	2454	G	O3'-P	19.91	1.91	1.61
1	B	588	U	P-O5'	19.90	1.89	1.59
1	B	431	U	O3'-P	19.90	1.91	1.61
1	B	2448	A	P-O5'	19.88	1.89	1.59
1	B	2466	C	O3'-P	19.88	1.91	1.61
1	B	651	G	P-O5'	19.88	1.89	1.59
1	B	1131	G	C1'-N9	19.86	1.77	1.48
1	B	1803	A	P-O5'	19.86	1.89	1.59
1	B	410	G	O3'-P	19.86	1.91	1.61
1	B	10	A	P-O5'	19.85	1.89	1.59
1	B	2554	U	P-O5'	19.85	1.89	1.59
1	B	918	A	P-O5'	19.84	1.89	1.59
1	B	2873	A	P-O5'	19.84	1.89	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2111	U	O3'-P	19.84	1.91	1.61
1	B	321	U	O3'-P	19.84	1.91	1.61
1	B	1546	G	P-O5'	19.84	1.89	1.59
1	B	2421	G	O3'-P	19.84	1.91	1.61
1	B	52	A	C3'-O3'	19.84	1.72	1.42
1	B	1625	C	O3'-P	19.83	1.91	1.61
1	B	1610	A	C3'-O3'	19.82	1.71	1.42
1	B	268	C	O3'-P	19.81	1.90	1.61
1	B	1427	A	P-O5'	19.81	1.89	1.59
1	B	1866	A	O3'-P	19.81	1.90	1.61
1	B	2375	G	P-O5'	19.81	1.89	1.59
1	B	2684	U	P-O5'	19.80	1.89	1.59
1	B	2751	G	C1'-N9	19.80	1.77	1.48
1	B	2439	A	P-O5'	19.79	1.89	1.59
1	B	269	C	P-O5'	19.77	1.89	1.59
1	B	836	G	P-O5'	19.76	1.89	1.59
1	B	2591	C	O3'-P	19.76	1.90	1.61
1	B	2113	U	O3'-P	19.75	1.90	1.61
1	B	1019	U	O3'-P	19.75	1.90	1.61
1	B	1941	C	O3'-P	19.74	1.90	1.61
1	B	500	G	C1'-N9	19.74	1.77	1.48
1	B	650	C	O3'-P	19.74	1.90	1.61
1	B	2753	A	P-O5'	19.73	1.89	1.59
1	B	1891	G	C1'-N9	19.72	1.77	1.48
1	B	1328	A	C1'-N9	19.71	1.77	1.48
1	B	73	A	O5'-C5'	19.69	1.72	1.42
1	B	1934	C	C1'-N1	19.68	1.77	1.48
1	B	168	G	C3'-O3'	19.67	1.71	1.42
1	B	2562	U	P-O5'	19.67	1.89	1.59
1	B	1936	A	P-O5'	19.65	1.89	1.59
1	B	1789	A	O3'-P	19.64	1.90	1.61
1	B	933	A	O3'-P	19.64	1.90	1.61
1	B	1327	A	C3'-O3'	19.63	1.71	1.42
1	B	1301	A	O3'-P	19.63	1.90	1.61
1	B	277	G	P-O5'	19.62	1.89	1.59
1	B	1941	C	C1'-N1	19.62	1.77	1.48
1	B	697	G	O3'-P	19.62	1.90	1.61
1	B	1050	A	P-O5'	19.61	1.89	1.59
1	B	861	A	O3'-P	19.61	1.90	1.61
1	B	2751	G	C5'-C4'	19.60	1.80	1.51
1	B	802	A	C3'-O3'	19.59	1.72	1.43
1	B	1609	A	O5'-C5'	19.59	1.71	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	735	A	P-O5'	19.59	1.89	1.59
1	B	1134	A	O3'-P	19.58	1.90	1.61
1	B	324	A	O5'-C5'	19.57	1.82	1.43
1	B	1026	G	C1'-N9	19.57	1.77	1.48
1	B	972	A	O5'-C5'	19.56	1.71	1.42
1	B	1933	G	C1'-N9	19.55	1.77	1.48
1	B	2629	U	P-O5'	19.55	1.89	1.59
1	B	2844	G	P-O5'	19.55	1.89	1.59
1	B	405	U	P-O5'	19.54	1.89	1.59
1	B	1133	A	O3'-P	19.54	1.90	1.61
1	B	2210	U	P-O5'	19.54	1.89	1.59
1	B	2111	U	P-O5'	19.54	1.89	1.59
1	B	2453	A	C5'-C4'	19.53	1.80	1.51
1	B	1543	G	P-O5'	19.52	1.89	1.59
1	B	1854	A	O3'-P	19.51	1.90	1.61
1	B	1024	G	P-O5'	19.51	1.89	1.59
1	B	627	A	P-O5'	19.51	1.89	1.59
1	B	568	U	P-O5'	19.50	1.89	1.59
1	B	28	A	C5'-C4'	19.50	1.80	1.51
1	B	698	C	O3'-P	19.50	1.90	1.61
1	B	320	A	C1'-N9	19.46	1.77	1.48
1	B	497	A	O3'-P	19.45	1.90	1.61
1	B	652	U	P-O5'	19.45	1.89	1.59
1	B	2724	U	P-O5'	19.45	1.89	1.59
1	B	2013	A	P-O5'	19.45	1.89	1.59
1	B	111	A	O3'-P	19.44	1.90	1.61
1	B	2226	C	C1'-N1	19.43	1.77	1.48
1	B	310	A	O3'-P	19.42	1.90	1.61
1	B	684	G	C3'-O3'	19.42	1.71	1.42
1	B	52	A	C5'-C4'	19.42	1.80	1.51
1	B	1933	G	P-O5'	19.40	1.88	1.59
1	B	1451	C	C5'-C4'	19.40	1.80	1.51
1	B	2467	C	O3'-P	19.39	1.90	1.61
1	B	2810	A	P-O5'	19.38	1.88	1.59
1	B	1108	U	O3'-P	19.37	1.90	1.61
1	B	112	U	C5'-C4'	19.36	1.80	1.51
1	B	118	A	P-O5'	19.34	1.88	1.59
1	B	2504	U	P-O5'	19.33	1.88	1.59
1	B	324	A	C1'-N9	19.33	1.86	1.48
1	B	1859	U	O3'-P	19.33	1.90	1.61
1	B	1970	A	C3'-O3'	19.32	1.71	1.42
1	B	2556	C	C1'-N1	19.31	1.77	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	496	G	O3'-P	19.30	1.90	1.61
1	B	565	C	O3'-P	19.30	1.90	1.61
1	B	1546	G	C1'-N9	19.30	1.76	1.48
1	B	1853	A	C5'-C4'	19.29	1.80	1.51
1	B	64	A	P-O5'	19.28	1.88	1.59
1	B	320	A	C5'-C4'	19.27	1.80	1.51
1	B	264	C	O3'-P	19.27	1.90	1.61
1	B	2809	A	O3'-P	19.26	1.90	1.61
1	B	2422	C	P-O5'	19.25	1.88	1.59
1	B	845	A	P-O5'	19.25	1.88	1.59
1	B	112	U	P-O5'	19.24	1.88	1.59
1	B	84	A	O3'-P	19.23	1.90	1.61
1	B	1382	G	O3'-P	19.22	1.90	1.61
1	B	2020	A	P-O5'	19.22	1.88	1.59
1	B	1753	G	P-O5'	19.22	1.88	1.59
1	B	2011	U	O3'-P	19.21	1.90	1.61
1	B	1321	A	P-O5'	19.21	1.88	1.59
1	B	574	A	C1'-N9	19.20	1.76	1.48
1	B	2452	C	C3'-O3'	19.20	1.71	1.42
1	B	1128	G	O3'-P	19.20	1.90	1.61
1	B	585	G	C1'-N9	19.19	1.76	1.48
1	B	2426	A	P-O5'	19.18	1.88	1.59
1	B	8	C	O3'-P	19.18	1.90	1.61
1	B	2872	A	O3'-P	19.17	1.90	1.61
1	B	2571	U	O3'-P	19.17	1.90	1.61
1	B	1134	A	P-O5'	19.16	1.88	1.59
1	B	2335	A	O3'-P	19.16	1.89	1.61
1	B	299	A	O3'-P	19.15	1.89	1.61
1	B	1579	A	P-O5'	19.15	1.88	1.59
1	B	2628	C	O3'-P	19.15	1.89	1.61
1	B	254	G	O3'-P	19.15	1.89	1.61
1	B	1325	U	O3'-P	19.15	1.89	1.61
1	B	117	G	P-O5'	19.14	1.88	1.59
1	B	2468	A	O3'-P	19.12	1.89	1.61
1	B	567	U	P-O5'	19.12	1.88	1.59
1	B	1270	C	O3'-P	19.11	1.89	1.61
1	B	98	G	C3'-O3'	19.11	1.70	1.42
1	B	2504	U	O3'-P	19.10	1.89	1.61
1	B	566	U	O3'-P	19.10	1.89	1.61
1	B	1970	A	C5'-C4'	19.10	1.79	1.51
1	B	931	U	P-O5'	19.10	1.88	1.59
1	B	2750	A	C3'-O3'	19.10	1.70	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	602	A	O3'-P	19.09	1.89	1.61
1	B	1331	G	O3'-P	19.09	1.89	1.61
1	B	2167	U	P-O5'	19.08	1.88	1.59
1	B	2110	G	C1'-N9	19.08	1.76	1.48
1	B	294	A	O5'-C5'	19.08	1.71	1.42
1	B	803	U	P-O5'	19.07	1.88	1.59
1	B	706	A	P-O5'	19.05	1.88	1.59
1	B	1545	A	O3'-P	19.05	1.89	1.61
1	B	1935	G	O3'-P	19.05	1.89	1.61
1	B	2012	G	P-O5'	19.04	1.88	1.59
1	B	1944	U	P-O5'	19.04	1.97	1.59
1	B	1426	G	O3'-P	19.03	1.89	1.61
1	B	1926	U	P-O5'	19.02	1.88	1.59
1	B	2425	A	O3'-P	19.02	1.89	1.61
1	B	1791	A	O3'-P	19.01	1.89	1.61
1	B	1348	C	C5'-C4'	19.01	1.79	1.51
1	B	570	G	P-O5'	19.00	1.88	1.59
1	B	1695	G	O3'-P	19.00	1.89	1.61
1	B	263	G	P-O5'	18.99	1.88	1.59
1	B	2723	C	O3'-P	18.99	1.89	1.61
1	B	569	U	P-O5'	18.98	1.88	1.59
1	B	449	A	C3'-O3'	18.98	1.70	1.42
1	B	878	A	P-O5'	18.98	1.88	1.59
1	B	2020	A	O3'-P	18.98	1.89	1.61
1	B	1142	A	O3'-P	18.96	1.89	1.61
1	B	1567	G	O3'-P	18.95	1.89	1.61
1	B	1814	G	P-O5'	18.95	1.88	1.59
1	B	1925	C	P-O5'	18.95	1.88	1.59
1	B	776	G	O3'-P	18.95	1.89	1.61
1	B	801	G	C1'-N9	18.94	1.76	1.48
1	B	565	C	P-O5'	18.94	1.88	1.59
1	B	674	G	O3'-P	18.92	1.89	1.61
1	B	1869	G	O3'-P	18.91	1.89	1.61
1	B	2751	G	O5'-C5'	18.91	1.70	1.42
1	B	568	U	O3'-P	18.91	1.89	1.61
1	B	1427	A	C3'-O3'	18.91	1.70	1.42
1	B	2606	C	O3'-P	18.91	1.89	1.61
1	B	257	C	P-O5'	18.90	1.88	1.59
1	B	674	G	C5'-C4'	18.89	1.79	1.51
1	B	9	G	P-O5'	18.89	1.88	1.59
1	B	669	G	O5'-C5'	18.89	1.70	1.42
1	B	2849	U	O5'-C5'	18.89	1.70	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1045	C	P-O5'	18.89	1.88	1.59
1	B	1935	G	C1'-N9	18.88	1.76	1.48
1	B	2503	A	O3'-P	18.88	1.89	1.61
1	B	1679	A	P-O5'	18.87	1.88	1.59
1	B	1740	G	O3'-P	18.87	1.89	1.61
1	B	1419	A	O3'-P	18.86	1.89	1.61
1	B	2607	G	P-O5'	18.85	1.88	1.59
1	B	1578	U	O3'-P	18.84	1.89	1.61
1	B	368	A	C3'-O3'	18.82	1.70	1.42
1	B	1522	A	O3'-P	18.81	1.89	1.61
1	B	2869	G	C1'-N9	18.81	1.76	1.48
1	B	1325	U	P-O5'	18.81	1.88	1.59
1	B	2361	G	P-O5'	18.81	1.88	1.59
1	B	1646	C	P-O5'	18.80	1.88	1.59
1	B	460	A	O3'-P	18.80	1.89	1.61
1	B	2726	A	P-O5'	18.80	1.88	1.59
1	B	801	G	O3'-P	18.79	1.89	1.61
1	B	1968	G	P-O5'	18.78	1.88	1.59
1	B	453	A	P-O5'	18.77	1.88	1.59
1	B	2054	A	O3'-P	18.77	1.89	1.61
1	B	14	A	P-O5'	18.77	1.88	1.59
1	B	1937	A	P-O5'	18.76	1.87	1.59
1	B	1924	C	O3'-P	18.76	1.89	1.61
1	B	465	G	C1'-N9	18.75	1.76	1.48
1	B	1834	U	O3'-P	18.75	1.89	1.61
1	B	1888	G	C5'-C4'	18.74	1.79	1.51
1	B	2843	G	O3'-P	18.74	1.89	1.61
1	B	725	G	C1'-N9	18.73	1.76	1.48
1	B	1613	G	C1'-N9	18.73	1.76	1.48
1	B	2627	G	P-O5'	18.72	1.87	1.59
1	B	1940	U	P-O5'	18.72	1.87	1.59
1	B	1613	G	P-O5'	18.71	1.87	1.59
1	B	254	G	P-O5'	18.70	1.87	1.59
1	B	821	A	P-O5'	18.70	1.87	1.59
1	B	2361	G	C1'-N9	18.69	1.75	1.48
1	B	941	A	C5'-C4'	18.69	1.79	1.51
1	B	404	A	O3'-P	18.69	1.89	1.61
1	B	1132	U	O3'-P	18.69	1.89	1.61
1	B	1155	A	O3'-P	18.69	1.89	1.61
1	B	411	G	P-O5'	18.68	1.87	1.59
1	B	652	U	O3'-P	18.67	1.89	1.61
1	B	675	A	P-O5'	18.67	1.87	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	586	A	C3'-O3'	18.67	1.70	1.42
1	B	279	A	P-O5'	18.67	1.87	1.59
1	B	975	A	O3'-P	18.67	1.89	1.61
1	B	1813	G	O3'-P	18.66	1.89	1.61
1	B	369	U	O3'-P	18.66	1.89	1.61
1	B	2683	C	O3'-P	18.66	1.89	1.61
1	B	497	A	P-O5'	18.65	1.87	1.59
1	B	1475	G	O3'-P	18.64	1.89	1.61
1	B	847	U	P-O5'	18.64	1.87	1.59
1	B	253	C	O3'-P	18.64	1.89	1.61
1	B	1967	C	O3'-P	18.63	1.89	1.61
1	B	1129	A	P-O5'	18.63	1.87	1.59
1	B	1752	C	O3'-P	18.61	1.89	1.61
1	B	877	A	O3'-P	18.61	1.89	1.61
1	B	1723	G	O3'-P	18.60	1.89	1.61
1	B	1992	G	O3'-P	18.59	1.89	1.61
1	B	2424	C	P-O5'	18.58	1.87	1.59
1	B	180	G	P-O5'	18.58	1.87	1.59
1	B	930	G	O3'-P	18.58	1.89	1.61
1	B	1942	C	C3'-O3'	18.58	1.70	1.42
1	B	1419	A	C3'-O3'	18.57	1.70	1.42
1	B	1695	G	C1'-N9	18.57	1.75	1.48
1	B	269	C	C1'-N1	18.56	1.76	1.48
1	B	1185	G	O3'-P	18.56	1.89	1.61
1	B	2451	A	O3'-P	18.56	1.89	1.61
1	B	1802	A	O3'-P	18.55	1.89	1.61
1	B	370	G	P-O5'	18.55	1.87	1.59
1	B	46	G	C1'-N9	18.55	1.75	1.48
1	B	734	A	O3'-P	18.55	1.89	1.61
1	B	2555	U	P-O5'	18.54	1.87	1.59
1	B	148	U	O3'-P	18.54	1.89	1.61
1	B	1874	C	O3'-P	18.54	1.89	1.61
1	B	229	C	C1'-N1	18.54	1.76	1.48
1	B	263	G	O3'-P	18.53	1.89	1.61
1	B	1322	A	O3'-P	18.53	1.89	1.61
1	B	1301	A	P-O5'	18.53	1.87	1.59
1	B	1022	G	C1'-N9	18.52	1.75	1.48
1	B	1799	G	O3'-P	18.52	1.89	1.61
1	B	2541	A	O3'-P	18.52	1.89	1.61
1	B	2562	U	O3'-P	18.51	1.89	1.61
1	B	1242	U	P-O5'	18.51	1.87	1.59
1	B	1327	A	O5'-C5'	18.50	1.70	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	118	A	C1'-N9	18.49	1.75	1.48
1	B	331	C	O3'-P	18.49	1.88	1.61
1	B	1938	A	C1'-N9	18.49	1.75	1.48
1	B	1196	C	O3'-P	18.48	1.88	1.61
1	B	537	G	C1'-N9	18.47	1.75	1.48
1	B	1415	U	O3'-P	18.47	1.88	1.61
1	B	1186	G	P-O5'	18.47	1.87	1.59
1	B	2103	C	O3'-P	18.47	1.88	1.61
1	B	489	G	C1'-N9	18.47	1.75	1.48
1	B	1009	A	O3'-P	18.46	1.88	1.61
1	B	845	A	C3'-O3'	18.46	1.69	1.42
1	B	2360	G	O3'-P	18.45	1.88	1.61
1	B	1800	C	P-O5'	18.45	1.87	1.59
1	B	2061	G	O3'-P	18.45	1.88	1.61
1	B	2365	G	P-O5'	18.44	1.87	1.59
1	B	2060	A	P-O5'	18.44	1.87	1.59
1	B	1197	G	P-O5'	18.43	1.87	1.59
1	B	498	G	C5'-C4'	18.43	1.78	1.51
1	B	2287	A	O3'-P	18.43	1.88	1.61
1	B	627	A	O3'-P	18.42	1.88	1.61
1	B	799	G	O3'-P	18.41	1.88	1.61
1	B	1311	G	P-O5'	18.41	1.87	1.59
1	B	1971	U	C3'-O3'	18.40	1.69	1.42
1	B	2382	G	C1'-N9	18.40	1.75	1.48
1	B	34	U	C1'-N1	18.40	1.76	1.48
1	B	2685	G	C1'-N9	18.39	1.75	1.48
1	B	538	A	O3'-P	18.37	1.88	1.61
1	B	1236	G	C1'-N9	18.36	1.75	1.48
1	B	1612	C	O3'-P	18.36	1.88	1.61
1	B	278	A	O3'-P	18.36	1.88	1.61
1	B	685	A	O3'-P	18.36	1.88	1.61
1	B	1855	U	C5'-C4'	18.36	1.78	1.51
1	B	2822	G	C1'-N9	18.36	1.75	1.48
1	B	900	A	P-O5'	18.35	1.87	1.59
1	B	277	G	C1'-N9	18.34	1.75	1.48
1	B	2058	A	P-O5'	18.34	1.87	1.59
1	B	149	A	P-O5'	18.32	1.87	1.59
1	B	651	G	O3'-P	18.32	1.88	1.61
1	B	1109	C	P-O5'	18.32	1.87	1.59
1	B	811	U	P-O5'	18.31	1.87	1.59
1	B	1697	G	C1'-N9	18.31	1.75	1.48
1	B	2021	C	O3'-P	18.30	1.88	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1358	G	C1'-N9	18.30	1.75	1.48
1	B	1510	G	O3'-P	18.30	1.88	1.61
1	B	2493	U	O3'-P	18.30	1.88	1.61
1	B	280	U	P-O5'	18.30	1.87	1.59
1	B	2180	U	O3'-P	18.29	1.88	1.61
1	B	2452	C	P-O5'	18.29	1.87	1.59
1	B	1950	G	O3'-P	18.29	1.88	1.61
1	B	2136	G	P-O5'	18.29	1.87	1.59
1	B	2752	C	P-O5'	18.28	1.87	1.59
1	B	2351	G	C1'-N9	18.28	1.75	1.48
1	B	279	A	O3'-P	18.28	1.88	1.61
1	B	2703	C	P-O5'	18.28	1.87	1.59
1	B	2317	A	O3'-P	18.27	1.88	1.61
1	B	2608	G	P-O5'	18.27	1.87	1.59
1	B	1647	U	P-O5'	18.27	1.87	1.59
1	B	653	U	O3'-P	18.25	1.88	1.61
1	B	11	C	C1'-N1	18.25	1.75	1.48
1	B	2713	U	C3'-O3'	18.25	1.69	1.42
1	B	626	A	O3'-P	18.25	1.88	1.61
1	B	1050	A	C3'-O3'	18.25	1.69	1.42
1	B	1309	G	C1'-N9	18.24	1.75	1.48
1	B	2553	G	O3'-P	18.24	1.88	1.61
1	B	332	A	P-O5'	18.24	1.87	1.59
1	B	483	A	P-O5'	18.24	1.87	1.59
1	B	2845	U	O3'-P	18.24	1.88	1.61
1	B	2423	U	P-O5'	18.24	1.87	1.59
1	B	2723	C	P-O5'	18.24	1.87	1.59
1	B	1274	A	P-O5'	18.23	1.87	1.59
1	B	1545	A	P-O5'	18.23	1.87	1.59
1	B	429	A	C5'-C4'	18.23	1.87	1.51
1	B	222	A	C1'-N9	18.22	1.75	1.48
1	B	1978	A	P-O5'	18.22	1.87	1.59
1	B	1022	G	P-O5'	18.22	1.87	1.59
1	B	1300	G	C1'-N9	18.22	1.75	1.48
1	B	2612	C	O3'-P	18.22	1.88	1.61
1	B	920	A	P-O5'	18.21	1.87	1.59
1	B	1468	U	O3'-P	18.20	1.88	1.61
1	B	2733	A	P-O5'	18.20	1.87	1.59
1	B	2022	U	P-O5'	18.20	1.87	1.59
1	B	1048	A	C5'-C4'	18.20	1.78	1.51
1	B	2607	G	C1'-N9	18.19	1.75	1.48
1	B	2332	C	O3'-P	18.18	1.88	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1044	C	O3'-P	18.18	1.88	1.61
1	B	1028	A	C3'-O3'	18.18	1.69	1.42
1	B	458	G	O3'-P	18.17	1.88	1.61
1	B	866	A	C1'-N9	18.17	1.75	1.48
1	B	1951	U	P-O5'	18.16	1.86	1.59
1	B	2281	A	O3'-P	18.16	1.88	1.61
1	B	2318	G	P-O5'	18.16	1.86	1.59
1	B	1720	U	C1'-N1	18.16	1.75	1.48
1	B	431	U	C5'-C4'	18.15	1.78	1.51
1	B	2722	G	O3'-P	18.15	1.88	1.61
1	B	374	A	P-O5'	18.14	1.86	1.59
1	B	859	G	C5'-C4'	18.14	1.78	1.51
1	B	458	G	C1'-N9	18.13	1.75	1.48
1	B	1652	A	P-O5'	18.12	1.86	1.59
1	B	2878	U	O3'-P	18.12	1.88	1.61
1	B	338	G	C1'-N9	18.11	1.75	1.48
1	B	1383	A	P-O5'	18.11	1.86	1.59
1	B	1521	G	O3'-P	18.11	1.88	1.61
1	B	2382	G	C5'-C4'	18.11	1.78	1.51
1	B	1641	A	P-O5'	18.10	1.86	1.59
1	B	1377	G	P-O5'	18.09	1.86	1.59
1	B	2287	A	P-O5'	18.09	1.86	1.59
1	B	103	A	C5'-C4'	18.08	1.78	1.51
1	B	564	C	O3'-P	18.08	1.88	1.61
1	B	2725	A	P-O5'	18.07	1.86	1.59
1	B	1681	G	O3'-P	18.07	1.88	1.61
1	B	2574	G	C1'-N9	18.06	1.75	1.48
1	B	603	A	P-O5'	18.06	1.86	1.59
1	B	2378	A	O3'-P	18.06	1.88	1.61
1	B	2644	G	C1'-N9	18.06	1.75	1.48
1	B	1213	A	P-O5'	18.05	1.86	1.59
1	B	1672	A	P-O5'	18.05	1.86	1.59
1	B	373	U	O3'-P	18.04	1.88	1.61
1	B	1476	U	P-O5'	18.02	1.86	1.59
1	B	1696	G	O3'-P	18.02	1.88	1.61
1	B	368	A	P-O5'	18.02	1.86	1.59
1	B	670	A	C1'-N9	18.02	1.75	1.48
1	B	990	A	P-O5'	18.02	1.86	1.59
1	B	1322	A	P-O5'	18.01	1.86	1.59
1	B	567	U	O3'-P	18.00	1.88	1.61
1	B	1470	A	O3'-P	18.00	1.88	1.61
1	B	2427	C	P-O5'	18.00	1.86	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1114	C	O3'-P	17.99	1.88	1.61
1	B	1023	U	O3'-P	17.99	1.88	1.61
1	B	2453	A	C3'-O3'	17.99	1.69	1.42
1	B	300	A	C5'-C4'	17.98	1.78	1.51
1	B	1241	A	O3'-P	17.97	1.88	1.61
1	B	728	G	O3'-P	17.97	1.88	1.61
1	B	1816	C	O3'-P	17.97	1.88	1.61
1	B	1376	C	O3'-P	17.96	1.88	1.61
1	B	1640	A	O3'-P	17.96	1.88	1.61
1	B	27	G	C3'-O3'	17.96	1.69	1.42
1	B	846	U	O3'-P	17.95	1.88	1.61
1	B	1445	G	P-O5'	17.95	1.86	1.59
1	B	2086	U	P-O5'	17.95	1.86	1.59
1	B	2346	A	O3'-P	17.95	1.88	1.61
1	B	1299	G	C1'-N9	17.94	1.74	1.48
1	B	2158	A	O3'-P	17.94	1.88	1.61
1	B	118	A	C3'-O3'	17.93	1.69	1.42
1	B	1570	A	P-O5'	17.93	1.86	1.59
1	B	1676	A	P-O5'	17.93	1.86	1.59
1	B	149	A	O3'-P	17.93	1.88	1.61
1	B	2626	C	P-O5'	17.93	1.86	1.59
1	B	914	G	C1'-N9	17.92	1.74	1.48
1	B	183	C	P-O5'	17.92	1.86	1.59
1	B	214	G	P-O5'	17.92	1.86	1.59
1	B	1523	U	P-O5'	17.91	1.86	1.59
1	B	1321	A	O3'-P	17.91	1.88	1.61
1	B	471	A	P-O5'	17.91	1.86	1.59
1	B	672	C	O3'-P	17.91	1.88	1.61
1	B	625	G	C1'-N9	17.90	1.74	1.48
1	B	1273	U	O3'-P	17.90	1.88	1.61
1	B	46	G	C5'-C4'	17.90	1.78	1.51
1	B	179	C	O3'-P	17.90	1.88	1.61
1	B	1962	C	P-O5'	17.89	1.86	1.59
1	B	2125	G	C1'-N9	17.88	1.74	1.48
1	B	100	U	P-O5'	17.88	1.86	1.59
1	B	2625	G	O3'-P	17.87	1.88	1.61
1	B	1565	C	O3'-P	17.87	1.88	1.61
1	B	328	U	O3'-P	17.87	1.88	1.61
1	B	2505	G	C3'-O3'	17.87	1.69	1.42
1	B	2333	A	P-O5'	17.86	1.86	1.59
1	B	805	G	C1'-N9	17.86	1.74	1.48
1	B	1869	G	C1'-N9	17.84	1.74	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	32	C	O3'-P	17.84	1.88	1.61
1	B	2467	C	P-O5'	17.84	1.86	1.59
1	B	1324	G	O3'-P	17.84	1.88	1.61
1	B	48	G	P-O5'	17.84	1.86	1.59
1	B	776	G	C5'-C4'	17.82	1.77	1.51
1	B	1969	A	P-O5'	17.81	1.86	1.59
1	B	1847	A	C5'-C4'	17.80	1.77	1.51
1	B	203	A	P-O5'	17.80	1.86	1.59
1	B	1516	G	O3'-P	17.80	1.87	1.61
1	B	1968	G	C1'-N9	17.79	1.74	1.48
1	B	1514	G	C1'-N9	17.79	1.74	1.48
1	B	975	A	P-O5'	17.79	1.86	1.59
1	B	800	A	P-O5'	17.79	1.86	1.59
1	B	1418	G	P-O5'	17.79	1.86	1.59
1	B	1886	U	P-O5'	17.79	1.86	1.59
1	B	1651	G	O3'-P	17.78	1.87	1.61
1	B	669	G	C3'-O3'	17.78	1.68	1.42
1	B	1528	A	P-O5'	17.78	1.86	1.59
1	B	1930	G	P-O5'	17.78	1.86	1.59
1	B	821	A	O3'-P	17.77	1.87	1.61
1	B	989	G	O3'-P	17.77	1.87	1.61
1	B	835	C	O3'-P	17.77	1.87	1.61
1	B	2124	G	O3'-P	17.77	1.87	1.61
1	B	1212	G	O3'-P	17.76	1.87	1.61
1	B	2012	G	C3'-O3'	17.76	1.68	1.42
1	B	2166	U	O3'-P	17.76	1.87	1.61
1	B	2734	A	P-O5'	17.76	1.86	1.59
1	B	449	A	C5'-C4'	17.75	1.77	1.51
1	B	626	A	P-O5'	17.75	1.86	1.59
1	B	1790	C	P-O5'	17.75	1.86	1.59
1	B	1023	U	P-O5'	17.74	1.86	1.59
1	B	2869	G	P-O5'	17.74	1.86	1.59
1	B	1028	A	C5'-C4'	17.74	1.77	1.51
1	B	1032	A	P-O5'	17.74	1.86	1.59
1	B	2210	U	O3'-P	17.74	1.87	1.61
1	B	2608	G	O3'-P	17.74	1.87	1.61
1	B	2018	G	C1'-N9	17.73	1.74	1.48
1	B	2903	U	O3'-P	17.73	1.87	1.61
1	B	2675	A	O3'-P	17.73	1.87	1.61
1	B	2042	A	O3'-P	17.73	1.87	1.61
1	B	2711	A	O3'-P	17.72	1.87	1.61
1	B	221	A	C1'-N9	17.72	1.74	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	329	G	P-O5'	17.72	1.86	1.59
1	B	1115	G	P-O5'	17.72	1.86	1.59
1	B	2613	U	P-O5'	17.71	1.86	1.59
1	B	1043	C	O3'-P	17.71	1.87	1.61
1	B	2607	G	O3'-P	17.71	1.87	1.61
1	B	1606	C	O3'-P	17.71	1.87	1.61
1	B	1848	A	C5'-C4'	17.71	1.77	1.51
1	B	72	U	C3'-O3'	17.71	1.68	1.42
1	B	2451	A	P-O5'	17.70	1.86	1.59
1	B	2645	G	P-O5'	17.70	1.86	1.59
1	B	2335	A	P-O5'	17.70	1.86	1.59
1	B	47	C	O3'-P	17.69	1.87	1.61
1	B	1348	C	O5'-C5'	17.69	1.69	1.42
1	B	412	A	P-O5'	17.69	1.86	1.59
1	B	1020	A	P-O5'	17.68	1.86	1.59
1	B	2733	A	O3'-P	17.68	1.87	1.61
1	B	1569	A	O3'-P	17.68	1.87	1.61
1	B	2042	A	C5'-C4'	17.68	1.77	1.51
1	B	27	G	C5'-C4'	17.67	1.77	1.51
1	B	2844	G	O3'-P	17.67	1.87	1.61
1	B	412	A	O3'-P	17.66	1.87	1.61
1	B	218	A	O3'-P	17.66	1.87	1.61
1	B	2035	G	O3'-P	17.66	1.87	1.61
1	B	2583	G	C1'-N9	17.66	1.74	1.48
1	B	1678	A	O3'-P	17.66	1.87	1.61
1	B	278	A	P-O5'	17.65	1.86	1.59
1	B	705	A	O3'-P	17.65	1.87	1.61
1	B	2125	G	P-O5'	17.65	1.86	1.59
1	B	809	G	O3'-P	17.65	1.87	1.61
1	B	1298	C	O3'-P	17.65	1.87	1.61
1	B	277	G	O3'-P	17.64	1.87	1.61
1	B	2626	C	O3'-P	17.64	1.87	1.61
1	B	942	G	C1'-N9	17.63	1.74	1.48
1	B	587	C	O3'-P	17.63	1.87	1.61
1	B	1235	G	P-O5'	17.63	1.86	1.59
1	B	2431	U	P-O5'	17.63	1.86	1.59
1	B	1697	G	P-O5'	17.62	1.86	1.59
1	B	1273	U	P-O5'	17.62	1.86	1.59
1	B	1939	5MU	O3'-P	17.62	1.87	1.61
1	B	1516	G	C1'-N9	17.62	1.74	1.48
1	B	1248	G	C1'-N9	17.61	1.74	1.48
1	B	1774	C	O3'-P	17.61	1.87	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2319	G	C1'-N9	17.61	1.74	1.48
1	B	13	A	O3'-P	17.61	1.87	1.61
1	B	844	A	O3'-P	17.61	1.87	1.61
1	B	1384	A	O3'-P	17.60	1.87	1.61
1	B	2766	A	P-O5'	17.60	1.86	1.59
1	B	569	U	O3'-P	17.60	1.87	1.61
1	B	1044	C	P-O5'	17.60	1.86	1.59
1	B	368	A	C1'-N9	17.59	1.74	1.48
1	B	1885	A	O3'-P	17.59	1.87	1.61
1	B	619	G	C1'-N9	17.58	1.74	1.48
1	B	2597	G	C1'-N9	17.58	1.74	1.48
1	B	1252	G	O3'-P	17.57	1.87	1.61
1	B	2211	A	P-O5'	17.57	1.86	1.59
1	B	1934	C	C3'-O3'	17.57	1.68	1.42
1	B	801	G	P-O5'	17.57	1.86	1.59
1	B	1527	G	O3'-P	17.57	1.87	1.61
1	B	785	G	O3'-P	17.56	1.87	1.61
1	B	2422	C	O3'-P	17.56	1.87	1.61
1	B	2719	G	C1'-N9	17.56	1.74	1.48
1	B	2610	C	P-O5'	17.55	1.86	1.59
1	B	2426	A	O3'-P	17.55	1.87	1.61
1	B	270	A	P-O5'	17.55	1.86	1.59
1	B	2346	A	P-O5'	17.55	1.86	1.59
1	B	220	G	C1'-N9	17.54	1.74	1.48
1	B	1740	G	C1'-N9	17.54	1.74	1.48
1	B	2894	G	C1'-N9	17.54	1.74	1.48
1	B	1271	G	P-O5'	17.53	1.86	1.59
1	B	1012	U	O3'-P	17.53	1.87	1.61
1	B	1521	G	P-O5'	17.53	1.86	1.59
1	B	2766	A	O3'-P	17.53	1.87	1.61
1	B	2738	A	P-O5'	17.52	1.86	1.59
1	B	470	A	O3'-P	17.52	1.87	1.61
1	B	654	A	P-O5'	17.52	1.86	1.59
1	B	15	G	O3'-P	17.51	1.87	1.61
1	B	1875	G	P-O5'	17.51	1.86	1.59
1	B	1234	U	O3'-P	17.51	1.87	1.61
1	B	2059	A	O3'-P	17.51	1.87	1.61
1	B	1925	C	O3'-P	17.50	1.87	1.61
1	B	2859	G	C1'-N9	17.50	1.74	1.48
1	B	26	G	C5'-C4'	17.50	1.77	1.51
1	B	1608	A	P-O5'	17.50	1.85	1.59
1	B	1763	G	C1'-N9	17.50	1.74	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2282	G	P-O5'	17.50	1.85	1.59
1	B	99	U	O3'-P	17.49	1.87	1.61
1	B	2427	C	O3'-P	17.49	1.87	1.61
1	B	432	A	C3'-O3'	17.49	1.68	1.42
1	B	1046	A	O3'-P	17.49	1.87	1.61
1	B	1425	G	C1'-N9	17.49	1.74	1.48
1	B	1553	A	P-O5'	17.49	1.85	1.59
1	B	2834	G	P-O5'	17.49	1.85	1.59
1	B	1723	G	C1'-N9	17.48	1.74	1.48
1	B	1253	A	P-O5'	17.47	1.85	1.59
1	B	899	A	O3'-P	17.47	1.87	1.61
1	B	1288	G	C1'-N9	17.47	1.74	1.48
1	B	974	G	P-O5'	17.46	1.85	1.59
1	B	1977	A	O3'-P	17.46	1.87	1.61
1	B	2055	C	C1'-N1	17.46	1.74	1.48
1	B	2628	C	P-O5'	17.45	1.85	1.59
1	B	2566	A	O3'-P	17.45	1.87	1.61
1	B	2334	U	O3'-P	17.45	1.87	1.61
1	B	669	G	C1'-N9	17.45	1.74	1.48
1	B	469	G	C1'-N9	17.44	1.74	1.48
1	B	2645	G	C1'-N9	17.44	1.74	1.48
1	B	973	A	O3'-P	17.44	1.87	1.61
1	B	603	A	O3'-P	17.43	1.87	1.61
1	B	2433	A	P-O5'	17.43	1.85	1.59
1	B	2732	G	C1'-N9	17.43	1.74	1.48
1	B	53	A	C5'-C4'	17.43	1.77	1.51
1	B	242	G	P-O5'	17.43	1.85	1.59
1	B	2725	A	O3'-P	17.43	1.87	1.61
1	B	2019	A	O3'-P	17.42	1.87	1.61
1	B	1320	C	O3'-P	17.42	1.87	1.61
1	B	1669	A	O3'-P	17.42	1.87	1.61
1	B	60	G	C1'-N9	17.41	1.74	1.48
1	B	684	G	C5'-C4'	17.41	1.77	1.51
1	B	1680	U	C1'-N1	17.41	1.74	1.48
1	B	1883	U	O3'-P	17.41	1.87	1.61
1	B	1961	C	O3'-P	17.41	1.87	1.61
1	B	241	A	O3'-P	17.41	1.87	1.61
1	B	2405	G	C1'-N9	17.41	1.74	1.48
1	B	1475	G	P-O5'	17.41	1.85	1.59
1	B	2598	A	O3'-P	17.41	1.87	1.61
1	B	1580	A	P-O5'	17.40	1.85	1.59
1	B	1943	U	C5'-C4'	17.40	1.77	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	71	A	C1'-N9	17.40	1.74	1.48
1	B	1814	G	C1'-N9	17.40	1.74	1.48
1	B	2505	G	P-O5'	17.40	1.85	1.59
1	B	974	G	O3'-P	17.39	1.87	1.61
1	B	1954	G	C1'-N9	17.39	1.74	1.48
1	B	452	G	O3'-P	17.39	1.87	1.61
1	B	1377	G	C1'-N9	17.39	1.74	1.48
1	B	1223	G	C1'-N9	17.38	1.74	1.48
1	B	1469	A	P-O5'	17.38	1.85	1.59
1	B	465	G	P-O5'	17.38	1.85	1.59
1	B	1474	U	O3'-P	17.37	1.87	1.61
1	B	2741	A	O3'-P	17.37	1.87	1.61
1	B	1299	G	O3'-P	17.37	1.87	1.61
1	B	2118	U	P-O5'	17.37	1.85	1.59
1	B	2765	A	P-O5'	17.37	1.85	1.59
1	B	240	C	C1'-N1	17.37	1.74	1.48
1	B	919	U	O3'-P	17.37	1.87	1.61
1	B	328	U	P-O5'	17.36	1.85	1.59
1	B	1142	A	C1'-N9	17.36	1.74	1.48
1	B	620	G	O3'-P	17.35	1.87	1.61
1	B	1427	A	C1'-N9	17.35	1.74	1.48
1	B	2872	A	C1'-N9	17.35	1.74	1.48
1	B	2253	G	C1'-N9	17.34	1.74	1.48
1	B	2430	A	O3'-P	17.34	1.87	1.61
1	B	182	A	P-O5'	17.34	1.85	1.59
1	B	202	U	O3'-P	17.34	1.87	1.61
1	B	1639	C	O3'-P	17.34	1.87	1.61
1	B	1477	A	P-O5'	17.34	1.85	1.59
1	B	1254	A	C5'-C4'	17.34	1.77	1.51
1	B	221	A	O3'-P	17.33	1.87	1.61
1	B	2683	C	P-O5'	17.33	1.85	1.59
1	B	2016	U	O3'-P	17.33	1.87	1.61
1	B	343	C	O3'-P	17.32	1.87	1.61
1	B	504	A	P-O5'	17.32	1.85	1.59
1	B	506	G	C1'-N9	17.32	1.74	1.48
1	B	367	G	O3'-P	17.32	1.87	1.61
1	B	1570	A	O3'-P	17.32	1.87	1.61
1	B	1607	C	P-O5'	17.32	1.85	1.59
1	B	403	U	P-O5'	17.32	1.85	1.59
1	B	2638	G	C1'-N9	17.32	1.74	1.48
1	B	1272	A	O3'-P	17.31	1.87	1.61
1	B	2575	C	P-O5'	17.30	1.85	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	699	A	C1'-N9	17.30	1.74	1.48
1	B	480	A	P-O5'	17.30	1.85	1.59
1	B	620	G	C1'-N9	17.30	1.73	1.48
1	B	479	A	O3'-P	17.30	1.87	1.61
1	B	1378	A	P-O5'	17.30	1.85	1.59
1	B	2203	U	O3'-P	17.30	1.87	1.61
1	B	446	G	P-O5'	17.29	1.85	1.59
1	B	1010	A	P-O5'	17.29	1.85	1.59
1	B	1212	G	C1'-N9	17.29	1.73	1.48
1	B	1952	A	C1'-N9	17.29	1.73	1.48
1	B	2885	G	P-O5'	17.28	1.85	1.59
1	B	1510	G	C1'-N9	17.28	1.73	1.48
1	B	2428	G	P-O5'	17.27	1.85	1.59
1	B	1299	G	P-O5'	17.27	1.85	1.59
1	B	2572	A	P-O5'	17.27	1.85	1.59
1	B	2726	A	C3'-O3'	17.27	1.68	1.42
1	B	2542	A	P-O5'	17.27	1.85	1.59
1	B	1559	U	P-O5'	17.26	1.85	1.59
1	B	526	A	O3'-P	17.26	1.87	1.61
1	B	1654	A	O3'-P	17.26	1.87	1.61
1	B	242	G	C1'-N9	17.26	1.73	1.48
1	B	2834	G	C1'-N9	17.25	1.73	1.48
1	B	2126	A	P-O5'	17.25	1.85	1.59
1	B	2833	U	O3'-P	17.25	1.87	1.61
1	B	2472	G	C1'-N9	17.25	1.73	1.48
1	B	2788	C	O3'-P	17.25	1.87	1.61
1	B	508	A	P-O5'	17.25	1.85	1.59
1	B	50	U	C3'-O3'	17.24	1.68	1.42
1	B	216	A	O3'-P	17.23	1.86	1.61
1	B	2820	A	C3'-O3'	17.23	1.68	1.42
1	B	2597	G	O3'-P	17.22	1.86	1.61
1	B	372	G	C1'-N9	17.22	1.73	1.48
1	B	810	U	C1'-N1	17.21	1.74	1.48
1	B	637	A	P-O5'	17.21	1.85	1.59
1	B	1126	A	O3'-P	17.21	1.86	1.61
1	B	734	A	P-O5'	17.21	1.85	1.59
1	B	818	G	C1'-N9	17.21	1.73	1.48
1	B	221	A	P-O5'	17.21	1.85	1.59
1	B	400	G	C1'-N9	17.21	1.73	1.48
1	B	327	G	O3'-P	17.21	1.86	1.61
1	B	1516	G	P-O5'	17.21	1.85	1.59
1	B	2365	G	C1'-N9	17.20	1.73	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2394	C	C1'-N1	17.20	1.74	1.48
1	B	820	A	C1'-N9	17.20	1.73	1.48
1	B	1451	C	C1'-N1	17.20	1.74	1.48
1	B	1515	A	O3'-P	17.20	1.86	1.61
1	B	857	G	O3'-P	17.19	1.86	1.61
1	B	1209	U	O3'-P	17.19	1.86	1.61
1	B	802	A	P-O5'	17.18	1.85	1.59
1	B	2627	G	O3'-P	17.18	1.86	1.61
1	B	72	U	C1'-N1	17.18	1.74	1.48
1	B	2722	G	C1'-N9	17.18	1.73	1.48
1	B	222	A	O3'-P	17.17	1.86	1.61
1	B	810	U	O3'-P	17.17	1.86	1.61
1	B	322	A	C3'-O3'	17.16	1.67	1.42
1	B	1646	C	O3'-P	17.16	1.86	1.61
1	B	2454	G	C1'-N9	17.16	1.73	1.48
1	B	1187	G	P-O5'	17.16	1.85	1.59
1	B	704	G	P-O5'	17.15	1.85	1.59
1	B	2737	G	O3'-P	17.15	1.86	1.61
1	B	1455	G	O3'-P	17.14	1.86	1.61
1	B	1966	A	O3'-P	17.14	1.86	1.61
1	B	2333	A	O3'-P	17.14	1.86	1.61
1	B	1977	A	P-O5'	17.14	1.85	1.59
1	B	2423	U	O3'-P	17.14	1.86	1.61
1	B	213	A	O3'-P	17.13	1.86	1.61
1	B	1971	U	O5'-C5'	17.13	1.68	1.42
1	B	2777	G	C1'-N9	17.13	1.73	1.48
1	B	1653	G	C1'-N9	17.12	1.73	1.48
1	B	2779	U	P-O5'	17.12	1.85	1.59
1	B	686	U	P-O5'	17.12	1.85	1.59
1	B	2086	U	O3'-P	17.12	1.86	1.61
1	B	2165	C	P-O5'	17.12	1.85	1.59
1	B	346	A	O3'-P	17.11	1.86	1.61
1	B	1364	G	C1'-N9	17.11	1.73	1.48
1	B	500	G	O3'-P	17.11	1.86	1.61
1	B	670	A	C3'-O3'	17.11	1.67	1.42
1	B	528	A	P-O5'	17.11	1.85	1.59
1	B	1186	G	C1'-N9	17.11	1.73	1.48
1	B	1490	A	O3'-P	17.11	1.86	1.61
1	B	2144	G	C1'-N9	17.11	1.73	1.48
1	B	1444	G	O3'-P	17.10	1.86	1.61
1	B	703	U	O3'-P	17.10	1.86	1.61
1	B	506	G	P-O5'	17.10	1.85	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	705	A	P-O5'	17.10	1.85	1.59
1	B	2264	C	O3'-P	17.10	1.86	1.61
1	B	803	U	C1'-N1	17.09	1.74	1.48
1	B	800	A	O3'-P	17.09	1.86	1.61
1	B	101	A	C3'-O3'	17.09	1.67	1.42
1	B	1568	G	C5'-C4'	17.09	1.76	1.51
1	B	2702	G	C1'-N9	17.08	1.73	1.48
1	B	64	A	C1'-N9	17.07	1.73	1.48
1	B	455	C	P-O5'	17.07	1.85	1.59
1	B	1031	G	O3'-P	17.07	1.86	1.61
1	B	2135	A	P-O5'	17.06	1.85	1.59
1	B	2238	G	C1'-N9	17.06	1.73	1.48
1	B	2702	G	O3'-P	17.05	1.86	1.61
1	B	483	A	C5'-C4'	17.05	1.76	1.51
1	B	1210	G	P-O5'	17.05	1.85	1.59
1	B	1968	G	O3'-P	17.05	1.86	1.61
1	B	2609	U	O3'-P	17.05	1.86	1.61
1	B	2608	G	C1'-N9	17.05	1.73	1.48
1	B	2770	G	P-O5'	17.05	1.85	1.59
1	B	2286	G	C1'-N9	17.05	1.73	1.48
1	B	2334	U	P-O5'	17.05	1.85	1.59
1	B	220	G	O3'-P	17.04	1.86	1.61
1	B	2199	A	O3'-P	17.04	1.86	1.61
1	B	2035	G	C1'-N9	17.04	1.73	1.48
1	B	180	G	C1'-N9	17.03	1.73	1.48
1	B	2157	G	C1'-N9	17.03	1.73	1.48
1	B	570	G	C1'-N9	17.03	1.73	1.48
1	B	2751	G	O3'-P	17.03	1.86	1.61
1	B	269	C	O3'-P	17.02	1.86	1.61
1	B	1528	A	C3'-O3'	17.02	1.67	1.42
1	B	2764	A	O3'-P	17.02	1.86	1.61
1	B	2429	G	P-O5'	17.01	1.85	1.59
1	B	1249	U	P-O5'	17.01	1.85	1.59
1	B	1721	G	C1'-N9	17.01	1.73	1.48
1	B	1046	A	P-O5'	17.01	1.85	1.59
1	B	2872	A	P-O5'	17.01	1.85	1.59
1	B	1520	U	O3'-P	17.00	1.86	1.61
1	B	1537	G	C1'-N9	17.00	1.73	1.48
1	B	177	G	C1'-N9	17.00	1.73	1.48
1	B	1300	G	O3'-P	17.00	1.86	1.61
1	B	2741	A	P-O5'	17.00	1.85	1.59
1	B	1543	G	C1'-N9	17.00	1.73	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	804	A	C5'-C4'	16.99	1.76	1.51
1	B	1989	G	C1'-N9	16.99	1.73	1.48
1	B	2345	G	O3'-P	16.99	1.86	1.61
1	B	1855	U	C1'-N1	16.99	1.74	1.48
1	B	1255	U	P-O5'	16.99	1.85	1.59
1	B	785	G	P-O5'	16.98	1.85	1.59
1	B	1476	U	O3'-P	16.98	1.86	1.61
1	B	33	C	P-O5'	16.98	1.85	1.59
1	B	673	C	P-O5'	16.98	1.85	1.59
1	B	2732	G	O3'-P	16.98	1.86	1.61
1	B	83	A	P-O5'	16.97	1.85	1.59
1	B	124	G	P-O5'	16.97	1.85	1.59
1	B	233	A	O3'-P	16.97	1.86	1.61
1	B	369	U	C5'-C4'	16.97	1.76	1.51
1	B	1453	A	C1'-N9	16.97	1.73	1.48
1	B	625	G	P-O5'	16.96	1.85	1.59
1	B	784	G	P-O5'	16.96	1.85	1.59
1	B	1938	A	C5'-C4'	16.96	1.76	1.51
1	B	2319	G	P-O5'	16.96	1.85	1.59
1	B	676	A	C1'-N9	16.95	1.73	1.48
1	B	1154	G	C1'-N9	16.95	1.73	1.48
1	B	1040	A	P-O5'	16.95	1.85	1.59
1	B	2870	C	P-O5'	16.95	1.85	1.59
1	B	554	U	O3'-P	16.95	1.86	1.61
1	B	636	G	C1'-N9	16.95	1.73	1.48
1	B	344	A	P-O5'	16.94	1.85	1.59
1	B	1560	G	C1'-N9	16.94	1.73	1.48
1	B	2674	G	O3'-P	16.94	1.86	1.61
1	B	578	G	C1'-N9	16.94	1.73	1.48
1	B	1250	G	P-O5'	16.94	1.85	1.59
1	B	2724	U	O3'-P	16.94	1.86	1.61
1	B	180	G	O3'-P	16.93	1.86	1.61
1	B	994	C	O3'-P	16.93	1.86	1.61
1	B	530	G	C1'-N9	16.93	1.73	1.48
1	B	1989	G	C5'-C4'	16.93	1.76	1.51
1	B	995	C	P-O5'	16.93	1.85	1.59
1	B	1300	G	P-O5'	16.93	1.85	1.59
1	B	2166	U	P-O5'	16.93	1.85	1.59
1	B	2285	C	O3'-P	16.93	1.86	1.61
1	B	2598	A	P-O5'	16.93	1.85	1.59
1	B	2765	A	O3'-P	16.93	1.86	1.61
1	B	810	U	P-O5'	16.92	1.85	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1360	G	C1'-N9	16.92	1.73	1.48
1	B	1609	A	C3'-O3'	16.92	1.67	1.42
1	B	2762	C	O3'-P	16.92	1.86	1.61
1	B	56	A	O3'-P	16.92	1.86	1.61
1	B	361	G	O3'-P	16.91	1.86	1.61
1	B	1695	G	P-O5'	16.90	1.85	1.59
1	B	620	G	P-O5'	16.90	1.85	1.59
1	B	2868	A	P-O5'	16.89	1.85	1.59
1	B	2774	C	O3'-P	16.89	1.86	1.61
1	B	2763	G	P-O5'	16.89	1.85	1.59
1	B	183	C	C1'-N1	16.88	1.73	1.48
1	B	2129	C	O3'-P	16.88	1.86	1.61
1	B	677	A	O3'-P	16.88	1.86	1.61
1	B	1926	U	O3'-P	16.88	1.86	1.61
1	B	2253	G	O3'-P	16.88	1.86	1.61
1	B	2595	G	C1'-N9	16.88	1.73	1.48
1	B	586	A	C1'-N9	16.88	1.73	1.48
1	B	2563	U	P-O5'	16.88	1.85	1.59
1	B	482	A	P-O5'	16.88	1.85	1.59
1	B	2502	G	C1'-N9	16.87	1.73	1.48
1	B	505	A	O3'-P	16.87	1.86	1.61
1	B	1370	C	O3'-P	16.87	1.86	1.61
1	B	511	U	P-O5'	16.87	1.85	1.59
1	B	909	A	O3'-P	16.87	1.86	1.61
1	B	619	G	O3'-P	16.86	1.86	1.61
1	B	1801	A	P-O5'	16.86	1.85	1.59
1	B	2822	G	P-O5'	16.86	1.85	1.59
1	B	222	A	P-O5'	16.86	1.85	1.59
1	B	201	C	O3'-P	16.85	1.86	1.61
1	B	1248	G	P-O5'	16.85	1.85	1.59
1	B	1558	C	O3'-P	16.85	1.86	1.61
1	B	2286	G	O3'-P	16.84	1.86	1.61
1	B	51	G	O5'-C5'	16.84	1.67	1.42
1	B	846	U	C5'-C4'	16.84	1.76	1.51
1	B	2789	C	P-O5'	16.84	1.85	1.59
1	B	785	G	C1'-N9	16.84	1.73	1.48
1	B	2308	G	C1'-N9	16.84	1.73	1.48
1	B	2429	G	C1'-N9	16.83	1.73	1.48
1	B	1601	G	O3'-P	16.83	1.86	1.61
1	B	2903	U	C5'-C4'	16.83	1.76	1.51
1	B	564	C	P-O5'	16.83	1.84	1.59
1	B	1214	A	P-O5'	16.83	1.84	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1803	A	O3'-P	16.83	1.86	1.61
1	B	858	G	O3'-P	16.83	1.86	1.61
1	B	1417	C	P-O5'	16.82	1.84	1.59
1	B	464	U	O3'-P	16.82	1.86	1.61
1	B	2068	U	O5'-C5'	16.82	1.67	1.42
1	B	2125	G	O3'-P	16.82	1.86	1.61
1	B	2143	C	O3'-P	16.82	1.86	1.61
1	B	2283	C	P-O5'	16.82	1.84	1.59
1	B	1377	G	O3'-P	16.82	1.86	1.61
1	B	2202	U	O3'-P	16.81	1.86	1.61
1	B	2871	U	C5'-C4'	16.81	1.76	1.51
1	B	1310	G	O3'-P	16.81	1.86	1.61
1	B	836	G	C1'-N9	16.81	1.73	1.48
1	B	1452	G	C1'-N9	16.81	1.73	1.48
1	B	1714	U	P-O5'	16.81	1.84	1.59
1	B	2307	G	C1'-N9	16.81	1.73	1.48
1	B	512	G	P-O5'	16.81	1.84	1.59
1	B	482	A	O3'-P	16.81	1.86	1.61
1	B	2357	G	P-O5'	16.80	1.84	1.59
1	B	2686	G	C1'-N9	16.80	1.73	1.48
1	B	167	A	O3'-P	16.80	1.86	1.61
1	B	411	G	O3'-P	16.80	1.86	1.61
1	B	1027	A	O3'-P	16.80	1.86	1.61
1	B	1670	C	C1'-N1	16.80	1.73	1.48
1	B	1672	A	O3'-P	16.80	1.86	1.61
1	B	2627	G	C1'-N9	16.79	1.73	1.48
1	B	555	G	C1'-N9	16.79	1.73	1.48
1	B	1936	A	C1'-N9	16.79	1.73	1.48
1	B	2763	G	C1'-N9	16.79	1.73	1.48
1	B	1196	C	C1'-N1	16.79	1.73	1.48
1	B	2820	A	P-O5'	16.79	1.84	1.59
1	B	197	A	P-O5'	16.78	1.84	1.59
1	B	481	G	P-O5'	16.78	1.84	1.59
1	B	2553	G	C1'-N9	16.78	1.73	1.48
1	B	510	C	O3'-P	16.78	1.86	1.61
1	B	783	A	P-O5'	16.78	1.84	1.59
1	B	1132	U	P-O5'	16.78	1.84	1.59
1	B	1929	G	C1'-N9	16.78	1.73	1.48
1	B	2638	G	P-O5'	16.78	1.84	1.59
1	B	608	A	C1'-N9	16.78	1.73	1.48
1	B	1990	C	O3'-P	16.78	1.86	1.61
1	B	830	G	C1'-N9	16.77	1.73	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2740	A	O3'-P	16.77	1.86	1.61
1	B	459	U	P-O5'	16.77	1.84	1.59
1	B	1309	G	P-O5'	16.77	1.84	1.59
1	B	2857	G	C1'-N9	16.77	1.73	1.48
1	B	2389	G	C1'-N9	16.76	1.73	1.48
1	B	878	A	O3'-P	16.75	1.86	1.61
1	B	1416	G	P-O5'	16.75	1.84	1.59
1	B	2769	U	O3'-P	16.75	1.86	1.61
1	B	2645	G	O3'-P	16.75	1.86	1.61
1	B	1964	G	O3'-P	16.75	1.86	1.61
1	B	1552	A	O3'-P	16.74	1.86	1.61
1	B	1687	G	C1'-N9	16.74	1.73	1.48
1	B	789	A	P-O5'	16.74	1.84	1.59
1	B	2552	U	P-O5'	16.74	1.84	1.59
1	B	1640	A	P-O5'	16.74	1.84	1.59
1	B	733	G	C1'-N9	16.74	1.73	1.48
1	B	120	U	O3'-P	16.73	1.86	1.61
1	B	1655	A	P-O5'	16.73	1.84	1.59
1	B	1312	U	O3'-P	16.73	1.86	1.61
1	B	2574	G	O3'-P	16.73	1.86	1.61
1	B	386	G	C1'-N9	16.73	1.73	1.48
1	B	961	C	P-O5'	16.73	1.84	1.59
1	B	2637	U	O3'-P	16.73	1.86	1.61
1	B	2424	C	C1'-N1	16.72	1.73	1.48
1	B	2750	A	C1'-N9	16.72	1.73	1.48
1	B	2377	A	O3'-P	16.72	1.86	1.61
1	B	52	A	O5'-C5'	16.72	1.67	1.42
1	B	527	C	P-O5'	16.72	1.84	1.59
1	B	1839	G	C1'-N9	16.71	1.73	1.48
1	B	2172	U	P-O5'	16.71	1.84	1.59
1	B	2144	G	P-O5'	16.70	1.84	1.59
1	B	1254	A	O3'-P	16.70	1.86	1.61
1	B	1815	A	C1'-N9	16.70	1.73	1.48
1	B	2554	U	O3'-P	16.70	1.86	1.61
1	B	215	G	C5'-C4'	16.70	1.76	1.51
1	B	704	G	C1'-N9	16.70	1.73	1.48
1	B	1348	C	C1'-N1	16.70	1.73	1.48
1	B	2890	G	C1'-N9	16.70	1.73	1.48
1	B	2639	A	P-O5'	16.70	1.84	1.59
1	B	2819	G	O3'-P	16.70	1.86	1.61
1	B	113	U	O3'-P	16.70	1.86	1.61
1	B	2265	U	P-O5'	16.70	1.84	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2884	U	P-O5'	16.70	1.84	1.59
1	B	215	G	O3'-P	16.69	1.86	1.61
1	B	1445	G	C3'-O3'	16.69	1.67	1.42
1	B	2682	A	O3'-P	16.69	1.86	1.61
1	B	178	G	C1'-N9	16.69	1.73	1.48
1	B	1613	G	O3'-P	16.69	1.86	1.61
1	B	1891	G	P-O5'	16.69	1.84	1.59
1	B	726	G	C1'-N9	16.68	1.73	1.48
1	B	1790	C	C3'-O3'	16.68	1.67	1.42
1	B	1571	A	P-O5'	16.68	1.84	1.59
1	B	1932	A	O3'-P	16.68	1.86	1.61
1	B	307	G	C1'-N9	16.68	1.73	1.48
1	B	916	G	C1'-N9	16.68	1.73	1.48
1	B	2845	U	P-O5'	16.68	1.84	1.59
1	B	329	G	C1'-N9	16.68	1.73	1.48
1	B	451	U	C1'-N1	16.68	1.73	1.48
1	B	1807	G	C1'-N9	16.68	1.73	1.48
1	B	1186	G	O3'-P	16.67	1.86	1.61
1	B	1686	C	O3'-P	16.67	1.86	1.61
1	B	910	A	P-O5'	16.67	1.84	1.59
1	B	784	G	O3'-P	16.67	1.86	1.61
1	B	120	U	C5'-C4'	16.66	1.84	1.51
1	B	1110	G	C1'-N9	16.66	1.73	1.48
1	B	2110	G	P-O5'	16.66	1.84	1.59
1	B	510	C	C1'-N1	16.66	1.73	1.48
1	B	1719	G	C1'-N9	16.65	1.73	1.48
1	B	1000	A	P-O5'	16.65	1.84	1.59
1	B	1722	A	P-O5'	16.65	1.84	1.59
1	B	2749	A	O3'-P	16.65	1.86	1.61
1	B	790	U	C1'-N1	16.65	1.73	1.48
1	B	1125	G	C1'-N9	16.64	1.73	1.48
1	B	685	A	C5'-C4'	16.64	1.76	1.51
1	B	470	A	P-O5'	16.64	1.84	1.59
1	B	458	G	P-O5'	16.64	1.84	1.59
1	B	1359	A	C1'-N9	16.64	1.73	1.48
1	B	739	A	O3'-P	16.63	1.86	1.61
1	B	820	A	O3'-P	16.63	1.86	1.61
1	B	63	A	O3'-P	16.63	1.86	1.61
1	B	1022	G	O3'-P	16.63	1.86	1.61
1	B	1671	U	O3'-P	16.63	1.86	1.61
1	B	488	G	C1'-N9	16.63	1.72	1.48
1	B	1417	C	C1'-N1	16.63	1.73	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2687	U	P-O5'	16.63	1.84	1.59
1	B	2867	G	O3'-P	16.63	1.86	1.61
1	B	1371	G	C1'-N9	16.62	1.72	1.48
1	B	442	G	O3'-P	16.62	1.86	1.61
1	B	527	C	O3'-P	16.62	1.86	1.61
1	B	1417	C	O3'-P	16.62	1.86	1.61
1	B	1470	A	P-O5'	16.62	1.84	1.59
1	B	1696	G	C1'-N9	16.62	1.72	1.48
1	B	1049	C	P-O5'	16.61	1.84	1.59
1	B	1122	G	C1'-N9	16.61	1.72	1.48
1	B	233	A	P-O5'	16.61	1.84	1.59
1	B	913	U	C1'-N1	16.61	1.73	1.48
1	B	1935	G	P-O5'	16.61	1.84	1.59
1	B	2286	G	P-O5'	16.61	1.84	1.59
1	B	783	A	O3'-P	16.61	1.86	1.61
1	B	2214	C	P-O5'	16.61	1.84	1.59
1	B	2529	G	C1'-N9	16.60	1.72	1.48
1	B	2532	G	C1'-N9	16.60	1.72	1.48
1	B	563	A	O3'-P	16.60	1.86	1.61
1	B	713	G	C1'-N9	16.60	1.72	1.48
1	B	2282	G	O3'-P	16.60	1.86	1.61
1	B	399	U	O3'-P	16.59	1.86	1.61
1	B	867	C	P-O5'	16.59	1.84	1.59
1	B	2116	G	C1'-N9	16.59	1.72	1.48
1	B	1579	A	O3'-P	16.59	1.86	1.61
1	B	1527	G	P-O5'	16.59	1.84	1.59
1	B	2890	G	P-O5'	16.59	1.84	1.59
1	B	481	G	C1'-N9	16.59	1.72	1.48
1	B	1891	G	O3'-P	16.58	1.86	1.61
1	B	1225	G	C1'-N9	16.57	1.72	1.48
1	B	1673	G	C1'-N9	16.57	1.72	1.48
1	B	404	A	P-O5'	16.57	1.84	1.59
1	B	548	G	C1'-N9	16.57	1.72	1.48
1	B	1955	U	O3'-P	16.57	1.86	1.61
1	B	2378	A	P-O5'	16.57	1.84	1.59
1	B	1251	C	P-O5'	16.57	1.84	1.59
1	B	704	G	O3'-P	16.57	1.86	1.61
1	B	1522	A	C1'-N9	16.57	1.72	1.48
1	B	2371	G	C1'-N9	16.57	1.72	1.48
1	B	103	A	O3'-P	16.56	1.85	1.61
1	B	1756	G	C1'-N9	16.56	1.72	1.48
1	B	1899	A	P-O5'	16.56	1.84	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1020	A	O3'-P	16.56	1.85	1.61
1	B	1633	G	C1'-N9	16.56	1.72	1.48
1	B	223	A	O3'-P	16.56	1.85	1.61
1	B	792	A	P-O5'	16.56	1.84	1.59
1	B	974	G	C1'-N9	16.56	1.72	1.48
1	B	2318	G	C1'-N9	16.56	1.72	1.48
1	B	202	U	P-O5'	16.55	1.84	1.59
1	B	577	G	C1'-N9	16.55	1.72	1.48
1	B	784	G	C1'-N9	16.55	1.72	1.48
1	B	275	C	C5'-C4'	16.55	1.76	1.51
1	B	1573	G	C1'-N9	16.55	1.72	1.48
1	B	1373	A	P-O5'	16.54	1.84	1.59
1	B	1738	G	P-O5'	16.54	1.84	1.59
1	B	2825	G	C1'-N9	16.54	1.72	1.48
1	B	34	U	P-O5'	16.54	1.84	1.59
1	B	2320	U	P-O5'	16.54	1.84	1.59
1	B	263	G	C1'-N9	16.54	1.72	1.48
1	B	232	G	C1'-N9	16.54	1.72	1.48
1	B	512	G	C1'-N9	16.54	1.72	1.48
1	B	308	G	C1'-N9	16.53	1.72	1.48
1	B	454	A	O3'-P	16.53	1.85	1.61
1	B	2553	G	P-O5'	16.53	1.84	1.59
1	B	181	A	O3'-P	16.53	1.85	1.61
1	B	247	G	C1'-N9	16.53	1.72	1.48
1	B	456	C	C3'-O3'	16.53	1.67	1.42
1	B	2112	G	C1'-N9	16.52	1.72	1.48
1	B	2808	G	C1'-N9	16.52	1.72	1.48
1	B	117	G	O3'-P	16.52	1.85	1.61
1	B	2271	G	C1'-N9	16.52	1.72	1.48
1	B	1424	G	O3'-P	16.52	1.85	1.61
1	B	2628	C	C1'-N1	16.52	1.73	1.48
1	B	362	A	P-O5'	16.52	1.84	1.59
1	B	1586	A	P-O5'	16.52	1.84	1.59
1	B	1475	G	C1'-N9	16.51	1.72	1.48
1	B	2269	G	C1'-N9	16.51	1.72	1.48
1	B	1371	G	P-O5'	16.51	1.84	1.59
1	B	2029	G	C1'-N9	16.51	1.72	1.48
1	B	177	G	P-O5'	16.51	1.84	1.59
1	B	1308	A	P-O5'	16.51	1.84	1.59
1	B	1572	A	P-O5'	16.51	1.84	1.59
1	B	1250	G	C1'-N9	16.50	1.72	1.48
1	B	2283	C	O3'-P	16.50	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2483	C	P-O5'	16.50	1.84	1.59
1	B	630	G	C1'-N9	16.50	1.72	1.48
1	B	1451	C	C3'-O3'	16.50	1.67	1.42
1	B	811	U	O3'-P	16.50	1.85	1.61
1	B	1308	A	C1'-N9	16.50	1.72	1.48
1	B	2214	C	O3'-P	16.50	1.85	1.61
1	B	2252	G	C1'-N9	16.50	1.72	1.48
1	B	1967	C	P-O5'	16.49	1.84	1.59
1	B	568	U	C1'-N1	16.49	1.73	1.48
1	B	1127	A	P-O5'	16.49	1.84	1.59
1	B	1687	G	P-O5'	16.49	1.84	1.59
1	B	1731	G	C1'-N9	16.48	1.72	1.48
1	B	2712	C	P-O5'	16.48	1.84	1.59
1	B	1456	G	P-O5'	16.48	1.84	1.59
1	B	26	G	C3'-O3'	16.48	1.66	1.42
1	B	2133	G	P-O5'	16.48	1.84	1.59
1	B	989	G	C1'-N9	16.48	1.72	1.48
1	B	2196	C	O3'-P	16.47	1.85	1.61
1	B	480	A	O3'-P	16.47	1.85	1.61
1	B	2806	C	C1'-N1	16.47	1.73	1.48
1	B	2574	G	P-O5'	16.47	1.84	1.59
1	B	1311	G	C1'-N9	16.46	1.72	1.48
1	B	1761	C	C1'-N1	16.46	1.73	1.48
1	B	1125	G	C5'-C4'	16.46	1.75	1.51
1	B	2750	A	P-O5'	16.46	1.84	1.59
1	B	481	G	O3'-P	16.46	1.85	1.61
1	B	367	G	C1'-N9	16.46	1.72	1.48
1	B	531	C	P-O5'	16.45	1.84	1.59
1	B	1816	C	P-O5'	16.45	1.84	1.59
1	B	1715	G	C1'-N9	16.45	1.72	1.48
1	B	2032	G	C1'-N9	16.45	1.72	1.48
1	B	2265	U	C1'-N1	16.45	1.73	1.48
1	B	2173	A	O3'-P	16.45	1.85	1.61
1	B	1248	G	O3'-P	16.45	1.85	1.61
1	B	624	C	O3'-P	16.45	1.85	1.61
1	B	2587	A	P-O5'	16.45	1.84	1.59
1	B	1870	C	C1'-N1	16.44	1.73	1.48
1	B	502	A	O3'-P	16.44	1.85	1.61
1	B	686	U	O3'-P	16.44	1.85	1.61
1	B	1383	A	O3'-P	16.44	1.85	1.61
1	B	513	A	P-O5'	16.44	1.84	1.59
1	B	1360	G	P-O5'	16.43	1.84	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2021	C	C1'-N1	16.43	1.73	1.48
1	B	2119	A	P-O5'	16.43	1.84	1.59
1	B	2327	A	O3'-P	16.43	1.85	1.61
1	B	1210	G	C1'-N9	16.42	1.72	1.48
1	B	1721	G	O3'-P	16.42	1.85	1.61
1	B	1819	A	P-O5'	16.42	1.84	1.59
1	B	2117	A	O3'-P	16.42	1.85	1.61
1	B	2282	G	C1'-N9	16.42	1.72	1.48
1	B	463	G	C1'-N9	16.42	1.72	1.48
1	B	1275	A	P-O5'	16.42	1.84	1.59
1	B	1699	G	C1'-N9	16.42	1.72	1.48
1	B	612	G	C1'-N9	16.42	1.72	1.48
1	B	507	A	O3'-P	16.41	1.85	1.61
1	B	1966	A	P-O5'	16.41	1.84	1.59
1	B	2157	G	O3'-P	16.41	1.85	1.61
1	B	1605	C	P-O5'	16.41	1.84	1.59
1	B	2433	A	O3'-P	16.41	1.85	1.61
1	B	2892	G	C1'-N9	16.41	1.72	1.48
1	B	1868	C	O3'-P	16.41	1.85	1.61
1	B	1266	G	C1'-N9	16.41	1.72	1.48
1	B	2130	U	P-O5'	16.41	1.84	1.59
1	B	1827	U	O3'-P	16.40	1.85	1.61
1	B	2051	A	C1'-N9	16.40	1.72	1.48
1	B	1456	G	C1'-N9	16.40	1.72	1.48
1	B	1976	U	O3'-P	16.40	1.85	1.61
1	B	2688	G	C1'-N9	16.40	1.72	1.48
1	B	2453	A	O5'-C5'	16.39	1.67	1.42
1	B	1544	A	C1'-N9	16.39	1.72	1.48
1	B	1047	G	C3'-O3'	16.39	1.66	1.42
1	B	608	A	C5'-C4'	16.39	1.75	1.51
1	B	733	G	O3'-P	16.39	1.85	1.61
1	B	1607	C	O3'-P	16.39	1.85	1.61
1	B	2165	C	O3'-P	16.38	1.85	1.61
1	B	1268	A	P-O5'	16.38	1.84	1.59
1	B	11	C	P-O5'	16.38	1.84	1.59
1	B	927	A	P-O5'	16.38	1.84	1.59
1	B	369	U	C1'-N1	16.37	1.73	1.48
1	B	1187	G	C1'-N9	16.37	1.72	1.48
1	B	1679	A	C5'-C4'	16.37	1.75	1.51
1	B	1964	G	P-O5'	16.37	1.84	1.59
1	B	141	G	P-O5'	16.37	1.84	1.59
1	B	1048	A	O3'-P	16.36	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2237	G	C1'-N9	16.36	1.72	1.48
1	B	2894	G	O3'-P	16.36	1.85	1.61
1	B	329	G	O3'-P	16.36	1.85	1.61
1	B	895	U	O3'-P	16.36	1.85	1.61
1	B	2132	U	O3'-P	16.36	1.85	1.61
1	B	2360	G	P-O5'	16.35	1.84	1.59
1	B	402	A	O3'-P	16.35	1.85	1.61
1	B	1675	C	C1'-N1	16.35	1.73	1.48
1	B	2335	A	C3'-O3'	16.35	1.66	1.42
1	B	2428	G	O3'-P	16.35	1.85	1.61
1	B	1584	U	O3'-P	16.35	1.85	1.61
1	B	1585	C	P-O5'	16.35	1.84	1.59
1	B	340	A	P-O5'	16.35	1.84	1.59
1	B	388	G	C1'-N9	16.35	1.72	1.48
1	B	956	G	C1'-N9	16.35	1.72	1.48
1	B	1211	C	P-O5'	16.34	1.84	1.59
1	B	123	G	O3'-P	16.34	1.85	1.61
1	B	1418	G	O3'-P	16.34	1.85	1.61
1	B	846	U	C1'-N1	16.34	1.73	1.48
1	B	1025	G	P-O5'	16.34	1.84	1.59
1	B	1737	G	O3'-P	16.34	1.85	1.61
1	B	2364	C	O3'-P	16.34	1.85	1.61
1	B	2746	U	O3'-P	16.34	1.85	1.61
1	B	1634	A	P-O5'	16.33	1.84	1.59
1	B	1384	A	P-O5'	16.33	1.84	1.59
1	B	1890	A	P-O5'	16.33	1.84	1.59
1	B	625	G	O3'-P	16.33	1.85	1.61
1	B	1969	A	C3'-O3'	16.33	1.66	1.42
1	B	2778	A	O3'-P	16.33	1.85	1.61
1	B	2639	A	O3'-P	16.33	1.85	1.61
1	B	2327	A	P-O5'	16.32	1.84	1.59
1	B	2432	A	O3'-P	16.32	1.85	1.61
1	B	389	G	C1'-N9	16.32	1.72	1.48
1	B	1352	U	O3'-P	16.32	1.85	1.61
1	B	2739	U	P-O5'	16.32	1.84	1.59
1	B	1606	C	P-O5'	16.32	1.84	1.59
1	B	806	C	P-O5'	16.31	1.84	1.59
1	B	2168	G	O3'-P	16.31	1.85	1.61
1	B	1416	G	O3'-P	16.31	1.85	1.61
1	B	181	A	P-O5'	16.31	1.84	1.59
1	B	2164	C	O3'-P	16.31	1.85	1.61
1	B	1568	G	C1'-N9	16.31	1.72	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2450	A	O3'-P	16.31	1.85	1.61
1	B	1670	C	P-O5'	16.30	1.84	1.59
1	B	1614	A	P-O5'	16.30	1.84	1.59
1	B	1858	A	O3'-P	16.30	1.85	1.61
1	B	2551	C	O3'-P	16.30	1.85	1.61
1	B	2169	A	P-O5'	16.29	1.84	1.59
1	B	2119	A	O3'-P	16.29	1.85	1.61
1	B	2245	U	O3'-P	16.29	1.85	1.61
1	B	2224	G	O3'-P	16.29	1.85	1.61
1	B	2821	A	O3'-P	16.29	1.85	1.61
1	B	53	A	C3'-O3'	16.29	1.66	1.42
1	B	1437	C	O3'-P	16.29	1.85	1.61
1	B	1887	C	C3'-O3'	16.28	1.66	1.42
1	B	779	U	P-O5'	16.28	1.84	1.59
1	B	1136	G	C1'-N9	16.28	1.72	1.48
1	B	2747	G	P-O5'	16.28	1.84	1.59
1	B	1308	A	O3'-P	16.28	1.85	1.61
1	B	168	G	C1'-N9	16.28	1.72	1.48
1	B	491	G	C1'-N9	16.28	1.72	1.48
1	B	51	G	C1'-N9	16.27	1.72	1.48
1	B	1378	A	O3'-P	16.27	1.85	1.61
1	B	2904	U	P-O5'	16.27	1.84	1.59
1	B	1453	A	O3'-P	16.26	1.85	1.61
1	B	1141	U	O3'-P	16.26	1.85	1.61
1	B	732	C	O3'-P	16.26	1.85	1.61
1	B	2749	A	P-O5'	16.26	1.84	1.59
1	B	1690	A	P-O5'	16.26	1.84	1.59
1	B	1554	U	C1'-N1	16.26	1.72	1.48
1	B	1557	C	O3'-P	16.25	1.85	1.61
1	B	250	G	C1'-N9	16.25	1.72	1.48
1	B	370	G	C1'-N9	16.25	1.72	1.48
1	B	1136	G	O3'-P	16.25	1.85	1.61
1	B	1554	U	O3'-P	16.25	1.85	1.61
1	B	168	G	P-O5'	16.25	1.84	1.59
1	B	637	A	C3'-O3'	16.25	1.66	1.42
1	B	2556	C	P-O5'	16.25	1.84	1.59
1	B	1172	C	O3'-P	16.25	1.85	1.61
1	B	2392	A	P-O5'	16.25	1.84	1.59
1	B	255	A	C1'-N9	16.24	1.72	1.48
1	B	1782	U	P-O5'	16.24	1.84	1.59
1	B	2473	U	P-O5'	16.24	1.84	1.59
1	B	1847	A	C3'-O3'	16.24	1.66	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	443	A	O3'-P	16.23	1.85	1.61
1	B	1390	U	P-O5'	16.23	1.84	1.59
1	B	2172	U	O3'-P	16.23	1.85	1.61
1	B	2390	U	P-O5'	16.23	1.84	1.59
1	B	47	C	C1'-N1	16.23	1.72	1.48
1	B	102	U	O3'-P	16.23	1.85	1.61
1	B	359	G	O3'-P	16.23	1.85	1.61
1	B	2552	U	O3'-P	16.23	1.85	1.61
1	B	1978	A	O3'-P	16.22	1.85	1.61
1	B	1801	A	C1'-N9	16.22	1.72	1.48
1	B	1850	G	O3'-P	16.22	1.85	1.61
1	B	2178	C	O3'-P	16.22	1.85	1.61
1	B	984	A	P-O5'	16.21	1.84	1.59
1	B	538	A	P-O5'	16.21	1.84	1.59
1	B	1469	A	C1'-N9	16.21	1.72	1.48
1	B	1965	C	O3'-P	16.21	1.85	1.61
1	B	1967	C	C1'-N1	16.21	1.72	1.48
1	B	675	A	O3'-P	16.21	1.85	1.61
1	B	896	A	P-O5'	16.21	1.84	1.59
1	B	1242	U	O3'-P	16.21	1.85	1.61
1	B	1132	U	C1'-N1	16.21	1.72	1.48
1	B	1737	G	P-O5'	16.21	1.84	1.59
1	B	2689	U	P-O5'	16.20	1.84	1.59
1	B	507	A	C1'-N9	16.20	1.72	1.48
1	B	1116	G	P-O5'	16.20	1.84	1.59
1	B	2780	G	C1'-N9	16.20	1.72	1.48
1	B	2869	G	O3'-P	16.20	1.85	1.61
1	B	2162	G	C1'-N9	16.20	1.72	1.48
1	B	2428	G	C1'-N9	16.20	1.72	1.48
1	B	2638	G	O3'-P	16.20	1.85	1.61
1	B	2573	C	O3'-P	16.20	1.85	1.61
1	B	501	A	P-O5'	16.20	1.84	1.59
1	B	2375	G	C1'-N9	16.20	1.72	1.48
1	B	2391	G	P-O5'	16.20	1.84	1.59
1	B	2481	G	C1'-N9	16.20	1.72	1.48
1	B	1604	C	O3'-P	16.20	1.85	1.61
1	B	248	G	C1'-N9	16.19	1.72	1.48
1	B	1353	A	P-O5'	16.19	1.84	1.59
1	B	402	A	P-O5'	16.19	1.84	1.59
1	B	1990	C	C3'-O3'	16.19	1.66	1.42
1	B	2410	G	O3'-P	16.18	1.85	1.61
1	B	1806	C	O3'-P	16.18	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	733	G	P-O5'	16.18	1.84	1.59
1	B	2016	U	P-O5'	16.18	1.84	1.59
1	B	256	A	C1'-N9	16.18	1.72	1.48
1	B	1021	A	O3'-P	16.18	1.85	1.61
1	B	1603	A	P-O5'	16.17	1.84	1.59
1	B	94	A	C5'-C4'	16.17	1.75	1.51
1	B	1116	G	C1'-N9	16.17	1.72	1.48
1	B	373	U	P-O5'	16.17	1.84	1.59
1	B	1253	A	C3'-O3'	16.17	1.66	1.42
1	B	1508	A	O3'-P	16.17	1.85	1.61
1	B	2575	C	O3'-P	16.17	1.85	1.61
1	B	140	C	O3'-P	16.17	1.85	1.61
1	B	1285	A	C1'-N9	16.16	1.72	1.48
1	B	2432	A	P-O5'	16.16	1.83	1.59
1	B	2644	G	O3'-P	16.16	1.85	1.61
1	B	2775	G	O3'-P	16.16	1.85	1.61
1	B	735	A	C3'-O3'	16.16	1.66	1.42
1	B	1140	C	C1'-N1	16.16	1.72	1.48
1	B	1572	A	C3'-O3'	16.16	1.66	1.42
1	B	1964	G	C1'-N9	16.15	1.72	1.48
1	B	778	G	O3'-P	16.15	1.85	1.61
1	B	2326	C	O3'-P	16.15	1.85	1.61
1	B	2370	G	O3'-P	16.15	1.85	1.61
1	B	1419	A	P-O5'	16.15	1.83	1.59
1	B	203	A	C3'-O3'	16.15	1.66	1.42
1	B	2472	G	O3'-P	16.15	1.85	1.61
1	B	983	A	O3'-P	16.14	1.85	1.61
1	B	906	U	O3'-P	16.14	1.85	1.61
1	B	2357	G	O3'-P	16.14	1.85	1.61
1	B	739	A	C1'-N9	16.14	1.72	1.48
1	B	2475	C	C1'-N1	16.14	1.72	1.48
1	B	2587	A	O3'-P	16.14	1.85	1.61
1	B	464	U	P-O5'	16.13	1.83	1.59
1	B	1807	G	P-O5'	16.13	1.83	1.59
1	B	497	A	C1'-N9	16.13	1.72	1.48
1	B	2775	G	P-O5'	16.13	1.83	1.59
1	B	866	A	O3'-P	16.13	1.85	1.61
1	B	927	A	C5'-C4'	16.13	1.75	1.51
1	B	1262	A	O3'-P	16.13	1.85	1.61
1	B	1963	U	P-O5'	16.13	1.83	1.59
1	B	2213	U	O3'-P	16.13	1.85	1.61
1	B	1763	G	O3'-P	16.13	1.85	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1834	U	P-O5'	16.13	1.83	1.59
1	B	1109	C	C1'-N1	16.12	1.72	1.48
1	B	1754	A	O3'-P	16.12	1.85	1.61
1	B	1526	C	P-O5'	16.12	1.83	1.59
1	B	1477	A	C1'-N9	16.12	1.72	1.48
1	B	1738	G	C1'-N9	16.12	1.72	1.48
1	B	1438	U	P-O5'	16.11	1.83	1.59
1	B	503	A	P-O5'	16.11	1.83	1.59
1	B	190	A	C3'-O3'	16.11	1.66	1.42
1	B	2879	A	P-O5'	16.11	1.83	1.59
1	B	1876	A	P-O5'	16.11	1.83	1.59
1	B	1992	G	C1'-N9	16.11	1.72	1.48
1	B	1379	U	P-O5'	16.10	1.83	1.59
1	B	1523	U	C1'-N1	16.10	1.72	1.48
1	B	1694	C	C1'-N1	16.10	1.72	1.48
1	B	1340	U	P-O5'	16.10	1.83	1.59
1	B	1817	G	P-O5'	16.10	1.83	1.59
1	B	1341	G	C1'-N9	16.10	1.72	1.48
1	B	452	G	P-O5'	16.09	1.83	1.59
1	B	1341	G	P-O5'	16.09	1.83	1.59
1	B	435	C	C3'-O3'	16.09	1.66	1.42
1	B	2359	C	O3'-P	16.09	1.85	1.61
1	B	1365	A	P-O5'	16.09	1.83	1.59
1	B	1633	G	O3'-P	16.09	1.85	1.61
1	B	945	A	P-O5'	16.09	1.83	1.59
1	B	1139	G	O3'-P	16.09	1.85	1.61
1	B	1372	U	O3'-P	16.09	1.85	1.61
1	B	651	G	C1'-N9	16.08	1.72	1.48
1	B	1126	A	C5'-C4'	16.08	1.75	1.51
1	B	2371	G	P-O5'	16.08	1.83	1.59
1	B	2391	G	C1'-N9	16.08	1.72	1.48
1	B	1142	A	P-O5'	16.08	1.83	1.59
1	B	1851	U	P-O5'	16.08	1.83	1.59
1	B	1859	U	P-O5'	16.08	1.83	1.59
1	B	90	U	O3'-P	16.07	1.85	1.61
1	B	1213	A	O3'-P	16.07	1.85	1.61
1	B	1893	C	O3'-P	16.07	1.85	1.61
1	B	630	G	P-O5'	16.07	1.83	1.59
1	B	911	A	O3'-P	16.07	1.85	1.61
1	B	1647	U	O3'-P	16.07	1.85	1.61
1	B	525	U	C5'-C4'	16.07	1.75	1.51
1	B	1887	C	C1'-N1	16.07	1.72	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	216	A	P-O5'	16.06	1.83	1.59
1	B	1509	A	P-O5'	16.06	1.83	1.59
1	B	2147	A	O3'-P	16.06	1.85	1.61
1	B	403	U	C1'-N1	16.06	1.72	1.48
1	B	2563	U	O3'-P	16.06	1.85	1.61
1	B	422	A	P-O5'	16.06	1.83	1.59
1	B	1524	G	C1'-N9	16.06	1.72	1.48
1	B	2405	G	C5'-C4'	16.06	1.75	1.51
1	B	1252	G	P-O5'	16.05	1.83	1.59
1	B	1024	G	O3'-P	16.05	1.85	1.61
1	B	1454	C	P-O5'	16.05	1.83	1.59
1	B	912	C	P-O5'	16.05	1.83	1.59
1	B	1929	G	O3'-P	16.04	1.85	1.61
1	B	182	A	O3'-P	16.04	1.85	1.61
1	B	2411	A	P-O5'	16.04	1.83	1.59
1	B	48	G	O3'-P	16.04	1.85	1.61
1	B	728	G	C1'-N9	16.04	1.71	1.47
1	B	1514	G	P-O5'	16.04	1.83	1.59
1	B	2112	G	C5'-C4'	16.04	1.75	1.51
1	B	1342	A	P-O5'	16.03	1.83	1.59
1	B	362	A	O3'-P	16.03	1.85	1.61
1	B	2318	G	O3'-P	16.03	1.85	1.61
1	B	2720	U	C1'-N1	16.03	1.72	1.48
1	B	2179	C	P-O5'	16.03	1.83	1.59
1	B	196	A	O3'-P	16.03	1.85	1.61
1	B	2022	U	C1'-N1	16.03	1.72	1.48
1	B	2498	5MC	O3'-P	16.03	1.85	1.61
1	B	2731	G	O3'-P	16.03	1.85	1.61
1	B	469	G	O3'-P	16.02	1.85	1.61
1	B	2891	U	P-O5'	16.02	1.83	1.59
1	B	2720	U	P-O5'	16.02	1.83	1.59
1	B	2243	U	O3'-P	16.02	1.85	1.61
1	B	1268	A	O3'-P	16.01	1.85	1.61
1	B	1425	G	P-O5'	16.01	1.83	1.59
1	B	1110	G	P-O5'	16.01	1.83	1.59
1	B	1426	G	C1'-N9	16.01	1.72	1.48
1	B	1890	A	O3'-P	16.00	1.85	1.61
1	B	1416	G	C1'-N9	16.00	1.72	1.48
1	B	1460	U	P-O5'	16.00	1.83	1.59
1	B	1736	U	O3'-P	15.99	1.85	1.61
1	B	1635	A	O3'-P	15.99	1.85	1.61
1	B	2499	C	C1'-N1	15.99	1.72	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2554	U	C1'-N1	15.99	1.72	1.48
1	B	2015	A	P-O5'	15.99	1.83	1.59
1	B	2325	G	C1'-N9	15.99	1.72	1.48
1	B	91	A	C1'-N9	15.99	1.72	1.48
1	B	859	G	C1'-N9	-15.99	1.24	1.48
1	B	1189	A	P-O5'	15.99	1.83	1.59
1	B	1466	U	C5'-C4'	15.99	1.75	1.51
1	B	1455	G	P-O5'	15.98	1.83	1.59
1	B	1558	C	P-O5'	15.98	1.83	1.59
1	B	576	U	P-O5'	15.98	1.83	1.59
1	B	2892	G	P-O5'	15.98	1.83	1.59
1	B	49	A	P-O5'	15.98	1.83	1.59
1	B	1205	A	P-O5'	15.98	1.83	1.59
1	B	1757	A	P-O5'	15.98	1.83	1.59
1	B	1247	A	O3'-P	15.97	1.85	1.61
1	B	2681	C	P-O5'	15.97	1.83	1.59
1	B	1364	G	P-O5'	15.96	1.83	1.59
1	B	218	A	P-O5'	15.96	1.83	1.59
1	B	1274	A	O3'-P	15.96	1.85	1.61
1	B	1581	G	P-O5'	15.96	1.83	1.59
1	B	1694	C	P-O5'	15.96	1.83	1.59
1	B	1756	G	O3'-P	15.96	1.85	1.61
1	B	603	A	C1'-N9	15.96	1.71	1.48
1	B	1602	U	P-O5'	15.96	1.83	1.59
1	B	2389	G	P-O5'	15.96	1.83	1.59
1	B	2609	U	P-O5'	15.96	1.83	1.59
1	B	10	A	C1'-N9	15.95	1.71	1.48
1	B	2747	G	C1'-N9	15.95	1.71	1.48
1	B	298	G	C1'-N9	15.95	1.71	1.48
1	B	532	A	O3'-P	15.95	1.85	1.61
1	B	124	G	C1'-N9	15.95	1.71	1.48
1	B	867	C	O3'-P	15.95	1.85	1.61
1	B	2893	A	P-O5'	15.95	1.83	1.59
1	B	1173	U	P-O5'	15.94	1.83	1.59
1	B	1340	U	O3'-P	15.95	1.85	1.61
1	B	1510	G	P-O5'	15.94	1.83	1.59
1	B	2114	A	C1'-N9	15.94	1.71	1.48
1	B	385	C	C1'-N1	15.94	1.72	1.48
1	B	555	G	P-O5'	15.94	1.83	1.59
1	B	1912	A	P-O5'	15.94	1.83	1.59
1	B	788	A	O3'-P	15.94	1.85	1.61
1	B	1188	U	P-O5'	15.94	1.83	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	646	U	C1'-N1	15.94	1.72	1.48
1	B	2799	A	P-O5'	15.94	1.83	1.59
1	B	12	U	C1'-N1	15.93	1.72	1.48
1	B	1714	U	C1'-N1	15.93	1.72	1.48
1	B	220	G	P-O5'	15.93	1.83	1.59
1	B	2233	U	O3'-P	15.93	1.85	1.61
1	B	1527	G	C1'-N9	15.93	1.71	1.48
1	B	1641	A	C1'-N9	15.93	1.71	1.48
1	B	2392	A	O3'-P	15.93	1.85	1.61
1	B	1271	G	C1'-N9	15.92	1.71	1.48
1	B	790	U	P-O5'	15.92	1.83	1.59
1	B	1604	C	P-O5'	15.92	1.83	1.59
1	B	2109	U	P-O5'	15.92	1.83	1.59
1	B	2686	G	O3'-P	15.92	1.85	1.61
1	B	529	A	P-O5'	15.92	1.83	1.59
1	B	811	U	C3'-O3'	15.92	1.66	1.42
1	B	1774	C	C1'-N1	15.92	1.72	1.48
1	B	491	G	O3'-P	15.91	1.85	1.61
1	B	2082	A	P-O5'	15.91	1.83	1.59
1	B	421	C	O3'-P	15.91	1.85	1.61
1	B	537	G	O3'-P	15.91	1.85	1.61
1	B	189	G	C1'-N9	15.90	1.71	1.48
1	B	2015	A	O3'-P	15.90	1.85	1.61
1	B	513	A	O3'-P	15.90	1.84	1.61
1	B	1428	C	C1'-N1	15.90	1.72	1.48
1	B	127	A	P-O5'	15.90	1.83	1.59
1	B	2555	U	O3'-P	15.90	1.84	1.61
1	B	776	G	C3'-O3'	15.89	1.66	1.42
1	B	448	U	C1'-N1	15.89	1.72	1.48
1	B	2366	A	P-O5'	15.89	1.83	1.59
1	B	2883	A	P-O5'	15.89	1.83	1.59
1	B	1641	A	O3'-P	15.89	1.84	1.61
1	B	1552	A	P-O5'	15.88	1.83	1.59
1	B	2406	A	C5'-C4'	15.88	1.75	1.51
1	B	1154	G	P-O5'	15.88	1.83	1.59
1	B	361	G	P-O5'	15.88	1.83	1.59
1	B	781	A	P-O5'	15.88	1.83	1.59
1	B	2358	A	P-O5'	15.87	1.83	1.59
1	B	578	G	P-O5'	15.87	1.83	1.59
1	B	2118	U	C1'-N1	15.87	1.72	1.48
1	B	232	G	O3'-P	15.87	1.84	1.61
1	B	782	A	O3'-P	15.87	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2085	U	O3'-P	15.87	1.84	1.61
1	B	792	A	O3'-P	15.87	1.84	1.61
1	B	635	C	O3'-P	15.86	1.84	1.61
1	B	901	C	C1'-N1	15.87	1.72	1.48
1	B	2244	U	P-O5'	15.87	1.83	1.59
1	B	1459	G	O3'-P	15.86	1.84	1.61
1	B	1664	A	C5'-C4'	15.86	1.75	1.51
1	B	1543	G	O3'-P	15.86	1.84	1.61
1	B	2108	A	O3'-P	15.86	1.84	1.61
1	B	2224	G	C1'-N9	15.86	1.71	1.48
1	B	1310	G	P-O5'	15.85	1.83	1.59
1	B	2133	G	C1'-N9	15.85	1.71	1.48
1	B	1389	G	O3'-P	15.85	1.84	1.61
1	B	2387	U	O3'-P	15.85	1.84	1.61
1	B	2319	G	O3'-P	15.85	1.84	1.61
1	B	2173	A	P-O5'	15.85	1.83	1.59
1	B	655	A	P-O5'	15.84	1.83	1.59
1	B	609	A	C1'-N9	15.84	1.71	1.48
1	B	2104	C	C1'-N1	15.84	1.72	1.48
1	B	2145	C	P-O5'	15.84	1.83	1.59
1	B	2158	A	P-O5'	15.84	1.83	1.59
1	B	960	A	O3'-P	15.83	1.84	1.61
1	B	1719	G	O3'-P	15.83	1.84	1.61
1	B	1354	A	P-O5'	15.83	1.83	1.59
1	B	2118	U	O3'-P	15.83	1.84	1.61
1	B	2388	A	O3'-P	15.83	1.84	1.61
1	B	83	A	C1'-N9	15.83	1.71	1.48
1	B	876	C	P-O5'	15.83	1.83	1.59
1	B	2356	U	P-O5'	15.82	1.83	1.59
1	B	2680	U	O3'-P	15.82	1.84	1.61
1	B	2885	G	C1'-N9	15.82	1.71	1.48
1	B	2211	A	O3'-P	15.82	1.84	1.61
1	B	1363	C	O3'-P	15.82	1.84	1.61
1	B	1700	A	O3'-P	15.82	1.84	1.61
1	B	999	U	O3'-P	15.82	1.84	1.61
1	B	2542	A	O3'-P	15.82	1.84	1.61
1	B	1460	U	O3'-P	15.81	1.84	1.61
1	B	1754	A	P-O5'	15.81	1.83	1.59
1	B	2475	C	O3'-P	15.81	1.84	1.61
1	B	2430	A	P-O5'	15.81	1.83	1.59
1	B	2453	A	C1'-N9	15.81	1.71	1.48
1	B	256	A	P-O5'	15.80	1.83	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1911	PSU	O3'-P	15.80	1.84	1.61
1	B	2330	G	O3'-P	15.80	1.84	1.61
1	B	1900	A	P-O5'	15.80	1.83	1.59
1	B	455	C	C1'-N1	15.79	1.72	1.48
1	B	752	A	O3'-P	15.79	1.84	1.61
1	B	1533	C	O3'-P	15.79	1.84	1.61
1	B	2471	A	O3'-P	15.78	1.84	1.61
1	B	1235	G	C1'-N9	15.78	1.71	1.48
1	B	1965	C	P-O5'	15.78	1.83	1.59
1	B	1760	C	O3'-P	15.78	1.84	1.61
1	B	2868	A	O3'-P	15.78	1.84	1.61
1	B	1283	G	C1'-N9	15.78	1.71	1.48
1	B	403	U	O3'-P	15.77	1.84	1.61
1	B	1828	G	P-O5'	15.77	1.83	1.59
1	B	2629	U	O3'-P	15.77	1.84	1.61
1	B	645	C	O3'-P	15.77	1.84	1.61
1	B	636	G	P-O5'	15.77	1.83	1.59
1	B	1607	C	C1'-N1	15.77	1.72	1.48
1	B	1818	U	O3'-P	15.77	1.84	1.61
1	B	793	A	P-O5'	15.77	1.83	1.59
1	B	190	A	P-O5'	15.76	1.83	1.59
1	B	447	A	P-O5'	15.76	1.83	1.59
1	B	1963	U	O3'-P	15.76	1.84	1.61
1	B	2883	A	O3'-P	15.76	1.84	1.61
1	B	530	G	O3'-P	15.76	1.84	1.61
1	B	1605	C	O3'-P	15.76	1.84	1.61
1	B	2476	A	P-O5'	15.76	1.83	1.59
1	B	2019	A	P-O5'	15.76	1.83	1.59
1	B	240	C	O3'-P	15.75	1.84	1.61
1	B	779	U	O3'-P	15.75	1.84	1.61
1	B	818	G	P-O5'	15.75	1.83	1.59
1	B	1379	U	O3'-P	15.75	1.84	1.61
1	B	2224	G	P-O5'	15.75	1.83	1.59
1	B	113	U	O5'-C5'	15.75	1.66	1.42
1	B	1569	A	P-O5'	15.75	1.83	1.59
1	B	1995	U	O3'-P	15.75	1.84	1.61
1	B	1339	G	O3'-P	15.75	1.84	1.61
1	B	2086	U	C1'-N1	15.75	1.72	1.48
1	B	2365	G	O3'-P	15.75	1.84	1.61
1	B	1284	A	O3'-P	15.74	1.84	1.61
1	B	1852	U	P-O5'	15.74	1.83	1.59
1	B	2134	A	O3'-P	15.74	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2440	C	O3'-P	15.74	1.84	1.61
1	B	241	A	P-O5'	15.74	1.83	1.59
1	B	862	G	O3'-P	15.74	1.84	1.61
1	B	2113	U	C5'-C4'	15.74	1.74	1.51
1	B	400	G	P-O5'	15.74	1.83	1.59
1	B	933	A	P-O5'	15.74	1.83	1.59
1	B	1205	A	O3'-P	15.74	1.84	1.61
1	B	1236	G	P-O5'	15.74	1.83	1.59
1	B	1954	G	P-O5'	15.74	1.83	1.59
1	B	2439	A	O3'-P	15.74	1.84	1.61
1	B	2610	C	O3'-P	15.74	1.84	1.61
1	B	866	A	P-O5'	15.73	1.83	1.59
1	B	1847	A	P-O5'	15.73	1.83	1.59
1	B	980	A	P-O5'	15.73	1.83	1.59
1	B	2322	A	O3'-P	15.73	1.84	1.61
1	B	2740	A	P-O5'	15.73	1.83	1.59
1	B	2807	U	P-O5'	15.73	1.83	1.59
1	B	752	A	P-O5'	15.73	1.83	1.59
1	B	1689	A	O3'-P	15.73	1.84	1.61
1	B	2081	U	O3'-P	15.73	1.84	1.61
1	B	360	U	P-O5'	15.72	1.83	1.59
1	B	629	G	O3'-P	15.72	1.84	1.61
1	B	1758	U	P-O5'	15.72	1.83	1.59
1	B	1459	G	C1'-N9	15.72	1.71	1.48
1	B	2017	U	O3'-P	15.72	1.84	1.61
1	B	1135	C	O3'-P	15.72	1.84	1.61
1	B	1497	U	O3'-P	15.72	1.84	1.61
1	B	2212	A	P-O5'	15.72	1.83	1.59
1	B	577	G	P-O5'	15.72	1.83	1.59
1	B	1351	C	O3'-P	15.72	1.84	1.61
1	B	2675	A	P-O5'	15.72	1.83	1.59
1	B	2388	A	P-O5'	15.71	1.83	1.59
1	B	1267	U	O3'-P	15.71	1.84	1.61
1	B	1515	A	P-O5'	15.71	1.83	1.59
1	B	776	G	C1'-N9	15.71	1.71	1.48
1	B	1674	G	O3'-P	15.71	1.84	1.61
1	B	863	A	C1'-N9	15.71	1.71	1.48
1	B	1871	A	P-O5'	15.71	1.83	1.59
1	B	2162	G	P-O5'	15.71	1.83	1.59
1	B	2482	A	O3'-P	15.71	1.84	1.61
1	B	1027	A	P-O5'	15.71	1.83	1.59
1	B	1633	G	P-O5'	15.71	1.83	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2454	G	C5'-C4'	15.70	1.74	1.51
1	B	1774	C	P-O5'	15.70	1.83	1.59
1	B	2780	G	O3'-P	15.70	1.84	1.61
1	B	2823	A	P-O5'	15.70	1.83	1.59
1	B	572	A	P-O5'	15.70	1.83	1.59
1	B	1761	C	O3'-P	15.70	1.84	1.61
1	B	1497	U	P-O5'	15.69	1.83	1.59
1	B	1898	U	O3'-P	15.69	1.84	1.61
1	B	1135	C	C1'-N1	15.69	1.72	1.48
1	B	1551	A	O3'-P	15.69	1.84	1.61
1	B	1929	G	P-O5'	15.69	1.83	1.59
1	B	2326	C	P-O5'	15.69	1.83	1.59
1	B	2564	A	P-O5'	15.69	1.83	1.59
1	B	1136	G	P-O5'	15.69	1.83	1.59
1	B	636	G	O3'-P	15.68	1.84	1.61
1	B	360	U	O3'-P	15.68	1.84	1.61
1	B	2867	G	C1'-N9	15.68	1.71	1.48
1	B	837	C	O3'-P	15.68	1.84	1.61
1	B	2499	C	P-O5'	15.68	1.83	1.59
1	B	2164	C	C1'-N1	15.68	1.72	1.48
1	B	1981	A	P-O5'	15.68	1.83	1.59
1	B	748	G	O3'-P	15.67	1.84	1.61
1	B	1024	G	C1'-N9	15.67	1.71	1.48
1	B	1701	A	O3'-P	15.67	1.84	1.61
1	B	1781	U	P-O5'	15.67	1.83	1.59
1	B	2748	A	O3'-P	15.67	1.84	1.61
1	B	748	G	C1'-N9	15.67	1.71	1.48
1	B	1001	A	P-O5'	15.67	1.83	1.59
1	B	2126	A	O3'-P	15.67	1.84	1.61
1	B	1153	C	O3'-P	15.67	1.84	1.61
1	B	1655	A	C1'-N9	15.67	1.71	1.48
1	B	961	C	C1'-N1	15.66	1.72	1.48
1	B	339	U	O3'-P	15.66	1.84	1.61
1	B	806	C	C1'-N1	15.66	1.72	1.48
1	B	91	A	P-O5'	15.66	1.83	1.59
1	B	1673	G	P-O5'	15.66	1.83	1.59
1	B	2889	C	O3'-P	15.66	1.84	1.61
1	B	176	A	O3'-P	15.65	1.84	1.61
1	B	2501	C	P-O5'	15.65	1.83	1.59
1	B	401	A	O3'-P	15.65	1.84	1.61
1	B	631	A	O3'-P	15.65	1.84	1.61
1	B	2431	U	O3'-P	15.64	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2586	U	O3'-P	15.64	1.84	1.61
1	B	2790	U	P-O5'	15.64	1.83	1.59
1	B	456	C	C1'-N1	15.64	1.72	1.48
1	B	1694	C	O3'-P	15.64	1.84	1.61
1	B	1762	A	P-O5'	15.64	1.83	1.59
1	B	2133	G	O3'-P	15.64	1.84	1.61
1	B	189	G	O3'-P	15.64	1.84	1.61
1	B	1395	A	P-O5'	15.64	1.83	1.59
1	B	179	C	P-O5'	15.63	1.83	1.59
1	B	1932	A	C3'-O3'	15.63	1.65	1.42
1	B	2214	C	C1'-N1	15.63	1.72	1.48
1	B	213	A	C1'-N9	15.63	1.71	1.48
1	B	724	U	O3'-P	15.63	1.84	1.61
1	B	2867	G	P-O5'	15.63	1.83	1.59
1	B	1452	G	C5'-C4'	15.63	1.74	1.51
1	B	2389	G	O3'-P	15.63	1.84	1.61
1	B	1039	A	O3'-P	15.63	1.84	1.61
1	B	2887	A	P-O5'	15.63	1.83	1.59
1	B	945	A	O3'-P	15.62	1.84	1.61
1	B	1525	A	O3'-P	15.62	1.84	1.61
1	B	117	G	C1'-N9	15.62	1.71	1.48
1	B	492	A	P-O5'	15.62	1.83	1.59
1	B	371	A	P-O5'	15.62	1.83	1.59
1	B	1781	U	O3'-P	15.62	1.84	1.61
1	B	249	C	C1'-N1	15.62	1.71	1.48
1	B	1236	G	O3'-P	15.62	1.84	1.61
1	B	2310	C	C1'-N1	15.62	1.71	1.48
1	B	435	C	C1'-N1	15.62	1.71	1.48
1	B	34	U	O3'-P	15.62	1.84	1.61
1	B	750	A	P-O5'	15.61	1.83	1.59
1	B	1393	A	P-O5'	15.61	1.83	1.59
1	B	514	A	C1'-N9	15.61	1.71	1.48
1	B	2382	G	O5'-C5'	15.61	1.65	1.42
1	B	2739	U	O3'-P	15.61	1.84	1.61
1	B	477	A	C3'-O3'	15.61	1.65	1.42
1	B	1602	U	O3'-P	15.61	1.84	1.61
1	B	1743	G	O3'-P	15.61	1.84	1.61
1	B	1990	C	C5'-C4'	15.61	1.74	1.51
1	B	2179	C	C1'-N1	15.60	1.71	1.48
1	B	345	A	O3'-P	15.60	1.84	1.61
1	B	1140	C	P-O5'	15.60	1.83	1.59
1	B	1434	A	O3'-P	15.60	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2500	U	P-O5'	15.60	1.83	1.59
1	B	706	A	C3'-O3'	15.60	1.65	1.42
1	B	1755	A	P-O5'	15.60	1.83	1.59
1	B	2685	G	C5'-C4'	15.60	1.74	1.51
1	B	50	U	P-O5'	15.60	1.83	1.59
1	B	631	A	P-O5'	15.60	1.83	1.59
1	B	2197	U	P-O5'	15.60	1.83	1.59
1	B	2478	A	O3'-P	15.60	1.84	1.61
1	B	33	C	O3'-P	15.59	1.84	1.61
1	B	499	U	O3'-P	15.59	1.84	1.61
1	B	527	C	C1'-N1	15.59	1.71	1.48
1	B	2055	C	C5'-C4'	15.59	1.74	1.51
1	B	2430	A	C1'-N9	15.59	1.71	1.48
1	B	653	U	C1'-N1	15.59	1.71	1.48
1	B	990	A	C1'-N9	15.59	1.71	1.48
1	B	1758	U	O3'-P	15.59	1.84	1.61
1	B	2355	G	O3'-P	15.59	1.84	1.61
1	B	2393	U	P-O5'	15.59	1.83	1.59
1	B	2681	C	C1'-N1	15.59	1.71	1.48
1	B	2501	C	O3'-P	15.59	1.84	1.61
1	B	219	A	O3'-P	15.59	1.84	1.61
1	B	48	G	C1'-N9	15.58	1.71	1.48
1	B	983	A	P-O5'	15.58	1.83	1.59
1	B	2583	G	P-O5'	15.58	1.83	1.59
1	B	2763	G	O3'-P	15.58	1.84	1.61
1	B	199	A	P-O5'	15.57	1.83	1.59
1	B	530	G	P-O5'	15.57	1.83	1.59
1	B	361	G	C1'-N9	15.57	1.71	1.48
1	B	1130	U	P-O5'	15.57	1.83	1.59
1	B	1819	A	O3'-P	15.57	1.84	1.61
1	B	2015	A	C1'-N9	15.56	1.71	1.48
1	B	2134	A	C1'-N9	15.56	1.71	1.48
1	B	633	A	O3'-P	15.56	1.84	1.61
1	B	2394	C	P-O5'	15.56	1.83	1.59
1	B	451	U	O3'-P	15.56	1.84	1.61
1	B	780	G	C1'-N9	15.56	1.71	1.48
1	B	2326	C	C1'-N1	15.56	1.71	1.48
1	B	1212	G	P-O5'	15.56	1.83	1.59
1	B	1390	U	O3'-P	15.56	1.84	1.61
1	B	1963	U	C1'-N1	15.56	1.71	1.48
1	B	2117	A	C1'-N9	15.55	1.71	1.48
1	B	2892	G	O3'-P	15.55	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1394	U	P-O5'	15.55	1.83	1.59
1	B	1496	A	O3'-P	15.55	1.84	1.61
1	B	749	A	P-O5'	15.55	1.83	1.59
1	B	2146	C	P-O5'	15.55	1.83	1.59
1	B	655	A	C1'-N9	15.54	1.71	1.48
1	B	1009	A	P-O5'	15.54	1.83	1.59
1	B	2411	A	O3'-P	15.55	1.84	1.61
1	B	53	A	C1'-N9	15.54	1.71	1.48
1	B	1714	U	O3'-P	15.54	1.84	1.61
1	B	705	A	C1'-N9	15.54	1.71	1.48
1	B	961	C	O3'-P	15.54	1.84	1.61
1	B	1397	U	O3'-P	15.54	1.84	1.61
1	B	2848	G	P-O5'	15.54	1.83	1.59
1	B	2764	A	P-O5'	15.54	1.83	1.59
1	B	632	A	P-O5'	15.53	1.83	1.59
1	B	804	A	O3'-P	15.53	1.84	1.61
1	B	618	G	O3'-P	15.53	1.84	1.61
1	B	556	A	P-O5'	15.53	1.83	1.59
1	B	670	A	C5'-C4'	15.52	1.74	1.51
1	B	1719	G	P-O5'	15.52	1.83	1.59
1	B	1652	A	C1'-N9	15.52	1.71	1.48
1	B	2225	A	P-O5'	15.52	1.83	1.59
1	B	2866	U	O3'-P	15.52	1.84	1.61
1	B	1460	U	C1'-N1	15.52	1.71	1.48
1	B	1534	U	P-O5'	15.52	1.83	1.59
1	B	514	A	P-O5'	15.51	1.83	1.59
1	B	1693	U	P-O5'	15.51	1.83	1.59
1	B	138	U	C1'-N1	15.51	1.71	1.48
1	B	478	A	C5'-C4'	15.51	1.74	1.51
1	B	728	G	P-O5'	15.51	1.83	1.59
1	B	791	C	C1'-N1	15.51	1.71	1.48
1	B	2109	U	O3'-P	15.51	1.84	1.61
1	B	1272	A	C1'-N9	15.50	1.71	1.48
1	B	2573	C	P-O5'	15.50	1.83	1.59
1	B	865	C	O3'-P	15.50	1.84	1.61
1	B	1445	G	C1'-N9	15.50	1.71	1.48
1	B	1495	A	P-O5'	15.50	1.83	1.59
1	B	228	C	C1'-N1	15.50	1.71	1.48
1	B	255	A	O3'-P	15.50	1.84	1.61
1	B	641	U	O3'-P	15.50	1.84	1.61
1	B	726	G	P-O5'	15.50	1.83	1.59
1	B	1325	U	C5'-C4'	15.50	1.74	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2807	U	O3'-P	15.50	1.84	1.61
1	B	2849	U	C1'-N1	15.49	1.71	1.48
1	B	1466	U	C3'-O3'	15.49	1.65	1.42
1	B	1632	A	P-O5'	15.49	1.82	1.59
1	B	2390	U	O3'-P	15.49	1.84	1.61
1	B	2457	U	O3'-P	15.49	1.84	1.61
1	B	944	C	C1'-N1	15.49	1.71	1.48
1	B	2223	G	O3'-P	15.49	1.84	1.61
1	B	2734	A	O3'-P	15.49	1.84	1.61
1	B	574	A	O3'-P	15.48	1.84	1.61
1	B	1391	U	P-O5'	15.48	1.82	1.59
1	B	1852	U	C1'-N1	15.48	1.71	1.48
1	B	570	G	C3'-O3'	15.48	1.65	1.42
1	B	2268	A	P-O5'	15.48	1.82	1.59
1	B	2775	G	C1'-N9	15.48	1.71	1.48
1	B	370	G	O3'-P	15.48	1.84	1.61
1	B	1367	A	P-O5'	15.48	1.82	1.59
1	B	1875	G	C1'-N9	15.48	1.71	1.48
1	B	2858	C	C1'-N1	15.48	1.71	1.48
1	B	914	G	P-O5'	15.48	1.82	1.59
1	B	1263	U	P-O5'	15.47	1.82	1.59
1	B	2327	A	C3'-O3'	15.47	1.65	1.42
1	B	374	A	O3'-P	15.47	1.84	1.61
1	B	1493	C	C1'-N1	15.47	1.71	1.48
1	B	531	C	C1'-N1	15.46	1.71	1.48
1	B	1783	A	P-O5'	15.47	1.82	1.59
1	B	2226	C	O3'-P	15.47	1.84	1.61
1	B	646	U	P-O5'	15.46	1.82	1.59
1	B	699	A	C5'-C4'	15.46	1.74	1.51
1	B	790	U	O3'-P	15.46	1.84	1.61
1	B	820	A	P-O5'	15.46	1.82	1.59
1	B	1174	U	P-O5'	15.46	1.82	1.59
1	B	1715	G	P-O5'	15.46	1.82	1.59
1	B	1990	C	C1'-N1	15.46	1.71	1.48
1	B	2061	G	C3'-O3'	15.46	1.65	1.42
1	B	1692	U	C1'-N1	15.46	1.71	1.48
1	B	2824	C	C1'-N1	15.46	1.71	1.48
1	B	463	G	O3'-P	15.46	1.84	1.61
1	B	1848	A	C1'-N9	15.46	1.70	1.47
1	B	2244	U	O3'-P	15.46	1.84	1.61
1	B	459	U	O3'-P	15.45	1.84	1.61
1	B	2345	G	C1'-N9	15.45	1.71	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1882	U	O3'-P	15.45	1.84	1.61
1	B	1996	C	C1'-N1	15.45	1.71	1.48
1	B	2502	G	P-O5'	15.45	1.82	1.59
1	B	1418	G	C1'-N9	15.45	1.71	1.48
1	B	2394	C	C3'-O3'	15.45	1.65	1.42
1	B	98	G	C5'-C4'	15.44	1.74	1.51
1	B	372	G	O3'-P	15.44	1.84	1.61
1	B	1434	A	P-O5'	15.44	1.82	1.59
1	B	101	A	P-O5'	15.44	1.82	1.59
1	B	163	C	C1'-N1	15.44	1.71	1.48
1	B	508	A	O3'-P	15.44	1.84	1.61
1	B	780	G	O3'-P	15.44	1.84	1.61
1	B	1951	U	C1'-N1	15.44	1.70	1.47
1	B	1045	C	O3'-P	15.44	1.84	1.61
1	B	2171	A	O3'-P	15.44	1.84	1.61
1	B	2283	C	C1'-N1	15.44	1.71	1.48
1	B	1955	U	P-O5'	15.44	1.82	1.59
1	B	2468	A	C1'-N9	15.44	1.71	1.48
1	B	684	G	C1'-N9	15.43	1.71	1.48
1	B	1109	C	O3'-P	15.43	1.84	1.61
1	B	2018	G	P-O5'	15.43	1.82	1.59
1	B	2778	A	P-O5'	15.43	1.82	1.59
1	B	2164	C	P-O5'	15.43	1.82	1.59
1	B	637	A	C1'-N9	15.43	1.71	1.48
1	B	1366	A	P-O5'	15.43	1.82	1.59
1	B	1115	G	C1'-N9	15.43	1.71	1.48
1	B	1359	A	O3'-P	15.43	1.84	1.61
1	B	2147	A	P-O5'	15.43	1.82	1.59
1	B	608	A	O3'-P	15.42	1.84	1.61
1	B	2028	U	O3'-P	15.42	1.84	1.61
1	B	2894	G	P-O5'	15.42	1.82	1.59
1	B	10	A	O3'-P	15.42	1.84	1.61
1	B	244	A	P-O5'	15.42	1.82	1.59
1	B	871	U	P-O5'	15.42	1.82	1.59
1	B	1757	A	O3'-P	15.42	1.84	1.61
1	B	1838	C	C1'-N1	15.42	1.71	1.48
1	B	1693	U	O3'-P	15.42	1.84	1.61
1	B	1969	A	C1'-N9	15.42	1.71	1.48
1	B	2704	C	C1'-N1	15.42	1.71	1.48
1	B	941	A	C3'-O3'	15.42	1.65	1.42
1	B	1524	G	P-O5'	15.42	1.82	1.59
1	B	509	C	P-O5'	15.41	1.82	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	782	A	P-O5'	15.41	1.82	1.59
1	B	827	U	O3'-P	15.41	1.84	1.61
1	B	1040	A	O3'-P	15.41	1.84	1.61
1	B	2171	A	P-O5'	15.41	1.82	1.59
1	B	450	G	O3'-P	15.41	1.84	1.61
1	B	2701	U	O3'-P	15.41	1.84	1.61
1	B	791	C	O3'-P	15.40	1.84	1.61
1	B	1288	G	C3'-O3'	15.40	1.65	1.42
1	B	2406	A	C1'-N9	15.40	1.71	1.48
1	B	2493	U	C1'-N1	15.40	1.71	1.48
1	B	466	A	P-O5'	15.40	1.82	1.59
1	B	1603	A	O3'-P	15.40	1.84	1.61
1	B	2597	G	P-O5'	15.40	1.82	1.59
1	B	2754	U	O3'-P	15.40	1.84	1.61
1	B	2738	A	C1'-N9	15.40	1.71	1.48
1	B	141	G	C1'-N9	15.40	1.71	1.48
1	B	1392	A	P-O5'	15.40	1.82	1.59
1	B	1816	C	C1'-N1	15.40	1.71	1.48
1	B	1286	A	P-O5'	15.40	1.82	1.59
1	B	982	C	C1'-N1	15.39	1.71	1.48
1	B	1141	U	P-O5'	15.39	1.82	1.59
1	B	532	A	P-O5'	15.39	1.82	1.59
1	B	943	A	P-O5'	15.39	1.82	1.59
1	B	1469	A	O3'-P	15.39	1.84	1.61
1	B	1744	A	P-O5'	15.39	1.82	1.59
1	B	2130	U	O3'-P	15.39	1.84	1.61
1	B	2475	C	P-O5'	15.39	1.82	1.59
1	B	1889	A	O3'-P	15.39	1.84	1.61
1	B	1965	C	C1'-N1	15.39	1.71	1.48
1	B	1026	G	O3'-P	15.39	1.84	1.61
1	B	490	C	P-O5'	15.38	1.82	1.59
1	B	1654	A	C1'-N9	15.38	1.71	1.48
1	B	857	G	C3'-O3'	15.38	1.65	1.42
1	B	920	A	O3'-P	15.38	1.84	1.61
1	B	1761	C	P-O5'	15.38	1.82	1.59
1	B	2163	A	O3'-P	15.38	1.84	1.61
1	B	1392	A	O3'-P	15.38	1.84	1.61
1	B	1745	A	P-O5'	15.38	1.82	1.59
1	B	1773	A	P-O5'	15.38	1.82	1.59
1	B	1875	G	O3'-P	15.38	1.84	1.61
1	B	2573	C	C1'-N1	15.38	1.71	1.48
1	B	749	A	O3'-P	15.38	1.84	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1397	U	P-O5'	15.38	1.82	1.59
1	B	1869	G	P-O5'	15.38	1.82	1.59
1	B	2602	A	O3'-P	15.38	1.84	1.61
1	B	1372	U	P-O5'	15.37	1.82	1.59
1	B	366	C	O3'-P	15.37	1.84	1.61
1	B	1597	A	O3'-P	15.37	1.84	1.61
1	B	63	A	P-O5'	15.37	1.82	1.59
1	B	2872	A	C3'-O3'	15.37	1.65	1.42
1	B	330	A	C3'-O3'	15.36	1.65	1.42
1	B	488	G	P-O5'	15.37	1.82	1.59
1	B	1490	A	P-O5'	15.37	1.82	1.59
1	B	2158	A	C1'-N9	15.37	1.71	1.48
1	B	2213	U	P-O5'	15.36	1.82	1.59
1	B	2145	C	C1'-N1	15.36	1.71	1.48
1	B	2504	U	C3'-O3'	15.36	1.65	1.42
1	B	2873	A	O3'-P	15.36	1.84	1.61
1	B	1558	C	C1'-N1	15.36	1.71	1.48
1	B	1566	A	P-O5'	15.36	1.82	1.59
1	B	1752	C	C1'-N1	15.36	1.71	1.48
1	B	1996	C	P-O5'	15.36	1.82	1.59
1	B	2439	A	C5'-C4'	15.36	1.74	1.51
1	B	2719	G	O3'-P	15.36	1.84	1.61
1	B	280	U	C3'-O3'	15.35	1.65	1.42
1	B	2450	A	C5'-C4'	15.35	1.74	1.51
1	B	1981	A	O3'-P	15.35	1.84	1.61
1	B	944	C	O3'-P	15.35	1.84	1.61
1	B	1188	U	O3'-P	15.35	1.84	1.61
1	B	1866	A	C3'-O3'	15.35	1.65	1.42
1	B	505	A	P-O5'	15.34	1.82	1.59
1	B	280	U	C1'-N1	15.34	1.71	1.48
1	B	791	C	P-O5'	15.34	1.82	1.59
1	B	2452	C	C1'-N1	15.34	1.71	1.48
1	B	320	A	O5'-C5'	15.34	1.65	1.42
1	B	713	G	O3'-P	15.34	1.84	1.61
1	B	2584	U	O3'-P	15.34	1.84	1.61
1	B	346	A	P-O5'	15.33	1.82	1.59
1	B	1175	A	P-O5'	15.33	1.82	1.59
1	B	918	A	O3'-P	15.33	1.84	1.61
1	B	1466	U	C1'-N1	15.33	1.71	1.48
1	B	140	C	P-O5'	15.33	1.82	1.59
1	B	454	A	P-O5'	15.33	1.82	1.59
1	B	619	G	P-O5'	15.33	1.82	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1393	A	O3'-P	15.33	1.84	1.61
1	B	2565	A	P-O5'	15.33	1.82	1.59
1	B	82	U	O3'-P	15.32	1.84	1.61
1	B	199	A	O3'-P	15.32	1.84	1.61
1	B	1127	A	O3'-P	15.32	1.84	1.61
1	B	322	A	C1'-N9	15.32	1.71	1.48
1	B	1773	A	O3'-P	15.32	1.84	1.61
1	B	2809	A	P-O5'	15.32	1.82	1.59
1	B	2076	U	P-O5'	15.32	1.82	1.59
1	B	1670	C	O3'-P	15.31	1.84	1.61
1	B	1833	C	O3'-P	15.31	1.84	1.61
1	B	995	C	C1'-N1	15.31	1.71	1.48
1	B	2238	G	P-O5'	15.31	1.82	1.59
1	B	1394	U	O3'-P	15.31	1.84	1.61
1	B	1582	C	P-O5'	15.31	1.82	1.59
1	B	1496	A	P-O5'	15.31	1.82	1.59
1	B	2472	G	P-O5'	15.31	1.82	1.59
1	B	207	A	C1'-N9	15.30	1.71	1.48
1	B	1509	A	O3'-P	15.30	1.84	1.61
1	B	2424	C	C3'-O3'	15.31	1.65	1.42
1	B	2799	A	O3'-P	15.30	1.84	1.61
1	B	807	U	O3'-P	15.30	1.84	1.61
1	B	2748	A	P-O5'	15.30	1.82	1.59
1	B	575	A	O3'-P	15.30	1.84	1.61
1	B	2005	A	O3'-P	15.30	1.84	1.61
1	B	243	U	O3'-P	15.30	1.84	1.61
1	B	887	U	P-O5'	15.30	1.82	1.59
1	B	2031	A	P-O5'	15.30	1.82	1.59
1	B	1675	C	P-O5'	15.30	1.82	1.59
1	B	61	C	O3'-P	15.30	1.84	1.61
1	B	1692	U	P-O5'	15.29	1.82	1.59
1	B	2564	A	O3'-P	15.29	1.84	1.61
1	B	1525	A	C1'-N9	15.29	1.70	1.48
1	B	2806	C	O3'-P	15.29	1.84	1.61
1	B	1701	A	P-O5'	15.29	1.82	1.59
1	B	645	C	C1'-N1	15.29	1.71	1.48
1	B	863	A	P-O5'	15.29	1.82	1.59
1	B	1111	A	P-O5'	15.28	1.82	1.59
1	B	1885	A	C1'-N9	15.28	1.70	1.48
1	B	2226	C	P-O5'	15.28	1.82	1.59
1	B	2467	C	C1'-N1	15.28	1.71	1.48
1	B	780	G	P-O5'	15.28	1.82	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1839	G	P-O5'	15.28	1.82	1.59
1	B	1202	G	O3'-P	15.27	1.84	1.61
1	B	229	C	P-O5'	15.27	1.82	1.59
1	B	725	G	P-O5'	15.27	1.82	1.59
1	B	761	A	C3'-O3'	15.27	1.65	1.42
1	B	2704	C	P-O5'	15.27	1.82	1.59
1	B	249	C	P-O5'	15.26	1.82	1.59
1	B	1688	U	P-O5'	15.26	1.82	1.59
1	B	817	C	O3'-P	15.26	1.84	1.61
1	B	2029	G	P-O5'	15.26	1.82	1.59
1	B	1445	G	C5'-C4'	15.26	1.74	1.51
1	B	943	A	C1'-N9	15.26	1.70	1.48
1	B	1876	A	C1'-N9	15.26	1.70	1.48
1	B	2720	U	O3'-P	15.26	1.84	1.61
1	B	2770	G	C1'-N9	15.26	1.70	1.48
1	B	2808	G	P-O5'	15.26	1.82	1.59
1	B	2705	A	O3'-P	15.25	1.84	1.61
1	B	2055	C	C3'-O3'	15.25	1.65	1.42
1	B	2076	U	C3'-O3'	15.25	1.65	1.42
1	B	1689	A	C1'-N9	15.25	1.70	1.48
1	B	2503	A	P-O5'	15.25	1.82	1.59
1	B	1513	U	O3'-P	15.24	1.84	1.61
1	B	2014	A	O3'-P	15.24	1.84	1.61
1	B	126	A	O3'-P	15.24	1.84	1.61
1	B	2566	A	P-O5'	15.24	1.82	1.59
1	B	64	A	C3'-O3'	15.24	1.65	1.42
1	B	510	C	P-O5'	15.24	1.82	1.59
1	B	837	C	P-O5'	15.24	1.82	1.59
1	B	1353	A	O3'-P	15.24	1.84	1.61
1	B	1899	A	O3'-P	15.24	1.84	1.61
1	B	1009	A	C1'-N9	15.23	1.70	1.48
1	B	2891	U	O3'-P	15.23	1.83	1.61
1	B	382	A	O3'-P	15.23	1.83	1.61
1	B	565	C	C1'-N1	15.23	1.71	1.48
1	B	1837	C	O3'-P	15.23	1.83	1.61
1	B	1255	U	C1'-N1	15.23	1.71	1.48
1	B	1210	G	O3'-P	15.23	1.83	1.61
1	B	1583	A	P-O5'	15.23	1.82	1.59
1	B	1952	A	O3'-P	15.23	1.83	1.61
1	B	1396	U	P-O5'	15.22	1.82	1.59
1	B	1632	A	O3'-P	15.22	1.83	1.61
1	B	1755	A	C1'-N9	15.22	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1953	A	O3'-P	15.22	1.83	1.61
1	B	2780	G	P-O5'	15.22	1.82	1.59
1	B	198	C	C1'-N1	15.22	1.71	1.48
1	B	511	U	C3'-O3'	15.22	1.65	1.42
1	B	889	C	C1'-N1	15.22	1.71	1.48
1	B	1140	C	O3'-P	15.22	1.83	1.61
1	B	1285	A	O3'-P	15.22	1.83	1.61
1	B	1364	G	O3'-P	15.22	1.83	1.61
1	B	714	U	P-O5'	15.22	1.82	1.59
1	B	1428	C	C5'-C4'	15.22	1.74	1.51
1	B	2131	U	P-O5'	15.22	1.82	1.59
1	B	2749	A	C1'-N9	15.22	1.70	1.48
1	B	932	U	O3'-P	15.22	1.83	1.61
1	B	2377	A	C1'-N9	15.22	1.70	1.48
1	B	507	A	P-O5'	15.21	1.82	1.59
1	B	654	A	O3'-P	15.21	1.83	1.61
1	B	2376	A	O3'-P	15.22	1.83	1.61
1	B	805	G	P-O5'	15.21	1.82	1.59
1	B	2275	C	P-O5'	15.21	1.82	1.59
1	B	62	U	O3'-P	15.21	1.83	1.61
1	B	138	U	P-O5'	15.21	1.82	1.59
1	B	677	A	C1'-N9	15.21	1.70	1.48
1	B	2572	A	O3'-P	15.21	1.83	1.61
1	B	2776	A	P-O5'	15.21	1.82	1.59
1	B	2812	G	O3'-P	15.21	1.83	1.61
1	B	538	A	C1'-N9	15.21	1.70	1.48
1	B	387	U	P-O5'	15.20	1.82	1.59
1	B	573	U	P-O5'	15.20	1.82	1.59
1	B	955	U	O3'-P	15.20	1.83	1.61
1	B	957	C	P-O5'	15.20	1.82	1.59
1	B	587	C	C1'-N1	15.20	1.71	1.48
1	B	2448	A	C1'-N9	15.20	1.70	1.48
1	B	2530	A	P-O5'	15.20	1.82	1.59
1	B	2565	A	C1'-N9	15.20	1.70	1.48
1	B	2723	C	C1'-N1	15.20	1.71	1.48
1	B	2789	C	O3'-P	15.20	1.83	1.61
1	B	2882	A	O3'-P	15.20	1.83	1.61
1	B	332	A	O3'-P	15.20	1.83	1.61
1	B	1691	C	C1'-N1	15.19	1.71	1.48
1	B	2109	U	C1'-N1	15.20	1.71	1.48
1	B	248	G	P-O5'	15.19	1.82	1.59
1	B	453	A	O3'-P	15.19	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	587	C	C5'-C4'	15.19	1.74	1.51
1	B	1283	G	P-O5'	15.19	1.82	1.59
1	B	1977	A	C1'-N9	15.19	1.70	1.48
1	B	1526	C	O3'-P	15.19	1.83	1.61
1	B	1581	G	O3'-P	15.19	1.83	1.61
1	B	828	U	P-O5'	15.19	1.82	1.59
1	B	1730	C	P-O5'	15.19	1.82	1.59
1	B	2162	G	O3'-P	15.19	1.83	1.61
1	B	2306	C	P-O5'	15.19	1.82	1.59
1	B	727	A	O3'-P	15.19	1.83	1.61
1	B	1265	A	P-O5'	15.18	1.82	1.59
1	B	1586	A	C1'-N9	15.18	1.70	1.48
1	B	1760	C	C1'-N1	15.18	1.71	1.48
1	B	1914	C	C1'-N1	15.18	1.71	1.48
1	B	198	C	O3'-P	15.18	1.83	1.61
1	B	1494	A	P-O5'	15.18	1.82	1.59
1	B	1535	A	P-O5'	15.18	1.82	1.59
1	B	504	A	O3'-P	15.18	1.83	1.61
1	B	367	G	P-O5'	15.18	1.82	1.59
1	B	1282	U	O3'-P	15.18	1.83	1.61
1	B	1457	U	P-O5'	15.18	1.82	1.59
1	B	1930	G	O3'-P	15.18	1.83	1.61
1	B	2116	G	O3'-P	15.18	1.83	1.61
1	B	2687	U	C1'-N1	15.18	1.71	1.48
1	B	2688	G	O3'-P	15.18	1.83	1.61
1	B	546	U	P-O5'	15.17	1.82	1.59
1	B	1000	A	O3'-P	15.17	1.83	1.61
1	B	1598	A	P-O5'	15.17	1.82	1.59
1	B	491	G	P-O5'	15.17	1.82	1.59
1	B	2826	A	O3'-P	15.17	1.83	1.61
1	B	1810	A	P-O5'	15.17	1.82	1.59
1	B	243	U	P-O5'	15.17	1.82	1.59
1	B	1357	C	O3'-P	15.17	1.83	1.61
1	B	2030	1MA	O3'-P	15.17	1.83	1.61
1	B	1952	A	C5'-C4'	15.17	1.74	1.51
1	B	2856	A	O3'-P	15.17	1.83	1.61
1	B	177	G	O3'-P	15.16	1.83	1.61
1	B	781	A	O3'-P	15.16	1.83	1.61
1	B	2185	U	O3'-P	15.16	1.83	1.61
1	B	2790	U	O3'-P	15.16	1.83	1.61
1	B	1154	G	O3'-P	15.16	1.83	1.61
1	B	2324	U	O3'-P	15.16	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2269	G	P-O5'	15.16	1.82	1.59
1	B	2824	C	P-O5'	15.16	1.82	1.59
1	B	195	A	O3'-P	15.16	1.83	1.61
1	B	577	G	O3'-P	15.16	1.83	1.61
1	B	178	G	P-O5'	15.16	1.82	1.59
1	B	562	U	O3'-P	15.16	1.83	1.61
1	B	2798	U	P-O5'	15.16	1.82	1.59
1	B	573	U	C3'-O3'	15.15	1.64	1.42
1	B	1266	G	P-O5'	15.15	1.82	1.59
1	B	1631	G	C1'-N9	15.15	1.70	1.48
1	B	555	G	O3'-P	15.15	1.83	1.61
1	B	2198	A	P-O5'	15.15	1.82	1.59
1	B	2352	A	P-O5'	15.15	1.82	1.59
1	B	2702	G	P-O5'	15.15	1.82	1.59
1	B	126	A	P-O5'	15.15	1.82	1.59
1	B	140	C	C1'-N1	15.15	1.71	1.48
1	B	164	C	C1'-N1	15.15	1.71	1.48
1	B	412	A	C1'-N9	15.15	1.70	1.48
1	B	1580	A	O3'-P	15.15	1.83	1.61
1	B	1729	U	P-O5'	15.15	1.82	1.59
1	B	233	A	C1'-N9	15.14	1.70	1.48
1	B	1372	U	C1'-N1	15.14	1.71	1.48
1	B	1872	A	P-O5'	15.14	1.82	1.59
1	B	2213	U	C1'-N1	15.14	1.71	1.48
1	B	1211	C	C1'-N1	15.14	1.71	1.48
1	B	1937	A	O3'-P	15.14	1.83	1.61
1	B	2532	G	P-O5'	15.14	1.82	1.59
1	B	1728	C	C1'-N1	15.14	1.71	1.48
1	B	1870	C	O3'-P	15.14	1.83	1.61
1	B	2018	G	O3'-P	15.14	1.83	1.61
1	B	2423	U	C1'-N1	15.13	1.71	1.48
1	B	383	C	P-O5'	15.13	1.82	1.59
1	B	2058	A	O3'-P	15.13	1.83	1.61
1	B	2132	U	P-O5'	15.13	1.82	1.59
1	B	2146	C	C1'-N1	15.13	1.71	1.48
1	B	2610	C	C1'-N1	15.13	1.71	1.48
1	B	2469	A	C5'-C4'	15.13	1.74	1.51
1	B	160	A	P-O5'	15.12	1.82	1.59
1	B	2686	G	P-O5'	15.12	1.82	1.59
1	B	322	A	C5'-C4'	15.12	1.74	1.51
1	B	576	U	O3'-P	15.12	1.83	1.61
1	B	1653	G	O3'-P	15.12	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2306	C	C1'-N1	15.12	1.71	1.48
1	B	2426	A	C1'-N9	15.12	1.70	1.48
1	B	2270	A	P-O5'	15.12	1.82	1.59
1	B	456	C	P-O5'	15.12	1.82	1.59
1	B	545	U	P-O5'	15.12	1.82	1.59
1	B	575	A	P-O5'	15.12	1.82	1.59
1	B	585	G	P-O5'	15.12	1.82	1.59
1	B	1671	U	P-O5'	15.12	1.82	1.59
1	B	2325	G	O3'-P	15.12	1.83	1.61
1	B	561	G	C1'-N9	15.12	1.70	1.48
1	B	865	C	C1'-N1	15.12	1.71	1.48
1	B	1341	G	O3'-P	15.12	1.83	1.61
1	B	2361	G	O3'-P	15.12	1.83	1.61
1	B	276	U	C5'-C4'	15.12	1.74	1.51
1	B	563	A	P-O5'	15.12	1.82	1.59
1	B	870	U	O3'-P	15.12	1.83	1.61
1	B	1329	U	P-O5'	15.12	1.82	1.59
1	B	1759	A	P-O5'	15.12	1.82	1.59
1	B	2440	C	P-O5'	15.11	1.82	1.59
1	B	2469	A	C3'-O3'	15.12	1.64	1.42
1	B	443	A	P-O5'	15.11	1.82	1.59
1	B	1616	A	P-O5'	15.11	1.82	1.59
1	B	2014	A	P-O5'	15.11	1.82	1.59
1	B	1800	C	O3'-P	15.11	1.83	1.61
1	B	1883	U	P-O5'	15.11	1.82	1.59
1	B	2822	G	O3'-P	15.11	1.83	1.61
1	B	1689	A	P-O5'	15.11	1.82	1.59
1	B	469	G	P-O5'	15.11	1.82	1.59
1	B	2059	A	P-O5'	15.11	1.82	1.59
1	B	160	A	O3'-P	15.11	1.83	1.61
1	B	1536	C	P-O5'	15.11	1.82	1.59
1	B	124	G	O3'-P	15.10	1.83	1.61
1	B	139	U	O3'-P	15.10	1.83	1.61
1	B	2156	G	C1'-N9	15.10	1.70	1.48
1	B	2481	G	O3'-P	15.10	1.83	1.61
1	B	2585	U	P-O5'	15.10	1.82	1.59
1	B	717	C	C1'-N1	15.10	1.71	1.48
1	B	827	U	C1'-N1	15.10	1.71	1.48
1	B	888	C	P-O5'	15.10	1.82	1.59
1	B	2266	A	P-O5'	15.10	1.82	1.59
1	B	242	G	O3'-P	15.10	1.83	1.61
1	B	227	A	P-O5'	15.09	1.82	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	432	A	C1'-N9	15.09	1.70	1.48
1	B	466	A	O3'-P	15.09	1.83	1.61
1	B	531	C	O3'-P	15.09	1.83	1.61
1	B	920	A	C1'-N9	15.09	1.70	1.48
1	B	944	C	P-O5'	15.09	1.82	1.59
1	B	1433	A	P-O5'	15.09	1.82	1.59
1	B	250	G	P-O5'	15.09	1.82	1.59
1	B	1698	A	O3'-P	15.09	1.83	1.61
1	B	1700	A	P-O5'	15.09	1.82	1.59
1	B	2320	U	O3'-P	15.09	1.83	1.61
1	B	888	C	C1'-N1	15.09	1.71	1.48
1	B	1173	U	O3'-P	15.09	1.83	1.61
1	B	2422	C	C1'-N1	15.09	1.71	1.48
1	B	2712	C	C1'-N1	15.09	1.71	1.48
1	B	27	G	C1'-N9	15.08	1.70	1.48
1	B	1692	U	O3'-P	15.08	1.83	1.61
1	B	1913	A	P-O5'	15.08	1.82	1.59
1	B	2859	G	P-O5'	15.08	1.82	1.59
1	B	886	A	O3'-P	15.08	1.83	1.61
1	B	2298	A	O3'-P	15.07	1.83	1.61
1	B	2474	U	O3'-P	15.07	1.83	1.61
1	B	2596	U	P-O5'	15.07	1.82	1.59
1	B	307	G	O3'-P	15.07	1.83	1.61
1	B	2752	C	C1'-N1	15.07	1.71	1.48
1	B	1226	A	P-O5'	15.07	1.82	1.59
1	B	1859	U	C1'-N1	15.07	1.71	1.48
1	B	2305	U	C1'-N1	15.07	1.71	1.48
1	B	2756	U	P-O5'	15.07	1.82	1.59
1	B	1458	U	C1'-N1	15.06	1.71	1.48
1	B	1615	C	C1'-N1	15.06	1.71	1.48
1	B	2798	U	O3'-P	15.06	1.83	1.61
1	B	1012	U	C1'-N1	15.06	1.71	1.48
1	B	1495	A	O3'-P	15.06	1.83	1.61
1	B	1340	U	C1'-N1	15.06	1.71	1.48
1	B	1458	U	P-O5'	15.06	1.82	1.59
1	B	2529	G	O3'-P	15.06	1.83	1.61
1	B	1001	A	O3'-P	15.06	1.83	1.61
1	B	1214	A	O3'-P	15.05	1.83	1.61
1	B	1737	G	C1'-N9	15.05	1.70	1.48
1	B	1858	A	C1'-N9	15.05	1.70	1.48
1	B	1954	G	O3'-P	15.05	1.83	1.61
1	B	2068	U	C1'-N1	15.05	1.71	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	713	G	P-O5'	15.05	1.82	1.59
1	B	1698	A	P-O5'	15.05	1.82	1.59
1	B	202	U	C3'-O3'	15.05	1.64	1.42
1	B	1631	G	O3'-P	15.05	1.83	1.61
1	B	1772	A	O3'-P	15.05	1.83	1.61
1	B	819	A	O3'-P	15.05	1.83	1.61
1	B	1944	U	C5'-C4'	15.05	1.81	1.51
1	B	2713	U	C1'-N1	15.05	1.71	1.48
1	B	1223	G	P-O5'	15.04	1.82	1.59
1	B	751	A	O3'-P	15.04	1.83	1.61
1	B	2850	A	C1'-N9	15.04	1.70	1.48
1	B	513	A	C1'-N9	15.04	1.70	1.48
1	B	2823	A	O3'-P	15.04	1.83	1.61
1	B	500	G	P-O5'	15.04	1.82	1.59
1	B	1687	G	O3'-P	15.04	1.83	1.61
1	B	1493	C	O3'-P	15.04	1.83	1.61
1	B	1720	U	P-O5'	15.04	1.82	1.59
1	B	885	C	O3'-P	15.04	1.83	1.61
1	B	2351	G	P-O5'	15.04	1.82	1.59
1	B	2644	G	P-O5'	15.04	1.82	1.59
1	B	602	A	C1'-N9	15.03	1.70	1.48
1	B	223	A	P-O5'	15.03	1.82	1.59
1	B	1371	G	O3'-P	15.03	1.83	1.61
1	B	528	A	O3'-P	15.03	1.83	1.61
1	B	9	G	C3'-O3'	15.03	1.64	1.42
1	B	644	A	P-O5'	15.03	1.82	1.59
1	B	875	G	O3'-P	15.03	1.83	1.61
1	B	1358	G	P-O5'	15.03	1.82	1.59
1	B	1854	A	C1'-N9	15.03	1.70	1.48
1	B	1962	C	C1'-N1	15.03	1.71	1.48
1	B	2275	C	C1'-N1	15.03	1.71	1.48
1	B	2721	A	P-O5'	15.03	1.82	1.59
1	B	385	C	P-O5'	15.03	1.82	1.59
1	B	547	A	P-O5'	15.03	1.82	1.59
1	B	616	A	P-O5'	15.03	1.82	1.59
1	B	2075	U	O3'-P	15.03	1.83	1.61
1	B	1732	C	P-O5'	15.02	1.82	1.59
1	B	1359	A	P-O5'	15.02	1.82	1.59
1	B	1699	G	P-O5'	15.02	1.82	1.59
1	B	49	A	O3'-P	15.02	1.83	1.61
1	B	505	A	C1'-N9	15.02	1.70	1.48
1	B	1571	A	C1'-N9	15.02	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1617	C	C1'-N1	15.02	1.71	1.48
1	B	2245	U	P-O5'	15.02	1.82	1.59
1	B	2685	G	O3'-P	15.02	1.83	1.61
1	B	120	U	C1'-N1	15.01	1.78	1.48
1	B	584	C	O3'-P	15.01	1.83	1.61
1	B	1691	C	O3'-P	15.01	1.83	1.61
1	B	545	U	O3'-P	15.01	1.83	1.61
1	B	979	A	O3'-P	15.01	1.83	1.61
1	B	1264	A	O3'-P	15.01	1.83	1.61
1	B	1675	C	O3'-P	15.01	1.83	1.61
1	B	1544	A	P-O5'	15.01	1.82	1.59
1	B	1514	G	O3'-P	15.01	1.83	1.61
1	B	2483	C	C1'-N1	15.01	1.71	1.48
1	B	2643	G	O3'-P	15.00	1.83	1.61
1	B	979	A	P-O5'	15.00	1.82	1.59
1	B	1285	A	P-O5'	15.00	1.82	1.59
1	B	2116	G	P-O5'	15.00	1.82	1.59
1	B	896	A	C3'-O3'	15.00	1.64	1.42
1	B	1606	C	C1'-N1	15.00	1.71	1.48
1	B	2311	A	P-O5'	15.00	1.82	1.59
1	B	1744	A	O3'-P	15.00	1.83	1.61
1	B	861	A	C3'-O3'	15.00	1.64	1.42
1	B	1718	G	O3'-P	14.99	1.83	1.61
1	B	2252	G	P-O5'	14.99	1.82	1.59
1	B	214	G	C1'-N9	14.98	1.70	1.48
1	B	2267	A	P-O5'	14.98	1.82	1.59
1	B	490	C	C1'-N1	14.98	1.71	1.48
1	B	615	U	P-O5'	14.98	1.82	1.59
1	B	783	A	C1'-N9	14.98	1.70	1.48
1	B	1731	G	P-O5'	14.98	1.82	1.59
1	B	2305	U	P-O5'	14.98	1.82	1.59
1	B	2847	U	O3'-P	14.98	1.83	1.61
1	B	339	U	P-O5'	14.98	1.82	1.59
1	B	388	G	O3'-P	14.98	1.83	1.61
1	B	1647	U	C1'-N1	14.98	1.71	1.48
1	B	1674	G	P-O5'	14.98	1.82	1.59
1	B	2480	C	O3'-P	14.98	1.83	1.61
1	B	988	A	C5'-C4'	14.98	1.73	1.51
1	B	2534	A	P-O5'	14.98	1.82	1.59
1	B	642	U	P-O5'	14.97	1.82	1.59
1	B	1196	C	C5'-C4'	14.97	1.73	1.51
1	B	1284	A	C1'-N9	14.97	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1366	A	O3'-P	14.97	1.83	1.61
1	B	1609	A	C1'-N9	14.97	1.70	1.48
1	B	1723	G	P-O5'	14.97	1.82	1.59
1	B	1953	A	P-O5'	14.97	1.82	1.59
1	B	2016	U	C1'-N1	14.97	1.71	1.48
1	B	2146	C	O3'-P	14.97	1.83	1.61
1	B	330	A	P-O5'	14.97	1.82	1.59
1	B	819	A	P-O5'	14.97	1.82	1.59
1	B	1546	G	C3'-O3'	14.97	1.64	1.42
1	B	1802	A	C1'-N9	14.97	1.70	1.48
1	B	2168	G	C5'-C4'	14.97	1.73	1.51
1	B	2325	G	P-O5'	14.97	1.82	1.59
1	B	2477	U	P-O5'	14.97	1.82	1.59
1	B	308	G	P-O5'	14.97	1.82	1.59
1	B	309	A	P-O5'	14.97	1.82	1.59
1	B	2857	G	P-O5'	14.97	1.82	1.59
1	B	1728	C	O3'-P	14.96	1.83	1.61
1	B	1122	G	P-O5'	14.96	1.82	1.59
1	B	1176	U	P-O5'	14.96	1.82	1.59
1	B	2377	A	P-O5'	14.96	1.82	1.59
1	B	2499	C	O3'-P	14.96	1.83	1.61
1	B	1915	5MU	O3'-P	14.96	1.83	1.61
1	B	2825	G	P-O5'	14.96	1.82	1.59
1	B	226	A	P-O5'	14.96	1.82	1.59
1	B	307	G	P-O5'	14.95	1.82	1.59
1	B	906	U	P-O5'	14.95	1.82	1.59
1	B	1818	U	P-O5'	14.95	1.82	1.59
1	B	911	A	P-O5'	14.95	1.82	1.59
1	B	871	U	C1'-N1	14.95	1.70	1.48
1	B	1287	A	O3'-P	14.95	1.83	1.61
1	B	960	A	P-O5'	14.95	1.82	1.59
1	B	2032	G	P-O5'	14.95	1.82	1.59
1	B	2531	A	O3'-P	14.95	1.83	1.61
1	B	2117	A	P-O5'	14.94	1.82	1.59
1	B	544	C	O3'-P	14.94	1.83	1.61
1	B	830	G	P-O5'	14.94	1.82	1.59
1	B	2552	U	C1'-N1	14.94	1.70	1.48
1	B	246	C	O3'-P	14.94	1.83	1.61
1	B	383	C	C1'-N1	14.94	1.70	1.48
1	B	2690	U	C1'-N1	14.94	1.70	1.48
1	B	1846	G	O3'-P	14.94	1.83	1.61
1	B	2777	G	O3'-P	14.94	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2170	A	P-O5'	14.94	1.82	1.59
1	B	1722	A	O3'-P	14.94	1.83	1.61
1	B	2061	G	C1'-N9	14.94	1.70	1.48
1	B	2886	A	P-O5'	14.93	1.82	1.59
1	B	471	A	O3'-P	14.93	1.83	1.61
1	B	571	U	C1'-N1	14.93	1.70	1.48
1	B	943	A	O3'-P	14.93	1.83	1.61
1	B	1326	U	C5'-C4'	14.93	1.73	1.51
1	B	614	A	P-O5'	14.93	1.82	1.59
1	B	1288	G	P-O5'	14.93	1.82	1.59
1	B	345	A	P-O5'	14.93	1.82	1.59
1	B	611	C	O3'-P	14.93	1.83	1.61
1	B	914	G	O3'-P	14.93	1.83	1.61
1	B	2062	A	C1'-N9	14.93	1.70	1.48
1	B	294	A	C1'-N9	14.93	1.70	1.48
1	B	1730	C	C1'-N1	14.93	1.70	1.48
1	B	1810	A	C1'-N9	14.93	1.70	1.48
1	B	2376	A	P-O5'	14.93	1.82	1.59
1	B	932	U	P-O5'	14.92	1.82	1.59
1	B	1876	A	O3'-P	14.92	1.83	1.61
1	B	982	C	P-O5'	14.92	1.82	1.59
1	B	1760	C	P-O5'	14.92	1.82	1.59
1	B	2528	U	O3'-P	14.92	1.83	1.61
1	B	2738	A	O3'-P	14.92	1.83	1.61
1	B	2805	C	O3'-P	14.92	1.83	1.61
1	B	472	A	P-O5'	14.92	1.82	1.59
1	B	956	G	O3'-P	14.92	1.83	1.61
1	B	1838	C	O3'-P	14.92	1.83	1.61
1	B	33	C	C1'-N1	14.91	1.70	1.48
1	B	715	A	P-O5'	14.91	1.82	1.59
1	B	1391	U	O3'-P	14.91	1.83	1.61
1	B	422	A	O3'-P	14.91	1.83	1.61
1	B	2533	U	P-O5'	14.91	1.82	1.59
1	B	423	A	C1'-N9	14.91	1.70	1.48
1	B	2777	G	P-O5'	14.91	1.82	1.59
1	B	512	G	O3'-P	14.91	1.83	1.61
1	B	827	U	P-O5'	14.91	1.82	1.59
1	B	2298	A	C1'-N9	14.91	1.70	1.48
1	B	1121	C	O3'-P	14.91	1.83	1.61
1	B	1809	A	P-O5'	14.91	1.82	1.59
1	B	1322	A	C1'-N9	14.90	1.70	1.48
1	B	1007	C	C1'-N1	14.90	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1008	A	P-O5'	14.90	1.82	1.59
1	B	1535	A	O3'-P	14.90	1.83	1.61
1	B	2310	C	P-O5'	14.90	1.82	1.59
1	B	251	A	P-O5'	14.90	1.82	1.59
1	B	389	G	P-O5'	14.90	1.82	1.59
1	B	1044	C	C1'-N1	14.90	1.70	1.48
1	B	405	U	O3'-P	14.90	1.83	1.61
1	B	826	U	O3'-P	14.90	1.83	1.61
1	B	1026	G	P-O5'	14.90	1.82	1.59
1	B	1129	A	C1'-N9	14.90	1.70	1.48
1	B	308	G	O3'-P	14.89	1.83	1.61
1	B	1544	A	O3'-P	14.89	1.83	1.61
1	B	981	A	P-O5'	14.89	1.82	1.59
1	B	1815	A	P-O5'	14.89	1.82	1.59
1	B	1267	U	P-O5'	14.89	1.82	1.59
1	B	2427	C	C1'-N1	14.89	1.70	1.48
1	B	2481	G	P-O5'	14.89	1.82	1.59
1	B	609	A	P-O5'	14.89	1.82	1.59
1	B	1039	A	P-O5'	14.89	1.82	1.59
1	B	2681	C	O3'-P	14.89	1.83	1.61
1	B	446	G	O3'-P	14.89	1.83	1.61
1	B	1615	C	O3'-P	14.89	1.83	1.61
1	B	1477	A	O3'-P	14.88	1.83	1.61
1	B	829	A	O3'-P	14.88	1.83	1.61
1	B	1489	C	O3'-P	14.88	1.83	1.61
1	B	1780	A	O3'-P	14.88	1.83	1.61
1	B	2501	C	C1'-N1	14.88	1.70	1.48
1	B	1617	C	P-O5'	14.88	1.82	1.59
1	B	1759	A	O3'-P	14.88	1.83	1.61
1	B	247	G	O3'-P	14.87	1.83	1.61
1	B	957	C	C1'-N1	14.88	1.70	1.48
1	B	125	A	O3'-P	14.87	1.83	1.61
1	B	1266	G	O3'-P	14.87	1.83	1.61
1	B	1604	C	C1'-N1	14.87	1.70	1.48
1	B	2584	U	P-O5'	14.87	1.82	1.59
1	B	2687	U	O3'-P	14.87	1.83	1.61
1	B	125	A	P-O5'	14.87	1.82	1.59
1	B	244	A	C1'-N9	14.87	1.70	1.48
1	B	2253	G	P-O5'	14.87	1.82	1.59
1	B	2474	U	P-O5'	14.87	1.82	1.59
1	B	254	G	C1'-N9	14.87	1.70	1.48
1	B	1125	G	C3'-O3'	14.87	1.64	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1585	C	C1'-N1	14.87	1.70	1.48
1	B	1914	C	P-O5'	14.87	1.82	1.59
1	B	2197	U	O3'-P	14.87	1.83	1.61
1	B	2309	A	P-O5'	14.87	1.82	1.59
1	B	2440	C	C1'-N1	14.87	1.70	1.48
1	B	162	U	P-O5'	14.87	1.82	1.59
1	B	613	A	P-O5'	14.87	1.82	1.59
1	B	673	C	C1'-N1	14.87	1.70	1.48
1	B	959	A	P-O5'	14.87	1.82	1.59
1	B	53	A	O5'-C5'	14.86	1.64	1.42
1	B	1023	U	C5'-C4'	14.86	1.73	1.51
1	B	1203	U	P-O5'	14.86	1.82	1.59
1	B	2033	A	P-O5'	14.86	1.82	1.59
1	B	1214	A	C1'-N9	14.86	1.70	1.48
1	B	2051	A	O3'-P	14.86	1.83	1.61
1	B	2596	U	C1'-N1	14.86	1.70	1.48
1	B	901	C	P-O5'	14.86	1.82	1.59
1	B	1155	A	P-O5'	14.86	1.82	1.59
1	B	1537	G	O3'-P	14.86	1.83	1.61
1	B	2134	A	P-O5'	14.86	1.82	1.59
1	B	2233	U	C1'-N1	14.86	1.70	1.48
1	B	2779	U	C1'-N1	14.86	1.70	1.48
1	B	1494	A	O3'-P	14.85	1.83	1.61
1	B	1614	A	O3'-P	14.85	1.83	1.61
1	B	2199	A	P-O5'	14.85	1.82	1.59
1	B	2212	A	O3'-P	14.85	1.83	1.61
1	B	2237	G	O3'-P	14.85	1.83	1.61
1	B	2335	A	C1'-N9	14.85	1.70	1.48
1	B	100	U	O3'-P	14.85	1.83	1.61
1	B	1033	U	P-O5'	14.85	1.82	1.59
1	B	1729	U	O3'-P	14.85	1.83	1.61
1	B	2271	G	P-O5'	14.85	1.82	1.59
1	B	460	A	P-O5'	14.85	1.82	1.59
1	B	1671	U	C1'-N1	14.85	1.70	1.48
1	B	1955	U	C1'-N1	14.85	1.70	1.48
1	B	2806	C	P-O5'	14.85	1.82	1.59
1	B	2391	G	O3'-P	14.85	1.83	1.61
1	B	2755	C	O3'-P	14.85	1.83	1.61
1	B	2005	A	P-O5'	14.84	1.82	1.59
1	B	386	G	P-O5'	14.84	1.82	1.59
1	B	716	A	P-O5'	14.84	1.82	1.59
1	B	739	A	P-O5'	14.84	1.82	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	889	C	P-O5'	14.84	1.82	1.59
1	B	1560	G	O3'-P	14.84	1.83	1.61
1	B	2703	C	O3'-P	14.84	1.83	1.61
1	B	2482	A	P-O5'	14.84	1.82	1.59
1	B	228	C	O3'-P	14.84	1.83	1.61
1	B	2237	G	P-O5'	14.84	1.82	1.59
1	B	1454	C	C1'-N1	14.83	1.70	1.48
1	B	2131	U	C1'-N1	14.83	1.70	1.48
1	B	2473	U	C1'-N1	14.83	1.70	1.48
1	B	2725	A	C1'-N9	14.83	1.70	1.48
1	B	2269	G	O3'-P	14.83	1.83	1.61
1	B	2734	A	C1'-N9	14.83	1.70	1.48
1	B	161	A	O3'-P	14.83	1.83	1.61
1	B	890	C	C1'-N1	14.83	1.70	1.48
1	B	1116	G	C3'-O3'	14.83	1.64	1.42
1	B	1390	U	C1'-N1	14.83	1.70	1.48
1	B	1536	C	C1'-N1	14.83	1.70	1.48
1	B	1732	C	C1'-N1	14.83	1.70	1.48
1	B	1980	G	O3'-P	14.83	1.83	1.61
1	B	2826	A	P-O5'	14.83	1.81	1.59
1	B	2529	G	P-O5'	14.83	1.81	1.59
1	B	310	A	P-O5'	14.82	1.81	1.59
1	B	161	A	P-O5'	14.82	1.81	1.59
1	B	457	A	C5'-C4'	14.82	1.73	1.51
1	B	646	U	O3'-P	14.82	1.83	1.61
1	B	1807	G	O3'-P	14.82	1.83	1.61
1	B	217	A	C5'-C4'	14.82	1.73	1.51
1	B	372	G	P-O5'	14.82	1.81	1.59
1	B	645	C	P-O5'	14.82	1.81	1.59
1	B	1732	C	O3'-P	14.82	1.83	1.61
1	B	2789	C	C1'-N1	14.82	1.70	1.48
1	B	241	A	C1'-N9	14.82	1.70	1.48
1	B	388	G	P-O5'	14.82	1.81	1.59
1	B	2035	G	P-O5'	14.82	1.81	1.59
1	B	2233	U	P-O5'	14.82	1.81	1.59
1	B	712	G	O3'-P	14.81	1.83	1.61
1	B	2796	U	O3'-P	14.81	1.83	1.61
1	B	717	C	P-O5'	14.81	1.81	1.59
1	B	1352	U	C1'-N1	14.81	1.70	1.48
1	B	2236	U	O3'-P	14.81	1.83	1.61
1	B	1802	A	P-O5'	14.80	1.81	1.59
1	B	886	A	P-O5'	14.80	1.81	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	762	U	C5'-C4'	14.80	1.73	1.51
1	B	1688	U	O3'-P	14.80	1.83	1.61
1	B	1693	U	C1'-N1	14.80	1.70	1.48
1	B	1926	U	C1'-N1	14.80	1.70	1.48
1	B	2131	U	O3'-P	14.80	1.83	1.61
1	B	338	G	P-O5'	14.80	1.81	1.59
1	B	1728	C	P-O5'	14.80	1.81	1.59
1	B	1779	U	O3'-P	14.80	1.83	1.61
1	B	1834	U	C1'-N1	14.80	1.70	1.48
1	B	1851	U	C1'-N1	14.80	1.70	1.48
1	B	2613	U	C1'-N1	14.80	1.70	1.48
1	B	890	C	P-O5'	14.79	1.81	1.59
1	B	978	G	O3'-P	14.80	1.83	1.61
1	B	980	A	O3'-P	14.79	1.83	1.61
1	B	2287	A	C1'-N9	14.80	1.70	1.48
1	B	2308	G	P-O5'	14.79	1.81	1.59
1	B	1268	A	C1'-N9	14.79	1.70	1.48
1	B	2586	U	P-O5'	14.79	1.81	1.59
1	B	423	A	P-O5'	14.79	1.81	1.59
1	B	655	A	O3'-P	14.79	1.83	1.61
1	B	1265	A	O3'-P	14.79	1.83	1.61
1	B	1325	U	C3'-O3'	14.79	1.64	1.42
1	B	2531	A	P-O5'	14.78	1.81	1.59
1	B	2732	G	P-O5'	14.78	1.81	1.59
1	B	2870	C	C1'-N1	14.79	1.70	1.48
1	B	463	G	P-O5'	14.78	1.81	1.59
1	B	1916	A	P-O5'	14.78	1.81	1.59
1	B	2872	A	C5'-C4'	14.78	1.73	1.51
1	B	1853	A	O5'-C5'	14.78	1.64	1.42
1	B	727	A	P-O5'	14.78	1.81	1.59
1	B	1814	G	O3'-P	14.78	1.83	1.61
1	B	900	A	O3'-P	14.78	1.83	1.61
1	B	1329	U	C1'-N1	14.78	1.70	1.48
1	B	2305	U	O3'-P	14.78	1.83	1.61
1	B	247	G	P-O5'	14.78	1.81	1.59
1	B	330	A	C1'-N9	14.78	1.70	1.48
1	B	346	A	C1'-N9	14.78	1.70	1.48
1	B	725	G	O3'-P	14.78	1.83	1.61
1	B	1730	C	O3'-P	14.78	1.83	1.61
1	B	560	C	O3'-P	14.77	1.83	1.61
1	B	633	A	P-O5'	14.77	1.81	1.59
1	B	1328	A	O3'-P	14.77	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2797	U	C1'-N1	14.77	1.70	1.48
1	B	685	A	C3'-O3'	14.77	1.64	1.42
1	B	249	C	O3'-P	14.77	1.83	1.61
1	B	1264	A	C1'-N9	14.77	1.70	1.48
1	B	2533	U	O3'-P	14.77	1.83	1.61
1	B	630	G	O3'-P	14.77	1.83	1.61
1	B	1653	G	P-O5'	14.77	1.81	1.59
1	B	1854	A	C3'-O3'	14.77	1.64	1.42
1	B	2169	A	O3'-P	14.77	1.83	1.61
1	B	2266	A	O3'-P	14.77	1.83	1.61
1	B	2429	G	O3'-P	14.77	1.83	1.61
1	B	1731	G	O3'-P	14.77	1.83	1.61
1	B	806	C	O3'-P	14.76	1.83	1.61
1	B	1365	A	O3'-P	14.76	1.83	1.61
1	B	2156	G	C5'-C4'	14.76	1.73	1.51
1	B	877	A	P-O5'	14.76	1.81	1.59
1	B	2824	C	O3'-P	14.76	1.83	1.61
1	B	1048	A	C1'-N9	14.76	1.70	1.48
1	B	1225	G	P-O5'	14.76	1.81	1.59
1	B	1615	C	P-O5'	14.76	1.81	1.59
1	B	1128	G	P-O5'	14.75	1.81	1.59
1	B	1727	C	O3'-P	14.75	1.83	1.61
1	B	2893	A	O3'-P	14.75	1.83	1.61
1	B	562	U	C1'-N1	14.75	1.70	1.48
1	B	1634	A	O3'-P	14.75	1.83	1.61
1	B	1664	A	O3'-P	14.75	1.83	1.61
1	B	2031	A	O3'-P	14.75	1.83	1.61
1	B	2119	A	C1'-N9	14.75	1.70	1.48
1	B	2808	G	O3'-P	14.75	1.83	1.61
1	B	462	C	O3'-P	14.75	1.83	1.61
1	B	1129	A	O3'-P	14.75	1.83	1.61
1	B	2705	A	P-O5'	14.75	1.81	1.59
1	B	1918	A	P-O5'	14.75	1.81	1.59
1	B	2076	U	C1'-N1	14.75	1.70	1.48
1	B	612	G	P-O5'	14.75	1.81	1.59
1	B	2713	U	P-O5'	14.75	1.81	1.59
1	B	1225	G	O3'-P	14.75	1.83	1.61
1	B	1457	U	O3'-P	14.75	1.83	1.61
1	B	2359	C	C1'-N1	14.75	1.70	1.48
1	B	276	U	C3'-O3'	14.74	1.64	1.42
1	B	546	U	O3'-P	14.74	1.83	1.61
1	B	877	A	C1'-N9	14.74	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1047	G	C1'-N9	14.74	1.70	1.48
1	B	1808	A	O3'-P	14.74	1.83	1.61
1	B	13	A	P-O5'	14.74	1.81	1.59
1	B	401	A	P-O5'	14.74	1.81	1.59
1	B	1358	G	O3'-P	14.74	1.83	1.61
1	B	1808	A	P-O5'	14.74	1.81	1.59
1	B	1226	A	C1'-N9	14.74	1.70	1.48
1	B	2704	C	O3'-P	14.74	1.83	1.61
1	B	231	A	O3'-P	14.74	1.83	1.61
1	B	975	A	C5'-C4'	14.74	1.73	1.51
1	B	1263	U	O3'-P	14.74	1.83	1.61
1	B	1935	G	C3'-O3'	14.74	1.64	1.42
1	B	2608	G	C3'-O3'	14.74	1.64	1.42
1	B	465	G	O3'-P	14.73	1.83	1.61
1	B	829	A	P-O5'	14.73	1.81	1.59
1	B	1884	G	P-O5'	14.73	1.81	1.59
1	B	643	A	P-O5'	14.73	1.81	1.59
1	B	1204	A	P-O5'	14.73	1.81	1.59
1	B	2754	U	C1'-N1	14.73	1.70	1.48
1	B	2770	G	O3'-P	14.73	1.83	1.61
1	B	2868	A	C1'-N9	14.73	1.70	1.48
1	B	2268	A	O3'-P	14.73	1.83	1.61
1	B	384	A	O3'-P	14.73	1.83	1.61
1	B	865	C	P-O5'	14.73	1.81	1.59
1	B	1249	U	O3'-P	14.73	1.83	1.61
1	B	1618	1MA	O3'-P	14.73	1.83	1.61
1	B	1554	U	P-O5'	14.73	1.81	1.59
1	B	2032	G	O3'-P	14.73	1.83	1.61
1	B	159	G	O3'-P	14.72	1.83	1.61
1	B	1925	C	C1'-N1	14.72	1.69	1.47
1	B	2034	U	C1'-N1	14.72	1.70	1.48
1	B	203	A	C1'-N9	14.72	1.70	1.48
1	B	716	A	O3'-P	14.72	1.83	1.61
1	B	2034	U	P-O5'	14.72	1.81	1.59
1	B	2565	A	O3'-P	14.72	1.83	1.61
1	B	699	A	C3'-O3'	14.72	1.64	1.42
1	B	2210	U	C1'-N1	14.72	1.70	1.48
1	B	942	G	O3'-P	14.71	1.83	1.61
1	B	988	A	C1'-N9	14.71	1.70	1.48
1	B	1605	C	C1'-N1	14.71	1.70	1.48
1	B	2350	C	O3'-P	14.71	1.83	1.61
1	B	2747	G	O3'-P	14.71	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2884	U	O3'-P	14.71	1.83	1.61
1	B	137	U	O3'-P	14.71	1.83	1.61
1	B	457	A	O3'-P	14.71	1.83	1.61
1	B	1439	A	C1'-N9	14.71	1.70	1.48
1	B	2757	A	P-O5'	14.71	1.81	1.59
1	B	228	C	P-O5'	14.71	1.81	1.59
1	B	1204	A	C1'-N9	14.71	1.70	1.48
1	B	1287	A	P-O5'	14.71	1.81	1.59
1	B	1745	A	O3'-P	14.71	1.83	1.61
1	B	1021	A	P-O5'	14.70	1.81	1.59
1	B	2307	G	P-O5'	14.70	1.81	1.59
1	B	1352	U	P-O5'	14.70	1.81	1.59
1	B	1275	A	O3'-P	14.70	1.83	1.61
1	B	887	U	O3'-P	14.70	1.83	1.61
1	B	1492	G	O3'-P	14.70	1.83	1.61
1	B	221	A	C5'-C4'	14.69	1.73	1.51
1	B	1174	U	O3'-P	14.70	1.83	1.61
1	B	1756	G	P-O5'	14.70	1.81	1.59
1	B	1224	U	P-O5'	14.69	1.81	1.59
1	B	2858	C	P-O5'	14.69	1.81	1.59
1	B	562	U	P-O5'	14.69	1.81	1.59
1	B	612	G	O3'-P	14.69	1.83	1.61
1	B	2273	A	P-O5'	14.69	1.81	1.59
1	B	1523	U	O3'-P	14.69	1.83	1.61
1	B	1697	G	O3'-P	14.69	1.83	1.61
1	B	836	G	O3'-P	14.69	1.83	1.61
1	B	1283	G	C3'-O3'	14.69	1.64	1.42
1	B	2431	U	C1'-N1	14.69	1.70	1.48
1	B	1354	A	O3'-P	14.69	1.83	1.61
1	B	1397	U	C1'-N1	14.69	1.70	1.48
1	B	2884	U	C1'-N1	14.69	1.70	1.48
1	B	751	A	P-O5'	14.69	1.81	1.59
1	B	2225	A	O3'-P	14.69	1.83	1.61
1	B	2689	U	C1'-N1	14.69	1.70	1.48
1	B	1173	U	C1'-N1	14.68	1.70	1.48
1	B	214	G	C3'-O3'	14.68	1.64	1.42
1	B	1953	A	C1'-N9	14.68	1.70	1.48
1	B	2173	A	C1'-N9	14.68	1.70	1.48
1	B	1912	A	O3'-P	14.68	1.83	1.61
1	B	887	U	C1'-N1	14.68	1.70	1.48
1	B	1175	A	O3'-P	14.68	1.83	1.61
1	B	1691	C	P-O5'	14.68	1.81	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1871	A	O3'-P	14.68	1.83	1.61
1	B	90	U	C1'-N1	14.67	1.70	1.48
1	B	391	A	P-O5'	14.67	1.81	1.59
1	B	1493	C	P-O5'	14.67	1.81	1.59
1	B	1701	A	C1'-N9	14.67	1.70	1.48
1	B	615	U	O3'-P	14.67	1.83	1.61
1	B	888	C	O3'-P	14.67	1.83	1.61
1	B	2180	U	C1'-N1	14.67	1.70	1.48
1	B	1516	G	C3'-O3'	14.67	1.64	1.42
1	B	677	A	P-O5'	14.67	1.81	1.59
1	B	1025	G	O3'-P	14.67	1.83	1.61
1	B	1602	U	C1'-N1	14.67	1.70	1.48
1	B	163	C	P-O5'	14.66	1.81	1.59
1	B	2779	U	O3'-P	14.66	1.83	1.61
1	B	847	U	C1'-N1	14.66	1.70	1.48
1	B	1273	U	C1'-N1	14.66	1.70	1.48
1	B	1690	A	C1'-N9	14.66	1.70	1.48
1	B	62	U	C1'-N1	14.66	1.70	1.48
1	B	1951	U	C3'-O3'	14.66	1.65	1.43
1	B	2532	G	O3'-P	14.66	1.83	1.61
1	B	1302	A	C1'-N9	14.66	1.70	1.48
1	B	2272	U	O3'-P	14.66	1.83	1.61
1	B	387	U	O3'-P	14.66	1.83	1.61
1	B	164	C	P-O5'	14.66	1.81	1.59
1	B	1654	A	P-O5'	14.66	1.81	1.59
1	B	2614	A	P-O5'	14.66	1.81	1.59
1	B	1668	A	C1'-N9	14.65	1.70	1.48
1	B	455	C	O3'-P	14.65	1.83	1.61
1	B	1007	C	P-O5'	14.65	1.81	1.59
1	B	1655	A	O3'-P	14.65	1.83	1.61
1	B	1800	C	C1'-N1	14.65	1.70	1.48
1	B	2034	U	O3'-P	14.65	1.83	1.61
1	B	2238	G	O3'-P	14.65	1.83	1.61
1	B	2439	A	C1'-N9	14.65	1.70	1.48
1	B	226	A	C1'-N9	14.65	1.70	1.48
1	B	2454	G	C3'-O3'	14.65	1.64	1.42
1	B	2596	U	O3'-P	14.65	1.83	1.61
1	B	389	G	O3'-P	14.64	1.83	1.61
1	B	2584	U	C1'-N1	14.64	1.70	1.48
1	B	956	G	P-O5'	14.64	1.81	1.59
1	B	1852	U	C3'-O3'	14.64	1.64	1.42
1	B	718	A	P-O5'	14.64	1.81	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	198	C	P-O5'	14.63	1.81	1.59
1	B	1721	G	P-O5'	14.63	1.81	1.59
1	B	139	U	P-O5'	14.63	1.81	1.59
1	B	1204	A	O3'-P	14.63	1.83	1.61
1	B	1744	A	C1'-N9	14.63	1.69	1.48
1	B	489	G	P-O5'	14.63	1.81	1.59
1	B	2163	A	P-O5'	14.62	1.81	1.59
1	B	2799	A	C1'-N9	14.62	1.69	1.48
1	B	62	U	P-O5'	14.62	1.81	1.59
1	B	546	U	C1'-N1	14.62	1.70	1.48
1	B	714	U	O3'-P	14.62	1.83	1.61
1	B	738	G	O3'-P	14.62	1.83	1.61
1	B	975	A	C3'-O3'	14.62	1.64	1.42
1	B	1680	U	O3'-P	14.62	1.83	1.61
1	B	1394	U	C1'-N1	14.62	1.70	1.48
1	B	613	A	O3'-P	14.62	1.83	1.61
1	B	789	A	O3'-P	14.62	1.83	1.61
1	B	1396	U	O3'-P	14.62	1.83	1.61
1	B	489	G	O3'-P	14.62	1.83	1.61
1	B	2688	G	P-O5'	14.62	1.81	1.59
1	B	2682	A	P-O5'	14.61	1.81	1.59
1	B	933	A	C1'-N9	14.61	1.69	1.48
1	B	2755	C	C1'-N1	14.61	1.70	1.48
1	B	1851	U	O3'-P	14.61	1.83	1.61
1	B	2351	G	O3'-P	14.61	1.83	1.61
1	B	715	A	O3'-P	14.61	1.83	1.61
1	B	614	A	O3'-P	14.60	1.83	1.61
1	B	1652	A	O3'-P	14.60	1.83	1.61
1	B	1918	A	O3'-P	14.60	1.83	1.61
1	B	1978	A	C1'-N9	14.60	1.69	1.48
1	B	2185	U	C1'-N1	14.60	1.70	1.48
1	B	2873	A	C1'-N9	14.60	1.69	1.48
1	B	864	G	O3'-P	14.60	1.83	1.61
1	B	1211	C	O3'-P	14.60	1.83	1.61
1	B	1753	G	O3'-P	14.60	1.83	1.61
1	B	196	A	P-O5'	14.60	1.81	1.59
1	B	225	C	O3'-P	14.60	1.83	1.61
1	B	958	U	P-O5'	14.60	1.81	1.59
1	B	338	G	O3'-P	14.60	1.83	1.61
1	B	1131	G	C5'-C4'	14.60	1.73	1.51
1	B	1536	C	O3'-P	14.60	1.83	1.61
1	B	2115	G	O3'-P	14.59	1.83	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2185	U	P-O5'	14.59	1.81	1.59
1	B	2270	A	O3'-P	14.59	1.83	1.61
1	B	2390	U	C1'-N1	14.59	1.70	1.48
1	B	445	C	O3'-P	14.59	1.83	1.61
1	B	1203	U	O3'-P	14.59	1.83	1.61
1	B	2582	G	O3'-P	14.59	1.83	1.61
1	B	941	A	C1'-N9	14.59	1.69	1.48
1	B	1438	U	O3'-P	14.59	1.83	1.61
1	B	1890	A	C1'-N9	14.58	1.69	1.48
1	B	2197	U	C1'-N1	14.58	1.70	1.48
1	B	556	A	C1'-N9	14.58	1.69	1.48
1	B	1367	A	O3'-P	14.58	1.83	1.61
1	B	1433	A	O3'-P	14.58	1.83	1.61
1	B	1782	U	O3'-P	14.58	1.83	1.61
1	B	2130	U	C1'-N1	14.58	1.70	1.48
1	B	2451	A	C3'-O3'	14.58	1.64	1.42
1	B	250	G	O3'-P	14.58	1.83	1.61
1	B	390	U	P-O5'	14.58	1.81	1.59
1	B	482	A	C1'-N9	14.58	1.69	1.48
1	B	309	A	O3'-P	14.58	1.83	1.61
1	B	889	C	O3'-P	14.58	1.83	1.61
1	B	360	U	C1'-N1	14.57	1.70	1.48
1	B	468	G	O3'-P	14.57	1.83	1.61
1	B	1677	A	O3'-P	14.57	1.83	1.61
1	B	386	G	O3'-P	14.57	1.83	1.61
1	B	1780	A	P-O5'	14.57	1.81	1.59
1	B	2776	A	O3'-P	14.57	1.83	1.61
1	B	1038	G	O3'-P	14.57	1.83	1.61
1	B	501	A	C3'-O3'	14.56	1.64	1.42
1	B	643	A	O3'-P	14.56	1.82	1.61
1	B	2033	A	O3'-P	14.56	1.82	1.61
1	B	2113	U	C1'-N1	14.56	1.70	1.48
1	B	632	A	O3'-P	14.56	1.82	1.61
1	B	1029	A	C5'-C4'	14.56	1.73	1.51
1	B	2165	C	C1'-N1	14.56	1.70	1.48
1	B	1174	U	C1'-N1	14.55	1.70	1.48
1	B	2309	A	O3'-P	14.55	1.82	1.61
1	B	2271	G	O3'-P	14.55	1.82	1.61
1	B	321	U	C1'-N1	14.55	1.70	1.48
1	B	1032	A	C1'-N9	14.54	1.69	1.48
1	B	828	U	C1'-N1	14.54	1.70	1.48
1	B	1887	C	P-O5'	14.54	1.81	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2211	A	C1'-N9	14.54	1.69	1.48
1	B	2268	A	C1'-N9	14.54	1.69	1.48
1	B	2797	U	O3'-P	14.54	1.82	1.61
1	B	126	A	C3'-O3'	14.53	1.64	1.42
1	B	1187	G	O3'-P	14.53	1.82	1.61
1	B	2203	U	P-O5'	14.54	1.81	1.59
1	B	2857	G	O3'-P	14.54	1.82	1.61
1	B	248	G	O3'-P	14.53	1.82	1.61
1	B	12	U	O3'-P	14.53	1.82	1.61
1	B	1224	U	O3'-P	14.53	1.82	1.61
1	B	1537	G	P-O5'	14.53	1.81	1.59
1	B	1688	U	C1'-N1	14.53	1.70	1.48
1	B	339	U	C1'-N1	14.53	1.70	1.48
1	B	1383	A	C1'-N9	14.53	1.69	1.48
1	B	1534	U	O3'-P	14.53	1.82	1.61
1	B	2251	7MG	O3'-P	14.53	1.82	1.61
1	B	537	G	P-O5'	14.53	1.81	1.59
1	B	958	U	O3'-P	14.53	1.82	1.61
1	B	2104	C	P-O5'	14.53	1.81	1.59
1	B	642	U	O3'-P	14.52	1.82	1.61
1	B	2320	U	C1'-N1	14.52	1.70	1.48
1	B	2273	A	O3'-P	14.52	1.82	1.61
1	B	1310	G	C1'-N9	14.52	1.69	1.48
1	B	1567	G	C5'-C4'	14.52	1.73	1.51
1	B	1267	U	C1'-N1	14.52	1.70	1.48
1	B	803	U	C3'-O3'	14.52	1.64	1.42
1	B	1342	A	O3'-P	14.52	1.82	1.61
1	B	2311	A	O3'-P	14.52	1.82	1.61
1	B	1803	A	C3'-O3'	14.51	1.64	1.42
1	B	2310	C	O3'-P	14.51	1.82	1.61
1	B	84	A	P-O5'	14.51	1.81	1.59
1	B	748	G	P-O5'	14.51	1.81	1.59
1	B	2308	G	O3'-P	14.51	1.82	1.61
1	B	1680	U	C5'-C4'	14.51	1.73	1.51
1	B	1856	U	C1'-N1	14.51	1.70	1.48
1	B	1677	A	C1'-N9	14.50	1.69	1.48
1	B	404	A	C1'-N9	14.50	1.69	1.48
1	B	548	G	O3'-P	14.50	1.82	1.61
1	B	1459	G	P-O5'	14.50	1.81	1.59
1	B	1603	A	C1'-N9	14.50	1.69	1.48
1	B	717	C	O3'-P	14.49	1.82	1.61
1	B	973	A	C5'-C4'	14.49	1.73	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	492	A	O3'-P	14.49	1.82	1.61
1	B	2272	U	C1'-N1	14.49	1.70	1.48
1	B	1912	A	C1'-N9	14.49	1.69	1.48
1	B	2028	U	P-O5'	14.49	1.81	1.59
1	B	2585	U	O3'-P	14.49	1.82	1.61
1	B	764	A	P-O5'	14.48	1.81	1.59
1	B	1573	G	C5'-C4'	14.48	1.73	1.51
1	B	2778	A	C1'-N9	14.48	1.69	1.48
1	B	162	U	O3'-P	14.48	1.82	1.61
1	B	165	A	P-O5'	14.48	1.81	1.59
1	B	890	C	O3'-P	14.48	1.82	1.61
1	B	1635	A	P-O5'	14.48	1.81	1.59
1	B	957	C	O3'-P	14.48	1.82	1.61
1	B	2144	G	O3'-P	14.48	1.82	1.61
1	B	2272	U	P-O5'	14.48	1.81	1.59
1	B	162	U	C1'-N1	14.47	1.70	1.48
1	B	1729	U	C1'-N1	14.47	1.70	1.48
1	B	2267	A	O3'-P	14.47	1.82	1.61
1	B	451	U	P-O5'	14.47	1.81	1.59
1	B	1321	A	C1'-N9	14.47	1.69	1.48
1	B	1781	U	C1'-N1	14.47	1.70	1.48
1	B	2764	A	C1'-N9	14.47	1.69	1.48
1	B	488	G	O3'-P	14.47	1.82	1.61
1	B	1393	A	C1'-N9	14.47	1.69	1.48
1	B	2274	A	P-O5'	14.47	1.81	1.59
1	B	2114	A	O3'-P	14.47	1.82	1.61
1	B	2776	A	C1'-N9	14.47	1.69	1.48
1	B	232	G	P-O5'	14.46	1.81	1.59
1	B	1698	A	C1'-N9	14.46	1.69	1.48
1	B	1360	G	O3'-P	14.46	1.82	1.61
1	B	1559	U	O3'-P	14.46	1.82	1.61
1	B	2375	G	O3'-P	14.46	1.82	1.61
1	B	2798	U	C1'-N1	14.46	1.70	1.48
1	B	676	A	P-O5'	14.46	1.81	1.59
1	B	202	U	C1'-N1	14.45	1.70	1.48
1	B	1176	U	O3'-P	14.45	1.82	1.61
1	B	587	C	C3'-O3'	14.45	1.63	1.42
1	B	1560	G	P-O5'	14.45	1.81	1.59
1	B	644	A	O3'-P	14.45	1.82	1.61
1	B	1700	A	C1'-N9	14.45	1.69	1.48
1	B	1025	G	C1'-N9	14.44	1.69	1.48
1	B	264	C	C1'-N1	14.44	1.70	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	178	G	O3'-P	14.44	1.82	1.61
1	B	1847	A	C1'-N9	14.44	1.69	1.48
1	B	867	C	C1'-N1	14.43	1.70	1.48
1	B	2244	U	C1'-N1	14.43	1.70	1.48
1	B	226	A	O3'-P	14.43	1.82	1.61
1	B	401	A	C1'-N9	14.43	1.69	1.48
1	B	2586	U	C1'-N1	14.43	1.70	1.48
1	B	2835	A	P-O5'	14.43	1.81	1.59
1	B	306	U	O3'-P	14.42	1.82	1.61
1	B	448	U	P-O5'	14.42	1.81	1.59
1	B	959	A	O3'-P	14.42	1.82	1.61
1	B	1913	A	C1'-N9	14.42	1.69	1.48
1	B	1454	C	O3'-P	14.42	1.82	1.61
1	B	1456	G	O3'-P	14.42	1.82	1.61
1	B	1614	A	C1'-N9	14.42	1.69	1.48
1	B	642	U	C1'-N1	14.42	1.70	1.48
1	B	251	A	O3'-P	14.42	1.82	1.61
1	B	331	C	C1'-N1	14.42	1.70	1.48
1	B	111	A	C5'-C4'	14.41	1.72	1.51
1	B	982	C	O3'-P	14.41	1.82	1.61
1	B	1134	A	C1'-N9	14.41	1.69	1.48
1	B	1720	U	O3'-P	14.41	1.82	1.61
1	B	2500	U	C1'-N1	14.41	1.70	1.48
1	B	1690	A	O3'-P	14.41	1.82	1.61
1	B	28	A	O5'-C5'	14.41	1.64	1.42
1	B	1353	A	C1'-N9	14.41	1.69	1.48
1	B	1713	A	P-O5'	14.41	1.81	1.59
1	B	2252	G	O3'-P	14.41	1.82	1.61
1	B	1264	A	P-O5'	14.40	1.81	1.59
1	B	1012	U	P-O5'	14.40	1.81	1.59
1	B	2530	A	O3'-P	14.40	1.82	1.61
1	B	2042	A	C1'-N9	14.40	1.69	1.48
1	B	2114	A	C5'-C4'	14.40	1.72	1.51
1	B	490	C	O3'-P	14.40	1.82	1.61
1	B	1838	C	P-O5'	14.40	1.81	1.59
1	B	1989	G	O5'-C5'	14.40	1.64	1.42
1	B	1395	A	O3'-P	14.40	1.82	1.61
1	B	163	C	O3'-P	14.39	1.82	1.61
1	B	310	A	C1'-N9	14.39	1.69	1.48
1	B	545	U	C1'-N1	14.39	1.70	1.48
1	B	149	A	C1'-N9	14.39	1.69	1.48
1	B	2392	A	C1'-N9	14.39	1.69	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	750	A	O3'-P	14.38	1.82	1.61
1	B	450	G	C5'-C4'	14.38	1.72	1.51
1	B	1565	C	P-O5'	14.38	1.81	1.59
1	B	714	U	C1'-N1	14.38	1.70	1.48
1	B	2790	U	C1'-N1	14.38	1.70	1.48
1	B	718	A	C1'-N9	14.37	1.69	1.48
1	B	161	A	C1'-N9	14.37	1.69	1.48
1	B	2169	A	C1'-N9	14.37	1.69	1.48
1	B	548	G	P-O5'	14.37	1.81	1.59
1	B	1989	G	C3'-O3'	14.37	1.63	1.42
1	B	1535	A	C1'-N9	14.37	1.69	1.48
1	B	1917	PSU	O3'-P	14.37	1.82	1.61
1	B	1224	U	C1'-N1	14.37	1.70	1.48
1	B	309	A	C1'-N9	14.36	1.69	1.48
1	B	344	A	O3'-P	14.36	1.82	1.61
1	B	1138	G	O3'-P	14.37	1.82	1.61
1	B	819	A	C1'-N9	14.35	1.69	1.48
1	B	164	C	O3'-P	14.35	1.82	1.61
1	B	1286	A	O3'-P	14.35	1.82	1.61
1	B	1679	A	C3'-O3'	14.35	1.63	1.42
1	B	1913	A	O3'-P	14.35	1.82	1.61
1	B	1941	C	C3'-O3'	14.35	1.63	1.42
1	B	2359	C	P-O5'	14.35	1.81	1.59
1	B	2492	U	O3'-P	14.35	1.82	1.61
1	B	561	G	O3'-P	14.35	1.82	1.61
1	B	411	G	C1'-N9	14.35	1.69	1.48
1	B	899	A	C1'-N9	14.35	1.69	1.48
1	B	525	U	C1'-N1	14.34	1.70	1.48
1	B	615	U	C1'-N1	14.34	1.70	1.48
1	B	1784	A	P-O5'	14.34	1.81	1.59
1	B	2835	A	O3'-P	14.34	1.82	1.61
1	B	2858	C	O3'-P	14.34	1.82	1.61
1	B	385	C	O3'-P	14.34	1.82	1.61
1	B	2754	U	P-O5'	14.34	1.81	1.59
1	B	103	A	C1'-N9	14.34	1.69	1.48
1	B	2886	A	O3'-P	14.33	1.82	1.61
1	B	2198	A	O3'-P	14.33	1.82	1.61
1	B	2890	G	O3'-P	14.33	1.82	1.61
1	B	120	U	O5'-C5'	14.32	1.71	1.43
1	B	506	G	O3'-P	14.32	1.82	1.61
1	B	900	A	C1'-N9	14.32	1.69	1.48
1	B	2871	U	O3'-P	14.32	1.82	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	46	G	O5'-C5'	14.32	1.64	1.42
1	B	2170	A	O3'-P	14.32	1.82	1.61
1	B	1438	U	C1'-N1	14.31	1.70	1.48
1	B	1632	A	C1'-N9	14.31	1.69	1.48
1	B	2265	U	O3'-P	14.31	1.82	1.61
1	B	240	C	C5'-C4'	14.31	1.72	1.51
1	B	644	A	C1'-N9	14.31	1.69	1.48
1	B	2755	C	P-O5'	14.31	1.81	1.59
1	B	127	A	O3'-P	14.31	1.82	1.61
1	B	2690	U	O3'-P	14.31	1.82	1.61
1	B	828	U	O3'-P	14.30	1.82	1.61
1	B	1713	A	O3'-P	14.30	1.82	1.61
1	B	2028	U	C1'-N1	14.30	1.70	1.48
1	B	1391	U	C1'-N1	14.30	1.70	1.48
1	B	1571	A	O3'-P	14.30	1.82	1.61
1	B	2273	A	C1'-N9	14.30	1.69	1.48
1	B	2477	U	C1'-N1	14.30	1.70	1.48
1	B	1001	A	C1'-N9	14.30	1.69	1.48
1	B	1329	U	O3'-P	14.30	1.82	1.61
1	B	1006	C	O3'-P	14.30	1.82	1.61
1	B	1379	U	C1'-N1	14.29	1.69	1.48
1	B	1155	A	C1'-N9	14.29	1.69	1.48
1	B	2712	C	O3'-P	14.29	1.82	1.61
1	B	1900	A	C1'-N9	14.29	1.69	1.48
1	B	1458	U	O3'-P	14.28	1.82	1.61
1	B	2493	U	P-O5'	14.28	1.81	1.59
1	B	1496	A	C1'-N9	14.28	1.69	1.48
1	B	1348	C	O3'-P	14.28	1.82	1.61
1	B	1839	G	O3'-P	14.28	1.82	1.61
1	B	256	A	C3'-O3'	14.28	1.63	1.42
1	B	1008	A	O3'-P	14.28	1.82	1.61
1	B	2306	C	O3'-P	14.27	1.82	1.61
1	B	1139	G	P-O5'	14.27	1.81	1.59
1	B	1494	A	C1'-N9	14.27	1.69	1.48
1	B	652	U	C1'-N1	14.27	1.69	1.48
1	B	913	U	O3'-P	14.27	1.82	1.61
1	B	1133	A	C1'-N9	14.27	1.69	1.48
1	B	960	A	C1'-N9	14.27	1.69	1.48
1	B	2180	U	P-O5'	14.27	1.81	1.59
1	B	2753	A	O3'-P	14.26	1.82	1.61
1	B	1753	G	C1'-N9	14.26	1.69	1.48
1	B	1616	A	O3'-P	14.26	1.82	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	387	U	C1'-N1	14.25	1.69	1.48
1	B	1395	A	C1'-N9	14.25	1.69	1.48
1	B	1755	A	O3'-P	14.25	1.82	1.61
1	B	2564	A	C1'-N9	14.25	1.69	1.48
1	B	2722	G	P-O5'	14.25	1.81	1.59
1	B	270	A	C1'-N9	14.25	1.69	1.48
1	B	2004	G	O3'-P	14.25	1.82	1.61
1	B	299	A	C1'-N9	14.24	1.69	1.48
1	B	344	A	C1'-N9	14.24	1.69	1.48
1	B	428	A	C3'-O3'	14.24	1.63	1.42
1	B	1189	A	C1'-N9	14.24	1.69	1.48
1	B	2846	G	O3'-P	14.24	1.82	1.61
1	B	2583	G	O3'-P	14.24	1.82	1.61
1	B	2893	A	C1'-N9	14.24	1.69	1.48
1	B	1534	U	C1'-N1	14.24	1.69	1.48
1	B	2433	A	C1'-N9	14.24	1.69	1.48
1	B	2542	A	C1'-N9	14.24	1.69	1.48
1	B	371	A	O3'-P	14.24	1.82	1.61
1	B	1962	C	O3'-P	14.24	1.82	1.61
1	B	2849	U	O3'-P	14.24	1.82	1.61
1	B	2473	U	O3'-P	14.23	1.82	1.61
1	B	578	G	O3'-P	14.23	1.82	1.61
1	B	1032	A	O3'-P	14.23	1.82	1.61
1	B	1616	A	C1'-N9	14.23	1.69	1.48
1	B	2860	A	P-O5'	14.23	1.81	1.59
1	B	837	C	C1'-N1	14.23	1.69	1.48
1	B	2358	A	O3'-P	14.23	1.82	1.61
1	B	340	A	O3'-P	14.23	1.82	1.61
1	B	390	U	C1'-N1	14.22	1.69	1.48
1	B	1696	G	C5'-C4'	14.22	1.72	1.51
1	B	2270	A	C1'-N9	14.22	1.69	1.48
1	B	2595	G	O3'-P	14.22	1.82	1.61
1	B	373	U	C1'-N1	14.22	1.69	1.48
1	B	492	A	C1'-N9	14.22	1.69	1.48
1	B	1373	A	O3'-P	14.22	1.82	1.61
1	B	1932	A	C1'-N9	14.22	1.69	1.48
1	B	2033	A	C1'-N9	14.22	1.69	1.48
1	B	502	A	C1'-N9	14.21	1.69	1.48
1	B	676	A	O3'-P	14.21	1.82	1.61
1	B	616	A	O3'-P	14.21	1.82	1.61
1	B	1981	A	C1'-N9	14.21	1.69	1.48
1	B	567	U	C1'-N1	14.21	1.69	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1815	A	O3'-P	14.21	1.82	1.61
1	B	2333	A	C1'-N9	14.21	1.69	1.48
1	B	1783	A	O3'-P	14.21	1.82	1.61
1	B	1110	G	O3'-P	14.20	1.82	1.61
1	B	1762	A	C1'-N9	14.20	1.69	1.48
1	B	63	A	C1'-N9	14.20	1.69	1.48
1	B	1762	A	O3'-P	14.20	1.82	1.61
1	B	1045	C	C1'-N1	14.20	1.69	1.48
1	B	1176	U	C1'-N1	14.20	1.69	1.48
1	B	183	C	C3'-O3'	14.19	1.63	1.42
1	B	972	A	C3'-O3'	14.19	1.63	1.42
1	B	1011	G	O3'-P	14.19	1.82	1.61
1	B	1583	A	O3'-P	14.19	1.82	1.61
1	B	1226	A	O3'-P	14.19	1.82	1.61
1	B	1559	U	C1'-N1	14.19	1.69	1.48
1	B	1524	G	O3'-P	14.19	1.82	1.61
1	B	1817	G	C1'-N9	14.19	1.69	1.48
1	B	1889	A	P-O5'	14.19	1.81	1.59
1	B	480	A	C1'-N9	14.19	1.69	1.48
1	B	2450	A	C1'-N9	14.19	1.69	1.48
1	B	1930	G	C1'-N9	14.19	1.69	1.48
1	B	1033	U	C1'-N1	14.18	1.69	1.48
1	B	1525	A	P-O5'	14.18	1.81	1.59
1	B	2797	U	P-O5'	14.18	1.81	1.59
1	B	244	A	O3'-P	14.18	1.82	1.61
1	B	50	U	C1'-N1	14.18	1.69	1.48
1	B	821	A	C1'-N9	14.18	1.69	1.48
1	B	1565	C	C3'-O3'	14.18	1.63	1.42
1	B	1763	G	P-O5'	14.18	1.81	1.59
1	B	138	U	O3'-P	14.17	1.82	1.61
1	B	1809	A	O3'-P	14.17	1.82	1.61
1	B	2126	A	C1'-N9	14.17	1.69	1.48
1	B	2266	A	C1'-N9	14.17	1.69	1.48
1	B	750	A	C1'-N9	14.17	1.69	1.48
1	B	2307	G	O3'-P	14.17	1.82	1.61
1	B	390	U	O3'-P	14.17	1.82	1.61
1	B	1213	A	C1'-N9	14.17	1.69	1.48
1	B	2629	U	C1'-N1	14.17	1.69	1.48
1	B	1646	C	C1'-N1	14.17	1.69	1.48
1	B	28	A	C1'-N9	14.16	1.69	1.48
1	B	979	A	C1'-N9	14.16	1.69	1.48
1	B	1966	A	C1'-N9	14.16	1.69	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1050	A	C1'-N9	14.16	1.69	1.48
1	B	1251	C	O3'-P	14.15	1.82	1.61
1	B	2502	G	O3'-P	14.15	1.82	1.61
1	B	1931	U	P-O5'	14.15	1.80	1.59
1	B	1497	U	C1'-N1	14.14	1.69	1.48
1	B	1582	C	O3'-P	14.14	1.82	1.61
1	B	567	U	C3'-O3'	14.14	1.63	1.42
1	B	910	A	O3'-P	14.14	1.82	1.61
1	B	2844	G	C1'-N9	14.14	1.68	1.47
1	B	384	A	P-O5'	14.14	1.80	1.59
1	B	718	A	O3'-P	14.14	1.82	1.61
1	B	1133	A	C5'-C4'	14.13	1.72	1.51
1	B	2005	A	C1'-N9	14.13	1.69	1.48
1	B	1859	U	C3'-O3'	14.13	1.63	1.42
1	B	1916	A	C1'-N9	14.13	1.69	1.48
1	B	2167	U	C1'-N1	14.13	1.69	1.48
1	B	391	A	O3'-P	14.12	1.82	1.61
1	B	1713	A	C1'-N9	14.12	1.69	1.48
1	B	2733	A	C1'-N9	14.12	1.69	1.48
1	B	1367	A	C1'-N9	14.12	1.69	1.48
1	B	2168	G	P-O5'	14.12	1.80	1.59
1	B	1282	U	P-O5'	14.12	1.80	1.59
1	B	2891	U	C1'-N1	14.12	1.69	1.48
1	B	243	U	C1'-N1	14.12	1.69	1.48
1	B	1265	A	C1'-N9	14.12	1.69	1.48
1	B	1938	A	C3'-O3'	14.12	1.63	1.42
1	B	556	A	O3'-P	14.11	1.82	1.61
1	B	1312	U	C1'-N1	14.11	1.69	1.48
1	B	2847	U	P-O5'	14.11	1.80	1.59
1	B	1203	U	C1'-N1	14.11	1.69	1.48
1	B	2393	U	O3'-P	14.11	1.82	1.61
1	B	2739	U	C1'-N1	14.10	1.69	1.48
1	B	2613	U	O3'-P	14.10	1.82	1.61
1	B	747	5MU	O3'-P	14.10	1.82	1.61
1	B	1739	A	P-O5'	14.10	1.80	1.59
1	B	2179	C	O3'-P	14.10	1.82	1.61
1	B	2860	A	O3'-P	14.10	1.82	1.61
1	B	1188	U	C1'-N1	14.10	1.69	1.48
1	B	2212	A	C1'-N9	14.10	1.69	1.48
1	B	2199	A	C1'-N9	14.09	1.69	1.48
1	B	405	U	C1'-N1	14.09	1.69	1.48
1	B	2756	U	C1'-N1	14.09	1.69	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	182	A	C1'-N9	14.09	1.69	1.48
1	B	1992	G	C3'-O3'	14.09	1.63	1.42
1	B	2166	U	C1'-N1	14.09	1.69	1.48
1	B	1784	A	C1'-N9	14.09	1.69	1.48
1	B	1141	U	C1'-N1	14.08	1.69	1.48
1	B	547	A	O3'-P	14.08	1.82	1.61
1	B	1268	A	C3'-O3'	14.08	1.63	1.42
1	B	2684	U	C1'-N1	14.08	1.69	1.48
1	B	899	A	P-O5'	14.08	1.80	1.59
1	B	685	A	C1'-N9	14.08	1.69	1.48
1	B	807	U	P-O5'	14.08	1.80	1.59
1	B	2170	A	C1'-N9	14.08	1.69	1.48
1	B	509	C	O3'-P	14.07	1.82	1.61
1	B	2378	A	C1'-N9	14.07	1.69	1.48
1	B	576	U	C1'-N1	14.07	1.69	1.48
1	B	910	A	C1'-N9	14.07	1.69	1.48
1	B	931	U	C1'-N1	14.07	1.69	1.48
1	B	165	A	O3'-P	14.07	1.82	1.61
1	B	614	A	C1'-N9	14.07	1.69	1.48
1	B	788	A	C1'-N9	14.07	1.69	1.48
1	B	2734	A	C5'-C4'	14.07	1.72	1.51
1	B	64	A	C5'-C4'	14.06	1.72	1.51
1	B	1586	A	C3'-O3'	14.06	1.63	1.42
1	B	2683	C	C1'-N1	14.06	1.69	1.48
1	B	2823	A	C1'-N9	14.06	1.69	1.48
1	B	981	A	C1'-N9	14.06	1.69	1.48
1	B	2534	A	C1'-N9	14.06	1.69	1.48
1	B	2598	A	C1'-N9	14.06	1.69	1.48
1	B	2500	U	O3'-P	14.05	1.82	1.61
1	B	2184	A	O3'-P	14.05	1.82	1.61
1	B	362	A	C1'-N9	14.05	1.69	1.48
1	B	804	A	C1'-N9	14.05	1.69	1.48
1	B	1582	C	C1'-N1	14.05	1.69	1.48
1	B	1819	A	C1'-N9	14.05	1.69	1.48
1	B	1885	A	C3'-O3'	14.04	1.63	1.42
1	B	447	A	C1'-N9	14.04	1.69	1.48
1	B	818	G	O3'-P	14.04	1.82	1.61
1	B	2497	A	C1'-N9	14.04	1.69	1.48
1	B	569	U	C1'-N1	14.04	1.69	1.48
1	B	1033	U	O3'-P	14.03	1.82	1.61
1	B	1049	C	C1'-N1	14.04	1.69	1.48
1	B	1251	C	C1'-N1	14.04	1.69	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1580	A	C1'-N9	14.04	1.69	1.48
1	B	1584	U	P-O5'	14.04	1.80	1.59
1	B	627	A	C1'-N9	14.03	1.69	1.48
1	B	734	A	C1'-N9	14.03	1.69	1.48
1	B	1598	A	C1'-N9	14.03	1.69	1.48
1	B	2309	A	C1'-N9	14.03	1.69	1.48
1	B	2602	A	P-O5'	14.03	1.80	1.59
1	B	1250	G	O3'-P	14.02	1.82	1.61
1	B	1223	G	O3'-P	14.02	1.82	1.61
1	B	1328	A	C5'-C4'	14.02	1.72	1.51
1	B	2530	A	C1'-N9	14.02	1.69	1.48
1	B	2533	U	C1'-N1	14.02	1.69	1.48
1	B	2675	A	C1'-N9	14.02	1.69	1.48
1	B	26	G	C1'-N9	14.02	1.69	1.48
1	B	190	A	C1'-N9	14.02	1.69	1.48
1	B	2334	U	C1'-N1	14.02	1.69	1.48
1	B	1115	G	O3'-P	14.01	1.82	1.61
1	B	374	A	C1'-N9	14.00	1.69	1.48
1	B	632	A	C1'-N9	14.00	1.69	1.48
1	B	1249	U	C1'-N1	14.00	1.69	1.48
1	B	2027	G	O3'-P	14.00	1.82	1.61
1	B	432	A	C5'-C4'	13.99	1.72	1.51
1	B	2376	A	C1'-N9	13.99	1.69	1.48
1	B	2609	U	C1'-N1	13.99	1.69	1.48
1	B	2425	A	C1'-N9	13.99	1.69	1.48
1	B	218	A	C1'-N9	13.98	1.69	1.48
1	B	626	A	C1'-N9	13.98	1.69	1.48
1	B	980	A	C1'-N9	13.98	1.69	1.48
1	B	1745	A	C1'-N9	13.98	1.69	1.48
1	B	2477	U	O3'-P	13.98	1.82	1.61
1	B	207	A	C3'-O3'	13.98	1.63	1.42
1	B	959	A	C1'-N9	13.98	1.69	1.48
1	B	1039	A	C1'-N9	13.98	1.69	1.48
1	B	2245	U	C1'-N1	13.98	1.69	1.48
1	B	726	G	O3'-P	13.97	1.82	1.61
1	B	2031	A	C1'-N9	13.97	1.69	1.48
1	B	1000	A	C1'-N9	13.97	1.69	1.48
1	B	2748	A	C1'-N9	13.97	1.69	1.48
1	B	332	A	C1'-N9	13.97	1.69	1.48
1	B	2115	G	C1'-N9	13.97	1.69	1.48
1	B	2145	C	O3'-P	13.97	1.82	1.61
1	B	434	U	O3'-P	13.97	1.82	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	428	A	C5'-C4'	13.96	1.72	1.51
1	B	547	A	C1'-N9	13.96	1.68	1.48
1	B	1366	A	C1'-N9	13.96	1.68	1.48
1	B	449	A	C1'-N9	13.96	1.68	1.48
1	B	1818	U	C1'-N1	13.96	1.69	1.48
1	B	2903	U	C1'-N1	13.96	1.69	1.48
1	B	2311	A	C1'-N9	13.95	1.68	1.48
1	B	1242	U	C1'-N1	13.95	1.69	1.48
1	B	2425	A	C5'-C4'	13.95	1.72	1.51
1	B	454	A	C1'-N9	13.95	1.68	1.48
1	B	251	A	C1'-N9	13.95	1.68	1.48
1	B	829	A	C1'-N9	13.95	1.68	1.48
1	B	845	A	C5'-C4'	13.95	1.72	1.51
1	B	345	A	C1'-N9	13.94	1.68	1.48
1	B	2835	A	C1'-N9	13.94	1.68	1.48
1	B	1782	U	C1'-N1	13.94	1.69	1.48
1	B	751	A	C1'-N9	13.94	1.68	1.48
1	B	1175	A	C1'-N9	13.94	1.68	1.48
1	B	2871	U	C1'-N1	13.93	1.69	1.48
1	B	1801	A	O3'-P	13.93	1.82	1.61
1	B	1567	G	C3'-O3'	13.92	1.63	1.42
1	B	1581	G	C1'-N9	13.92	1.68	1.48
1	B	1275	A	C1'-N9	13.92	1.68	1.48
1	B	1434	A	C1'-N9	13.92	1.68	1.48
1	B	196	A	C1'-N9	13.91	1.68	1.48
1	B	1325	U	C1'-N1	13.91	1.69	1.48
1	B	1046	A	C1'-N9	13.91	1.68	1.48
1	B	1634	A	C1'-N9	13.91	1.68	1.48
1	B	2626	C	C1'-N1	13.91	1.68	1.47
1	B	2022	U	O3'-P	13.91	1.82	1.61
1	B	2595	G	P-O5'	13.91	1.80	1.59
1	B	782	A	C1'-N9	13.91	1.68	1.48
1	B	1205	A	C1'-N9	13.91	1.68	1.48
1	B	643	A	C1'-N9	13.90	1.68	1.48
1	B	1008	A	C1'-N9	13.90	1.68	1.48
1	B	2115	G	P-O5'	13.90	1.80	1.59
1	B	71	A	O3'-P	13.89	1.81	1.61
1	B	276	U	C1'-N1	13.89	1.69	1.48
1	B	1803	A	C5'-C4'	13.89	1.72	1.51
1	B	2756	U	O3'-P	13.89	1.81	1.61
1	B	499	U	C1'-N1	13.89	1.69	1.48
1	B	1373	A	C1'-N9	13.89	1.68	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1640	A	C1'-N9	13.88	1.68	1.48
1	B	2232	C	O3'-P	13.88	1.81	1.61
1	B	2411	A	C1'-N9	13.89	1.68	1.48
1	B	652	U	C3'-O3'	13.88	1.62	1.42
1	B	2014	A	C1'-N9	13.88	1.68	1.48
1	B	1439	A	P-O5'	13.88	1.80	1.59
1	B	216	A	C1'-N9	13.88	1.68	1.48
1	B	536	G	O3'-P	13.88	1.81	1.61
1	B	2203	U	C1'-N1	13.88	1.69	1.48
1	B	1780	A	C1'-N9	13.87	1.68	1.48
1	B	561	G	P-O5'	13.87	1.80	1.59
1	B	886	A	C1'-N9	13.87	1.68	1.48
1	B	1241	A	C5'-C4'	13.87	1.72	1.51
1	B	2327	A	C1'-N9	13.87	1.68	1.48
1	B	1470	A	C1'-N9	13.87	1.68	1.48
1	B	2476	A	O3'-P	13.87	1.81	1.61
1	B	2356	U	O3'-P	13.86	1.81	1.61
1	B	402	A	C1'-N9	13.86	1.68	1.48
1	B	927	A	O3'-P	13.86	1.81	1.61
1	B	2726	A	C1'-N9	13.86	1.68	1.48
1	B	52	A	C1'-N9	13.86	1.68	1.48
1	B	340	A	C1'-N9	13.85	1.68	1.48
1	B	2171	A	C1'-N9	13.85	1.68	1.48
1	B	941	A	O5'-C5'	13.85	1.63	1.42
1	B	1253	A	C1'-N9	13.85	1.68	1.48
1	B	1419	A	C1'-N9	13.85	1.68	1.48
1	B	435	C	P-O5'	13.85	1.80	1.59
1	B	1509	A	C1'-N9	13.85	1.68	1.48
1	B	83	A	O3'-P	13.84	1.81	1.61
1	B	1817	G	O3'-P	13.84	1.81	1.61
1	B	2135	A	C3'-O3'	13.84	1.62	1.42
1	B	735	A	C1'-N9	13.84	1.68	1.48
1	B	2393	U	C1'-N1	13.84	1.69	1.48
1	B	616	A	C1'-N9	13.84	1.68	1.48
1	B	863	A	O3'-P	13.84	1.81	1.61
1	B	1453	A	P-O5'	13.84	1.80	1.59
1	B	878	A	C1'-N9	13.83	1.68	1.48
1	B	2478	A	P-O5'	13.83	1.80	1.59
1	B	1254	A	O5'-C5'	13.83	1.63	1.42
1	B	501	A	C1'-N9	13.83	1.68	1.48
1	B	328	U	C1'-N1	13.83	1.69	1.48
1	B	84	A	C1'-N9	13.82	1.68	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1131	G	O3'-P	13.82	1.81	1.61
1	B	165	A	C1'-N9	13.82	1.68	1.48
1	B	257	C	O3'-P	13.82	1.81	1.61
1	B	715	A	C1'-N9	13.82	1.68	1.48
1	B	1495	A	C1'-N9	13.82	1.68	1.48
1	B	384	A	C1'-N9	13.81	1.68	1.48
1	B	686	U	C1'-N1	13.81	1.69	1.48
1	B	2135	A	C1'-N9	13.81	1.68	1.48
1	B	2757	A	C1'-N9	13.80	1.68	1.48
1	B	1040	A	C1'-N9	13.80	1.68	1.48
1	B	1841	U	O3'-P	13.80	1.81	1.61
1	B	2156	G	C3'-O3'	13.80	1.62	1.42
1	B	973	A	C1'-N9	13.80	1.68	1.48
1	B	2198	A	C1'-N9	13.80	1.68	1.48
1	B	300	A	C1'-N9	13.80	1.68	1.48
1	B	529	A	O3'-P	13.79	1.81	1.61
1	B	371	A	C1'-N9	13.79	1.68	1.48
1	B	1918	A	C1'-N9	13.79	1.68	1.48
1	B	2346	A	C1'-N9	13.79	1.68	1.48
1	B	2304	G	O3'-P	13.79	1.81	1.61
1	B	464	U	C1'-N1	13.79	1.69	1.48
1	B	1242	U	C5'-C4'	13.78	1.72	1.51
1	B	1808	A	C1'-N9	13.78	1.68	1.48
1	B	2563	U	C1'-N1	13.78	1.69	1.48
1	B	1050	A	C5'-C4'	13.78	1.72	1.51
1	B	1476	U	C1'-N1	13.78	1.69	1.48
1	B	1522	A	P-O5'	13.78	1.80	1.59
1	B	1757	A	C1'-N9	13.78	1.68	1.48
1	B	2682	A	C1'-N9	13.78	1.68	1.48
1	B	2274	A	O3'-P	13.78	1.81	1.61
1	B	2594	C	O3'-P	13.78	1.81	1.61
1	B	2885	G	O3'-P	13.78	1.81	1.61
1	B	573	U	C1'-N1	13.77	1.69	1.48
1	B	2432	A	C1'-N9	13.77	1.68	1.48
1	B	2810	A	C1'-N9	13.76	1.68	1.48
1	B	633	A	C1'-N9	13.76	1.68	1.48
1	B	1722	A	C1'-N9	13.76	1.68	1.48
1	B	2850	A	P-O5'	13.76	1.80	1.59
1	B	1809	A	C1'-N9	13.75	1.68	1.48
1	B	763	G	O3'-P	13.75	1.81	1.61
1	B	2904	U	C1'-N1	13.75	1.69	1.48
1	B	1630	A	O3'-P	13.74	1.81	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2147	A	C1'-N9	13.74	1.68	1.48
1	B	1783	A	C1'-N9	13.73	1.68	1.48
1	B	92	U	C1'-N1	13.73	1.69	1.48
1	B	1272	A	C5'-C4'	13.73	1.71	1.51
1	B	1568	G	O3'-P	13.73	1.81	1.61
1	B	1282	U	C1'-N1	13.72	1.69	1.48
1	B	2167	U	O3'-P	13.72	1.81	1.61
1	B	509	C	C1'-N1	13.72	1.69	1.48
1	B	2366	A	O3'-P	13.72	1.81	1.61
1	B	181	A	C1'-N9	13.72	1.68	1.48
1	B	13	A	C1'-N9	13.71	1.68	1.48
1	B	752	A	C1'-N9	13.71	1.68	1.48
1	B	2721	A	C1'-N9	13.72	1.68	1.48
1	B	572	A	O3'-P	13.71	1.81	1.61
1	B	674	G	C1'-N9	13.71	1.68	1.48
1	B	631	A	C1'-N9	13.71	1.68	1.48
1	B	933	A	C3'-O3'	13.71	1.62	1.42
1	B	1365	A	C1'-N9	13.71	1.68	1.48
1	B	2467	C	C3'-O3'	13.71	1.62	1.42
1	B	1678	A	P-O5'	13.70	1.80	1.59
1	B	2504	U	C5'-C4'	13.70	1.71	1.51
1	B	400	G	O3'-P	13.70	1.81	1.61
1	B	880	G	O3'-P	13.69	1.81	1.61
1	B	2734	A	C3'-O3'	13.69	1.62	1.42
1	B	918	A	C1'-N9	13.69	1.68	1.48
1	B	160	A	C1'-N9	13.69	1.68	1.48
1	B	321	U	C3'-O3'	13.69	1.62	1.42
1	B	932	U	C1'-N1	13.69	1.69	1.48
1	B	871	U	O3'-P	13.68	1.81	1.61
1	B	1433	A	C1'-N9	13.68	1.68	1.48
1	B	571	U	O3'-P	13.67	1.81	1.61
1	B	1884	G	C3'-O3'	13.67	1.62	1.42
1	B	2860	A	C1'-N9	13.67	1.68	1.48
1	B	1342	A	C1'-N9	13.67	1.68	1.48
1	B	1354	A	C1'-N9	13.67	1.68	1.48
1	B	2041	U	C5'-C4'	13.67	1.71	1.51
1	B	278	A	C1'-N9	13.66	1.68	1.48
1	B	1130	U	C1'-N1	13.66	1.69	1.48
1	B	1263	U	C1'-N1	13.66	1.69	1.48
1	B	14	A	C1'-N9	13.66	1.68	1.48
1	B	383	C	O3'-P	13.65	1.81	1.61
1	B	2168	G	C1'-N9	13.65	1.68	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2356	U	C1'-N1	13.65	1.69	1.48
1	B	446	G	C1'-N9	13.64	1.68	1.48
1	B	1284	A	C3'-O3'	13.63	1.62	1.42
1	B	613	A	C1'-N9	13.63	1.68	1.48
1	B	199	A	C1'-N9	13.63	1.68	1.48
1	B	2163	A	C1'-N9	13.62	1.68	1.48
1	B	1392	A	C1'-N9	13.62	1.68	1.48
1	B	179	C	C1'-N1	13.62	1.68	1.48
1	B	2821	A	C1'-N9	13.62	1.68	1.48
1	B	2225	A	C1'-N9	13.61	1.68	1.48
1	B	1664	A	C1'-N9	13.61	1.68	1.48
1	B	1855	U	O5'-C5'	13.61	1.62	1.42
1	B	1931	U	C1'-N1	13.61	1.67	1.47
1	B	72	U	P-O5'	13.60	1.80	1.59
1	B	1866	A	C1'-N9	13.60	1.68	1.48
1	B	2825	G	O3'-P	13.60	1.81	1.61
1	B	1899	A	C1'-N9	13.60	1.68	1.48
1	B	1451	C	O5'-C5'	13.60	1.62	1.42
1	B	478	A	C1'-N9	13.59	1.68	1.48
1	B	1758	U	C1'-N1	13.59	1.68	1.48
1	B	34	U	C3'-O3'	13.59	1.62	1.42
1	B	1007	C	O3'-P	13.59	1.81	1.61
1	B	1676	A	O3'-P	13.59	1.81	1.61
1	B	1552	A	C1'-N9	13.59	1.68	1.48
1	B	1307	A	O3'-P	13.58	1.81	1.61
1	B	1286	A	C1'-N9	13.58	1.68	1.48
1	B	2274	A	C1'-N9	13.58	1.68	1.48
1	B	2834	G	O3'-P	13.58	1.81	1.61
1	B	984	A	C1'-N9	13.58	1.68	1.48
1	B	876	C	O3'-P	13.58	1.81	1.61
1	B	2086	U	C3'-O3'	13.57	1.62	1.42
1	B	847	U	C3'-O3'	13.57	1.62	1.42
1	B	1378	A	C1'-N9	13.56	1.68	1.48
1	B	1715	G	O3'-P	13.56	1.81	1.61
1	B	864	G	C1'-N9	13.56	1.68	1.48
1	B	1023	U	C1'-N1	13.56	1.68	1.48
1	B	1888	G	O3'-P	13.56	1.81	1.61
1	B	789	A	C1'-N9	13.55	1.68	1.48
1	B	2388	A	C1'-N9	13.55	1.68	1.48
1	B	716	A	C1'-N9	13.54	1.68	1.48
1	B	2703	C	C1'-N1	13.54	1.68	1.48
1	B	2132	U	C1'-N1	13.54	1.68	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1970	A	O5'-C5'	13.53	1.62	1.42
1	B	391	A	C1'-N9	13.52	1.68	1.48
1	B	447	A	O3'-P	13.52	1.81	1.61
1	B	2572	A	C1'-N9	13.52	1.68	1.48
1	B	1608	A	C1'-N9	13.52	1.68	1.48
1	B	1129	A	C5'-C4'	13.52	1.71	1.51
1	B	1677	A	P-O5'	13.52	1.80	1.59
1	B	1773	A	C1'-N9	13.52	1.68	1.48
1	B	1933	G	C5'-C4'	13.52	1.71	1.51
1	B	1127	A	C1'-N9	13.49	1.68	1.48
1	B	1706	C	O3'-P	13.49	1.81	1.61
1	B	453	A	C1'-N9	13.49	1.68	1.48
1	B	1626	A	C5'-C4'	13.49	1.71	1.51
1	B	2757	A	O3'-P	13.49	1.81	1.61
1	B	2534	A	O3'-P	13.48	1.81	1.61
1	B	1432	G	O3'-P	13.48	1.81	1.61
1	B	931	U	O3'-P	13.47	1.81	1.61
1	B	1992	G	C5'-C4'	13.46	1.71	1.51
1	B	793	A	C1'-N9	13.46	1.68	1.48
1	B	1048	A	O5'-C5'	13.46	1.62	1.42
1	B	2019	A	C1'-N9	13.46	1.68	1.48
1	B	460	A	C3'-O3'	13.45	1.62	1.42
1	B	532	A	C1'-N9	13.45	1.68	1.48
1	B	564	C	C1'-N1	13.45	1.68	1.48
1	B	575	A	C1'-N9	13.45	1.68	1.48
1	B	1396	U	C1'-N1	13.45	1.68	1.48
1	B	984	A	O3'-P	13.45	1.81	1.61
1	B	2322	A	C5'-C4'	13.45	1.77	1.51
1	B	1553	A	C1'-N9	13.45	1.68	1.48
1	B	1872	A	C1'-N9	13.44	1.68	1.48
1	B	2468	A	C5'-C4'	13.43	1.71	1.51
1	B	277	G	C3'-O3'	13.42	1.62	1.42
1	B	2059	A	C1'-N9	13.42	1.68	1.48
1	B	118	A	C5'-C4'	13.41	1.71	1.51
1	B	263	G	C3'-O3'	13.41	1.62	1.42
1	B	497	A	C3'-O3'	13.41	1.62	1.42
1	B	1834	U	C3'-O3'	13.41	1.62	1.42
1	B	1943	U	O5'-C5'	13.40	1.62	1.42
1	B	2695	U	O3'-P	13.40	1.81	1.61
1	B	368	A	C5'-C4'	13.39	1.71	1.51
1	B	1111	A	C1'-N9	13.39	1.68	1.48
1	B	1664	A	O5'-C5'	13.39	1.62	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2366	A	C1'-N9	13.39	1.68	1.48
1	B	1738	G	O3'-P	13.39	1.81	1.61
1	B	498	G	C1'-N9	13.38	1.68	1.48
1	B	1235	G	O3'-P	13.38	1.81	1.61
1	B	1828	G	C1'-N9	13.38	1.68	1.48
1	B	1029	A	C1'-N9	13.37	1.68	1.48
1	B	215	G	O5'-C5'	13.37	1.62	1.42
1	B	466	A	C1'-N9	13.36	1.68	1.48
1	B	2753	A	C1'-N9	13.36	1.68	1.48
1	B	227	A	O3'-P	13.36	1.81	1.61
1	B	2267	A	C1'-N9	13.35	1.68	1.48
1	B	2042	A	C3'-O3'	13.35	1.62	1.42
1	B	139	U	C1'-N1	13.35	1.68	1.48
1	B	450	G	C1'-N9	13.35	1.68	1.48
1	B	1810	A	O3'-P	13.35	1.81	1.61
1	B	112	U	C1'-N1	13.34	1.68	1.48
1	B	1128	G	C3'-O3'	13.34	1.62	1.42
1	B	1545	A	C1'-N9	13.34	1.68	1.48
1	B	2173	A	C3'-O3'	13.34	1.62	1.42
1	B	504	A	C1'-N9	13.34	1.68	1.48
1	B	749	A	C1'-N9	13.34	1.68	1.48
1	B	2721	A	O3'-P	13.34	1.81	1.61
1	B	92	U	C3'-O3'	13.34	1.62	1.42
1	B	73	A	C1'-N9	13.33	1.68	1.48
1	B	331	C	C3'-O3'	13.33	1.62	1.42
1	B	1928	A	O3'-P	13.33	1.81	1.61
1	B	2357	G	C1'-N9	13.33	1.68	1.48
1	B	912	C	C3'-O3'	13.32	1.62	1.42
1	B	1490	A	C1'-N9	13.32	1.68	1.48
1	B	111	A	C1'-N9	13.32	1.68	1.48
1	B	219	A	C5'-C4'	13.32	1.71	1.51
1	B	805	G	O3'-P	13.32	1.81	1.61
1	B	1457	U	C1'-N1	13.31	1.68	1.48
1	B	1583	A	C1'-N9	13.31	1.68	1.48
1	B	2883	A	C1'-N9	13.31	1.68	1.48
1	B	528	A	C1'-N9	13.31	1.68	1.48
1	B	15	G	C1'-N9	13.30	1.68	1.48
1	B	47	C	C5'-C4'	13.30	1.71	1.51
1	B	508	A	C1'-N9	13.30	1.68	1.48
1	B	1803	A	C1'-N9	13.30	1.68	1.48
1	B	1869	G	C3'-O3'	13.30	1.62	1.42
1	B	2448	A	C3'-O3'	13.29	1.62	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1439	A	C3'-O3'	13.29	1.62	1.42
1	B	757	G	O3'-P	13.29	1.81	1.61
1	B	898	C	O3'-P	13.29	1.81	1.61
1	B	807	U	C1'-N1	13.28	1.68	1.48
1	B	264	C	C3'-O3'	13.28	1.62	1.42
1	B	1784	A	O3'-P	13.28	1.81	1.61
1	B	864	G	P-O5'	13.28	1.79	1.59
1	B	1122	G	O3'-P	13.28	1.81	1.61
1	B	337	C	O3'-P	13.28	1.81	1.61
1	B	654	A	C1'-N9	13.27	1.67	1.48
1	B	1608	A	C5'-C4'	13.27	1.71	1.51
1	B	1739	A	C3'-O3'	13.27	1.62	1.42
1	B	563	A	C1'-N9	13.27	1.67	1.48
1	B	298	G	C5'-C4'	13.26	1.71	1.51
1	B	802	A	C1'-N9	13.26	1.66	1.47
1	B	1570	A	C1'-N9	13.26	1.67	1.48
1	B	1889	A	C1'-N9	13.26	1.67	1.48
1	B	958	U	C1'-N1	13.25	1.68	1.48
1	B	1287	A	C1'-N9	13.24	1.67	1.48
1	B	1566	A	C1'-N9	13.24	1.67	1.48
1	B	2496	C	O3'-P	13.24	1.81	1.61
1	B	1870	C	C5'-C4'	13.24	1.71	1.51
1	B	2478	A	C1'-N9	13.24	1.67	1.48
1	B	995	C	O3'-P	13.23	1.81	1.61
1	B	1936	A	C3'-O3'	13.23	1.61	1.42
1	B	422	A	C1'-N9	13.23	1.67	1.48
1	B	2497	A	P-O5'	13.23	1.79	1.59
1	B	1790	C	C5'-C4'	13.23	1.71	1.51
1	B	71	A	O5'-C5'	13.22	1.62	1.42
1	B	443	A	C1'-N9	13.22	1.67	1.48
1	B	448	U	C3'-O3'	13.22	1.61	1.42
1	B	2555	U	C3'-O3'	13.22	1.62	1.43
1	B	219	A	C1'-N9	13.22	1.67	1.48
1	B	2575	C	C1'-N1	13.22	1.68	1.48
1	B	906	U	C1'-N1	13.22	1.68	1.48
1	B	197	A	O3'-P	13.21	1.80	1.61
1	B	227	A	C1'-N9	13.21	1.67	1.48
1	B	1111	A	O3'-P	13.21	1.80	1.61
1	B	792	A	C1'-N9	13.20	1.67	1.48
1	B	127	A	C1'-N9	13.19	1.66	1.47
1	B	1579	A	C1'-N9	13.18	1.67	1.48
1	B	2476	A	C1'-N9	13.18	1.67	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	989	G	C5'-C4'	13.17	1.71	1.51
1	B	1681	G	P-O5'	13.17	1.79	1.59
1	B	46	G	C3'-O3'	13.16	1.61	1.42
1	B	1301	A	C1'-N9	13.16	1.67	1.48
1	B	279	A	C1'-N9	13.16	1.67	1.48
1	B	1940	U	C1'-N1	13.16	1.68	1.48
1	B	1937	A	C1'-N9	13.16	1.67	1.48
1	B	2847	U	C1'-N1	13.16	1.68	1.48
1	B	2035	G	C3'-O3'	13.15	1.61	1.42
1	B	2645	G	C5'-C4'	13.15	1.71	1.51
1	B	1928	A	C1'-N9	13.14	1.67	1.48
1	B	373	U	C3'-O3'	13.14	1.61	1.42
1	B	472	A	C1'-N9	13.13	1.67	1.48
1	B	1740	G	C3'-O3'	13.13	1.61	1.42
1	B	2859	G	O3'-P	13.13	1.80	1.61
1	B	2903	U	O5'-C5'	13.13	1.62	1.42
1	B	1028	A	C1'-N9	13.13	1.67	1.48
1	B	1115	G	C3'-O3'	13.12	1.61	1.42
1	B	1281	G	O3'-P	13.12	1.80	1.61
1	B	788	A	C5'-C4'	13.11	1.71	1.51
1	B	459	U	C1'-N1	13.11	1.68	1.48
1	B	1009	A	C3'-O3'	13.11	1.61	1.42
1	B	2082	A	C1'-N9	13.11	1.67	1.48
1	B	472	A	O3'-P	13.11	1.80	1.61
1	B	2585	U	C1'-N1	13.11	1.68	1.48
1	B	1739	A	C1'-N9	13.10	1.67	1.48
1	B	141	G	O3'-P	13.09	1.80	1.61
1	B	207	A	C5'-C4'	13.09	1.70	1.51
1	B	1676	A	C1'-N9	13.09	1.67	1.48
1	B	477	A	C1'-N9	13.08	1.67	1.48
1	B	981	A	O3'-P	13.08	1.80	1.61
1	B	2172	U	C1'-N1	13.07	1.68	1.48
1	B	2371	G	O3'-P	13.06	1.80	1.61
1	B	217	A	O3'-P	13.06	1.80	1.61
1	B	945	A	C1'-N9	13.06	1.67	1.48
1	B	706	A	C1'-N9	13.05	1.67	1.48
1	B	983	A	C1'-N9	13.05	1.67	1.48
1	B	804	A	O5'-C5'	13.04	1.62	1.42
1	B	2684	U	C3'-O3'	13.03	1.61	1.42
1	B	2689	U	C3'-O3'	13.03	1.61	1.42
1	B	1584	U	C1'-N1	13.02	1.68	1.48
1	B	1022	G	C5'-C4'	13.02	1.70	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1759	A	C1'-N9	13.02	1.67	1.48
1	B	2826	A	C1'-N9	13.01	1.67	1.48
1	B	2587	A	C1'-N9	13.01	1.67	1.48
1	B	1312	U	C5'-C4'	13.00	1.70	1.51
1	B	1791	A	C5'-C4'	13.00	1.70	1.51
1	B	102	U	C5'-C4'	13.00	1.70	1.51
1	B	2723	C	C3'-O3'	13.00	1.61	1.42
1	B	876	C	C1'-N1	12.99	1.68	1.48
1	B	2275	C	O3'-P	12.99	1.80	1.61
1	B	2724	U	C1'-N1	12.99	1.68	1.48
1	B	877	A	C3'-O3'	12.98	1.61	1.42
1	B	2610	C	C5'-C4'	12.98	1.70	1.51
1	B	571	U	C5'-C4'	12.97	1.70	1.51
1	B	1452	G	O3'-P	12.96	1.80	1.61
1	B	2844	G	C5'-C4'	12.95	1.70	1.51
1	B	1311	G	C3'-O3'	12.95	1.61	1.42
1	B	653	U	C5'-C4'	12.94	1.70	1.51
1	B	94	A	C1'-N9	12.94	1.67	1.48
1	B	830	G	O3'-P	12.94	1.80	1.61
1	B	2021	C	C3'-O3'	12.94	1.61	1.42
1	B	1521	G	C3'-O3'	12.94	1.61	1.42
1	B	1925	C	C5'-C4'	12.94	1.70	1.51
1	B	1010	A	C1'-N9	12.94	1.67	1.48
1	B	2725	A	C3'-O3'	12.94	1.61	1.42
1	B	2553	G	C3'-O3'	12.93	1.61	1.42
1	B	217	A	C3'-O3'	12.93	1.61	1.42
1	B	197	A	C1'-N9	12.93	1.67	1.48
1	B	1302	A	C5'-C4'	12.92	1.70	1.51
1	B	2112	G	O5'-C5'	12.91	1.61	1.42
1	B	269	C	C5'-C4'	12.90	1.70	1.51
1	B	1681	G	C3'-O3'	12.88	1.61	1.42
1	B	1927	A	P-O5'	12.88	1.85	1.59
1	B	1468	U	C5'-C4'	12.88	1.70	1.51
1	B	1139	G	C1'-N9	12.87	1.67	1.48
1	B	568	U	C5'-C4'	12.87	1.70	1.51
1	B	2871	U	O5'-C5'	12.86	1.61	1.42
1	B	1635	A	C1'-N9	12.86	1.67	1.48
1	B	781	A	C1'-N9	12.86	1.67	1.48
1	B	331	C	C5'-C4'	12.85	1.70	1.51
1	B	1010	A	O3'-P	12.85	1.80	1.61
1	B	2879	A	C1'-N9	12.85	1.67	1.48
1	B	269	C	C3'-O3'	12.85	1.61	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2740	A	C1'-N9	12.85	1.67	1.48
1	B	2886	A	C1'-N9	12.84	1.67	1.48
1	B	1572	A	C1'-N9	12.83	1.67	1.48
1	B	2562	U	C3'-O3'	12.82	1.62	1.43
1	B	1925	C	C3'-O3'	12.81	1.62	1.43
1	B	275	C	C1'-N1	12.81	1.67	1.48
1	B	1970	A	C1'-N9	12.81	1.67	1.48
1	B	321	U	C5'-C4'	12.80	1.70	1.51
1	B	404	A	C3'-O3'	12.80	1.61	1.42
1	B	1941	C	C5'-C4'	12.80	1.70	1.51
1	B	2042	A	O5'-C5'	12.80	1.61	1.42
1	B	2439	A	O5'-C5'	12.80	1.61	1.42
1	B	2722	G	C3'-O3'	12.79	1.61	1.42
1	B	126	A	C1'-N9	12.79	1.67	1.48
1	B	2454	G	O5'-C5'	12.79	1.61	1.42
1	B	1631	G	P-O5'	12.78	1.78	1.59
1	B	2013	A	O3'-P	12.78	1.80	1.61
1	B	918	A	C3'-O3'	12.78	1.61	1.42
1	B	2887	A	C3'-O3'	12.78	1.61	1.42
1	B	788	A	C3'-O3'	12.77	1.61	1.42
1	B	1699	G	O3'-P	12.77	1.80	1.61
1	B	1942	C	C1'-N1	12.77	1.67	1.48
1	B	119	A	O5'-C5'	12.77	1.61	1.42
1	B	449	A	O5'-C5'	12.77	1.61	1.42
1	B	566	U	C5'-C4'	12.77	1.70	1.51
1	B	1886	U	O3'-P	12.76	1.80	1.61
1	B	566	U	C1'-N1	12.76	1.67	1.48
1	B	1467	U	C3'-O3'	12.76	1.61	1.42
1	B	1553	A	O3'-P	12.74	1.80	1.61
1	B	1570	A	C5'-C4'	12.74	1.70	1.51
1	B	2810	A	O3'-P	12.74	1.80	1.61
1	B	1312	U	C3'-O3'	12.73	1.61	1.42
1	B	988	A	C3'-O3'	12.72	1.61	1.42
1	B	975	A	C1'-N9	12.72	1.67	1.48
1	B	2639	A	C1'-N9	12.71	1.67	1.48
1	B	2614	A	O3'-P	12.70	1.80	1.61
1	B	2405	G	C3'-O3'	12.70	1.61	1.42
1	B	431	U	C3'-O3'	12.70	1.61	1.42
1	B	140	C	C3'-O3'	12.70	1.61	1.42
1	B	2810	A	C5'-C4'	12.69	1.70	1.51
1	B	2807	U	C1'-N1	12.68	1.67	1.48
1	B	568	U	C3'-O3'	12.67	1.61	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	429	A	O5'-C5'	12.67	1.68	1.43
1	B	2021	C	C5'-C4'	12.66	1.70	1.51
1	B	861	A	C1'-N9	12.66	1.67	1.48
1	B	1344	U	O3'-P	12.66	1.80	1.61
1	B	1241	A	C1'-N9	12.65	1.67	1.48
1	B	1610	A	C5'-C4'	12.65	1.70	1.51
1	B	2060	A	C5'-C4'	12.65	1.70	1.51
1	B	1712	U	O3'-P	12.64	1.80	1.61
1	B	1384	A	C1'-N9	12.63	1.66	1.48
1	B	1872	A	O3'-P	12.63	1.80	1.61
1	B	899	A	C3'-O3'	12.63	1.61	1.42
1	B	1585	C	O3'-P	12.62	1.80	1.61
1	B	2887	A	C1'-N9	12.62	1.66	1.48
1	B	2365	G	C5'-C4'	12.62	1.70	1.51
1	B	675	A	C3'-O3'	12.60	1.61	1.42
1	B	1455	G	C1'-N9	12.60	1.66	1.48
1	B	2503	A	C1'-N9	12.60	1.66	1.48
1	B	1740	G	C5'-C4'	12.60	1.70	1.51
1	B	896	A	C1'-N9	12.59	1.66	1.48
1	B	1564	C	O3'-P	12.59	1.80	1.61
1	B	1886	U	C1'-N1	12.59	1.67	1.48
1	B	2352	A	C1'-N9	12.59	1.66	1.48
1	B	1021	A	C1'-N9	12.59	1.66	1.48
1	B	942	G	C5'-C4'	12.57	1.70	1.51
1	B	103	A	O5'-C5'	12.56	1.61	1.42
1	B	1197	G	C5'-C4'	12.55	1.70	1.51
1	B	1857	G	C3'-O3'	12.55	1.60	1.42
1	B	2765	A	C1'-N9	12.55	1.66	1.48
1	B	255	A	C5'-C4'	12.54	1.70	1.51
1	B	1274	A	C1'-N9	12.54	1.65	1.47
1	B	2690	U	C5'-C4'	12.54	1.70	1.51
1	B	2870	C	C3'-O3'	12.53	1.60	1.42
1	B	651	G	C5'-C4'	12.52	1.70	1.51
1	B	685	A	O5'-C5'	12.52	1.61	1.42
1	B	2645	G	C3'-O3'	12.52	1.60	1.42
1	B	811	U	C5'-C4'	12.51	1.70	1.51
1	B	2041	U	C1'-N1	12.51	1.67	1.48
1	B	1309	G	O3'-P	12.50	1.79	1.61
1	B	1569	A	C1'-N9	12.49	1.66	1.48
1	B	1301	A	C5'-C4'	12.49	1.70	1.51
1	B	2684	U	C5'-C4'	12.48	1.70	1.51
1	B	1871	A	C1'-N9	12.48	1.66	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1866	A	O5'-C5'	12.48	1.61	1.42
1	B	1816	C	C3'-O3'	12.48	1.60	1.42
1	B	1883	U	C1'-N1	12.48	1.67	1.48
1	B	779	U	C1'-N1	12.47	1.67	1.48
1	B	1676	A	C5'-C4'	12.46	1.70	1.51
1	B	2705	A	C1'-N9	12.45	1.66	1.48
1	B	299	A	C5'-C4'	12.44	1.70	1.51
1	B	1891	G	C3'-O3'	12.44	1.60	1.42
1	B	2358	A	C1'-N9	12.43	1.66	1.48
1	B	1271	G	C3'-O3'	12.42	1.60	1.42
1	B	1046	A	C3'-O3'	12.41	1.60	1.42
1	B	2378	A	C3'-O3'	12.41	1.60	1.42
1	B	734	A	C3'-O3'	12.41	1.60	1.42
1	B	1428	C	O5'-C5'	12.40	1.61	1.42
1	B	2566	A	C1'-N9	12.40	1.66	1.48
1	B	117	G	C5'-C4'	12.40	1.69	1.51
1	B	2020	A	C3'-O3'	12.39	1.61	1.43
1	B	229	C	O3'-P	12.39	1.79	1.61
1	B	500	G	C3'-O3'	12.38	1.60	1.42
1	B	905	A	O3'-P	12.38	1.79	1.61
1	B	918	A	C5'-C4'	12.38	1.69	1.51
1	B	487	C	O3'-P	12.37	1.79	1.61
1	B	776	G	O5'-C5'	12.37	1.61	1.42
1	B	479	A	C1'-N9	12.37	1.66	1.48
1	B	927	A	C1'-N9	12.37	1.66	1.48
1	B	2820	A	C1'-N9	12.37	1.66	1.48
1	B	1966	A	C3'-O3'	12.36	1.60	1.42
1	B	2505	G	C5'-C4'	12.35	1.69	1.51
1	B	2614	A	C1'-N9	12.34	1.66	1.48
1	B	431	U	O5'-C5'	12.33	1.60	1.42
1	B	2352	A	O3'-P	12.32	1.79	1.61
1	B	727	A	C1'-N9	12.32	1.66	1.48
1	B	2809	A	C1'-N9	12.31	1.66	1.48
1	B	2157	G	C5'-C4'	12.31	1.69	1.51
1	B	982	C	C3'-O3'	12.31	1.60	1.42
1	B	2451	A	C1'-N9	12.30	1.66	1.48
1	B	117	G	C3'-O3'	12.30	1.60	1.42
1	B	1521	G	C5'-C4'	12.30	1.69	1.51
1	B	2483	C	C3'-O3'	12.30	1.60	1.42
1	B	2158	A	C3'-O3'	12.29	1.60	1.42
1	B	913	U	C3'-O3'	12.29	1.60	1.42
1	B	2629	U	C3'-O3'	12.29	1.60	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	675	A	C1'-N9	12.29	1.66	1.48
1	B	1196	C	O5'-C5'	12.29	1.60	1.42
1	B	1900	A	O3'-P	12.28	1.79	1.61
1	B	1242	U	C3'-O3'	12.28	1.60	1.42
1	B	1800	C	C5'-C4'	12.28	1.69	1.51
1	B	1455	G	C5'-C4'	12.27	1.69	1.51
1	B	836	G	C5'-C4'	12.26	1.69	1.51
1	B	2051	A	C5'-C4'	12.26	1.69	1.51
1	B	2628	C	C3'-O3'	12.25	1.60	1.42
1	B	9	G	C5'-C4'	12.25	1.69	1.51
1	B	125	A	C1'-N9	12.25	1.66	1.48
1	B	294	A	O3'-P	12.23	1.79	1.61
1	B	2725	A	C5'-C4'	12.23	1.69	1.51
1	B	207	A	O5'-C5'	12.22	1.60	1.42
1	B	564	C	C3'-O3'	12.21	1.60	1.42
1	B	229	C	C3'-O3'	12.21	1.60	1.42
1	B	2135	A	O3'-P	12.20	1.79	1.61
1	B	1900	A	C3'-O3'	12.20	1.60	1.42
1	B	2423	U	C3'-O3'	12.20	1.60	1.42
1	B	2752	C	C5'-C4'	12.20	1.69	1.51
1	B	2113	U	O5'-C5'	12.19	1.60	1.42
1	B	369	U	C3'-O3'	12.19	1.60	1.42
1	B	2166	U	C3'-O3'	12.17	1.60	1.42
1	B	1546	G	C5'-C4'	12.16	1.69	1.51
1	B	2531	A	C1'-N9	12.15	1.66	1.48
1	B	1248	G	C3'-O3'	12.14	1.60	1.42
1	B	800	A	C1'-N9	12.14	1.66	1.48
1	B	2448	A	C5'-C4'	12.14	1.69	1.51
1	B	1552	A	C3'-O3'	12.14	1.60	1.42
1	B	2554	U	C5'-C4'	12.13	1.69	1.51
1	B	278	A	C5'-C4'	12.13	1.69	1.51
1	B	1928	A	C5'-C4'	12.13	1.69	1.51
1	B	801	G	C3'-O3'	12.12	1.60	1.42
1	B	677	A	C3'-O3'	12.11	1.60	1.42
1	B	674	G	C3'-O3'	12.10	1.60	1.42
1	B	2850	A	C3'-O3'	12.08	1.60	1.42
1	B	2821	A	C5'-C4'	12.07	1.69	1.51
1	B	428	A	C1'-N9	12.07	1.66	1.48
1	B	1695	G	C3'-O3'	12.07	1.60	1.42
1	B	920	A	C5'-C4'	12.06	1.69	1.51
1	B	1791	A	C3'-O3'	12.06	1.60	1.42
1	B	2845	U	C1'-N1	12.05	1.66	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	215	G	C1'-N9	12.04	1.66	1.48
1	B	1023	U	C3'-O3'	12.04	1.60	1.42
1	B	2425	A	C3'-O3'	12.04	1.60	1.42
1	B	705	A	C3'-O3'	12.03	1.60	1.42
1	B	1678	A	C3'-O3'	12.01	1.60	1.42
1	B	298	G	C3'-O3'	12.01	1.60	1.42
1	B	1322	A	C5'-C4'	12.00	1.69	1.51
1	B	452	G	C5'-C4'	11.99	1.69	1.51
1	B	1212	G	C3'-O3'	11.98	1.60	1.42
1	B	2468	A	C3'-O3'	11.98	1.60	1.42
1	B	1135	C	C5'-C4'	11.96	1.69	1.51
1	B	213	A	C5'-C4'	11.95	1.69	1.51
1	B	609	A	C3'-O3'	11.95	1.60	1.42
1	B	1131	G	O5'-C5'	11.95	1.60	1.42
1	B	588	U	C1'-N1	11.95	1.65	1.47
1	B	1252	G	C1'-N9	11.94	1.65	1.48
1	B	1951	U	C5'-C4'	11.94	1.69	1.51
1	B	2639	A	C3'-O3'	11.94	1.60	1.42
1	B	706	A	C5'-C4'	11.93	1.69	1.51
1	B	1902	C	O3'-P	11.93	1.79	1.61
1	B	1696	G	C3'-O3'	11.93	1.60	1.42
1	B	1515	A	C1'-N9	11.93	1.65	1.48
1	B	1426	G	C3'-O3'	11.92	1.60	1.42
1	B	1284	A	C5'-C4'	11.92	1.69	1.51
1	B	1570	A	C3'-O3'	11.92	1.60	1.42
1	B	2504	U	C1'-N1	11.92	1.66	1.48
1	B	488	G	C5'-C4'	11.91	1.69	1.51
1	B	1565	C	C1'-N1	11.91	1.66	1.48
1	B	2346	A	C3'-O3'	11.91	1.60	1.42
1	B	477	A	C5'-C4'	11.90	1.69	1.51
1	B	277	G	C5'-C4'	11.90	1.69	1.51
1	B	739	A	C3'-O3'	11.90	1.60	1.42
1	B	2020	A	C5'-C4'	11.90	1.69	1.51
1	B	412	A	C3'-O3'	11.88	1.59	1.42
1	B	471	A	C3'-O3'	11.88	1.59	1.42
1	B	34	U	C5'-C4'	11.88	1.69	1.51
1	B	127	A	C3'-O3'	11.87	1.60	1.43
1	B	567	U	C5'-C4'	11.86	1.69	1.51
1	B	1466	U	O5'-C5'	11.85	1.60	1.42
1	B	2019	A	C3'-O3'	11.85	1.59	1.42
1	B	94	A	O5'-C5'	11.84	1.60	1.42
1	B	859	G	P-O5'	11.84	1.77	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1569	A	C5'-C4'	11.83	1.69	1.51
1	B	111	A	O5'-C5'	11.82	1.60	1.42
1	B	457	A	C3'-O3'	11.82	1.59	1.42
1	B	198	C	C3'-O3'	11.81	1.59	1.42
1	B	329	G	C5'-C4'	11.81	1.69	1.51
1	B	1790	C	C1'-N1	11.80	1.66	1.48
1	B	458	G	C3'-O3'	11.79	1.59	1.42
1	B	588	U	C5'-C4'	11.78	1.69	1.51
1	B	26	G	O5'-C5'	11.78	1.60	1.42
1	B	1668	A	C5'-C4'	11.78	1.69	1.51
1	B	1301	A	C3'-O3'	11.77	1.59	1.42
1	B	1049	C	C3'-O3'	11.77	1.59	1.42
1	B	916	G	C5'-C4'	11.77	1.68	1.51
1	B	92	U	O5'-C5'	11.76	1.60	1.42
1	B	1800	C	C3'-O3'	11.76	1.59	1.42
1	B	652	U	C5'-C4'	11.76	1.68	1.51
1	B	471	A	C1'-N9	11.74	1.65	1.48
1	B	1126	A	C1'-N9	11.74	1.65	1.48
1	B	2607	G	C3'-O3'	11.74	1.59	1.42
1	B	369	U	O5'-C5'	11.73	1.60	1.42
1	B	2322	A	C3'-O3'	11.73	1.65	1.42
1	B	2890	G	C3'-O3'	11.73	1.59	1.42
1	B	1940	U	C3'-O3'	11.73	1.59	1.42
1	B	2683	C	C5'-C4'	11.73	1.68	1.51
1	B	1020	A	C1'-N9	11.72	1.65	1.48
1	B	1475	G	C3'-O3'	11.72	1.59	1.42
1	B	423	A	C3'-O3'	11.68	1.59	1.42
1	B	1723	G	C3'-O3'	11.67	1.59	1.42
1	B	2082	A	O3'-P	11.66	1.78	1.61
1	B	2838	G	O3'-P	11.66	1.78	1.61
1	B	1968	G	C3'-O3'	11.65	1.59	1.42
1	B	2724	U	C5'-C4'	11.65	1.68	1.51
1	B	864	G	C5'-C4'	11.65	1.68	1.51
1	B	189	G	C5'-C4'	11.64	1.68	1.51
1	B	1460	U	C3'-O3'	11.64	1.59	1.42
1	B	15	G	C3'-O3'	11.64	1.59	1.42
1	B	762	U	O5'-C5'	11.64	1.59	1.42
1	B	1679	A	C1'-N9	11.64	1.65	1.48
1	B	1678	A	C5'-C4'	11.63	1.68	1.51
1	B	1697	G	C5'-C4'	11.63	1.68	1.51
1	B	215	G	C3'-O3'	11.63	1.59	1.42
1	B	1944	U	C1'-N1	11.62	1.71	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2020	A	C1'-N9	11.62	1.64	1.47
1	B	876	C	C3'-O3'	11.62	1.59	1.42
1	B	497	A	C5'-C4'	11.60	1.68	1.51
1	B	479	A	C5'-C4'	11.60	1.68	1.51
1	B	2627	G	C5'-C4'	11.59	1.68	1.51
1	B	2719	G	C5'-C4'	11.59	1.68	1.51
1	B	2809	A	C3'-O3'	11.59	1.59	1.42
1	B	84	A	C5'-C4'	11.58	1.68	1.51
1	B	84	A	C3'-O3'	11.58	1.59	1.42
1	B	1222	U	O3'-P	11.58	1.78	1.61
1	B	1045	C	C5'-C4'	11.57	1.68	1.51
1	B	2689	U	C5'-C4'	11.57	1.68	1.51
1	B	1752	C	C3'-O3'	11.56	1.59	1.42
1	B	2614	A	C3'-O3'	11.56	1.59	1.42
1	B	299	A	C3'-O3'	11.56	1.59	1.42
1	B	2607	G	C5'-C4'	11.55	1.68	1.51
1	B	264	C	C5'-C4'	11.55	1.68	1.51
1	B	983	A	C3'-O3'	11.55	1.59	1.42
1	B	1299	G	C3'-O3'	11.54	1.59	1.42
1	B	1045	C	C3'-O3'	11.54	1.59	1.42
1	B	1522	A	C3'-O3'	11.54	1.59	1.42
1	B	1936	A	C5'-C4'	11.54	1.68	1.51
1	B	984	A	C3'-O3'	11.53	1.59	1.42
1	B	2156	G	O5'-C5'	11.53	1.59	1.42
1	B	1883	U	C3'-O3'	11.52	1.59	1.42
1	B	2161	C	O3'-P	11.52	1.78	1.61
1	B	514	A	C3'-O3'	11.51	1.59	1.42
1	B	764	A	C1'-N9	11.50	1.65	1.48
1	B	1046	A	C5'-C4'	11.50	1.68	1.51
1	B	573	U	C5'-C4'	11.49	1.68	1.51
1	B	673	C	C3'-O3'	11.49	1.59	1.42
1	B	1566	A	C5'-C4'	11.48	1.68	1.51
1	B	91	A	C3'-O3'	11.47	1.59	1.42
1	B	2361	G	C3'-O3'	11.47	1.59	1.42
1	B	193	U	O3'-P	11.47	1.78	1.61
1	B	14	A	C5'-C4'	11.46	1.68	1.51
1	B	222	A	C3'-O3'	11.46	1.59	1.42
1	B	620	G	C5'-C4'	11.45	1.68	1.51
1	B	1235	G	C5'-C4'	11.45	1.68	1.51
1	B	920	A	C3'-O3'	11.45	1.59	1.42
1	B	988	A	O5'-C5'	11.44	1.59	1.42
1	B	1467	U	C1'-N1	11.43	1.65	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	50	U	C5'-C4'	11.42	1.68	1.51
1	B	2474	U	C1'-N1	11.41	1.65	1.48
1	B	2627	G	C3'-O3'	11.41	1.59	1.42
1	B	2503	A	C5'-C4'	11.41	1.68	1.51
1	B	781	A	C5'-C4'	11.39	1.68	1.51
1	B	47	C	C3'-O3'	11.38	1.59	1.42
1	B	1579	A	C5'-C4'	11.38	1.68	1.51
1	B	2253	G	C3'-O3'	11.38	1.59	1.42
1	B	2287	A	C3'-O3'	11.37	1.59	1.42
1	B	2113	U	C3'-O3'	11.36	1.59	1.42
1	B	411	G	C5'-C4'	11.36	1.68	1.51
1	B	529	A	C1'-N9	11.36	1.65	1.48
1	B	1047	G	C5'-C4'	11.36	1.68	1.51
1	B	1254	A	C1'-N9	11.36	1.65	1.48
1	B	2873	A	C5'-C4'	11.35	1.68	1.51
1	B	2422	C	C5'-C4'	11.35	1.68	1.51
1	B	470	A	C5'-C4'	11.35	1.68	1.51
1	B	2335	A	C5'-C4'	11.34	1.68	1.51
1	B	27	G	O5'-C5'	11.33	1.59	1.42
1	B	901	C	C3'-O3'	11.33	1.59	1.42
1	B	2430	A	C3'-O3'	11.32	1.59	1.42
1	B	2726	A	C5'-C4'	11.31	1.68	1.51
1	B	670	A	O5'-C5'	11.29	1.59	1.42
1	B	846	U	O5'-C5'	11.28	1.59	1.42
1	B	961	C	C3'-O3'	11.29	1.59	1.42
1	B	1028	A	O5'-C5'	11.29	1.59	1.42
1	B	1754	A	C1'-N9	11.28	1.64	1.48
1	B	223	A	C1'-N9	11.27	1.64	1.48
1	B	627	A	C5'-C4'	11.27	1.68	1.51
1	B	1802	A	C3'-O3'	11.27	1.59	1.42
1	B	538	A	C3'-O3'	11.26	1.59	1.42
1	B	911	A	C1'-N9	11.25	1.64	1.48
1	B	2740	A	C3'-O3'	11.24	1.59	1.42
1	B	1300	G	C3'-O3'	11.24	1.59	1.42
1	B	565	C	C3'-O3'	11.24	1.59	1.42
1	B	1962	C	C5'-C4'	11.24	1.68	1.51
1	B	1640	A	C3'-O3'	11.24	1.59	1.42
1	B	1467	U	C5'-C4'	11.23	1.68	1.51
1	B	2286	G	C3'-O3'	11.23	1.58	1.42
1	B	233	A	C3'-O3'	11.22	1.58	1.42
1	B	586	A	C5'-C4'	11.22	1.68	1.51
1	B	1675	C	C3'-O3'	11.21	1.58	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2884	U	C3'-O3'	11.21	1.58	1.42
1	B	149	A	C3'-O3'	11.21	1.58	1.42
1	B	1140	C	C3'-O3'	11.20	1.58	1.42
1	B	2012	G	C5'-C4'	11.20	1.68	1.51
1	B	2298	A	C5'-C4'	11.20	1.68	1.51
1	B	847	U	C5'-C4'	11.19	1.68	1.51
1	B	2741	A	C1'-N9	11.18	1.64	1.48
1	B	1029	A	C3'-O3'	11.18	1.58	1.42
1	B	1848	A	C3'-O3'	11.17	1.59	1.43
1	B	502	A	C3'-O3'	11.16	1.58	1.42
1	B	932	U	C5'-C4'	11.15	1.68	1.51
1	B	2058	A	C1'-N9	11.15	1.64	1.48
1	B	2377	A	C3'-O3'	11.15	1.58	1.42
1	B	10	A	C5'-C4'	11.14	1.68	1.51
1	B	2482	A	C1'-N9	11.14	1.64	1.48
1	B	2322	A	O5'-C5'	11.13	1.65	1.43
1	B	278	A	C3'-O3'	11.13	1.58	1.42
1	B	810	U	C3'-O3'	11.13	1.58	1.42
1	B	2844	G	C3'-O3'	11.12	1.59	1.43
1	B	1554	U	C3'-O3'	11.12	1.58	1.42
1	B	1253	A	C5'-C4'	11.11	1.68	1.51
1	B	821	A	C5'-C4'	11.11	1.68	1.51
1	B	2474	U	C5'-C4'	11.11	1.68	1.51
1	B	1251	C	C3'-O3'	11.10	1.58	1.42
1	B	448	U	C5'-C4'	11.10	1.67	1.51
1	B	2427	C	C3'-O3'	11.09	1.58	1.42
1	B	403	U	C5'-C4'	11.08	1.67	1.51
1	B	1311	G	C5'-C4'	11.07	1.67	1.51
1	B	499	U	C5'-C4'	11.06	1.67	1.51
1	B	1040	A	C5'-C4'	11.06	1.67	1.51
1	B	1261	C	O3'-P	11.06	1.77	1.61
1	B	837	C	C3'-O3'	11.06	1.58	1.42
1	B	1714	U	C5'-C4'	11.05	1.67	1.51
1	B	859	G	O5'-C5'	-11.05	1.25	1.42
1	B	1990	C	O5'-C5'	11.04	1.59	1.42
1	B	2608	G	C5'-C4'	11.04	1.67	1.51
1	B	2741	A	C5'-C4'	11.05	1.67	1.51
1	B	328	U	C3'-O3'	11.04	1.58	1.42
1	B	90	U	C5'-C4'	11.03	1.67	1.51
1	B	1610	A	C1'-N9	11.03	1.64	1.48
1	B	2433	A	C5'-C4'	11.03	1.67	1.51
1	B	101	A	C1'-N9	11.01	1.64	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2111	U	C3'-O3'	10.99	1.58	1.42
1	B	257	C	C1'-N1	10.99	1.65	1.48
1	B	1125	G	O5'-C5'	10.98	1.58	1.42
1	B	1469	A	C5'-C4'	10.98	1.67	1.51
1	B	217	A	C1'-N9	10.97	1.64	1.48
1	B	1455	G	C3'-O3'	10.97	1.58	1.42
1	B	1360	G	C3'-O3'	10.97	1.58	1.42
1	B	674	G	O5'-C5'	10.96	1.58	1.42
1	B	1646	C	C3'-O3'	10.96	1.58	1.42
1	B	1348	C	C3'-O3'	10.95	1.58	1.42
1	B	513	A	C3'-O3'	10.94	1.58	1.42
1	B	1134	A	C3'-O3'	10.94	1.58	1.42
1	B	1273	U	C3'-O3'	10.93	1.58	1.42
1	B	2318	G	C5'-C4'	10.93	1.67	1.51
1	B	2574	G	C3'-O3'	10.93	1.58	1.42
1	B	2555	U	C5'-C4'	10.91	1.67	1.51
1	B	1938	A	O5'-C5'	10.91	1.58	1.42
1	B	222	A	C5'-C4'	10.91	1.67	1.51
1	B	1510	G	C3'-O3'	10.91	1.58	1.42
1	B	2109	U	C3'-O3'	10.90	1.58	1.42
1	B	989	G	C3'-O3'	10.90	1.58	1.42
1	B	2210	U	C5'-C4'	10.90	1.67	1.51
1	B	512	G	C3'-O3'	10.89	1.58	1.42
1	B	2732	G	C3'-O3'	10.89	1.58	1.42
1	B	2061	G	C5'-C4'	10.89	1.67	1.51
1	B	2766	A	C3'-O3'	10.89	1.58	1.42
1	B	2451	A	C5'-C4'	10.88	1.67	1.51
1	B	1888	G	O5'-C5'	10.88	1.58	1.42
1	B	182	A	C3'-O3'	10.87	1.58	1.42
1	B	2450	A	C3'-O3'	10.85	1.58	1.42
1	B	646	U	C5'-C4'	10.85	1.67	1.51
1	B	367	G	C3'-O3'	10.84	1.58	1.42
1	B	374	A	C3'-O3'	10.84	1.58	1.42
1	B	1753	G	C5'-C4'	10.84	1.67	1.51
1	B	1044	C	C3'-O3'	10.84	1.58	1.42
1	B	800	A	C3'-O3'	10.83	1.58	1.42
1	B	2562	U	C1'-N1	10.82	1.63	1.47
1	B	1476	U	C5'-C4'	10.82	1.67	1.51
1	B	1944	U	O5'-C5'	10.82	1.64	1.43
1	B	2168	G	C3'-O3'	10.81	1.58	1.42
1	B	2320	U	C5'-C4'	10.81	1.67	1.51
1	B	1674	G	C5'-C4'	10.80	1.67	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2764	A	C3'-O3'	10.80	1.58	1.42
1	B	183	C	C5'-C4'	10.80	1.67	1.51
1	B	1024	G	C5'-C4'	10.80	1.67	1.51
1	B	99	U	O5'-C5'	10.79	1.58	1.42
1	B	2845	U	C3'-O3'	10.79	1.58	1.42
1	B	675	A	C5'-C4'	10.79	1.67	1.51
1	B	1952	A	O5'-C5'	10.78	1.58	1.42
1	B	2483	C	C5'-C4'	10.77	1.67	1.51
1	B	2467	C	C5'-C4'	10.77	1.67	1.51
1	B	1476	U	C3'-O3'	10.76	1.58	1.42
1	B	453	A	C5'-C4'	10.74	1.67	1.51
1	B	608	A	O5'-C5'	10.74	1.58	1.42
1	B	574	A	C5'-C4'	10.73	1.67	1.51
1	B	503	A	O3'-P	10.73	1.77	1.61
1	B	1632	A	C3'-O3'	10.73	1.58	1.42
1	B	1886	U	C5'-C4'	10.73	1.67	1.51
1	B	565	C	C5'-C4'	10.71	1.67	1.51
1	B	2766	A	C1'-N9	10.71	1.64	1.48
1	B	637	A	C5'-C4'	10.71	1.67	1.51
1	B	149	A	C5'-C4'	10.70	1.67	1.51
1	B	512	G	C5'-C4'	10.70	1.67	1.51
1	B	625	G	C3'-O3'	10.69	1.58	1.42
1	B	502	A	C5'-C4'	10.69	1.67	1.51
1	B	1752	C	C5'-C4'	10.69	1.67	1.51
1	B	1134	A	C5'-C4'	10.68	1.67	1.51
1	B	1275	A	C5'-C4'	10.68	1.67	1.51
1	B	761	A	C5'-C4'	10.68	1.67	1.51
1	B	1962	C	C3'-O3'	10.67	1.58	1.42
1	B	1930	G	C3'-O3'	10.66	1.58	1.42
1	B	2780	G	C3'-O3'	10.66	1.58	1.42
1	B	1858	A	C5'-C4'	10.65	1.67	1.51
1	B	1964	G	C3'-O3'	10.65	1.58	1.42
1	B	1236	G	C3'-O3'	10.64	1.58	1.42
1	B	1568	G	O5'-C5'	10.64	1.58	1.42
1	B	2424	C	C5'-C4'	10.64	1.67	1.51
1	B	1543	G	C3'-O3'	10.63	1.58	1.42
1	B	1626	A	C1'-N9	10.63	1.63	1.48
1	B	1586	A	C5'-C4'	10.62	1.67	1.51
1	B	2361	G	C5'-C4'	10.61	1.67	1.51
1	B	761	A	O5'-C5'	10.61	1.58	1.42
1	B	1899	A	C3'-O3'	10.61	1.58	1.42
1	B	2749	A	C5'-C4'	10.60	1.67	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	218	A	C3'-O3'	10.60	1.58	1.42
1	B	735	A	C5'-C4'	10.59	1.67	1.51
1	B	1321	A	C5'-C4'	10.59	1.67	1.51
1	B	1899	A	C5'-C4'	10.58	1.67	1.51
1	B	2626	C	C5'-C4'	10.58	1.67	1.51
1	B	1545	A	C5'-C4'	10.58	1.67	1.51
1	B	2423	U	C5'-C4'	10.57	1.67	1.51
1	B	1321	A	C3'-O3'	10.57	1.57	1.42
1	B	1521	G	C1'-N9	10.57	1.63	1.48
1	B	2245	U	C3'-O3'	10.57	1.57	1.42
1	B	1977	A	C3'-O3'	10.56	1.57	1.42
1	B	2639	A	C5'-C4'	10.56	1.67	1.51
1	B	752	A	C3'-O3'	10.55	1.57	1.42
1	B	748	G	C3'-O3'	10.55	1.57	1.42
1	B	1613	G	C5'-C4'	10.54	1.67	1.51
1	B	1196	C	C3'-O3'	10.53	1.57	1.42
1	B	1543	G	C5'-C4'	10.52	1.67	1.51
1	B	572	A	C1'-N9	10.52	1.63	1.48
1	B	1477	A	C3'-O3'	10.52	1.57	1.42
1	B	98	G	O5'-C5'	10.52	1.58	1.42
1	B	2891	U	C3'-O3'	10.52	1.57	1.42
1	B	1275	A	C3'-O3'	10.52	1.57	1.42
1	B	2723	C	C5'-C4'	10.52	1.67	1.51
1	B	1670	C	C5'-C4'	10.52	1.67	1.51
1	B	216	A	C3'-O3'	10.51	1.57	1.42
1	B	2629	U	C5'-C4'	10.51	1.67	1.51
1	B	2555	U	C1'-N1	10.50	1.63	1.47
1	B	2059	A	C3'-O3'	10.50	1.57	1.42
1	B	705	A	C5'-C4'	10.50	1.67	1.51
1	B	1967	C	C3'-O3'	10.49	1.57	1.42
1	B	451	U	C3'-O3'	10.49	1.57	1.42
1	B	973	A	C3'-O3'	10.49	1.57	1.42
1	B	1497	U	C3'-O3'	10.49	1.57	1.42
1	B	626	A	C3'-O3'	10.48	1.57	1.42
1	B	2411	A	C3'-O3'	10.47	1.57	1.42
1	B	1254	A	C3'-O3'	10.47	1.57	1.42
1	B	2452	C	C5'-C4'	10.47	1.67	1.51
1	B	2724	U	C3'-O3'	10.47	1.57	1.42
1	B	2739	U	C5'-C4'	10.46	1.67	1.51
1	B	2224	G	C3'-O3'	10.46	1.57	1.42
1	B	626	A	C5'-C4'	10.46	1.67	1.51
1	B	1029	A	O5'-C5'	10.46	1.58	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	219	A	O5'-C5'	10.45	1.58	1.42
1	B	99	U	C3'-O3'	10.45	1.57	1.42
1	B	1558	C	C3'-O3'	10.45	1.57	1.42
1	B	2562	U	C5'-C4'	10.43	1.67	1.51
1	B	2597	G	C3'-O3'	10.42	1.57	1.42
1	B	508	A	C5'-C4'	10.41	1.66	1.51
1	B	459	U	C5'-C4'	10.41	1.66	1.51
1	B	2775	G	C3'-O3'	10.41	1.57	1.42
1	B	405	U	C5'-C4'	10.41	1.66	1.51
1	B	2770	G	C3'-O3'	10.41	1.57	1.42
1	B	49	A	C3'-O3'	10.40	1.57	1.42
1	B	1453	A	C3'-O3'	10.40	1.57	1.42
1	B	2428	G	C5'-C4'	10.40	1.66	1.51
1	B	1930	G	C5'-C4'	10.39	1.66	1.51
1	B	90	U	C3'-O3'	10.38	1.57	1.42
1	B	1527	G	C3'-O3'	10.38	1.57	1.42
1	B	1213	A	C5'-C4'	10.37	1.66	1.51
1	B	1886	U	O5'-C5'	10.37	1.58	1.42
1	B	527	C	C3'-O3'	10.37	1.57	1.42
1	B	2333	A	C3'-O3'	10.36	1.57	1.42
1	B	2426	A	C3'-O3'	10.36	1.57	1.42
1	B	182	A	C5'-C4'	10.36	1.66	1.51
1	B	2022	U	C5'-C4'	10.36	1.66	1.51
1	B	1187	G	C5'-C4'	10.35	1.66	1.51
1	B	1929	G	C3'-O3'	10.34	1.57	1.42
1	B	2275	C	C3'-O3'	10.34	1.57	1.42
1	B	505	A	C3'-O3'	10.32	1.57	1.42
1	B	1848	A	O5'-C5'	10.32	1.58	1.42
1	B	2005	A	C3'-O3'	10.32	1.57	1.42
1	B	761	A	C1'-N9	10.31	1.63	1.48
1	B	1646	C	C5'-C4'	10.30	1.66	1.51
1	B	2422	C	C3'-O3'	10.30	1.57	1.42
1	B	2167	U	C5'-C4'	10.30	1.66	1.51
1	B	1142	A	C3'-O3'	10.30	1.57	1.42
1	B	180	G	C5'-C4'	10.29	1.66	1.51
1	B	2770	G	C5'-C4'	10.28	1.66	1.51
1	B	2575	C	C3'-O3'	10.27	1.57	1.42
1	B	1377	G	C5'-C4'	10.26	1.66	1.51
1	B	1510	G	C5'-C4'	10.26	1.66	1.51
1	B	2062	A	C5'-C4'	10.26	1.66	1.51
1	B	2322	A	C1'-N9	10.26	1.68	1.48
1	B	1470	A	C3'-O3'	10.26	1.57	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	510	C	C3'-O3'	10.26	1.57	1.42
1	B	619	G	C3'-O3'	10.25	1.57	1.42
1	B	2720	U	C5'-C4'	10.25	1.66	1.51
1	B	1268	A	C5'-C4'	10.24	1.66	1.51
1	B	197	A	C5'-C4'	10.23	1.66	1.51
1	B	202	U	C5'-C4'	10.23	1.66	1.51
1	B	504	A	C5'-C4'	10.23	1.66	1.51
1	B	1468	U	C3'-O3'	10.22	1.57	1.42
1	B	1978	A	C3'-O3'	10.22	1.57	1.42
1	B	1126	A	O5'-C5'	10.22	1.57	1.42
1	B	503	A	C3'-O3'	10.21	1.58	1.43
1	B	2180	U	C3'-O3'	10.20	1.57	1.42
1	B	240	C	O5'-C5'	10.20	1.57	1.42
1	B	1378	A	C3'-O3'	10.20	1.57	1.42
1	B	1818	U	C5'-C4'	10.20	1.66	1.51
1	B	2749	A	C3'-O3'	10.20	1.57	1.42
1	B	471	A	C5'-C4'	10.20	1.66	1.51
1	B	655	A	C3'-O3'	10.20	1.57	1.42
1	B	1326	U	C1'-N1	10.18	1.63	1.48
1	B	257	C	C5'-C4'	10.17	1.66	1.51
1	B	457	A	O5'-C5'	10.17	1.57	1.42
1	B	412	A	C5'-C4'	10.17	1.66	1.51
1	B	526	A	C1'-N9	10.17	1.63	1.48
1	B	576	U	C3'-O3'	10.17	1.57	1.42
1	B	466	A	C3'-O3'	10.16	1.57	1.42
1	B	12	U	C5'-C4'	10.15	1.66	1.51
1	B	2602	A	C1'-N9	10.15	1.63	1.48
1	B	532	A	C3'-O3'	10.15	1.57	1.42
1	B	1141	U	C3'-O3'	10.15	1.57	1.42
1	B	2041	U	O5'-C5'	10.15	1.57	1.42
1	B	2702	G	C3'-O3'	10.15	1.57	1.42
1	B	1810	A	C3'-O3'	10.14	1.57	1.42
1	B	2287	A	C5'-C4'	10.14	1.66	1.51
1	B	1308	A	C5'-C4'	10.14	1.66	1.51
1	B	2779	U	C5'-C4'	10.14	1.66	1.51
1	B	913	U	C5'-C4'	10.14	1.66	1.51
1	B	1523	U	C5'-C4'	10.12	1.66	1.51
1	B	402	A	C3'-O3'	10.11	1.57	1.42
1	B	119	A	C1'-N9	10.10	1.63	1.48
1	B	2703	C	C5'-C4'	10.10	1.66	1.51
1	B	653	U	O5'-C5'	10.10	1.57	1.42
1	B	916	G	O5'-C5'	10.08	1.57	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2119	A	C3'-O3'	10.08	1.57	1.42
1	B	748	G	C5'-C4'	10.08	1.66	1.51
1	B	400	G	C3'-O3'	10.07	1.57	1.42
1	B	1774	C	C3'-O3'	10.07	1.57	1.42
1	B	483	A	C1'-N9	10.07	1.63	1.48
1	B	48	G	C5'-C4'	10.07	1.66	1.51
1	B	2115	G	C5'-C4'	10.06	1.66	1.51
1	B	806	C	C3'-O3'	10.06	1.57	1.42
1	B	1434	A	C3'-O3'	10.06	1.57	1.42
1	B	699	A	O5'-C5'	10.04	1.57	1.42
1	B	1490	A	C3'-O3'	10.04	1.57	1.42
1	B	1694	C	C3'-O3'	10.04	1.57	1.42
1	B	1186	G	C3'-O3'	10.03	1.57	1.42
1	B	2799	A	C3'-O3'	10.03	1.57	1.42
1	B	1676	A	C3'-O3'	10.02	1.57	1.42
1	B	1655	A	C3'-O3'	9.98	1.57	1.42
1	B	2426	A	C5'-C4'	9.98	1.66	1.51
1	B	1497	U	C5'-C4'	9.97	1.66	1.51
1	B	2765	A	C5'-C4'	9.96	1.66	1.51
1	B	454	A	C3'-O3'	9.94	1.57	1.42
1	B	329	G	C3'-O3'	9.93	1.57	1.42
1	B	784	G	C3'-O3'	9.93	1.57	1.42
1	B	1132	U	C5'-C4'	9.92	1.66	1.51
1	B	1969	A	C5'-C4'	9.92	1.66	1.51
1	B	1048	A	C3'-O3'	9.91	1.57	1.42
1	B	232	G	C3'-O3'	9.91	1.57	1.42
1	B	569	U	C5'-C4'	9.90	1.66	1.51
1	B	1814	G	C5'-C4'	9.90	1.66	1.51
1	B	98	G	C1'-N9	9.90	1.62	1.48
1	B	2469	A	C1'-N9	9.90	1.62	1.48
1	B	673	C	C5'-C4'	9.90	1.66	1.51
1	B	2894	G	C3'-O3'	9.90	1.57	1.42
1	B	2210	U	C3'-O3'	9.90	1.56	1.42
1	B	2613	U	C5'-C4'	9.90	1.66	1.51
1	B	820	A	C3'-O3'	9.90	1.56	1.42
1	B	704	G	C5'-C4'	9.89	1.66	1.51
1	B	2503	A	C3'-O3'	9.89	1.56	1.42
1	B	2117	A	C3'-O3'	9.88	1.56	1.42
1	B	983	A	C5'-C4'	9.87	1.66	1.51
1	B	2683	C	C3'-O3'	9.85	1.56	1.42
1	B	1964	G	C5'-C4'	9.85	1.66	1.51
1	B	498	G	O5'-C5'	9.84	1.57	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1641	A	C5'-C4'	9.84	1.66	1.51
1	B	2822	G	C5'-C4'	9.84	1.66	1.51
1	B	1235	G	C3'-O3'	9.83	1.56	1.42
1	B	1537	G	C3'-O3'	9.83	1.56	1.42
1	B	1978	A	C5'-C4'	9.83	1.66	1.51
1	B	2553	G	C5'-C4'	9.83	1.66	1.51
1	B	529	A	C5'-C4'	9.83	1.66	1.51
1	B	1967	C	C5'-C4'	9.83	1.66	1.51
1	B	279	A	C3'-O3'	9.82	1.56	1.42
1	B	1966	A	C5'-C4'	9.82	1.66	1.51
1	B	2738	A	C5'-C4'	9.82	1.66	1.51
1	B	1309	G	C5'-C4'	9.82	1.66	1.51
1	B	537	G	C3'-O3'	9.80	1.56	1.42
1	B	877	A	C5'-C4'	9.80	1.66	1.51
1	B	525	U	O5'-C5'	9.80	1.57	1.42
1	B	1189	A	C3'-O3'	9.79	1.56	1.42
1	B	2145	C	C3'-O3'	9.79	1.56	1.42
1	B	2425	A	O5'-C5'	9.79	1.57	1.42
1	B	2405	G	O5'-C5'	9.79	1.57	1.42
1	B	431	U	C1'-N1	9.78	1.63	1.48
1	B	1418	G	C5'-C4'	9.77	1.66	1.51
1	B	1111	A	C5'-C4'	9.77	1.66	1.51
1	B	1322	A	C3'-O3'	9.77	1.56	1.42
1	B	1606	C	C3'-O3'	9.77	1.56	1.42
1	B	2283	C	C3'-O3'	9.77	1.56	1.42
1	B	1753	G	C3'-O3'	9.76	1.56	1.42
1	B	974	G	C3'-O3'	9.76	1.56	1.42
1	B	2766	A	C5'-C4'	9.76	1.65	1.51
1	B	1426	G	C5'-C4'	9.76	1.65	1.51
1	B	1884	G	C1'-N9	9.75	1.62	1.48
1	B	2429	G	C3'-O3'	9.75	1.56	1.42
1	B	1607	C	C3'-O3'	9.75	1.56	1.42
1	B	2135	A	C5'-C4'	9.75	1.65	1.51
1	B	1721	G	C3'-O3'	9.74	1.56	1.42
1	B	1012	U	C5'-C4'	9.74	1.65	1.51
1	B	1211	C	C5'-C4'	9.74	1.65	1.51
1	B	482	A	C5'-C4'	9.74	1.65	1.51
1	B	603	A	C3'-O3'	9.71	1.56	1.42
1	B	2014	A	C5'-C4'	9.71	1.65	1.51
1	B	139	U	C5'-C4'	9.70	1.65	1.51
1	B	276	U	O5'-C5'	9.70	1.57	1.42
1	B	1527	G	C5'-C4'	9.70	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2125	G	C5'-C4'	9.70	1.65	1.51
1	B	1572	A	C5'-C4'	9.70	1.65	1.51
1	B	2406	A	O5'-C5'	9.70	1.56	1.42
1	B	2472	G	C3'-O3'	9.70	1.56	1.42
1	B	1020	A	C3'-O3'	9.68	1.56	1.42
1	B	1024	G	C3'-O3'	9.68	1.56	1.42
1	B	2041	U	C3'-O3'	9.68	1.56	1.42
1	B	465	G	C5'-C4'	9.68	1.65	1.51
1	B	2171	A	C3'-O3'	9.67	1.56	1.42
1	B	733	G	C3'-O3'	9.66	1.56	1.42
1	B	878	A	C5'-C4'	9.66	1.65	1.51
1	B	1248	G	C5'-C4'	9.65	1.65	1.51
1	B	403	U	C3'-O3'	9.64	1.56	1.42
1	B	404	A	C5'-C4'	9.64	1.65	1.51
1	B	179	C	C3'-O3'	9.64	1.56	1.42
1	B	1737	G	C3'-O3'	9.63	1.56	1.42
1	B	1875	G	C5'-C4'	9.63	1.65	1.51
1	B	190	A	C5'-C4'	9.63	1.65	1.51
1	B	233	A	C5'-C4'	9.61	1.65	1.51
1	B	810	U	C5'-C4'	9.61	1.65	1.51
1	B	1876	A	C3'-O3'	9.61	1.56	1.42
1	B	684	G	O5'-C5'	9.61	1.56	1.42
1	B	1128	G	C5'-C4'	9.60	1.65	1.51
1	B	2147	A	C3'-O3'	9.60	1.56	1.42
1	B	1452	G	O5'-C5'	9.60	1.56	1.42
1	B	2753	A	C5'-C4'	9.60	1.65	1.51
1	B	270	A	C5'-C4'	9.59	1.65	1.51
1	B	1133	A	C3'-O3'	9.59	1.56	1.42
1	B	464	U	C3'-O3'	9.59	1.56	1.42
1	B	1274	A	C5'-C4'	9.59	1.65	1.51
1	B	2086	U	C5'-C4'	9.59	1.65	1.51
1	B	912	C	C5'-C4'	9.58	1.65	1.51
1	B	263	G	C5'-C4'	9.58	1.65	1.51
1	B	75	G	C1'-N9	9.58	1.67	1.48
1	B	2493	U	C5'-C4'	9.57	1.65	1.51
1	B	332	A	C5'-C4'	9.56	1.65	1.51
1	B	1784	A	C3'-O3'	9.56	1.56	1.42
1	B	587	C	O5'-C5'	9.55	1.56	1.42
1	B	513	A	C5'-C4'	9.55	1.65	1.51
1	B	1670	C	C3'-O3'	9.54	1.56	1.42
1	B	1044	C	C5'-C4'	9.54	1.65	1.51
1	B	792	A	C5'-C4'	9.54	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	974	G	C5'-C4'	9.53	1.65	1.51
1	B	1516	G	C5'-C4'	9.53	1.65	1.51
1	B	821	A	C3'-O3'	9.53	1.56	1.42
1	B	1655	A	C5'-C4'	9.53	1.65	1.51
1	B	479	A	C3'-O3'	9.53	1.56	1.42
1	B	1926	U	C5'-C4'	9.52	1.65	1.51
1	B	1689	A	C3'-O3'	9.52	1.56	1.42
1	B	1737	G	C5'-C4'	9.52	1.65	1.51
1	B	1226	A	C3'-O3'	9.51	1.56	1.42
1	B	1299	G	C5'-C4'	9.51	1.65	1.51
1	B	2172	U	C5'-C4'	9.51	1.65	1.51
1	B	2319	G	C3'-O3'	9.50	1.56	1.42
1	B	2682	A	C3'-O3'	9.50	1.56	1.42
1	B	1214	A	C5'-C4'	9.50	1.65	1.51
1	B	328	U	C5'-C4'	9.49	1.65	1.51
1	B	472	A	C3'-O3'	9.49	1.56	1.42
1	B	2573	C	C3'-O3'	9.49	1.56	1.42
1	B	2110	G	C3'-O3'	9.49	1.56	1.42
1	B	446	G	C3'-O3'	9.49	1.56	1.42
1	B	1647	U	C5'-C4'	9.49	1.65	1.51
1	B	2598	A	C3'-O3'	9.49	1.56	1.42
1	B	1456	G	C3'-O3'	9.48	1.56	1.42
1	B	2213	U	C3'-O3'	9.48	1.56	1.42
1	B	492	A	C3'-O3'	9.48	1.56	1.42
1	B	2799	A	C5'-C4'	9.48	1.65	1.51
1	B	2644	G	C3'-O3'	9.47	1.56	1.42
1	B	653	U	C3'-O3'	9.47	1.56	1.42
1	B	1419	A	C5'-C4'	9.46	1.65	1.51
1	B	63	A	C3'-O3'	9.46	1.56	1.42
1	B	256	A	C5'-C4'	9.46	1.65	1.51
1	B	511	U	C1'-N1	9.46	1.62	1.48
1	B	1672	A	C3'-O3'	9.46	1.56	1.42
1	B	2165	C	C5'-C4'	9.46	1.65	1.51
1	B	2365	G	C3'-O3'	9.46	1.56	1.42
1	B	2904	U	C5'-C4'	9.46	1.65	1.51
1	B	1525	A	C3'-O3'	9.45	1.56	1.42
1	B	1955	U	C5'-C4'	9.45	1.65	1.51
1	B	1652	A	C5'-C4'	9.45	1.65	1.51
1	B	432	A	O5'-C5'	9.44	1.56	1.42
1	B	83	A	C5'-C4'	9.43	1.65	1.51
1	B	1250	G	C5'-C4'	9.43	1.65	1.51
1	B	1022	G	C3'-O3'	9.43	1.56	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2501	C	C5'-C4'	9.43	1.65	1.51
1	B	931	U	C5'-C4'	9.42	1.65	1.51
1	B	1937	A	C5'-C4'	9.42	1.65	1.51
1	B	2733	A	C5'-C4'	9.42	1.65	1.51
1	B	861	A	O5'-C5'	9.42	1.56	1.42
1	B	2058	A	C5'-C4'	9.42	1.65	1.51
1	B	2609	U	C3'-O3'	9.41	1.56	1.42
1	B	1713	A	C3'-O3'	9.41	1.56	1.42
1	B	428	A	O5'-C5'	9.41	1.56	1.42
1	B	1817	G	C5'-C4'	9.40	1.65	1.51
1	B	177	G	C5'-C4'	9.40	1.65	1.51
1	B	1977	A	C5'-C4'	9.40	1.65	1.51
1	B	2145	C	C5'-C4'	9.40	1.65	1.51
1	B	1680	U	O5'-C5'	9.40	1.56	1.42
1	B	2563	U	C3'-O3'	9.39	1.56	1.42
1	B	49	A	C1'-N9	9.38	1.62	1.48
1	B	2199	A	C3'-O3'	9.38	1.56	1.42
1	B	556	A	C3'-O3'	9.37	1.56	1.42
1	B	1460	U	C5'-C4'	9.37	1.65	1.51
1	B	2388	A	C3'-O3'	9.37	1.56	1.42
1	B	1559	U	C5'-C4'	9.37	1.65	1.51
1	B	845	A	C1'-N9	9.37	1.61	1.48
1	B	2586	U	C3'-O3'	9.37	1.56	1.42
1	B	1524	G	C5'-C4'	9.36	1.65	1.51
1	B	344	A	C5'-C4'	9.36	1.65	1.51
1	B	1963	U	C3'-O3'	9.36	1.56	1.42
1	B	1039	A	C3'-O3'	9.35	1.56	1.42
1	B	2109	U	C5'-C4'	9.35	1.65	1.51
1	B	2869	G	C5'-C4'	9.35	1.65	1.51
1	B	2587	A	C5'-C4'	9.34	1.65	1.51
1	B	603	A	C5'-C4'	9.34	1.65	1.51
1	B	2392	A	C5'-C4'	9.33	1.65	1.51
1	B	801	G	C5'-C4'	9.33	1.65	1.51
1	B	2346	A	C5'-C4'	9.33	1.65	1.51
1	B	2450	A	O5'-C5'	9.33	1.56	1.42
1	B	254	G	C3'-O3'	9.33	1.56	1.42
1	B	1109	C	C5'-C4'	9.33	1.65	1.51
1	B	625	G	C5'-C4'	9.32	1.65	1.51
1	B	1640	A	C5'-C4'	9.32	1.65	1.51
1	B	1012	U	C3'-O3'	9.31	1.56	1.42
1	B	2111	U	C5'-C4'	9.31	1.65	1.51
1	B	1968	G	C5'-C4'	9.31	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2883	A	C5'-C4'	9.29	1.65	1.51
1	B	507	A	C3'-O3'	9.28	1.56	1.42
1	B	1889	A	C3'-O3'	9.28	1.56	1.42
1	B	1214	A	C3'-O3'	9.28	1.56	1.42
1	B	242	G	C5'-C4'	9.27	1.65	1.51
1	B	2119	A	C5'-C4'	9.27	1.65	1.51
1	B	1654	A	C3'-O3'	9.27	1.56	1.42
1	B	1129	A	C3'-O3'	9.27	1.56	1.42
1	B	2126	A	C5'-C4'	9.26	1.65	1.51
1	B	1273	U	C5'-C4'	9.26	1.65	1.51
1	B	1341	G	C5'-C4'	9.26	1.65	1.51
1	B	914	G	C5'-C4'	9.26	1.65	1.51
1	B	1933	G	O5'-C5'	9.25	1.56	1.42
1	B	2429	G	C5'-C4'	9.25	1.65	1.51
1	B	1585	C	C5'-C4'	9.24	1.65	1.51
1	B	1678	A	C1'-N9	9.24	1.61	1.48
1	B	1941	C	O5'-C5'	9.24	1.56	1.42
1	B	101	A	C5'-C4'	9.24	1.65	1.51
1	B	1838	C	C3'-O3'	9.24	1.56	1.42
1	B	374	A	C5'-C4'	9.23	1.65	1.51
1	B	2013	A	C1'-N9	9.23	1.60	1.47
1	B	1187	G	C3'-O3'	9.23	1.55	1.42
1	B	2393	U	C3'-O3'	9.23	1.55	1.42
1	B	1340	U	C3'-O3'	9.22	1.55	1.42
1	B	2702	G	C5'-C4'	9.22	1.65	1.51
1	B	1876	A	C5'-C4'	9.21	1.65	1.51
1	B	2884	U	C5'-C4'	9.21	1.65	1.51
1	B	1886	U	C3'-O3'	9.21	1.55	1.42
1	B	1885	A	C5'-C4'	9.21	1.65	1.51
1	B	1378	A	C5'-C4'	9.21	1.65	1.51
1	B	2265	U	C5'-C4'	9.21	1.65	1.51
1	B	2638	G	C5'-C4'	9.20	1.65	1.51
1	B	2438	U	O3'-P	9.20	1.75	1.61
1	B	980	A	C5'-C4'	9.20	1.65	1.51
1	B	1365	A	C5'-C4'	9.20	1.65	1.51
1	B	1965	C	C5'-C4'	9.20	1.65	1.51
1	B	1377	G	C3'-O3'	9.20	1.55	1.42
1	B	1416	G	C3'-O3'	9.19	1.55	1.42
1	B	1674	G	C3'-O3'	9.19	1.55	1.42
1	B	1613	G	C3'-O3'	9.19	1.55	1.42
1	B	2334	U	C5'-C4'	9.19	1.65	1.51
1	B	300	A	O5'-C5'	9.18	1.56	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2738	A	C3'-O3'	9.18	1.55	1.42
1	B	1327	A	C1'-N9	9.18	1.61	1.48
1	B	2685	G	O5'-C5'	9.18	1.56	1.42
1	B	866	A	C3'-O3'	9.17	1.55	1.42
1	B	2598	A	C5'-C4'	9.17	1.65	1.51
1	B	2319	G	C5'-C4'	9.17	1.65	1.51
1	B	478	A	O5'-C5'	9.16	1.56	1.42
1	B	530	G	C3'-O3'	9.15	1.55	1.42
1	B	1834	U	C5'-C4'	9.14	1.65	1.51
1	B	2873	A	C3'-O3'	9.14	1.55	1.42
1	B	783	A	C5'-C4'	9.14	1.65	1.51
1	B	1782	U	C5'-C4'	9.13	1.65	1.51
1	B	2164	C	C3'-O3'	9.13	1.55	1.42
1	B	1810	A	C5'-C4'	9.12	1.65	1.51
1	B	1115	G	C5'-C4'	9.12	1.65	1.51
1	B	1602	U	C3'-O3'	9.12	1.55	1.42
1	B	1935	G	C5'-C4'	9.12	1.65	1.51
1	B	2118	U	C5'-C4'	9.12	1.65	1.51
1	B	2062	A	O5'-C5'	9.11	1.56	1.42
1	B	1890	A	C3'-O3'	9.11	1.55	1.42
1	B	2879	A	C3'-O3'	9.11	1.55	1.42
1	B	2903	U	C3'-O3'	9.11	1.55	1.42
1	B	570	G	C5'-C4'	9.10	1.65	1.51
1	B	2626	C	C3'-O3'	9.10	1.56	1.43
1	B	338	G	C3'-O3'	9.10	1.55	1.42
1	B	802	A	C5'-C4'	9.10	1.65	1.51
1	B	973	A	O5'-C5'	9.09	1.56	1.42
1	B	1186	G	C5'-C4'	9.09	1.64	1.51
1	B	2134	A	C3'-O3'	9.09	1.55	1.42
1	B	2675	A	C3'-O3'	9.08	1.55	1.42
1	B	585	G	C5'-C4'	9.08	1.64	1.51
1	B	100	U	C5'-C4'	9.07	1.64	1.51
1	B	2389	G	C3'-O3'	9.07	1.55	1.42
1	B	2790	U	C3'-O3'	9.07	1.55	1.42
1	B	33	C	C5'-C4'	9.07	1.64	1.51
1	B	1353	A	C5'-C4'	9.07	1.64	1.51
1	B	1981	A	C3'-O3'	9.07	1.55	1.42
1	B	990	A	C5'-C4'	9.07	1.64	1.51
1	B	1133	A	O5'-C5'	9.06	1.56	1.42
1	B	264	C	O5'-C5'	9.06	1.56	1.42
1	B	789	A	C5'-C4'	9.06	1.64	1.51
1	B	1875	G	C3'-O3'	9.06	1.55	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1213	A	C3'-O3'	9.06	1.55	1.42
1	B	1632	A	C5'-C4'	9.05	1.64	1.51
1	B	1116	G	C5'-C4'	9.05	1.64	1.51
1	B	2051	A	C3'-O3'	9.05	1.55	1.42
1	B	2733	A	C3'-O3'	9.05	1.55	1.42
1	B	945	A	C5'-C4'	9.04	1.64	1.51
1	B	214	G	C5'-C4'	9.04	1.64	1.51
1	B	1459	G	C3'-O3'	9.04	1.55	1.42
1	B	1111	A	C3'-O3'	9.03	1.55	1.42
1	B	2133	G	C5'-C4'	9.03	1.64	1.51
1	B	2572	A	C5'-C4'	9.03	1.64	1.51
1	B	2894	G	C5'-C4'	9.03	1.64	1.51
1	B	1610	A	O5'-C5'	9.03	1.55	1.42
1	B	1926	U	C3'-O3'	9.03	1.55	1.42
1	B	1032	A	C5'-C4'	9.03	1.64	1.51
1	B	2162	G	C5'-C4'	9.03	1.64	1.51
1	B	2283	C	C5'-C4'	9.03	1.64	1.51
1	B	2430	A	C5'-C4'	9.03	1.64	1.51
1	B	455	C	C5'-C4'	9.03	1.64	1.51
1	B	910	A	C5'-C4'	9.02	1.64	1.51
1	B	1814	G	C3'-O3'	9.02	1.55	1.42
1	B	1647	U	C3'-O3'	9.02	1.55	1.42
1	B	1553	A	C5'-C4'	9.01	1.64	1.51
1	B	2320	U	C3'-O3'	9.01	1.55	1.42
1	B	118	A	O5'-C5'	9.01	1.55	1.42
1	B	1383	A	C5'-C4'	9.01	1.64	1.51
1	B	2203	U	C3'-O3'	9.01	1.55	1.42
1	B	2892	G	C3'-O3'	9.01	1.55	1.42
1	B	1523	U	C3'-O3'	9.01	1.55	1.42
1	B	140	C	C5'-C4'	9.01	1.64	1.51
1	B	636	G	C5'-C4'	9.01	1.64	1.51
1	B	2868	A	C3'-O3'	9.01	1.55	1.42
1	B	564	C	C5'-C4'	9.00	1.64	1.51
1	B	654	A	C5'-C4'	9.00	1.64	1.51
1	B	2501	C	C3'-O3'	9.00	1.55	1.42
1	B	450	G	C3'-O3'	9.00	1.55	1.42
1	B	1397	U	C3'-O3'	9.00	1.55	1.42
1	B	2807	U	C3'-O3'	9.00	1.55	1.42
1	B	1942	C	O5'-C5'	8.99	1.55	1.42
1	B	1754	A	C5'-C4'	8.99	1.64	1.51
1	B	279	A	C5'-C4'	8.99	1.64	1.51
1	B	1756	G	C3'-O3'	8.99	1.55	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1871	A	C5'-C4'	8.99	1.64	1.51
1	B	361	G	C3'-O3'	8.99	1.55	1.42
1	B	2318	G	C3'-O3'	8.99	1.55	1.42
1	B	620	G	C3'-O3'	8.98	1.55	1.42
1	B	111	A	C3'-O3'	8.98	1.55	1.42
1	B	1354	A	C5'-C4'	8.98	1.64	1.51
1	B	1757	A	C5'-C4'	8.98	1.64	1.51
1	B	728	G	C3'-O3'	8.98	1.56	1.43
1	B	1528	A	C5'-C4'	8.98	1.64	1.51
1	B	2392	A	C3'-O3'	8.98	1.55	1.42
1	B	630	G	C5'-C4'	8.98	1.64	1.51
1	B	500	G	C5'-C4'	8.98	1.64	1.51
1	B	2185	U	C5'-C4'	8.98	1.64	1.51
1	B	505	A	C5'-C4'	8.98	1.64	1.51
1	B	2055	C	O5'-C5'	8.98	1.55	1.42
1	B	1271	G	C5'-C4'	8.97	1.64	1.51
1	B	960	A	C3'-O3'	8.97	1.55	1.42
1	B	2778	A	C3'-O3'	8.97	1.55	1.42
1	B	2834	G	C5'-C4'	8.97	1.64	1.51
1	B	503	A	C1'-N9	8.97	1.60	1.47
1	B	631	A	C3'-O3'	8.97	1.55	1.42
1	B	752	A	C5'-C4'	8.97	1.64	1.51
1	B	1020	A	C5'-C4'	8.97	1.64	1.51
1	B	990	A	C3'-O3'	8.96	1.55	1.42
1	B	2334	U	C3'-O3'	8.96	1.55	1.42
1	B	2345	G	C5'-C4'	8.96	1.64	1.51
1	B	1236	G	C5'-C4'	8.96	1.64	1.51
1	B	1433	A	C3'-O3'	8.96	1.55	1.42
1	B	124	G	C5'-C4'	8.95	1.64	1.51
1	B	1300	G	C5'-C4'	8.95	1.64	1.51
1	B	220	G	C3'-O3'	8.95	1.55	1.42
1	B	447	A	C5'-C4'	8.95	1.64	1.51
1	B	2163	A	C3'-O3'	8.95	1.55	1.42
1	B	2432	A	C5'-C4'	8.95	1.64	1.51
1	B	455	C	C3'-O3'	8.94	1.55	1.42
1	B	1754	A	C3'-O3'	8.94	1.55	1.42
1	B	2741	A	C3'-O3'	8.93	1.55	1.42
1	B	1241	A	O5'-C5'	8.93	1.55	1.42
1	B	2575	C	C5'-C4'	8.93	1.64	1.51
1	B	911	A	C3'-O3'	8.92	1.55	1.42
1	B	791	C	C3'-O3'	8.92	1.55	1.42
1	B	1249	U	C5'-C4'	8.92	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2269	G	C5'-C4'	8.92	1.64	1.51
1	B	177	G	C3'-O3'	8.91	1.55	1.42
1	B	790	U	C5'-C4'	8.91	1.64	1.51
1	B	2211	A	C3'-O3'	8.91	1.55	1.42
1	B	370	G	C5'-C4'	8.90	1.64	1.51
1	B	2104	C	C5'-C4'	8.90	1.64	1.51
1	B	1009	A	C5'-C4'	8.90	1.64	1.51
1	B	1272	A	C3'-O3'	8.89	1.55	1.42
1	B	800	A	C5'-C4'	8.89	1.64	1.51
1	B	1391	U	C5'-C4'	8.89	1.64	1.51
1	B	2613	U	C3'-O3'	8.89	1.55	1.42
1	B	1700	A	C5'-C4'	8.89	1.64	1.51
1	B	2224	G	C5'-C4'	8.89	1.64	1.51
1	B	2432	A	C3'-O3'	8.89	1.55	1.42
1	B	1390	U	C5'-C4'	8.89	1.64	1.51
1	B	818	G	C3'-O3'	8.88	1.55	1.42
1	B	1475	G	C5'-C4'	8.88	1.64	1.51
1	B	878	A	C3'-O3'	8.88	1.55	1.42
1	B	1395	A	C3'-O3'	8.88	1.55	1.42
1	B	1654	A	C5'-C4'	8.88	1.64	1.51
1	B	2377	A	C5'-C4'	8.88	1.64	1.51
1	B	2018	G	C5'-C4'	8.87	1.64	1.51
1	B	1927	A	C5'-C4'	8.87	1.68	1.51
1	B	2747	G	C5'-C4'	8.87	1.64	1.51
1	B	555	G	C5'-C4'	8.87	1.64	1.51
1	B	783	A	C3'-O3'	8.86	1.55	1.42
1	B	2886	A	C3'-O3'	8.86	1.55	1.42
1	B	1417	C	C5'-C4'	8.85	1.64	1.51
1	B	1173	U	C5'-C4'	8.85	1.64	1.51
1	B	1565	C	C5'-C4'	8.85	1.64	1.51
1	B	2552	U	C5'-C4'	8.85	1.64	1.51
1	B	1631	G	C3'-O3'	8.84	1.55	1.42
1	B	362	A	C5'-C4'	8.84	1.64	1.51
1	B	506	G	C5'-C4'	8.84	1.64	1.51
1	B	1000	A	C5'-C4'	8.83	1.64	1.51
1	B	1457	U	C5'-C4'	8.83	1.64	1.51
1	B	1851	U	C5'-C4'	8.83	1.64	1.51
1	B	460	A	C1'-N9	8.82	1.61	1.48
1	B	2211	A	C5'-C4'	8.82	1.64	1.51
1	B	367	G	C5'-C4'	8.81	1.64	1.51
1	B	739	A	C5'-C4'	8.81	1.64	1.51
1	B	1807	G	C5'-C4'	8.81	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2554	U	C3'-O3'	8.81	1.55	1.42
1	B	2126	A	C3'-O3'	8.81	1.55	1.42
1	B	489	G	C3'-O3'	8.80	1.55	1.42
1	B	942	G	O5'-C5'	8.80	1.55	1.42
1	B	2500	U	C3'-O3'	8.80	1.55	1.42
1	B	490	C	C3'-O3'	8.80	1.55	1.42
1	B	508	A	C3'-O3'	8.80	1.55	1.42
1	B	2867	G	C3'-O3'	8.80	1.55	1.42
1	B	627	A	C3'-O3'	8.79	1.55	1.42
1	B	1605	C	C3'-O3'	8.79	1.55	1.42
1	B	806	C	C5'-C4'	8.79	1.64	1.51
1	B	733	G	C5'-C4'	8.79	1.64	1.51
1	B	2076	U	C5'-C4'	8.79	1.64	1.51
1	B	566	U	C3'-O3'	8.79	1.55	1.42
1	B	2798	U	C3'-O3'	8.79	1.55	1.42
1	B	2428	G	C3'-O3'	8.78	1.55	1.42
1	B	1328	A	O5'-C5'	8.78	1.55	1.42
1	B	322	A	O5'-C5'	8.78	1.55	1.42
1	B	1928	A	O5'-C5'	8.77	1.55	1.42
1	B	2850	A	C5'-C4'	8.77	1.64	1.51
1	B	1364	G	C5'-C4'	8.77	1.64	1.51
1	B	1745	A	C3'-O3'	8.77	1.55	1.42
1	B	960	A	C5'-C4'	8.77	1.64	1.51
1	B	2130	U	C5'-C4'	8.76	1.64	1.51
1	B	1139	G	C3'-O3'	8.76	1.55	1.42
1	B	338	G	C5'-C4'	8.76	1.64	1.51
1	B	196	A	C3'-O3'	8.74	1.55	1.42
1	B	2681	C	C5'-C4'	8.74	1.64	1.51
1	B	1677	A	C5'-C4'	8.74	1.64	1.51
1	B	1272	A	O5'-C5'	8.73	1.55	1.42
1	B	1139	G	C5'-C4'	8.73	1.64	1.51
1	B	1379	U	C5'-C4'	8.72	1.64	1.51
1	B	2327	A	C5'-C4'	8.72	1.64	1.51
1	B	1738	G	C5'-C4'	8.72	1.64	1.51
1	B	1816	C	C5'-C4'	8.71	1.64	1.51
1	B	2333	A	C5'-C4'	8.71	1.64	1.51
1	B	528	A	C5'-C4'	8.71	1.64	1.51
1	B	1110	G	C5'-C4'	8.71	1.64	1.51
1	B	2110	G	C5'-C4'	8.71	1.64	1.51
1	B	914	G	C3'-O3'	8.71	1.55	1.42
1	B	1607	C	C5'-C4'	8.70	1.64	1.51
1	B	790	U	C3'-O3'	8.70	1.55	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1819	A	C5'-C4'	8.70	1.64	1.51
1	B	2015	A	C5'-C4'	8.70	1.64	1.51
1	B	1534	U	C3'-O3'	8.70	1.55	1.42
1	B	503	A	C5'-C4'	8.70	1.64	1.51
1	B	2125	G	C3'-O3'	8.69	1.55	1.42
1	B	944	C	C3'-O3'	8.69	1.55	1.42
1	B	927	A	O5'-C5'	8.69	1.55	1.42
1	B	2147	A	C5'-C4'	8.69	1.64	1.51
1	B	1393	A	C5'-C4'	8.68	1.64	1.51
1	B	1605	C	C5'-C4'	8.68	1.64	1.51
1	B	1691	C	C3'-O3'	8.68	1.55	1.42
1	B	1700	A	C3'-O3'	8.68	1.55	1.42
1	B	1223	G	C5'-C4'	8.67	1.64	1.51
1	B	1040	A	C3'-O3'	8.67	1.55	1.42
1	B	2371	G	C3'-O3'	8.67	1.55	1.42
1	B	1174	U	C5'-C4'	8.67	1.64	1.51
1	B	2305	U	C3'-O3'	8.67	1.55	1.42
1	B	346	A	C3'-O3'	8.66	1.55	1.42
1	B	995	C	C5'-C4'	8.66	1.64	1.51
1	B	241	A	C3'-O3'	8.66	1.55	1.42
1	B	2857	G	C3'-O3'	8.66	1.55	1.42
1	B	602	A	C3'-O3'	8.66	1.55	1.42
1	B	1553	A	C3'-O3'	8.66	1.55	1.42
1	B	1534	U	C5'-C4'	8.66	1.64	1.51
1	B	459	U	C3'-O3'	8.66	1.55	1.42
1	B	1614	A	C5'-C4'	8.65	1.64	1.51
1	B	2144	G	C5'-C4'	8.65	1.64	1.51
1	B	2233	U	C5'-C4'	8.65	1.64	1.51
1	B	2763	G	C5'-C4'	8.65	1.64	1.51
1	B	280	U	C5'-C4'	8.65	1.64	1.51
1	B	331	C	O5'-C5'	8.65	1.55	1.42
1	B	372	G	C5'-C4'	8.65	1.64	1.51
1	B	1870	C	C3'-O3'	8.65	1.55	1.42
1	B	2883	A	C3'-O3'	8.65	1.55	1.42
1	B	1252	G	C3'-O3'	8.65	1.55	1.42
1	B	1694	C	C5'-C4'	8.65	1.64	1.51
1	B	2360	G	C5'-C4'	8.65	1.64	1.51
1	B	1001	A	C3'-O3'	8.64	1.55	1.42
1	B	293	U	O3'-P	8.64	1.74	1.61
1	B	1687	G	C5'-C4'	8.64	1.64	1.51
1	B	784	G	C5'-C4'	8.63	1.64	1.51
1	B	1174	U	C3'-O3'	8.63	1.55	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1310	G	C3'-O3'	8.63	1.55	1.42
1	B	1360	G	C5'-C4'	8.63	1.64	1.51
1	B	1367	A	C3'-O3'	8.63	1.55	1.42
1	B	631	A	C5'-C4'	8.63	1.64	1.51
1	B	178	G	C3'-O3'	8.63	1.55	1.42
1	B	1371	G	C5'-C4'	8.62	1.64	1.51
1	B	1713	A	C5'-C4'	8.62	1.64	1.51
1	B	2226	C	C3'-O3'	8.62	1.55	1.42
1	B	2765	A	C3'-O3'	8.62	1.55	1.42
1	B	2879	A	C5'-C4'	8.61	1.64	1.51
1	B	526	A	C5'-C4'	8.61	1.64	1.51
1	B	1439	A	C5'-C4'	8.60	1.64	1.51
1	B	1668	A	O5'-C5'	8.60	1.55	1.42
1	B	2352	A	C5'-C4'	8.60	1.64	1.51
1	B	308	G	C3'-O3'	8.60	1.55	1.42
1	B	1252	G	C5'-C4'	8.60	1.64	1.51
1	B	2358	A	C5'-C4'	8.60	1.64	1.51
1	B	2371	G	C5'-C4'	8.60	1.64	1.51
1	B	1943	U	C1'-N1	8.60	1.61	1.48
1	B	1981	A	C5'-C4'	8.60	1.64	1.51
1	B	2427	C	C5'-C4'	8.60	1.64	1.51
1	B	2887	A	C5'-C4'	8.60	1.64	1.51
1	B	785	G	C5'-C4'	8.59	1.64	1.51
1	B	1554	U	C5'-C4'	8.59	1.64	1.51
1	B	1852	U	C5'-C4'	8.59	1.64	1.51
1	B	2468	A	O5'-C5'	8.59	1.55	1.42
1	B	576	U	C5'-C4'	8.59	1.64	1.51
1	B	2476	A	C3'-O3'	8.59	1.55	1.42
1	B	2472	G	C5'-C4'	8.59	1.64	1.51
1	B	2740	A	C5'-C4'	8.59	1.64	1.51
1	B	2847	U	C5'-C4'	8.59	1.64	1.51
1	B	2846	G	C3'-O3'	8.58	1.55	1.42
1	B	216	A	C5'-C4'	8.58	1.64	1.51
1	B	1391	U	C3'-O3'	8.58	1.55	1.42
1	B	62	U	C3'-O3'	8.58	1.55	1.42
1	B	1352	U	C3'-O3'	8.58	1.55	1.42
1	B	1477	A	C5'-C4'	8.58	1.64	1.51
1	B	1205	A	C3'-O3'	8.57	1.55	1.42
1	B	2822	G	C3'-O3'	8.57	1.55	1.42
1	B	2132	U	C3'-O3'	8.56	1.54	1.42
1	B	491	G	C5'-C4'	8.56	1.64	1.51
1	B	1188	U	C5'-C4'	8.56	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2389	G	C5'-C4'	8.56	1.64	1.51
1	B	779	U	C5'-C4'	8.55	1.64	1.51
1	B	912	C	C1'-N1	8.55	1.61	1.48
1	B	1396	U	C5'-C4'	8.55	1.64	1.51
1	B	298	G	O5'-C5'	8.55	1.55	1.42
1	B	1580	A	C3'-O3'	8.55	1.54	1.42
1	B	456	C	C5'-C4'	8.54	1.64	1.51
1	B	1340	U	C5'-C4'	8.54	1.64	1.51
1	B	481	G	C5'-C4'	8.54	1.64	1.51
1	B	571	U	O5'-C5'	8.54	1.55	1.42
1	B	2309	A	C5'-C4'	8.54	1.64	1.51
1	B	793	A	C5'-C4'	8.54	1.64	1.51
1	B	506	G	C3'-O3'	8.53	1.54	1.42
1	B	527	C	C5'-C4'	8.53	1.64	1.51
1	B	2165	C	C3'-O3'	8.53	1.54	1.42
1	B	2720	U	C3'-O3'	8.53	1.54	1.42
1	B	803	U	C5'-C4'	8.52	1.64	1.51
1	B	818	G	C5'-C4'	8.52	1.64	1.51
1	B	1615	C	C5'-C4'	8.52	1.64	1.51
1	B	1135	C	C3'-O3'	8.52	1.54	1.42
1	B	2764	A	C5'-C4'	8.52	1.64	1.51
1	B	2892	G	C5'-C4'	8.52	1.64	1.51
1	B	49	A	C5'-C4'	8.51	1.64	1.51
1	B	2268	A	C5'-C4'	8.51	1.64	1.51
1	B	2574	G	C5'-C4'	8.51	1.64	1.51
1	B	1955	U	C3'-O3'	8.50	1.54	1.42
1	B	499	U	C3'-O3'	8.50	1.54	1.42
1	B	1698	A	C3'-O3'	8.50	1.54	1.42
1	B	390	U	C5'-C4'	8.50	1.64	1.51
1	B	1744	A	C3'-O3'	8.49	1.54	1.42
1	B	751	A	C3'-O3'	8.49	1.54	1.42
1	B	911	A	C5'-C4'	8.49	1.64	1.51
1	B	1210	G	C3'-O3'	8.49	1.54	1.42
1	B	168	G	C5'-C4'	8.48	1.64	1.51
1	B	2375	G	C5'-C4'	8.48	1.64	1.51
1	B	2282	G	C5'-C4'	8.48	1.64	1.51
1	B	2476	A	C5'-C4'	8.48	1.64	1.51
1	B	360	U	C5'-C4'	8.48	1.64	1.51
1	B	2893	A	C5'-C4'	8.48	1.64	1.51
1	B	1263	U	C5'-C4'	8.48	1.64	1.51
1	B	586	A	O5'-C5'	8.47	1.55	1.42
1	B	2016	U	C3'-O3'	8.47	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2681	C	C3'-O3'	8.46	1.54	1.42
1	B	249	C	C5'-C4'	8.46	1.64	1.51
1	B	480	A	C5'-C4'	8.46	1.64	1.51
1	B	2790	U	C5'-C4'	8.46	1.64	1.51
1	B	2890	G	C5'-C4'	8.46	1.64	1.51
1	B	244	A	C5'-C4'	8.46	1.64	1.51
1	B	2144	G	C3'-O3'	8.46	1.54	1.42
1	B	383	C	C3'-O3'	8.45	1.54	1.42
1	B	1583	A	C5'-C4'	8.45	1.64	1.51
1	B	2016	U	C5'-C4'	8.45	1.64	1.51
1	B	2751	G	C3'-O3'	8.45	1.54	1.42
1	B	241	A	C5'-C4'	8.45	1.64	1.51
1	B	339	U	C3'-O3'	8.45	1.54	1.42
1	B	574	A	C3'-O3'	8.45	1.54	1.42
1	B	1714	U	C3'-O3'	8.45	1.54	1.42
1	B	2166	U	C5'-C4'	8.44	1.64	1.51
1	B	686	U	C3'-O3'	8.44	1.54	1.42
1	B	1284	A	O5'-C5'	8.44	1.55	1.42
1	B	1470	A	C5'-C4'	8.44	1.64	1.51
1	B	2628	C	C5'-C4'	8.44	1.64	1.51
1	B	370	G	C3'-O3'	8.43	1.54	1.42
1	B	718	A	C3'-O3'	8.43	1.54	1.42
1	B	2173	A	C5'-C4'	8.43	1.63	1.51
1	B	2311	A	C3'-O3'	8.43	1.54	1.42
1	B	1286	A	C5'-C4'	8.42	1.63	1.51
1	B	1394	U	C3'-O3'	8.42	1.54	1.42
1	B	2391	G	C5'-C4'	8.42	1.63	1.51
1	B	704	G	C3'-O3'	8.42	1.54	1.42
1	B	466	A	C5'-C4'	8.41	1.63	1.51
1	B	345	A	C3'-O3'	8.41	1.54	1.42
1	B	504	A	C3'-O3'	8.41	1.54	1.42
1	B	1266	G	C5'-C4'	8.41	1.63	1.51
1	B	1913	A	C3'-O3'	8.41	1.54	1.42
1	B	2885	G	C5'-C4'	8.40	1.63	1.51
1	B	726	G	C5'-C4'	8.40	1.63	1.51
1	B	454	A	C5'-C4'	8.39	1.63	1.51
1	B	2213	U	C5'-C4'	8.39	1.63	1.51
1	B	531	C	C5'-C4'	8.39	1.63	1.51
1	B	1828	G	C5'-C4'	8.39	1.63	1.51
1	B	1358	G	C5'-C4'	8.38	1.63	1.51
1	B	2214	C	C5'-C4'	8.38	1.63	1.51
1	B	2390	U	C3'-O3'	8.37	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2307	G	C3'-O3'	8.37	1.54	1.42
1	B	1302	A	O5'-C5'	8.37	1.54	1.42
1	B	1366	A	C3'-O3'	8.37	1.54	1.42
1	B	1204	A	C3'-O3'	8.36	1.54	1.42
1	B	1573	G	O5'-C5'	8.36	1.54	1.42
1	B	782	A	C3'-O3'	8.36	1.54	1.42
1	B	2595	G	C3'-O3'	8.36	1.54	1.42
1	B	2583	G	C5'-C4'	8.36	1.63	1.51
1	B	2756	U	C5'-C4'	8.35	1.63	1.51
1	B	401	A	C3'-O3'	8.35	1.54	1.42
1	B	2146	C	C5'-C4'	8.35	1.63	1.51
1	B	1872	A	C5'-C4'	8.34	1.63	1.51
1	B	1598	A	C5'-C4'	8.34	1.63	1.51
1	B	1697	G	C3'-O3'	8.34	1.54	1.42
1	B	469	G	C3'-O3'	8.34	1.54	1.42
1	B	927	A	C3'-O3'	8.34	1.54	1.42
1	B	1693	U	C3'-O3'	8.34	1.54	1.42
1	B	1912	A	C3'-O3'	8.34	1.54	1.42
1	B	896	A	C5'-C4'	8.33	1.63	1.51
1	B	1965	C	C3'-O3'	8.33	1.54	1.42
1	B	2779	U	C3'-O3'	8.33	1.54	1.42
1	B	2469	A	O5'-C5'	8.33	1.54	1.42
1	B	2475	C	C3'-O3'	8.33	1.54	1.42
1	B	2775	G	C5'-C4'	8.33	1.63	1.51
1	B	588	U	O5'-C5'	8.33	1.55	1.42
1	B	2686	G	C5'-C4'	8.33	1.63	1.51
1	B	452	G	C3'-O3'	8.32	1.54	1.42
1	B	2253	G	C5'-C4'	8.32	1.63	1.51
1	B	636	G	C3'-O3'	8.32	1.54	1.42
1	B	2133	G	C3'-O3'	8.32	1.54	1.42
1	B	2500	U	C5'-C4'	8.32	1.63	1.51
1	B	450	G	O5'-C5'	8.32	1.54	1.42
1	B	2431	U	C5'-C4'	8.32	1.63	1.51
1	B	2687	U	C5'-C4'	8.32	1.63	1.51
1	B	1033	U	C3'-O3'	8.32	1.54	1.42
1	B	2798	U	C5'-C4'	8.32	1.63	1.51
1	B	242	G	C3'-O3'	8.31	1.54	1.42
1	B	2185	U	C3'-O3'	8.31	1.54	1.42
1	B	1634	A	C3'-O3'	8.31	1.54	1.42
1	B	465	G	C3'-O3'	8.30	1.54	1.42
1	B	2029	G	C3'-O3'	8.30	1.54	1.42
1	B	340	A	C5'-C4'	8.30	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1927	A	C1'-N9	8.30	1.64	1.48
1	B	2376	A	C3'-O3'	8.29	1.54	1.42
1	B	1267	U	C3'-O3'	8.29	1.54	1.42
1	B	2244	U	C5'-C4'	8.29	1.63	1.51
1	B	2473	U	C3'-O3'	8.29	1.54	1.42
1	B	1494	A	C5'-C4'	8.29	1.63	1.51
1	B	1690	A	C5'-C4'	8.29	1.63	1.51
1	B	126	A	C5'-C4'	8.29	1.63	1.51
1	B	1010	A	C5'-C4'	8.29	1.63	1.51
1	B	2825	G	C3'-O3'	8.29	1.54	1.42
1	B	2893	A	C3'-O3'	8.29	1.54	1.42
1	B	2806	C	C5'-C4'	8.29	1.63	1.51
1	B	255	A	C3'-O3'	8.28	1.54	1.42
1	B	1001	A	C5'-C4'	8.28	1.63	1.51
1	B	2212	A	C5'-C4'	8.28	1.63	1.51
1	B	321	U	O5'-C5'	8.28	1.54	1.42
1	B	1801	A	C5'-C4'	8.28	1.63	1.51
1	B	2644	G	C5'-C4'	8.28	1.63	1.51
1	B	1366	A	C5'-C4'	8.27	1.63	1.51
1	B	1781	U	C5'-C4'	8.27	1.63	1.51
1	B	181	A	C3'-O3'	8.27	1.54	1.42
1	B	389	G	C5'-C4'	8.27	1.63	1.51
1	B	1719	G	C3'-O3'	8.27	1.54	1.42
1	B	1616	A	C3'-O3'	8.27	1.54	1.42
1	B	1744	A	C5'-C4'	8.27	1.63	1.51
1	B	1689	A	C5'-C4'	8.26	1.63	1.51
1	B	1175	A	C5'-C4'	8.25	1.63	1.51
1	B	1839	G	C5'-C4'	8.25	1.63	1.51
1	B	2059	A	C5'-C4'	8.25	1.63	1.51
1	B	481	G	C3'-O3'	8.25	1.54	1.42
1	B	2116	G	C5'-C4'	8.25	1.63	1.51
1	B	2309	A	C3'-O3'	8.25	1.54	1.42
1	B	180	G	C3'-O3'	8.25	1.54	1.42
1	B	645	C	C3'-O3'	8.24	1.54	1.42
1	B	1883	U	C5'-C4'	8.24	1.63	1.51
1	B	1757	A	C3'-O3'	8.24	1.54	1.42
1	B	561	G	C5'-C4'	8.24	1.63	1.51
1	B	1912	A	C5'-C4'	8.24	1.63	1.51
1	B	189	G	C3'-O3'	8.23	1.54	1.42
1	B	1604	C	C5'-C4'	8.23	1.63	1.51
1	B	562	U	C3'-O3'	8.23	1.54	1.42
1	B	789	A	C3'-O3'	8.23	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1495	A	C5'-C4'	8.23	1.63	1.51
1	B	1569	A	C3'-O3'	8.23	1.54	1.42
1	B	2197	U	C5'-C4'	8.23	1.63	1.51
1	B	229	C	C5'-C4'	8.23	1.63	1.51
1	B	307	G	C5'-C4'	8.22	1.63	1.51
1	B	387	U	C5'-C4'	8.22	1.63	1.51
1	B	1524	G	C3'-O3'	8.22	1.54	1.42
1	B	2376	A	C5'-C4'	8.22	1.63	1.51
1	B	1626	A	O5'-C5'	8.21	1.54	1.42
1	B	1241	A	C3'-O3'	8.21	1.54	1.42
1	B	1773	A	C3'-O3'	8.21	1.54	1.42
1	B	2286	G	C5'-C4'	8.21	1.63	1.51
1	B	2440	C	C3'-O3'	8.21	1.54	1.42
1	B	2809	A	C5'-C4'	8.21	1.63	1.51
1	B	1353	A	C3'-O3'	8.20	1.54	1.42
1	B	1602	U	C5'-C4'	8.20	1.63	1.51
1	B	1687	G	C3'-O3'	8.20	1.54	1.42
1	B	2225	A	C3'-O3'	8.20	1.54	1.42
1	B	299	A	O5'-C5'	8.20	1.54	1.42
1	B	1571	A	C5'-C4'	8.19	1.63	1.51
1	B	1635	A	C3'-O3'	8.19	1.54	1.42
1	B	1774	C	C5'-C4'	8.19	1.63	1.51
1	B	1212	G	C5'-C4'	8.19	1.63	1.51
1	B	13	A	C5'-C4'	8.18	1.63	1.51
1	B	2595	G	C5'-C4'	8.18	1.63	1.51
1	B	867	C	C3'-O3'	8.18	1.54	1.42
1	B	876	C	C5'-C4'	8.18	1.63	1.51
1	B	360	U	C3'-O3'	8.18	1.54	1.42
1	B	1469	A	C3'-O3'	8.18	1.54	1.42
1	B	389	G	C3'-O3'	8.18	1.54	1.42
1	B	1395	A	C5'-C4'	8.18	1.63	1.51
1	B	2390	U	C5'-C4'	8.17	1.63	1.51
1	B	254	G	C5'-C4'	8.17	1.63	1.51
1	B	1359	A	C3'-O3'	8.17	1.54	1.42
1	B	429	A	C1'-N9	8.17	1.64	1.48
1	B	2169	A	C5'-C4'	8.17	1.63	1.51
1	B	386	G	C3'-O3'	8.17	1.54	1.42
1	B	961	C	C5'-C4'	8.16	1.63	1.51
1	B	804	A	C3'-O3'	8.16	1.54	1.42
1	B	1781	U	C3'-O3'	8.16	1.54	1.42
1	B	1953	A	C3'-O3'	8.16	1.54	1.42
1	B	228	C	C3'-O3'	8.16	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1692	U	C3'-O3'	8.16	1.54	1.42
1	B	1203	U	C5'-C4'	8.16	1.63	1.51
1	B	1352	U	C5'-C4'	8.15	1.63	1.51
1	B	219	A	C3'-O3'	8.15	1.54	1.42
1	B	1526	C	C3'-O3'	8.15	1.54	1.42
1	B	530	G	C5'-C4'	8.15	1.63	1.51
1	B	477	A	O5'-C5'	8.15	1.54	1.42
1	B	1224	U	C5'-C4'	8.15	1.63	1.51
1	B	2198	A	C5'-C4'	8.15	1.63	1.51
1	B	2157	G	C3'-O3'	8.15	1.54	1.42
1	B	933	A	C5'-C4'	8.14	1.63	1.51
1	B	2530	A	C5'-C4'	8.14	1.63	1.51
1	B	1567	G	O5'-C5'	8.14	1.54	1.42
1	B	2394	C	C5'-C4'	8.14	1.63	1.51
1	B	820	A	C5'-C4'	8.14	1.63	1.51
1	B	1818	U	C3'-O3'	8.14	1.54	1.42
1	B	714	U	C5'-C4'	8.14	1.63	1.51
1	B	556	A	C5'-C4'	8.13	1.63	1.51
1	B	1581	G	C5'-C4'	8.13	1.63	1.51
1	B	531	C	C3'-O3'	8.13	1.54	1.42
1	B	1342	A	C5'-C4'	8.13	1.63	1.51
1	B	2388	A	C5'-C4'	8.13	1.63	1.51
1	B	1558	C	C5'-C4'	8.12	1.63	1.51
1	B	1604	C	C3'-O3'	8.12	1.54	1.42
1	B	2493	U	C3'-O3'	8.12	1.54	1.42
1	B	1328	A	C3'-O3'	8.12	1.54	1.42
1	B	251	A	C5'-C4'	8.12	1.63	1.51
1	B	100	U	C1'-N1	8.12	1.60	1.48
1	B	2357	G	C5'-C4'	8.11	1.63	1.51
1	B	2754	U	C3'-O3'	8.11	1.54	1.42
1	B	1929	G	C5'-C4'	8.11	1.63	1.51
1	B	1049	C	C5'-C4'	8.10	1.63	1.51
1	B	1720	U	C3'-O3'	8.10	1.54	1.42
1	B	2270	A	C5'-C4'	8.10	1.63	1.51
1	B	2366	A	C3'-O3'	8.10	1.54	1.42
1	B	633	A	C3'-O3'	8.10	1.54	1.42
1	B	1780	A	C3'-O3'	8.10	1.54	1.42
1	B	1722	A	C5'-C4'	8.10	1.63	1.51
1	B	1890	A	C5'-C4'	8.10	1.63	1.51
1	B	2031	A	C5'-C4'	8.10	1.63	1.51
1	B	989	G	O5'-C5'	8.09	1.54	1.42
1	B	1416	G	C5'-C4'	8.09	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1617	C	C3'-O3'	8.09	1.54	1.42
1	B	402	A	C5'-C4'	8.09	1.63	1.51
1	B	2269	G	C3'-O3'	8.09	1.54	1.42
1	B	749	A	C5'-C4'	8.09	1.63	1.51
1	B	1312	U	O5'-C5'	8.09	1.54	1.42
1	B	178	G	C5'-C4'	8.08	1.63	1.51
1	B	509	C	C5'-C4'	8.08	1.63	1.51
1	B	309	A	C3'-O3'	8.08	1.54	1.42
1	B	830	G	C5'-C4'	8.08	1.63	1.51
1	B	1205	A	C5'-C4'	8.08	1.63	1.51
1	B	1494	A	C3'-O3'	8.08	1.54	1.42
1	B	2214	C	C3'-O3'	8.07	1.54	1.42
1	B	64	A	O5'-C5'	8.07	1.54	1.42
1	B	726	G	C3'-O3'	8.06	1.54	1.42
1	B	2542	A	C5'-C4'	8.06	1.63	1.51
1	B	2808	G	C3'-O3'	8.06	1.54	1.42
1	B	1858	A	C3'-O3'	8.06	1.54	1.42
1	B	1384	A	C5'-C4'	8.06	1.63	1.51
1	B	1535	A	C3'-O3'	8.06	1.54	1.42
1	B	1495	A	C3'-O3'	8.05	1.54	1.42
1	B	1672	A	C5'-C4'	8.05	1.63	1.51
1	B	2597	G	C5'-C4'	8.05	1.63	1.51
1	B	2104	C	C3'-O3'	8.05	1.54	1.42
1	B	2690	U	O5'-C5'	8.05	1.54	1.42
1	B	1695	G	C5'-C4'	8.04	1.63	1.51
1	B	837	C	C5'-C4'	8.04	1.63	1.51
1	B	1364	G	C3'-O3'	8.04	1.54	1.42
1	B	1568	G	C3'-O3'	8.04	1.54	1.42
1	B	2860	A	C5'-C4'	8.04	1.63	1.51
1	B	217	A	O5'-C5'	8.04	1.54	1.42
1	B	1870	C	O5'-C5'	8.04	1.54	1.42
1	B	2237	G	C3'-O3'	8.04	1.54	1.42
1	B	547	A	C3'-O3'	8.04	1.54	1.42
1	B	563	A	C3'-O3'	8.04	1.54	1.42
1	B	863	A	C5'-C4'	8.04	1.63	1.51
1	B	1175	A	C3'-O3'	8.04	1.54	1.42
1	B	2475	C	C5'-C4'	8.04	1.63	1.51
1	B	247	G	C3'-O3'	8.03	1.54	1.42
1	B	1730	C	C5'-C4'	8.03	1.63	1.51
1	B	2015	A	C3'-O3'	8.03	1.54	1.42
1	B	1992	G	O5'-C5'	8.03	1.54	1.42
1	B	2499	C	C5'-C4'	8.02	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	223	A	C5'-C4'	8.02	1.63	1.51
1	B	563	A	C5'-C4'	8.02	1.63	1.51
1	B	655	A	C5'-C4'	8.02	1.63	1.51
1	B	1732	C	C5'-C4'	8.02	1.63	1.51
1	B	443	A	C3'-O3'	8.02	1.54	1.42
1	B	1367	A	C5'-C4'	8.02	1.63	1.51
1	B	1393	A	C3'-O3'	8.02	1.54	1.42
1	B	181	A	C5'-C4'	8.01	1.63	1.51
1	B	1615	C	C3'-O3'	8.01	1.54	1.42
1	B	422	A	C5'-C4'	8.01	1.63	1.51
1	B	1603	A	C3'-O3'	8.01	1.54	1.42
1	B	2019	A	C5'-C4'	8.01	1.63	1.51
1	B	385	C	C3'-O3'	8.01	1.54	1.42
1	B	2225	A	C5'-C4'	8.01	1.63	1.51
1	B	1729	U	C3'-O3'	8.01	1.54	1.42
1	B	1891	G	C5'-C4'	8.01	1.63	1.51
1	B	2226	C	C5'-C4'	8.01	1.63	1.51
1	B	630	G	C3'-O3'	8.00	1.54	1.42
1	B	632	A	C5'-C4'	8.00	1.63	1.51
1	B	1027	A	C5'-C4'	8.00	1.63	1.51
1	B	2238	G	C5'-C4'	8.00	1.63	1.51
1	B	275	C	O5'-C5'	8.00	1.54	1.42
1	B	1755	A	C5'-C4'	8.00	1.63	1.51
1	B	546	U	C5'-C4'	8.00	1.63	1.51
1	B	1693	U	C5'-C4'	8.00	1.63	1.51
1	B	538	A	C5'-C4'	7.99	1.63	1.51
1	B	2638	G	C3'-O3'	7.99	1.54	1.42
1	B	63	A	C5'-C4'	7.99	1.63	1.51
1	B	1763	G	C5'-C4'	7.98	1.63	1.51
1	B	2835	A	C3'-O3'	7.98	1.54	1.42
1	B	1211	C	C3'-O3'	7.97	1.54	1.42
1	B	1851	U	C3'-O3'	7.97	1.54	1.42
1	B	2857	G	C5'-C4'	7.97	1.63	1.51
1	B	1136	G	C3'-O3'	7.97	1.54	1.42
1	B	1515	A	C5'-C4'	7.97	1.63	1.51
1	B	1809	A	C5'-C4'	7.96	1.63	1.51
1	B	308	G	C5'-C4'	7.96	1.63	1.51
1	B	310	A	C3'-O3'	7.96	1.54	1.42
1	B	1809	A	C3'-O3'	7.96	1.54	1.42
1	B	2602	A	C3'-O3'	7.96	1.54	1.42
1	B	1509	A	C3'-O3'	7.96	1.54	1.42
1	B	2433	A	C3'-O3'	7.96	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2565	A	C5'-C4'	7.96	1.63	1.51
1	B	1341	G	C3'-O3'	7.96	1.54	1.42
1	B	1664	A	C3'-O3'	7.96	1.54	1.42
1	B	2499	C	C3'-O3'	7.96	1.54	1.42
1	B	2311	A	C5'-C4'	7.96	1.63	1.51
1	B	1954	G	C5'-C4'	7.95	1.63	1.51
1	B	1173	U	C3'-O3'	7.95	1.54	1.42
1	B	2179	C	C5'-C4'	7.95	1.63	1.51
1	B	2326	C	C3'-O3'	7.95	1.54	1.42
1	B	616	A	C3'-O3'	7.94	1.54	1.42
1	B	1110	G	C3'-O3'	7.94	1.54	1.42
1	B	1136	G	C5'-C4'	7.94	1.63	1.51
1	B	2610	C	C3'-O3'	7.94	1.54	1.42
1	B	2477	U	C5'-C4'	7.93	1.63	1.51
1	B	2732	G	C5'-C4'	7.93	1.63	1.51
1	B	371	A	C5'-C4'	7.93	1.63	1.51
1	B	1155	A	C3'-O3'	7.93	1.54	1.42
1	B	1433	A	C5'-C4'	7.93	1.63	1.51
1	B	2356	U	C5'-C4'	7.93	1.63	1.51
1	B	1762	A	C3'-O3'	7.93	1.54	1.42
1	B	2583	G	C3'-O3'	7.93	1.54	1.42
1	B	2748	A	C5'-C4'	7.93	1.63	1.51
1	B	888	C	C5'-C4'	7.93	1.63	1.51
1	B	1434	A	C5'-C4'	7.92	1.63	1.51
1	B	1225	G	C5'-C4'	7.92	1.63	1.51
1	B	1729	U	C5'-C4'	7.92	1.63	1.51
1	B	1900	A	C5'-C4'	7.92	1.63	1.51
1	B	614	A	C3'-O3'	7.92	1.54	1.42
1	B	886	A	C3'-O3'	7.92	1.54	1.42
1	B	2820	A	C5'-C4'	7.92	1.63	1.51
1	B	2845	U	C5'-C4'	7.92	1.63	1.51
1	B	871	U	C5'-C4'	7.92	1.63	1.51
1	B	2035	G	C5'-C4'	7.92	1.63	1.51
1	B	2266	A	C3'-O3'	7.92	1.54	1.42
1	B	1135	C	O5'-C5'	7.91	1.54	1.42
1	B	2179	C	C3'-O3'	7.91	1.54	1.42
1	B	447	A	C3'-O3'	7.91	1.54	1.42
1	B	1696	G	O5'-C5'	7.91	1.54	1.42
1	B	1791	A	O5'-C5'	7.91	1.54	1.42
1	B	2756	U	C3'-O3'	7.91	1.54	1.42
1	B	887	U	C5'-C4'	7.90	1.63	1.51
1	B	248	G	C5'-C4'	7.90	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1515	A	C3'-O3'	7.89	1.53	1.42
1	B	614	A	C5'-C4'	7.89	1.63	1.51
1	B	1122	G	C3'-O3'	7.89	1.53	1.42
1	B	1752	C	O5'-C5'	7.89	1.54	1.42
1	B	199	A	C5'-C4'	7.88	1.63	1.51
1	B	1758	U	C5'-C4'	7.88	1.63	1.51
1	B	2351	G	C3'-O3'	7.88	1.53	1.42
1	B	1634	A	C5'-C4'	7.88	1.63	1.51
1	B	2533	U	C5'-C4'	7.88	1.63	1.51
1	B	2596	U	C5'-C4'	7.88	1.63	1.51
1	B	901	C	C5'-C4'	7.87	1.63	1.51
1	B	1188	U	C3'-O3'	7.87	1.53	1.42
1	B	1759	A	C5'-C4'	7.87	1.63	1.51
1	B	344	A	C3'-O3'	7.87	1.53	1.42
1	B	2534	A	C3'-O3'	7.87	1.53	1.42
1	B	569	U	C3'-O3'	7.87	1.53	1.42
1	B	871	U	C3'-O3'	7.86	1.53	1.42
1	B	1210	G	C5'-C4'	7.86	1.63	1.51
1	B	957	C	C3'-O3'	7.86	1.53	1.42
1	B	526	A	C3'-O3'	7.86	1.53	1.42
1	B	250	G	C5'-C4'	7.86	1.63	1.51
1	B	1728	C	C3'-O3'	7.86	1.53	1.42
1	B	2753	A	C3'-O3'	7.86	1.53	1.42
1	B	383	C	C5'-C4'	7.85	1.63	1.51
1	B	2359	C	C5'-C4'	7.85	1.63	1.51
1	B	1514	G	C5'-C4'	7.84	1.63	1.51
1	B	2306	C	C5'-C4'	7.84	1.63	1.51
1	B	2870	C	C5'-C4'	7.84	1.63	1.51
1	B	566	U	O5'-C5'	7.84	1.54	1.42
1	B	2345	G	C3'-O3'	7.84	1.53	1.42
1	B	2721	A	C5'-C4'	7.84	1.63	1.51
1	B	1027	A	C1'-N9	7.84	1.59	1.48
1	B	1354	A	C3'-O3'	7.84	1.53	1.42
1	B	2835	A	C5'-C4'	7.84	1.63	1.51
1	B	716	A	C5'-C4'	7.83	1.63	1.51
1	B	828	U	C3'-O3'	7.83	1.53	1.42
1	B	1425	G	C5'-C4'	7.83	1.63	1.51
1	B	2310	C	C3'-O3'	7.83	1.53	1.42
1	B	727	A	C3'-O3'	7.83	1.53	1.42
1	B	1701	A	C3'-O3'	7.83	1.53	1.42
1	B	2238	G	C3'-O3'	7.83	1.53	1.42
1	B	828	U	C5'-C4'	7.82	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2164	C	C5'-C4'	7.82	1.62	1.51
1	B	2282	G	C3'-O3'	7.82	1.53	1.42
1	B	220	G	C5'-C4'	7.82	1.62	1.51
1	B	1427	A	C5'-C4'	7.82	1.62	1.51
1	B	643	A	C5'-C4'	7.82	1.62	1.51
1	B	1226	A	C5'-C4'	7.82	1.62	1.51
1	B	1397	U	C5'-C4'	7.82	1.62	1.51
1	B	546	U	C3'-O3'	7.81	1.53	1.42
1	B	2028	U	C3'-O3'	7.81	1.53	1.42
1	B	2325	G	C3'-O3'	7.81	1.53	1.42
1	B	2586	U	C5'-C4'	7.81	1.62	1.51
1	B	514	A	C5'-C4'	7.81	1.62	1.51
1	B	2170	A	C5'-C4'	7.81	1.62	1.51
1	B	1383	A	C3'-O3'	7.81	1.53	1.42
1	B	1176	U	C5'-C4'	7.80	1.62	1.51
1	B	547	A	C5'-C4'	7.80	1.62	1.51
1	B	2266	A	C5'-C4'	7.80	1.62	1.51
1	B	2534	A	C5'-C4'	7.80	1.62	1.51
1	B	1617	C	C5'-C4'	7.80	1.62	1.51
1	B	2171	A	C5'-C4'	7.80	1.62	1.51
1	B	2824	C	C3'-O3'	7.80	1.53	1.42
1	B	615	U	C5'-C4'	7.79	1.62	1.51
1	B	805	G	C5'-C4'	7.79	1.62	1.51
1	B	1803	A	O5'-C5'	7.79	1.54	1.42
1	B	138	U	C5'-C4'	7.79	1.62	1.51
1	B	676	A	C3'-O3'	7.79	1.53	1.42
1	B	388	G	C5'-C4'	7.78	1.62	1.51
1	B	2763	G	C3'-O3'	7.78	1.53	1.42
1	B	1468	U	C1'-N1	7.77	1.60	1.48
1	B	1633	G	C5'-C4'	7.77	1.62	1.51
1	B	2275	C	C5'-C4'	7.77	1.62	1.51
1	B	2596	U	C3'-O3'	7.76	1.53	1.42
1	B	163	C	C5'-C4'	7.76	1.62	1.51
1	B	490	C	C5'-C4'	7.76	1.62	1.51
1	B	1496	A	C5'-C4'	7.76	1.62	1.51
1	B	446	G	C5'-C4'	7.75	1.62	1.51
1	B	2859	G	C3'-O3'	7.75	1.53	1.42
1	B	488	G	C3'-O3'	7.75	1.53	1.42
1	B	141	G	C5'-C4'	7.75	1.62	1.51
1	B	198	C	C5'-C4'	7.75	1.62	1.51
1	B	562	U	C5'-C4'	7.75	1.62	1.51
1	B	1783	A	C5'-C4'	7.75	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	232	G	C5'-C4'	7.75	1.62	1.51
1	B	1913	A	C5'-C4'	7.75	1.62	1.51
1	B	899	A	C5'-C4'	7.75	1.62	1.51
1	B	1223	G	C3'-O3'	7.75	1.53	1.42
1	B	750	A	C3'-O3'	7.74	1.53	1.42
1	B	959	A	C5'-C4'	7.74	1.62	1.51
1	B	1671	U	C5'-C4'	7.74	1.62	1.51
1	B	900	A	C3'-O3'	7.73	1.53	1.42
1	B	2530	A	C3'-O3'	7.73	1.53	1.42
1	B	1535	A	C5'-C4'	7.73	1.62	1.51
1	B	1616	A	C5'-C4'	7.73	1.62	1.51
1	B	384	A	C5'-C4'	7.73	1.62	1.51
1	B	827	U	C3'-O3'	7.73	1.53	1.42
1	B	373	U	C5'-C4'	7.73	1.62	1.51
1	B	829	A	C5'-C4'	7.73	1.62	1.51
1	B	718	A	C5'-C4'	7.72	1.62	1.51
1	B	2082	A	C5'-C4'	7.72	1.62	1.51
1	B	2747	G	C3'-O3'	7.72	1.53	1.42
1	B	1699	G	C3'-O3'	7.72	1.53	1.42
1	B	162	U	C3'-O3'	7.72	1.53	1.42
1	B	391	A	C5'-C4'	7.72	1.62	1.51
1	B	1819	A	C3'-O3'	7.72	1.53	1.42
1	B	616	A	C5'-C4'	7.71	1.62	1.51
1	B	888	C	C3'-O3'	7.71	1.53	1.42
1	B	889	C	C5'-C4'	7.71	1.62	1.51
1	B	371	A	C3'-O3'	7.71	1.53	1.42
1	B	1454	C	C5'-C4'	7.71	1.62	1.51
1	B	2431	U	C3'-O3'	7.71	1.53	1.42
1	B	2891	U	C5'-C4'	7.71	1.62	1.51
1	B	717	C	C5'-C4'	7.71	1.62	1.51
1	B	944	C	C5'-C4'	7.71	1.62	1.51
1	B	1109	C	C3'-O3'	7.70	1.53	1.42
1	B	2032	G	C5'-C4'	7.70	1.62	1.51
1	B	2739	U	C3'-O3'	7.70	1.53	1.42
1	B	1396	U	C3'-O3'	7.70	1.53	1.42
1	B	422	A	C3'-O3'	7.70	1.53	1.42
1	B	943	A	C5'-C4'	7.70	1.62	1.51
1	B	2197	U	C3'-O3'	7.70	1.53	1.42
1	B	2482	A	C5'-C4'	7.70	1.62	1.51
1	B	507	A	C5'-C4'	7.70	1.62	1.51
1	B	2473	U	C5'-C4'	7.69	1.62	1.51
1	B	2237	G	C5'-C4'	7.69	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1546	G	O5'-C5'	7.69	1.53	1.42
1	B	1808	A	C3'-O3'	7.69	1.53	1.42
1	B	2326	C	C5'-C4'	7.69	1.62	1.51
1	B	1755	A	C3'-O3'	7.69	1.53	1.42
1	B	734	A	C5'-C4'	7.69	1.62	1.51
1	B	1758	U	C3'-O3'	7.69	1.53	1.42
1	B	1265	A	C3'-O3'	7.68	1.53	1.42
1	B	2271	G	C3'-O3'	7.68	1.53	1.42
1	B	2308	G	C5'-C4'	7.68	1.62	1.51
1	B	2474	U	C3'-O3'	7.68	1.53	1.42
1	B	2411	A	C5'-C4'	7.68	1.62	1.51
1	B	228	C	C5'-C4'	7.68	1.62	1.51
1	B	1571	A	C3'-O3'	7.68	1.53	1.42
1	B	1731	G	C5'-C4'	7.68	1.62	1.51
1	B	2157	G	O5'-C5'	7.68	1.53	1.42
1	B	943	A	C3'-O3'	7.67	1.53	1.42
1	B	651	G	C3'-O3'	7.67	1.53	1.42
1	B	1417	C	C3'-O3'	7.67	1.53	1.42
1	B	2018	G	C3'-O3'	7.67	1.53	1.42
1	B	164	C	C5'-C4'	7.67	1.62	1.51
1	B	1603	A	C5'-C4'	7.66	1.62	1.51
1	B	1914	C	C3'-O3'	7.66	1.53	1.42
1	B	2776	A	C3'-O3'	7.66	1.53	1.42
1	B	2705	A	C5'-C4'	7.66	1.62	1.51
1	B	1490	A	C5'-C4'	7.66	1.62	1.51
1	B	2013	A	C5'-C4'	7.66	1.62	1.51
1	B	464	U	C5'-C4'	7.66	1.62	1.51
1	B	1971	U	C1'-N1	7.65	1.59	1.48
1	B	1526	C	C5'-C4'	7.65	1.62	1.51
1	B	1633	G	C3'-O3'	7.65	1.53	1.42
1	B	1310	G	C5'-C4'	7.65	1.62	1.51
1	B	1552	A	C5'-C4'	7.65	1.62	1.51
1	B	330	A	C5'-C4'	7.65	1.62	1.51
1	B	715	A	C5'-C4'	7.65	1.62	1.51
1	B	243	U	C5'-C4'	7.64	1.62	1.51
1	B	345	A	C5'-C4'	7.64	1.62	1.51
1	B	1918	A	C5'-C4'	7.64	1.62	1.51
1	B	2118	U	C3'-O3'	7.64	1.53	1.42
1	B	2267	A	C5'-C4'	7.64	1.62	1.51
1	B	2451	A	O5'-C5'	7.64	1.53	1.42
1	B	139	U	C3'-O3'	7.64	1.53	1.42
1	B	1427	A	O5'-C5'	7.64	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2034	U	C5'-C4'	7.63	1.62	1.51
1	B	2271	G	C5'-C4'	7.63	1.62	1.51
1	B	2532	G	C3'-O3'	7.63	1.53	1.42
1	B	71	A	C3'-O3'	7.62	1.53	1.42
1	B	578	G	C3'-O3'	7.62	1.53	1.42
1	B	836	G	O5'-C5'	7.62	1.53	1.42
1	B	1224	U	C3'-O3'	7.62	1.53	1.42
1	B	2270	A	C3'-O3'	7.62	1.53	1.42
1	B	2298	A	C3'-O3'	7.62	1.53	1.42
1	B	2859	G	C5'-C4'	7.62	1.62	1.51
1	B	545	U	C5'-C4'	7.62	1.62	1.51
1	B	780	G	C3'-O3'	7.62	1.53	1.42
1	B	750	A	C5'-C4'	7.61	1.62	1.51
1	B	163	C	C3'-O3'	7.61	1.53	1.42
1	B	645	C	C5'-C4'	7.61	1.62	1.51
1	B	2584	U	C5'-C4'	7.61	1.62	1.51
1	B	1285	A	C3'-O3'	7.60	1.53	1.42
1	B	2531	A	C5'-C4'	7.60	1.62	1.51
1	B	1681	G	C5'-C4'	7.60	1.62	1.51
1	B	1940	U	C5'-C4'	7.60	1.62	1.51
1	B	867	C	C5'-C4'	7.59	1.62	1.51
1	B	910	A	C3'-O3'	7.59	1.53	1.42
1	B	361	G	C5'-C4'	7.59	1.62	1.51
1	B	751	A	C5'-C4'	7.58	1.62	1.51
1	B	2712	C	C3'-O3'	7.58	1.53	1.42
1	B	890	C	C5'-C4'	7.58	1.62	1.51
1	B	2823	A	C3'-O3'	7.58	1.53	1.42
1	B	2310	C	C5'-C4'	7.58	1.62	1.51
1	B	2360	G	C1'-N9	7.58	1.59	1.48
1	B	2033	A	C5'-C4'	7.57	1.62	1.51
1	B	652	U	O5'-C5'	7.57	1.53	1.42
1	B	1756	G	C5'-C4'	7.57	1.62	1.51
1	B	1008	A	C3'-O3'	7.56	1.53	1.42
1	B	2022	U	C3'-O3'	7.56	1.53	1.42
1	B	577	G	C5'-C4'	7.56	1.62	1.51
1	B	782	A	C5'-C4'	7.56	1.62	1.51
1	B	2848	G	C5'-C4'	7.56	1.62	1.51
1	B	1952	A	C3'-O3'	7.55	1.53	1.42
1	B	2013	A	C3'-O3'	7.55	1.54	1.43
1	B	714	U	C3'-O3'	7.55	1.53	1.42
1	B	866	A	C5'-C4'	7.55	1.62	1.51
1	B	1225	G	C3'-O3'	7.55	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2005	A	C5'-C4'	7.55	1.62	1.51
1	B	405	U	C3'-O3'	7.55	1.53	1.42
1	B	1394	U	C5'-C4'	7.55	1.62	1.51
1	B	1914	C	C5'-C4'	7.55	1.62	1.51
1	B	423	A	C5'-C4'	7.54	1.62	1.51
1	B	1265	A	C5'-C4'	7.54	1.62	1.51
1	B	2478	A	C5'-C4'	7.54	1.62	1.51
1	B	686	U	C5'-C4'	7.54	1.62	1.51
1	B	1692	U	C5'-C4'	7.54	1.62	1.51
1	B	48	G	C3'-O3'	7.54	1.53	1.42
1	B	613	A	C5'-C4'	7.54	1.62	1.51
1	B	2325	G	C5'-C4'	7.54	1.62	1.51
1	B	2849	U	C3'-O3'	7.54	1.53	1.42
1	B	829	A	C3'-O3'	7.53	1.53	1.42
1	B	1918	A	C3'-O3'	7.52	1.53	1.42
1	B	1677	A	C3'-O3'	7.52	1.53	1.42
1	B	2033	A	C3'-O3'	7.52	1.53	1.42
1	B	2029	G	C5'-C4'	7.52	1.62	1.51
1	B	1000	A	C3'-O3'	7.51	1.53	1.42
1	B	1126	A	C3'-O3'	7.51	1.53	1.42
1	B	47	C	O5'-C5'	7.51	1.53	1.42
1	B	2180	U	C5'-C4'	7.51	1.62	1.51
1	B	2719	G	O5'-C5'	7.51	1.53	1.42
1	B	819	A	C5'-C4'	7.50	1.62	1.51
1	B	1583	A	C3'-O3'	7.50	1.53	1.42
1	B	2719	G	C3'-O3'	7.50	1.53	1.42
1	B	251	A	C3'-O3'	7.49	1.53	1.42
1	B	1329	U	C5'-C4'	7.49	1.62	1.51
1	B	1255	U	C5'-C4'	7.48	1.62	1.51
1	B	91	A	C5'-C4'	7.48	1.62	1.51
1	B	555	G	C3'-O3'	7.48	1.53	1.42
1	B	889	C	C3'-O3'	7.48	1.53	1.42
1	B	612	G	C3'-O3'	7.48	1.53	1.42
1	B	2114	A	O5'-C5'	7.48	1.53	1.42
1	B	2789	C	C5'-C4'	7.48	1.62	1.51
1	B	197	A	C3'-O3'	7.48	1.53	1.42
1	B	2587	A	C3'-O3'	7.48	1.53	1.42
1	B	713	G	C5'-C4'	7.48	1.62	1.51
1	B	162	U	C5'-C4'	7.47	1.62	1.51
1	B	1458	U	C5'-C4'	7.47	1.62	1.51
1	B	1773	A	C5'-C4'	7.47	1.62	1.51
1	B	2777	G	C5'-C4'	7.47	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1537	G	C5'-C4'	7.46	1.62	1.51
1	B	2797	U	C5'-C4'	7.46	1.62	1.51
1	B	2028	U	C5'-C4'	7.46	1.62	1.51
1	B	451	U	C5'-C4'	7.46	1.62	1.51
1	B	339	U	C5'-C4'	7.46	1.62	1.51
1	B	1025	G	C3'-O3'	7.46	1.53	1.42
1	B	2542	A	C3'-O3'	7.46	1.53	1.42
1	B	1514	G	C3'-O3'	7.46	1.53	1.42
1	B	491	G	C3'-O3'	7.45	1.53	1.42
1	B	1536	C	C5'-C4'	7.45	1.62	1.51
1	B	1699	G	C5'-C4'	7.45	1.62	1.51
1	B	609	A	C5'-C4'	7.45	1.62	1.51
1	B	979	A	C3'-O3'	7.45	1.53	1.42
1	B	411	G	C3'-O3'	7.45	1.53	1.42
1	B	218	A	C5'-C4'	7.45	1.62	1.51
1	B	2609	U	C5'-C4'	7.45	1.62	1.51
1	B	2532	G	C5'-C4'	7.44	1.62	1.51
1	B	386	G	C5'-C4'	7.44	1.62	1.51
1	B	1688	U	C5'-C4'	7.44	1.62	1.51
1	B	1815	A	C5'-C4'	7.44	1.62	1.51
1	B	633	A	C5'-C4'	7.44	1.62	1.51
1	B	2212	A	C3'-O3'	7.44	1.53	1.42
1	B	1373	A	C5'-C4'	7.44	1.62	1.51
1	B	1204	A	C5'-C4'	7.43	1.62	1.51
1	B	1580	A	C5'-C4'	7.43	1.62	1.51
1	B	2573	C	C5'-C4'	7.43	1.62	1.51
1	B	2778	A	C5'-C4'	7.43	1.62	1.51
1	B	2886	A	C5'-C4'	7.43	1.62	1.51
1	B	213	A	O5'-C5'	7.43	1.53	1.42
1	B	716	A	C3'-O3'	7.42	1.53	1.42
1	B	492	A	C5'-C4'	7.42	1.62	1.51
1	B	2858	C	C3'-O3'	7.42	1.53	1.42
1	B	526	A	O5'-C5'	7.42	1.53	1.42
1	B	1392	A	C5'-C4'	7.42	1.62	1.51
1	B	2502	G	C5'-C4'	7.42	1.62	1.51
1	B	785	G	C3'-O3'	7.42	1.53	1.42
1	B	250	G	C3'-O3'	7.42	1.53	1.42
1	B	2712	C	C5'-C4'	7.41	1.62	1.51
1	B	2776	A	C5'-C4'	7.41	1.62	1.51
1	B	644	A	C3'-O3'	7.41	1.53	1.42
1	B	1653	G	C3'-O3'	7.41	1.53	1.42
1	B	226	A	C3'-O3'	7.41	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2481	G	C5'-C4'	7.41	1.62	1.51
1	B	249	C	C3'-O3'	7.40	1.53	1.42
1	B	1342	A	C3'-O3'	7.40	1.53	1.42
1	B	2116	G	C3'-O3'	7.40	1.53	1.42
1	B	958	U	C3'-O3'	7.40	1.53	1.42
1	B	2198	A	C3'-O3'	7.40	1.53	1.42
1	B	2797	U	C3'-O3'	7.39	1.53	1.42
1	B	886	A	C5'-C4'	7.39	1.62	1.51
1	B	1581	G	C3'-O3'	7.39	1.53	1.42
1	B	226	A	C5'-C4'	7.38	1.62	1.51
1	B	2203	U	C5'-C4'	7.38	1.62	1.51
1	B	2703	C	C3'-O3'	7.38	1.53	1.42
1	B	762	U	C1'-N1	7.38	1.59	1.48
1	B	1039	A	C5'-C4'	7.37	1.62	1.51
1	B	1916	A	C5'-C4'	7.37	1.62	1.51
1	B	1025	G	C5'-C4'	7.37	1.62	1.51
1	B	400	G	C5'-C4'	7.36	1.62	1.51
1	B	715	A	C3'-O3'	7.36	1.53	1.42
1	B	11	C	C5'-C4'	7.36	1.62	1.51
1	B	255	A	O5'-C5'	7.36	1.53	1.42
1	B	642	U	C3'-O3'	7.36	1.53	1.42
1	B	1467	U	O5'-C5'	7.35	1.53	1.42
1	B	1026	G	C5'-C4'	7.35	1.62	1.51
1	B	2825	G	C5'-C4'	7.35	1.62	1.51
1	B	644	A	C5'-C4'	7.35	1.62	1.51
1	B	470	A	C3'-O3'	7.35	1.53	1.42
1	B	165	A	C5'-C4'	7.34	1.62	1.51
1	B	980	A	C3'-O3'	7.34	1.53	1.42
1	B	2172	U	C3'-O3'	7.34	1.53	1.42
1	B	1140	C	C5'-C4'	7.34	1.62	1.51
1	B	780	G	C5'-C4'	7.33	1.62	1.51
1	B	1250	G	C3'-O3'	7.33	1.53	1.42
1	B	1282	U	C3'-O3'	7.33	1.53	1.42
1	B	1671	U	C3'-O3'	7.33	1.53	1.42
1	B	2481	G	C3'-O3'	7.33	1.53	1.42
1	B	309	A	C5'-C4'	7.33	1.62	1.51
1	B	1761	C	C3'-O3'	7.33	1.53	1.42
1	B	2777	G	C3'-O3'	7.33	1.53	1.42
1	B	1122	G	C5'-C4'	7.33	1.62	1.51
1	B	1509	A	C5'-C4'	7.33	1.62	1.51
1	B	2504	U	O5'-C5'	7.33	1.53	1.42
1	B	2585	U	C3'-O3'	7.33	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1264	A	C3'-O3'	7.32	1.53	1.42
1	B	2086	U	O5'-C5'	7.32	1.53	1.42
1	B	2572	A	C3'-O3'	7.32	1.53	1.42
1	B	570	G	O5'-C5'	7.32	1.53	1.42
1	B	2564	A	C3'-O3'	7.32	1.53	1.42
1	B	2268	A	C3'-O3'	7.32	1.53	1.42
1	B	1815	A	C3'-O3'	7.31	1.53	1.42
1	B	1688	U	C3'-O3'	7.30	1.53	1.42
1	B	1760	C	C5'-C4'	7.30	1.62	1.51
1	B	1732	C	C3'-O3'	7.30	1.53	1.42
1	B	1026	G	C3'-O3'	7.29	1.53	1.42
1	B	865	C	C3'-O3'	7.29	1.53	1.42
1	B	1154	G	C5'-C4'	7.29	1.62	1.51
1	B	654	A	C3'-O3'	7.29	1.53	1.42
1	B	1721	G	C5'-C4'	7.29	1.62	1.51
1	B	1719	G	C5'-C4'	7.29	1.62	1.51
1	B	548	G	C3'-O3'	7.28	1.53	1.42
1	B	578	G	C5'-C4'	7.28	1.62	1.51
1	B	2826	A	C5'-C4'	7.28	1.62	1.51
1	B	247	G	C5'-C4'	7.28	1.62	1.51
1	B	2807	U	C5'-C4'	7.28	1.62	1.51
1	B	1715	G	C5'-C4'	7.27	1.62	1.51
1	B	1127	A	C5'-C4'	7.27	1.62	1.51
1	B	1760	C	C3'-O3'	7.27	1.53	1.42
1	B	161	A	C3'-O3'	7.27	1.53	1.42
1	B	781	A	C3'-O3'	7.27	1.53	1.42
1	B	1763	G	C3'-O3'	7.27	1.53	1.42
1	B	2448	A	O5'-C5'	7.27	1.53	1.42
1	B	1308	A	C3'-O3'	7.27	1.53	1.42
1	B	2686	G	C3'-O3'	7.27	1.53	1.42
1	B	62	U	C5'-C4'	7.27	1.62	1.51
1	B	2684	U	O5'-C5'	7.27	1.53	1.42
1	B	346	A	C5'-C4'	7.26	1.62	1.51
1	B	764	A	C5'-C4'	7.26	1.62	1.51
1	B	2307	G	C5'-C4'	7.26	1.62	1.51
1	B	1287	A	C5'-C4'	7.26	1.62	1.51
1	B	1730	C	C3'-O3'	7.26	1.53	1.42
1	B	2821	A	O5'-C5'	7.25	1.53	1.42
1	B	548	G	C5'-C4'	7.25	1.62	1.51
1	B	651	G	O5'-C5'	7.25	1.53	1.42
1	B	646	U	C3'-O3'	7.25	1.53	1.42
1	B	1267	U	C5'-C4'	7.24	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1782	U	C3'-O3'	7.24	1.53	1.42
1	B	2552	U	C3'-O3'	7.24	1.53	1.42
1	B	1176	U	C3'-O3'	7.23	1.52	1.42
1	B	2704	C	C3'-O3'	7.23	1.52	1.42
1	B	1127	A	C3'-O3'	7.23	1.52	1.42
1	B	1264	A	C5'-C4'	7.23	1.62	1.51
1	B	1560	G	C5'-C4'	7.23	1.62	1.51
1	B	2272	U	C5'-C4'	7.22	1.62	1.51
1	B	2305	U	C5'-C4'	7.22	1.62	1.51
1	B	1047	G	O5'-C5'	7.22	1.53	1.42
1	B	1801	A	C3'-O3'	7.21	1.52	1.42
1	B	2375	G	C3'-O3'	7.21	1.52	1.42
1	B	2199	A	C5'-C4'	7.21	1.62	1.51
1	B	2823	A	C5'-C4'	7.20	1.62	1.51
1	B	1365	A	C3'-O3'	7.19	1.52	1.42
1	B	2585	U	C5'-C4'	7.19	1.62	1.51
1	B	2757	A	C5'-C4'	7.19	1.62	1.51
1	B	2685	G	C3'-O3'	7.17	1.52	1.42
1	B	160	A	C5'-C4'	7.17	1.62	1.51
1	B	2529	G	C3'-O3'	7.17	1.52	1.42
1	B	2021	C	O5'-C5'	7.17	1.53	1.42
1	B	125	A	C3'-O3'	7.17	1.52	1.42
1	B	1390	U	C3'-O3'	7.17	1.52	1.42
1	B	240	C	C3'-O3'	7.16	1.52	1.42
1	B	83	A	C3'-O3'	7.16	1.52	1.42
1	B	642	U	C5'-C4'	7.16	1.61	1.51
1	B	1872	A	C3'-O3'	7.16	1.52	1.42
1	B	164	C	C3'-O3'	7.15	1.52	1.42
1	B	2748	A	C3'-O3'	7.15	1.52	1.42
1	B	615	U	C3'-O3'	7.14	1.52	1.42
1	B	792	A	C3'-O3'	7.14	1.52	1.42
1	B	958	U	C5'-C4'	7.14	1.61	1.51
1	B	189	G	O5'-C5'	7.14	1.53	1.42
1	B	575	A	C3'-O3'	7.14	1.52	1.42
1	B	2366	A	C5'-C4'	7.14	1.61	1.51
1	B	2614	A	C5'-C4'	7.13	1.61	1.51
1	B	972	A	C1'-N9	7.13	1.58	1.48
1	B	1438	U	C5'-C4'	7.13	1.61	1.51
1	B	1701	A	C5'-C4'	7.13	1.61	1.51
1	B	458	G	C5'-C4'	7.13	1.61	1.51
1	B	1916	A	C3'-O3'	7.13	1.52	1.42
1	B	1493	C	C3'-O3'	7.12	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	483	A	O5'-C5'	7.12	1.53	1.42
1	B	1728	C	C5'-C4'	7.12	1.61	1.51
1	B	2169	A	C3'-O3'	7.12	1.52	1.42
1	B	545	U	C3'-O3'	7.12	1.52	1.42
1	B	2306	C	C3'-O3'	7.12	1.52	1.42
1	B	401	A	C5'-C4'	7.12	1.61	1.51
1	B	984	A	C5'-C4'	7.12	1.61	1.51
1	B	819	A	C3'-O3'	7.11	1.52	1.42
1	B	2273	A	C5'-C4'	7.11	1.61	1.51
1	B	1456	G	C5'-C4'	7.11	1.61	1.51
1	B	2564	A	C5'-C4'	7.11	1.61	1.51
1	B	1808	A	C5'-C4'	7.11	1.61	1.51
1	B	90	U	O5'-C5'	7.10	1.53	1.42
1	B	385	C	C5'-C4'	7.10	1.61	1.51
1	B	2252	G	C5'-C4'	7.10	1.61	1.51
1	B	2687	U	C3'-O3'	7.09	1.52	1.42
1	B	248	G	C3'-O3'	7.09	1.52	1.42
1	B	390	U	C3'-O3'	7.09	1.52	1.42
1	B	995	C	C3'-O3'	7.09	1.52	1.42
1	B	2359	C	C3'-O3'	7.09	1.52	1.42
1	B	2034	U	C3'-O3'	7.09	1.52	1.42
1	B	2858	C	C5'-C4'	7.09	1.61	1.51
1	B	2755	C	C3'-O3'	7.08	1.52	1.42
1	B	1584	U	C3'-O3'	7.08	1.52	1.42
1	B	102	U	O5'-C5'	7.08	1.53	1.42
1	B	735	A	O5'-C5'	7.08	1.53	1.42
1	B	1679	A	O5'-C5'	7.07	1.53	1.42
1	B	1723	G	C5'-C4'	7.07	1.61	1.51
1	B	1888	G	C3'-O3'	7.07	1.52	1.42
1	B	725	G	C5'-C4'	7.07	1.61	1.51
1	B	1525	A	C5'-C4'	7.07	1.61	1.51
1	B	2602	A	C5'-C4'	7.06	1.61	1.51
1	B	2031	A	C3'-O3'	7.06	1.52	1.42
1	B	510	C	C5'-C4'	7.06	1.61	1.51
1	B	1372	U	C5'-C4'	7.06	1.61	1.51
1	B	887	U	C3'-O3'	7.06	1.52	1.42
1	B	2844	G	O5'-C5'	7.05	1.53	1.42
1	B	469	G	C5'-C4'	7.05	1.61	1.51
1	B	957	C	C5'-C4'	7.04	1.61	1.51
1	B	120	U	C3'-O3'	7.04	1.56	1.42
1	B	2565	A	C3'-O3'	7.04	1.52	1.42
1	B	568	U	O5'-C5'	7.03	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	112	U	O5'-C5'	7.03	1.52	1.42
1	B	900	A	C5'-C4'	7.03	1.61	1.51
1	B	2546	U	O3'-P	7.03	1.71	1.61
1	B	677	A	C5'-C4'	7.03	1.61	1.51
1	B	2824	C	C5'-C4'	7.03	1.61	1.51
1	B	2821	A	C3'-O3'	7.02	1.52	1.42
1	B	931	U	C3'-O3'	7.02	1.52	1.42
1	B	2272	U	C3'-O3'	7.02	1.52	1.42
1	B	2482	A	C3'-O3'	7.01	1.52	1.42
1	B	956	G	C5'-C4'	7.01	1.61	1.51
1	B	1731	G	C3'-O3'	7.01	1.52	1.42
1	B	1780	A	C5'-C4'	7.01	1.61	1.51
1	B	2162	G	C3'-O3'	7.01	1.52	1.42
1	B	310	A	C5'-C4'	7.01	1.61	1.51
1	B	1784	A	C5'-C4'	7.00	1.61	1.51
1	B	612	G	C5'-C4'	7.00	1.61	1.51
1	B	2273	A	C3'-O3'	7.00	1.52	1.42
1	B	453	A	C3'-O3'	7.00	1.52	1.42
1	B	1373	A	C3'-O3'	7.00	1.52	1.42
1	B	727	A	C5'-C4'	7.00	1.61	1.51
1	B	2352	A	C3'-O3'	6.99	1.52	1.42
1	B	2806	C	C3'-O3'	6.99	1.52	1.42
1	B	643	A	C3'-O3'	6.99	1.52	1.42
1	B	1606	C	C5'-C4'	6.99	1.61	1.51
1	B	561	G	C3'-O3'	6.98	1.52	1.42
1	B	608	A	C3'-O3'	6.97	1.52	1.42
1	B	2130	U	C3'-O3'	6.97	1.52	1.42
1	B	2163	A	C5'-C4'	6.97	1.61	1.51
1	B	2267	A	C3'-O3'	6.97	1.52	1.42
1	B	307	G	C3'-O3'	6.96	1.52	1.42
1	B	2704	C	C5'-C4'	6.96	1.61	1.51
1	B	1493	C	C5'-C4'	6.96	1.61	1.51
1	B	127	A	C5'-C4'	6.96	1.61	1.51
1	B	728	G	C5'-C4'	6.96	1.61	1.51
1	B	2713	U	C5'-C4'	6.95	1.61	1.51
1	B	1426	G	O5'-C5'	6.95	1.52	1.42
1	B	2146	C	C3'-O3'	6.94	1.52	1.42
1	B	387	U	C3'-O3'	6.94	1.52	1.42
1	B	463	G	C3'-O3'	6.94	1.52	1.42
1	B	717	C	C3'-O3'	6.94	1.52	1.42
1	B	100	U	C3'-O3'	6.94	1.52	1.42
1	B	1560	G	C3'-O3'	6.94	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2439	A	C3'-O3'	6.93	1.52	1.42
1	B	613	A	C3'-O3'	6.93	1.52	1.42
1	B	372	G	C3'-O3'	6.93	1.52	1.42
1	B	1762	A	C5'-C4'	6.93	1.61	1.51
1	B	2014	A	C3'-O3'	6.93	1.52	1.42
1	B	179	C	C5'-C4'	6.92	1.61	1.51
1	B	1544	A	C5'-C4'	6.92	1.61	1.51
1	B	2308	G	C3'-O3'	6.92	1.52	1.42
1	B	2750	A	C5'-C4'	6.92	1.61	1.51
1	B	2440	C	C5'-C4'	6.91	1.61	1.51
1	B	627	A	O5'-C5'	6.91	1.52	1.42
1	B	981	A	C5'-C4'	6.91	1.61	1.51
1	B	779	U	C3'-O3'	6.90	1.52	1.42
1	B	2351	G	C5'-C4'	6.89	1.61	1.51
1	B	1698	A	C5'-C4'	6.89	1.61	1.51
1	B	463	G	C5'-C4'	6.88	1.61	1.51
1	B	1740	G	O5'-C5'	6.88	1.52	1.42
1	B	1189	A	C5'-C4'	6.88	1.61	1.51
1	B	161	A	C5'-C4'	6.88	1.61	1.51
1	B	165	A	C3'-O3'	6.88	1.52	1.42
1	B	1251	C	C5'-C4'	6.87	1.61	1.51
1	B	706	A	O5'-C5'	6.87	1.52	1.42
1	B	1132	U	C3'-O3'	6.86	1.52	1.42
1	B	791	C	C5'-C4'	6.86	1.61	1.51
1	B	1008	A	C5'-C4'	6.85	1.61	1.51
1	B	906	U	C5'-C4'	6.85	1.61	1.51
1	B	1155	A	C5'-C4'	6.85	1.61	1.51
1	B	1285	A	C5'-C4'	6.85	1.61	1.51
1	B	2584	U	C3'-O3'	6.85	1.52	1.42
1	B	480	A	C3'-O3'	6.84	1.52	1.42
1	B	830	G	C3'-O3'	6.84	1.52	1.42
1	B	1536	C	C3'-O3'	6.84	1.52	1.42
1	B	1024	G	O5'-C5'	6.83	1.52	1.42
1	B	1839	G	C3'-O3'	6.83	1.52	1.42
1	B	2032	G	C3'-O3'	6.83	1.52	1.42
1	B	2358	A	C3'-O3'	6.83	1.52	1.42
1	B	1453	A	C5'-C4'	6.82	1.61	1.51
1	B	1586	A	O5'-C5'	6.82	1.52	1.42
1	B	1838	C	C5'-C4'	6.82	1.61	1.51
1	B	2244	U	C3'-O3'	6.82	1.52	1.42
1	B	2529	G	C5'-C4'	6.82	1.61	1.51
1	B	676	A	C5'-C4'	6.82	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1326	U	O5'-C5'	6.82	1.52	1.42
1	B	2131	U	C3'-O3'	6.82	1.52	1.42
1	B	805	G	C3'-O3'	6.81	1.52	1.42
1	B	2274	A	C5'-C4'	6.81	1.61	1.51
1	B	2051	A	O5'-C5'	6.80	1.52	1.42
1	B	827	U	C5'-C4'	6.80	1.61	1.51
1	B	2688	G	C5'-C4'	6.80	1.61	1.51
1	B	1885	A	O5'-C5'	6.79	1.52	1.42
1	B	482	A	C3'-O3'	6.79	1.52	1.42
1	B	981	A	C3'-O3'	6.78	1.52	1.42
1	B	2533	U	C3'-O3'	6.78	1.52	1.42
1	B	1255	U	C3'-O3'	6.78	1.52	1.42
1	B	511	U	C5'-C4'	6.78	1.61	1.51
1	B	2082	A	C3'-O3'	6.78	1.52	1.42
1	B	2867	G	C5'-C4'	6.77	1.61	1.51
1	B	942	G	C3'-O3'	6.77	1.52	1.42
1	B	1783	A	C3'-O3'	6.76	1.52	1.42
1	B	2391	G	C3'-O3'	6.76	1.52	1.42
1	B	1203	U	C3'-O3'	6.76	1.52	1.42
1	B	845	A	O5'-C5'	6.75	1.52	1.42
1	B	2868	A	C5'-C4'	6.75	1.61	1.51
1	B	2724	U	O5'-C5'	6.75	1.52	1.42
1	B	501	A	C5'-C4'	6.74	1.61	1.51
1	B	277	G	O5'-C5'	6.73	1.52	1.42
1	B	749	A	C3'-O3'	6.73	1.52	1.42
1	B	932	U	C3'-O3'	6.73	1.52	1.42
1	B	2132	U	C5'-C4'	6.73	1.61	1.51
1	B	528	A	C3'-O3'	6.73	1.52	1.42
1	B	906	U	C3'-O3'	6.72	1.52	1.42
1	B	138	U	C3'-O3'	6.71	1.52	1.42
1	B	10	A	C3'-O3'	6.71	1.52	1.42
1	B	332	A	C3'-O3'	6.71	1.52	1.42
1	B	1582	C	C5'-C4'	6.71	1.61	1.51
1	B	2904	U	C3'-O3'	6.71	1.52	1.42
1	B	160	A	C3'-O3'	6.70	1.52	1.42
1	B	1154	G	C3'-O3'	6.70	1.52	1.42
1	B	1496	A	C3'-O3'	6.70	1.52	1.42
1	B	1579	A	C3'-O3'	6.70	1.52	1.42
1	B	807	U	C5'-C4'	6.70	1.61	1.51
1	B	196	A	C5'-C4'	6.69	1.61	1.51
1	B	1802	A	C5'-C4'	6.69	1.61	1.51
1	B	725	G	C3'-O3'	6.68	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	713	G	C3'-O3'	6.68	1.52	1.42
1	B	529	A	C3'-O3'	6.67	1.52	1.42
1	B	1869	G	C5'-C4'	6.67	1.61	1.51
1	B	2566	A	C3'-O3'	6.67	1.52	1.42
1	B	1761	C	C5'-C4'	6.67	1.61	1.51
1	B	227	A	C5'-C4'	6.66	1.61	1.51
1	B	1889	A	C5'-C4'	6.66	1.61	1.51
1	B	384	A	C3'-O3'	6.66	1.52	1.42
1	B	619	G	C5'-C4'	6.66	1.61	1.51
1	B	2265	U	C3'-O3'	6.66	1.52	1.42
1	B	499	U	O5'-C5'	6.65	1.52	1.42
1	B	1032	A	C3'-O3'	6.65	1.52	1.42
1	B	2682	A	C5'-C4'	6.65	1.61	1.51
1	B	1021	A	C5'-C4'	6.65	1.61	1.51
1	B	1954	G	C3'-O3'	6.64	1.52	1.42
1	B	2117	A	C5'-C4'	6.63	1.61	1.51
1	B	2721	A	C3'-O3'	6.63	1.52	1.42
1	B	1858	A	O5'-C5'	6.62	1.52	1.42
1	B	2158	A	C5'-C4'	6.62	1.61	1.51
1	B	2356	U	C3'-O3'	6.62	1.52	1.42
1	B	2210	U	O5'-C5'	6.62	1.52	1.42
1	B	2393	U	C5'-C4'	6.62	1.61	1.51
1	B	1022	G	O5'-C5'	6.61	1.52	1.42
1	B	1963	U	C5'-C4'	6.61	1.61	1.51
1	B	509	C	C3'-O3'	6.61	1.52	1.42
1	B	2058	A	C3'-O3'	6.61	1.52	1.42
1	B	2012	G	O5'-C5'	6.60	1.52	1.42
1	B	1266	G	C3'-O3'	6.59	1.52	1.42
1	B	2789	C	C3'-O3'	6.59	1.52	1.42
1	B	788	A	O5'-C5'	6.59	1.52	1.42
1	B	2562	U	O5'-C5'	6.58	1.52	1.42
1	B	1871	A	C3'-O3'	6.57	1.52	1.42
1	B	1653	G	C5'-C4'	6.57	1.61	1.51
1	B	2810	A	O5'-C5'	6.57	1.52	1.42
1	B	1359	A	C5'-C4'	6.57	1.61	1.51
1	B	1142	A	C5'-C4'	6.56	1.61	1.51
1	B	1544	A	C3'-O3'	6.56	1.51	1.42
1	B	1418	G	C3'-O3'	6.55	1.51	1.42
1	B	1522	A	C5'-C4'	6.55	1.61	1.51
1	B	532	A	C5'-C4'	6.54	1.61	1.51
1	B	1309	G	C3'-O3'	6.54	1.51	1.42
1	B	124	G	C3'-O3'	6.54	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	227	A	C3'-O3'	6.53	1.51	1.42
1	B	632	A	C3'-O3'	6.53	1.51	1.42
1	B	2872	A	O5'-C5'	6.53	1.52	1.42
1	B	443	A	C5'-C4'	6.51	1.61	1.51
1	B	1287	A	C3'-O3'	6.51	1.51	1.42
1	B	2357	G	C3'-O3'	6.50	1.51	1.42
1	B	2020	A	O5'-C5'	6.49	1.52	1.42
1	B	982	C	C5'-C4'	6.49	1.60	1.51
1	B	13	A	C3'-O3'	6.48	1.51	1.42
1	B	2869	G	C3'-O3'	6.47	1.51	1.42
1	B	489	G	C5'-C4'	6.47	1.60	1.51
1	B	1745	A	C5'-C4'	6.47	1.60	1.51
1	B	1286	A	C3'-O3'	6.45	1.51	1.42
1	B	2629	U	O5'-C5'	6.44	1.52	1.42
1	B	2531	A	C3'-O3'	6.42	1.51	1.42
1	B	479	A	O5'-C5'	6.42	1.52	1.42
1	B	1817	G	C3'-O3'	6.42	1.51	1.42
1	B	1458	U	C3'-O3'	6.42	1.51	1.42
1	B	1459	G	C5'-C4'	6.41	1.60	1.51
1	B	2871	U	C3'-O3'	6.41	1.51	1.42
1	B	846	U	C3'-O3'	6.40	1.51	1.42
1	B	2167	U	C3'-O3'	6.40	1.51	1.42
1	B	1468	U	O5'-C5'	6.38	1.52	1.42
1	B	1807	G	C3'-O3'	6.38	1.51	1.42
1	B	2298	A	O5'-C5'	6.37	1.52	1.42
1	B	575	A	C5'-C4'	6.36	1.60	1.51
1	B	2554	U	O5'-C5'	6.36	1.51	1.42
1	B	2502	G	C3'-O3'	6.36	1.51	1.42
1	B	865	C	C5'-C4'	6.35	1.60	1.51
1	B	391	A	C3'-O3'	6.35	1.51	1.42
1	B	1263	U	C3'-O3'	6.34	1.51	1.42
1	B	243	U	C3'-O3'	6.33	1.51	1.42
1	B	388	G	C3'-O3'	6.33	1.51	1.42
1	B	2424	C	O5'-C5'	6.32	1.51	1.42
1	B	959	A	C3'-O3'	6.31	1.51	1.42
1	B	577	G	C3'-O3'	6.31	1.51	1.42
1	B	125	A	C5'-C4'	6.31	1.60	1.51
1	B	1690	A	C3'-O3'	6.30	1.51	1.42
1	B	572	A	C5'-C4'	6.30	1.60	1.51
1	B	2252	G	C3'-O3'	6.30	1.51	1.42
1	B	1457	U	C3'-O3'	6.29	1.51	1.42
1	B	1050	A	O5'-C5'	6.27	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1631	G	C5'-C4'	6.27	1.60	1.51
1	B	2860	A	C3'-O3'	6.26	1.51	1.42
1	B	847	U	O5'-C5'	6.26	1.51	1.42
1	B	1100	C	O3'-P	-6.25	1.51	1.61
1	B	405	U	O5'-C5'	6.24	1.51	1.42
1	B	1739	A	C5'-C4'	6.23	1.60	1.51
1	B	2245	U	C5'-C4'	6.23	1.60	1.51
1	B	918	A	O5'-C5'	6.23	1.51	1.42
1	B	263	G	O5'-C5'	6.23	1.51	1.42
1	B	2134	A	C5'-C4'	6.22	1.60	1.51
1	B	1023	U	O5'-C5'	6.21	1.51	1.42
1	B	1951	U	O5'-C5'	6.21	1.52	1.42
1	B	1301	A	O5'-C5'	6.21	1.51	1.42
1	B	2873	A	O5'-C5'	6.20	1.51	1.42
1	B	863	A	C3'-O3'	6.19	1.51	1.42
1	B	2563	U	C5'-C4'	6.18	1.60	1.51
1	B	1937	A	O5'-C5'	6.18	1.51	1.42
1	B	878	A	O5'-C5'	6.17	1.51	1.42
1	B	1454	C	C3'-O3'	6.17	1.51	1.42
1	B	1311	G	O5'-C5'	6.17	1.51	1.42
1	B	497	A	O5'-C5'	6.15	1.51	1.42
1	B	1720	U	C5'-C4'	6.15	1.60	1.51
1	B	2115	G	C3'-O3'	6.14	1.51	1.42
1	B	269	C	O5'-C5'	6.14	1.51	1.42
1	B	1691	C	C5'-C4'	6.14	1.60	1.51
1	B	2755	C	C5'-C4'	6.13	1.60	1.51
1	B	1392	A	C3'-O3'	6.13	1.51	1.42
1	B	141	G	C3'-O3'	6.13	1.51	1.42
1	B	807	U	C3'-O3'	6.12	1.51	1.42
1	B	571	U	C3'-O3'	6.12	1.51	1.42
1	B	1282	U	C5'-C4'	6.11	1.60	1.51
1	B	1134	A	O5'-C5'	6.10	1.51	1.42
1	B	1722	A	C3'-O3'	6.10	1.51	1.42
1	B	2360	G	C3'-O3'	6.09	1.51	1.42
1	B	2754	U	C5'-C4'	6.09	1.60	1.51
1	B	2422	C	O5'-C5'	6.09	1.51	1.42
1	B	1652	A	C3'-O3'	6.08	1.51	1.42
1	B	1996	C	C5'-C4'	6.08	1.60	1.51
1	B	1559	U	C3'-O3'	6.08	1.51	1.42
1	B	979	A	C5'-C4'	6.07	1.60	1.51
1	B	1242	U	O5'-C5'	6.06	1.51	1.42
1	B	221	A	C3'-O3'	6.06	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	565	C	O5'-C5'	6.04	1.51	1.42
1	B	1672	A	O5'-C5'	6.04	1.51	1.42
1	B	920	A	O5'-C5'	6.03	1.51	1.42
1	B	836	G	C3'-O3'	6.03	1.51	1.42
1	B	1379	U	C3'-O3'	6.02	1.51	1.42
1	B	1	G	OP3-P	6.02	1.60	1.48
1	B	1545	A	C3'-O3'	6.02	1.51	1.42
1	B	2378	A	C5'-C4'	6.01	1.60	1.51
1	B	1130	U	C5'-C4'	6.00	1.60	1.51
1	B	33	C	C3'-O3'	5.99	1.51	1.42
1	B	460	A	C5'-C4'	5.99	1.60	1.51
1	B	1579	A	O5'-C5'	5.99	1.51	1.42
1	B	1635	A	C5'-C4'	5.97	1.60	1.51
1	B	2131	U	C5'-C4'	5.97	1.60	1.51
1	B	1673	G	C5'-C4'	5.96	1.60	1.51
1	B	859	G	C3'-O3'	-5.96	1.33	1.42
1	B	1680	U	C3'-O3'	5.96	1.51	1.42
1	B	340	A	C3'-O3'	5.95	1.51	1.42
1	B	1859	U	C5'-C4'	5.95	1.60	1.51
1	B	1759	A	C3'-O3'	5.95	1.51	1.42
1	B	453	A	O5'-C5'	5.94	1.51	1.42
1	B	1372	U	C3'-O3'	5.90	1.50	1.42
1	B	956	G	C3'-O3'	5.89	1.50	1.42
1	B	2722	G	C5'-C4'	5.89	1.60	1.51
1	B	2335	A	O5'-C5'	5.89	1.51	1.42
1	B	2885	G	C3'-O3'	5.89	1.50	1.42
1	B	2566	A	C5'-C4'	5.88	1.60	1.51
1	B	117	G	O5'-C5'	5.88	1.51	1.42
1	B	2365	G	O5'-C5'	5.85	1.51	1.42
1	B	203	A	C5'-C4'	5.84	1.60	1.51
1	B	890	C	C3'-O3'	5.84	1.50	1.42
1	B	1715	G	C3'-O3'	5.84	1.50	1.42
1	B	537	G	C5'-C4'	5.83	1.59	1.51
1	B	2426	A	O5'-C5'	5.83	1.51	1.42
1	B	2170	A	C3'-O3'	5.83	1.50	1.42
1	B	254	G	O5'-C5'	5.80	1.51	1.42
1	B	1197	G	O5'-C5'	5.79	1.51	1.42
1	B	9	G	O5'-C5'	5.77	1.51	1.42
1	B	279	A	O5'-C5'	5.77	1.51	1.42
1	B	1384	A	C3'-O3'	5.76	1.50	1.42
1	B	1925	C	O5'-C5'	5.76	1.51	1.42
1	B	864	G	C3'-O3'	5.76	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1358	G	C3'-O3'	5.76	1.50	1.42
1	B	2167	U	O5'-C5'	5.73	1.51	1.42
1	B	14	A	O5'-C5'	5.72	1.51	1.42
1	B	567	U	O5'-C5'	5.71	1.51	1.42
1	B	2847	U	C3'-O3'	5.70	1.50	1.42
1	B	821	A	O5'-C5'	5.70	1.51	1.42
1	B	2608	G	O5'-C5'	5.69	1.50	1.42
1	B	913	U	O5'-C5'	5.69	1.50	1.42
1	B	213	A	C3'-O3'	5.69	1.50	1.42
1	B	2752	C	O5'-C5'	5.66	1.50	1.42
1	B	183	C	O5'-C5'	5.64	1.50	1.42
1	B	2607	G	O5'-C5'	5.64	1.50	1.42
1	B	2726	A	O5'-C5'	5.64	1.50	1.42
1	B	1438	U	C3'-O3'	5.63	1.50	1.42
1	B	1102	C	O3'-P	-5.62	1.52	1.61
1	B	1543	G	O5'-C5'	5.62	1.50	1.42
1	B	2627	G	O5'-C5'	5.62	1.50	1.42
1	B	2688	G	C3'-O3'	5.62	1.50	1.42
1	B	1936	A	O5'-C5'	5.61	1.50	1.42
1	B	2675	A	C5'-C4'	5.61	1.59	1.51
1	B	199	A	C3'-O3'	5.60	1.50	1.42
1	B	2757	A	C3'-O3'	5.59	1.50	1.42
1	B	2497	A	C5'-C4'	5.58	1.59	1.51
1	B	1321	A	O5'-C5'	5.57	1.50	1.42
1	B	1020	A	O5'-C5'	5.56	1.50	1.42
1	B	1953	A	C5'-C4'	5.56	1.59	1.51
1	B	569	U	O5'-C5'	5.55	1.50	1.42
1	B	2477	U	C3'-O3'	5.53	1.50	1.42
1	B	811	U	O5'-C5'	5.52	1.50	1.42
1	B	1371	G	C3'-O3'	5.51	1.50	1.42
1	B	1570	A	O5'-C5'	5.51	1.50	1.42
1	B	1329	U	C3'-O3'	5.50	1.50	1.42
1	B	1283	G	C5'-C4'	5.49	1.59	1.51
1	B	1545	A	O5'-C5'	5.49	1.50	1.42
1	B	1614	A	C3'-O3'	5.47	1.50	1.42
1	B	1100	C	C4'-C3'	-5.47	1.44	1.52
1	B	1937	A	C3'-O3'	5.47	1.50	1.42
1	B	2467	C	O5'-C5'	5.47	1.50	1.42
1	B	180	G	O5'-C5'	5.45	1.50	1.42
1	B	1521	G	O5'-C5'	5.45	1.50	1.42
1	B	1274	A	C3'-O3'	5.45	1.51	1.43
1	B	1646	C	O5'-C5'	5.43	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1021	A	C3'-O3'	5.43	1.50	1.42
1	B	362	A	C3'-O3'	5.43	1.50	1.42
1	B	1738	G	C3'-O3'	5.42	1.50	1.42
1	B	1800	C	O5'-C5'	5.42	1.50	1.42
1	B	1962	C	O5'-C5'	5.42	1.50	1.42
1	B	1007	C	C5'-C4'	5.38	1.59	1.51
1	B	675	A	O5'-C5'	5.34	1.50	1.42
1	B	2061	G	O5'-C5'	5.34	1.50	1.42
1	B	1940	U	O5'-C5'	5.34	1.50	1.42
1	B	1647	U	O5'-C5'	5.34	1.50	1.42
1	B	931	U	O5'-C5'	5.33	1.50	1.42
1	B	2287	A	O5'-C5'	5.32	1.50	1.42
1	B	214	G	O5'-C5'	5.32	1.50	1.42
1	B	374	A	O5'-C5'	5.31	1.50	1.42
1	B	1926	U	O5'-C5'	5.30	1.50	1.42
1	B	2423	U	O5'-C5'	5.30	1.50	1.42
1	B	2834	G	C3'-O3'	5.29	1.50	1.42
1	B	1007	C	C3'-O3'	5.28	1.50	1.42
1	B	1613	G	O5'-C5'	5.27	1.50	1.42
1	B	800	A	O5'-C5'	5.26	1.50	1.42
1	B	1045	C	O5'-C5'	5.25	1.50	1.42
1	B	2114	A	C3'-O3'	5.25	1.50	1.42
1	B	1308	A	O5'-C5'	5.23	1.50	1.42
1	B	411	G	O5'-C5'	5.23	1.50	1.42
1	B	1676	A	O5'-C5'	5.22	1.50	1.42
1	B	2452	C	O5'-C5'	5.20	1.50	1.42
1	B	1325	U	O5'-C5'	5.18	1.50	1.42
1	B	1585	C	C3'-O3'	5.17	1.50	1.42
1	B	2808	G	C5'-C4'	5.17	1.59	1.51
1	B	1061	U	C1'-N1	5.16	1.55	1.47
1	B	1582	C	C3'-O3'	5.14	1.49	1.42
1	B	1141	U	C5'-C4'	5.11	1.58	1.51
1	B	2780	G	C5'-C4'	5.10	1.58	1.51
1	B	1288	G	C5'-C4'	5.10	1.58	1.51
1	B	332	A	O5'-C5'	5.08	1.50	1.42
1	B	945	A	C3'-O3'	5.07	1.49	1.42
1	B	149	A	O5'-C5'	5.04	1.50	1.42
1	B	2091	C	O3'-P	5.03	1.68	1.61
1	B	1584	U	C5'-C4'	5.02	1.58	1.51
1	B	280	U	O5'-C5'	5.01	1.50	1.42
1	B	1697	G	O5'-C5'	5.01	1.50	1.42
1	B	626	A	O5'-C5'	5.01	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1064	C	C4'-O4'	-5.01	1.38	1.45
1	B	1608	A	O5'-C5'	5.01	1.50	1.42
1	B	2058	A	O5'-C5'	5.00	1.50	1.42

All (5838) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	396	G	O3'-P-O5'	44.13	170.19	104.00
1	B	913	U	P-O5'-C5'	37.95	177.83	120.90
1	B	2849	U	P-O5'-C5'	37.95	177.83	120.90
1	B	2887	A	P-O5'-C5'	37.75	177.52	120.90
1	B	1680	U	P-O5'-C5'	37.34	176.90	120.90
1	B	1326	U	P-O5'-C5'	37.11	176.56	120.90
1	B	2013	A	P-O5'-C5'	37.11	176.56	120.90
1	B	2872	A	P-O5'-C5'	37.00	176.40	120.90
1	B	877	A	P-O5'-C5'	36.69	175.94	120.90
1	B	362	A	P-O5'-C5'	36.50	175.66	120.90
1	B	2627	G	P-O5'-C5'	36.42	175.53	120.90
1	B	1255	U	P-O5'-C5'	36.27	175.31	120.90
1	B	1046	A	P-O5'-C5'	36.23	175.25	120.90
1	B	2879	A	P-O5'-C5'	36.03	174.95	120.90
1	B	651	G	P-O5'-C5'	35.93	174.79	120.90
1	B	850	U	O3'-P-O5'	-35.78	50.33	104.00
1	B	2501	C	P-O5'-C5'	35.51	174.16	120.90
1	B	51	G	P-O5'-C5'	35.47	174.11	120.90
1	B	99	U	P-O5'-C5'	35.42	174.03	120.90
1	B	1009	A	P-O5'-C5'	35.27	173.81	120.90
1	B	845	A	P-O5'-C5'	35.22	173.72	120.90
1	B	1327	A	P-O5'-C5'	35.19	173.68	120.90
1	B	1872	A	P-O5'-C5'	35.18	173.66	120.90
1	B	2690	U	P-O5'-C5'	34.99	173.38	120.90
1	B	1942	C	C5'-C4'-C3'	34.91	168.36	116.00
1	B	1640	A	P-O5'-C5'	34.90	173.25	120.90
1	B	828	U	P-O5'-C5'	34.86	173.19	120.90
1	B	733	G	P-O5'-C5'	34.81	173.11	120.90
1	B	2686	G	P-O5'-C5'	34.66	172.89	120.90
1	B	361	G	P-O5'-C5'	34.58	172.77	120.90
1	B	2834	G	P-O5'-C5'	34.51	172.67	120.90
1	B	1225	G	P-O5'-C5'	34.50	172.65	120.90
1	B	1814	G	P-O5'-C5'	34.39	172.49	120.90
1	B	1938	A	P-O5'-C5'	34.31	172.36	120.90
1	B	1267	U	P-O5'-C5'	34.29	172.33	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	60	G	P-O5'-C5'	34.25	172.28	120.90
1	B	1427	A	P-O5'-C5'	34.21	172.22	120.90
1	B	2270	A	P-O5'-C5'	34.18	172.16	120.90
1	B	2483	C	P-O5'-C5'	34.05	171.97	120.90
1	B	1856	U	P-O5'-C5'	34.04	171.96	120.90
1	B	447	A	P-O5'-C5'	34.01	171.91	120.90
1	B	863	A	P-O5'-C5'	33.97	171.85	120.90
1	B	1176	U	P-O5'-C5'	33.82	171.63	120.90
1	B	674	G	P-O5'-C5'	33.77	171.55	120.90
1	B	15	G	P-O5'-C5'	33.73	171.49	120.90
1	B	2721	A	P-O5'-C5'	33.71	171.47	120.90
1	B	1810	A	P-O5'-C5'	33.68	171.41	120.90
1	B	251	A	P-O5'-C5'	33.66	171.40	120.90
1	B	932	U	P-O5'-C5'	33.61	171.31	120.90
1	B	1560	G	P-O5'-C5'	33.43	171.05	120.90
1	B	804	A	P-O5'-C5'	33.41	171.02	120.90
1	B	98	G	P-O5'-C5'	33.40	171.00	120.90
1	B	2132	U	P-O5'-C5'	33.14	170.61	120.90
1	B	956	G	P-O5'-C5'	33.08	170.51	120.90
1	B	1469	A	P-O5'-C5'	32.97	170.35	120.90
1	B	1572	A	P-O5'-C5'	32.85	170.18	120.90
1	B	2365	G	P-O5'-C5'	32.84	170.15	120.90
1	B	643	A	P-O5'-C5'	32.61	169.81	120.90
1	B	2629	U	P-O5'-C5'	32.56	169.75	120.90
1	B	2552	U	P-O5'-C5'	32.56	169.74	120.90
1	B	2361	G	P-O5'-C5'	32.46	169.59	120.90
1	B	1934	C	P-O5'-C5'	32.43	169.54	120.90
1	B	1690	A	P-O5'-C5'	32.40	169.50	120.90
1	B	1838	C	P-O5'-C5'	32.39	169.49	120.90
1	B	506	G	P-O5'-C5'	32.35	169.43	120.90
1	B	1675	C	P-O5'-C5'	32.24	169.26	120.90
1	B	1700	A	P-O5'-C5'	32.16	169.14	120.90
1	B	498	G	P-O5'-C5'	32.13	169.10	120.90
1	B	1697	G	P-O5'-C5'	32.08	169.02	120.90
1	B	2051	A	P-O5'-C5'	31.98	168.87	120.90
1	B	2439	A	P-O5'-C5'	31.98	168.87	120.90
1	B	1857	G	P-O5'-C5'	31.92	168.78	120.90
1	B	1404	C	O3'-P-O5'	31.85	151.78	104.00
1	B	1475	G	P-O5'-C5'	31.82	168.62	120.90
1	B	1853	A	P-O5'-C5'	31.69	168.44	120.90
1	B	84	A	P-O5'-C5'	31.67	168.40	120.90
1	B	1044	C	P-O5'-C5'	31.63	168.35	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1730	C	P-O5'-C5'	31.59	168.28	120.90
1	B	675	A	P-O5'-C5'	31.54	168.21	120.90
1	B	2034	U	P-O5'-C5'	31.52	168.17	120.90
1	B	248	G	P-O5'-C5'	31.39	167.98	120.90
1	B	642	U	P-O5'-C5'	31.35	167.92	120.90
1	B	1266	G	P-O5'-C5'	31.31	167.86	120.90
1	B	215	G	P-O5'-C5'	31.24	167.76	120.90
1	B	779	U	P-O5'-C5'	31.24	167.76	120.90
1	B	2325	G	P-O5'-C5'	31.16	167.64	120.90
1	B	631	A	P-O5'-C5'	31.08	167.52	120.90
1	B	1272	A	P-O5'-C5'	31.04	167.46	120.90
1	B	2565	A	P-O5'-C5'	30.95	167.32	120.90
1	B	2130	U	P-O5'-C5'	30.87	167.21	120.90
1	B	2719	G	P-O5'-C5'	30.87	167.20	120.90
1	B	2533	U	P-O5'-C5'	30.86	167.19	120.90
1	B	1839	G	P-O5'-C5'	30.71	166.97	120.90
1	B	1818	U	P-O5'-C5'	30.69	166.94	120.90
1	B	2684	U	P-O5'-C5'	30.57	166.75	120.90
1	B	1759	A	P-O5'-C5'	30.55	166.73	120.90
1	B	529	A	P-O5'-C5'	30.54	166.71	120.90
1	B	2885	G	P-O5'-C5'	30.49	166.63	120.90
1	B	1693	U	P-O5'-C5'	30.44	166.56	120.90
1	B	74	A	O3'-P-O5'	30.39	149.59	104.00
1	B	244	A	P-O5'-C5'	30.38	166.47	120.90
1	B	846	U	P-O5'-C5'	30.35	166.43	120.90
1	B	861	A	P-O5'-C5'	30.35	166.43	120.90
1	B	2022	U	P-O5'-C5'	30.33	166.39	120.90
1	B	435	C	O3'-P-O5'	-30.32	58.52	104.00
1	B	847	U	P-O5'-C5'	30.28	166.31	120.90
1	B	73	A	P-O5'-C5'	30.22	166.22	120.90
1	B	2042	A	P-O5'-C5'	30.21	166.22	120.90
1	B	1528	A	P-O5'-C5'	30.21	166.21	120.90
1	B	975	A	P-O5'-C5'	30.14	166.11	120.90
1	B	239	C	P-O3'-C3'	-30.11	75.03	120.20
1	B	270	A	P-O5'-C5'	30.09	166.04	120.90
1	B	1312	U	P-O5'-C5'	30.03	165.94	120.90
1	B	2809	A	P-O5'-C5'	30.02	165.94	120.90
1	B	177	G	P-O5'-C5'	30.02	165.93	120.90
1	B	2467	C	P-O5'-C5'	29.96	165.84	120.90
1	B	2639	A	P-O5'-C5'	29.88	165.72	120.90
1	B	990	A	O3'-P-O5'	-29.79	59.32	104.00
1	B	1848	A	O3'-P-O5'	-29.69	59.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2272	U	P-O5'-C5'	29.64	165.36	120.90
1	B	1008	A	P-O5'-C5'	29.63	165.35	120.90
1	B	2405	G	P-O5'-C5'	29.60	165.30	120.90
1	B	2237	G	P-O5'-C5'	29.53	165.19	120.90
1	B	752	A	P-O5'-C5'	29.48	165.12	120.90
1	B	669	G	P-O5'-C5'	29.46	165.09	120.90
1	B	1971	U	P-O5'-C5'	29.42	165.03	120.90
1	B	1451	C	P-O5'-C5'	29.41	165.01	120.90
1	B	293	U	O3'-P-O5'	-29.36	59.96	104.00
1	B	1918	A	P-O5'-C5'	29.36	164.94	120.90
1	B	2602	A	P-O5'-C5'	29.34	164.91	120.90
1	B	2226	C	P-O5'-C5'	29.20	164.70	120.90
1	B	2427	C	P-O5'-C5'	29.18	164.67	120.90
1	B	982	C	P-O5'-C5'	29.17	164.66	120.90
1	B	653	U	P-O5'-C5'	29.16	164.65	120.90
1	B	1394	U	P-O5'-C5'	29.15	164.62	120.90
1	B	857	G	P-O5'-C5'	29.13	164.60	120.90
1	B	119	A	P-O5'-C5'	29.11	164.57	120.90
1	B	1737	G	P-O5'-C5'	29.09	164.53	120.90
1	B	483	A	P-O5'-C5'	29.07	164.50	120.90
1	B	614	A	P-O5'-C5'	29.02	164.44	120.90
1	B	1732	C	P-O5'-C5'	29.02	164.43	120.90
1	B	2371	G	P-O5'-C5'	28.98	164.37	120.90
1	B	46	G	P-O5'-C5'	28.96	164.34	120.90
1	B	783	A	P-O5'-C5'	28.95	164.32	120.90
1	B	525	U	P-O5'-C5'	28.90	164.25	120.90
1	B	602	A	P-O5'-C5'	28.88	164.22	120.90
1	B	2376	A	P-O5'-C5'	28.87	164.20	120.90
1	B	1809	A	P-O5'-C5'	28.72	163.99	120.90
1	B	322	A	O3'-P-O5'	28.61	146.91	104.00
1	B	547	A	P-O5'-C5'	28.61	163.81	120.90
1	B	2846	G	P-O5'-C5'	28.58	163.76	120.90
1	B	2563	U	P-O5'-C5'	28.50	163.65	120.90
1	B	2267	A	P-O5'-C5'	28.43	163.54	120.90
1	B	2820	A	P-O5'-C5'	28.41	163.52	120.90
1	B	507	A	P-O5'-C5'	28.40	163.51	120.90
1	B	2287	A	P-O5'-C5'	28.36	163.44	120.90
1	B	1468	U	P-O5'-C5'	28.32	163.37	120.90
1	B	901	C	P-O5'-C5'	28.31	163.37	120.90
1	B	275	C	P-O5'-C5'	28.25	163.27	120.90
1	B	1752	C	P-O5'-C5'	28.20	163.21	120.90
1	B	1664	A	P-O5'-C5'	28.18	163.17	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2275	C	P-O5'-C5'	28.10	163.06	120.90
1	B	603	A	P-O5'-C5'	27.96	162.84	120.90
1	B	776	G	P-O5'-C5'	27.93	162.79	120.90
1	B	339	U	P-O5'-C5'	27.86	162.68	120.90
1	B	2564	A	P-O5'-C5'	27.77	162.55	120.90
1	B	1632	A	P-O5'-C5'	27.76	162.54	120.90
1	B	27	G	P-O5'-C5'	27.75	162.52	120.90
1	B	1396	U	P-O5'-C5'	27.71	162.47	120.90
1	B	2334	U	P-O5'-C5'	27.63	162.34	120.90
1	B	264	C	P-O5'-C5'	27.62	162.34	120.90
1	B	1691	C	P-O5'-C5'	27.58	162.27	120.90
1	B	479	A	P-O5'-C5'	27.57	162.25	120.90
1	B	112	U	P-O5'-C5'	27.53	162.20	120.90
1	B	1885	A	P-O5'-C5'	27.50	162.16	120.90
1	B	2321	U	O3'-P-O5'	27.49	145.24	104.00
1	B	383	C	P-O5'-C5'	27.42	162.04	120.90
1	B	1668	A	P-O5'-C5'	27.34	161.91	120.90
1	B	1175	A	P-O5'-C5'	27.32	161.89	120.90
1	B	141	G	P-O5'-C5'	27.29	161.84	120.90
1	B	2469	A	P-O5'-C5'	27.29	161.84	120.90
1	B	1275	A	P-O5'-C5'	27.29	161.83	120.90
1	B	1328	A	P-O5'-C5'	27.27	161.81	120.90
1	B	103	A	P-O5'-C5'	27.23	161.75	120.90
1	B	2009	A	O3'-P-O5'	-27.21	63.19	104.00
1	B	704	G	P-O5'-C5'	27.18	161.68	120.90
1	B	920	A	P-O5'-C5'	27.10	161.55	120.90
1	B	1721	G	P-O5'-C5'	27.07	161.51	120.90
1	B	1212	G	P-O5'-C5'	27.02	161.42	120.90
1	B	34	U	P-O5'-C5'	27.01	161.42	120.90
1	B	1371	G	P-O5'-C5'	26.98	161.37	120.90
1	B	1308	A	P-O5'-C5'	26.97	161.36	120.90
1	B	2894	G	P-O5'-C5'	26.94	161.31	120.90
1	B	718	A	P-O5'-C5'	26.94	161.30	120.90
1	B	2857	G	P-O5'-C5'	26.93	161.30	120.90
1	B	33	C	P-O5'-C5'	26.91	161.27	120.90
1	B	1252	G	P-O5'-C5'	26.90	161.26	120.90
1	B	1254	A	P-O5'-C5'	26.84	161.17	120.90
1	B	1131	G	P-O5'-C5'	26.83	161.14	120.90
1	B	1855	U	P-O5'-C5'	26.82	161.13	120.90
1	B	223	A	P-O5'-C5'	26.82	161.13	120.90
1	B	1581	G	P-O5'-C5'	26.76	161.03	120.90
1	B	821	A	P-O5'-C5'	26.75	161.02	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1047	G	P-O5'-C5'	26.75	161.02	120.90
1	B	1828	G	P-O5'-C5'	26.70	160.96	120.90
1	B	1155	A	P-O5'-C5'	26.67	160.90	120.90
1	B	1729	U	P-O5'-C5'	26.62	160.83	120.90
1	B	1545	A	C4'-C3'-O3'	26.60	152.89	113.00
1	B	509	C	P-O5'-C5'	26.59	160.78	120.90
1	B	972	A	C4'-C3'-O3'	26.56	152.84	113.00
1	B	1925	C	P-O5'-C5'	26.53	160.70	120.90
1	B	1174	U	P-O5'-C5'	26.53	160.70	120.90
1	B	1515	A	P-O5'-C5'	26.50	160.65	120.90
1	B	1268	A	P-O5'-C5'	26.47	160.61	120.90
1	B	112	U	O3'-P-O5'	26.46	143.69	104.00
1	B	119	A	O3'-P-O5'	26.44	143.67	104.00
1	B	2197	U	P-O5'-C5'	26.44	160.56	120.90
1	B	602	A	C4'-C3'-O3'	26.42	152.63	113.00
1	B	1932	A	P-O5'-C5'	26.41	160.51	120.90
1	B	1928	A	P-O5'-C5'	26.41	160.51	120.90
1	B	1516	G	P-O5'-C5'	26.41	160.51	120.90
1	B	1311	G	P-O5'-C5'	26.38	160.47	120.90
1	B	404	A	P-O5'-C5'	26.36	160.45	120.90
1	B	567	U	P-O5'-C5'	26.30	160.35	120.90
1	B	1989	G	P-O5'-C5'	26.27	160.30	120.90
1	B	575	A	P-O5'-C5'	26.24	160.26	120.90
1	B	219	A	P-O5'-C5'	26.24	160.26	120.90
1	B	1022	G	P-O5'-C5'	26.24	160.26	120.90
1	B	810	U	P-O5'-C5'	26.23	160.24	120.90
1	B	1301	A	P-O5'-C5'	26.18	160.18	120.90
1	B	1226	A	P-O5'-C5'	26.17	160.15	120.90
1	B	644	A	P-O5'-C5'	26.14	160.11	120.90
1	B	102	U	P-O5'-C5'	26.12	160.09	120.90
1	B	538	A	P-O5'-C5'	26.10	160.05	120.90
1	B	196	A	P-O5'-C5'	26.10	160.05	120.90
1	B	2198	A	P-O5'-C5'	26.07	160.01	120.90
1	B	1673	G	P-O5'-C5'	26.06	159.99	120.90
1	B	697	G	P-O3'-C3'	26.04	159.25	120.20
1	B	1586	A	P-O5'-C5'	26.03	159.94	120.90
1	B	2613	U	P-O5'-C5'	25.97	159.85	120.90
1	B	511	U	P-O5'-C5'	25.96	159.84	120.90
1	B	2597	G	P-O5'-C5'	25.94	159.81	120.90
1	B	1598	A	O3'-P-O5'	25.94	142.90	104.00
1	B	1615	C	P-O5'-C5'	25.93	159.80	120.90
1	B	2311	A	P-O5'-C5'	25.93	159.79	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	699	A	P-O5'-C5'	25.91	159.77	120.90
1	B	460	A	P-O5'-C5'	25.91	159.76	120.90
1	B	2504	U	P-O5'-C5'	25.90	159.74	120.90
1	B	117	G	P-O5'-C5'	25.89	159.74	120.90
1	B	1029	A	P-O5'-C5'	25.87	159.71	120.90
1	B	1133	A	P-O5'-C5'	25.86	159.69	120.90
1	B	1344	U	O3'-P-O5'	-25.86	65.21	104.00
1	B	2870	C	P-O5'-C5'	25.84	159.66	120.90
1	B	2144	G	P-O5'-C5'	25.81	159.61	120.90
1	B	1856	U	O5'-C5'-C4'	25.79	150.19	111.50
1	B	1568	G	P-O5'-C5'	25.77	159.55	120.90
1	B	1241	A	P-O5'-C5'	25.75	159.53	120.90
1	B	2224	G	P-O5'-C5'	25.75	159.52	120.90
1	B	2740	A	P-O5'-C5'	25.70	159.46	120.90
1	B	1132	U	P-O5'-C5'	25.70	159.45	120.90
1	B	1125	G	P-O5'-C5'	25.65	159.38	120.90
1	B	2798	U	P-O5'-C5'	25.59	159.28	120.90
1	B	149	A	P-O5'-C5'	25.58	159.27	120.90
1	B	324	A	O3'-P-O5'	-25.58	65.63	104.00
1	B	1476	U	P-O5'-C5'	25.57	159.26	120.90
1	B	1466	U	P-O5'-C5'	25.56	159.24	120.90
1	B	453	A	P-O5'-C5'	25.54	159.21	120.90
1	B	2705	A	P-O5'-C5'	25.54	159.21	120.90
1	B	1815	A	P-O5'-C5'	25.51	159.16	120.90
1	B	757	G	O3'-P-O5'	-25.49	65.76	104.00
1	B	2374	C	P-O3'-C3'	-25.49	81.97	120.20
1	B	615	U	P-O5'-C5'	25.44	159.06	120.90
1	B	130	C	O3'-P-O5'	-25.36	65.96	104.00
1	B	2145	C	P-O5'-C5'	25.36	158.93	120.90
1	B	1455	G	P-O5'-C5'	25.34	158.91	120.90
1	B	449	A	P-O5'-C5'	25.34	158.91	120.90
1	B	577	G	P-O5'-C5'	25.34	158.90	120.90
1	B	989	G	P-O5'-C5'	25.33	158.89	120.90
1	B	28	A	C4'-C3'-O3'	25.32	150.98	113.00
1	B	139	U	P-O5'-C5'	25.30	158.85	120.90
1	B	1116	G	O3'-P-O5'	-25.28	66.09	104.00
1	B	1971	U	O5'-C5'-C4'	25.27	149.41	111.50
1	B	2799	A	P-O5'-C5'	25.26	158.78	120.90
1	B	751	A	P-O5'-C5'	25.19	158.69	120.90
1	B	71	A	O5'-C5'-C4'	25.17	149.26	111.50
1	B	1816	C	P-O5'-C5'	25.10	158.55	120.90
1	B	2068	U	C5'-C4'-O4'	-25.08	72.18	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	446	G	P-O5'-C5'	25.08	158.52	120.90
1	B	1470	A	P-O5'-C5'	25.05	158.48	120.90
1	B	1140	C	P-O5'-C5'	25.05	158.47	120.90
1	B	2213	U	P-O5'-C5'	25.04	158.46	120.90
1	B	1852	U	P-O5'-C5'	25.02	158.44	120.90
1	B	1971	U	C5'-C4'-C3'	25.02	153.54	116.00
1	B	2016	U	P-O5'-C5'	25.01	158.42	120.90
1	B	1941	C	P-O5'-C5'	25.01	158.41	120.90
1	B	2076	U	O3'-P-O5'	-25.00	66.50	104.00
1	B	181	A	P-O5'-C5'	24.98	158.37	120.90
1	B	609	A	P-O5'-C5'	24.97	158.36	120.90
1	B	1490	A	P-O5'-C5'	24.96	158.35	120.90
1	B	2556	C	O3'-P-O5'	-24.94	66.59	104.00
1	B	2835	A	P-O5'-C5'	24.86	158.20	120.90
1	B	320	A	P-O5'-C5'	24.85	158.17	120.90
1	B	1606	C	P-O5'-C5'	24.82	158.14	120.90
1	B	565	C	P-O5'-C5'	24.81	158.12	120.90
1	B	588	U	P-O5'-C5'	24.81	158.11	120.90
1	B	2147	A	P-O5'-C5'	24.80	158.09	120.90
1	B	26	G	P-O5'-C5'	24.79	158.09	120.90
1	B	764	A	C4'-C3'-O3'	-24.79	75.82	113.00
1	B	1962	C	P-O5'-C5'	24.78	158.07	120.90
1	B	1040	A	P-O5'-C5'	24.76	158.04	120.90
1	B	298	G	P-O5'-C5'	24.71	157.97	120.90
1	B	1965	C	P-O5'-C5'	24.68	157.92	120.90
1	B	2846	G	C5'-C4'-O4'	24.53	146.59	109.80
1	B	645	C	P-O5'-C5'	24.50	157.65	120.90
1	B	1694	C	P-O5'-C5'	24.49	157.63	120.90
1	B	1604	C	P-O5'-C5'	24.47	157.61	120.90
1	B	52	A	C4'-C3'-O3'	24.38	149.57	113.00
1	B	1857	G	O5'-C5'-C4'	24.36	148.03	111.50
1	B	1327	A	O5'-C5'-C4'	24.34	148.01	111.50
1	B	2821	A	P-O5'-C5'	24.32	157.38	120.90
1	B	1286	A	P-O5'-C5'	24.24	157.26	120.90
1	B	762	U	P-O5'-C5'	24.21	157.21	120.90
1	B	428	A	P-O5'-C5'	24.14	157.10	120.90
1	B	1135	C	P-O5'-C5'	24.13	157.09	120.90
1	B	890	C	P-O5'-C5'	24.12	157.08	120.90
1	B	2749	A	P-O5'-C5'	24.10	157.05	120.90
1	B	713	G	P-O5'-C5'	24.04	156.96	120.90
1	B	888	C	P-O5'-C5'	24.01	156.91	120.90
1	B	1023	U	P-O5'-C5'	24.01	156.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1418	G	P-O5'-C5'	23.99	156.89	120.90
1	B	782	A	P-O5'-C5'	23.99	156.88	120.90
1	B	497	A	P-O5'-C5'	23.98	156.87	120.90
1	B	805	G	P-O5'-C5'	23.97	156.85	120.90
1	B	2583	G	P-O5'-C5'	23.97	156.85	120.90
1	B	1546	G	P-O5'-C5'	23.96	156.84	120.90
1	B	602	A	O5'-C5'-C4'	23.87	147.30	111.50
1	B	324	A	P-O3'-C3'	23.81	155.91	120.20
1	B	1992	G	P-O5'-C5'	23.76	156.54	120.90
1	B	944	C	P-O5'-C5'	23.76	156.54	120.90
1	B	1570	A	P-O5'-C5'	23.76	156.53	120.90
1	B	1928	A	O5'-C5'-C4'	23.76	147.13	111.50
1	B	2868	A	P-O5'-C5'	23.75	156.53	120.90
1	B	270	A	O3'-P-O5'	-23.74	68.38	104.00
1	B	1322	A	P-O5'-C5'	23.73	156.49	120.90
1	B	784	G	P-O5'-C5'	23.72	156.48	120.90
1	B	2617	U	P-O3'-C3'	23.71	155.77	120.20
1	B	1210	G	P-O5'-C5'	23.70	156.44	120.90
1	B	1284	A	P-O5'-C5'	23.68	156.42	120.90
1	B	2357	G	P-O5'-C5'	23.65	156.38	120.90
1	B	481	G	P-O5'-C5'	23.64	156.37	120.90
1	B	320	A	C5'-C4'-C3'	23.64	151.46	116.00
1	B	1943	U	P-O5'-C5'	23.64	156.36	120.90
1	B	308	G	P-O5'-C5'	23.63	156.35	120.90
1	B	1943	U	C5'-C4'-C3'	23.62	151.43	116.00
1	B	1763	G	P-O5'-C5'	23.60	156.30	120.90
1	B	2032	G	P-O5'-C5'	23.57	156.25	120.90
1	B	2532	G	P-O5'-C5'	23.53	156.20	120.90
1	B	889	C	P-O5'-C5'	23.51	156.16	120.90
1	B	2113	U	P-O5'-C5'	23.50	156.14	120.90
1	B	1048	A	O5'-C5'-C4'	23.49	146.73	111.50
1	B	2055	C	P-O5'-C5'	23.47	156.10	120.90
1	B	2282	G	P-O5'-C5'	23.46	156.09	120.90
1	B	1913	A	P-O5'-C5'	23.40	156.00	120.90
1	B	2712	C	P-O5'-C5'	23.39	155.98	120.90
1	B	1445	G	P-O5'-C5'	23.37	155.96	120.90
1	B	1428	C	P-O5'-C5'	23.35	155.92	120.90
1	B	1325	U	P-O5'-C5'	23.34	155.92	120.90
1	B	294	A	P-O5'-C5'	23.34	155.91	120.90
1	B	1404	C	P-O3'-C3'	23.33	155.20	120.20
1	B	2335	A	P-O5'-C5'	23.33	155.90	120.90
1	B	276	U	P-O5'-C5'	23.33	155.89	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1427	A	C5'-C4'-C3'	23.27	150.90	116.00
1	B	2126	A	P-O5'-C5'	23.25	155.78	120.90
1	B	1800	C	P-O5'-C5'	23.25	155.77	120.90
1	B	344	A	P-O5'-C5'	23.20	155.71	120.90
1	B	1891	G	P-O5'-C5'	23.16	155.65	120.90
1	B	1667	G	P-O3'-C3'	-23.16	85.47	120.20
1	B	2271	G	P-O5'-C5'	23.15	155.63	120.90
1	B	926	G	O3'-P-O5'	-23.15	69.28	104.00
1	B	2391	G	P-O5'-C5'	23.09	155.54	120.90
1	B	1130	U	P-O3'-C3'	23.08	154.82	120.20
1	B	2849	U	O5'-C5'-C4'	23.05	146.08	111.50
1	B	2158	A	P-O5'-C5'	23.04	155.46	120.90
1	B	973	A	P-O5'-C5'	22.94	155.31	120.90
1	B	2867	G	P-O5'-C5'	22.91	155.27	120.90
1	B	669	G	C4'-C3'-O3'	22.87	147.30	113.00
1	B	1912	A	P-O5'-C5'	22.85	155.17	120.90
1	B	2115	G	P-O5'-C5'	22.76	155.04	120.90
1	B	910	A	P-O5'-C5'	22.73	155.00	120.90
1	B	916	G	C5'-C4'-C3'	22.72	150.08	116.00
1	B	1235	G	P-O5'-C5'	22.69	154.93	120.90
1	B	1205	A	P-O5'-C5'	22.68	154.93	120.90
1	B	1393	A	P-O5'-C5'	22.68	154.92	120.90
1	B	316	C	O3'-P-O5'	-22.68	69.99	104.00
1	B	163	C	P-O5'-C5'	22.66	154.89	120.90
1	B	2112	G	P-O3'-C3'	22.65	154.18	120.20
1	B	933	A	P-O5'-C5'	22.64	154.86	120.90
1	B	60	G	P-O3'-C3'	22.64	154.15	120.20
1	B	1900	A	P-O5'-C5'	22.63	154.85	120.90
1	B	300	A	P-O5'-C5'	22.63	154.85	120.90
1	B	2156	G	C4'-C3'-O3'	22.59	146.89	113.00
1	B	1607	C	P-O5'-C5'	22.57	154.76	120.90
1	B	2238	G	P-O5'-C5'	22.56	154.74	120.90
1	B	626	A	P-O5'-C5'	22.55	154.73	120.90
1	B	112	U	O5'-C5'-C4'	22.52	145.28	111.50
1	B	1223	G	P-O5'-C5'	22.50	154.66	120.90
1	B	1273	U	P-O5'-C5'	22.48	154.62	120.90
1	B	2424	C	P-O5'-C5'	22.46	154.59	120.90
1	B	1932	A	O5'-C5'-C4'	22.46	145.18	111.50
1	B	2884	U	P-O5'-C5'	22.45	154.57	120.90
1	B	1126	A	P-O5'-C5'	22.43	154.55	120.90
1	B	229	C	P-O5'-C5'	22.42	154.54	120.90
1	B	2086	U	P-O5'-C5'	22.42	154.53	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1989	G	C4'-C3'-O3'	22.39	146.59	113.00
1	B	807	U	P-O5'-C5'	22.38	154.47	120.90
1	B	449	A	O5'-C5'-C4'	22.38	145.06	111.50
1	B	492	A	P-O5'-C5'	22.36	154.43	120.90
1	B	1936	A	P-O5'-C5'	22.35	154.43	120.90
1	B	75	G	C5'-C4'-C3'	22.34	160.68	116.00
1	B	59	U	O3'-P-O5'	22.34	137.51	104.00
1	B	372	G	P-O5'-C5'	22.33	154.39	120.90
1	B	1934	C	O5'-C5'-C4'	22.31	144.96	111.50
1	B	608	A	P-O5'-C5'	22.26	154.28	120.90
1	B	1001	A	P-O5'-C5'	22.24	154.27	120.90
1	B	602	A	C5'-C4'-C3'	22.24	149.37	116.00
1	B	1524	G	P-O5'-C5'	22.18	154.17	120.90
1	B	1929	G	P-O5'-C5'	22.18	154.16	120.90
1	B	207	A	P-O5'-C5'	22.15	154.13	120.90
1	B	1525	A	P-O5'-C5'	22.07	154.01	120.90
1	B	1188	U	P-O5'-C5'	22.04	153.96	120.90
1	B	2068	U	P-O5'-C5'	21.96	153.84	120.90
1	B	75	G	O5'-C5'-C4'	21.95	154.41	110.50
1	B	269	C	P-O5'-C5'	21.95	153.82	120.90
1	B	806	C	P-O5'-C5'	21.94	153.81	120.90
1	B	28	A	P-O5'-C5'	21.94	153.81	120.90
1	B	190	A	P-O5'-C5'	21.92	153.78	120.90
1	B	2035	G	P-O5'-C5'	21.92	153.78	120.90
1	B	1609	A	P-O5'-C5'	21.89	153.73	120.90
1	B	218	A	P-O5'-C5'	21.87	153.71	120.90
1	B	2902	C	P-O3'-C3'	-21.84	87.45	120.20
1	B	1348	C	O5'-C5'-C4'	21.79	144.18	111.50
1	B	1122	G	P-O5'-C5'	21.78	153.57	120.90
1	B	588	U	C4'-C3'-O3'	21.73	141.99	109.40
1	B	983	A	P-O5'-C5'	21.72	153.47	120.90
1	B	2076	U	OP1-P-O3'	21.68	173.04	108.00
1	B	972	A	O5'-C5'-C4'	21.64	143.96	111.50
1	B	1856	U	C5'-C4'-C3'	21.63	148.44	116.00
1	B	725	G	P-O5'-C5'	21.62	153.34	120.90
1	B	1758	U	P-O5'-C5'	21.60	153.31	120.90
1	B	2019	A	P-O5'-C5'	21.60	153.31	120.90
1	B	2685	G	P-O5'-C5'	21.59	153.29	120.90
1	B	110	G	P-O3'-C3'	-21.58	87.84	120.20
1	B	789	A	P-O5'-C5'	21.57	153.26	120.90
1	B	941	A	P-O5'-C5'	21.56	153.24	120.90
1	B	2451	A	P-O5'-C5'	21.54	153.21	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	328	U	P-O5'-C5'	21.52	153.19	120.90
1	B	706	A	P-O5'-C5'	21.52	153.18	120.90
1	B	2020	A	P-O5'-C5'	21.51	153.17	120.90
1	B	1927	A	P-O3'-C3'	21.50	152.45	120.20
1	B	705	A	P-O5'-C5'	21.45	153.07	120.90
1	B	2157	G	P-O5'-C5'	21.44	153.06	120.90
1	B	2411	A	P-O5'-C5'	21.43	153.05	120.90
1	B	2172	U	P-O5'-C5'	21.43	153.05	120.90
1	B	321	U	P-O5'-C5'	21.42	153.04	120.90
1	B	491	G	P-O5'-C5'	21.42	153.04	120.90
1	B	1931	U	O3'-P-O5'	21.41	136.11	104.00
1	B	655	A	P-O5'-C5'	21.40	153.00	120.90
1	B	1853	A	O5'-C5'-C4'	21.38	143.57	111.50
1	B	2112	G	P-O5'-C5'	21.36	152.94	120.90
1	B	2493	U	P-O5'-C5'	21.35	152.92	120.90
1	B	570	G	C5'-C4'-C3'	21.34	148.01	116.00
1	B	1365	A	P-O5'-C5'	21.33	152.90	120.90
1	B	2028	U	P-O5'-C5'	21.29	152.84	120.90
1	B	1757	A	P-O5'-C5'	21.17	152.65	120.90
1	B	887	U	P-O5'-C5'	21.16	152.65	120.90
1	B	2031	A	P-O5'-C5'	21.16	152.63	120.90
1	B	1855	U	C5'-C4'-C3'	21.15	147.72	116.00
1	B	2146	C	P-O5'-C5'	21.14	152.61	120.90
1	B	1236	G	P-O5'-C5'	21.12	152.58	120.90
1	B	556	A	P-O5'-C5'	21.11	152.57	120.90
1	B	1397	U	P-O5'-C5'	21.11	152.56	120.90
1	B	217	A	O3'-P-O5'	-21.10	72.35	104.00
1	B	2269	G	P-O5'-C5'	21.10	152.56	120.90
1	B	2704	C	P-O5'-C5'	21.10	152.55	120.90
1	B	1942	C	O5'-C5'-C4'	21.09	143.14	111.50
1	B	761	A	C5'-C4'-C3'	20.99	147.49	116.00
1	B	1425	G	P-O3'-C3'	20.99	151.69	120.20
1	B	1841	U	O3'-P-O5'	-20.92	72.62	104.00
1	B	1696	G	P-O5'-C5'	20.89	152.24	120.90
1	B	1942	C	P-O5'-C5'	20.85	152.17	120.90
1	B	2530	A	P-O5'-C5'	20.84	152.15	120.90
1	B	1954	G	P-O5'-C5'	20.83	152.15	120.90
1	B	2062	A	P-O3'-C3'	20.82	151.43	120.20
1	B	1032	A	P-O5'-C5'	20.81	152.11	120.90
1	B	323	C	O3'-P-O5'	20.80	135.20	104.00
1	B	270	A	C4'-C3'-O3'	20.79	144.19	113.00
1	B	1197	G	P-O3'-C3'	20.78	151.37	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	674	G	O5'-C5'-C4'	20.76	142.63	111.50
1	B	2422	C	P-O5'-C5'	20.75	152.03	120.90
1	B	2180	U	P-O5'-C5'	20.74	152.01	120.90
1	B	2587	A	P-O5'-C5'	20.73	152.00	120.90
1	B	183	C	P-O5'-C5'	20.73	151.99	120.90
1	B	1261	C	O3'-P-O5'	-20.69	72.97	104.00
1	B	1641	A	P-O5'-C5'	20.69	151.93	120.90
1	B	1458	U	P-O5'-C5'	20.64	151.86	120.90
1	B	1931	U	C2'-C3'-O3'	20.63	140.44	109.50
1	B	829	A	P-O5'-C5'	20.61	151.81	120.90
1	B	669	G	O5'-C5'-C4'	20.61	142.41	111.50
1	B	1136	G	P-O5'-C5'	20.60	151.81	120.90
1	B	482	A	P-O5'-C5'	20.57	151.75	120.90
1	B	2903	U	P-O5'-C5'	20.57	151.75	120.90
1	B	1445	G	P-O3'-C3'	20.56	151.04	120.20
1	B	830	G	P-O5'-C5'	20.55	151.72	120.90
1	B	1934	C	C4'-C3'-O3'	-20.53	82.20	113.00
1	B	2500	U	P-O5'-C5'	20.53	151.69	120.90
1	B	2554	U	P-O5'-C5'	20.49	151.63	120.90
1	B	2499	C	P-O5'-C5'	20.48	151.62	120.90
1	B	119	A	P-O3'-C3'	20.46	150.89	120.20
1	B	530	G	P-O5'-C5'	20.39	151.48	120.90
1	B	1150	C	O3'-P-O5'	20.36	134.53	104.00
1	B	1951	U	P-O5'-C5'	20.35	151.43	120.90
1	B	1739	A	P-O5'-C5'	20.33	151.39	120.90
1	B	15	G	C4'-C3'-O3'	20.32	143.48	113.00
1	B	428	A	C4'-C3'-O3'	20.29	143.43	113.00
1	B	411	G	P-O5'-C5'	20.26	151.29	120.90
1	B	478	A	P-O5'-C5'	20.26	151.29	120.90
1	B	2014	A	P-O5'-C5'	20.23	151.24	120.90
1	B	431	U	C4'-C3'-O3'	20.23	143.34	113.00
1	B	1364	G	P-O5'-C5'	20.22	151.23	120.90
1	B	972	A	P-O5'-C5'	20.22	151.23	120.90
1	B	1354	A	P-O5'-C5'	20.19	151.19	120.90
1	B	2695	U	O3'-P-O5'	-20.17	73.75	104.00
1	B	2505	G	O3'-P-O5'	20.16	134.24	104.00
1	B	788	A	P-O5'-C5'	20.16	151.13	120.90
1	B	1417	C	P-O5'-C5'	20.13	151.10	120.90
1	B	257	C	P-O5'-C5'	20.13	151.09	120.90
1	B	470	A	P-O5'-C5'	20.11	151.07	120.90
1	B	1857	G	C4'-C3'-O3'	20.09	143.14	113.00
1	B	1451	C	O5'-C5'-C4'	20.07	141.60	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1933	G	P-O5'-C5'	20.07	151.00	120.90
1	B	1494	A	P-O5'-C5'	20.06	150.99	120.90
1	B	1888	G	P-O5'-C5'	20.02	150.93	120.90
1	B	1598	A	P-O5'-C5'	20.00	150.90	120.90
1	B	2042	A	C5'-C4'-C3'	19.98	145.97	116.00
1	B	1970	A	P-O5'-C5'	19.97	150.86	120.90
1	B	2322	A	C4'-C3'-O3'	19.97	152.44	112.50
1	B	1609	A	C4'-C3'-O3'	19.97	142.95	113.00
1	B	511	U	P-O3'-C3'	19.96	150.14	120.20
1	B	220	G	P-O5'-C5'	19.95	150.83	120.90
1	B	574	A	O5'-C5'-C4'	19.95	141.43	111.50
1	B	1534	U	P-O5'-C5'	19.95	150.82	120.90
1	B	727	A	P-O5'-C5'	19.94	150.81	120.90
1	B	240	C	O5'-C5'-C4'	19.93	141.39	111.50
1	B	961	C	P-O5'-C5'	19.92	150.79	120.90
1	B	1608	A	O3'-P-O5'	19.91	133.86	104.00
1	B	324	A	O5'-C5'-C4'	19.90	150.30	110.50
1	B	585	G	P-O5'-C5'	19.87	150.71	120.90
1	B	250	G	P-O5'-C5'	19.87	150.70	120.90
1	B	1938	A	O5'-C5'-C4'	19.86	141.29	111.50
1	B	52	A	P-O5'-C5'	19.85	150.68	120.90
1	B	859	G	C5'-C4'-O4'	-19.85	80.02	109.80
1	B	64	A	P-O5'-C5'	19.83	150.65	120.90
1	B	214	G	P-O5'-C5'	19.83	150.65	120.90
1	B	1116	G	P-O3'-C3'	19.82	149.93	120.20
1	B	1536	C	P-O5'-C5'	19.80	150.60	120.90
1	B	2405	G	C4'-C3'-O3'	19.76	142.64	113.00
1	B	714	U	P-O5'-C5'	19.76	150.54	120.90
1	B	608	A	O5'-C5'-C4'	19.75	141.13	111.50
1	B	1760	C	P-O5'-C5'	19.75	150.52	120.90
1	B	2258	C	OP2-P-O3'	-19.75	48.76	108.00
1	B	2553	G	P-O5'-C5'	19.74	150.51	120.90
1	B	1425	G	C5'-C4'-C3'	19.73	145.60	116.00
1	B	1773	A	P-O5'-C5'	19.71	150.47	120.90
1	B	2690	U	O5'-C5'-C4'	19.70	141.05	111.50
1	B	1672	A	C5'-C4'-C3'	19.68	145.53	116.00
1	B	2751	G	P-O5'-C5'	19.68	150.43	120.90
1	B	2454	G	P-O5'-C5'	19.68	150.42	120.90
1	B	1320	C	P-O3'-C3'	19.68	149.71	120.20
1	B	199	A	P-O5'-C5'	19.66	150.39	120.90
1	B	587	C	C4'-C3'-O3'	19.66	142.48	113.00
1	B	2822	G	P-O5'-C5'	19.65	150.37	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1535	A	P-O5'-C5'	19.64	150.36	120.90
1	B	56	A	P-O3'-C3'	19.62	149.63	120.20
1	B	52	A	C5'-C4'-C3'	19.62	145.42	116.00
1	B	2060	A	P-O3'-C3'	19.61	149.62	120.20
1	B	56	A	O3'-P-O5'	-19.61	74.59	104.00
1	B	1457	U	P-O5'-C5'	19.56	150.24	120.90
1	B	60	G	O5'-C5'-C4'	19.53	140.79	111.50
1	B	2062	A	C5'-C4'-C3'	19.51	145.26	116.00
1	B	316	C	OP1-P-O3'	19.50	166.51	108.00
1	B	2903	U	O5'-C5'-C4'	19.48	140.72	111.50
1	B	1630	A	O3'-P-O5'	-19.46	74.81	104.00
1	B	2171	A	P-O5'-C5'	19.46	150.08	120.90
1	B	1744	A	P-O5'-C5'	19.45	150.08	120.90
1	B	1255	U	C4'-C3'-O3'	19.42	142.13	113.00
1	B	2871	U	O5'-C5'-C4'	19.41	140.62	111.50
1	B	570	G	P-O5'-C5'	19.40	150.00	120.90
1	B	588	U	C5'-C4'-C3'	19.40	144.29	115.20
1	B	1981	A	P-O5'-C5'	19.39	149.98	120.90
1	B	941	A	O5'-C5'-C4'	19.38	140.57	111.50
1	B	1124	G	P-O3'-C3'	-19.37	91.14	120.20
1	B	2779	U	P-O5'-C5'	19.35	149.92	120.90
1	B	1715	G	P-O5'-C5'	19.31	149.86	120.90
1	B	1196	C	P-O5'-C5'	19.28	149.82	120.90
1	B	1340	U	P-O5'-C5'	19.25	149.78	120.90
1	B	2425	A	P-O5'-C5'	19.24	149.76	120.90
1	B	13	A	P-O5'-C5'	19.21	149.72	120.90
1	B	2778	A	P-O5'-C5'	19.20	149.69	120.90
1	B	110	G	O3'-P-O5'	19.19	132.79	104.00
1	B	1934	C	C5'-C4'-O4'	19.14	138.50	109.80
1	B	572	A	C5'-C4'-O4'	19.12	138.48	109.80
1	B	613	A	P-O5'-C5'	19.10	149.55	120.90
1	B	429	A	O5'-C5'-C4'	19.10	148.70	110.50
1	B	457	A	O5'-C5'-C4'	19.09	140.13	111.50
1	B	601	C	O3'-P-O5'	19.06	132.60	104.00
1	B	717	C	P-O5'-C5'	19.05	149.48	120.90
1	B	2601	C	O3'-P-O5'	-19.04	75.44	104.00
1	B	818	G	P-O5'-C5'	19.04	149.45	120.90
1	B	52	A	O5'-C5'-C4'	19.02	140.03	111.50
1	B	2253	G	P-O5'-C5'	19.01	149.41	120.90
1	B	1931	U	P-O3'-C3'	19.00	148.71	120.20
1	B	762	U	C5'-C4'-C3'	18.98	144.48	116.00
1	B	2086	U	C5'-C4'-O4'	18.97	138.26	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	471	A	P-O5'-C5'	18.96	149.34	120.90
1	B	2203	U	P-O5'-C5'	18.94	149.32	120.90
1	B	28	A	C2'-C3'-O3'	-18.94	85.30	113.70
1	B	72	U	P-O5'-C5'	18.92	149.28	120.90
1	B	2478	A	P-O5'-C5'	18.89	149.24	120.90
1	B	871	U	P-O5'-C5'	18.89	149.23	120.90
1	B	2810	A	P-O5'-C5'	18.88	149.22	120.90
1	B	586	A	C5'-C4'-C3'	18.87	144.31	116.00
1	B	684	G	O3'-P-O5'	18.87	132.31	104.00
1	B	2318	G	P-O5'-C5'	18.86	149.20	120.90
1	B	2871	U	P-O5'-C5'	18.83	149.14	120.90
1	B	1573	G	O5'-C5'-C4'	18.82	139.73	111.50
1	B	1969	A	O3'-P-O5'	18.81	132.21	104.00
1	B	2683	C	P-O5'-C5'	18.78	149.07	120.90
1	B	857	G	P-O3'-C3'	18.76	148.34	120.20
1	B	1567	G	C2'-C3'-O3'	18.74	141.81	113.70
1	B	240	C	P-O5'-C5'	18.73	148.99	120.90
1	B	2517	C	O3'-P-O5'	18.71	132.07	104.00
1	B	2346	A	P-O5'-C5'	18.69	148.94	120.90
1	B	1616	A	P-O5'-C5'	18.68	148.92	120.90
1	B	75	G	P-O5'-C5'	18.64	176.81	120.90
1	B	861	A	O5'-C5'-C4'	18.64	139.45	111.50
1	B	566	U	P-O5'-C5'	18.63	148.84	120.90
1	B	62	U	P-O5'-C5'	18.61	148.82	120.90
1	B	668	A	O3'-P-O5'	18.61	131.92	104.00
1	B	2042	A	C4'-C3'-O3'	18.61	140.91	113.00
1	B	1852	U	C4'-C3'-O3'	18.61	140.91	113.00
1	B	2850	A	P-O5'-C5'	18.60	148.80	120.90
1	B	254	G	C4'-C3'-O3'	18.60	140.90	113.00
1	B	2092	U	P-O3'-C3'	-18.60	92.30	120.20
1	B	802	A	P-O5'-C5'	18.59	148.79	120.90
1	B	2790	U	P-O5'-C5'	18.59	148.79	120.90
1	B	1675	C	C5'-C4'-O4'	18.59	137.69	109.80
1	B	586	A	P-O3'-C3'	18.57	148.06	120.20
1	B	2453	A	O5'-C5'-C4'	18.56	139.34	111.50
1	B	1241	A	O5'-C5'-C4'	18.51	139.27	111.50
1	B	498	G	P-O3'-C3'	18.51	147.97	120.20
1	B	2825	G	P-O5'-C5'	18.51	148.66	120.90
1	B	367	G	P-O5'-C5'	18.50	148.64	120.90
1	B	960	A	P-O5'-C5'	18.49	148.64	120.90
1	B	959	A	P-O5'-C5'	18.47	148.61	120.90
1	B	1545	A	P-O5'-C5'	18.47	148.60	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1250	G	P-O5'-C5'	18.46	148.59	120.90
1	B	2382	G	C5'-C4'-C3'	18.46	143.69	116.00
1	B	11	C	P-O3'-C3'	18.46	147.89	120.20
1	B	793	A	P-O5'-C5'	18.46	148.59	120.90
1	B	2212	A	P-O5'-C5'	18.45	148.57	120.90
1	B	504	A	P-O5'-C5'	18.39	148.49	120.90
1	B	2555	U	P-O5'-C5'	18.39	148.49	120.90
1	B	52	A	O3'-P-O5'	18.38	131.57	104.00
1	B	2387	U	P-O3'-C3'	18.36	147.75	120.20
1	B	2713	U	P-O5'-C5'	18.35	148.42	120.90
1	B	684	G	C4'-C3'-O3'	18.34	140.50	113.00
1	B	480	A	P-O5'-C5'	18.30	148.35	120.90
1	B	1434	A	P-O5'-C5'	18.30	148.34	120.90
1	B	513	A	P-O5'-C5'	18.29	148.33	120.90
1	B	294	A	P-O3'-C3'	-18.27	92.79	120.20
1	B	1951	U	C4'-C3'-O3'	18.27	136.80	109.40
1	B	836	G	P-O5'-C5'	18.27	148.30	120.90
1	B	2711	A	P-O3'-C3'	-18.25	92.82	120.20
1	B	2751	G	O5'-C5'-C4'	18.24	138.86	111.50
1	B	1609	A	C5'-C4'-C3'	18.22	143.33	116.00
1	B	1195	G	O3'-P-O5'	18.21	131.32	104.00
1	B	1353	A	P-O5'-C5'	18.21	148.21	120.90
1	B	2883	A	P-O5'-C5'	18.19	148.19	120.90
1	B	2382	G	P-O5'-C5'	18.18	148.17	120.90
1	B	92	U	P-O5'-C5'	18.18	148.16	120.90
1	B	2844	G	C4'-C3'-O3'	18.17	136.65	109.40
1	B	1870	C	P-O5'-C5'	18.17	148.15	120.90
1	B	189	G	O5'-C5'-C4'	18.16	138.74	111.50
1	B	242	G	P-O5'-C5'	18.16	148.13	120.90
1	B	1321	A	P-O5'-C5'	18.13	148.09	120.90
1	B	1050	A	P-O5'-C5'	18.12	148.09	120.90
1	B	2858	C	P-O5'-C5'	18.12	148.09	120.90
1	B	1871	A	P-O5'-C5'	18.11	148.07	120.90
1	B	785	G	P-O5'-C5'	18.09	148.03	120.90
1	B	1342	A	P-O5'-C5'	18.08	148.02	120.90
1	B	1203	U	P-O5'-C5'	18.06	147.98	120.90
1	B	2891	U	P-O5'-C5'	18.04	147.95	120.90
1	B	2575	C	P-O5'-C5'	18.03	147.95	120.90
1	B	118	A	P-O5'-C5'	18.02	147.94	120.90
1	B	1609	A	O5'-C5'-C4'	18.00	138.51	111.50
1	B	1039	A	P-O5'-C5'	17.99	147.89	120.90
1	B	403	U	P-O5'-C5'	17.99	147.89	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1328	A	O5'-C5'-C4'	17.99	138.49	111.50
1	B	126	A	P-O5'-C5'	17.98	147.87	120.90
1	B	254	G	C5'-C4'-C3'	17.98	142.97	116.00
1	B	1367	A	P-O5'-C5'	17.97	147.86	120.90
1	B	1495	A	P-O5'-C5'	17.94	147.81	120.90
1	B	2653	U	N1-C1'-C2'	17.93	138.90	112.00
1	B	53	A	C4'-C3'-O3'	17.89	139.83	113.00
1	B	387	U	P-O5'-C5'	17.87	147.71	120.90
1	B	2812	G	O3'-P-O5'	-17.87	77.19	104.00
1	B	2013	A	C4'-C3'-O3'	17.86	136.20	109.40
1	B	2055	C	O3'-P-O5'	17.86	130.79	104.00
1	B	2748	A	P-O5'-C5'	17.85	147.67	120.90
1	B	2211	A	P-O5'-C5'	17.85	147.67	120.90
1	B	587	C	P-O5'-C5'	17.84	147.67	120.90
1	B	324	A	P-O5'-C5'	17.82	174.36	120.90
1	B	1673	G	P-O3'-C3'	17.82	146.92	120.20
1	B	971	G	O3'-P-O5'	17.81	130.72	104.00
1	B	279	A	C4'-C3'-O3'	17.81	139.72	113.00
1	B	2733	A	P-O5'-C5'	17.81	147.61	120.90
1	B	607	U	O3'-P-O5'	17.81	130.71	104.00
1	B	2210	U	P-O5'-C5'	17.80	147.61	120.90
1	B	1988	G	O3'-P-O5'	17.79	130.68	104.00
1	B	734	A	P-O5'-C5'	17.77	147.56	120.90
1	B	28	A	C5'-C4'-C3'	17.76	142.64	116.00
1	B	1100	C	C1'-C2'-O2'	17.73	135.00	108.40
1	B	2482	A	P-O5'-C5'	17.73	147.49	120.90
1	B	857	G	O5'-C5'-C4'	17.66	137.99	111.50
1	B	36	G	P-O3'-C3'	-17.65	93.72	120.20
1	B	449	A	C5'-C4'-C3'	17.65	142.47	116.00
1	B	1552	A	P-O5'-C5'	17.65	147.38	120.90
1	B	1468	U	C4'-C3'-O3'	17.65	139.47	113.00
1	B	1989	G	C5'-C4'-C3'	17.65	142.47	116.00
1	B	2521	C	OP1-P-O3'	-17.64	55.07	108.00
1	B	60	G	C5'-C4'-C3'	17.62	142.43	116.00
1	B	2628	C	P-O5'-C5'	17.61	147.31	120.90
1	B	1698	A	P-O5'-C5'	17.59	147.29	120.90
1	B	940	G	O3'-P-O5'	17.57	130.36	104.00
1	B	2452	C	P-O5'-C5'	17.57	147.26	120.90
1	B	790	U	P-O5'-C5'	17.55	147.23	120.90
1	B	2584	U	P-O5'-C5'	17.55	147.22	120.90
1	B	2070	A	P-O3'-C3'	-17.54	93.90	120.20
1	B	2892	G	P-O5'-C5'	17.52	147.19	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2113	U	O5'-C5'-C4'	17.51	137.76	111.50
1	B	277	G	P-O3'-C3'	17.50	146.44	120.20
1	B	1902	C	O3'-P-O5'	-17.50	77.75	104.00
1	B	1568	G	O5'-C5'-C4'	17.49	137.74	111.50
1	B	2497	A	P-O5'-C5'	17.48	147.11	120.90
1	B	1608	A	P-O3'-C3'	17.46	146.39	120.20
1	B	2838	G	P-O3'-C3'	17.44	146.36	120.20
1	B	73	A	C4'-C3'-O3'	17.43	139.15	113.00
1	B	369	U	O5'-C5'-C4'	17.43	137.65	111.50
1	B	487	C	O3'-P-O5'	-17.42	77.87	104.00
1	B	570	G	C4'-C3'-O3'	17.42	139.13	113.00
1	B	2752	C	P-O3'-C3'	17.40	146.30	120.20
1	B	945	A	P-O5'-C5'	17.40	147.00	120.90
1	B	2358	A	P-O5'-C5'	17.39	146.99	120.90
1	B	2112	G	C5'-C4'-C3'	17.39	142.08	116.00
1	B	2844	G	P-O5'-C5'	17.38	146.96	120.90
1	B	53	A	O5'-C5'-C4'	17.36	137.55	111.50
1	B	2286	G	P-O5'-C5'	17.36	146.93	120.90
1	B	990	A	P-O5'-C5'	17.35	146.93	120.90
1	B	27	G	C4'-C3'-O3'	17.35	139.02	113.00
1	B	974	G	P-O5'-C5'	17.33	146.90	120.90
1	B	1252	G	C5'-C4'-C3'	17.32	141.99	116.00
1	B	119	A	O5'-C5'-C4'	17.32	137.48	111.50
1	B	1451	C	C5'-C4'-C3'	17.32	141.98	116.00
1	B	857	G	C5'-C4'-O4'	17.32	135.77	109.80
1	B	1427	A	C2'-C3'-O3'	-17.29	87.77	113.70
1	B	46	G	C4'-C3'-O3'	17.28	138.91	113.00
1	B	526	A	C5'-C4'-C3'	17.26	141.89	116.00
1	B	2070	A	O3'-P-O5'	17.26	129.88	104.00
1	B	1670	C	P-O5'-C5'	17.25	146.77	120.90
1	B	568	U	P-O5'-C5'	17.24	146.76	120.90
1	B	219	A	O5'-C5'-C4'	17.22	137.33	111.50
1	B	912	C	P-O5'-C5'	17.22	146.73	120.90
1	B	215	G	O5'-C5'-C4'	17.21	137.31	111.50
1	B	1738	G	P-O5'-C5'	17.18	146.67	120.90
1	B	2573	C	P-O5'-C5'	17.18	146.67	120.90
1	B	1853	A	C4'-C3'-O3'	17.18	138.76	113.00
1	B	1927	A	P-O5'-C5'	17.17	172.40	120.90
1	B	2497	A	C2'-C3'-O3'	17.16	139.44	113.70
1	B	264	C	C5'-C4'-C3'	17.15	141.73	116.00
1	B	1955	U	P-O5'-C5'	17.15	146.63	120.90
1	B	1348	C	P-O5'-C5'	17.12	146.58	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	478	A	O5'-C5'-C4'	17.12	137.18	111.50
1	B	652	U	C4'-C3'-O3'	17.12	138.68	113.00
1	B	2466	C	P-O3'-C3'	-17.11	94.53	120.20
1	B	2574	G	P-O5'-C5'	17.11	146.57	120.90
1	B	607	U	P-O3'-C3'	-17.10	94.55	120.20
1	B	197	A	P-O5'-C5'	17.09	146.53	120.90
1	B	1428	C	C5'-C4'-C3'	17.09	141.63	116.00
1	B	221	A	P-O5'-C5'	17.08	146.53	120.90
1	B	2381	A	O3'-P-O5'	17.08	129.62	104.00
1	B	669	G	C5'-C4'-C3'	17.07	141.61	116.00
1	B	1692	U	P-O5'-C5'	17.06	146.50	120.90
1	B	685	A	O5'-C5'-C4'	17.06	137.09	111.50
1	B	385	C	P-O5'-C5'	17.05	146.47	120.90
1	B	2870	C	P-O3'-C3'	17.04	145.76	120.20
1	B	2310	C	P-O5'-C5'	17.04	146.46	120.90
1	B	2477	U	P-O5'-C5'	17.04	146.46	120.90
1	B	2534	A	P-O5'-C5'	17.01	146.42	120.90
1	B	1070	A	N9-C1'-C2'	-17.00	88.51	114.00
1	B	637	A	P-O3'-C3'	16.99	145.69	120.20
1	B	2135	A	P-O5'-C5'	16.98	146.37	120.90
1	B	1302	A	P-O5'-C5'	16.98	146.37	120.90
1	B	1451	C	C4'-C3'-O3'	16.97	138.46	113.00
1	B	120	U	O5'-P-OP2	-16.96	59.83	110.70
1	B	761	A	C4'-C3'-O3'	16.96	138.44	113.00
1	B	1942	C	C5'-C4'-O4'	-16.96	84.36	109.80
1	B	916	G	C2'-C3'-O3'	-16.94	88.28	113.70
1	B	98	G	P-O3'-C3'	16.93	145.60	120.20
1	B	53	A	C5'-C4'-C3'	16.93	141.39	116.00
1	B	71	A	C4'-C3'-O3'	16.91	138.37	113.00
1	B	619	G	P-O5'-C5'	16.91	146.26	120.90
1	B	103	A	O5'-C5'-C4'	16.91	136.86	111.50
1	B	1933	G	O5'-C5'-C4'	16.91	136.86	111.50
1	B	2517	C	OP1-P-O3'	-16.88	57.36	108.00
1	B	1885	A	O3'-P-O5'	16.88	129.31	104.00
1	B	1679	A	P-O5'-C5'	16.86	146.19	120.90
1	B	189	G	P-O5'-C5'	16.86	146.18	120.90
1	B	102	U	O5'-C5'-C4'	16.85	136.78	111.50
1	B	2872	A	O5'-C5'-C4'	16.85	136.78	111.50
1	B	1609	A	C2'-C3'-O3'	-16.84	88.44	113.70
1	B	1428	C	P-O3'-C3'	16.81	145.41	120.20
1	B	1803	A	O3'-P-O5'	-16.79	78.81	104.00
1	B	2750	A	P-O3'-C3'	16.79	145.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1515	A	C4'-C3'-O3'	16.79	138.18	113.00
1	B	1641	A	C4'-C3'-O3'	16.77	138.15	113.00
1	B	2626	C	C4'-C3'-O3'	16.75	134.53	109.40
1	B	2404	U	P-O3'-C3'	-16.74	95.09	120.20
1	B	804	A	O5'-C5'-C4'	16.74	136.60	111.50
1	B	1391	U	P-O5'-C5'	16.74	146.01	120.90
1	B	1454	C	P-O5'-C5'	16.73	145.99	120.90
1	B	573	U	P-O3'-C3'	16.71	145.26	120.20
1	B	2546	U	O3'-P-O5'	-16.66	79.00	104.00
1	B	1450	G	O3'-P-O5'	16.66	129.00	104.00
1	B	2322	A	O3'-P-O5'	-16.66	79.01	104.00
1	B	2846	G	O3'-P-O5'	-16.65	79.03	104.00
1	B	1325	U	C4'-C3'-O3'	16.64	137.96	113.00
1	B	2903	U	C4'-C3'-O3'	16.62	137.93	113.00
1	B	1427	A	P-O3'-C3'	16.61	145.12	120.20
1	B	1943	U	C4'-C3'-O3'	16.61	137.91	113.00
1	B	2114	A	O3'-P-O5'	-16.61	79.09	104.00
1	B	2427	C	C5'-C4'-C3'	16.61	140.91	116.00
1	B	1996	C	OP1-P-O3'	-16.60	58.19	108.00
1	B	244	A	O3'-P-O5'	-16.58	79.12	104.00
1	B	930	G	P-O3'-C3'	-16.58	95.33	120.20
1	B	503	A	P-O5'-C5'	16.57	145.76	120.90
1	B	845	A	C4'-C3'-O3'	-16.57	88.14	113.00
1	B	2268	A	P-O5'-C5'	16.57	145.76	120.90
1	B	837	C	P-O5'-C5'	16.56	145.75	120.90
1	B	1888	G	C2'-C3'-O3'	16.56	138.54	113.70
1	B	2161	C	O3'-P-O5'	-16.55	79.17	104.00
1	B	1626	A	P-O5'-C5'	16.54	145.71	120.90
1	B	941	A	C4'-C3'-O3'	16.51	137.76	113.00
1	B	435	C	OP2-P-O3'	-16.50	58.49	108.00
1	B	2013	A	O3'-P-O5'	-16.48	79.27	104.00
1	B	46	G	O5'-C5'-C4'	16.46	136.20	111.50
1	B	449	A	C4'-C3'-O3'	16.46	137.69	113.00
1	B	1310	G	C5'-C4'-C3'	16.46	140.69	116.00
1	B	2406	A	P-O5'-C5'	16.46	145.59	120.90
1	B	464	U	C5'-C4'-C3'	16.46	140.69	116.00
1	B	2562	U	C4'-C3'-O3'	16.46	134.09	109.40
1	B	280	U	O3'-P-O5'	16.45	128.67	104.00
1	B	504	A	C4'-C3'-O3'	16.42	137.63	113.00
1	B	15	G	C5'-C4'-C3'	16.40	140.59	116.00
1	B	275	C	P-O3'-C3'	16.39	144.78	120.20
1	B	2766	A	P-O5'-C5'	16.38	145.47	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1344	U	P-O3'-C3'	16.38	144.76	120.20
1	B	27	G	C5'-C4'-C3'	16.36	140.54	116.00
1	B	1261	C	P-O3'-C3'	16.36	144.74	120.20
1	B	2306	C	P-O5'-C5'	16.34	145.41	120.90
1	B	1848	A	OP2-P-O3'	-16.33	59.02	108.00
1	B	1585	C	P-O5'-C5'	16.32	145.38	120.90
1	B	653	U	O5'-C5'-C4'	16.32	135.97	111.50
1	B	1027	A	P-O5'-C5'	16.32	145.37	120.90
1	B	1567	G	P-O5'-C5'	16.28	145.33	120.90
1	B	1460	U	P-O5'-C5'	16.23	145.24	120.90
1	B	452	G	P-O5'-C5'	16.22	145.23	120.90
1	B	715	A	P-O5'-C5'	16.22	145.23	120.90
1	B	684	G	C5'-C4'-O4'	-16.21	85.48	109.80
1	B	1971	U	C5'-C4'-O4'	-16.21	85.49	109.80
1	B	27	G	O3'-P-O5'	16.19	128.28	104.00
1	B	2104	C	P-O3'-C3'	16.19	144.48	120.20
1	B	113	U	O5'-C5'-C4'	16.17	135.76	111.50
1	B	1251	C	P-O5'-C5'	16.17	145.16	120.90
1	B	1308	A	C5'-C4'-C3'	16.17	140.25	116.00
1	B	75	G	C5'-C4'-O4'	-16.16	77.18	109.50
1	B	2834	G	C5'-C4'-O4'	16.16	134.04	109.80
1	B	388	G	P-O5'-C5'	16.15	145.13	120.90
1	B	525	U	P-O3'-C3'	16.14	144.42	120.20
1	B	1047	G	O3'-P-O5'	16.14	128.21	104.00
1	B	1791	A	P-O5'-C5'	16.14	145.10	120.90
1	B	1762	A	P-O5'-C5'	16.13	145.09	120.90
1	B	1452	G	O3'-P-O5'	-16.13	79.81	104.00
1	B	896	A	P-O5'-C5'	16.12	145.09	120.90
1	B	2114	A	O5'-C5'-C4'	16.12	135.68	111.50
1	B	70	G	O3'-P-O5'	16.11	128.17	104.00
1	B	2849	U	O3'-P-O5'	-16.11	79.83	104.00
1	B	1029	A	C4'-C3'-O3'	16.11	137.16	113.00
1	B	1856	U	P-O3'-C3'	16.10	144.34	120.20
1	B	1283	G	P-O3'-C3'	16.07	144.30	120.20
1	B	1989	G	O3'-P-O5'	16.07	128.10	104.00
1	B	2033	A	P-O5'-C5'	16.06	144.99	120.90
1	B	73	A	C5'-C4'-C3'	16.06	140.09	116.00
1	B	1103	A	C2'-C3'-O3'	-16.05	89.62	113.70
1	B	764	A	C5'-C4'-O4'	16.04	133.85	109.80
1	B	1572	A	P-O3'-C3'	16.03	144.25	120.20
1	B	2392	A	P-O5'-C5'	16.03	144.95	120.90
1	B	859	G	OP2-P-O3'	16.03	156.09	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2542	A	P-O5'-C5'	16.03	144.94	120.90
1	B	1966	A	P-O5'-C5'	16.02	144.93	120.90
1	B	1564	C	P-O3'-C3'	16.02	144.23	120.20
1	B	270	A	OP2-P-O3'	16.00	156.01	108.00
1	B	802	A	C5'-C4'-C3'	16.00	139.21	115.20
1	B	1932	A	P-O3'-C3'	16.00	144.20	120.20
1	B	1680	U	O5'-C5'-C4'	15.99	135.49	111.50
1	B	1671	U	P-O5'-C5'	15.99	144.88	120.90
1	B	1522	A	P-O3'-C3'	15.98	144.18	120.20
1	B	2741	A	C4'-C3'-O3'	15.97	136.96	113.00
1	B	2451	A	C5'-C4'-C3'	15.96	139.95	116.00
1	B	2476	A	P-O5'-C5'	15.96	144.85	120.90
1	B	60	G	C5'-C4'-O4'	-15.95	85.87	109.80
1	B	51	G	O3'-P-O5'	15.95	127.92	104.00
1	B	1466	U	O5'-C5'-C4'	15.94	135.41	111.50
1	B	1376	C	P-O3'-C3'	-15.94	96.30	120.20
1	B	1989	G	O5'-C5'-C4'	15.92	135.39	111.50
1	B	2273	A	P-O5'-C5'	15.91	144.77	120.90
1	B	858	G	O3'-P-O5'	-15.90	80.14	104.00
1	B	651	G	C4'-C3'-O3'	15.90	136.85	113.00
1	B	1676	A	O3'-P-O5'	-15.90	80.15	104.00
1	B	958	U	P-O5'-C5'	15.89	144.74	120.90
1	B	2848	G	P-O3'-C3'	15.89	144.04	120.20
1	B	2060	A	C5'-C4'-C3'	15.88	139.83	116.00
1	B	180	G	C4'-C3'-O3'	15.87	136.80	113.00
1	B	1854	A	P-O5'-C5'	15.87	144.70	120.90
1	B	1585	C	O3'-P-O5'	-15.86	80.21	104.00
1	B	2041	U	P-O5'-C5'	15.86	144.69	120.90
1	B	1606	C	C5'-C4'-C3'	15.86	139.78	116.00
1	B	1950	G	O3'-P-O5'	-15.85	80.22	104.00
1	B	2393	U	O3'-P-O5'	-15.84	80.23	104.00
1	B	428	A	C5'-C4'-C3'	15.84	139.75	116.00
1	B	2741	A	P-O5'-C5'	15.84	144.65	120.90
1	B	1566	A	P-O5'-C5'	15.83	144.65	120.90
1	B	2113	U	C4'-C3'-O3'	15.83	136.74	113.00
1	B	1027	A	C4'-C3'-O3'	15.82	136.73	113.00
1	B	1936	A	C2'-C3'-O3'	15.82	137.43	113.70
1	B	1933	G	P-O3'-C3'	15.82	143.93	120.20
1	B	316	C	P-O3'-C3'	-15.80	96.50	120.20
1	B	466	A	P-O5'-C5'	15.79	144.58	120.90
1	B	2357	G	C4'-C3'-O3'	15.78	136.66	113.00
1	B	1847	A	C4'-C3'-O3'	-15.77	89.34	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1790	C	C5'-C4'-C3'	15.77	139.65	116.00
1	B	1130	U	O3'-P-O5'	15.75	127.62	104.00
1	B	2156	G	C5'-C4'-C3'	15.74	139.61	116.00
1	B	2725	A	P-O5'-C5'	15.74	144.51	120.90
1	B	501	A	P-O3'-C3'	15.73	143.80	120.20
1	B	2405	G	C5'-C4'-C3'	15.73	139.60	116.00
1	B	1377	G	P-O5'-C5'	15.72	144.48	120.90
1	B	2595	G	P-O5'-C5'	15.72	144.48	120.90
1	B	431	U	C5'-C4'-O4'	-15.71	86.23	109.80
1	B	1761	C	P-O5'-C5'	15.71	144.46	120.90
1	B	477	A	C4'-C3'-O3'	15.70	136.56	113.00
1	B	2061	G	O3'-P-O5'	15.70	127.55	104.00
1	B	447	A	O3'-P-O5'	-15.68	80.47	104.00
1	B	2020	A	C4'-C3'-O3'	15.68	132.93	109.40
1	B	1255	U	C5'-C4'-C3'	15.68	139.52	116.00
1	B	2258	C	OP1-P-O3'	15.65	154.96	108.00
1	B	207	A	O5'-C5'-C4'	15.64	134.97	111.50
1	B	571	U	O5'-C5'-C4'	15.64	134.96	111.50
1	B	1782	U	P-O5'-C5'	15.63	144.34	120.90
1	B	1425	G	P-O5'-C5'	15.63	144.34	120.90
1	B	456	C	P-O5'-C5'	15.62	144.33	120.90
1	B	2468	A	O5'-C5'-C4'	15.61	134.91	111.50
1	B	1027	A	P-O3'-C3'	-15.61	96.79	120.20
1	B	1696	G	O5'-C5'-C4'	15.61	134.91	111.50
1	B	1856	U	C4'-C3'-O3'	15.60	136.41	113.00
1	B	1689	A	P-O5'-C5'	15.59	144.29	120.90
1	B	498	G	C5'-C4'-C3'	15.58	139.37	116.00
1	B	574	A	P-O5'-C5'	15.57	144.26	120.90
1	B	1390	U	P-O5'-C5'	15.56	144.24	120.90
1	B	562	U	P-O5'-C5'	15.56	144.24	120.90
1	B	1813	G	P-O3'-C3'	-15.55	96.87	120.20
1	B	847	U	C5'-C4'-C3'	15.55	139.32	116.00
1	B	670	A	O5'-C5'-C4'	15.54	134.81	111.50
1	B	1284	A	O5'-C5'-C4'	15.53	134.79	111.50
1	B	564	C	P-O5'-C5'	15.51	144.17	120.90
1	B	1888	G	C5'-C4'-C3'	-15.51	92.74	116.00
1	B	51	G	O5'-C5'-C4'	15.50	134.75	111.50
1	B	637	A	P-O5'-C5'	15.50	144.16	120.90
1	B	1331	G	P-O3'-C3'	15.49	143.43	120.20
1	B	1990	C	O3'-P-O5'	-15.48	80.78	104.00
1	B	2645	G	P-O5'-C5'	15.48	144.12	120.90
1	B	528	A	P-O5'-C5'	15.48	144.12	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2531	A	P-O5'-C5'	15.48	144.12	120.90
1	B	793	A	O3'-P-O5'	15.47	127.21	104.00
1	B	2453	A	P-O5'-C5'	15.47	144.10	120.90
1	B	45	G	O3'-P-O5'	15.47	127.20	104.00
1	B	2492	U	O3'-P-O5'	-15.46	80.81	104.00
1	B	72	U	C2'-C3'-O3'	15.44	136.86	113.70
1	B	2690	U	C5'-C4'-O4'	15.44	132.96	109.80
1	B	369	U	C4'-C3'-O3'	15.43	136.15	113.00
1	B	916	G	P-O3'-C3'	15.41	143.32	120.20
1	B	2432	A	P-O5'-C5'	15.41	144.01	120.90
1	B	93	G	P-O3'-C3'	15.40	143.31	120.20
1	B	2423	U	P-O5'-C5'	15.40	144.00	120.90
1	B	1047	G	P-O3'-C3'	15.40	143.29	120.20
1	B	71	A	P-O5'-C5'	15.39	143.99	120.90
1	B	762	U	C2'-C3'-O3'	-15.36	90.66	113.70
1	B	1941	C	C5'-C4'-C3'	15.35	139.03	116.00
1	B	2161	C	P-O3'-C3'	15.35	143.23	120.20
1	B	2426	A	P-O5'-C5'	15.35	143.93	120.90
1	B	72	U	O3'-P-O5'	15.35	127.03	104.00
1	B	2076	U	OP2-P-O3'	-15.35	61.96	108.00
1	B	2244	U	P-O5'-C5'	15.34	143.91	120.90
1	B	73	A	P-O3'-C3'	15.33	143.20	120.20
1	B	2893	A	P-O5'-C5'	15.32	143.87	120.90
1	B	2068	U	C4'-C3'-O3'	15.31	135.97	113.00
1	B	2869	G	P-O5'-C5'	15.31	143.86	120.90
1	B	1299	G	P-O5'-C5'	15.30	143.85	120.90
1	B	1133	A	O5'-C5'-C4'	15.29	134.44	111.50
1	B	1325	U	O5'-C5'-C4'	15.29	134.43	111.50
1	B	568	U	C4'-C3'-O3'	15.28	135.92	113.00
1	B	1011	G	O3'-P-O5'	-15.28	81.08	104.00
1	B	569	U	C4'-C3'-O3'	15.28	135.91	113.00
1	B	2838	G	O3'-P-O5'	-15.27	81.09	104.00
1	B	213	A	C4'-C3'-O3'	15.26	135.90	113.00
1	B	846	U	O5'-C5'-C4'	15.26	134.40	111.50
1	B	1468	U	O5'-C5'-C4'	15.25	134.38	111.50
1	B	331	C	C5'-C4'-C3'	15.25	138.88	116.00
1	B	514	A	P-O5'-C5'	15.24	143.76	120.90
1	B	1348	C	C5'-C4'-O4'	15.22	132.64	109.80
1	B	587	C	C5'-C4'-C3'	15.22	138.83	116.00
1	B	990	A	OP2-P-O3'	-15.22	62.34	108.00
1	B	847	U	C4'-C3'-O3'	15.21	135.82	113.00
1	B	1932	A	C5'-C4'-C3'	15.20	138.81	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1996	C	O3'-P-O5'	15.20	126.81	104.00
1	B	780	G	P-O5'-C5'	15.20	143.70	120.90
1	B	1988	G	P-O3'-C3'	-15.20	97.40	120.20
1	B	1884	G	C5'-C4'-O4'	15.19	132.59	109.80
1	B	2454	G	C5'-C4'-C3'	15.19	138.78	116.00
1	B	1040	A	O3'-P-O5'	-15.18	81.22	104.00
1	B	1097	U	C4'-C3'-C2'	-15.18	87.42	102.60
1	B	231	A	O3'-P-O5'	-15.17	81.24	104.00
1	B	98	G	C5'-C4'-C3'	15.16	138.74	116.00
1	B	298	G	C4'-C3'-O3'	15.16	135.74	113.00
1	B	856	G	O3'-P-O5'	15.15	126.73	104.00
1	B	51	G	P-O3'-C3'	15.15	142.92	120.20
1	B	2086	U	C4'-C3'-O3'	-15.14	90.29	113.00
1	B	130	C	OP1-P-O3'	15.13	153.39	108.00
1	B	2684	U	O3'-P-O5'	15.13	126.69	104.00
1	B	898	C	O3'-P-O5'	-15.13	81.31	104.00
1	B	734	A	C5'-C4'-C3'	15.11	138.66	116.00
1	B	531	C	P-O5'-C5'	15.10	143.55	120.90
1	B	1900	A	O3'-P-O5'	-15.09	81.36	104.00
1	B	915	C	O3'-P-O5'	15.06	126.60	104.00
1	B	1781	U	P-O5'-C5'	15.04	143.46	120.90
1	B	1951	U	O3'-P-O5'	15.04	126.56	104.00
1	B	1944	U	P-O5'-C5'	15.04	166.00	120.90
1	B	2739	U	P-O5'-C5'	15.03	143.45	120.90
1	B	2474	U	P-O5'-C5'	15.03	143.44	120.90
1	B	2440	C	P-O5'-C5'	14.99	143.39	120.90
1	B	2406	A	P-O3'-C3'	14.97	142.66	120.20
1	B	802	A	P-O3'-C3'	14.97	142.65	120.20
1	B	859	G	P-O3'-C3'	-14.96	97.75	120.20
1	B	1470	A	C4'-C3'-O3'	14.96	135.45	113.00
1	B	2082	A	P-O5'-C5'	14.96	143.34	120.90
1	B	2629	U	C4'-C3'-O3'	14.96	135.44	113.00
1	B	221	A	C4'-C3'-O3'	14.96	135.43	113.00
1	B	432	A	C4'-C3'-O3'	14.95	135.42	113.00
1	B	669	G	O3'-P-O5'	14.94	126.41	104.00
1	B	905	A	O3'-P-O5'	-14.94	81.60	104.00
1	B	2512	C	P-O3'-C3'	14.92	142.58	120.20
1	B	2870	C	C5'-C4'-C3'	14.92	138.38	116.00
1	B	9	G	P-O5'-C5'	14.91	143.26	120.90
1	B	973	A	O5'-C5'-C4'	14.91	133.87	111.50
1	B	2763	G	P-O5'-C5'	14.91	143.26	120.90
1	B	429	A	P-O5'-C5'	14.91	165.62	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	320	A	P-O3'-C3'	14.91	142.56	120.20
1	B	445	C	P-O3'-C3'	14.90	142.56	120.20
1	B	450	G	C5'-C4'-O4'	-14.90	87.45	109.80
1	B	323	C	P-O3'-C3'	-14.89	97.87	120.20
1	B	776	G	P-O3'-C3'	14.89	142.53	120.20
1	B	103	A	C5'-C4'-C3'	14.87	138.31	116.00
1	B	1680	U	C4'-C3'-O3'	14.87	135.31	113.00
1	B	1942	C	C4'-C3'-O3'	14.87	135.31	113.00
1	B	1675	C	C4'-C3'-O3'	-14.86	90.71	113.00
1	B	51	G	C2'-C3'-O3'	-14.86	91.41	113.70
1	B	1187	G	P-O5'-C5'	14.86	143.19	120.90
1	B	430	A	O3'-P-O5'	14.85	126.28	104.00
1	B	2112	G	O3'-P-O5'	14.85	126.27	104.00
1	B	716	A	P-O5'-C5'	14.84	143.16	120.90
1	B	2614	A	P-O5'-C5'	14.84	143.16	120.90
1	B	1970	A	C5'-C4'-O4'	-14.84	87.54	109.80
1	B	990	A	C4'-C3'-O3'	14.83	135.25	113.00
1	B	322	A	OP1-P-O3'	-14.83	63.51	108.00
1	B	1620	G	O3'-P-O5'	14.83	126.24	104.00
1	B	2598	A	P-O5'-C5'	14.83	143.14	120.90
1	B	1253	A	P-O5'-C5'	14.82	143.13	120.90
1	B	850	U	P-O3'-C3'	14.81	142.42	120.20
1	B	214	G	C5'-C4'-C3'	14.81	138.21	116.00
1	B	728	G	C4'-C3'-O3'	14.80	131.60	109.40
1	B	1712	U	O3'-P-O5'	-14.79	81.81	104.00
1	B	116	C	P-O3'-C3'	-14.79	98.02	120.20
1	B	1891	G	C5'-C4'-C3'	14.79	138.18	116.00
1	B	94	A	P-O5'-C5'	14.78	143.08	120.90
1	B	2887	A	C4'-C3'-O3'	14.77	135.16	113.00
1	B	2450	A	C4'-C3'-O3'	14.77	135.15	113.00
1	B	1347	A	O3'-P-O5'	14.76	126.15	104.00
1	B	684	G	C5'-C4'-C3'	14.76	138.13	116.00
1	B	75	G	C4'-C3'-O3'	14.75	142.00	112.50
1	B	213	A	P-O5'-C5'	14.75	143.02	120.90
1	B	1150	C	OP2-P-O3'	-14.74	63.76	108.00
1	B	222	A	P-O5'-C5'	14.72	142.99	120.90
1	B	386	G	P-O5'-C5'	14.72	142.99	120.90
1	B	2454	G	C4'-C3'-O3'	14.72	135.07	113.00
1	B	574	A	C5'-C4'-O4'	14.71	131.87	109.80
1	B	565	C	C4'-C3'-O3'	14.69	135.04	113.00
1	B	653	U	C4'-C3'-O3'	14.67	135.00	113.00
1	B	586	A	C2'-C3'-O3'	-14.66	91.72	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	50	U	P-O3'-C3'	14.65	142.17	120.20
1	B	1854	A	O5'-C5'-C4'	14.65	133.47	111.50
1	B	2610	C	C4'-C3'-O3'	14.64	134.96	113.00
1	B	1439	A	P-O5'-C5'	14.63	142.84	120.90
1	B	1971	U	C4'-C3'-O3'	14.62	134.93	113.00
1	B	1579	A	C4'-C3'-O3'	14.62	134.93	113.00
1	B	857	G	O3'-P-O5'	-14.62	82.08	104.00
1	B	1288	G	C5'-C4'-C3'	14.61	137.92	116.00
1	B	1856	U	C5'-C4'-O4'	-14.60	87.90	109.80
1	B	1103	A	O5'-P-OP2	-14.59	64.25	108.00
1	B	97	C	O3'-P-O5'	14.54	125.81	104.00
1	B	294	A	O5'-C5'-C4'	14.53	133.30	111.50
1	B	675	A	C5'-C4'-C3'	14.52	137.78	116.00
1	B	1914	C	P-O5'-C5'	14.52	142.68	120.90
1	B	396	G	P-O3'-C3'	-14.51	98.43	120.20
1	B	1109	C	C4'-C3'-O3'	14.51	134.76	113.00
1	B	1893	C	O3'-P-O5'	-14.50	82.25	104.00
1	B	193	U	O3'-P-O5'	-14.49	82.26	104.00
1	B	1131	G	O5'-C5'-C4'	14.49	133.24	111.50
1	B	2556	C	P-O5'-C5'	-14.49	99.17	120.90
1	B	2733	A	C4'-C3'-O3'	14.48	134.72	113.00
1	B	1252	G	C4'-C3'-O3'	14.47	134.71	113.00
1	B	2868	A	C4'-C3'-O3'	14.45	134.67	113.00
1	B	1128	G	P-O3'-C3'	14.44	141.86	120.20
1	B	2169	A	P-O5'-C5'	14.44	142.56	120.90
1	B	2734	A	O5'-C5'-C4'	14.44	133.16	111.50
1	B	458	G	P-O3'-C3'	14.42	141.83	120.20
1	B	1885	A	C5'-C4'-O4'	14.42	131.43	109.80
1	B	859	G	OP1-P-O3'	-14.41	64.78	108.00
1	B	84	A	C5'-C4'-C3'	14.40	137.60	116.00
1	B	168	G	P-O3'-C3'	14.40	141.79	120.20
1	B	1853	A	P-O3'-C3'	14.37	141.76	120.20
1	B	1848	A	C4'-C3'-O3'	14.37	130.95	109.40
1	B	1953	A	P-O5'-C5'	14.36	142.44	120.90
1	B	405	U	O3'-P-O5'	-14.36	82.46	104.00
1	B	275	C	O3'-P-O5'	14.35	125.53	104.00
1	B	198	C	P-O5'-C5'	14.35	142.42	120.90
1	B	1646	C	P-O5'-C5'	14.35	142.42	120.90
1	B	981	A	P-O5'-C5'	14.34	142.40	120.90
1	B	60	G	O3'-P-O5'	-14.33	82.50	104.00
1	B	2393	U	P-O5'-C5'	14.33	142.40	120.90
1	B	2846	G	C4'-C3'-O3'	14.33	134.49	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2283	C	P-O5'-C5'	14.33	142.39	120.90
1	B	2777	G	P-O5'-C5'	14.32	142.39	120.90
1	B	942	G	O5'-C5'-C4'	14.31	132.97	111.50
1	B	502	A	P-O5'-C5'	14.31	142.36	120.90
1	B	1740	G	P-O5'-C5'	14.31	142.36	120.90
1	B	83	A	P-O5'-C5'	14.31	142.36	120.90
1	B	685	A	C4'-C3'-O3'	14.30	134.45	113.00
1	B	460	A	C4'-C3'-O3'	14.29	134.43	113.00
1	B	118	A	C5'-C4'-O4'	-14.27	88.39	109.80
1	B	1445	G	O5'-C5'-C4'	14.26	132.90	111.50
1	B	1943	U	P-O3'-C3'	14.26	141.59	120.20
1	B	2868	A	C5'-C4'-C3'	14.25	137.38	116.00
1	B	2352	A	O3'-P-O5'	-14.24	82.64	104.00
1	B	1049	C	C2'-C3'-O3'	-14.24	92.34	113.70
1	B	2713	U	OP2-P-O3'	14.23	150.70	108.00
1	B	1196	C	C5'-C4'-C3'	14.23	137.35	116.00
1	B	2454	G	O5'-C5'-C4'	14.23	132.85	111.50
1	B	483	A	O3'-P-O5'	-14.21	82.68	104.00
1	B	190	A	O3'-P-O5'	14.21	125.32	104.00
1	B	844	A	P-O3'-C3'	-14.21	98.89	120.20
1	B	2365	G	C4'-C3'-O3'	14.20	134.30	113.00
1	B	1791	A	O5'-C5'-C4'	14.19	132.79	111.50
1	B	99	U	O5'-C5'-C4'	14.18	132.78	111.50
1	B	431	U	P-O5'-C5'	14.18	142.18	120.90
1	B	1573	G	P-O5'-C5'	14.18	142.16	120.90
1	B	2382	G	O5'-C5'-C4'	14.18	132.76	111.50
1	B	2452	C	O3'-P-O5'	14.18	125.26	104.00
1	B	1454	C	C4'-C3'-O3'	14.17	134.26	113.00
1	B	2467	C	P-O3'-C3'	14.17	141.45	120.20
1	B	1528	A	C5'-C4'-O4'	14.15	131.02	109.80
1	B	179	C	C5'-C4'-C3'	14.14	137.22	116.00
1	B	1425	G	O3'-P-O5'	14.14	125.20	104.00
1	B	2726	A	P-O3'-C3'	14.13	141.39	120.20
1	B	278	A	C4'-C3'-O3'	14.12	134.17	113.00
1	B	2561	U	P-O3'-C3'	-14.11	99.03	120.20
1	B	1936	A	C5'-C4'-O4'	14.11	130.97	109.80
1	B	2645	G	O3'-P-O5'	-14.11	82.83	104.00
1	B	1558	C	P-O5'-C5'	14.10	142.04	120.90
1	B	2059	A	P-O5'-C5'	14.10	142.04	120.90
1	B	2846	G	C5'-C4'-C3'	-14.08	94.88	116.00
1	B	177	G	C5'-C4'-O4'	14.07	130.91	109.80
1	B	2371	G	O3'-P-O5'	-14.06	82.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	111	A	C5'-C4'-C3'	14.05	137.08	116.00
1	B	1133	A	C4'-C3'-O3'	14.05	134.08	113.00
1	B	1274	A	C4'-C3'-O3'	14.05	130.48	109.40
1	B	498	G	C4'-C3'-O3'	14.04	134.06	113.00
1	B	1133	A	C5'-C4'-C3'	14.04	137.06	116.00
1	B	1253	A	P-O3'-C3'	14.04	141.25	120.20
1	B	1240	U	P-O3'-C3'	-14.02	99.17	120.20
1	B	1606	C	C4'-C3'-O3'	14.01	134.01	113.00
1	B	2724	U	P-O5'-C5'	14.00	141.91	120.90
1	B	2165	C	P-O5'-C5'	14.00	141.90	120.90
1	B	526	A	C4'-C3'-O3'	13.99	133.99	113.00
1	B	477	A	P-O5'-C5'	13.99	141.89	120.90
1	B	15	G	O3'-P-O5'	-13.98	83.03	104.00
1	B	1668	A	O3'-P-O5'	13.98	124.98	104.00
1	B	2067	G	O3'-P-O5'	13.98	124.97	104.00
1	B	2439	A	C4'-C3'-O3'	13.97	133.96	113.00
1	B	2873	A	P-O5'-C5'	13.97	141.86	120.90
1	B	477	A	C5'-C4'-C3'	13.96	136.94	116.00
1	B	1040	A	P-O3'-C3'	13.96	141.14	120.20
1	B	859	G	P-O5'-C5'	13.96	141.83	120.90
1	B	92	U	P-O3'-C3'	13.95	141.12	120.20
1	B	704	G	C4'-C3'-O3'	13.95	133.92	113.00
1	B	1254	A	O5'-C5'-C4'	13.93	132.40	111.50
1	B	498	G	O5'-C5'-C4'	13.93	132.39	111.50
1	B	466	A	C4'-C3'-O3'	13.92	133.88	113.00
1	B	2013	A	C5'-C4'-C3'	13.91	136.07	115.20
1	B	2322	A	C5'-C4'-C3'	13.91	143.83	116.00
1	B	1936	A	O5'-C5'-C4'	13.91	132.37	111.50
1	B	1963	U	P-O5'-C5'	13.91	141.76	120.90
1	B	931	U	O3'-P-O5'	-13.90	83.14	104.00
1	B	2020	A	C5'-C4'-C3'	13.90	136.05	115.20
1	B	1104	C	N1-C1'-C2'	13.90	132.84	112.00
1	B	2775	G	P-O5'-C5'	13.90	141.74	120.90
1	B	227	A	C5'-C4'-C3'	13.89	136.84	116.00
1	B	1309	G	P-O5'-C5'	13.89	141.74	120.90
1	B	630	G	P-O5'-C5'	13.88	141.72	120.90
1	B	206	U	P-O3'-C3'	-13.88	99.39	120.20
1	B	2750	A	O3'-P-O5'	13.88	124.82	104.00
1	B	2356	U	P-O5'-C5'	13.87	141.70	120.90
1	B	863	A	O3'-P-O5'	-13.86	83.22	104.00
1	B	1445	G	C5'-C4'-O4'	-13.86	89.02	109.80
1	B	1426	G	C5'-C4'-C3'	13.85	136.77	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	320	A	C5'-C4'-O4'	-13.84	89.04	109.80
1	B	901	C	C2'-C3'-O3'	13.83	134.45	113.70
1	B	2598	A	C4'-C3'-O3'	13.83	133.74	113.00
1	B	469	G	P-O5'-C5'	13.81	141.62	120.90
1	B	98	G	C4'-C3'-O3'	13.81	133.72	113.00
1	B	988	A	C4'-C3'-O3'	13.81	133.72	113.00
1	B	1196	C	O5'-C5'-C4'	13.80	132.20	111.50
1	B	1828	G	C5'-C4'-C3'	13.79	136.69	116.00
1	B	1942	C	P-O3'-C3'	13.79	140.89	120.20
1	B	1131	G	C5'-C4'-O4'	13.79	130.48	109.80
1	B	1271	G	C5'-C4'-C3'	13.79	136.68	116.00
1	B	2595	G	C5'-C4'-O4'	13.78	130.48	109.80
1	B	11	C	C5'-C4'-C3'	13.78	136.67	116.00
1	B	1049	C	C4'-C3'-O3'	13.77	133.66	113.00
1	B	1249	U	C4'-C3'-O3'	13.77	133.65	113.00
1	B	51	G	C5'-C4'-O4'	-13.76	89.16	109.80
1	B	276	U	O5'-C5'-C4'	13.76	132.15	111.50
1	B	546	U	P-O5'-C5'	13.76	141.54	120.90
1	B	234	U	O3'-P-O5'	-13.76	83.36	104.00
1	B	505	A	P-O5'-C5'	13.76	141.54	120.90
1	B	428	A	O5'-C5'-C4'	13.75	132.12	111.50
1	B	2834	G	C2'-C3'-O3'	13.75	134.32	113.70
1	B	1282	U	C5'-C4'-O4'	13.75	130.42	109.80
1	B	940	G	P-O3'-C3'	-13.74	99.58	120.20
1	B	650	C	P-O3'-C3'	-13.73	99.60	120.20
1	B	278	A	P-O5'-C5'	13.73	141.49	120.90
1	B	294	A	C5'-C4'-O4'	13.72	130.38	109.80
1	B	2629	U	O3'-P-O5'	-13.72	83.42	104.00
1	B	670	A	C5'-C4'-O4'	13.72	130.38	109.80
1	B	1930	G	O3'-P-O5'	-13.71	83.44	104.00
1	B	2738	A	P-O5'-C5'	13.70	141.46	120.90
1	B	1115	G	P-O5'-C5'	13.69	141.44	120.90
1	B	111	A	C4'-C3'-O3'	13.69	133.53	113.00
1	B	1310	G	C4'-C3'-O3'	13.69	133.53	113.00
1	B	1819	A	P-O5'-C5'	13.67	141.40	120.90
1	B	1024	G	O5'-C5'-C4'	13.66	131.98	111.50
1	B	1745	A	P-O5'-C5'	13.64	141.36	120.90
1	B	1853	A	C5'-C4'-C3'	13.63	136.45	116.00
1	B	1854	A	C5'-C4'-C3'	13.63	136.45	116.00
1	B	2859	G	O3'-P-O5'	-13.63	83.56	104.00
1	B	1738	G	O3'-P-O5'	-13.62	83.58	104.00
1	B	1679	A	C4'-C3'-O3'	13.60	133.40	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1281	G	O3'-P-O5'	-13.60	83.61	104.00
1	B	2297	A	P-O3'-C3'	13.59	140.58	120.20
1	B	1856	U	O3'-P-O5'	13.58	124.37	104.00
1	B	906	U	P-O5'-C5'	13.56	141.24	120.90
1	B	1927	A	O3'-P-O5'	13.56	124.34	104.00
1	B	1753	G	P-O5'-C5'	13.55	141.22	120.90
1	B	2733	A	C5'-C4'-C3'	13.55	136.32	116.00
1	B	984	A	O3'-P-O5'	-13.54	83.69	104.00
1	B	585	G	P-O3'-C3'	13.52	140.48	120.20
1	B	368	A	C5'-C4'-C3'	13.50	136.25	116.00
1	B	1049	C	P-O5'-C5'	13.49	141.14	120.90
1	B	2609	U	C5'-C4'-C3'	13.49	136.24	116.00
1	B	34	U	C4'-C3'-O3'	13.48	133.23	113.00
1	B	227	A	P-O5'-C5'	13.47	141.11	120.90
1	B	2591	C	O3'-P-O5'	-13.47	83.80	104.00
1	B	93	G	O3'-P-O5'	13.46	124.19	104.00
1	B	529	A	O3'-P-O5'	-13.46	83.81	104.00
1	B	1010	A	O3'-P-O5'	-13.46	83.81	104.00
1	B	1952	A	C5'-C4'-O4'	13.46	129.98	109.80
1	B	1680	U	C5'-C4'-C3'	13.44	136.16	116.00
1	B	360	U	P-O5'-C5'	13.44	141.06	120.90
1	B	2158	A	C5'-C4'-C3'	13.42	136.14	116.00
1	B	2849	U	C4'-C3'-O3'	13.42	133.13	113.00
1	B	2382	G	C2'-C3'-O3'	-13.42	93.57	113.70
1	B	369	U	P-O5'-C5'	13.41	141.01	120.90
1	B	197	A	O3'-P-O5'	-13.41	83.89	104.00
1	B	1026	G	P-O5'-C5'	13.40	141.01	120.90
1	B	1641	A	P-O3'-C3'	-13.40	100.10	120.20
1	B	1214	A	P-O5'-C5'	13.39	140.99	120.90
1	B	2309	A	P-O5'-C5'	13.39	140.98	120.90
1	B	94	A	P-O3'-C3'	13.38	140.28	120.20
1	B	2173	A	P-O5'-C5'	13.38	140.97	120.90
1	B	264	C	C4'-C3'-O3'	13.36	133.04	113.00
1	B	974	G	C4'-C3'-O3'	13.36	133.04	113.00
1	B	2167	U	O3'-P-O5'	-13.36	83.95	104.00
1	B	728	G	P-O5'-C5'	13.36	140.94	120.90
1	B	1731	G	P-O5'-C5'	13.35	140.92	120.90
1	B	1008	A	C5'-C4'-O4'	13.34	129.82	109.80
1	B	453	A	O5'-C5'-C4'	13.33	131.50	111.50
1	B	98	G	O5'-C5'-C4'	13.33	131.50	111.50
1	B	779	U	C4'-C3'-O3'	13.32	132.97	113.00
1	B	2885	G	O3'-P-O5'	-13.32	84.02	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1586	A	C5'-C4'-C3'	13.31	135.97	116.00
1	B	1110	G	C4'-C3'-O3'	13.30	132.95	113.00
1	B	84	A	C5'-C4'-O4'	-13.29	89.86	109.80
1	B	446	G	C5'-C4'-C3'	13.29	135.94	116.00
1	B	792	A	P-O5'-C5'	13.29	140.83	120.90
1	B	776	G	C5'-C4'-O4'	-13.27	89.90	109.80
1	B	1272	A	O5'-C5'-C4'	13.26	131.40	111.50
1	B	1467	U	C4'-C3'-O3'	13.26	132.89	113.00
1	B	1876	A	C2'-C3'-O3'	13.26	133.58	113.70
1	B	601	C	P-O3'-C3'	-13.25	100.33	120.20
1	B	988	A	O5'-C5'-C4'	13.25	131.37	111.50
1	B	1125	G	C4'-C3'-O3'	13.24	132.86	113.00
1	B	1328	A	C5'-C4'-O4'	13.24	129.66	109.80
1	B	324	A	C4'-C3'-O3'	13.24	138.98	112.50
1	B	2878	U	P-O3'-C3'	-13.23	100.35	120.20
1	B	60	G	C4'-C3'-O3'	13.22	132.83	113.00
1	B	294	A	O3'-P-O5'	-13.22	84.17	104.00
1	B	118	A	O3'-P-O5'	13.22	123.83	104.00
1	B	1100	C	O4'-C4'-C3'	-13.21	90.78	104.00
1	B	322	A	P-O3'-C3'	-13.20	100.41	120.20
1	B	2156	G	P-O5'-C5'	13.20	140.69	120.90
1	B	2867	G	C5'-C4'-C3'	13.19	135.78	116.00
1	B	1752	C	C5'-C4'-C3'	13.18	135.77	116.00
1	B	64	A	C5'-C4'-O4'	-13.17	90.05	109.80
1	B	1566	A	P-O3'-C3'	13.17	139.95	120.20
1	B	1116	G	P-O5'-C5'	13.16	140.64	120.90
1	B	1847	A	O3'-P-O5'	13.16	123.74	104.00
1	B	564	C	C4'-C3'-O3'	13.16	132.74	113.00
1	B	1681	G	C4'-C3'-O3'	-13.15	93.28	113.00
1	B	1047	G	C5'-C4'-C3'	-13.13	96.31	116.00
1	B	2847	U	C5'-C4'-O4'	13.13	129.49	109.80
1	B	528	A	C4'-C3'-O3'	13.12	132.69	113.00
1	B	1578	U	P-O3'-C3'	-13.12	100.52	120.20
1	B	1680	U	O3'-P-O5'	-13.12	84.32	104.00
1	B	1715	G	C2'-C3'-O3'	13.11	133.37	113.70
1	B	684	G	P-O3'-C3'	13.11	139.86	120.20
1	B	699	A	C5'-C4'-C3'	13.11	135.66	116.00
1	B	28	A	O5'-C5'-C4'	13.10	131.15	111.50
1	B	2058	A	C5'-C4'-C3'	13.09	135.64	116.00
1	B	497	A	C5'-C4'-C3'	13.08	135.62	116.00
1	B	2055	C	P-O3'-C3'	-13.07	100.59	120.20
1	B	1326	U	O3'-P-O5'	13.07	123.61	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1866	A	O5'-P-OP2	-13.06	68.82	108.00
1	B	464	U	P-O5'-C5'	13.05	140.47	120.90
1	B	1667	G	O3'-P-O5'	13.05	123.57	104.00
1	B	2167	U	O5'-C5'-C4'	13.04	131.07	111.50
1	B	1610	A	O5'-C5'-C4'	13.03	131.04	111.50
1	B	1745	A	O3'-P-O5'	-13.03	84.46	104.00
1	B	1090	A	C1'-C2'-O2'	13.02	127.93	108.40
1	B	2879	A	C5'-C4'-O4'	13.02	129.33	109.80
1	B	14	A	P-O3'-C3'	13.02	139.72	120.20
1	B	1329	U	C2'-C3'-O3'	13.01	133.22	113.70
1	B	866	A	P-O5'-C5'	13.01	140.41	120.90
1	B	2687	U	C4'-C3'-O3'	13.01	132.51	113.00
1	B	527	C	P-O5'-C5'	12.99	140.38	120.90
1	B	788	A	O5'-C5'-C4'	12.99	130.98	111.50
1	B	1108	U	P-O3'-C3'	-12.98	100.73	120.20
1	B	1752	C	C4'-C3'-O3'	12.98	132.47	113.00
1	B	1855	U	C4'-C3'-O3'	12.98	132.47	113.00
1	B	2685	G	O5'-C5'-C4'	12.98	130.96	111.50
1	B	836	G	C4'-C3'-O3'	12.97	132.46	113.00
1	B	2345	G	C5'-C4'-C3'	12.97	135.46	116.00
1	B	1470	A	C5'-C4'-C3'	12.97	135.45	116.00
1	B	699	A	O5'-C5'-C4'	12.96	130.95	111.50
1	B	2424	C	C5'-C4'-C3'	12.96	135.45	116.00
1	B	101	A	C4'-C3'-O3'	-12.95	93.57	113.00
1	B	1585	C	C4'-C3'-O3'	12.95	132.42	113.00
1	B	470	A	C4'-C3'-O3'	12.95	132.42	113.00
1	B	2688	G	P-O5'-C5'	12.95	140.32	120.90
1	B	564	C	C5'-C4'-C3'	12.91	135.37	116.00
1	B	608	A	C5'-C4'-C3'	12.91	135.37	116.00
1	B	2891	U	C4'-C3'-O3'	12.91	132.37	113.00
1	B	799	G	P-O3'-C3'	12.90	139.56	120.20
1	B	2469	A	C4'-C3'-O3'	12.90	132.35	113.00
1	B	867	C	P-O5'-C5'	12.90	140.25	120.90
1	B	2477	U	O3'-P-O5'	-12.90	84.65	104.00
1	B	532	A	P-O5'-C5'	12.90	140.25	120.90
1	B	676	A	O3'-P-O5'	-12.90	84.66	104.00
1	B	2179	C	P-O5'-C5'	12.89	140.24	120.90
1	B	2157	G	O5'-C5'-C4'	12.88	130.82	111.50
1	B	783	A	C4'-C3'-O3'	12.88	132.32	113.00
1	B	1241	A	C4'-C3'-O3'	12.88	132.32	113.00
1	B	2723	C	P-O5'-C5'	12.88	140.22	120.90
1	B	47	C	C4'-C3'-O3'	12.88	132.32	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	319	G	P-O3'-C3'	-12.87	100.89	120.20
1	B	47	C	O5'-C5'-C4'	12.87	130.80	111.50
1	B	1569	A	C5'-C4'-C3'	12.87	135.30	116.00
1	B	1970	A	C5'-C4'-C3'	12.86	135.30	116.00
1	B	2628	C	C5'-C4'-C3'	12.86	135.29	116.00
1	B	1254	A	C4'-C3'-O3'	12.85	132.27	113.00
1	B	1990	C	C2'-C3'-O3'	-12.85	94.43	113.70
1	B	2155	U	O3'-P-O5'	12.84	123.27	104.00
1	B	2684	U	C4'-C3'-O3'	12.84	132.26	113.00
1	B	279	A	C5'-C4'-C3'	12.82	135.23	116.00
1	B	1546	G	C5'-C4'-C3'	12.82	135.22	116.00
1	B	673	C	C5'-C4'-C3'	12.81	135.22	116.00
1	B	560	C	P-O3'-C3'	12.80	139.40	120.20
1	B	1050	A	C4'-C3'-O3'	-12.80	93.80	113.00
1	B	1205	A	C5'-C4'-C3'	12.80	135.20	116.00
1	B	2846	G	O5'-C5'-C4'	12.80	130.70	111.50
1	B	2041	U	C5'-C4'-C3'	12.79	135.19	116.00
1	B	651	G	O5'-C5'-C4'	12.78	130.67	111.50
1	B	1968	G	P-O5'-C5'	12.77	140.06	120.90
1	B	2322	A	O5'-C5'-C4'	12.77	136.04	110.50
1	B	227	A	O3'-P-O5'	-12.77	84.84	104.00
1	B	434	U	O3'-P-O5'	-12.77	84.85	104.00
1	B	800	A	C5'-C4'-C3'	12.77	135.15	116.00
1	B	181	A	C4'-C3'-O3'	12.76	132.14	113.00
1	B	1664	A	C5'-C4'-O4'	12.75	128.93	109.80
1	B	2012	G	P-O5'-C5'	12.75	140.03	120.90
1	B	322	A	O5'-C5'-C4'	12.75	130.62	111.50
1	B	2051	A	O5'-C5'-C4'	12.74	130.61	111.50
1	B	1327	A	C4'-C3'-O3'	12.73	132.10	113.00
1	B	1251	C	C4'-C3'-O3'	12.73	132.10	113.00
1	B	2586	U	P-O5'-C5'	12.73	140.00	120.90
1	B	99	U	O3'-P-O5'	12.72	123.09	104.00
1	B	164	C	P-O5'-C5'	12.72	139.99	120.90
1	B	112	U	C5'-C4'-C3'	12.71	135.07	116.00
1	B	457	A	P-O5'-C5'	12.71	139.97	120.90
1	B	383	C	O3'-P-O5'	-12.71	84.94	104.00
1	B	499	U	O5'-C5'-C4'	12.71	130.56	111.50
1	B	1028	A	P-O5'-C5'	12.71	139.96	120.90
1	B	399	U	P-O3'-C3'	12.70	139.25	120.20
1	B	457	A	C4'-C3'-O3'	12.69	132.04	113.00
1	B	478	A	C2'-C3'-O3'	-12.69	94.66	113.70
1	B	2497	A	C5'-C4'-C3'	12.68	135.02	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	763	G	O3'-P-O5'	-12.67	84.99	104.00
1	B	1784	A	O3'-P-O5'	-12.66	85.01	104.00
1	B	1810	A	O3'-P-O5'	-12.66	85.01	104.00
1	B	2596	U	P-O5'-C5'	12.66	139.88	120.90
1	B	1416	G	C4'-C3'-O3'	12.65	131.97	113.00
1	B	118	A	P-O3'-C3'	12.64	139.17	120.20
1	B	2366	A	P-O5'-C5'	12.64	139.86	120.90
1	B	94	A	C5'-C4'-C3'	12.63	134.95	116.00
1	B	1028	A	C5'-C4'-O4'	-12.63	90.85	109.80
1	B	2843	G	P-O3'-C3'	-12.63	101.25	120.20
1	B	1869	G	P-O5'-C5'	12.63	139.84	120.90
1	B	652	U	C5'-C4'-C3'	12.62	134.93	116.00
1	B	1817	G	O3'-P-O5'	-12.59	85.12	104.00
1	B	2810	A	O5'-C5'-C4'	12.58	130.38	111.50
1	B	2848	G	O3'-P-O5'	12.57	122.86	104.00
1	B	1371	G	C4'-C3'-O3'	12.57	131.85	113.00
1	B	620	G	P-O5'-C5'	12.56	139.75	120.90
1	B	1528	A	C2'-C3'-O3'	-12.56	94.85	113.70
1	B	1859	U	C5'-C4'-O4'	12.56	128.65	109.80
1	B	2439	A	O5'-C5'-C4'	12.56	130.34	111.50
1	B	216	A	P-O5'-C5'	12.56	139.74	120.90
1	B	1428	C	O3'-P-O5'	-12.56	85.16	104.00
1	B	1936	A	O3'-P-O5'	12.56	122.83	104.00
1	B	1598	A	OP1-P-O3'	-12.55	70.35	108.00
1	B	14	A	C4'-C3'-O3'	-12.54	94.19	113.00
1	B	625	G	P-O5'-C5'	12.54	139.71	120.90
1	B	1196	C	C4'-C3'-O3'	12.53	131.79	113.00
1	B	1970	A	C4'-C3'-O3'	12.53	131.79	113.00
1	B	1677	A	C2'-C3'-O3'	12.52	132.48	113.70
1	B	2425	A	C4'-C3'-O3'	12.52	131.78	113.00
1	B	457	A	C5'-C4'-O4'	12.51	128.57	109.80
1	B	458	G	C2'-C3'-O3'	12.51	132.47	113.70
1	B	1846	G	O3'-P-O5'	-12.51	85.23	104.00
1	B	2453	A	C2'-C3'-O3'	-12.51	94.93	113.70
1	B	1427	A	C4'-C3'-O3'	12.50	131.75	113.00
1	B	1031	G	P-O3'-C3'	-12.50	101.45	120.20
1	B	1579	A	P-O5'-C5'	12.50	139.65	120.90
1	B	1135	C	O5'-C5'-C4'	12.50	130.25	111.50
1	B	1944	U	C5'-C4'-O4'	-12.48	72.07	109.50
1	B	2844	G	C5'-C4'-C3'	12.47	133.91	115.20
1	B	735	A	P-O3'-C3'	12.47	138.90	120.20
1	B	2468	A	P-O5'-C5'	12.46	139.60	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1640	A	C5'-C4'-C3'	12.46	134.69	116.00
1	B	988	A	P-O5'-C5'	12.46	139.59	120.90
1	B	2521	C	P-O3'-C3'	12.46	138.89	120.20
1	B	1348	C	P-O3'-C3'	-12.45	101.52	120.20
1	B	2062	A	O3'-P-O5'	-12.45	85.33	104.00
1	B	1720	U	P-O5'-C5'	12.44	139.56	120.90
1	B	1006	C	P-O3'-C3'	12.43	138.84	120.20
1	B	458	G	C5'-C4'-O4'	12.42	128.44	109.80
1	B	491	G	C4'-C3'-O3'	12.42	131.63	113.00
1	B	1432	G	O3'-P-O5'	-12.42	85.37	104.00
1	B	2233	U	C4'-C3'-O3'	12.41	131.61	113.00
1	B	320	A	O5'-C5'-C4'	12.40	130.10	111.50
1	B	1799	G	P-O3'-C3'	-12.40	101.61	120.20
1	B	1940	U	P-O3'-C3'	12.40	138.79	120.20
1	B	1007	C	C5'-C4'-O4'	12.39	128.39	109.80
1	B	2322	A	P-O3'-C3'	12.39	138.78	120.20
1	B	449	A	O3'-P-O5'	12.38	122.58	104.00
1	B	179	C	C4'-C3'-O3'	12.38	131.57	113.00
1	B	1783	A	O3'-P-O5'	-12.37	85.45	104.00
1	B	2682	A	P-O5'-C5'	12.37	139.45	120.90
1	B	43	G	P-O3'-C3'	-12.36	101.66	120.20
1	B	432	A	P-O5'-C5'	12.35	139.42	120.90
1	B	2825	G	O3'-P-O5'	-12.35	85.47	104.00
1	B	1753	G	O5'-C5'-C4'	12.35	130.02	111.50
1	B	830	G	O3'-P-O5'	-12.34	85.49	104.00
1	B	2307	G	P-O5'-C5'	12.34	139.41	120.90
1	B	1458	U	O3'-P-O5'	-12.34	85.50	104.00
1	B	1672	A	P-O5'-C5'	12.34	139.41	120.90
1	B	2042	A	O5'-C5'-C4'	12.34	130.00	111.50
1	B	2450	A	O5'-C5'-C4'	12.34	130.01	111.50
1	B	1852	U	C5'-C4'-C3'	12.33	134.50	116.00
1	B	2132	U	C4'-C3'-O3'	12.33	131.49	113.00
1	B	98	G	O3'-P-O5'	12.33	122.49	104.00
1	B	213	A	O5'-C5'-C4'	12.32	129.99	111.50
1	B	449	A	P-O3'-C3'	12.32	138.68	120.20
1	B	2173	A	P-O3'-C3'	12.32	138.68	120.20
1	B	2821	A	C5'-C4'-O4'	12.31	128.27	109.80
1	B	980	A	P-O5'-C5'	12.30	139.34	120.90
1	B	2327	A	O3'-P-O5'	-12.29	85.56	104.00
1	B	1134	A	C4'-C3'-O3'	12.29	131.43	113.00
1	B	1855	U	P-O3'-C3'	12.27	138.61	120.20
1	B	2082	A	O3'-P-O5'	-12.27	85.59	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2556	C	P-O3'-C3'	12.27	138.61	120.20
1	B	1653	G	C2'-C3'-O3'	12.27	132.10	113.70
1	B	101	A	P-O5'-C5'	12.27	139.30	120.90
1	B	1354	A	C4'-C3'-O3'	12.27	131.40	113.00
1	B	2438	U	P-O3'-C3'	12.26	138.59	120.20
1	B	2158	A	C2'-C3'-O3'	12.26	132.09	113.70
1	B	1033	U	C5'-C4'-O4'	12.25	128.18	109.80
1	B	1050	A	P-O3'-C3'	-12.25	101.83	120.20
1	B	1129	A	O5'-C5'-C4'	12.25	129.87	111.50
1	B	1870	C	O5'-C5'-C4'	12.24	129.86	111.50
1	B	811	U	C4'-C3'-O3'	12.24	131.35	113.00
1	B	1522	A	C2'-C3'-O3'	12.23	132.05	113.70
1	B	2136	G	P-O5'-C5'	12.23	139.24	120.90
1	B	14	A	O3'-P-O5'	12.22	122.34	104.00
1	B	2738	A	C4'-C3'-O3'	12.22	131.32	113.00
1	B	684	G	P-O5'-C5'	12.21	139.21	120.90
1	B	2890	G	C5'-C4'-O4'	12.21	128.12	109.80
1	B	400	G	P-O5'-C5'	12.21	139.21	120.90
1	B	2626	C	P-O5'-C5'	12.20	139.19	120.90
1	B	487	C	P-O3'-C3'	12.19	138.49	120.20
1	B	2453	A	C5'-C4'-C3'	12.18	134.27	116.00
1	B	26	G	O5'-C5'-C4'	12.18	129.77	111.50
1	B	1326	U	C5'-C4'-C3'	12.18	134.27	116.00
1	B	60	G	C2'-C3'-O3'	-12.18	95.44	113.70
1	B	2451	A	C4'-C3'-O3'	12.18	131.26	113.00
1	B	256	A	P-O3'-C3'	12.17	138.46	120.20
1	B	1564	C	O3'-P-O5'	-12.17	85.74	104.00
1	B	735	A	C5'-C4'-C3'	12.17	134.26	116.00
1	B	1885	A	C4'-C3'-O3'	-12.17	94.74	113.00
1	B	836	G	O5'-C5'-C4'	12.17	129.75	111.50
1	B	1925	C	C4'-C3'-O3'	12.17	127.65	109.40
1	B	450	G	C4'-C3'-O3'	12.16	131.24	113.00
1	B	92	U	O5'-C5'-C4'	12.15	129.72	111.50
1	B	411	G	C4'-C3'-O3'	12.15	131.22	113.00
1	B	1432	G	P-O3'-C3'	12.14	138.42	120.20
1	B	472	A	P-O5'-C5'	-12.14	102.69	120.90
1	B	2617	U	O3'-P-O5'	-12.14	85.79	104.00
1	B	434	U	P-O3'-C3'	12.13	138.40	120.20
1	B	2453	A	O3'-P-O5'	12.13	122.20	104.00
1	B	2645	G	P-O3'-C3'	12.13	138.39	120.20
1	B	2359	C	P-O5'-C5'	12.12	139.08	120.90
1	B	2453	A	C4'-C3'-O3'	12.12	131.18	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2754	U	C2'-C3'-O3'	12.12	131.88	113.70
1	B	2689	U	C4'-C3'-O3'	12.12	131.18	113.00
1	B	1528	A	P-O3'-C3'	-12.12	102.03	120.20
1	B	1676	A	P-O5'-C5'	-12.11	102.73	120.90
1	B	1967	C	P-O3'-C3'	12.11	138.37	120.20
1	B	127	A	C5'-C4'-C3'	12.11	133.36	115.20
1	B	1242	U	C4'-C3'-O3'	12.11	131.16	113.00
1	B	2287	A	P-O3'-C3'	12.10	138.36	120.20
1	B	2184	A	O3'-P-O5'	-12.10	85.85	104.00
1	B	1242	U	P-O3'-C3'	12.10	138.35	120.20
1	B	1451	C	O3'-P-O5'	12.10	122.15	104.00
1	B	1126	A	C5'-C4'-O4'	-12.08	91.68	109.80
1	B	2438	U	O3'-P-O5'	-12.08	85.88	104.00
1	B	2210	U	C4'-C3'-O3'	12.08	131.12	113.00
1	B	988	A	C5'-C4'-C3'	12.07	134.11	116.00
1	B	256	A	P-O5'-C5'	12.07	139.00	120.90
1	B	1134	A	P-O5'-C5'	12.07	139.00	120.90
1	B	1737	G	C4'-C3'-O3'	12.06	131.10	113.00
1	B	2130	U	C4'-C3'-O3'	12.04	131.07	113.00
1	B	1545	A	C5'-C4'-C3'	12.03	134.04	116.00
1	B	735	A	P-O5'-C5'	12.03	138.94	120.90
1	B	1467	U	O5'-C5'-C4'	12.03	129.54	111.50
1	B	1311	G	C4'-C3'-O3'	12.02	131.03	113.00
1	B	616	A	P-O5'-C5'	12.02	138.93	120.90
1	B	978	G	O3'-P-O5'	-12.01	85.98	104.00
1	B	1970	A	C2'-C3'-O3'	-12.01	95.68	113.70
1	B	1048	A	P-O5'-C5'	12.01	138.91	120.90
1	B	1553	A	O3'-P-O5'	-12.00	86.00	104.00
1	B	2162	G	C4'-C3'-O3'	12.00	131.00	113.00
1	B	1426	G	C4'-C3'-O3'	11.99	130.99	113.00
1	B	1294	U	P-O3'-C3'	-11.98	102.23	120.20
1	B	916	G	C4'-C3'-O3'	11.98	130.97	113.00
1	B	504	A	C5'-C4'-C3'	11.97	133.96	116.00
1	B	573	U	C5'-C4'-C3'	11.97	133.96	116.00
1	B	2721	A	O3'-P-O5'	-11.97	86.04	104.00
1	B	1699	G	O3'-P-O5'	-11.97	86.04	104.00
1	B	1752	C	O5'-C5'-C4'	11.97	129.45	111.50
1	B	2629	U	C5'-C4'-C3'	11.97	133.95	116.00
1	B	2719	G	C5'-C4'-O4'	11.97	127.75	109.80
1	B	2012	G	C2'-C3'-O3'	-11.96	95.75	113.70
1	B	1886	U	C5'-C4'-O4'	-11.96	91.86	109.80
1	B	585	G	C4'-C3'-O3'	11.96	130.94	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2562	U	C5'-C4'-C3'	11.96	133.14	115.20
1	B	804	A	C5'-C4'-C3'	11.96	133.94	116.00
1	B	932	U	C2'-C3'-O3'	11.96	131.63	113.70
1	B	1866	A	O5'-C5'-C4'	11.96	129.43	111.50
1	B	1033	U	P-O5'-C5'	-11.95	102.97	120.90
1	B	1274	A	C2'-C3'-O3'	11.95	127.42	109.50
1	B	802	A	C4'-C3'-O3'	11.95	127.32	109.40
1	B	2482	A	C4'-C3'-O3'	11.95	130.92	113.00
1	B	2554	U	O5'-C5'-C4'	11.94	129.40	111.50
1	B	2756	U	O3'-P-O5'	-11.94	86.10	104.00
1	B	263	G	C5'-C4'-C3'	11.93	133.90	116.00
1	B	1268	A	P-O3'-C3'	11.93	138.10	120.20
1	B	1756	G	P-O5'-C5'	11.93	138.79	120.90
1	B	1609	A	C5'-C4'-O4'	-11.93	91.91	109.80
1	B	2322	A	O5'-P-OP2	-11.93	74.92	110.70
1	B	1935	G	C4'-C3'-O3'	-11.93	95.11	113.00
1	B	111	A	O5'-C5'-C4'	11.92	129.39	111.50
1	B	906	U	C5'-C4'-O4'	11.92	127.68	109.80
1	B	139	U	C4'-C3'-O3'	11.92	130.88	113.00
1	B	1774	C	P-O5'-C5'	11.92	138.78	120.90
1	B	803	U	C4'-C3'-O3'	11.92	130.88	113.00
1	B	2719	G	O5'-C5'-C4'	11.91	129.37	111.50
1	B	1855	U	O3'-P-O5'	11.91	121.86	104.00
1	B	162	U	P-O5'-C5'	11.90	138.75	120.90
1	B	698	C	P-O3'-C3'	11.90	138.04	120.20
1	B	202	U	P-O5'-C5'	11.88	138.73	120.90
1	B	861	A	P-O3'-C3'	-11.87	102.39	120.20
1	B	14	A	O5'-C5'-C4'	11.87	129.30	111.50
1	B	626	A	C4'-C3'-O3'	11.86	130.79	113.00
1	B	916	G	P-O5'-C5'	11.85	138.68	120.90
1	B	2126	A	C4'-C3'-O3'	11.85	130.78	113.00
1	B	1419	A	C4'-C3'-O3'	-11.85	95.23	113.00
1	B	46	G	C5'-C4'-C3'	11.84	133.76	116.00
1	B	1928	A	C5'-C4'-O4'	11.84	127.55	109.80
1	B	1583	A	C4'-C3'-O3'	11.83	130.75	113.00
1	B	1990	C	P-O3'-C3'	11.83	137.94	120.20
1	B	2870	C	C2'-C3'-O3'	11.82	131.43	113.70
1	B	975	A	P-O3'-C3'	11.82	137.92	120.20
1	B	2057	G	P-O3'-C3'	-11.81	102.48	120.20
1	B	1383	A	C4'-C3'-O3'	11.81	130.72	113.00
1	B	2820	A	C2'-C3'-O3'	-11.80	96.00	113.70
1	B	1688	U	P-O5'-C5'	11.80	138.60	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1352	U	P-O5'-C5'	11.79	138.59	120.90
1	B	15	G	O5'-C5'-C4'	11.79	129.18	111.50
1	B	1428	C	C4'-C3'-O3'	11.79	130.68	113.00
1	B	113	U	C5'-C4'-C3'	-11.77	98.34	116.00
1	B	1108	U	C2'-C3'-O3'	11.77	131.36	113.70
1	B	677	A	C4'-C3'-O3'	-11.77	95.35	113.00
1	B	609	A	C2'-C3'-O3'	11.77	131.35	113.70
1	B	989	G	O5'-C5'-C4'	11.77	129.15	111.50
1	B	2321	U	OP2-P-O3'	-11.76	72.71	108.00
1	B	222	A	C5'-C4'-C3'	-11.76	98.36	116.00
1	B	1848	A	C2'-C3'-O3'	11.76	127.14	109.50
1	B	866	A	C5'-C4'-O4'	11.76	127.44	109.80
1	B	1012	U	C5'-C4'-O4'	11.76	127.44	109.80
1	B	2820	A	C5'-C4'-O4'	11.76	127.44	109.80
1	B	220	G	C4'-C3'-O3'	11.75	130.63	113.00
1	B	2335	A	O3'-P-O5'	-11.75	86.37	104.00
1	B	1029	A	O5'-C5'-C4'	11.75	129.12	111.50
1	B	785	G	P-O3'-C3'	11.74	137.82	120.20
1	B	221	A	O5'-C5'-C4'	11.74	129.11	111.50
1	B	571	U	C4'-C3'-O3'	11.74	130.61	113.00
1	B	1664	A	O5'-C5'-C4'	11.73	129.10	111.50
1	B	193	U	P-O3'-C3'	11.72	137.78	120.20
1	B	503	A	O3'-P-O5'	-11.72	86.42	104.00
1	B	1865	U	O3'-P-O5'	11.72	121.58	104.00
1	B	1475	G	C5'-C4'-C3'	11.71	133.56	116.00
1	B	1438	U	C5'-C4'-C3'	11.70	133.55	116.00
1	B	181	A	C5'-C4'-C3'	11.69	133.54	116.00
1	B	1125	G	O5'-C5'-C4'	11.69	129.04	111.50
1	B	416	U	P-O3'-C3'	11.69	137.73	120.20
1	B	1647	U	C5'-C4'-C3'	11.68	133.52	116.00
1	B	1602	U	P-O5'-C5'	11.68	138.41	120.90
1	B	1566	A	O3'-P-O5'	11.67	121.50	104.00
1	B	2713	U	OP1-P-O3'	-11.67	73.00	108.00
1	B	1944	U	C5'-C4'-C3'	11.66	150.99	116.00
1	B	1131	G	P-O3'-C3'	-11.66	102.71	120.20
1	B	1521	G	C4'-C3'-O3'	11.65	130.48	113.00
1	B	1971	U	P-O3'-C3'	11.65	137.68	120.20
1	B	127	A	O3'-P-O5'	-11.65	86.53	104.00
1	B	2879	A	C4'-C3'-O3'	-11.64	95.53	113.00
1	B	1510	G	P-O5'-C5'	11.63	138.34	120.90
1	B	1127	A	C5'-C4'-C3'	11.62	133.43	116.00
1	B	2496	C	O3'-P-O5'	-11.62	86.57	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	178	G	O3'-P-O5'	-11.62	86.58	104.00
1	B	762	U	C5'-C4'-O4'	-11.62	92.38	109.80
1	B	1211	C	P-O5'-C5'	11.62	138.32	120.90
1	B	1377	G	C4'-C3'-O3'	11.62	130.43	113.00
1	B	725	G	C2'-C3'-O3'	11.61	131.12	113.70
1	B	878	A	C5'-C4'-C3'	11.61	133.42	116.00
1	B	112	U	C4'-C3'-O3'	11.61	130.41	113.00
1	B	1383	A	C5'-C4'-C3'	11.60	133.40	116.00
1	B	1866	A	C5'-C4'-O4'	-11.60	92.40	109.80
1	B	276	U	C2'-C3'-O3'	-11.60	96.30	113.70
1	B	776	G	C4'-C3'-O3'	11.60	130.40	113.00
1	B	443	A	P-O5'-C5'	11.59	138.29	120.90
1	B	1652	A	O3'-P-O5'	-11.58	86.63	104.00
1	B	726	G	P-O5'-C5'	11.58	138.27	120.90
1	B	801	G	C5'-C4'-C3'	11.57	133.35	116.00
1	B	1971	U	C2'-C3'-O3'	-11.57	96.34	113.70
1	B	2627	G	C4'-C3'-O3'	11.57	130.35	113.00
1	B	1521	G	O3'-P-O5'	-11.57	86.65	104.00
1	B	113	U	C5'-C4'-O4'	11.56	127.14	109.80
1	B	1679	A	P-O3'-C3'	11.56	137.54	120.20
1	B	1242	U	P-O5'-C5'	11.56	138.24	120.90
1	B	1032	A	C5'-C4'-O4'	11.56	127.14	109.80
1	B	374	A	C5'-C4'-C3'	11.55	133.33	116.00
1	B	361	G	C4'-C3'-O3'	11.55	130.33	113.00
1	B	432	A	C5'-C4'-C3'	11.55	133.33	116.00
1	B	368	A	O3'-P-O5'	11.55	121.32	104.00
1	B	483	A	P-O3'-C3'	11.55	137.52	120.20
1	B	299	A	O5'-C5'-C4'	11.55	128.82	111.50
1	B	1943	U	C5'-C4'-O4'	-11.55	92.48	109.80
1	B	2552	U	C5'-C4'-C3'	11.54	133.31	116.00
1	B	2492	U	P-O3'-C3'	-11.54	102.90	120.20
1	B	1136	G	C5'-C4'-C3'	11.53	133.29	116.00
1	B	2111	U	C5'-C4'-O4'	11.52	127.08	109.80
1	B	2425	A	O5'-C5'-C4'	11.52	128.78	111.50
1	B	119	A	C2'-C3'-O3'	11.52	130.98	113.70
1	B	1754	A	C2'-C3'-O3'	11.52	130.98	113.70
1	B	432	A	O3'-P-O5'	-11.50	86.75	104.00
1	B	1428	C	OP2-P-O3'	11.50	142.50	108.00
1	B	1528	A	O3'-P-O5'	11.50	121.25	104.00
1	B	337	C	O3'-P-O5'	-11.50	86.75	104.00
1	B	401	A	P-O5'-C5'	11.50	138.15	120.90
1	B	974	G	C5'-C4'-C3'	11.50	133.25	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	240	C	C5'-C4'-C3'	11.50	133.25	116.00
1	B	2426	A	C5'-C4'-C3'	11.49	133.24	116.00
1	B	1802	A	C2'-C3'-O3'	11.49	130.93	113.70
1	B	183	C	C5'-C4'-C3'	11.48	133.22	116.00
1	B	2199	A	P-O5'-C5'	11.48	138.12	120.90
1	B	1325	U	C5'-C4'-C3'	11.48	133.22	116.00
1	B	1762	A	O3'-P-O5'	-11.48	86.78	104.00
1	B	1990	C	C5'-C4'-C3'	11.48	133.22	116.00
1	B	1668	A	O5'-C5'-C4'	11.47	128.71	111.50
1	B	1828	G	OP1-P-O3'	-11.47	73.58	108.00
1	B	1050	A	O5'-C5'-C4'	11.47	128.70	111.50
1	B	503	A	C4'-C3'-O3'	11.46	126.60	109.40
1	B	2610	C	P-O5'-C5'	11.46	138.09	120.90
1	B	1722	A	C5'-C4'-C3'	11.46	133.19	116.00
1	B	207	A	C2'-C3'-O3'	11.45	130.88	113.70
1	B	620	G	P-O3'-C3'	11.45	137.38	120.20
1	B	2015	A	P-O5'-C5'	11.45	138.07	120.90
1	B	2430	A	C5'-C4'-O4'	11.45	126.97	109.80
1	B	102	U	C5'-C4'-O4'	11.44	126.97	109.80
1	B	1021	A	C4'-C3'-O3'	11.44	130.16	113.00
1	B	1991	U	P-O3'-C3'	-11.44	103.04	120.20
1	B	861	A	C4'-C3'-O3'	-11.44	95.84	113.00
1	B	887	U	C4'-C3'-O3'	11.43	130.15	113.00
1	B	1007	C	C2'-C3'-O3'	11.43	130.85	113.70
1	B	1852	U	P-O3'-C3'	11.43	137.35	120.20
1	B	1452	G	P-O3'-C3'	-11.43	103.06	120.20
1	B	196	A	C5'-C4'-C3'	11.42	133.13	116.00
1	B	1876	A	O3'-P-O5'	-11.42	86.87	104.00
1	B	25	U	O3'-P-O5'	11.42	121.13	104.00
1	B	685	A	C5'-C4'-C3'	11.42	133.13	116.00
1	B	1801	A	O3'-P-O5'	-11.41	86.88	104.00
1	B	1468	U	C5'-C4'-C3'	11.41	133.12	116.00
1	B	62	U	C5'-C4'-O4'	11.41	126.91	109.80
1	B	1977	A	P-O5'-C5'	11.41	138.01	120.90
1	B	2575	C	C4'-C3'-O3'	11.41	130.11	113.00
1	B	1926	U	O5'-C5'-C4'	11.40	128.60	111.50
1	B	990	A	C5'-C4'-C3'	11.40	133.10	116.00
1	B	1366	A	P-O5'-C5'	11.39	137.98	120.90
1	B	1573	G	O3'-P-O5'	11.38	121.08	104.00
1	B	860	U	P-O3'-C3'	-11.38	103.13	120.20
1	B	927	A	O5'-C5'-C4'	11.38	128.57	111.50
1	B	2103	C	O3'-P-O5'	-11.38	86.94	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1438	U	C4'-C3'-O3'	11.37	130.05	113.00
1	B	972	A	O3'-P-O5'	11.36	121.04	104.00
1	B	497	A	C4'-C3'-O3'	11.36	130.03	113.00
1	B	537	G	P-O5'-C5'	11.36	137.93	120.90
1	B	1814	G	O5'-C5'-C4'	11.36	128.53	111.50
1	B	627	A	P-O5'-C5'	11.35	137.93	120.90
1	B	90	U	O3'-P-O5'	-11.35	86.98	104.00
1	B	2469	A	O3'-P-O5'	11.34	121.02	104.00
1	B	1634	A	O3'-P-O5'	-11.34	86.99	104.00
1	B	1952	A	P-O5'-C5'	11.34	137.91	120.90
1	B	28	A	O3'-P-O5'	11.34	121.00	104.00
1	B	1024	G	P-O5'-C5'	11.34	137.90	120.90
1	B	2265	U	O3'-P-O5'	-11.34	87.00	104.00
1	B	164	C	O3'-P-O5'	-11.33	87.00	104.00
1	B	1779	U	O3'-P-O5'	-11.33	87.00	104.00
1	B	2333	A	P-O5'-C5'	11.33	137.90	120.90
1	B	2481	G	P-O5'-C5'	11.33	137.90	120.90
1	B	2797	U	P-O5'-C5'	11.33	137.90	120.90
1	B	396	G	OP2-P-O3'	-11.33	74.02	108.00
1	B	749	A	P-O5'-C5'	11.33	137.89	120.90
1	B	2060	A	O5'-C5'-C4'	11.32	128.48	111.50
1	B	298	G	C5'-C4'-C3'	11.32	132.98	116.00
1	B	1309	G	C2'-C3'-O3'	11.31	130.67	113.70
1	B	73	A	O5'-C5'-C4'	11.31	128.47	111.50
1	B	1490	A	C4'-C3'-O3'	11.31	129.97	113.00
1	B	987	C	P-O3'-C3'	11.31	137.16	120.20
1	B	2614	A	O3'-P-O5'	-11.31	87.04	104.00
1	B	1899	A	C5'-C4'-C3'	11.30	132.95	116.00
1	B	2327	A	OP2-P-O3'	11.30	141.89	108.00
1	B	1029	A	C5'-C4'-C3'	11.30	132.94	116.00
1	B	213	A	C5'-C4'-C3'	11.29	132.94	116.00
1	B	1284	A	P-O3'-C3'	11.29	137.14	120.20
1	B	1888	G	O3'-P-O5'	-11.29	87.07	104.00
1	B	2614	A	P-O3'-C3'	11.29	137.13	120.20
1	B	778	G	P-O3'-C3'	-11.29	103.27	120.20
1	B	2167	U	C5'-C4'-C3'	11.29	132.93	116.00
1	B	2168	G	C5'-C4'-O4'	-11.28	92.88	109.80
1	B	320	A	C4'-C3'-O3'	11.28	129.92	113.00
1	B	198	C	O3'-P-O5'	-11.28	87.08	104.00
1	B	329	G	P-O5'-C5'	11.28	137.82	120.90
1	B	2845	U	C5'-C4'-C3'	11.28	132.91	116.00
1	B	1616	A	C5'-C4'-O4'	11.27	126.71	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1455	G	C5'-C4'-C3'	11.27	132.90	116.00
1	B	490	C	P-O5'-C5'	11.26	137.79	120.90
1	B	1454	C	C5'-C4'-C3'	11.26	132.90	116.00
1	B	36	G	OP2-P-O3'	11.26	141.78	108.00
1	B	2125	G	P-O5'-C5'	11.26	137.79	120.90
1	B	569	U	P-O5'-C5'	11.26	137.79	120.90
1	B	627	A	C4'-C3'-O3'	11.26	129.88	113.00
1	B	2345	G	O5'-P-OP1	-11.26	74.23	108.00
1	B	2075	U	O3'-P-O5'	-11.26	87.12	104.00
1	B	566	U	C4'-C3'-O3'	11.25	129.88	113.00
1	B	801	G	P-O5'-C5'	11.25	137.77	120.90
1	B	901	C	C5'-C4'-C3'	-11.25	99.13	116.00
1	B	1460	U	C2'-C3'-O3'	-11.24	96.83	113.70
1	B	2011	U	P-O3'-C3'	11.24	137.06	120.20
1	B	2873	A	O5'-C5'-C4'	11.24	128.36	111.50
1	B	1490	A	C5'-C4'-C3'	11.24	132.85	116.00
1	B	91	A	P-O3'-C3'	11.23	137.04	120.20
1	B	2824	C	P-O5'-C5'	11.23	137.74	120.90
1	B	1653	G	C5'-C4'-O4'	11.23	126.64	109.80
1	B	332	A	C4'-C3'-O3'	11.22	129.83	113.00
1	B	12	U	C4'-C3'-O3'	11.22	129.82	113.00
1	B	330	A	P-O5'-C5'	11.21	137.72	120.90
1	B	2021	C	C4'-C3'-O3'	11.21	129.82	113.00
1	B	2054	A	P-O3'-C3'	-11.21	103.38	120.20
1	B	633	A	P-O5'-C5'	11.21	137.71	120.90
1	B	1250	G	C4'-C3'-O3'	11.20	129.80	113.00
1	B	2114	A	C4'-C3'-O3'	11.20	129.81	113.00
1	B	2869	G	C4'-C3'-O3'	11.20	129.80	113.00
1	B	1933	G	O3'-P-O5'	11.20	120.80	104.00
1	B	1045	C	P-O5'-C5'	11.19	137.69	120.90
1	B	1933	G	C4'-C3'-O3'	-11.20	96.21	113.00
1	B	276	U	O3'-P-O5'	11.19	120.78	104.00
1	B	2133	G	P-O5'-C5'	11.18	137.67	120.90
1	B	856	G	P-O3'-C3'	-11.18	103.43	120.20
1	B	571	U	O3'-P-O5'	-11.17	87.24	104.00
1	B	782	A	C4'-C3'-O3'	11.17	129.76	113.00
1	B	91	A	O3'-P-O5'	11.17	120.76	104.00
1	B	1851	U	O3'-P-O5'	-11.17	87.25	104.00
1	B	2607	G	C2'-C3'-O3'	11.16	130.44	113.70
1	B	1050	A	OP1-P-O3'	-11.15	74.55	108.00
1	B	2110	G	C5'-C4'-O4'	11.15	126.52	109.80
1	B	1872	A	P-O3'-C3'	-11.15	103.48	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2265	U	C5'-C4'-O4'	11.14	126.52	109.80
1	B	2333	A	C5'-C4'-C3'	11.14	132.71	116.00
1	B	189	G	C5'-C4'-C3'	11.14	132.71	116.00
1	B	2806	C	P-O5'-C5'	11.14	137.61	120.90
1	B	1311	G	C5'-C4'-C3'	11.14	132.71	116.00
1	B	1626	A	OP1-P-O3'	11.13	141.41	108.00
1	B	1047	G	C4'-C3'-O3'	-11.13	96.31	113.00
1	B	2274	A	C5'-C4'-O4'	11.13	126.49	109.80
1	B	2327	A	C2'-C3'-O3'	11.12	130.39	113.70
1	B	471	A	O3'-P-O5'	-11.12	87.32	104.00
1	B	478	A	P-O3'-C3'	11.12	136.88	120.20
1	B	1584	U	C5'-C4'-C3'	11.11	132.66	116.00
1	B	468	G	P-O3'-C3'	11.10	136.86	120.20
1	B	255	A	P-O5'-C5'	11.10	137.55	120.90
1	B	1223	G	O3'-P-O5'	-11.10	87.35	104.00
1	B	2687	U	O3'-P-O5'	-11.10	87.36	104.00
1	B	569	U	C5'-C4'-C3'	11.09	132.64	116.00
1	B	846	U	C4'-C3'-O3'	11.09	129.64	113.00
1	B	1760	C	C4'-C3'-O3'	11.09	129.64	113.00
1	B	1270	C	P-O3'-C3'	-11.08	103.58	120.20
1	B	1715	G	C5'-C4'-O4'	11.08	126.42	109.80
1	B	1527	G	C5'-C4'-C3'	11.08	132.62	116.00
1	B	811	U	O3'-P-O5'	-11.08	87.38	104.00
1	B	34	U	OP2-P-O3'	11.08	141.23	108.00
1	B	1025	G	P-O5'-C5'	11.07	137.51	120.90
1	B	2575	C	P-O3'-C3'	11.07	136.81	120.20
1	B	400	G	O3'-P-O5'	-11.07	87.39	104.00
1	B	141	G	C4'-C3'-O3'	11.07	129.60	113.00
1	B	344	A	O3'-P-O5'	-11.07	87.40	104.00
1	B	2751	G	C2'-C3'-O3'	11.06	130.30	113.70
1	B	1664	A	O3'-P-O5'	-11.06	87.41	104.00
1	B	863	A	C5'-C4'-O4'	11.06	126.39	109.80
1	B	2322	A	C2'-C3'-O3'	-11.06	91.69	113.80
1	B	1701	A	C5'-C4'-C3'	11.05	132.58	116.00
1	B	536	G	O3'-P-O5'	-11.04	87.43	104.00
1	B	876	C	O3'-P-O5'	-11.04	87.43	104.00
1	B	568	U	O5'-C5'-C4'	11.04	128.06	111.50
1	B	1887	C	O5'-C5'-C4'	-11.04	94.94	111.50
1	B	2752	C	C5'-C4'-C3'	11.04	132.56	116.00
1	B	2502	G	C4'-C3'-O3'	11.04	129.56	113.00
1	B	2305	U	C5'-C4'-C3'	11.04	132.55	116.00
1	B	677	A	C2'-C3'-O3'	11.03	130.25	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	901	C	C5'-C4'-O4'	11.03	126.35	109.80
1	B	329	G	C5'-C4'-C3'	11.03	132.54	116.00
1	B	1943	U	O3'-P-O5'	11.03	120.55	104.00
1	B	2171	A	C5'-C4'-C3'	11.03	132.54	116.00
1	B	1109	C	C5'-C4'-C3'	11.02	132.53	116.00
1	B	119	A	C5'-C4'-O4'	11.02	126.33	109.80
1	B	280	U	C5'-C4'-C3'	11.02	132.52	116.00
1	B	127	A	P-O3'-C3'	11.01	136.72	120.20
1	B	1790	C	C4'-C3'-O3'	11.01	129.52	113.00
1	B	738	G	P-O3'-C3'	11.01	136.72	120.20
1	B	747	5MU	O3'-P-O5'	-11.01	87.48	104.00
1	B	1028	A	O3'-P-O5'	11.01	120.52	104.00
1	B	1581	G	C4'-C3'-O3'	11.01	129.51	113.00
1	B	1250	G	O3'-P-O5'	-11.00	87.50	104.00
1	B	565	C	C5'-C4'-C3'	10.99	132.49	116.00
1	B	728	G	C2'-C3'-O3'	10.99	125.99	109.50
1	B	1620	G	P-O3'-C3'	-10.99	103.71	120.20
1	B	233	A	C5'-C4'-C3'	10.99	132.49	116.00
1	B	1952	A	C2'-C3'-O3'	10.99	130.19	113.70
1	B	264	C	P-O3'-C3'	10.98	136.67	120.20
1	B	269	C	C4'-C3'-O3'	10.98	129.47	113.00
1	B	384	A	C2'-C3'-O3'	10.98	130.16	113.70
1	B	2721	A	C5'-C4'-O4'	10.97	126.25	109.80
1	B	32	C	P-O3'-C3'	-10.96	103.75	120.20
1	B	561	G	O3'-P-O5'	-10.96	87.57	104.00
1	B	567	U	O5'-C5'-C4'	10.96	127.93	111.50
1	B	1566	A	C2'-C3'-O3'	-10.95	97.27	113.70
1	B	931	U	C5'-C4'-C3'	10.95	132.42	116.00
1	B	2350	C	O3'-P-O5'	-10.95	87.58	104.00
1	B	2564	A	C5'-C4'-C3'	10.94	132.42	116.00
1	B	995	C	P-O5'-C5'	10.94	137.31	120.90
1	B	94	A	O5'-C5'-C4'	10.94	127.91	111.50
1	B	2457	U	O3'-P-O5'	10.94	120.41	104.00
1	B	2365	G	O5'-C5'-C4'	10.93	127.90	111.50
1	B	706	A	C5'-C4'-C3'	10.92	132.39	116.00
1	B	2210	U	C5'-C4'-C3'	10.92	132.38	116.00
1	B	412	A	P-O5'-C5'	10.92	137.28	120.90
1	B	2041	U	C4'-C3'-O3'	10.92	129.38	113.00
1	B	1681	G	C2'-C3'-O3'	10.91	130.06	113.70
1	B	2480	C	O3'-P-O5'	-10.91	87.64	104.00
1	B	217	A	O5'-C5'-C4'	10.90	127.84	111.50
1	B	2448	A	C5'-C4'-C3'	10.90	132.35	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	547	A	O3'-P-O5'	-10.89	87.66	104.00
1	B	1942	C	O3'-P-O5'	10.89	120.34	104.00
1	B	676	A	P-O5'-C5'	10.89	137.23	120.90
1	B	2346	A	C5'-C4'-C3'	10.89	132.33	116.00
1	B	1963	U	C5'-C4'-C3'	10.89	132.33	116.00
1	B	456	C	O3'-P-O5'	10.88	120.32	104.00
1	B	1899	A	C4'-C3'-O3'	10.88	129.32	113.00
1	B	2378	A	C5'-C4'-C3'	10.88	132.32	116.00
1	B	801	G	P-O3'-C3'	10.88	136.52	120.20
1	B	2481	G	C5'-C4'-C3'	10.86	132.29	116.00
1	B	2393	U	C5'-C4'-C3'	10.86	132.29	116.00
1	B	1049	C	C5'-C4'-C3'	10.86	132.29	116.00
1	B	1568	G	O3'-P-O5'	-10.86	87.71	104.00
1	B	1854	A	C4'-C3'-O3'	10.86	129.29	113.00
1	B	1428	C	O5'-C5'-C4'	10.86	127.79	111.50
1	B	1522	A	C5'-C4'-O4'	10.86	126.08	109.80
1	B	396	G	OP1-P-O3'	-10.85	75.44	108.00
1	B	586	A	C5'-C4'-O4'	-10.85	93.52	109.80
1	B	501	A	C5'-C4'-C3'	10.85	132.27	116.00
1	B	1928	A	O3'-P-O5'	-10.84	87.73	104.00
1	B	2643	G	O3'-P-O5'	-10.84	87.74	104.00
1	B	2021	C	O5'-C5'-C4'	10.84	127.76	111.50
1	B	2748	A	C4'-C3'-O3'	10.83	129.25	113.00
1	B	100	U	C2'-C3'-O3'	10.83	129.94	113.70
1	B	1626	A	O3'-P-O5'	-10.82	87.77	104.00
1	B	1235	G	O3'-P-O5'	-10.82	87.78	104.00
1	B	390	U	O3'-P-O5'	-10.81	87.78	104.00
1	B	1294	U	O3'-P-O5'	10.81	120.22	104.00
1	B	1347	A	P-O3'-C3'	-10.81	103.98	120.20
1	B	1116	G	C2'-C3'-O3'	10.81	129.92	113.70
1	B	2424	C	C2'-C3'-O3'	-10.81	97.48	113.70
1	B	2410	G	P-O3'-C3'	10.81	136.41	120.20
1	B	460	A	C5'-C4'-C3'	10.80	132.21	116.00
1	B	726	G	O3'-P-O5'	-10.80	87.80	104.00
1	B	1890	A	C5'-C4'-O4'	10.80	126.00	109.80
1	B	464	U	P-O3'-C3'	10.79	136.38	120.20
1	B	47	C	P-O5'-C5'	10.79	137.08	120.90
1	B	2116	G	P-O5'-C5'	10.79	137.08	120.90
1	B	1327	A	O3'-P-O5'	10.78	120.17	104.00
1	B	2769	U	P-O3'-C3'	10.78	136.37	120.20
1	B	1384	A	P-O5'-C5'	10.78	137.07	120.90
1	B	1101	U	C1'-C2'-O2'	10.78	124.56	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1753	G	C5'-C4'-O4'	-10.78	93.63	109.80
1	B	120	U	O5'-C5'-C4'	10.77	142.82	110.50
1	B	2245	U	C2'-C3'-O3'	10.77	129.86	113.70
1	B	442	G	P-O3'-C3'	-10.77	104.05	120.20
1	B	2198	A	O3'-P-O5'	-10.76	87.86	104.00
1	B	1559	U	O3'-P-O5'	-10.76	87.86	104.00
1	B	11	C	P-O5'-C5'	10.75	137.03	120.90
1	B	316	C	OP2-P-O3'	-10.75	75.74	108.00
1	B	2391	G	C4'-C3'-O3'	10.75	129.12	113.00
1	B	2823	A	C5'-C4'-C3'	10.75	132.13	116.00
1	B	2512	C	OP1-P-O3'	10.74	140.23	108.00
1	B	2114	A	P-O5'-C5'	10.74	137.01	120.90
1	B	2170	A	P-O5'-C5'	10.74	137.01	120.90
1	B	2179	C	O3'-P-O5'	-10.74	87.89	104.00
1	B	1286	A	O3'-P-O5'	-10.73	87.90	104.00
1	B	34	U	O3'-P-O5'	-10.73	87.91	104.00
1	B	636	G	P-O5'-C5'	10.72	136.99	120.90
1	B	1110	G	O3'-P-O5'	-10.72	87.92	104.00
1	B	2170	A	C4'-C3'-O3'	10.72	129.08	113.00
1	B	226	A	P-O5'-C5'	10.71	136.97	120.90
1	B	2638	G	C2'-C3'-O3'	10.72	129.77	113.70
1	B	727	A	C5'-C4'-O4'	10.71	125.86	109.80
1	B	556	A	O3'-P-O5'	-10.70	87.95	104.00
1	B	233	A	O5'-C5'-C4'	10.69	127.54	111.50
1	B	1299	G	C4'-C3'-O3'	10.69	129.04	113.00
1	B	1678	A	P-O5'-C5'	-10.69	104.86	120.90
1	B	864	G	C2'-C3'-O3'	10.69	129.73	113.70
1	B	2613	U	C5'-C4'-O4'	10.69	125.83	109.80
1	B	423	A	C4'-C3'-O3'	10.68	129.03	113.00
1	B	2810	A	O3'-P-O5'	-10.68	87.98	104.00
1	B	1891	G	P-O3'-C3'	10.68	136.21	120.20
1	B	2070	A	OP1-P-O3'	-10.67	75.99	108.00
1	B	2731	G	O3'-P-O5'	-10.67	87.99	104.00
1	B	2638	G	C5'-C4'-O4'	10.67	125.80	109.80
1	B	652	U	P-O5'-C5'	10.67	136.90	120.90
1	B	1970	A	O5'-C5'-C4'	10.67	127.50	111.50
1	B	1634	A	P-O5'-C5'	10.66	136.89	120.90
1	B	1477	A	C4'-C3'-O3'	10.66	128.99	113.00
1	B	411	G	O5'-C5'-C4'	10.65	127.48	111.50
1	B	576	U	C5'-C4'-C3'	10.65	131.98	116.00
1	B	586	A	C4'-C3'-O3'	10.65	128.98	113.00
1	B	2573	C	C4'-C3'-O3'	10.65	128.98	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	901	C	C4'-C3'-O3'	-10.65	97.03	113.00
1	B	820	A	P-O5'-C5'	10.65	136.87	120.90
1	B	2613	U	O3'-P-O5'	-10.65	88.03	104.00
1	B	2627	G	O5'-C5'-C4'	10.65	127.47	111.50
1	B	1801	A	C4'-C3'-O3'	10.64	128.97	113.00
1	B	2282	G	C4'-C3'-O3'	10.64	128.97	113.00
1	B	2734	A	O3'-P-O5'	-10.64	88.04	104.00
1	B	1142	A	P-O5'-C5'	10.63	136.84	120.90
1	B	1931	U	C5'-C4'-O4'	10.63	125.04	109.10
1	B	2740	A	C4'-C3'-O3'	10.62	128.94	113.00
1	B	2754	U	C5'-C4'-O4'	10.62	125.74	109.80
1	B	2425	A	C5'-C4'-C3'	10.62	131.93	116.00
1	B	1883	U	P-O5'-C5'	-10.62	104.97	120.90
1	B	2684	U	C5'-C4'-C3'	10.62	131.92	116.00
1	B	2639	A	C5'-C4'-C3'	10.61	131.92	116.00
1	B	94	A	C2'-C3'-O3'	-10.61	97.79	113.70
1	B	2858	C	O3'-P-O5'	-10.61	88.09	104.00
1	B	2162	G	O3'-P-O5'	-10.60	88.10	104.00
1	B	102	U	C4'-C3'-O3'	10.60	128.90	113.00
1	B	568	U	C5'-C4'-C3'	10.59	131.88	116.00
1	B	572	A	P-O3'-C3'	-10.58	104.33	120.20
1	B	202	U	P-O3'-C3'	10.58	136.06	120.20
1	B	1100	C	C3'-C2'-C1'	-10.58	90.72	101.30
1	B	2287	A	C5'-C4'-C3'	10.58	131.87	116.00
1	B	761	A	O3'-P-O5'	10.57	119.86	104.00
1	B	1134	A	C5'-C4'-C3'	10.57	131.85	116.00
1	B	2439	A	C5'-C4'-C3'	10.56	131.85	116.00
1	B	1077	A	C1'-C2'-O2'	10.56	124.23	108.40
1	B	1523	U	O5'-C5'-C4'	10.55	127.33	111.50
1	B	126	A	C5'-C4'-C3'	10.55	131.82	116.00
1	B	1054	A	C1'-C2'-O2'	10.55	124.22	108.40
1	B	1122	G	O3'-P-O5'	-10.55	88.18	104.00
1	B	2766	A	C4'-C3'-O3'	10.55	128.82	113.00
1	B	374	A	O3'-P-O5'	-10.54	88.18	104.00
1	B	1834	U	C4'-C3'-O3'	-10.54	97.19	113.00
1	B	802	A	C2'-C3'-O3'	10.54	125.30	109.50
1	B	2394	C	C2'-C3'-O3'	10.54	129.50	113.70
1	B	1801	A	C5'-C4'-C3'	10.53	131.79	116.00
1	B	1572	A	C5'-C4'-O4'	10.52	125.58	109.80
1	B	2062	A	C4'-C3'-O3'	10.52	128.78	113.00
1	B	1371	G	C5'-C4'-O4'	10.52	125.58	109.80
1	B	1379	U	C4'-C3'-O3'	10.52	128.78	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1814	G	C5'-C4'-O4'	10.52	125.58	109.80
1	B	447	A	C4'-C3'-O3'	10.52	128.78	113.00
1	B	585	G	O3'-P-O5'	10.52	119.78	104.00
1	B	1935	G	P-O3'-C3'	10.52	135.97	120.20
1	B	572	A	O3'-P-O5'	-10.51	88.23	104.00
1	B	1990	C	P-O5'-C5'	10.51	136.66	120.90
1	B	2351	G	O3'-P-O5'	-10.51	88.23	104.00
1	B	2573	C	C5'-C4'-C3'	10.51	131.77	116.00
1	B	1419	A	P-O5'-C5'	10.51	136.66	120.90
1	B	1114	C	P-O3'-C3'	-10.50	104.45	120.20
1	B	1668	A	C5'-C4'-O4'	10.50	125.55	109.80
1	B	1438	U	P-O5'-C5'	10.50	136.65	120.90
1	B	2904	U	C4'-C3'-O3'	10.49	128.74	113.00
1	B	806	C	O3'-P-O5'	-10.49	88.26	104.00
1	B	1154	G	C4'-C3'-O3'	10.49	128.74	113.00
1	B	1790	C	O3'-P-O5'	10.49	119.74	104.00
1	B	608	A	C4'-C3'-O3'	10.48	128.72	113.00
1	B	654	A	C5'-C4'-O4'	10.48	125.52	109.80
1	B	1996	C	P-O5'-C5'	10.48	136.62	120.90
1	B	2871	U	C5'-C4'-O4'	10.48	125.52	109.80
1	B	2157	G	C4'-C3'-O3'	10.46	128.69	113.00
1	B	2282	G	C5'-C4'-C3'	10.46	131.69	116.00
1	B	2035	G	O3'-P-O5'	-10.46	88.32	104.00
1	B	1745	A	P-O3'-C3'	10.45	135.88	120.20
1	B	1544	A	C5'-C4'-O4'	10.44	125.46	109.80
1	B	514	A	P-O3'-C3'	-10.44	104.55	120.20
1	B	527	C	C5'-C4'-C3'	10.44	131.65	116.00
1	B	867	C	C5'-C4'-O4'	10.43	125.45	109.80
1	B	1329	U	P-O3'-C3'	10.43	135.85	120.20
1	B	300	A	OP2-P-O3'	10.43	139.29	108.00
1	B	1739	A	P-O3'-C3'	10.43	135.84	120.20
1	B	2115	G	O3'-P-O5'	-10.43	88.36	104.00
1	B	1452	G	C2'-C3'-O3'	10.42	129.33	113.70
1	B	331	C	P-O5'-C5'	10.42	136.53	120.90
1	B	470	A	C5'-C4'-O4'	10.42	125.43	109.80
1	B	1951	U	C5'-C4'-C3'	10.42	130.83	115.20
1	B	91	A	P-O5'-C5'	10.42	136.53	120.90
1	B	2556	C	OP2-P-O3'	10.42	139.25	108.00
1	B	776	G	O5'-C5'-C4'	10.41	127.12	111.50
1	B	432	A	P-O3'-C3'	10.41	135.81	120.20
1	B	990	A	P-O3'-C3'	-10.41	104.59	120.20
1	B	464	U	C4'-C3'-O3'	10.40	128.60	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1074	G	C1'-C2'-O2'	10.40	124.00	108.40
1	B	1858	A	C5'-C4'-C3'	10.40	131.60	116.00
1	B	249	C	P-O5'-C5'	10.40	136.50	120.90
1	B	90	U	C5'-C4'-O4'	10.40	125.39	109.80
1	B	1496	A	P-O5'-C5'	10.40	136.50	120.90
1	B	435	C	C2'-C3'-O3'	-10.39	98.11	113.70
1	B	1610	A	C2'-C3'-O3'	-10.39	98.11	113.70
1	B	2629	U	O5'-C5'-C4'	10.39	127.09	111.50
1	B	1791	A	C5'-C4'-O4'	10.39	125.39	109.80
1	B	321	U	O5'-C5'-C4'	10.39	127.08	111.50
1	B	215	G	C5'-C4'-O4'	10.38	125.37	109.80
1	B	328	U	C5'-C4'-C3'	10.38	131.57	116.00
1	B	229	C	O3'-P-O5'	-10.38	88.43	104.00
1	B	1092	C	C4'-C3'-C2'	-10.38	92.22	102.60
1	B	203	A	C5'-C4'-O4'	10.38	125.36	109.80
1	B	1341	G	P-O5'-C5'	10.38	136.46	120.90
1	B	2306	C	O3'-P-O5'	-10.37	88.44	104.00
1	B	2734	A	P-O5'-C5'	10.37	136.46	120.90
1	B	1154	G	C5'-C4'-O4'	10.37	125.36	109.80
1	B	198	C	P-O3'-C3'	10.37	135.75	120.20
1	B	1818	U	C5'-C4'-C3'	10.37	131.55	116.00
1	B	627	A	C5'-C4'-C3'	10.37	131.55	116.00
1	B	668	A	P-O3'-C3'	-10.37	104.65	120.20
1	B	1301	A	C4'-C3'-O3'	10.36	128.55	113.00
1	B	2903	U	C5'-C4'-C3'	10.36	131.55	116.00
1	B	646	U	C2'-C3'-O3'	10.36	129.24	113.70
1	B	1613	G	O5'-C5'-C4'	10.36	127.04	111.50
1	B	2503	A	P-O5'-C5'	10.36	136.44	120.90
1	B	1006	C	O3'-P-O5'	-10.36	88.47	104.00
1	B	1523	U	O3'-P-O5'	-10.35	88.47	104.00
1	B	2382	G	P-O3'-C3'	10.35	135.73	120.20
1	B	2273	A	O3'-P-O5'	-10.35	88.48	104.00
1	B	1080	A	C4'-C3'-C2'	-10.34	92.26	102.60
1	B	1372	U	P-O5'-C5'	10.34	136.41	120.90
1	B	488	G	O5'-C5'-C4'	10.34	127.01	111.50
1	B	959	A	O3'-P-O5'	-10.34	88.50	104.00
1	B	2061	G	P-O5'-C5'	10.34	136.41	120.90
1	B	2859	G	C5'-C4'-O4'	10.34	125.31	109.80
1	B	2357	G	C5'-C4'-C3'	10.33	131.49	116.00
1	B	2144	G	C5'-C4'-C3'	10.32	131.48	116.00
1	B	2406	A	C5'-C4'-O4'	-10.32	94.33	109.80
1	B	1419	A	C2'-C3'-O3'	-10.31	98.23	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	501	A	C4'-C3'-O3'	10.31	128.47	113.00
1	B	2587	A	C4'-C3'-O3'	10.31	128.47	113.00
1	B	2739	U	C4'-C3'-O3'	10.31	128.46	113.00
1	B	1579	A	O5'-C5'-C4'	10.31	126.96	111.50
1	B	275	C	C5'-C4'-O4'	-10.31	94.34	109.80
1	B	2042	A	O3'-P-O5'	-10.30	88.54	104.00
1	B	1024	G	C5'-C4'-O4'	10.29	125.24	109.80
1	B	2562	U	O5'-C5'-C4'	10.29	127.14	111.70
1	B	468	G	O3'-P-O5'	-10.29	88.56	104.00
1	B	1302	A	O5'-C5'-C4'	10.29	126.94	111.50
1	B	101	A	C2'-C3'-O3'	-10.28	98.27	113.70
1	B	2167	U	C4'-C3'-O3'	10.27	128.40	113.00
1	B	1105	U	C1'-C2'-O2'	10.27	123.80	108.40
1	B	1614	A	C4'-C3'-O3'	10.27	128.40	113.00
1	B	111	A	O5'-P-OP2	-10.26	77.22	108.00
1	B	1069	A	N9-C1'-C2'	10.26	129.39	114.00
1	B	1616	A	O3'-P-O5'	-10.26	88.61	104.00
1	B	2156	G	O3'-P-O5'	10.26	119.39	104.00
1	B	1581	G	C5'-C4'-C3'	10.25	131.38	116.00
1	B	728	G	C5'-C4'-C3'	10.25	130.57	115.20
1	B	1559	U	C4'-C3'-O3'	10.25	128.37	113.00
1	B	1941	C	C2'-C3'-O3'	-10.25	98.33	113.70
1	B	2821	A	C4'-C3'-O3'	10.25	128.37	113.00
1	B	2366	A	O3'-P-O5'	-10.24	88.63	104.00
1	B	1573	G	C4'-C3'-O3'	10.24	128.36	113.00
1	B	525	U	O5'-C5'-C4'	10.24	126.86	111.50
1	B	1990	C	O5'-C5'-C4'	10.24	126.86	111.50
1	B	864	G	C4'-C3'-O3'	10.24	128.35	113.00
1	B	910	A	O3'-P-O5'	-10.24	88.64	104.00
1	B	1452	G	P-O5'-C5'	10.23	136.24	120.90
1	B	576	U	C4'-C3'-O3'	10.23	128.34	113.00
1	B	455	C	P-O5'-C5'	10.22	136.23	120.90
1	B	1652	A	C5'-C4'-C3'	10.22	131.33	116.00
1	B	1802	A	C5'-C4'-C3'	10.22	131.33	116.00
1	B	942	G	P-O5'-C5'	10.22	136.23	120.90
1	B	2504	U	O5'-C5'-C4'	10.22	126.83	111.50
1	B	2335	A	C5'-C4'-C3'	10.21	131.32	116.00
1	B	2467	C	C5'-C4'-C3'	10.21	131.32	116.00
1	B	1445	G	O3'-P-O5'	-10.21	88.69	104.00
1	B	2021	C	C5'-C4'-C3'	10.21	131.31	116.00
1	B	2780	G	C5'-C4'-O4'	10.21	125.11	109.80
1	B	1887	C	O3'-P-O5'	10.20	119.30	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2637	U	P-O3'-C3'	-10.20	104.91	120.20
1	B	254	G	P-O5'-C5'	10.19	136.19	120.90
1	B	1889	A	C4'-C3'-O3'	10.19	128.29	113.00
1	B	2765	A	P-O5'-C5'	10.19	136.19	120.90
1	B	511	U	C4'-C3'-O3'	10.19	128.28	113.00
1	B	828	U	O3'-P-O5'	-10.19	88.72	104.00
1	B	933	A	C5'-C4'-C3'	10.19	131.28	116.00
1	B	2366	A	C5'-C4'-C3'	10.18	131.28	116.00
1	B	1938	A	C4'-C3'-O3'	10.18	128.27	113.00
1	B	100	U	P-O5'-C5'	-10.18	105.63	120.90
1	B	1111	A	O3'-P-O5'	-10.18	88.73	104.00
1	B	1755	A	O3'-P-O5'	-10.18	88.73	104.00
1	B	451	U	P-O5'-C5'	10.17	136.15	120.90
1	B	1565	C	C4'-C3'-O3'	-10.16	97.76	113.00
1	B	1251	C	O3'-P-O5'	-10.16	88.76	104.00
1	B	1607	C	C5'-C4'-C3'	10.16	131.24	116.00
1	B	2869	G	C5'-C4'-C3'	10.16	131.24	116.00
1	B	1964	G	O5'-C5'-C4'	10.16	126.74	111.50
1	B	1211	C	O5'-C5'-C4'	10.15	126.73	111.50
1	B	2041	U	O5'-C5'-C4'	10.15	126.72	111.50
1	B	2483	C	O3'-P-O5'	10.15	119.23	104.00
1	B	1966	A	P-O3'-C3'	10.14	135.42	120.20
1	B	2614	A	C2'-C3'-O3'	-10.14	98.48	113.70
1	B	1419	A	O3'-P-O5'	10.14	119.21	104.00
1	B	370	G	P-O5'-C5'	10.13	136.10	120.90
1	B	780	G	C5'-C4'-O4'	10.13	125.00	109.80
1	B	1900	A	P-O3'-C3'	10.13	135.40	120.20
1	B	1046	A	P-O3'-C3'	10.13	135.40	120.20
1	B	2891	U	C5'-C4'-C3'	10.13	131.20	116.00
1	B	1089	A	C1'-C2'-O2'	10.13	126.99	111.80
1	B	1762	A	C5'-C4'-C3'	10.13	131.19	116.00
1	B	1452	G	C5'-C4'-C3'	-10.13	100.81	116.00
1	B	942	G	C5'-C4'-O4'	10.12	124.98	109.80
1	B	1803	A	C5'-C4'-O4'	-10.12	94.62	109.80
1	B	957	C	P-O5'-C5'	10.12	136.08	120.90
1	B	320	A	O3'-P-O5'	10.12	119.17	104.00
1	B	1173	U	P-O5'-C5'	10.11	136.06	120.90
1	B	1571	A	O3'-P-O5'	-10.11	88.84	104.00
1	B	2638	G	C4'-C3'-O3'	10.11	128.16	113.00
1	B	219	A	C5'-C4'-C3'	10.10	131.16	116.00
1	B	422	A	O3'-P-O5'	-10.10	88.84	104.00
1	B	179	C	P-O5'-C5'	10.10	136.05	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1322	A	P-O3'-C3'	-10.10	105.05	120.20
1	B	673	C	P-O3'-C3'	10.10	135.34	120.20
1	B	1040	A	C4'-C3'-O3'	10.10	128.14	113.00
1	B	2755	C	O3'-P-O5'	-10.10	88.86	104.00
1	B	2739	U	C2'-C3'-O3'	10.09	128.84	113.70
1	B	64	A	P-O3'-C3'	10.09	135.34	120.20
1	B	242	G	O3'-P-O5'	-10.09	88.87	104.00
1	B	780	G	C5'-C4'-C3'	10.09	131.13	116.00
1	B	2082	A	C5'-C4'-C3'	10.09	131.13	116.00
1	B	1203	U	O3'-P-O5'	-10.08	88.88	104.00
1	B	941	A	C5'-C4'-C3'	10.08	131.12	116.00
1	B	52	A	C5'-C4'-O4'	-10.07	94.69	109.80
1	B	2307	G	O3'-P-O5'	-10.07	88.89	104.00
1	B	371	A	O3'-P-O5'	-10.07	88.89	104.00
1	B	818	G	O3'-P-O5'	-10.07	88.89	104.00
1	B	632	A	O3'-P-O5'	-10.07	88.89	104.00
1	B	1044	C	C5'-C4'-C3'	10.07	131.11	116.00
1	B	1858	A	O5'-C5'-C4'	10.07	126.61	111.50
1	B	1953	A	C2'-C3'-O3'	10.07	128.80	113.70
1	B	299	A	C4'-C3'-O3'	10.06	128.09	113.00
1	B	138	U	C5'-C4'-O4'	10.06	124.89	109.80
1	B	573	U	O3'-P-O5'	10.06	119.09	104.00
1	B	2780	G	O3'-P-O5'	-10.06	88.91	104.00
1	B	1698	A	C5'-C4'-O4'	10.05	124.88	109.80
1	B	1359	A	C5'-C4'-O4'	10.05	124.88	109.80
1	B	2082	A	C5'-C4'-O4'	10.05	124.87	109.80
1	B	138	U	O3'-P-O5'	-10.05	88.93	104.00
1	B	2011	U	O3'-P-O5'	10.04	119.06	104.00
1	B	1536	C	O3'-P-O5'	-10.03	88.95	104.00
1	B	1038	G	O3'-P-O5'	-10.03	88.95	104.00
1	B	1955	U	C4'-C3'-O3'	10.03	128.04	113.00
1	B	2887	A	C5'-C4'-C3'	10.02	131.03	116.00
1	B	2796	U	O3'-P-O5'	-10.02	88.97	104.00
1	B	1287	A	O3'-P-O5'	-10.01	88.98	104.00
1	B	675	A	P-O3'-C3'	10.00	135.21	120.20
1	B	957	C	O3'-P-O5'	-10.00	89.00	104.00
1	B	1996	C	C2'-C3'-O3'	10.00	128.70	113.70
1	B	1130	U	C2'-C3'-O3'	10.00	128.70	113.70
1	B	1360	G	P-O5'-C5'	10.00	135.89	120.90
1	B	1869	G	C5'-C4'-O4'	9.99	124.79	109.80
1	B	1816	C	C5'-C4'-O4'	9.99	124.78	109.80
1	B	367	G	C4'-C3'-O3'	9.98	127.98	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	332	A	P-O5'-C5'	9.98	135.87	120.90
1	B	942	G	C4'-C3'-O3'	9.98	127.97	113.00
1	B	900	A	C5'-C4'-O4'	9.98	124.76	109.80
1	B	2712	C	O3'-P-O5'	-9.98	89.04	104.00
1	B	373	U	C4'-C3'-O3'	9.97	127.96	113.00
1	B	1142	A	C2'-C3'-O3'	9.97	128.66	113.70
1	B	2770	G	O3'-P-O5'	-9.97	89.04	104.00
1	B	1713	A	C5'-C4'-O4'	9.96	124.75	109.80
1	B	177	G	C2'-C3'-O3'	9.96	128.64	113.70
1	B	1634	A	C4'-C3'-O3'	9.96	127.94	113.00
1	B	149	A	P-O3'-C3'	9.96	135.13	120.20
1	B	2805	C	O3'-P-O5'	-9.95	89.07	104.00
1	B	255	A	O3'-P-O5'	-9.95	89.07	104.00
1	B	82	U	P-O3'-C3'	9.95	135.12	120.20
1	B	1528	A	OP1-P-O3'	-9.95	78.16	108.00
1	B	1598	A	C5'-C4'-O4'	9.94	124.71	109.80
1	B	2585	U	P-O5'-C5'	9.94	135.81	120.90
1	B	793	A	C4'-C3'-O3'	-9.93	98.10	113.00
1	B	1762	A	C5'-C4'-O4'	9.93	124.70	109.80
1	B	807	U	C4'-C3'-O3'	9.93	127.89	113.00
1	B	2170	A	C2'-C3'-O3'	9.92	128.58	113.70
1	B	49	A	C5'-C4'-O4'	9.92	124.67	109.80
1	B	2528	U	O3'-P-O5'	-9.92	89.12	104.00
1	B	1467	U	C5'-C4'-C3'	9.91	130.87	116.00
1	B	511	U	C5'-C4'-C3'	9.91	130.87	116.00
1	B	1321	A	O5'-C5'-C4'	9.91	126.37	111.50
1	B	2424	C	O3'-P-O5'	9.91	118.87	104.00
1	B	371	A	C2'-C3'-O3'	9.91	128.57	113.70
1	B	1586	A	C2'-C3'-O3'	-9.91	98.84	113.70
1	B	2163	A	C4'-C3'-O3'	9.91	127.86	113.00
1	B	2566	A	C5'-C4'-O4'	9.91	124.66	109.80
1	B	278	A	C5'-C4'-C3'	9.90	130.85	116.00
1	B	450	G	O3'-P-O5'	-9.90	89.15	104.00
1	B	1609	A	O3'-P-O5'	9.90	118.85	104.00
1	B	677	A	C5'-C4'-O4'	9.90	124.64	109.80
1	B	2563	U	C5'-C4'-C3'	9.90	130.85	116.00
1	B	504	A	O5'-C5'-C4'	9.89	126.34	111.50
1	B	1673	G	C2'-C3'-O3'	9.89	128.54	113.70
1	B	2298	A	P-O3'-C3'	-9.89	105.36	120.20
1	B	1962	C	C2'-C3'-O3'	-9.89	98.86	113.70
1	B	1569	A	P-O5'-C5'	9.89	135.73	120.90
1	B	642	U	O3'-P-O5'	-9.88	89.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1469	A	O5'-C5'-C4'	9.88	126.33	111.50
1	B	2113	U	C5'-C4'-C3'	9.88	130.82	116.00
1	B	338	G	O3'-P-O5'	-9.88	89.18	104.00
1	B	2872	A	C5'-C4'-O4'	-9.87	94.99	109.80
1	B	90	U	O5'-C5'-C4'	9.87	126.31	111.50
1	B	118	A	C5'-C4'-C3'	9.87	130.80	116.00
1	B	1996	C	C5'-C4'-O4'	9.87	124.60	109.80
1	B	322	A	C2'-C3'-O3'	9.87	128.50	113.70
1	B	1271	G	C4'-C3'-O3'	9.87	127.80	113.00
1	B	1477	A	C2'-C3'-O3'	9.86	128.50	113.70
1	B	2469	A	C5'-C4'-O4'	-9.86	95.00	109.80
1	B	511	U	C2'-C3'-O3'	9.86	128.49	113.70
1	B	163	C	O3'-P-O5'	-9.86	89.21	104.00
1	B	1559	U	P-O5'-C5'	9.86	135.69	120.90
1	B	1025	G	C2'-C3'-O3'	9.85	128.48	113.70
1	B	83	A	O3'-P-O5'	-9.85	89.23	104.00
1	B	2687	U	P-O5'-C5'	9.85	135.67	120.90
1	B	1690	A	O3'-P-O5'	-9.85	89.23	104.00
1	B	2477	U	C4'-C3'-O3'	9.85	127.77	113.00
1	B	1058	U	C1'-C2'-O2'	9.84	123.17	108.40
1	B	2067	G	P-O3'-C3'	9.84	134.97	120.20
1	B	1234	U	P-O3'-C3'	-9.84	105.44	120.20
1	B	309	A	P-O5'-C5'	9.83	135.65	120.90
1	B	538	A	C5'-C4'-C3'	9.83	130.75	116.00
1	B	532	A	C4'-C3'-O3'	9.83	127.75	113.00
1	B	2797	U	O3'-P-O5'	-9.83	89.25	104.00
1	B	214	G	O3'-P-O5'	9.83	118.74	104.00
1	B	2051	A	C4'-C3'-O3'	9.83	127.75	113.00
1	B	2125	G	C4'-C3'-O3'	9.83	127.74	113.00
1	B	1651	G	P-O3'-C3'	-9.82	105.46	120.20
1	B	2287	A	C4'-C3'-O3'	9.82	127.74	113.00
1	B	525	U	C2'-C3'-O3'	-9.82	98.97	113.70
1	B	12	U	C5'-C4'-C3'	9.82	130.72	116.00
1	B	300	A	C4'-C3'-O3'	9.81	127.72	113.00
1	B	611	C	O3'-P-O5'	-9.81	89.29	104.00
1	B	1687	G	P-O5'-C5'	9.81	135.61	120.90
1	B	821	A	P-O3'-C3'	9.80	134.91	120.20
1	B	1954	G	C5'-C4'-O4'	9.80	124.51	109.80
1	B	2040	G	O3'-P-O5'	9.80	118.71	104.00
1	B	384	A	C4'-C3'-O3'	9.80	127.70	113.00
1	B	1104	C	P-O3'-C3'	-9.80	105.50	120.20
1	B	514	A	O3'-P-O5'	9.80	118.70	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1007	C	O3'-P-O5'	-9.80	89.31	104.00
1	B	913	U	C5'-C4'-C3'	9.79	130.69	116.00
1	B	2012	G	C5'-C4'-C3'	9.79	130.69	116.00
1	B	2594	C	O3'-P-O5'	-9.79	89.31	104.00
1	B	2496	C	P-O3'-C3'	9.79	134.88	120.20
1	B	1469	A	C4'-C3'-O3'	9.78	127.67	113.00
1	B	1475	G	C4'-C3'-O3'	9.78	127.67	113.00
1	B	1106	G	C1'-C2'-O2'	9.78	123.07	108.40
1	B	913	U	C5'-C4'-O4'	9.77	124.46	109.80
1	B	1045	C	O5'-C5'-C4'	9.77	126.15	111.50
1	B	2887	A	OP1-P-O3'	-9.76	78.71	108.00
1	B	805	G	O3'-P-O5'	-9.76	89.36	104.00
1	B	2585	U	O3'-P-O5'	-9.76	89.36	104.00
1	B	716	A	O3'-P-O5'	-9.75	89.37	104.00
1	B	2055	C	OP1-P-O3'	-9.75	78.75	108.00
1	B	2132	U	C5'-C4'-C3'	9.75	130.62	116.00
1	B	12	U	C5'-C4'-O4'	9.74	124.42	109.80
1	B	501	A	C2'-C3'-O3'	9.74	128.31	113.70
1	B	575	A	C5'-C4'-O4'	9.74	124.42	109.80
1	B	850	U	OP1-P-O3'	9.74	137.23	108.00
1	B	2542	A	C5'-C4'-C3'	9.74	130.62	116.00
1	B	405	U	C4'-C3'-O3'	9.74	127.61	113.00
1	B	61	C	O3'-P-O5'	-9.74	89.39	104.00
1	B	269	C	O5'-C5'-C4'	9.74	126.11	111.50
1	B	1953	A	C4'-C3'-O3'	9.74	127.60	113.00
1	B	465	G	C5'-C4'-O4'	9.73	124.40	109.80
1	B	524	G	O3'-P-O5'	9.73	118.60	104.00
1	B	2473	U	O3'-P-O5'	-9.73	89.40	104.00
1	B	1025	G	C4'-C3'-O3'	9.73	127.59	113.00
1	B	1288	G	OP2-P-O3'	-9.73	78.81	108.00
1	B	2726	A	O5'-C5'-C4'	9.73	126.09	111.50
1	B	346	A	P-O5'-C5'	9.72	135.48	120.90
1	B	448	U	C2'-C3'-O3'	9.72	128.28	113.70
1	B	1093	G	C1'-C2'-O2'	9.72	122.98	108.40
1	B	1568	G	C5'-C4'-C3'	9.72	130.59	116.00
1	B	1839	G	O3'-P-O5'	-9.72	89.42	104.00
1	B	644	A	O3'-P-O5'	-9.71	89.43	104.00
1	B	1452	G	C4'-C3'-O3'	9.71	127.56	113.00
1	B	367	G	C2'-C3'-O3'	9.71	128.26	113.70
1	B	715	A	O3'-P-O5'	-9.71	89.44	104.00
1	B	807	U	C5'-C4'-C3'	9.71	130.56	116.00
1	B	1428	C	C5'-C4'-O4'	-9.71	95.24	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	120	U	P-O5'-C5'	9.70	150.01	120.90
1	B	410	G	P-O3'-C3'	-9.71	105.64	120.20
1	B	1329	U	O3'-P-O5'	-9.71	89.44	104.00
1	B	1285	A	C5'-C4'-O4'	9.70	124.36	109.80
1	B	1790	C	O5'-C5'-C4'	9.70	126.05	111.50
1	B	248	G	O3'-P-O5'	-9.70	89.45	104.00
1	B	1056	G	C1'-C2'-O2'	9.70	122.94	108.40
1	B	2252	G	O3'-P-O5'	-9.70	89.45	104.00
1	B	717	C	O3'-P-O5'	-9.69	89.46	104.00
1	B	480	A	C5'-C4'-C3'	9.69	130.54	116.00
1	B	215	G	C5'-C4'-C3'	9.69	130.53	116.00
1	B	1108	U	O5'-P-OP2	-9.69	78.95	108.00
1	B	572	A	C4'-C3'-O3'	9.68	127.52	113.00
1	B	1024	G	C5'-C4'-C3'	9.68	130.52	116.00
1	B	1899	A	O5'-C5'-C4'	9.68	126.02	111.50
1	B	1917	PSU	O3'-P-O5'	-9.68	89.49	104.00
1	B	2724	U	C5'-C4'-C3'	9.68	130.51	116.00
1	B	587	C	P-O3'-C3'	9.67	134.71	120.20
1	B	500	G	P-O3'-C3'	9.67	134.70	120.20
1	B	2214	C	C4'-C3'-O3'	9.67	127.50	113.00
1	B	217	A	P-O3'-C3'	-9.67	105.70	120.20
1	B	466	A	C5'-C4'-C3'	9.67	130.50	116.00
1	B	2502	G	O3'-P-O5'	-9.67	89.50	104.00
1	B	2750	A	C5'-C4'-O4'	9.67	124.30	109.80
1	B	446	G	C4'-C3'-O3'	9.66	127.50	113.00
1	B	309	A	O3'-P-O5'	-9.66	89.50	104.00
1	B	2110	G	P-O3'-C3'	9.66	134.69	120.20
1	B	1153	C	P-O3'-C3'	9.66	134.69	120.20
1	B	1885	A	C5'-C4'-C3'	-9.66	101.52	116.00
1	B	10	A	C5'-C4'-C3'	9.65	130.48	116.00
1	B	1129	A	P-O5'-C5'	9.65	135.38	120.90
1	B	1125	G	O3'-P-O5'	9.65	118.48	104.00
1	B	1474	U	P-O3'-C3'	-9.65	105.72	120.20
1	B	89	A	P-O3'-C3'	-9.65	105.72	120.20
1	B	1585	C	C5'-C4'-C3'	9.65	130.47	116.00
1	B	389	G	P-O5'-C5'	9.65	135.37	120.90
1	B	713	G	C4'-C3'-O3'	9.64	127.46	113.00
1	B	1801	A	C5'-C4'-O4'	9.64	124.26	109.80
1	B	761	A	P-O5'-C5'	9.64	135.35	120.90
1	B	1236	G	C2'-C3'-O3'	9.64	128.16	113.70
1	B	1459	G	C5'-C4'-C3'	9.64	130.46	116.00
1	B	2058	A	C4'-C3'-O3'	9.64	127.46	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2092	U	OP1-P-O3'	-9.64	79.09	108.00
1	B	918	A	O3'-P-O5'	-9.63	89.55	104.00
1	B	987	C	O3'-P-O5'	9.64	118.45	104.00
1	B	1847	A	C5'-C4'-C3'	-9.63	101.55	116.00
1	B	2272	U	O3'-P-O5'	-9.63	89.55	104.00
1	B	1195	G	P-O3'-C3'	9.63	134.65	120.20
1	B	1720	U	C2'-C3'-O3'	9.63	128.15	113.70
1	B	2268	A	O3'-P-O5'	-9.63	89.56	104.00
1	B	2903	U	C5'-C4'-O4'	9.63	124.24	109.80
1	B	52	A	C2'-C3'-O3'	-9.62	99.27	113.70
1	B	2860	A	P-O5'-C5'	9.62	135.33	120.90
1	B	2236	U	O3'-P-O5'	-9.62	89.58	104.00
1	B	806	C	C5'-C4'-O4'	9.61	124.22	109.80
1	B	99	U	P-O3'-C3'	-9.61	105.78	120.20
1	B	2483	C	C4'-C3'-O3'	9.61	127.41	113.00
1	B	2476	A	O3'-P-O5'	-9.61	89.59	104.00
1	B	2244	U	C4'-C3'-O3'	9.61	127.41	113.00
1	B	125	A	O3'-P-O5'	-9.60	89.60	104.00
1	B	955	U	O3'-P-O5'	-9.60	89.60	104.00
1	B	1924	C	P-O3'-C3'	-9.60	105.79	120.20
1	B	2886	A	O3'-P-O5'	-9.60	89.59	104.00
1	B	2689	U	O3'-P-O5'	9.60	118.40	104.00
1	B	118	A	C2'-C3'-O3'	-9.60	99.30	113.70
1	B	1803	A	C5'-C4'-C3'	9.60	130.40	116.00
1	B	1438	U	O3'-P-O5'	-9.59	89.61	104.00
1	B	1915	5MU	O3'-P-O5'	-9.59	89.62	104.00
1	B	1610	A	C5'-C4'-C3'	9.59	130.38	116.00
1	B	2770	G	P-O5'-C5'	9.59	135.28	120.90
1	B	2145	C	O3'-P-O5'	-9.59	89.62	104.00
1	B	83	A	C4'-C3'-O3'	9.58	127.38	113.00
1	B	274	C	O3'-P-O5'	9.58	118.38	104.00
1	B	1299	G	C5'-C4'-C3'	9.58	130.37	116.00
1	B	2555	U	O5'-C5'-C4'	9.58	126.07	111.70
1	B	1969	A	P-O5'-C5'	9.58	135.26	120.90
1	B	402	A	P-O5'-C5'	9.57	135.26	120.90
1	B	2474	U	C4'-C3'-O3'	9.57	127.36	113.00
1	B	2834	G	O3'-P-O5'	-9.57	89.64	104.00
1	B	294	A	C2'-C3'-O3'	9.57	128.06	113.70
1	B	2022	U	O5'-C5'-C4'	9.57	125.86	111.50
1	B	2110	G	O3'-P-O5'	9.57	118.36	104.00
1	B	2334	U	C4'-C3'-O3'	9.57	127.36	113.00
1	B	1876	A	P-O3'-C3'	9.57	134.55	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1937	A	O5'-C5'-C4'	9.57	125.85	111.50
1	B	2308	G	O3'-P-O5'	-9.56	89.66	104.00
1	B	162	U	O3'-P-O5'	-9.56	89.66	104.00
1	B	575	A	C5'-C4'-C3'	9.56	130.34	116.00
1	B	787	C	P-O3'-C3'	-9.55	105.87	120.20
1	B	913	U	O5'-C5'-C4'	9.55	125.83	111.50
1	B	1688	U	O3'-P-O5'	-9.56	89.67	104.00
1	B	2644	G	C4'-C3'-O3'	9.56	127.33	113.00
1	B	103	A	C4'-C3'-O3'	9.55	127.33	113.00
1	B	2770	G	C4'-C3'-O3'	9.55	127.33	113.00
1	B	1926	U	C5'-C4'-O4'	9.55	124.12	109.80
1	B	1791	A	C5'-C4'-C3'	9.54	130.31	116.00
1	B	2873	A	C4'-C3'-O3'	9.54	127.31	113.00
1	B	2627	G	C5'-C4'-O4'	9.54	124.11	109.80
1	B	1222	U	O3'-P-O5'	-9.54	89.70	104.00
1	B	2573	C	C5'-C4'-O4'	9.54	124.11	109.80
1	B	1626	A	C5'-C4'-C3'	9.53	130.30	116.00
1	B	2627	G	C5'-C4'-C3'	9.53	130.30	116.00
1	B	1087	G	N9-C1'-C2'	9.53	126.29	112.00
1	B	1572	A	C2'-C3'-O3'	9.53	127.99	113.70
1	B	545	U	P-O5'-C5'	9.53	135.19	120.90
1	B	578	G	C5'-C4'-O4'	9.53	124.09	109.80
1	B	800	A	P-O5'-C5'	9.53	135.19	120.90
1	B	1954	G	C5'-C4'-C3'	9.53	130.29	116.00
1	B	1954	G	C2'-C3'-O3'	9.52	127.98	113.70
1	B	459	U	C5'-C4'-C3'	9.52	130.28	116.00
1	B	1706	C	P-O3'-C3'	9.52	134.48	120.20
1	B	2426	A	C4'-C3'-O3'	9.52	127.28	113.00
1	B	901	C	O3'-P-O5'	9.52	118.27	104.00
1	B	1614	A	O3'-P-O5'	-9.52	89.73	104.00
1	B	490	C	O3'-P-O5'	-9.51	89.73	104.00
1	B	2062	A	C5'-C4'-O4'	-9.50	95.55	109.80
1	B	2352	A	P-O5'-C5'	9.50	135.15	120.90
1	B	1718	G	P-O3'-C3'	9.50	134.45	120.20
1	B	1404	C	OP1-P-O3'	-9.50	79.50	108.00
1	B	1803	A	O5'-C5'-C4'	9.50	125.75	111.50
1	B	1202	G	O3'-P-O5'	-9.50	89.75	104.00
1	B	1546	G	C4'-C3'-O3'	9.50	127.25	113.00
1	B	2452	C	C5'-C4'-C3'	9.50	130.25	116.00
1	B	2675	A	C5'-C4'-O4'	9.50	124.05	109.80
1	B	1582	C	P-O5'-C5'	9.49	135.14	120.90
1	B	369	U	C5'-C4'-C3'	9.49	130.24	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	525	U	C5'-C4'-O4'	-9.49	95.56	109.80
1	B	2583	G	O3'-P-O5'	-9.49	89.77	104.00
1	B	750	A	O3'-P-O5'	-9.48	89.78	104.00
1	B	1727	C	O3'-P-O5'	-9.48	89.78	104.00
1	B	584	C	O3'-P-O5'	-9.48	89.78	104.00
1	B	2806	C	C5'-C4'-O4'	9.48	124.02	109.80
1	B	2766	A	C5'-C4'-C3'	9.47	130.21	116.00
1	B	1571	A	C4'-C3'-O3'	9.47	127.21	113.00
1	B	2034	U	O3'-P-O5'	-9.47	89.80	104.00
1	B	1887	C	C5'-C4'-O4'	9.47	124.00	109.80
1	B	448	U	C4'-C3'-O3'	9.47	127.20	113.00
1	B	2166	U	P-O5'-C5'	9.46	135.09	120.90
1	B	2857	G	O3'-P-O5'	-9.46	89.81	104.00
1	B	531	C	C5'-C4'-O4'	9.46	123.99	109.80
1	B	1543	G	O3'-P-O5'	-9.46	89.81	104.00
1	B	332	A	C5'-C4'-C3'	9.46	130.19	116.00
1	B	1560	G	C4'-C3'-O3'	9.46	127.19	113.00
1	B	1809	A	O3'-P-O5'	-9.46	89.81	104.00
1	B	1142	A	C5'-C4'-O4'	9.46	123.98	109.80
1	B	2607	G	O5'-C5'-C4'	9.46	125.69	111.50
1	B	867	C	C5'-C4'-C3'	9.46	130.18	116.00
1	B	1817	G	C5'-C4'-O4'	9.45	123.98	109.80
1	B	961	C	C5'-C4'-C3'	9.45	130.18	116.00
1	B	1641	A	O5'-C5'-C4'	9.45	125.67	111.50
1	B	626	A	C5'-C4'-C3'	9.45	130.17	116.00
1	B	1516	G	O3'-P-O5'	-9.45	89.83	104.00
1	B	1925	C	C5'-C4'-C3'	9.45	129.37	115.20
1	B	2433	A	P-O3'-C3'	9.44	134.37	120.20
1	B	1465	G	P-O3'-C3'	-9.44	106.04	120.20
1	B	1582	C	C5'-C4'-O4'	9.44	123.96	109.80
1	B	331	C	O5'-C5'-C4'	9.44	125.65	111.50
1	B	1132	U	O5'-C5'-C4'	9.44	125.66	111.50
1	B	918	A	P-O5'-C5'	9.43	135.05	120.90
1	B	2378	A	C2'-C3'-O3'	9.43	127.85	113.70
1	B	332	A	O3'-P-O5'	-9.43	89.85	104.00
1	B	1136	G	C2'-C3'-O3'	9.43	127.84	113.70
1	B	2747	G	O3'-P-O5'	-9.43	89.86	104.00
1	B	2058	A	O3'-P-O5'	-9.42	89.87	104.00
1	B	714	U	O3'-P-O5'	-9.42	89.87	104.00
1	B	1091	G	C2'-C3'-O3'	9.42	127.83	113.70
1	B	1091	G	C1'-C2'-O2'	9.42	122.53	108.40
1	B	1322	A	C4'-C3'-O3'	9.42	127.13	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	448	U	P-O3'-C3'	9.42	134.33	120.20
1	B	1140	C	C5'-C4'-O4'	9.41	123.92	109.80
1	B	1458	U	C2'-C3'-O3'	9.41	127.82	113.70
1	B	240	C	C4'-C3'-O3'	9.41	127.12	113.00
1	B	942	G	O3'-P-O5'	-9.41	89.89	104.00
1	B	945	A	C4'-C3'-O3'	9.41	127.11	113.00
1	B	900	A	C5'-C4'-C3'	9.40	130.10	116.00
1	B	727	A	C5'-C4'-C3'	9.40	130.10	116.00
1	B	1652	A	C4'-C3'-O3'	9.40	127.10	113.00
1	B	1857	G	C5'-C4'-C3'	9.40	130.10	116.00
1	B	1138	G	O3'-P-O5'	-9.39	89.91	104.00
1	B	982	C	C5'-C4'-C3'	9.39	130.09	116.00
1	B	1100	C	C4'-C3'-C2'	9.39	111.99	102.60
1	B	2720	U	O5'-C5'-C4'	9.39	125.59	111.50
1	B	538	A	P-O3'-C3'	9.39	134.28	120.20
1	B	1116	G	C4'-C3'-O3'	9.38	127.08	113.00
1	B	1115	G	C5'-C4'-C3'	9.38	130.07	116.00
1	B	1583	A	O3'-P-O5'	-9.38	89.93	104.00
1	B	887	U	C2'-C3'-O3'	9.38	127.76	113.70
1	B	1525	A	C2'-C3'-O3'	9.37	127.76	113.70
1	B	1722	A	C4'-C3'-O3'	9.37	127.06	113.00
1	B	2775	G	O3'-P-O5'	-9.37	89.94	104.00
1	B	2798	U	O3'-P-O5'	-9.37	89.95	104.00
1	B	12	U	O3'-P-O5'	-9.36	89.95	104.00
1	B	482	A	C4'-C3'-O3'	9.36	127.04	113.00
1	B	180	G	P-O5'-C5'	9.35	134.93	120.90
1	B	958	U	O3'-P-O5'	-9.35	89.97	104.00
1	B	1568	G	C2'-C3'-O3'	9.35	127.73	113.70
1	B	1882	U	O3'-P-O5'	-9.35	89.97	104.00
1	B	201	C	P-O3'-C3'	9.35	134.22	120.20
1	B	1224	U	O3'-P-O5'	-9.35	89.98	104.00
1	B	431	U	C5'-C4'-C3'	9.35	130.02	116.00
1	B	567	U	C5'-C4'-O4'	9.35	123.82	109.80
1	B	2820	A	C4'-C3'-O3'	-9.35	98.98	113.00
1	B	636	G	C4'-C3'-O3'	9.34	127.02	113.00
1	B	1477	A	O3'-P-O5'	-9.34	89.99	104.00
1	B	1884	G	C2'-C3'-O3'	9.34	127.71	113.70
1	B	571	U	C5'-C4'-C3'	9.34	130.01	116.00
1	B	1460	U	C5'-C4'-C3'	9.34	130.00	116.00
1	B	1722	A	C2'-C3'-O3'	9.33	127.70	113.70
1	B	1302	A	C5'-C4'-C3'	9.33	129.99	116.00
1	B	525	U	O3'-P-O5'	9.33	117.99	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	973	A	C5'-C4'-C3'	9.32	129.99	116.00
1	B	2225	A	O3'-P-O5'	-9.32	90.02	104.00
1	B	2304	G	O3'-P-O5'	-9.32	90.02	104.00
1	B	2869	G	C5'-C4'-O4'	9.32	123.78	109.80
1	B	537	G	C5'-C4'-O4'	9.32	123.78	109.80
1	B	2027	G	O3'-P-O5'	-9.32	90.02	104.00
1	B	2131	U	C5'-C4'-O4'	9.32	123.77	109.80
1	B	653	U	C5'-C4'-C3'	9.31	129.97	116.00
1	B	264	C	O5'-C5'-C4'	9.31	125.47	111.50
1	B	2390	U	P-O5'-C5'	9.31	134.87	120.90
1	B	1646	C	C5'-C4'-C3'	9.31	129.97	116.00
1	B	2751	G	C5'-C4'-O4'	9.31	123.77	109.80
1	B	2683	C	C4'-C3'-O3'	9.31	126.96	113.00
1	B	1663	G	P-O3'-C3'	-9.31	106.24	120.20
1	B	276	U	C5'-C4'-C3'	9.30	129.96	116.00
1	B	1652	A	C5'-C4'-O4'	9.31	123.76	109.80
1	B	387	U	O3'-P-O5'	-9.30	90.04	104.00
1	B	1566	A	C4'-C3'-O3'	-9.30	99.05	113.00
1	B	67	U	P-O3'-C3'	-9.30	106.25	120.20
1	B	384	A	O3'-P-O5'	-9.30	90.05	104.00
1	B	2166	U	C5'-C4'-C3'	9.30	129.95	116.00
1	B	212	G	P-O3'-C3'	-9.30	106.26	120.20
1	B	2411	A	C4'-C3'-O3'	9.30	126.94	113.00
1	B	2584	U	C4'-C3'-O3'	9.29	126.94	113.00
1	B	26	G	C5'-C4'-O4'	-9.29	95.86	109.80
1	B	1755	A	C5'-C4'-O4'	9.29	123.74	109.80
1	B	1962	C	C4'-C3'-O3'	9.29	126.93	113.00
1	B	278	A	O5'-C5'-C4'	9.29	125.43	111.50
1	B	1992	G	O5'-C5'-C4'	9.28	125.43	111.50
1	B	2481	G	C5'-C4'-O4'	9.28	123.72	109.80
1	B	2556	C	C5'-C4'-C3'	9.28	129.92	116.00
1	B	1121	C	O3'-P-O5'	-9.28	90.08	104.00
1	B	1740	G	P-O3'-C3'	9.28	134.11	120.20
1	B	2609	U	C4'-C3'-O3'	9.28	126.92	113.00
1	B	1723	G	P-O5'-C5'	9.27	134.81	120.90
1	B	1754	A	C4'-C3'-O3'	9.27	126.91	113.00
1	B	427	U	O3'-P-O5'	9.27	117.91	104.00
1	B	1284	A	C4'-C3'-O3'	-9.27	99.09	113.00
1	B	643	A	O3'-P-O5'	-9.27	90.09	104.00
1	B	699	A	P-O3'-C3'	9.27	134.10	120.20
1	B	1372	U	C5'-C4'-O4'	9.27	123.70	109.80
1	B	1631	G	C5'-C4'-C3'	9.26	129.90	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	141	G	C5'-C4'-C3'	9.26	129.89	116.00
1	B	532	A	C5'-C4'-C3'	9.26	129.89	116.00
1	B	931	U	C5'-C4'-O4'	9.26	123.69	109.80
1	B	2493	U	C2'-C3'-O3'	9.26	127.59	113.70
1	B	683	U	O3'-P-O5'	9.26	117.88	104.00
1	B	821	A	O5'-C5'-C4'	9.26	125.38	111.50
1	B	1263	U	O3'-P-O5'	-9.26	90.11	104.00
1	B	94	A	C5'-C4'-O4'	-9.25	95.92	109.80
1	B	1009	A	C2'-C3'-O3'	-9.25	99.82	113.70
1	B	246	C	O3'-P-O5'	-9.25	90.13	104.00
1	B	845	A	O5'-C5'-C4'	9.25	125.38	111.50
1	B	1802	A	C4'-C3'-O3'	9.25	126.88	113.00
1	B	2542	A	C5'-C4'-O4'	9.25	123.67	109.80
1	B	1104	C	P-O5'-C5'	-9.25	107.03	120.90
1	B	2776	A	O3'-P-O5'	-9.25	90.13	104.00
1	B	432	A	C5'-C4'-O4'	-9.24	95.93	109.80
1	B	1358	G	C2'-C3'-O3'	9.24	127.57	113.70
1	B	1770	G	OP1-P-O3'	-9.24	80.27	108.00
1	B	1522	A	C5'-C4'-C3'	9.24	129.86	116.00
1	B	2530	A	O3'-P-O5'	-9.24	90.14	104.00
1	B	2270	A	O3'-P-O5'	-9.23	90.15	104.00
1	B	859	G	O5'-C5'-C4'	-9.23	97.65	111.50
1	B	1127	A	O3'-P-O5'	-9.23	90.15	104.00
1	B	1837	C	O3'-P-O5'	-9.23	90.15	104.00
1	B	306	U	O3'-P-O5'	-9.23	90.15	104.00
1	B	563	A	C4'-C3'-O3'	9.23	126.84	113.00
1	B	608	A	O3'-P-O5'	-9.23	90.16	104.00
1	B	459	U	O3'-P-O5'	-9.23	90.16	104.00
1	B	613	A	O3'-P-O5'	-9.23	90.16	104.00
1	B	941	A	O3'-P-O5'	9.23	117.84	104.00
1	B	1135	C	C5'-C4'-C3'	9.23	129.84	116.00
1	B	1021	A	P-O3'-C3'	-9.22	106.36	120.20
1	B	615	U	O3'-P-O5'	-9.22	90.17	104.00
1	B	1655	A	O3'-P-O5'	-9.22	90.17	104.00
1	B	2309	A	O3'-P-O5'	-9.22	90.17	104.00
1	B	2335	A	C4'-C3'-O3'	9.22	126.83	113.00
1	B	1884	G	C4'-C3'-O3'	-9.22	99.18	113.00
1	B	140	C	P-O3'-C3'	9.21	134.02	120.20
1	B	614	A	O3'-P-O5'	-9.21	90.18	104.00
1	B	1300	G	C5'-C4'-C3'	9.21	129.82	116.00
1	B	1762	A	C2'-C3'-O3'	9.21	127.52	113.70
1	B	1027	A	C5'-C4'-C3'	9.21	129.81	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1509	A	C5'-C4'-C3'	9.20	129.81	116.00
1	B	2690	U	P-O3'-C3'	-9.20	106.39	120.20
1	B	2704	C	O3'-P-O5'	-9.20	90.20	104.00
1	B	388	G	O3'-P-O5'	-9.20	90.20	104.00
1	B	900	A	O3'-P-O5'	-9.20	90.20	104.00
1	B	386	G	O3'-P-O5'	-9.20	90.20	104.00
1	B	359	G	P-O3'-C3'	-9.20	106.41	120.20
1	B	1476	U	O5'-C5'-C4'	9.20	125.29	111.50
1	B	865	C	C5'-C4'-O4'	9.19	123.59	109.80
1	B	972	A	C5'-C4'-O4'	-9.19	96.01	109.80
1	B	909	A	P-O3'-C3'	-9.19	106.42	120.20
1	B	1499	C	O3'-P-O5'	9.19	117.78	104.00
1	B	750	A	P-O5'-C5'	9.18	134.67	120.90
1	B	1838	C	C5'-C4'-C3'	9.18	129.77	116.00
1	B	2374	C	O3'-P-O5'	9.18	117.77	104.00
1	B	2689	U	C5'-C4'-C3'	9.18	129.77	116.00
1	B	2823	A	C5'-C4'-O4'	9.18	123.57	109.80
1	B	2532	G	O3'-P-O5'	-9.18	90.24	104.00
1	B	2764	A	P-O5'-C5'	9.18	134.66	120.90
1	B	1639	C	P-O3'-C3'	9.17	133.96	120.20
1	B	53	A	P-O5'-C5'	9.17	134.66	120.90
1	B	389	G	O3'-P-O5'	-9.17	90.25	104.00
1	B	917	A	O3'-P-O5'	9.17	117.75	104.00
1	B	216	A	C2'-C3'-O3'	9.17	127.45	113.70
1	B	1697	G	O5'-C5'-C4'	9.17	125.25	111.50
1	B	183	C	P-O3'-C3'	9.16	133.95	120.20
1	B	2251	7MG	O3'-P-O5'	-9.16	90.25	104.00
1	B	2613	U	C5'-C4'-C3'	9.16	129.74	116.00
1	B	498	G	O3'-P-O5'	9.16	117.74	104.00
1	B	2032	G	O3'-P-O5'	-9.16	90.26	104.00
1	B	2033	A	O3'-P-O5'	-9.16	90.27	104.00
1	B	1582	C	O3'-P-O5'	-9.15	90.27	104.00
1	B	43	G	O3'-P-O5'	9.15	117.73	104.00
1	B	2366	A	P-O3'-C3'	-9.15	106.48	120.20
1	B	502	A	C4'-C3'-O3'	9.15	126.72	113.00
1	B	449	A	C2'-C3'-O3'	-9.14	99.99	113.70
1	B	652	U	C2'-C3'-O3'	-9.14	99.99	113.70
1	B	2503	A	C5'-C4'-C3'	-9.14	102.29	116.00
1	B	161	A	O3'-P-O5'	-9.14	90.29	104.00
1	B	785	G	C5'-C4'-O4'	9.14	123.51	109.80
1	B	1115	G	C4'-C3'-O3'	9.14	126.71	113.00
1	B	945	A	C5'-C4'-O4'	9.14	123.50	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1950	G	OP2-P-O3'	9.14	135.41	108.00
1	B	216	A	O3'-P-O5'	9.14	117.70	104.00
1	B	1913	A	O3'-P-O5'	-9.14	90.30	104.00
1	B	2365	G	C5'-C4'-C3'	9.14	129.70	116.00
1	B	811	U	C5'-C4'-C3'	9.13	129.70	116.00
1	B	427	U	P-O3'-C3'	9.13	133.90	120.20
1	B	757	G	OP2-P-O3'	9.13	135.39	108.00
1	B	2738	A	C5'-C4'-C3'	9.13	129.69	116.00
1	B	400	G	C5'-C4'-O4'	9.13	123.49	109.80
1	B	1008	A	O3'-P-O5'	-9.13	90.31	104.00
1	B	1109	C	C5'-C4'-O4'	9.12	123.49	109.80
1	B	2601	C	P-O3'-C3'	9.12	133.88	120.20
1	B	567	U	C5'-C4'-C3'	9.12	129.68	116.00
1	B	1855	U	C5'-C4'-O4'	-9.12	96.12	109.80
1	B	1610	A	P-O3'-C3'	9.12	133.88	120.20
1	B	1377	G	O5'-C5'-C4'	9.11	125.17	111.50
1	B	1242	U	C2'-C3'-O3'	-9.11	100.03	113.70
1	B	888	C	O3'-P-O5'	-9.11	90.33	104.00
1	B	324	A	C5'-C4'-C3'	9.11	134.21	116.00
1	B	257	C	C2'-C3'-O3'	9.10	127.35	113.70
1	B	264	C	O3'-P-O5'	-9.10	90.35	104.00
1	B	528	A	C5'-C4'-O4'	9.10	123.45	109.80
1	B	806	C	O5'-C5'-C4'	9.10	125.15	111.50
1	B	1543	G	O5'-C5'-C4'	9.10	125.15	111.50
1	B	2112	G	O5'-C5'-C4'	9.10	125.15	111.50
1	B	804	A	O3'-P-O5'	-9.09	90.36	104.00
1	B	2117	A	C2'-C3'-O3'	9.09	127.34	113.70
1	B	1874	C	P-O3'-C3'	-9.09	106.57	120.20
1	B	428	A	O3'-P-O5'	9.09	117.63	104.00
1	B	1048	A	C5'-C4'-C3'	9.09	129.63	116.00
1	B	1858	A	C4'-C3'-O3'	9.09	126.63	113.00
1	B	2310	C	O3'-P-O5'	-9.08	90.37	104.00
1	B	1713	A	C4'-C3'-O3'	-9.08	99.38	113.00
1	B	1136	G	P-O3'-C3'	9.08	133.82	120.20
1	B	1301	A	C5'-C4'-O4'	-9.08	96.18	109.80
1	B	1944	U	C4'-C3'-O3'	9.08	139.74	112.50
1	B	699	A	C4'-C3'-O3'	9.07	126.61	113.00
1	B	1392	A	P-O5'-C5'	9.07	134.51	120.90
1	B	2566	A	C2'-C3'-O3'	9.07	127.30	113.70
1	B	2628	C	C4'-C3'-O3'	9.07	126.60	113.00
1	B	1681	G	C5'-C4'-O4'	9.07	123.40	109.80
1	B	1701	A	C5'-C4'-O4'	9.07	123.40	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2252	G	C2'-C3'-O3'	9.06	127.30	113.70
1	B	127	A	C5'-C4'-O4'	9.06	122.69	109.10
1	B	889	C	O3'-P-O5'	-9.06	90.41	104.00
1	B	2779	U	O3'-P-O5'	-9.06	90.41	104.00
1	B	26	G	O3'-P-O5'	9.05	117.58	104.00
1	B	195	A	O3'-P-O5'	-9.06	90.42	104.00
1	B	1990	C	C5'-C4'-O4'	-9.06	96.22	109.80
1	B	188	G	O3'-P-O5'	9.05	117.58	104.00
1	B	1327	A	C2'-C3'-O3'	-9.05	100.12	113.70
1	B	2687	U	C5'-C4'-C3'	9.05	129.58	116.00
1	B	1127	A	C4'-C3'-O3'	9.04	126.56	113.00
1	B	1516	G	C5'-C4'-C3'	9.04	129.56	116.00
1	B	481	G	C5'-C4'-C3'	9.04	129.56	116.00
1	B	885	C	O3'-P-O5'	-9.04	90.44	104.00
1	B	980	A	O3'-P-O5'	-9.04	90.44	104.00
1	B	1284	A	O3'-P-O5'	-9.04	90.44	104.00
1	B	725	G	C4'-C3'-O3'	9.03	126.55	113.00
1	B	982	C	O3'-P-O5'	-9.03	90.45	104.00
1	B	548	G	P-O5'-C5'	9.03	134.44	120.90
1	B	1174	U	O3'-P-O5'	-9.03	90.46	104.00
1	B	1938	A	C5'-C4'-C3'	9.02	129.53	116.00
1	B	247	G	O3'-P-O5'	-9.02	90.47	104.00
1	B	566	U	O5'-C5'-C4'	9.02	125.03	111.50
1	B	931	U	C4'-C3'-O3'	9.02	126.53	113.00
1	B	1308	A	C4'-C3'-O3'	9.02	126.53	113.00
1	B	1730	C	O3'-P-O5'	-9.02	90.47	104.00
1	B	1626	A	O5'-C5'-C4'	9.01	125.02	111.50
1	B	1040	A	OP2-P-O3'	9.01	135.03	108.00
1	B	1573	G	P-O3'-C3'	9.01	133.71	120.20
1	B	1876	A	P-O5'-C5'	9.01	134.41	120.90
1	B	2474	U	O3'-P-O5'	-9.01	90.49	104.00
1	B	801	G	C4'-C3'-O3'	9.01	126.51	113.00
1	B	1425	G	C4'-C3'-O3'	9.00	126.51	113.00
1	B	1492	G	O3'-P-O5'	-9.00	90.50	104.00
1	B	1457	U	O3'-P-O5'	-9.00	90.50	104.00
1	B	2483	C	P-O3'-C3'	-9.00	106.70	120.20
1	B	2810	A	P-O3'-C3'	-8.99	106.71	120.20
1	B	1739	A	C2'-C3'-O3'	8.99	127.18	113.70
1	B	1553	A	C5'-C4'-O4'	8.98	123.28	109.80
1	B	159	G	O3'-P-O5'	-8.98	90.53	104.00
1	B	2471	A	O3'-P-O5'	-8.98	90.53	104.00
1	B	2500	U	O3'-P-O5'	-8.98	90.53	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1325	U	P-O3'-C3'	8.98	133.67	120.20
1	B	764	A	C2'-C3'-O3'	-8.98	100.24	113.70
1	B	1284	A	C5'-C4'-O4'	8.97	123.26	109.80
1	B	1566	A	C5'-C4'-O4'	-8.97	96.34	109.80
1	B	2765	A	C4'-C3'-O3'	8.97	126.46	113.00
1	B	412	A	C2'-C3'-O3'	8.97	127.15	113.70
1	B	1467	U	C5'-C4'-O4'	8.97	123.25	109.80
1	B	1523	U	P-O5'-C5'	8.96	134.35	120.90
1	B	2271	G	O3'-P-O5'	-8.96	90.55	104.00
1	B	372	G	C5'-C4'-C3'	8.96	129.44	116.00
1	B	1489	C	O3'-P-O5'	-8.96	90.56	104.00
1	B	2734	A	C5'-C4'-O4'	-8.96	96.36	109.80
1	B	981	A	O3'-P-O5'	-8.96	90.57	104.00
1	B	1275	A	O3'-P-O5'	-8.95	90.57	104.00
1	B	1869	G	C5'-C4'-C3'	8.95	129.43	116.00
1	B	2473	U	C5'-C4'-O4'	8.95	123.23	109.80
1	B	2681	C	P-O5'-C5'	8.95	134.32	120.90
1	B	896	A	C4'-C3'-O3'	-8.95	99.58	113.00
1	B	254	G	O3'-P-O5'	8.94	117.42	104.00
1	B	1273	U	C5'-C4'-C3'	8.94	129.41	116.00
1	B	214	G	P-O3'-C3'	8.94	133.61	120.20
1	B	675	A	C2'-C3'-O3'	-8.94	100.29	113.70
1	B	712	G	O3'-P-O5'	-8.94	90.59	104.00
1	B	2626	C	C5'-C4'-C3'	8.94	128.61	115.20
1	B	676	A	C2'-C3'-O3'	8.94	127.10	113.70
1	B	1900	A	C2'-C3'-O3'	-8.94	100.30	113.70
1	B	2156	G	O5'-C5'-C4'	8.94	124.90	111.50
1	B	321	U	C4'-C3'-O3'	8.93	126.39	113.00
1	B	555	G	C5'-C4'-C3'	8.93	129.39	116.00
1	B	677	A	P-O3'-C3'	8.93	133.59	120.20
1	B	2439	A	C5'-C4'-O4'	8.93	123.19	109.80
1	B	2454	G	O3'-P-O5'	-8.93	90.61	104.00
1	B	1235	G	C2'-C3'-O3'	-8.92	100.31	113.70
1	B	472	A	C4'-C3'-O3'	-8.92	99.62	113.00
1	B	1081	U	C2'-C3'-O3'	-8.92	100.32	113.70
1	B	1828	G	OP2-P-O3'	8.92	134.75	108.00
1	B	546	U	O3'-P-O5'	-8.92	90.63	104.00
1	B	846	U	C5'-C4'-C3'	8.92	129.37	116.00
1	B	1103	A	C4'-C3'-C2'	8.91	111.52	102.60
1	B	2505	G	C4'-C3'-O3'	8.91	126.37	113.00
1	B	1673	G	C5'-C4'-O4'	8.91	123.17	109.80
1	B	1940	U	O5'-C5'-C4'	8.91	124.87	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2238	G	O3'-P-O5'	-8.91	90.64	104.00
1	B	1739	A	O3'-P-O5'	8.90	117.35	104.00
1	B	1872	A	O3'-P-O5'	-8.90	90.65	104.00
1	B	62	U	C4'-C3'-O3'	8.90	126.34	113.00
1	B	367	G	C5'-C4'-C3'	8.90	129.34	116.00
1	B	861	A	OP1-P-O3'	-8.90	81.31	108.00
1	B	1351	C	O3'-P-O5'	-8.90	90.65	104.00
1	B	1251	C	C5'-C4'-C3'	8.90	129.34	116.00
1	B	984	A	C5'-C4'-O4'	8.89	123.14	109.80
1	B	2638	G	P-O5'-C5'	8.89	134.24	120.90
1	B	1818	U	C4'-C3'-O3'	8.89	126.33	113.00
1	B	2685	G	C5'-C4'-C3'	8.89	129.34	116.00
1	B	160	A	C4'-C3'-O3'	8.88	126.32	113.00
1	B	451	U	O3'-P-O5'	-8.88	90.68	104.00
1	B	1941	C	O3'-P-O5'	8.88	117.32	104.00
1	B	1226	A	O3'-P-O5'	-8.88	90.68	104.00
1	B	47	C	C5'-C4'-C3'	8.88	129.31	116.00
1	B	92	U	C5'-C4'-C3'	8.88	129.31	116.00
1	B	385	C	O3'-P-O5'	-8.87	90.69	104.00
1	B	982	C	C5'-C4'-O4'	8.87	123.11	109.80
1	B	1687	G	O3'-P-O5'	-8.87	90.69	104.00
1	B	2562	U	C5'-C4'-O4'	8.87	122.41	109.10
1	B	442	G	O3'-P-O5'	-8.87	90.69	104.00
1	B	916	G	OP2-P-O3'	8.87	134.60	108.00
1	B	1022	G	O3'-P-O5'	-8.87	90.70	104.00
1	B	213	A	C5'-C4'-O4'	8.87	123.10	109.80
1	B	571	U	C2'-C3'-O3'	8.86	127.00	113.70
1	B	2752	C	O5'-C5'-C4'	8.86	124.80	111.50
1	B	2162	G	C5'-C4'-C3'	8.85	129.28	116.00
1	B	2211	A	C5'-C4'-C3'	8.85	129.28	116.00
1	B	2449	5MU	P-O3'-C3'	8.85	133.48	120.20
1	B	1676	A	C5'-C4'-O4'	-8.85	96.53	109.80
1	B	1493	C	O3'-P-O5'	-8.85	90.73	104.00
1	B	2366	A	C4'-C3'-O3'	8.85	126.27	113.00
1	B	2778	A	C5'-C4'-C3'	8.85	129.27	116.00
1	B	1357	C	O3'-P-O5'	-8.85	90.73	104.00
1	B	1490	A	C2'-C3'-O3'	8.85	126.97	113.70
1	B	241	A	O3'-P-O5'	8.84	117.26	104.00
1	B	572	A	O5'-C5'-C4'	-8.84	98.24	111.50
1	B	2055	C	C2'-C3'-O3'	8.84	126.96	113.70
1	B	932	U	C4'-C3'-O3'	8.84	126.26	113.00
1	B	555	G	C5'-C4'-O4'	8.84	123.06	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2320	U	O3'-P-O5'	-8.84	90.74	104.00
1	B	2552	U	O5'-C5'-C4'	8.84	124.76	111.50
1	B	2613	U	C4'-C3'-O3'	8.84	126.26	113.00
1	B	1720	U	O3'-P-O5'	-8.84	90.74	104.00
1	B	1516	G	O5'-C5'-C4'	8.84	124.75	111.50
1	B	71	A	O3'-P-O5'	-8.83	90.75	104.00
1	B	1706	C	O3'-P-O5'	-8.83	90.75	104.00
1	B	1968	G	O5'-C5'-C4'	8.83	124.75	111.50
1	B	1970	A	O3'-P-O5'	8.83	117.24	104.00
1	B	1127	A	P-O5'-C5'	8.83	134.14	120.90
1	B	677	A	P-O5'-C5'	-8.83	107.66	120.90
1	B	1445	G	C4'-C3'-O3'	8.82	126.24	113.00
1	B	1456	G	O3'-P-O5'	-8.82	90.77	104.00
1	B	945	A	C5'-C4'-C3'	8.82	129.23	116.00
1	B	655	A	O3'-P-O5'	-8.82	90.77	104.00
1	B	2449	5MU	O3'-P-O5'	8.82	117.23	104.00
1	B	788	A	C5'-C4'-O4'	8.82	123.02	109.80
1	B	1225	G	O3'-P-O5'	-8.82	90.78	104.00
1	B	1546	G	P-O3'-C3'	8.82	133.43	120.20
1	B	2533	U	O3'-P-O5'	-8.82	90.78	104.00
1	B	1585	C	C5'-C4'-O4'	8.81	123.02	109.80
1	B	1851	U	C2'-C3'-O3'	8.81	126.92	113.70
1	B	167	A	P-O3'-C3'	8.81	133.41	120.20
1	B	2752	C	C2'-C3'-O3'	8.81	126.92	113.70
1	B	505	A	C5'-C4'-O4'	8.80	123.01	109.80
1	B	1865	U	OP2-P-O3'	-8.80	81.59	108.00
1	B	1954	G	C4'-C3'-O3'	8.80	126.20	113.00
1	B	864	G	O3'-P-O5'	-8.80	90.80	104.00
1	B	1722	A	O3'-P-O5'	-8.80	90.80	104.00
1	B	836	G	C5'-C4'-C3'	8.80	129.20	116.00
1	B	234	U	P-O3'-C3'	-8.80	107.00	120.20
1	B	100	U	O3'-P-O5'	-8.79	90.81	104.00
1	B	2542	A	C2'-C3'-O3'	8.79	126.89	113.70
1	B	9	G	C2'-C3'-O3'	8.79	126.89	113.70
1	B	2169	A	O3'-P-O5'	-8.79	90.81	104.00
1	B	2274	A	O3'-P-O5'	-8.79	90.81	104.00
1	B	177	G	O3'-P-O5'	-8.79	90.82	104.00
1	B	1154	G	C2'-C3'-O3'	8.78	126.88	113.70
1	B	1572	A	O3'-P-O5'	8.78	117.17	104.00
1	B	2613	U	O5'-C5'-C4'	8.78	124.67	111.50
1	B	1263	U	C4'-C3'-O3'	8.78	126.17	113.00
1	B	1417	C	C5'-C4'-C3'	8.78	129.17	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1745	A	C5'-C4'-O4'	8.78	122.97	109.80
1	B	2556	C	C5'-C4'-O4'	8.78	122.97	109.80
1	B	562	U	O3'-P-O5'	-8.78	90.84	104.00
1	B	570	G	C5'-C4'-O4'	-8.78	96.64	109.80
1	B	1033	U	P-O3'-C3'	-8.78	107.04	120.20
1	B	1390	U	C4'-C3'-O3'	8.78	126.16	113.00
1	B	1598	A	C4'-C3'-O3'	8.77	126.16	113.00
1	B	1598	A	P-O3'-C3'	-8.77	107.05	120.20
1	B	2061	G	O5'-C5'-C4'	8.77	124.65	111.50
1	B	257	C	P-O3'-C3'	-8.77	107.05	120.20
1	B	1535	A	O3'-P-O5'	-8.77	90.85	104.00
1	B	2448	A	P-O5'-C5'	8.76	134.04	120.90
1	B	1283	G	C5'-C4'-C3'	8.75	129.13	116.00
1	B	612	G	O3'-P-O5'	-8.75	90.87	104.00
1	B	2318	G	O5'-C5'-C4'	8.75	124.63	111.50
1	B	72	U	O5'-C5'-C4'	-8.75	98.38	111.50
1	B	2163	A	P-O5'-C5'	8.75	134.02	120.90
1	B	367	G	C5'-C4'-O4'	8.74	122.91	109.80
1	B	1731	G	O3'-P-O5'	-8.74	90.89	104.00
1	B	2754	U	C5'-C4'-C3'	8.74	129.11	116.00
1	B	1678	A	C4'-C3'-O3'	8.74	126.11	113.00
1	B	1722	A	C5'-C4'-O4'	8.74	122.91	109.80
1	B	344	A	O5'-C5'-C4'	8.73	124.60	111.50
1	B	1309	G	O3'-P-O5'	-8.73	90.90	104.00
1	B	1567	G	O5'-C5'-C4'	8.73	124.60	111.50
1	B	2722	G	P-O3'-C3'	8.73	133.30	120.20
1	B	2439	A	O3'-P-O5'	-8.73	90.91	104.00
1	B	299	A	C5'-C4'-C3'	8.73	129.09	116.00
1	B	1125	G	C5'-C4'-C3'	8.73	129.09	116.00
1	B	1265	A	O3'-P-O5'	-8.72	90.91	104.00
1	B	1652	A	O5'-C5'-C4'	8.72	124.59	111.50
1	B	2346	A	C4'-C3'-O3'	8.72	126.09	113.00
1	B	2689	U	C2'-C3'-O3'	8.72	126.78	113.70
1	B	1454	C	C5'-C4'-O4'	8.72	122.88	109.80
1	B	1032	A	O3'-P-O5'	-8.71	90.93	104.00
1	B	1360	G	O3'-P-O5'	-8.71	90.93	104.00
1	B	2754	U	O3'-P-O5'	-8.72	90.93	104.00
1	B	99	U	C4'-C3'-O3'	8.71	126.07	113.00
1	B	2210	U	O5'-C5'-C4'	8.71	124.57	111.50
1	B	2701	U	O3'-P-O5'	-8.71	90.94	104.00
1	B	2856	A	O3'-P-O5'	-8.71	90.94	104.00
1	B	2585	U	C5'-C4'-C3'	8.70	129.05	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	219	A	C5'-C4'-O4'	8.70	122.85	109.80
1	B	2031	A	O3'-P-O5'	-8.70	90.95	104.00
1	B	585	G	C5'-C4'-C3'	8.70	129.04	116.00
1	B	826	U	O3'-P-O5'	-8.69	90.96	104.00
1	B	1515	A	C5'-C4'-C3'	8.70	129.04	116.00
1	B	931	U	O5'-C5'-C4'	8.69	124.54	111.50
1	B	1803	A	P-O5'-C5'	8.69	133.93	120.90
1	B	2689	U	P-O5'-C5'	-8.69	107.87	120.90
1	B	36	G	O3'-P-O5'	-8.69	90.97	104.00
1	B	2757	A	C5'-C4'-O4'	8.69	122.83	109.80
1	B	462	C	P-O3'-C3'	-8.69	107.17	120.20
1	B	139	U	O3'-P-O5'	-8.68	90.97	104.00
1	B	481	G	C4'-C3'-O3'	8.68	126.02	113.00
1	B	2753	A	O3'-P-O5'	-8.68	90.98	104.00
1	B	646	U	P-O5'-C5'	8.68	133.92	120.90
1	B	1681	G	P-O5'-C5'	-8.68	107.88	120.90
1	B	829	A	O3'-P-O5'	-8.68	90.99	104.00
1	B	1074	G	N9-C1'-C2'	8.68	125.02	112.00
1	B	1155	A	C2'-C3'-O3'	-8.68	100.68	113.70
1	B	2844	G	O5'-C5'-C4'	8.68	124.72	111.70
1	B	2890	G	O5'-C5'-C4'	8.68	124.52	111.50
1	B	1025	G	O3'-P-O5'	-8.68	90.99	104.00
1	B	509	C	O3'-P-O5'	-8.67	90.99	104.00
1	B	804	A	C4'-C3'-O3'	8.67	126.01	113.00
1	B	805	G	P-O3'-C3'	-8.67	107.20	120.20
1	B	1937	A	C5'-C4'-O4'	8.67	122.81	109.80
1	B	2055	C	O5'-C5'-C4'	8.67	124.51	111.50
1	B	2361	G	O5'-C5'-C4'	8.67	124.50	111.50
1	B	1567	G	C5'-C4'-C3'	-8.67	103.00	116.00
1	B	1371	G	O3'-P-O5'	-8.66	91.00	104.00
1	B	975	A	C4'-C3'-O3'	8.66	125.99	113.00
1	B	2847	U	C2'-C3'-O3'	8.66	126.69	113.70
1	B	1524	G	O3'-P-O5'	-8.66	91.01	104.00
1	B	2806	C	C5'-C4'-C3'	8.66	128.99	116.00
1	B	586	A	P-O5'-C5'	8.66	133.88	120.90
1	B	48	G	C4'-C3'-O3'	8.65	125.98	113.00
1	B	859	G	O3'-P-O5'	-8.65	91.02	104.00
1	B	300	A	OP1-P-O3'	-8.64	82.07	108.00
1	B	1729	U	O3'-P-O5'	-8.64	91.04	104.00
1	B	1129	A	C4'-C3'-O3'	8.64	125.96	113.00
1	B	2275	C	O3'-P-O5'	-8.64	91.04	104.00
1	B	250	G	O3'-P-O5'	-8.63	91.06	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2468	A	C5'-C4'-C3'	8.63	128.94	116.00
1	B	1175	A	O3'-P-O5'	-8.62	91.06	104.00
1	B	2111	U	C5'-C4'-C3'	8.63	128.94	116.00
1	B	2110	G	C4'-C3'-O3'	8.62	125.94	113.00
1	B	981	A	P-O3'-C3'	-8.62	107.27	120.20
1	B	1264	A	O3'-P-O5'	-8.62	91.07	104.00
1	B	1466	U	C5'-C4'-C3'	8.62	128.93	116.00
1	B	2472	G	P-O5'-C5'	8.62	133.83	120.90
1	B	2477	U	C5'-C4'-O4'	8.62	122.72	109.80
1	B	2720	U	O3'-P-O5'	-8.61	91.08	104.00
1	B	514	A	C4'-C3'-O3'	8.61	125.92	113.00
1	B	2481	G	O3'-P-O5'	-8.61	91.09	104.00
1	B	2512	C	O3'-P-O5'	-8.61	91.09	104.00
1	B	1681	G	C5'-C4'-C3'	-8.61	103.09	116.00
1	B	931	U	C2'-C3'-O3'	8.60	126.60	113.70
1	B	972	A	C2'-C3'-O3'	-8.60	100.80	113.70
1	B	160	A	C2'-C3'-O3'	8.60	126.60	113.70
1	B	432	A	C2'-C3'-O3'	-8.60	100.81	113.70
1	B	1001	A	O3'-P-O5'	-8.60	91.11	104.00
1	B	713	G	C2'-C3'-O3'	8.59	126.59	113.70
1	B	2573	C	C2'-C3'-O3'	8.59	126.59	113.70
1	B	1669	A	O3'-P-O5'	-8.59	91.11	104.00
1	B	1185	G	P-O3'-C3'	8.59	133.08	120.20
1	B	1758	U	C5'-C4'-C3'	8.59	128.88	116.00
1	B	1855	U	O5'-C5'-C4'	8.59	124.38	111.50
1	B	1070	A	O4'-C1'-C2'	8.59	114.39	105.80
1	B	2867	G	C4'-C3'-O3'	8.59	125.88	113.00
1	B	1677	A	P-O5'-C5'	8.58	133.78	120.90
1	B	2721	A	C2'-C3'-O3'	8.58	126.57	113.70
1	B	62	U	C5'-C4'-C3'	8.58	128.87	116.00
1	B	331	C	C2'-C3'-O3'	-8.57	100.84	113.70
1	B	1852	U	O3'-P-O5'	8.57	116.86	104.00
1	B	2505	G	C5'-C4'-O4'	8.57	122.65	109.80
1	B	463	G	C2'-C3'-O3'	8.57	126.55	113.70
1	B	1287	A	P-O5'-C5'	8.57	133.75	120.90
1	B	1699	G	P-O5'-C5'	8.57	133.75	120.90
1	B	2334	U	C5'-C4'-C3'	8.56	128.84	116.00
1	B	2529	G	C5'-C4'-C3'	8.56	128.84	116.00
1	B	371	A	C4'-C3'-O3'	8.55	125.83	113.00
1	B	476	G	O3'-P-O5'	8.55	116.83	104.00
1	B	1552	A	C5'-C4'-C3'	8.55	128.83	116.00
1	B	2202	U	O3'-P-O5'	-8.55	91.17	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2595	G	O3'-P-O5'	-8.55	91.17	104.00
1	B	228	C	O3'-P-O5'	-8.55	91.18	104.00
1	B	405	U	O5'-C5'-C4'	8.55	124.32	111.50
1	B	2324	U	O3'-P-O5'	-8.55	91.18	104.00
1	B	1209	U	P-O3'-C3'	-8.55	107.38	120.20
1	B	2477	U	C2'-C3'-O3'	8.54	126.51	113.70
1	B	2721	A	C5'-C4'-C3'	8.54	128.81	116.00
1	B	330	A	C2'-C3'-O3'	-8.54	100.89	113.70
1	B	64	A	C5'-C4'-C3'	8.54	128.81	116.00
1	B	1889	A	C5'-C4'-C3'	8.54	128.81	116.00
1	B	2112	G	C4'-C3'-O3'	8.54	125.81	113.00
1	B	1141	U	C5'-C4'-O4'	8.54	122.60	109.80
1	B	452	G	C2'-C3'-O3'	8.53	126.50	113.70
1	B	1900	A	C5'-C4'-C3'	8.52	128.79	116.00
1	B	975	A	O3'-P-O5'	-8.52	91.22	104.00
1	B	1696	G	C2'-C3'-O3'	-8.52	100.92	113.70
1	B	995	C	C5'-C4'-O4'	8.52	122.58	109.80
1	B	1952	A	O5'-C5'-C4'	8.51	124.27	111.50
1	B	571	U	C5'-C4'-O4'	8.51	122.56	109.80
1	B	776	G	O3'-P-O5'	-8.51	91.23	104.00
1	B	2018	G	C5'-C4'-O4'	8.51	122.56	109.80
1	B	2774	C	P-O3'-C3'	8.51	132.97	120.20
1	B	1322	A	C2'-C3'-O3'	8.51	126.46	113.70
1	B	1807	G	O3'-P-O5'	-8.51	91.24	104.00
1	B	563	A	C2'-C3'-O3'	8.50	126.46	113.70
1	B	1358	G	P-O3'-C3'	-8.50	107.44	120.20
1	B	249	C	O3'-P-O5'	-8.50	91.25	104.00
1	B	2265	U	C5'-C4'-C3'	8.50	128.75	116.00
1	B	1028	A	O5'-C5'-C4'	8.50	124.25	111.50
1	B	2266	A	O3'-P-O5'	-8.50	91.25	104.00
1	B	2721	A	C4'-C3'-O3'	8.50	125.74	113.00
1	B	453	A	C5'-C4'-O4'	8.49	122.54	109.80
1	B	2885	G	C5'-C4'-O4'	8.49	122.54	109.80
1	B	401	A	C5'-C4'-C3'	8.49	128.74	116.00
1	B	507	A	C4'-C3'-O3'	8.49	125.73	113.00
1	B	2286	G	C5'-C4'-C3'	8.49	128.74	116.00
1	B	255	A	C4'-C3'-O3'	8.49	125.73	113.00
1	B	531	C	O3'-P-O5'	-8.49	91.27	104.00
1	B	368	A	P-O3'-C3'	8.48	132.93	120.20
1	B	1803	A	C4'-C3'-O3'	8.48	125.73	113.00
1	B	27	G	O5'-C5'-C4'	8.48	124.22	111.50
1	B	630	G	C4'-C3'-O3'	8.47	125.70	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1299	G	C5'-C4'-O4'	8.47	122.51	109.80
1	B	1527	G	P-O5'-C5'	-8.47	108.19	120.90
1	B	1808	A	O3'-P-O5'	-8.47	91.29	104.00
1	B	2345	G	O5'-C5'-C4'	8.47	124.21	111.50
1	B	2713	U	O3'-P-O5'	-8.47	91.29	104.00
1	B	1859	U	C4'-C3'-O3'	-8.47	100.30	113.00
1	B	1902	C	OP2-P-O3'	8.47	133.41	108.00
1	B	1019	U	P-O3'-C3'	8.47	132.90	120.20
1	B	1084	A	C1'-C2'-O2'	8.46	121.10	108.40
1	B	1963	U	O3'-P-O5'	-8.46	91.30	104.00
1	B	1091	G	N9-C1'-C2'	8.46	124.69	112.00
1	B	189	G	C4'-C3'-O3'	8.46	125.69	113.00
1	B	1379	U	C2'-C3'-O3'	-8.46	101.01	113.70
1	B	776	G	C5'-C4'-C3'	8.46	128.68	116.00
1	B	609	A	P-O3'-C3'	8.45	132.88	120.20
1	B	2365	G	O3'-P-O5'	-8.45	91.32	104.00
1	B	300	A	P-O3'-C3'	8.45	132.88	120.20
1	B	1714	U	O3'-P-O5'	-8.45	91.32	104.00
1	B	1743	G	O3'-P-O5'	-8.45	91.32	104.00
1	B	137	U	O3'-P-O5'	-8.45	91.33	104.00
1	B	920	A	O3'-P-O5'	-8.44	91.34	104.00
1	B	1104	C	C2'-C3'-O3'	8.44	126.36	113.70
1	B	2724	U	C4'-C3'-O3'	8.44	125.66	113.00
1	B	2747	G	P-O5'-C5'	8.44	133.56	120.90
1	B	1698	A	C5'-C4'-C3'	8.44	128.66	116.00
1	B	1848	A	P-O5'-C5'	-8.44	108.25	120.90
1	B	1912	A	C5'-C4'-C3'	8.44	128.65	116.00
1	B	1773	A	C5'-C4'-C3'	8.43	128.64	116.00
1	B	1433	A	C5'-C4'-O4'	8.43	122.44	109.80
1	B	1654	A	C4'-C3'-O3'	8.43	125.64	113.00
1	B	1940	U	C5'-C4'-C3'	8.43	128.64	116.00
1	B	2681	C	O3'-P-O5'	-8.43	91.36	104.00
1	B	560	C	O3'-P-O5'	-8.42	91.36	104.00
1	B	1647	U	P-O5'-C5'	8.42	133.53	120.90
1	B	914	G	C5'-C4'-O4'	8.42	122.43	109.80
1	B	1095	A	C1'-C2'-O2'	8.42	121.03	108.40
1	B	1266	G	O3'-P-O5'	-8.42	91.37	104.00
1	B	2810	A	C5'-C4'-O4'	8.42	122.42	109.80
1	B	1073	A	C1'-C2'-O2'	8.41	121.02	108.40
1	B	2521	C	OP2-P-O3'	8.41	133.24	108.00
1	B	2878	U	O3'-P-O5'	-8.41	91.38	104.00
1	B	1115	G	C5'-C4'-O4'	8.41	122.42	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2702	G	C5'-C4'-O4'	8.41	122.42	109.80
1	B	2826	A	C5'-C4'-O4'	8.41	122.41	109.80
1	B	1936	A	OP2-P-O3'	-8.41	82.78	108.00
1	B	513	A	O5'-C5'-C4'	8.40	124.11	111.50
1	B	2116	G	O3'-P-O5'	-8.40	91.39	104.00
1	B	2695	U	OP2-P-O3'	8.40	133.22	108.00
1	B	1125	G	C5'-C4'-O4'	-8.40	97.20	109.80
1	B	502	A	O5'-C5'-C4'	8.40	124.10	111.50
1	B	1807	G	P-O5'-C5'	8.40	133.50	120.90
1	B	1012	U	P-O5'-C5'	-8.39	108.31	120.90
1	B	1452	G	O5'-C5'-C4'	8.39	124.09	111.50
1	B	1887	C	P-O3'-C3'	8.39	132.79	120.20
1	B	2473	U	C5'-C4'-C3'	8.39	128.59	116.00
1	B	2808	G	C5'-C4'-O4'	8.39	122.39	109.80
1	B	2582	G	O3'-P-O5'	-8.39	91.42	104.00
1	B	2807	U	C5'-C4'-C3'	8.38	128.57	116.00
1	B	870	U	P-O3'-C3'	8.38	132.77	120.20
1	B	2104	C	C4'-C3'-O3'	8.38	125.57	113.00
1	B	1204	A	O3'-P-O5'	-8.38	91.43	104.00
1	B	2835	A	C5'-C4'-O4'	8.38	122.37	109.80
1	B	837	C	O3'-P-O5'	-8.38	91.44	104.00
1	B	1418	G	C4'-C3'-O3'	8.38	125.56	113.00
1	B	2682	A	C5'-C4'-C3'	8.37	128.56	116.00
1	B	975	A	O5'-C5'-C4'	8.37	124.06	111.50
1	B	1285	A	O3'-P-O5'	-8.37	91.45	104.00
1	B	1391	U	O3'-P-O5'	-8.37	91.45	104.00
1	B	1647	U	C4'-C3'-O3'	8.37	125.55	113.00
1	B	499	U	O3'-P-O5'	-8.37	91.45	104.00
1	B	585	G	C2'-C3'-O3'	8.37	126.25	113.70
1	B	1675	C	C2'-C3'-O3'	8.37	126.25	113.70
1	B	1697	G	O3'-P-O5'	-8.37	91.45	104.00
1	B	2135	A	C5'-C4'-C3'	8.37	128.55	116.00
1	B	46	G	O3'-P-O5'	8.37	116.55	104.00
1	B	1416	G	C5'-C4'-C3'	8.36	128.55	116.00
1	B	218	A	C5'-C4'-C3'	8.36	128.54	116.00
1	B	2308	G	P-O5'-C5'	8.36	133.44	120.90
1	B	2552	U	C5'-C4'-O4'	8.35	122.33	109.80
1	B	2297	A	O3'-P-O5'	8.35	116.53	104.00
1	B	103	A	C5'-C4'-O4'	-8.35	97.28	109.80
1	B	1701	A	P-O5'-C5'	8.35	133.42	120.90
1	B	508	A	O3'-P-O5'	-8.35	91.48	104.00
1	B	1300	G	C2'-C3'-O3'	8.35	126.22	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2232	C	O3'-P-O5'	-8.35	91.48	104.00
1	B	1326	U	C5'-C4'-O4'	-8.34	97.29	109.80
1	B	2607	G	C5'-C4'-O4'	8.34	122.31	109.80
1	B	685	A	P-O5'-C5'	8.34	133.41	120.90
1	B	2375	G	O3'-P-O5'	-8.34	91.49	104.00
1	B	2320	U	C4'-C3'-O3'	8.34	125.51	113.00
1	B	2103	C	P-O3'-C3'	-8.34	107.69	120.20
1	B	2061	G	C4'-C3'-O3'	-8.34	100.50	113.00
1	B	505	A	C4'-C3'-O3'	8.33	125.50	113.00
1	B	981	A	C5'-C4'-O4'	8.33	122.30	109.80
1	B	1646	C	C4'-C3'-O3'	8.33	125.50	113.00
1	B	1968	G	C5'-C4'-C3'	8.33	128.50	116.00
1	B	762	U	C4'-C3'-O3'	8.33	125.49	113.00
1	B	1059	G	C1'-C2'-O2'	8.33	120.89	108.40
1	B	504	A	O3'-P-O5'	-8.32	91.52	104.00
1	B	2389	G	P-O5'-C5'	8.32	133.39	120.90
1	B	1154	G	O3'-P-O5'	-8.32	91.52	104.00
1	B	2422	C	C5'-C4'-C3'	8.32	128.48	116.00
1	B	2584	U	O3'-P-O5'	-8.32	91.52	104.00
1	B	1720	U	C5'-C4'-O4'	8.32	122.28	109.80
1	B	2156	G	C5'-C4'-O4'	-8.31	97.33	109.80
1	B	1514	G	O3'-P-O5'	-8.31	91.53	104.00
1	B	1365	A	O3'-P-O5'	-8.31	91.54	104.00
1	B	2585	U	C5'-C4'-O4'	8.31	122.26	109.80
1	B	2165	C	C5'-C4'-C3'	8.31	128.46	116.00
1	B	2504	U	C4'-C3'-O3'	-8.30	100.55	113.00
1	B	1889	A	P-O5'-C5'	-8.30	108.45	120.90
1	B	1940	U	C2'-C3'-O3'	8.30	126.15	113.70
1	B	218	A	C5'-C4'-O4'	8.30	122.25	109.80
1	B	887	U	O3'-P-O5'	-8.30	91.55	104.00
1	B	1604	C	C4'-C3'-O3'	8.30	125.45	113.00
1	B	2751	G	O3'-P-O5'	8.30	116.45	104.00
1	B	973	A	C4'-C3'-O3'	8.29	125.44	113.00
1	B	412	A	P-O3'-C3'	8.29	132.63	120.20
1	B	1417	C	C4'-C3'-O3'	8.29	125.43	113.00
1	B	2131	U	O3'-P-O5'	-8.29	91.57	104.00
1	B	587	C	O5'-C5'-C4'	8.29	123.93	111.50
1	B	2405	G	O3'-P-O5'	8.29	116.43	104.00
1	B	732	C	P-O3'-C3'	-8.28	107.78	120.20
1	B	1772	A	O3'-P-O5'	-8.28	91.58	104.00
1	B	1930	G	O5'-C5'-C4'	8.28	123.92	111.50
1	B	1713	A	C5'-C4'-C3'	-8.28	103.58	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1261	C	OP1-P-O3'	8.28	132.83	108.00
1	B	1523	U	C5'-C4'-O4'	8.28	122.22	109.80
1	B	1814	G	C2'-C3'-O3'	8.28	126.11	113.70
1	B	10	A	C4'-C3'-O3'	8.27	125.41	113.00
1	B	1728	C	O3'-P-O5'	-8.27	91.59	104.00
1	B	2144	G	C5'-C4'-O4'	8.27	122.21	109.80
1	B	2237	G	O3'-P-O5'	-8.27	91.59	104.00
1	B	1560	G	P-O3'-C3'	-8.27	107.80	120.20
1	B	1670	C	O3'-P-O5'	-8.27	91.60	104.00
1	B	1039	A	C5'-C4'-C3'	8.27	128.40	116.00
1	B	1139	G	P-O5'-C5'	-8.27	108.50	120.90
1	B	1383	A	C5'-C4'-O4'	8.26	122.19	109.80
1	B	1887	C	C2'-C3'-O3'	8.26	126.09	113.70
1	B	544	C	O3'-P-O5'	-8.26	91.61	104.00
1	B	2376	A	O3'-P-O5'	-8.26	91.62	104.00
1	B	577	G	C5'-C4'-O4'	8.25	122.18	109.80
1	B	161	A	P-O5'-C5'	8.24	133.27	120.90
1	B	2012	G	P-O3'-C3'	8.24	132.57	120.20
1	B	1141	U	C2'-C3'-O3'	8.24	126.06	113.70
1	B	1523	U	C2'-C3'-O3'	8.24	126.06	113.70
1	B	1834	U	O5'-C5'-C4'	8.24	123.86	111.50
1	B	228	C	C5'-C4'-O4'	8.24	122.16	109.80
1	B	1070	A	C1'-O4'-C4'	-8.24	101.46	109.70
1	B	1189	A	C2'-C3'-O3'	8.24	126.06	113.70
1	B	1384	A	C5'-C4'-C3'	8.24	128.36	116.00
1	B	573	U	P-O5'-C5'	8.24	133.25	120.90
1	B	1310	G	P-O5'-C5'	8.24	133.26	120.90
1	B	2725	A	O5'-C5'-C4'	8.23	123.84	111.50
1	B	139	U	C2'-C3'-O3'	8.23	126.04	113.70
1	B	321	U	C5'-C4'-C3'	8.23	128.34	116.00
1	B	432	A	O5'-C5'-C4'	8.23	123.84	111.50
1	B	512	G	C5'-C4'-O4'	8.22	122.13	109.80
1	B	2252	G	P-O5'-C5'	8.22	133.23	120.90
1	B	50	U	C5'-C4'-O4'	-8.22	97.47	109.80
1	B	576	U	P-O5'-C5'	8.22	133.23	120.90
1	B	2574	G	C5'-C4'-C3'	8.22	128.32	116.00
1	B	1262	A	P-O3'-C3'	-8.21	107.89	120.20
1	B	1640	A	C4'-C3'-O3'	8.21	125.31	113.00
1	B	2265	U	P-O5'-C5'	8.21	133.21	120.90
1	B	1654	A	C5'-C4'-C3'	8.21	128.31	116.00
1	B	1021	A	C5'-C4'-C3'	8.21	128.31	116.00
1	B	1678	A	O5'-C5'-C4'	8.21	123.81	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2358	A	O3'-P-O5'	-8.20	91.69	104.00
1	B	183	C	C2'-C3'-O3'	-8.20	101.40	113.70
1	B	247	G	P-O5'-C5'	8.20	133.20	120.90
1	B	2040	G	P-O3'-C3'	-8.20	107.90	120.20
1	B	492	A	O3'-P-O5'	-8.20	91.70	104.00
1	B	2345	G	C4'-C3'-O3'	8.20	125.30	113.00
1	B	2505	G	OP1-P-O3'	-8.20	83.41	108.00
1	B	1927	A	C4'-C3'-O3'	-8.20	96.11	112.50
1	B	2807	U	O3'-P-O5'	-8.20	91.70	104.00
1	B	2158	A	C4'-C3'-O3'	8.19	125.29	113.00
1	B	1883	U	O5'-C5'-C4'	8.19	123.78	111.50
1	B	1454	C	O3'-P-O5'	-8.19	91.72	104.00
1	B	1285	A	C5'-C4'-C3'	8.18	128.27	116.00
1	B	1738	G	C4'-C3'-O3'	8.18	125.28	113.00
1	B	2111	U	O5'-C5'-C4'	8.18	123.78	111.50
1	B	847	U	O3'-P-O5'	8.18	116.27	104.00
1	B	1136	G	C5'-C4'-O4'	8.18	122.07	109.80
1	B	1674	G	C4'-C3'-O3'	8.18	125.27	113.00
1	B	918	A	O5'-C5'-C4'	8.17	123.76	111.50
1	B	989	G	C4'-C3'-O3'	8.17	125.26	113.00
1	B	1021	A	C5'-C4'-O4'	8.17	122.06	109.80
1	B	2051	A	C2'-C3'-O3'	8.17	125.96	113.70
1	B	2209	G	P-O3'-C3'	-8.17	107.95	120.20
1	B	2466	C	O3'-P-O5'	-8.17	91.74	104.00
1	B	1888	G	O5'-C5'-C4'	8.16	123.75	111.50
1	B	574	A	O3'-P-O5'	-8.16	91.75	104.00
1	B	718	A	O3'-P-O5'	-8.16	91.76	104.00
1	B	956	G	C5'-C4'-O4'	8.16	122.05	109.80
1	B	2214	C	C2'-C3'-O3'	8.16	125.94	113.70
1	B	2521	C	O3'-P-O5'	8.16	116.23	104.00
1	B	1495	A	O3'-P-O5'	-8.15	91.78	104.00
1	B	62	U	C2'-C3'-O3'	8.14	125.92	113.70
1	B	1728	C	P-O5'-C5'	8.14	133.12	120.90
1	B	1396	U	O3'-P-O5'	-8.14	91.79	104.00
1	B	1782	U	O3'-P-O5'	-8.14	91.79	104.00
1	B	2583	G	C5'-C4'-O4'	8.14	122.01	109.80
1	B	571	U	P-O3'-C3'	-8.14	107.99	120.20
1	B	1937	A	C5'-C4'-C3'	8.14	128.21	116.00
1	B	1977	A	C4'-C3'-O3'	8.13	125.20	113.00
1	B	15	G	C2'-C3'-O3'	-8.13	101.50	113.70
1	B	776	G	C2'-C3'-O3'	-8.13	101.50	113.70
1	B	2126	A	C5'-C4'-C3'	8.13	128.20	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2361	G	O3'-P-O5'	-8.13	91.80	104.00
1	B	2732	G	P-O5'-C5'	8.13	133.09	120.90
1	B	609	A	C4'-C3'-O3'	8.13	125.19	113.00
1	B	489	G	O3'-P-O5'	-8.13	91.81	104.00
1	B	1328	A	O3'-P-O5'	-8.13	91.81	104.00
1	B	2393	U	P-O3'-C3'	8.13	132.39	120.20
1	B	2893	A	O3'-P-O5'	-8.13	91.81	104.00
1	B	477	A	C5'-C4'-O4'	-8.13	97.61	109.80
1	B	866	A	C5'-C4'-C3'	8.12	128.19	116.00
1	B	1032	A	C2'-C3'-O3'	8.12	125.89	113.70
1	B	1075	C	C1'-C2'-O2'	8.12	120.58	108.40
1	B	2126	A	O3'-P-O5'	-8.12	91.82	104.00
1	B	2274	A	P-O5'-C5'	8.12	133.08	120.90
1	B	2136	G	OP1-P-OP2	-8.12	95.25	119.60
1	B	497	A	O5'-C5'-C4'	8.11	123.67	111.50
1	B	2104	C	C2'-C3'-O3'	8.11	125.87	113.70
1	B	13	A	C4'-C3'-O3'	8.11	125.17	113.00
1	B	1653	G	C4'-C3'-O3'	8.11	125.17	113.00
1	B	865	C	C5'-C4'-C3'	8.11	128.16	116.00
1	B	1248	G	C5'-C4'-O4'	8.11	121.97	109.80
1	B	1534	U	O3'-P-O5'	-8.11	91.83	104.00
1	B	1395	A	O3'-P-O5'	-8.11	91.84	104.00
1	B	2135	A	OP1-P-O3'	8.11	132.32	108.00
1	B	1069	A	C1'-C2'-O2'	8.10	123.95	111.80
1	B	1059	G	N9-C1'-C2'	8.10	124.15	112.00
1	B	2134	A	C2'-C3'-O3'	8.10	125.85	113.70
1	B	1698	A	O3'-P-O5'	-8.10	91.86	104.00
1	B	2685	G	O3'-P-O5'	-8.10	91.86	104.00
1	B	2111	U	O3'-P-O5'	8.09	116.13	104.00
1	B	2779	U	O5'-C5'-C4'	8.09	123.63	111.50
1	B	2860	A	O3'-P-O5'	-8.09	91.87	104.00
1	B	2335	A	C5'-C4'-O4'	-8.09	97.67	109.80
1	B	675	A	O3'-P-O5'	-8.08	91.87	104.00
1	B	2531	A	O3'-P-O5'	-8.08	91.87	104.00
1	B	2891	U	O3'-P-O5'	-8.08	91.88	104.00
1	B	1521	G	C2'-C3'-O3'	8.08	125.82	113.70
1	B	1371	G	O5'-C5'-C4'	8.07	123.61	111.50
1	B	1496	A	C2'-C3'-O3'	8.07	125.81	113.70
1	B	2405	G	O5'-C5'-C4'	8.07	123.61	111.50
1	B	2777	G	O3'-P-O5'	-8.07	91.89	104.00
1	B	2808	G	O3'-P-O5'	-8.07	91.89	104.00
1	B	465	G	O3'-P-O5'	-8.07	91.90	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	586	A	O3'-P-O5'	8.07	116.10	104.00
1	B	1326	U	P-O3'-C3'	8.07	132.30	120.20
1	B	2424	C	C4'-C3'-O3'	8.07	125.10	113.00
1	B	2887	A	C5'-C4'-O4'	8.07	121.90	109.80
1	B	456	C	C5'-C4'-C3'	8.06	128.09	116.00
1	B	2126	A	C2'-C3'-O3'	8.06	125.79	113.70
1	B	2326	C	C2'-C3'-O3'	8.06	125.79	113.70
1	B	2423	U	C5'-C4'-C3'	8.06	128.09	116.00
1	B	2890	G	O3'-P-O5'	-8.06	91.91	104.00
1	B	369	U	O3'-P-O5'	8.06	116.09	104.00
1	B	886	A	O3'-P-O5'	-8.06	91.91	104.00
1	B	1691	C	C5'-C4'-O4'	8.06	121.88	109.80
1	B	751	A	O3'-P-O5'	-8.05	91.92	104.00
1	B	2020	A	O5'-C5'-C4'	8.05	123.78	111.70
1	B	2051	A	C5'-C4'-C3'	8.05	128.08	116.00
1	B	1937	A	C2'-C3'-O3'	8.05	125.78	113.70
1	B	505	A	C5'-C4'-C3'	8.05	128.07	116.00
1	B	738	G	O3'-P-O5'	-8.04	91.94	104.00
1	B	2134	A	C5'-C4'-O4'	8.04	121.86	109.80
1	B	1740	G	C5'-C4'-O4'	-8.04	97.74	109.80
1	B	2431	U	P-O5'-C5'	8.04	132.96	120.90
1	B	1713	A	C2'-C3'-O3'	8.04	125.76	113.70
1	B	2382	G	OP1-P-O3'	8.04	132.11	108.00
1	B	190	A	C5'-C4'-C3'	8.03	128.05	116.00
1	B	2114	A	P-O3'-C3'	-8.03	108.15	120.20
1	B	643	A	C4'-C3'-O3'	8.03	125.04	113.00
1	B	1126	A	C4'-C3'-O3'	8.03	125.04	113.00
1	B	2394	C	OP2-P-O3'	-8.03	83.91	108.00
1	B	497	A	P-O3'-C3'	8.02	132.24	120.20
1	B	1301	A	C5'-C4'-C3'	8.02	128.02	116.00
1	B	1616	A	C5'-C4'-C3'	8.02	128.02	116.00
1	B	918	A	C4'-C3'-O3'	-8.01	100.98	113.00
1	B	2617	U	OP1-P-O3'	8.01	132.04	108.00
1	B	1930	G	P-O5'-C5'	8.01	132.92	120.90
1	B	654	A	C4'-C3'-O3'	8.01	125.01	113.00
1	B	1254	A	C5'-C4'-C3'	8.01	128.01	116.00
1	B	554	U	P-O3'-C3'	-8.01	108.19	120.20
1	B	138	U	P-O3'-C3'	-8.00	108.20	120.20
1	B	1453	A	C5'-C4'-C3'	8.00	128.00	116.00
1	B	528	A	P-O3'-C3'	-8.00	108.20	120.20
1	B	654	A	O5'-C5'-C4'	8.00	123.50	111.50
1	B	943	A	O3'-P-O5'	-8.00	92.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2542	A	P-O3'-C3'	-8.00	108.20	120.20
1	B	1019	U	O3'-P-O5'	8.00	115.99	104.00
1	B	943	A	P-O5'-C5'	7.99	132.89	120.90
1	B	1373	A	O3'-P-O5'	-7.99	92.01	104.00
1	B	2564	A	O3'-P-O5'	-7.99	92.02	104.00
1	B	918	A	P-O3'-C3'	7.99	132.18	120.20
1	B	1869	G	O3'-P-O5'	7.99	115.98	104.00
1	B	1360	G	C5'-C4'-C3'	7.99	127.98	116.00
1	B	2214	C	P-O5'-C5'	7.99	132.88	120.90
1	B	630	G	O3'-P-O5'	-7.99	92.02	104.00
1	B	2004	G	O3'-P-O5'	-7.99	92.02	104.00
1	B	368	A	P-O5'-C5'	7.98	132.87	120.90
1	B	1962	C	P-O3'-C3'	7.98	132.16	120.20
1	B	1078	U	C1'-C2'-O2'	7.97	120.36	108.40
1	B	1537	G	O3'-P-O5'	-7.97	92.04	104.00
1	B	2132	U	C2'-C3'-O3'	7.97	125.66	113.70
1	B	2835	A	C5'-C4'-C3'	7.97	127.95	116.00
1	B	1379	U	P-O3'-C3'	-7.97	108.25	120.20
1	B	2703	C	O5'-C5'-C4'	7.97	123.45	111.50
1	B	926	G	P-O3'-C3'	-7.96	108.25	120.20
1	B	1841	U	OP2-P-O3'	7.96	131.89	108.00
1	B	1931	U	O5'-C5'-C4'	-7.96	99.76	111.70
1	B	2474	U	C2'-C3'-O3'	7.96	125.64	113.70
1	B	1132	U	C4'-C3'-O3'	7.96	124.94	113.00
1	B	972	A	C5'-C4'-C3'	7.96	127.93	116.00
1	B	411	G	C2'-C3'-O3'	7.96	125.63	113.70
1	B	300	A	O5'-C5'-C4'	7.95	123.43	111.50
1	B	2136	G	O5'-P-OP2	-7.95	84.14	108.00
1	B	62	U	O3'-P-O5'	-7.95	92.07	104.00
1	B	1784	A	C5'-C4'-O4'	7.95	121.72	109.80
1	B	2197	U	O3'-P-O5'	-7.95	92.08	104.00
1	B	2041	U	C2'-C3'-O3'	-7.95	101.78	113.70
1	B	1617	C	P-O5'-C5'	7.94	132.81	120.90
1	B	1690	A	C4'-C3'-O3'	7.94	124.91	113.00
1	B	1699	G	C5'-C4'-O4'	7.94	121.71	109.80
1	B	1858	A	P-O5'-C5'	7.94	132.81	120.90
1	B	2086	U	OP2-P-O3'	-7.94	84.17	108.00
1	B	2274	A	C2'-C3'-O3'	7.94	125.61	113.70
1	B	2158	A	P-O3'-C3'	7.94	132.11	120.20
1	B	1977	A	C5'-C4'-C3'	7.94	127.91	116.00
1	B	1614	A	C2'-C3'-O3'	7.94	125.61	113.70
1	B	1723	G	C5'-C4'-O4'	7.94	121.71	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2131	U	C5'-C4'-C3'	7.94	127.91	116.00
1	B	1613	G	P-O3'-C3'	7.93	132.10	120.20
1	B	983	A	O3'-P-O5'	-7.93	92.10	104.00
1	B	2457	U	OP2-P-O3'	-7.93	84.20	108.00
1	B	2076	U	O5'-C5'-C4'	7.93	123.40	111.50
1	B	1674	G	C2'-C3'-O3'	7.93	125.59	113.70
1	B	127	A	P-O5'-C5'	7.93	132.79	120.90
1	B	2639	A	C4'-C3'-O3'	7.93	124.89	113.00
1	B	620	G	O5'-C5'-C4'	7.92	123.39	111.50
1	B	202	U	O5'-C5'-C4'	7.92	123.38	111.50
1	B	2748	A	C2'-C3'-O3'	7.92	125.58	113.70
1	B	916	G	O3'-P-O5'	-7.92	92.12	104.00
1	B	1632	A	C4'-C3'-O3'	-7.92	101.13	113.00
1	B	2377	A	P-O5'-C5'	7.92	132.77	120.90
1	B	488	G	P-O5'-C5'	-7.91	109.03	120.90
1	B	1890	A	C5'-C4'-C3'	7.91	127.87	116.00
1	B	790	U	O3'-P-O5'	-7.91	92.13	104.00
1	B	1250	G	C5'-C4'-C3'	7.91	127.86	116.00
1	B	36	G	OP1-P-O3'	-7.91	84.27	108.00
1	B	676	A	C5'-C4'-C3'	7.91	127.86	116.00
1	B	180	G	C5'-C4'-C3'	7.91	127.86	116.00
1	B	435	C	C5'-C4'-C3'	7.91	127.86	116.00
1	B	480	A	C4'-C3'-O3'	7.91	124.86	113.00
1	B	1690	A	P-O3'-C3'	-7.90	108.34	120.20
1	B	2130	U	C2'-C3'-O3'	7.90	125.55	113.70
1	B	2170	A	O3'-P-O5'	-7.90	92.15	104.00
1	B	453	A	O3'-P-O5'	-7.90	92.15	104.00
1	B	1891	G	C2'-C3'-O3'	-7.90	101.85	113.70
1	B	2886	A	C5'-C4'-C3'	7.90	127.85	116.00
1	B	762	U	O5'-C5'-C4'	7.90	123.35	111.50
1	B	1912	A	O3'-P-O5'	-7.90	92.15	104.00
1	B	1641	A	C5'-C4'-C3'	7.90	127.84	116.00
1	B	1580	A	C5'-C4'-C3'	7.89	127.83	116.00
1	B	1632	A	P-O3'-C3'	7.89	132.03	120.20
1	B	1761	C	C5'-C4'-C3'	7.89	127.83	116.00
1	B	1837	C	P-O3'-C3'	7.89	132.03	120.20
1	B	2185	U	C2'-C3'-O3'	7.89	125.53	113.70
1	B	1460	U	C4'-C3'-O3'	7.89	124.83	113.00
1	B	2076	U	C5'-C4'-C3'	7.88	127.83	116.00
1	B	1681	G	OP2-P-O3'	-7.88	84.35	108.00
1	B	2719	G	C5'-C4'-C3'	7.88	127.82	116.00
1	B	1061	U	N1-C1'-C2'	-7.88	102.18	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1427	A	O3'-P-O5'	7.87	115.81	104.00
1	B	2432	A	C4'-C3'-O3'	7.87	124.81	113.00
1	B	82	U	O3'-P-O5'	-7.87	92.19	104.00
1	B	2252	G	C5'-C4'-O4'	7.87	121.61	109.80
1	B	545	U	O3'-P-O5'	-7.87	92.20	104.00
1	B	2503	A	C4'-C3'-O3'	-7.87	101.20	113.00
1	B	2085	U	P-O3'-C3'	7.87	132.00	120.20
1	B	2683	C	C5'-C4'-O4'	-7.87	98.00	109.80
1	B	2713	U	C5'-C4'-C3'	7.86	127.80	116.00
1	B	455	C	O3'-P-O5'	-7.86	92.21	104.00
1	B	782	A	C2'-C3'-O3'	7.86	125.49	113.70
1	B	1132	U	C5'-C4'-C3'	7.86	127.79	116.00
1	B	243	U	C2'-C3'-O3'	7.85	125.48	113.70
1	B	1607	C	C5'-C4'-O4'	7.85	121.57	109.80
1	B	2364	C	P-O3'-C3'	7.85	131.97	120.20
1	B	49	A	O3'-P-O5'	-7.85	92.23	104.00
1	B	1937	A	C4'-C3'-O3'	7.85	124.77	113.00
1	B	460	A	C5'-C4'-O4'	-7.84	98.04	109.80
1	B	113	U	O5'-P-OP1	-7.84	84.48	108.00
1	B	244	A	C4'-C3'-O3'	7.84	124.76	113.00
1	B	471	A	C5'-C4'-C3'	7.84	127.76	116.00
1	B	1567	G	O3'-P-O5'	7.84	115.76	104.00
1	B	113	U	C2'-C3'-O3'	-7.84	101.94	113.70
1	B	1129	A	O3'-P-O5'	-7.84	92.25	104.00
1	B	1372	U	C5'-C4'-C3'	7.84	127.75	116.00
1	B	1109	C	O3'-P-O5'	-7.83	92.25	104.00
1	B	1154	G	C5'-C4'-C3'	7.83	127.75	116.00
1	B	2111	U	P-O5'-C5'	7.83	132.65	120.90
1	B	2283	C	C5'-C4'-C3'	7.83	127.74	116.00
1	B	382	A	O3'-P-O5'	-7.83	92.26	104.00
1	B	1189	A	C5'-C4'-O4'	7.83	121.54	109.80
1	B	1275	A	C5'-C4'-O4'	7.83	121.54	109.80
1	B	2378	A	P-O5'-C5'	-7.83	109.16	120.90
1	B	2757	A	O3'-P-O5'	-7.82	92.27	104.00
1	B	506	G	O3'-P-O5'	-7.82	92.27	104.00
1	B	264	C	OP1-P-O3'	7.82	131.44	108.00
1	B	1615	C	O3'-P-O5'	-7.81	92.28	104.00
1	B	1848	A	C5'-C4'-C3'	7.81	126.92	115.20
1	B	27	G	C5'-C4'-O4'	-7.81	98.08	109.80
1	B	2298	A	O5'-C5'-C4'	7.81	123.22	111.50
1	B	2626	C	C2'-C3'-O3'	7.81	121.21	109.50
1	B	2687	U	C5'-C4'-O4'	7.81	121.52	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1681	G	P-O3'-C3'	-7.81	108.49	120.20
1	B	528	A	C2'-C3'-O3'	7.80	125.41	113.70
1	B	1584	U	C4'-C3'-O3'	7.80	124.71	113.00
1	B	70	G	P-O3'-C3'	-7.80	108.50	120.20
1	B	2720	U	C5'-C4'-C3'	7.80	127.70	116.00
1	B	864	G	P-O5'-C5'	7.80	132.60	120.90
1	B	1214	A	O3'-P-O5'	-7.80	92.30	104.00
1	B	1366	A	O3'-P-O5'	-7.80	92.31	104.00
1	B	1653	G	O3'-P-O5'	-7.80	92.31	104.00
1	B	2529	G	C5'-C4'-O4'	7.79	121.49	109.80
1	B	329	G	O3'-P-O5'	-7.79	92.31	104.00
1	B	1585	C	P-O3'-C3'	-7.79	108.51	120.20
1	B	1494	A	O3'-P-O5'	-7.79	92.31	104.00
1	B	2157	G	C5'-C4'-C3'	7.79	127.69	116.00
1	B	779	U	C5'-C4'-C3'	7.79	127.68	116.00
1	B	724	U	O3'-P-O5'	-7.79	92.32	104.00
1	B	181	A	O5'-C5'-C4'	7.78	123.17	111.50
1	B	2713	U	C2'-C3'-O3'	7.78	125.37	113.70
1	B	2113	U	O3'-P-O5'	7.78	115.67	104.00
1	B	470	A	C2'-C3'-O3'	7.78	125.36	113.70
1	B	806	C	C5'-C4'-C3'	7.78	127.67	116.00
1	B	1050	A	O3'-P-O5'	7.78	115.67	104.00
1	B	620	G	C2'-C3'-O3'	7.77	125.36	113.70
1	B	1032	A	C5'-C4'-C3'	7.77	127.66	116.00
1	B	1911	PSU	P-O3'-C3'	-7.77	108.55	120.20
1	B	2172	U	C4'-C3'-O3'	7.77	124.65	113.00
1	B	1760	C	C5'-C4'-C3'	7.77	127.65	116.00
1	B	373	U	C5'-C4'-C3'	7.76	127.65	116.00
1	B	618	G	O3'-P-O5'	-7.76	92.35	104.00
1	B	2203	U	C5'-C4'-C3'	7.76	127.64	116.00
1	B	226	A	O3'-P-O5'	-7.76	92.36	104.00
1	B	1012	U	O5'-C5'-C4'	7.76	123.14	111.50
1	B	1445	G	OP2-P-O3'	7.76	131.28	108.00
1	B	1814	G	O3'-P-O5'	-7.76	92.36	104.00
1	B	2596	U	O3'-P-O5'	-7.76	92.36	104.00
1	B	2871	U	C5'-C4'-C3'	7.75	127.63	116.00
1	B	100	U	C5'-C4'-C3'	7.75	127.63	116.00
1	B	1394	U	C5'-C4'-C3'	7.75	127.63	116.00
1	B	1433	A	O3'-P-O5'	-7.75	92.37	104.00
1	B	2824	C	O3'-P-O5'	-7.75	92.38	104.00
1	B	2253	G	C2'-C3'-O3'	7.75	125.32	113.70
1	B	1572	A	O5'-C5'-C4'	7.75	123.12	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2199	A	C2'-C3'-O3'	7.75	125.32	113.70
1	B	2411	A	C5'-C4'-C3'	7.74	127.62	116.00
1	B	725	G	C5'-C4'-O4'	7.74	121.41	109.80
1	B	2582	G	P-O3'-C3'	7.74	131.81	120.20
1	B	2406	A	O5'-C5'-C4'	7.74	123.11	111.50
1	B	12	U	O5'-C5'-C4'	7.74	123.11	111.50
1	B	388	G	C2'-C3'-O3'	7.74	125.31	113.70
1	B	2468	A	C4'-C3'-O3'	7.73	124.60	113.00
1	B	479	A	C5'-C4'-C3'	7.73	127.60	116.00
1	B	1128	G	C5'-C4'-C3'	7.73	127.60	116.00
1	B	308	G	O3'-P-O5'	-7.73	92.41	104.00
1	B	1242	U	C5'-C4'-O4'	-7.73	98.20	109.80
1	B	1122	G	C5'-C4'-C3'	7.73	127.59	116.00
1	B	1871	A	O3'-P-O5'	-7.73	92.41	104.00
1	B	1647	U	C5'-C4'-O4'	7.72	121.39	109.80
1	B	1236	G	C4'-C3'-O3'	7.72	124.58	113.00
1	B	1008	A	C2'-C3'-O3'	7.72	125.28	113.70
1	B	1010	A	C5'-C4'-O4'	7.72	121.38	109.80
1	B	1770	G	O3'-P-O5'	7.72	115.57	104.00
1	B	361	G	C5'-C4'-C3'	7.71	127.57	116.00
1	B	2068	U	C5'-C4'-C3'	7.71	127.57	116.00
1	B	47	C	C5'-C4'-O4'	7.71	121.36	109.80
1	B	97	C	P-O3'-C3'	-7.71	108.64	120.20
1	B	501	A	O3'-P-O5'	7.71	115.56	104.00
1	B	2267	A	O3'-P-O5'	-7.71	92.44	104.00
1	B	2356	U	O3'-P-O5'	-7.71	92.44	104.00
1	B	2591	C	P-O3'-C3'	7.71	131.76	120.20
1	B	1418	G	C5'-C4'-C3'	7.70	127.56	116.00
1	B	2305	U	P-O5'-C5'	7.70	132.46	120.90
1	B	2879	A	O3'-P-O5'	7.70	115.55	104.00
1	B	1952	A	O3'-P-O5'	-7.70	92.45	104.00
1	B	2754	U	C4'-C3'-O3'	7.70	124.55	113.00
1	B	181	A	C5'-C4'-O4'	7.69	121.34	109.80
1	B	451	U	C5'-C4'-C3'	7.69	127.54	116.00
1	B	633	A	C2'-C3'-O3'	7.69	125.24	113.70
1	B	1673	G	O3'-P-O5'	-7.69	92.46	104.00
1	B	2394	C	C4'-C3'-O3'	-7.69	101.46	113.00
1	B	979	A	C5'-C4'-C3'	7.69	127.53	116.00
1	B	460	A	OP2-P-O3'	7.69	131.06	108.00
1	B	276	U	C4'-C3'-O3'	7.68	124.53	113.00
1	B	465	G	O5'-C5'-C4'	7.68	123.03	111.50
1	B	2789	C	C5'-C4'-O4'	7.68	121.33	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	443	A	C5'-C4'-O4'	7.68	121.32	109.80
1	B	1284	A	C5'-C4'-C3'	7.68	127.52	116.00
1	B	84	A	C4'-C3'-O3'	7.68	124.52	113.00
1	B	1327	A	C5'-C4'-C3'	7.68	127.52	116.00
1	B	1838	C	O3'-P-O5'	-7.68	92.48	104.00
1	B	2873	A	O3'-P-O5'	-7.68	92.48	104.00
1	B	1801	A	P-O5'-C5'	7.68	132.41	120.90
1	B	460	A	OP1-P-O3'	-7.67	84.97	108.00
1	B	1604	C	C5'-C4'-C3'	7.67	127.51	116.00
1	B	384	A	P-O5'-C5'	7.67	132.40	120.90
1	B	2448	A	C2'-C3'-O3'	-7.67	102.20	113.70
1	B	809	G	O3'-P-O5'	-7.67	92.50	104.00
1	B	942	G	C2'-C3'-O3'	7.66	125.20	113.70
1	B	1652	A	P-O5'-C5'	7.66	132.40	120.90
1	B	2499	C	O3'-P-O5'	-7.66	92.50	104.00
1	B	1255	U	O3'-P-O5'	7.66	115.49	104.00
1	B	1718	G	O3'-P-O5'	-7.66	92.51	104.00
1	B	1127	A	P-O3'-C3'	-7.65	108.72	120.20
1	B	219	A	C4'-C3'-O3'	7.65	124.47	113.00
1	B	1271	G	P-O5'-C5'	7.65	132.37	120.90
1	B	1569	A	C4'-C3'-O3'	7.65	124.47	113.00
1	B	479	A	C4'-C3'-O3'	7.65	124.47	113.00
1	B	788	A	C5'-C4'-C3'	7.64	127.47	116.00
1	B	509	C	C4'-C3'-O3'	7.64	124.46	113.00
1	B	646	U	P-O3'-C3'	-7.64	108.74	120.20
1	B	1283	G	O3'-P-O5'	7.64	115.46	104.00
1	B	1428	C	C2'-C3'-O3'	-7.64	102.24	113.70
1	B	2687	U	C2'-C3'-O3'	7.64	125.16	113.70
1	B	1069	A	C3'-C2'-C1'	-7.64	93.86	101.50
1	B	2534	A	O3'-P-O5'	-7.64	92.55	104.00
1	B	1023	U	C5'-C4'-C3'	7.63	127.45	116.00
1	B	202	U	C4'-C3'-O3'	-7.63	101.55	113.00
1	B	578	G	O3'-P-O5'	-7.63	92.56	104.00
1	B	2555	U	C4'-C3'-O3'	7.63	120.84	109.40
1	B	390	U	P-O5'-C5'	7.62	132.33	120.90
1	B	1759	A	O3'-P-O5'	-7.62	92.57	104.00
1	B	2778	A	C4'-C3'-O3'	7.62	124.43	113.00
1	B	2265	U	C4'-C3'-O3'	7.62	124.43	113.00
1	B	2775	G	C5'-C4'-C3'	7.62	127.42	116.00
1	B	1942	C	C2'-C3'-O3'	-7.61	102.28	113.70
1	B	388	G	C4'-C3'-O3'	7.61	124.42	113.00
1	B	1686	C	P-O3'-C3'	7.61	131.62	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1150	C	P-O3'-C3'	7.61	131.61	120.20
1	B	160	A	O3'-P-O5'	-7.61	92.59	104.00
1	B	412	A	O5'-C5'-C4'	7.61	122.91	111.50
1	B	1055	G	C3'-C2'-C1'	-7.61	93.69	101.30
1	B	781	A	C5'-C4'-O4'	7.61	121.21	109.80
1	B	1172	C	P-O3'-C3'	-7.61	108.79	120.20
1	B	1758	U	O3'-P-O5'	-7.60	92.60	104.00
1	B	2598	A	C5'-C4'-C3'	7.60	127.41	116.00
1	B	26	G	C2'-C3'-O3'	-7.60	102.30	113.70
1	B	372	G	C5'-C4'-O4'	7.60	121.20	109.80
1	B	1929	G	C5'-C4'-C3'	7.60	127.40	116.00
1	B	2305	U	C5'-C4'-O4'	7.60	121.20	109.80
1	B	1677	A	C4'-C3'-O3'	7.59	124.39	113.00
1	B	1808	A	P-O5'-C5'	7.59	132.29	120.90
1	B	340	A	O3'-P-O5'	-7.59	92.61	104.00
1	B	2475	C	P-O5'-C5'	7.59	132.29	120.90
1	B	1676	A	O5'-C5'-C4'	7.59	122.89	111.50
1	B	1925	C	O5'-C5'-C4'	7.59	123.08	111.70
1	B	2505	G	O5'-C5'-C4'	7.59	122.88	111.50
1	B	1102	C	C4'-C3'-C2'	-7.59	95.01	102.60
1	B	2018	G	C5'-C4'-C3'	7.59	127.38	116.00
1	B	72	U	C5'-C4'-O4'	7.58	121.17	109.80
1	B	126	A	P-O3'-C3'	7.58	131.58	120.20
1	B	1427	A	C5'-C4'-O4'	-7.58	98.42	109.80
1	B	1915	5MU	P-O3'-C3'	-7.58	108.82	120.20
1	B	1673	G	C5'-C4'-C3'	7.58	127.37	116.00
1	B	1033	U	C5'-C4'-C3'	7.58	127.36	116.00
1	B	1546	G	C5'-C4'-O4'	-7.58	98.44	109.80
1	B	463	G	P-O3'-C3'	-7.57	108.84	120.20
1	B	2422	C	C4'-C3'-O3'	7.57	124.36	113.00
1	B	914	G	C2'-C3'-O3'	-7.57	102.35	113.70
1	B	1647	U	O5'-C5'-C4'	7.57	122.85	111.50
1	B	779	U	O3'-P-O5'	-7.56	92.66	104.00
1	B	845	A	C2'-C3'-O3'	-7.56	102.36	113.70
1	B	1044	C	C4'-C3'-O3'	7.56	124.34	113.00
1	B	1508	A	P-O3'-C3'	7.56	131.54	120.20
1	B	1326	U	C4'-C3'-O3'	7.56	124.34	113.00
1	B	1384	A	C4'-C3'-O3'	7.55	124.33	113.00
1	B	2884	U	C2'-C3'-O3'	7.55	125.03	113.70
1	B	995	C	C2'-C3'-O3'	7.55	125.03	113.70
1	B	1132	U	C5'-C4'-O4'	7.55	121.13	109.80
1	B	446	G	O5'-C5'-C4'	7.55	122.83	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	999	U	P-O3'-C3'	7.55	131.53	120.20
1	B	1311	G	O3'-P-O5'	7.55	115.32	104.00
1	B	99	U	C5'-C4'-O4'	-7.54	98.49	109.80
1	B	126	A	C5'-C4'-O4'	7.54	121.11	109.80
1	B	1312	U	O5'-C5'-C4'	7.54	122.81	111.50
1	B	1828	G	C4'-C3'-O3'	7.54	124.31	113.00
1	B	140	C	P-O5'-C5'	7.54	132.21	120.90
1	B	222	A	C4'-C3'-O3'	-7.54	101.69	113.00
1	B	1847	A	O5'-C5'-C4'	7.54	122.81	111.50
1	B	2869	G	C2'-C3'-O3'	7.54	125.01	113.70
1	B	72	U	C5'-C4'-C3'	7.54	127.30	116.00
1	B	1951	U	O5'-P-OP1	7.54	130.61	108.00
1	B	330	A	C5'-C4'-O4'	7.53	121.10	109.80
1	B	761	A	O5'-C5'-C4'	7.53	122.80	111.50
1	B	1444	G	P-O3'-C3'	7.53	131.50	120.20
1	B	2542	A	C4'-C3'-O3'	7.53	124.29	113.00
1	B	764	A	O3'-P-O5'	7.53	115.29	104.00
1	B	1140	C	O3'-P-O5'	-7.52	92.71	104.00
1	B	1607	C	O5'-C5'-C4'	7.52	122.78	111.50
1	B	2529	G	O3'-P-O5'	-7.52	92.72	104.00
1	B	570	G	O3'-P-O5'	7.52	115.28	104.00
1	B	1025	G	C5'-C4'-O4'	-7.52	98.52	109.80
1	B	2365	G	C5'-C4'-O4'	7.52	121.08	109.80
1	B	627	A	P-O3'-C3'	7.52	131.48	120.20
1	B	2741	A	C5'-C4'-C3'	-7.52	104.72	116.00
1	B	370	G	O5'-C5'-C4'	7.52	122.77	111.50
1	B	2042	A	P-O3'-C3'	7.52	131.47	120.20
1	B	1064	C	C4'-C3'-C2'	-7.51	95.09	102.60
1	B	1791	A	C4'-C3'-O3'	7.51	124.27	113.00
1	B	243	U	C4'-C3'-O3'	7.51	124.26	113.00
1	B	2018	G	O3'-P-O5'	-7.51	92.74	104.00
1	B	1327	A	O5'-P-OP1	-7.50	85.48	108.00
1	B	400	G	C5'-C4'-C3'	7.50	127.25	116.00
1	B	573	U	C2'-C3'-O3'	7.50	124.95	113.70
1	B	1928	A	C2'-C3'-O3'	7.50	124.95	113.70
1	B	2564	A	C4'-C3'-O3'	7.50	124.26	113.00
1	B	1383	A	P-O5'-C5'	7.50	132.15	120.90
1	B	673	C	C4'-C3'-O3'	7.50	124.25	113.00
1	B	956	G	C4'-C3'-O3'	7.50	124.25	113.00
1	B	2575	C	C2'-C3'-O3'	-7.50	102.45	113.70
1	B	2030	1MA	O3'-P-O5'	-7.50	92.75	104.00
1	B	1597	A	O3'-P-O5'	-7.49	92.76	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2607	G	C5'-C4'-C3'	7.49	127.24	116.00
1	B	220	G	C2'-C3'-O3'	7.49	124.93	113.70
1	B	974	G	C2'-C3'-O3'	7.49	124.93	113.70
1	B	1081	U	C1'-C2'-O2'	7.48	119.62	108.40
1	B	9	G	O5'-C5'-C4'	7.48	122.72	111.50
1	B	2454	G	P-O3'-C3'	7.48	131.42	120.20
1	B	706	A	C5'-C4'-O4'	-7.48	98.58	109.80
1	B	1061	U	C1'-C2'-O2'	7.47	123.01	111.80
1	B	644	A	C5'-C4'-O4'	7.47	121.01	109.80
1	B	673	C	O3'-P-O5'	7.47	115.21	104.00
1	B	2450	A	O5'-P-OP2	-7.47	85.58	108.00
1	B	1841	U	P-O3'-C3'	7.47	131.41	120.20
1	B	637	A	C5'-C4'-O4'	-7.47	98.60	109.80
1	B	119	A	C5'-C4'-C3'	-7.47	104.80	116.00
1	B	405	U	C5'-C4'-C3'	7.47	127.20	116.00
1	B	764	A	O5'-C5'-C4'	7.47	122.70	111.50
1	B	1614	A	C5'-C4'-O4'	7.47	121.00	109.80
1	B	2326	C	P-O3'-C3'	-7.46	109.00	120.20
1	B	165	A	O3'-P-O5'	-7.46	92.81	104.00
1	B	802	A	C5'-C4'-O4'	-7.46	97.91	109.10
1	B	2168	G	O5'-C5'-C4'	7.46	122.69	111.50
1	B	836	G	C5'-C4'-O4'	7.46	120.98	109.80
1	B	2821	A	C5'-C4'-C3'	7.46	127.18	116.00
1	B	84	A	C2'-C3'-O3'	-7.45	102.52	113.70
1	B	346	A	C4'-C3'-O3'	7.45	124.18	113.00
1	B	827	U	C5'-C4'-O4'	7.45	120.98	109.80
1	B	1953	A	C5'-C4'-O4'	7.45	120.98	109.80
1	B	803	U	C5'-C4'-C3'	7.45	127.18	116.00
1	B	2173	A	O3'-P-O5'	-7.45	92.83	104.00
1	B	819	A	C2'-C3'-O3'	7.45	124.87	113.70
1	B	1081	U	C4'-C3'-C2'	7.45	110.05	102.60
1	B	1876	A	C4'-C3'-O3'	7.45	124.17	113.00
1	B	2755	C	C2'-C3'-O3'	7.45	124.87	113.70
1	B	912	C	C4'-C3'-O3'	-7.45	101.83	113.00
1	B	811	U	P-O3'-C3'	7.44	131.37	120.20
1	B	84	A	P-O3'-C3'	7.44	131.36	120.20
1	B	1365	A	C4'-C3'-O3'	7.44	124.16	113.00
1	B	2360	G	C5'-C4'-C3'	7.44	127.15	116.00
1	B	1089	A	N9-C1'-C2'	-7.43	102.85	114.00
1	B	2869	G	O5'-C5'-C4'	7.43	122.65	111.50
1	B	602	A	C2'-C3'-O3'	-7.43	102.55	113.70
1	B	2223	G	O3'-P-O5'	-7.43	92.85	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2645	G	C5'-C4'-O4'	-7.43	98.65	109.80
1	B	1082	U	C1'-C2'-O2'	7.43	119.54	108.40
1	B	2180	U	C4'-C3'-O3'	7.43	124.15	113.00
1	B	2704	C	C5'-C4'-C3'	7.43	127.14	116.00
1	B	578	G	C5'-C4'-C3'	7.42	127.14	116.00
1	B	1187	G	O3'-P-O5'	-7.42	92.87	104.00
1	B	2146	C	O3'-P-O5'	-7.42	92.87	104.00
1	B	2780	G	P-O3'-C3'	7.42	131.33	120.20
1	B	1817	G	C2'-C3'-O3'	7.42	124.82	113.70
1	B	1848	A	C5'-C4'-O4'	-7.42	97.98	109.10
1	B	33	C	C5'-C4'-O4'	7.41	120.92	109.80
1	B	1094	U	C1'-C2'-O2'	7.41	119.52	108.40
1	B	2356	U	C5'-C4'-C3'	7.41	127.12	116.00
1	B	959	A	P-O3'-C3'	-7.41	109.08	120.20
1	B	1283	G	P-O5'-C5'	-7.41	109.78	120.90
1	B	2269	G	O3'-P-O5'	-7.41	92.88	104.00
1	B	1875	G	O5'-C5'-C4'	7.41	122.61	111.50
1	B	500	G	C5'-C4'-O4'	7.41	120.91	109.80
1	B	1438	U	C5'-C4'-O4'	7.41	120.91	109.80
1	B	1955	U	P-O3'-C3'	7.41	131.31	120.20
1	B	975	A	C2'-C3'-O3'	7.40	124.81	113.70
1	B	820	A	C2'-C3'-O3'	7.40	124.80	113.70
1	B	803	U	P-O3'-C3'	7.40	131.30	120.20
1	B	2502	G	C2'-C3'-O3'	7.40	124.80	113.70
1	B	1379	U	O3'-P-O5'	-7.40	92.91	104.00
1	B	1571	A	C5'-C4'-C3'	7.40	127.10	116.00
1	B	2450	A	C5'-C4'-O4'	-7.40	98.70	109.80
1	B	462	C	O3'-P-O5'	-7.39	92.91	104.00
1	B	1940	U	C5'-C4'-O4'	7.39	120.89	109.80
1	B	119	A	OP2-P-O3'	-7.39	85.83	108.00
1	B	627	A	O5'-C5'-C4'	7.39	122.59	111.50
1	B	2275	C	P-O3'-C3'	-7.39	109.11	120.20
1	B	255	A	C5'-C4'-C3'	7.39	127.08	116.00
1	B	2848	G	C5'-C4'-C3'	7.39	127.08	116.00
1	B	457	A	C5'-C4'-C3'	7.38	127.08	116.00
1	B	1089	A	C3'-C2'-C1'	-7.38	94.12	101.50
1	B	2422	C	O5'-C5'-C4'	7.38	122.58	111.50
1	B	945	A	O3'-P-O5'	-7.38	92.93	104.00
1	B	1641	A	C5'-C4'-O4'	7.38	120.87	109.80
1	B	748	G	O3'-P-O5'	-7.38	92.93	104.00
1	B	2614	A	C5'-C4'-C3'	7.38	127.07	116.00
1	B	1235	G	O5'-C5'-C4'	7.38	122.57	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1858	A	C5'-C4'-O4'	7.38	120.86	109.80
1	B	2017	U	O3'-P-O5'	-7.38	92.94	104.00
1	B	942	G	C5'-C4'-C3'	7.37	127.06	116.00
1	B	257	C	O5'-C5'-C4'	7.37	122.55	111.50
1	B	496	G	P-O3'-C3'	7.37	131.25	120.20
1	B	2135	A	OP2-P-O3'	7.37	130.09	108.00
1	B	299	A	C2'-C3'-O3'	-7.36	102.66	113.70
1	B	566	U	C5'-C4'-C3'	7.36	127.05	116.00
1	B	2212	A	O3'-P-O5'	-7.36	92.96	104.00
1	B	431	U	O5'-C5'-C4'	7.36	122.54	111.50
1	B	320	A	C2'-C3'-O3'	-7.36	102.66	113.70
1	B	2726	A	C4'-C3'-O3'	7.36	124.04	113.00
1	B	227	A	C4'-C3'-O3'	7.36	124.03	113.00
1	B	1000	A	O3'-P-O5'	-7.36	92.96	104.00
1	B	514	A	OP2-P-O3'	-7.36	85.93	108.00
1	B	956	G	O3'-P-O5'	-7.36	92.97	104.00
1	B	1129	A	C2'-C3'-O3'	7.36	124.73	113.70
1	B	1134	A	P-O3'-C3'	7.36	131.23	120.20
1	B	2607	G	C4'-C3'-O3'	7.36	124.03	113.00
1	B	2019	A	C5'-C4'-C3'	7.35	127.03	116.00
1	B	2789	C	C4'-C3'-O3'	7.35	124.03	113.00
1	B	2713	U	C5'-C4'-O4'	7.35	120.83	109.80
1	B	346	A	P-O3'-C3'	-7.35	109.17	120.20
1	B	1111	A	C5'-C4'-C3'	7.35	127.02	116.00
1	B	2885	G	C2'-C3'-O3'	7.35	124.72	113.70
1	B	51	G	C4'-C3'-O3'	7.35	124.02	113.00
1	B	270	A	OP1-P-O3'	-7.34	85.98	108.00
1	B	652	U	P-O3'-C3'	7.34	131.21	120.20
1	B	945	A	C2'-C3'-O3'	7.34	124.71	113.70
1	B	979	A	P-O5'-C5'	-7.34	109.89	120.90
1	B	2498	5MC	O3'-P-O5'	-7.34	93.00	104.00
1	B	277	G	P-O5'-C5'	-7.33	109.90	120.90
1	B	1808	A	C5'-C4'-O4'	7.33	120.80	109.80
1	B	2556	C	C4'-C3'-O3'	-7.33	102.00	113.00
1	B	1271	G	O3'-P-O5'	7.33	115.00	104.00
1	B	1678	A	C2'-C3'-O3'	7.33	124.70	113.70
1	B	2061	G	C2'-C3'-O3'	-7.33	102.70	113.70
1	B	2430	A	O5'-C5'-C4'	7.33	122.50	111.50
1	B	300	A	C5'-C4'-C3'	7.33	127.00	116.00
1	B	912	C	C2'-C3'-O3'	-7.33	102.70	113.70
1	B	988	A	O3'-P-O5'	7.33	114.99	104.00
1	B	244	A	C2'-C3'-O3'	7.32	124.68	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1493	C	C5'-C4'-O4'	7.32	120.78	109.80
1	B	2325	G	O3'-P-O5'	-7.32	93.02	104.00
1	B	821	A	C5'-C4'-C3'	7.32	126.98	116.00
1	B	988	A	C2'-C3'-O3'	-7.32	102.72	113.70
1	B	1038	G	P-O3'-C3'	7.32	131.18	120.20
1	B	1565	C	C5'-C4'-O4'	7.32	120.77	109.80
1	B	1458	U	P-O3'-C3'	-7.31	109.23	120.20
1	B	1508	A	O3'-P-O5'	-7.31	93.03	104.00
1	B	149	A	C5'-C4'-C3'	7.31	126.97	116.00
1	B	1967	C	P-O5'-C5'	-7.31	109.93	120.90
1	B	1978	A	O3'-P-O5'	-7.31	93.03	104.00
1	B	1523	U	C4'-C3'-O3'	7.31	123.96	113.00
1	B	1395	A	P-O5'-C5'	7.31	131.86	120.90
1	B	2214	C	C5'-C4'-C3'	7.31	126.96	116.00
1	B	2887	A	P-O3'-C3'	-7.31	109.24	120.20
1	B	734	A	C4'-C3'-O3'	7.30	123.95	113.00
1	B	2780	G	C5'-C4'-C3'	7.30	126.95	116.00
1	B	1608	A	C4'-C3'-O3'	7.30	123.94	113.00
1	B	555	G	O3'-P-O5'	-7.29	93.06	104.00
1	B	563	A	P-O5'-C5'	7.29	131.84	120.90
1	B	2233	U	C2'-C3'-O3'	7.29	124.64	113.70
1	B	12	U	C2'-C3'-O3'	7.29	124.63	113.70
1	B	1364	G	C2'-C3'-O3'	7.29	124.63	113.70
1	B	2512	C	OP2-P-O3'	-7.29	86.15	108.00
1	B	1477	A	OP2-P-O3'	7.28	129.84	108.00
1	B	196	A	C5'-C4'-O4'	7.28	120.71	109.80
1	B	2005	A	C4'-C3'-O3'	-7.28	102.09	113.00
1	B	1816	C	C4'-C3'-O3'	-7.27	102.09	113.00
1	B	12	U	P-O5'-C5'	7.27	131.81	120.90
1	B	804	A	C5'-C4'-O4'	7.27	120.71	109.80
1	B	706	A	C2'-C3'-O3'	-7.27	102.80	113.70
1	B	2012	G	O5'-C5'-C4'	7.27	122.40	111.50
1	B	2345	G	P-O5'-C5'	7.27	131.80	120.90
1	B	298	G	O5'-C5'-C4'	7.27	122.40	111.50
1	B	1204	A	C2'-C3'-O3'	7.27	124.60	113.70
1	B	2703	C	O3'-P-O5'	-7.27	93.10	104.00
1	B	2739	U	C5'-C4'-O4'	7.26	120.70	109.80
1	B	1395	A	C5'-C4'-C3'	7.26	126.89	116.00
1	B	183	C	C5'-C4'-O4'	-7.26	98.91	109.80
1	B	1573	G	OP2-P-O3'	-7.26	86.21	108.00
1	B	244	A	OP2-P-O3'	7.26	129.78	108.00
1	B	2050	C	O3'-P-O5'	7.26	114.89	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	931	U	P-O3'-C3'	-7.26	109.31	120.20
1	B	1647	U	O3'-P-O5'	-7.26	93.11	104.00
1	B	1783	A	C5'-C4'-O4'	7.26	120.69	109.80
1	B	368	A	C5'-C4'-O4'	-7.26	98.92	109.80
1	B	801	G	C5'-C4'-O4'	7.26	120.69	109.80
1	B	446	G	O3'-P-O5'	-7.25	93.12	104.00
1	B	1445	G	C5'-C4'-C3'	7.25	126.88	116.00
1	B	676	A	C5'-C4'-O4'	7.25	120.68	109.80
1	B	956	G	C5'-C4'-C3'	7.25	126.88	116.00
1	B	1693	U	C5'-C4'-C3'	7.25	126.88	116.00
1	B	2059	A	C5'-C4'-C3'	7.25	126.88	116.00
1	B	362	A	C5'-C4'-O4'	7.25	120.67	109.80
1	B	2822	G	O5'-C5'-C4'	7.25	122.37	111.50
1	B	1954	G	O3'-P-O5'	-7.25	93.13	104.00
1	B	176	A	P-O3'-C3'	7.24	131.07	120.20
1	B	1477	A	P-O3'-C3'	-7.24	109.33	120.20
1	B	113	U	O3'-P-O5'	7.24	114.86	104.00
1	B	1186	G	C5'-C4'-C3'	7.24	126.86	116.00
1	B	225	C	O3'-P-O5'	-7.24	93.14	104.00
1	B	240	C	C5'-C4'-O4'	7.24	120.66	109.80
1	B	501	A	P-O5'-C5'	-7.24	110.04	120.90
1	B	2267	A	C4'-C3'-O3'	7.24	123.86	113.00
1	B	2789	C	O3'-P-O5'	-7.24	93.14	104.00
1	B	1274	A	O5'-C5'-C4'	7.24	122.56	111.70
1	B	2273	A	C5'-C4'-O4'	7.24	120.66	109.80
1	B	83	A	C5'-C4'-C3'	7.23	126.84	116.00
1	B	863	A	C2'-C3'-O3'	7.23	124.54	113.70
1	B	725	G	C5'-C4'-C3'	7.23	126.84	116.00
1	B	2808	G	C5'-C4'-C3'	7.23	126.84	116.00
1	B	2868	A	P-O3'-C3'	7.23	131.04	120.20
1	B	507	A	C2'-C3'-O3'	7.22	124.54	113.70
1	B	1514	G	C2'-C3'-O3'	7.22	124.53	113.70
1	B	1834	U	C5'-C4'-O4'	7.22	120.63	109.80
1	B	2847	U	O3'-P-O5'	-7.22	93.17	104.00
1	B	400	G	C4'-C3'-O3'	7.22	123.83	113.00
1	B	1671	U	C4'-C3'-O3'	7.22	123.83	113.00
1	B	2199	A	P-O3'-C3'	7.21	131.01	120.20
1	B	819	A	P-O5'-C5'	7.21	131.71	120.90
1	B	1774	C	C4'-C3'-O3'	7.21	123.81	113.00
1	B	2564	A	C5'-C4'-O4'	7.21	120.61	109.80
1	B	72	U	P-O3'-C3'	7.20	131.00	120.20
1	B	226	A	P-O3'-C3'	-7.20	109.39	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	545	U	C5'-C4'-O4'	7.20	120.61	109.80
1	B	453	A	C4'-C3'-O3'	7.20	123.80	113.00
1	B	391	A	P-O5'-C5'	7.20	131.69	120.90
1	B	1762	A	C4'-C3'-O3'	7.20	123.79	113.00
1	B	2388	A	C5'-C4'-C3'	7.20	126.79	116.00
1	B	739	A	C2'-C3'-O3'	7.19	124.49	113.70
1	B	1980	G	O3'-P-O5'	-7.19	93.22	104.00
1	B	2554	U	C4'-C3'-O3'	-7.19	102.22	113.00
1	B	2858	C	C4'-C3'-O3'	7.19	123.78	113.00
1	B	1348	C	OP1-P-O3'	7.19	129.56	108.00
1	B	1745	A	OP2-P-O3'	7.19	129.56	108.00
1	B	2144	G	O5'-C5'-C4'	7.19	122.28	111.50
1	B	447	A	P-O3'-C3'	-7.18	109.42	120.20
1	B	1754	A	P-O3'-C3'	-7.18	109.42	120.20
1	B	1996	C	C5'-C4'-C3'	7.18	126.77	116.00
1	B	2109	U	P-O5'-C5'	7.18	131.68	120.90
1	B	1341	G	C2'-C3'-O3'	7.17	124.46	113.70
1	B	2674	G	P-O3'-C3'	-7.17	109.44	120.20
1	B	1312	U	O3'-P-O5'	-7.17	93.25	104.00
1	B	920	A	OP1-P-O3'	7.16	129.49	108.00
1	B	1453	A	P-O3'-C3'	7.16	130.94	120.20
1	B	2125	G	O5'-C5'-C4'	7.16	122.25	111.50
1	B	2433	A	P-O5'-C5'	7.16	131.65	120.90
1	B	2824	C	C5'-C4'-O4'	7.16	120.55	109.80
1	B	1026	G	C5'-C4'-O4'	7.16	120.54	109.80
1	B	1937	A	P-O3'-C3'	-7.16	109.46	120.20
1	B	1690	A	C5'-C4'-C3'	7.16	126.74	116.00
1	B	243	U	O3'-P-O5'	-7.16	93.27	104.00
1	B	373	U	P-O5'-C5'	7.16	131.63	120.90
1	B	510	C	C5'-C4'-C3'	7.16	126.73	116.00
1	B	1065	U	C1'-C2'-O2'	7.16	119.13	108.40
1	B	1543	G	P-O5'-C5'	7.16	131.63	120.90
1	B	1379	U	O5'-C5'-C4'	7.15	122.23	111.50
1	B	1755	A	C2'-C3'-O3'	7.15	124.43	113.70
1	B	1510	G	P-O3'-C3'	7.15	130.93	120.20
1	B	2345	G	O5'-P-OP2	7.15	129.46	108.00
1	B	654	A	C5'-C4'-C3'	7.15	126.72	116.00
1	B	2238	G	C4'-C3'-O3'	7.15	123.72	113.00
1	B	1268	A	O3'-P-O5'	-7.15	93.28	104.00
1	B	2684	U	C2'-C3'-O3'	-7.15	102.98	113.70
1	B	1110	G	C5'-C4'-C3'	7.14	126.72	116.00
1	B	470	A	O5'-C5'-C4'	7.14	122.21	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	307	G	O3'-P-O5'	-7.14	93.30	104.00
1	B	984	A	C4'-C3'-O3'	-7.14	102.30	113.00
1	B	1719	G	C5'-C4'-O4'	7.14	120.50	109.80
1	B	2014	A	P-O3'-C3'	-7.13	109.50	120.20
1	B	1359	A	C2'-C3'-O3'	7.13	124.40	113.70
1	B	1397	U	C5'-C4'-C3'	7.13	126.70	116.00
1	B	2835	A	O3'-P-O5'	-7.13	93.30	104.00
1	B	1438	U	C2'-C3'-O3'	7.13	124.39	113.70
1	B	2789	C	C5'-C4'-C3'	7.13	126.69	116.00
1	B	2823	A	O3'-P-O5'	-7.13	93.31	104.00
1	B	180	G	O5'-C5'-C4'	7.12	122.19	111.50
1	B	1066	U	C4'-C3'-C2'	-7.12	95.47	102.60
1	B	750	A	C5'-C4'-C3'	7.12	126.68	116.00
1	B	876	C	C4'-C3'-O3'	7.12	123.68	113.00
1	B	2763	G	C5'-C4'-C3'	7.12	126.68	116.00
1	B	1197	G	C4'-C3'-O3'	-7.12	102.32	113.00
1	B	2891	U	C5'-C4'-O4'	7.12	120.48	109.80
1	B	63	A	P-O5'-C5'	7.11	131.57	120.90
1	B	330	A	C5'-C4'-C3'	7.11	126.67	116.00
1	B	2597	G	C5'-C4'-C3'	7.11	126.67	116.00
1	B	2737	G	P-O3'-C3'	-7.11	109.54	120.20
1	B	270	A	C2'-C3'-O3'	-7.11	103.04	113.70
1	B	33	C	O5'-C5'-C4'	7.11	122.16	111.50
1	B	277	G	C2'-C3'-O3'	7.11	124.36	113.70
1	B	2873	A	C5'-C4'-C3'	7.10	126.65	116.00
1	B	1626	A	P-O3'-C3'	7.10	130.85	120.20
1	B	1527	G	O5'-C5'-C4'	7.10	122.14	111.50
1	B	1992	G	C5'-C4'-C3'	7.09	126.64	116.00
1	B	2704	C	C5'-C4'-O4'	7.09	120.44	109.80
1	B	1618	1MA	O3'-P-O5'	-7.09	93.36	104.00
1	B	957	C	C5'-C4'-O4'	7.09	120.43	109.80
1	B	1536	C	P-O3'-C3'	-7.09	109.57	120.20
1	B	2821	A	P-O3'-C3'	-7.09	109.57	120.20
1	B	1991	U	O3'-P-O5'	7.09	114.63	104.00
1	B	2050	C	P-O3'-C3'	-7.09	109.57	120.20
1	B	2777	G	C4'-C3'-O3'	7.08	123.63	113.00
1	B	328	U	C4'-C3'-O3'	7.08	123.63	113.00
1	B	1105	U	C2'-C3'-O3'	-7.08	103.08	113.70
1	B	217	A	O5'-P-OP1	-7.08	86.76	108.00
1	B	141	G	P-O3'-C3'	-7.08	109.58	120.20
1	B	1807	G	C2'-C3'-O3'	7.08	124.32	113.70
1	B	229	C	P-O3'-C3'	-7.08	109.59	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2748	A	O3'-P-O5'	-7.08	93.39	104.00
1	B	1392	A	C5'-C4'-O4'	7.07	120.41	109.80
1	B	483	A	C4'-C3'-O3'	7.07	123.61	113.00
1	B	2480	C	P-O3'-C3'	7.06	130.80	120.20
1	B	1884	G	P-O3'-C3'	7.06	130.79	120.20
1	B	1222	U	P-O3'-C3'	-7.06	109.61	120.20
1	B	2824	C	C5'-C4'-C3'	7.06	126.59	116.00
1	B	2575	C	C5'-C4'-C3'	7.06	126.59	116.00
1	B	1848	A	O5'-P-OP1	-7.06	86.83	108.00
1	B	684	G	O5'-C5'-C4'	7.05	122.08	111.50
1	B	652	U	O3'-P-O5'	7.05	114.58	104.00
1	B	686	U	O5'-C5'-C4'	7.05	122.08	111.50
1	B	1392	A	C2'-C3'-O3'	7.05	124.28	113.70
1	B	269	C	C5'-C4'-O4'	7.05	120.38	109.80
1	B	346	A	C2'-C3'-O3'	7.05	124.28	113.70
1	B	862	G	P-O3'-C3'	7.05	130.77	120.20
1	B	1309	G	C4'-C3'-O3'	-7.05	102.43	113.00
1	B	2503	A	C2'-C3'-O3'	7.05	124.27	113.70
1	B	2734	A	P-O3'-C3'	7.05	130.77	120.20
1	B	1354	A	C2'-C3'-O3'	7.04	124.27	113.70
1	B	1103	A	C1'-C2'-O2'	7.04	118.97	108.40
1	B	1866	A	C2'-C3'-O3'	-7.04	103.14	113.70
1	B	1010	A	C2'-C3'-O3'	7.04	124.26	113.70
1	B	1780	A	O3'-P-O5'	-7.04	93.45	104.00
1	B	2133	G	O3'-P-O5'	-7.04	93.45	104.00
1	B	1140	C	P-O3'-C3'	7.03	130.75	120.20
1	B	2870	C	O3'-P-O5'	7.03	114.55	104.00
1	B	727	A	O3'-P-O5'	-7.03	93.45	104.00
1	B	2327	A	C4'-C3'-O3'	-7.03	102.46	113.00
1	B	113	U	OP2-P-O3'	-7.02	86.93	108.00
1	B	1224	U	P-O5'-C5'	7.02	131.44	120.90
1	B	548	G	O3'-P-O5'	-7.02	93.47	104.00
1	B	1715	G	O3'-P-O5'	-7.02	93.47	104.00
1	B	706	A	P-O3'-C3'	7.01	130.71	120.20
1	B	1691	C	O3'-P-O5'	-7.01	93.49	104.00
1	B	2211	A	O3'-P-O5'	-7.01	93.49	104.00
1	B	1248	G	C5'-C4'-C3'	7.01	126.51	116.00
1	B	525	U	C4'-C3'-O3'	7.00	123.50	113.00
1	B	1059	G	C4'-C3'-C2'	7.00	109.60	102.60
1	B	2382	G	O3'-P-O5'	-7.00	93.49	104.00
1	B	1814	G	C4'-C3'-O3'	7.00	123.50	113.00
1	B	1839	G	C4'-C3'-O3'	7.00	123.50	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	429	A	C5'-C4'-O4'	-7.00	95.50	109.50
1	B	1439	A	C5'-C4'-C3'	7.00	126.50	116.00
1	B	255	A	O5'-C5'-C4'	7.00	122.00	111.50
1	B	920	A	C2'-C3'-O3'	-7.00	103.21	113.70
1	B	2335	A	OP2-P-O3'	7.00	128.99	108.00
1	B	1081	U	O4'-C4'-C3'	-7.00	97.00	104.00
1	B	1992	G	P-O3'-C3'	7.00	130.69	120.20
1	B	1967	C	C4'-C3'-O3'	6.99	123.49	113.00
1	B	1287	A	C2'-C3'-O3'	6.99	124.19	113.70
1	B	1545	A	C5'-C4'-O4'	6.99	120.29	109.80
1	B	1760	C	C5'-C4'-O4'	6.99	120.29	109.80
1	B	1359	A	C4'-C3'-O3'	6.99	123.48	113.00
1	B	2022	U	O3'-P-O5'	-6.99	93.52	104.00
1	B	2483	C	C2'-C3'-O3'	6.99	124.18	113.70
1	B	503	A	C5'-C4'-O4'	6.99	119.58	109.10
1	B	203	A	OP2-P-O3'	-6.99	87.04	108.00
1	B	2390	U	C4'-C3'-O3'	6.98	123.48	113.00
1	B	2752	C	C4'-C3'-O3'	6.98	123.47	113.00
1	B	2144	G	O3'-P-O5'	-6.98	93.54	104.00
1	B	276	U	P-O3'-C3'	6.97	130.66	120.20
1	B	571	U	P-O5'-C5'	6.97	131.36	120.90
1	B	2552	U	C4'-C3'-O3'	6.97	123.46	113.00
1	B	34	U	C5'-C4'-C3'	6.97	126.45	116.00
1	B	865	C	C4'-C3'-O3'	6.97	123.45	113.00
1	B	1358	G	O3'-P-O5'	-6.97	93.55	104.00
1	B	469	G	C5'-C4'-C3'	6.97	126.45	116.00
1	B	2690	U	C4'-C3'-O3'	6.97	123.45	113.00
1	B	1964	G	C5'-C4'-C3'	6.96	126.45	116.00
1	B	654	A	C2'-C3'-O3'	6.96	124.14	113.70
1	B	1263	U	C2'-C3'-O3'	6.96	124.14	113.70
1	B	1348	C	C4'-C3'-O3'	-6.96	102.56	113.00
1	B	1499	C	OP1-P-O3'	-6.96	87.11	108.00
1	B	1071	G	C4'-C3'-C2'	-6.96	95.64	102.60
1	B	229	C	C2'-C3'-O3'	-6.96	103.26	113.70
1	B	2068	U	C2'-C3'-O3'	-6.96	103.26	113.70
1	B	2244	U	P-O3'-C3'	-6.96	109.76	120.20
1	B	120	U	C4'-C3'-O3'	6.96	133.37	112.50
1	B	500	G	C2'-C3'-O3'	6.96	124.14	113.70
1	B	506	G	C5'-C4'-O4'	6.96	120.23	109.80
1	B	2726	A	P-O5'-C5'	6.96	131.33	120.90
1	B	697	G	O3'-P-O5'	-6.95	93.57	104.00
1	B	1321	A	C5'-C4'-C3'	6.95	126.42	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1571	A	C2'-C3'-O3'	6.95	124.13	113.70
1	B	1693	U	O3'-P-O5'	-6.95	93.58	104.00
1	B	1394	U	O3'-P-O5'	-6.95	93.58	104.00
1	B	1679	A	C2'-C3'-O3'	6.95	124.12	113.70
1	B	933	A	OP1-P-O3'	6.95	128.84	108.00
1	B	1782	U	C4'-C3'-O3'	6.95	123.42	113.00
1	B	1032	A	O5'-C5'-C4'	6.95	121.92	111.50
1	B	2645	G	O5'-C5'-C4'	6.94	121.92	111.50
1	B	836	G	O3'-P-O5'	-6.93	93.60	104.00
1	B	1467	U	P-O3'-C3'	6.93	130.60	120.20
1	B	472	A	O3'-P-O5'	-6.93	93.60	104.00
1	B	1288	G	O3'-P-O5'	6.93	114.40	104.00
1	B	1328	A	C5'-C4'-C3'	6.93	126.40	116.00
1	B	555	G	P-O5'-C5'	6.93	131.29	120.90
1	B	655	A	C5'-C4'-C3'	6.93	126.39	116.00
1	B	1688	U	C5'-C4'-O4'	6.93	120.19	109.80
1	B	2849	U	C5'-C4'-C3'	6.93	126.39	116.00
1	B	1282	U	O3'-P-O5'	-6.93	93.61	104.00
1	B	1458	U	C5'-C4'-O4'	6.93	120.19	109.80
1	B	1377	G	C2'-C3'-O3'	6.92	124.09	113.70
1	B	1057	A	N9-C1'-C2'	-6.92	101.61	112.00
1	B	810	U	C5'-C4'-C3'	6.92	126.38	116.00
1	B	2505	G	P-O3'-C3'	-6.92	109.83	120.20
1	B	1567	G	C5'-C4'-O4'	6.92	120.17	109.80
1	B	1326	U	OP2-P-O3'	-6.91	87.26	108.00
1	B	2307	G	C5'-C4'-O4'	6.91	120.17	109.80
1	B	2653	U	O4'-C1'-N1	-6.91	98.13	108.50
1	B	269	C	C5'-C4'-C3'	6.91	126.36	116.00
1	B	1283	G	C5'-C4'-O4'	6.91	120.17	109.80
1	B	2202	U	P-O3'-C3'	6.91	130.56	120.20
1	B	1695	G	P-O3'-C3'	6.91	130.56	120.20
1	B	2119	A	C4'-C3'-O3'	6.90	123.36	113.00
1	B	138	U	C5'-C4'-C3'	6.90	126.35	116.00
1	B	310	A	C4'-C3'-O3'	6.90	123.35	113.00
1	B	321	U	O3'-P-O5'	6.90	114.35	104.00
1	B	631	A	O3'-P-O5'	-6.90	93.65	104.00
1	B	2482	A	C5'-C4'-C3'	6.90	126.35	116.00
1	B	319	G	O3'-P-O5'	6.90	114.34	104.00
1	B	861	A	OP2-P-O3'	6.89	128.69	108.00
1	B	28	A	C5'-C4'-O4'	-6.89	99.46	109.80
1	B	49	A	P-O5'-C5'	6.89	131.24	120.90
1	B	1451	C	P-O3'-C3'	6.89	130.54	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2871	U	O3'-P-O5'	-6.89	93.66	104.00
1	B	229	C	OP1-P-O3'	6.89	128.67	108.00
1	B	499	U	C5'-C4'-O4'	6.89	120.14	109.80
1	B	1100	C	P-O3'-C3'	-6.89	109.87	120.20
1	B	263	G	P-O3'-C3'	6.89	130.53	120.20
1	B	778	G	O3'-P-O5'	-6.89	93.67	104.00
1	B	961	C	O3'-P-O5'	-6.89	93.67	104.00
1	B	507	A	C5'-C4'-C3'	6.88	126.32	116.00
1	B	619	G	C5'-C4'-C3'	6.88	126.32	116.00
1	B	463	G	C5'-C4'-O4'	6.88	120.11	109.80
1	B	713	G	C5'-C4'-O4'	6.88	120.11	109.80
1	B	861	A	C5'-C4'-O4'	-6.88	99.48	109.80
1	B	2029	G	P-O5'-C5'	6.88	131.21	120.90
1	B	654	A	O3'-P-O5'	-6.88	93.69	104.00
1	B	1068	G	C1'-C2'-O2'	6.88	118.71	108.40
1	B	1331	G	OP2-P-O3'	-6.88	87.37	108.00
1	B	1573	G	C5'-C4'-O4'	6.87	120.11	109.80
1	B	1932	A	C4'-C3'-O3'	6.87	123.31	113.00
1	B	2351	G	C5'-C4'-C3'	6.87	126.31	116.00
1	B	2608	G	P-O3'-C3'	6.87	130.51	120.20
1	B	1020	A	C5'-C4'-O4'	-6.87	99.50	109.80
1	B	836	G	P-O3'-C3'	-6.87	109.90	120.20
1	B	561	G	C2'-C3'-O3'	6.87	124.00	113.70
1	B	157	C	P-O3'-C3'	-6.86	109.91	120.20
1	B	500	G	P-O5'-C5'	-6.86	110.61	120.90
1	B	830	G	P-O3'-C3'	-6.86	109.91	120.20
1	B	1241	A	C5'-C4'-C3'	6.86	126.29	116.00
1	B	125	A	C4'-C3'-O3'	6.86	123.29	113.00
1	B	165	A	C5'-C4'-O4'	6.86	120.09	109.80
1	B	1819	A	C4'-C3'-O3'	6.86	123.29	113.00
1	B	1940	U	O3'-P-O5'	6.86	114.29	104.00
1	B	1889	A	P-O3'-C3'	-6.86	109.92	120.20
1	B	1542	U	O3'-P-O5'	6.85	114.28	104.00
1	B	2821	A	O5'-C5'-C4'	6.85	121.78	111.50
1	B	734	A	C2'-C3'-O3'	-6.85	103.42	113.70
1	B	566	U	C2'-C3'-O3'	-6.85	103.43	113.70
1	B	2705	A	C2'-C3'-O3'	6.85	123.97	113.70
1	B	346	A	C5'-C4'-O4'	6.85	120.07	109.80
1	B	878	A	O3'-P-O5'	-6.85	93.73	104.00
1	B	1605	C	O3'-P-O5'	-6.85	93.73	104.00
1	B	1790	C	C5'-C4'-O4'	-6.85	99.53	109.80
1	B	483	A	OP2-P-O3'	6.85	128.54	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	725	G	O3'-P-O5'	-6.85	93.73	104.00
1	B	1839	G	C2'-C3'-O3'	6.85	123.97	113.70
1	B	2391	G	C5'-C4'-C3'	6.84	126.27	116.00
1	B	2499	C	C5'-C4'-O4'	6.84	120.07	109.80
1	B	26	G	C5'-C4'-C3'	6.84	126.27	116.00
1	B	2360	G	C5'-C4'-O4'	-6.84	99.54	109.80
1	B	455	C	O5'-C5'-C4'	6.84	121.76	111.50
1	B	1197	G	P-O5'-C5'	6.84	131.15	120.90
1	B	1928	A	C4'-C3'-O3'	6.84	123.25	113.00
1	B	1339	G	O3'-P-O5'	-6.83	93.75	104.00
1	B	789	A	C5'-C4'-O4'	6.83	120.05	109.80
1	B	1962	C	C5'-C4'-C3'	6.83	126.25	116.00
1	B	2430	A	C5'-C4'-C3'	6.83	126.25	116.00
1	B	1514	G	C5'-C4'-O4'	6.83	120.04	109.80
1	B	2370	G	P-O3'-C3'	-6.83	109.96	120.20
1	B	1188	U	C5'-C4'-C3'	6.83	126.24	116.00
1	B	1970	A	P-O3'-C3'	6.83	130.44	120.20
1	B	1062	G	C1'-C2'-O2'	6.82	118.63	108.40
1	B	2371	G	C4'-C3'-O3'	6.82	123.24	113.00
1	B	503	A	OP1-P-O3'	6.82	128.46	108.00
1	B	330	A	O3'-P-O5'	6.82	114.23	104.00
1	B	299	A	O3'-P-O5'	6.82	114.22	104.00
1	B	984	A	P-O5'-C5'	6.82	131.12	120.90
1	B	1663	G	O3'-P-O5'	6.82	114.22	104.00
1	B	2732	G	C5'-C4'-C3'	6.82	126.22	116.00
1	B	2173	A	C5'-C4'-C3'	6.81	126.22	116.00
1	B	234	U	OP2-P-O3'	6.81	128.44	108.00
1	B	984	A	C5'-C4'-C3'	6.81	126.22	116.00
1	B	1340	U	C5'-C4'-C3'	6.81	126.22	116.00
1	B	1819	A	P-O3'-C3'	-6.81	109.98	120.20
1	B	2517	C	P-O3'-C3'	6.81	130.42	120.20
1	B	1010	A	C4'-C3'-O3'	6.81	123.22	113.00
1	B	1029	A	C2'-C3'-O3'	-6.81	103.49	113.70
1	B	2226	C	C2'-C3'-O3'	6.81	123.92	113.70
1	B	2382	G	C5'-C4'-O4'	-6.81	99.58	109.80
1	B	525	U	C5'-C4'-C3'	6.81	126.21	116.00
1	B	1433	A	C5'-C4'-C3'	6.81	126.21	116.00
1	B	1022	G	C2'-C3'-O3'	6.80	123.91	113.70
1	B	127	A	C4'-C3'-O3'	6.80	119.60	109.40
1	B	1962	C	O3'-P-O5'	-6.80	93.80	104.00
1	B	726	G	C2'-C3'-O3'	6.80	123.90	113.70
1	B	9	G	O3'-P-O5'	6.80	114.19	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1010	A	C5'-C4'-C3'	6.80	126.19	116.00
1	B	878	A	C4'-C3'-O3'	6.79	123.19	113.00
1	B	2326	C	C5'-C4'-O4'	6.79	119.99	109.80
1	B	510	C	C5'-C4'-O4'	6.79	119.99	109.80
1	B	1626	A	OP2-P-O3'	-6.79	87.63	108.00
1	B	1676	A	C4'-C3'-O3'	6.79	123.19	113.00
1	B	2264	C	P-O3'-C3'	6.79	130.38	120.20
1	B	1545	A	O5'-C5'-C4'	6.79	121.68	111.50
1	B	2598	A	C2'-C3'-O3'	6.78	123.87	113.70
1	B	811	U	OP2-P-O3'	6.78	128.34	108.00
1	B	959	A	C4'-C3'-O3'	6.78	123.17	113.00
1	B	1434	A	C2'-C3'-O3'	6.78	123.87	113.70
1	B	2902	C	O3'-P-O5'	6.78	114.17	104.00
1	B	478	A	C5'-C4'-C3'	6.78	126.16	116.00
1	B	2904	U	C2'-C3'-O3'	6.78	123.86	113.70
1	B	1274	A	C5'-C4'-O4'	6.77	119.25	109.10
1	B	50	U	C4'-C3'-O3'	-6.77	102.85	113.00
1	B	1898	U	P-O3'-C3'	6.77	130.35	120.20
1	B	633	A	C5'-C4'-O4'	6.77	119.95	109.80
1	B	513	A	O3'-P-O5'	-6.76	93.86	104.00
1	B	2042	A	C5'-C4'-O4'	-6.76	99.66	109.80
1	B	2133	G	C4'-C3'-O3'	6.76	123.14	113.00
1	B	1173	U	O3'-P-O5'	-6.76	93.86	104.00
1	B	1371	G	P-O3'-C3'	-6.76	110.06	120.20
1	B	298	G	O3'-P-O5'	6.76	114.14	104.00
1	B	785	G	OP2-P-O3'	6.76	128.27	108.00
1	B	2799	A	O3'-P-O5'	-6.76	93.86	104.00
1	B	488	G	O3'-P-O5'	-6.75	93.87	104.00
1	B	979	A	C5'-C4'-O4'	6.75	119.93	109.80
1	B	819	A	O3'-P-O5'	-6.75	93.88	104.00
1	B	1099	G	C2'-C3'-O3'	6.75	123.82	113.70
1	B	1404	C	OP2-P-O3'	-6.75	87.76	108.00
1	B	360	U	C5'-C4'-C3'	6.75	126.12	116.00
1	B	871	U	C5'-C4'-O4'	6.75	119.92	109.80
1	B	1990	C	C4'-C3'-O3'	6.74	123.11	113.00
1	B	588	U	O5'-C5'-C4'	6.74	121.81	111.70
1	B	757	G	P-O3'-C3'	6.74	130.31	120.20
1	B	1373	A	C2'-C3'-O3'	6.74	123.81	113.70
1	B	2157	G	C5'-C4'-O4'	6.74	119.91	109.80
1	B	212	G	O3'-P-O5'	6.74	114.10	104.00
1	B	402	A	C5'-C4'-C3'	6.74	126.10	116.00
1	B	637	A	C4'-C3'-O3'	6.73	123.10	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1521	G	P-O3'-C3'	6.73	130.30	120.20
1	B	471	A	C5'-C4'-O4'	6.73	119.89	109.80
1	B	1088	A	N9-C1'-C2'	6.73	124.09	114.00
1	B	1393	A	O3'-P-O5'	-6.73	93.91	104.00
1	B	1467	U	O3'-P-O5'	6.73	114.09	104.00
1	B	803	U	O3'-P-O5'	6.72	114.09	104.00
1	B	2483	C	C5'-C4'-C3'	6.72	126.09	116.00
1	B	531	C	O5'-C5'-C4'	6.72	121.58	111.50
1	B	2062	A	OP1-P-O3'	6.72	128.17	108.00
1	B	810	U	O5'-C5'-C4'	6.72	121.58	111.50
1	B	1110	G	C2'-C3'-O3'	6.72	123.78	113.70
1	B	1130	U	C5'-C4'-C3'	6.72	126.08	116.00
1	B	2158	A	C5'-C4'-O4'	6.72	119.88	109.80
1	B	2171	A	C5'-C4'-O4'	6.72	119.88	109.80
1	B	2497	A	O5'-C5'-C4'	-6.72	101.42	111.50
1	B	2858	C	C5'-C4'-C3'	6.72	126.08	116.00
1	B	2739	U	O3'-P-O5'	-6.72	93.92	104.00
1	B	53	A	O3'-P-O5'	-6.72	93.93	104.00
1	B	1887	C	C5'-C4'-C3'	6.72	126.07	116.00
1	B	1359	A	O3'-P-O5'	-6.71	93.93	104.00
1	B	1782	U	C2'-C3'-O3'	6.71	123.77	113.70
1	B	340	A	C4'-C3'-O3'	6.71	123.07	113.00
1	B	366	C	O3'-P-O5'	-6.71	93.93	104.00
1	B	1509	A	C4'-C3'-O3'	6.71	123.07	113.00
1	B	1964	G	O3'-P-O5'	-6.71	93.94	104.00
1	B	294	A	OP1-P-O3'	6.71	128.12	108.00
1	B	2021	C	P-O5'-C5'	6.71	130.96	120.90
1	B	2904	U	C5'-C4'-C3'	6.71	126.06	116.00
1	B	1773	A	O3'-P-O5'	-6.70	93.95	104.00
1	B	160	A	P-O5'-C5'	-6.70	110.85	120.90
1	B	914	G	O3'-P-O5'	-6.70	93.95	104.00
1	B	2566	A	P-O5'-C5'	-6.70	110.85	120.90
1	B	676	A	C4'-C3'-O3'	6.70	123.05	113.00
1	B	1543	G	C5'-C4'-C3'	6.69	126.04	116.00
1	B	2501	C	O3'-P-O5'	-6.69	93.96	104.00
1	B	307	G	C2'-C3'-O3'	6.69	123.73	113.70
1	B	866	A	C4'-C3'-O3'	6.68	123.02	113.00
1	B	1186	G	O5'-C5'-C4'	6.68	121.52	111.50
1	B	2082	A	C2'-C3'-O3'	-6.68	103.68	113.70
1	B	1457	U	P-O3'-C3'	-6.68	110.18	120.20
1	B	1509	A	O3'-P-O5'	-6.68	93.98	104.00
1	B	2610	C	O3'-P-O5'	-6.68	93.98	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	781	A	O5'-C5'-C4'	6.68	121.52	111.50
1	B	810	U	C5'-C4'-O4'	6.68	119.81	109.80
1	B	1132	U	O3'-P-O5'	6.68	114.02	104.00
1	B	2566	A	C4'-C3'-O3'	-6.67	102.99	113.00
1	B	228	C	C5'-C4'-C3'	6.67	126.00	116.00
1	B	1107	G	C1'-C2'-O2'	6.67	118.40	108.40
1	B	1204	A	C5'-C4'-O4'	6.67	119.80	109.80
1	B	277	G	O5'-C5'-C4'	6.67	121.50	111.50
1	B	871	U	O3'-P-O5'	-6.66	94.01	104.00
1	B	1073	A	C2'-C3'-O3'	-6.66	103.71	113.70
1	B	1819	A	C2'-C3'-O3'	6.66	123.69	113.70
1	B	1603	A	O3'-P-O5'	-6.66	94.01	104.00
1	B	1653	G	C5'-C4'-C3'	6.66	125.99	116.00
1	B	1760	C	C2'-C3'-O3'	6.66	123.69	113.70
1	B	2602	A	C5'-C4'-O4'	6.66	119.79	109.80
1	B	1089	A	O4'-C1'-C2'	6.66	112.46	105.80
1	B	1752	C	C2'-C3'-O3'	6.66	123.69	113.70
1	B	2505	G	C2'-C3'-O3'	6.66	123.68	113.70
1	B	806	C	C4'-C3'-O3'	6.65	122.98	113.00
1	B	1466	U	C2'-C3'-O3'	-6.65	103.72	113.70
1	B	1525	A	C5'-C4'-O4'	6.65	119.78	109.80
1	B	276	U	C5'-C4'-O4'	-6.65	99.82	109.80
1	B	810	U	C4'-C3'-O3'	6.65	122.98	113.00
1	B	241	A	P-O3'-C3'	-6.65	110.22	120.20
1	B	2834	G	C4'-C3'-O3'	6.65	122.97	113.00
1	B	34	U	OP1-P-O3'	-6.65	88.06	108.00
1	B	780	G	C2'-C3'-O3'	6.65	123.67	113.70
1	B	1062	G	N9-C1'-C2'	6.64	121.97	112.00
1	B	1236	G	C5'-C4'-C3'	6.64	125.97	116.00
1	B	1962	C	O5'-C5'-C4'	6.64	121.47	111.50
1	B	1853	A	C5'-C4'-O4'	6.64	119.76	109.80
1	B	2638	G	C5'-C4'-C3'	6.64	125.96	116.00
1	B	1135	C	O3'-P-O5'	-6.64	94.05	104.00
1	B	1309	G	C5'-C4'-O4'	6.63	119.75	109.80
1	B	1614	A	P-O3'-C3'	-6.63	110.25	120.20
1	B	2502	G	P-O5'-C5'	6.63	130.85	120.90
1	B	1789	A	O3'-P-O5'	6.63	113.94	104.00
1	B	112	U	C5'-C4'-O4'	-6.62	99.87	109.80
1	B	403	U	O3'-P-O5'	-6.62	94.06	104.00
1	B	1393	A	C2'-C3'-O3'	6.62	123.64	113.70
1	B	404	A	C5'-C4'-C3'	6.62	125.93	116.00
1	B	2203	U	C2'-C3'-O3'	6.62	123.63	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2320	U	C5'-C4'-C3'	6.62	125.93	116.00
1	B	1251	C	C5'-C4'-O4'	6.62	119.73	109.80
1	B	1752	C	O3'-P-O5'	6.62	113.93	104.00
1	B	2267	A	C5'-C4'-C3'	6.62	125.93	116.00
1	B	979	A	O3'-P-O5'	-6.62	94.08	104.00
1	B	1720	U	C4'-C3'-O3'	6.62	122.92	113.00
1	B	548	G	C5'-C4'-O4'	6.61	119.71	109.80
1	B	2675	A	P-O3'-C3'	6.61	130.12	120.20
1	B	906	U	C2'-C3'-O3'	6.60	123.60	113.70
1	B	362	A	OP1-P-O3'	6.60	127.79	108.00
1	B	1115	G	O5'-C5'-C4'	6.60	121.39	111.50
1	B	1833	C	O3'-P-O5'	-6.60	94.10	104.00
1	B	2805	C	P-O3'-C3'	6.60	130.10	120.20
1	B	1713	A	P-O5'-C5'	-6.60	111.01	120.90
1	B	71	A	C5'-C4'-C3'	6.59	125.89	116.00
1	B	278	A	P-O3'-C3'	-6.59	110.32	120.20
1	B	1885	A	P-O3'-C3'	6.59	130.08	120.20
1	B	2394	C	O5'-C5'-C4'	6.58	121.38	111.50
1	B	2850	A	O3'-P-O5'	6.58	113.88	104.00
1	B	1509	A	P-O5'-C5'	6.58	130.77	120.90
1	B	1634	A	O5'-C5'-C4'	6.58	121.37	111.50
1	B	1964	G	P-O3'-C3'	6.58	130.07	120.20
1	B	64	A	C2'-C3'-O3'	-6.57	103.84	113.70
1	B	1059	G	O4'-C4'-C3'	-6.57	97.43	104.00
1	B	1241	A	C2'-C3'-O3'	-6.57	103.84	113.70
1	B	83	A	O5'-C5'-C4'	6.57	121.36	111.50
1	B	1364	G	C4'-C3'-O3'	6.57	122.86	113.00
1	B	2179	C	C5'-C4'-O4'	6.57	119.66	109.80
1	B	2252	G	C4'-C3'-O3'	6.57	122.86	113.00
1	B	2779	U	C2'-C3'-O3'	6.57	123.56	113.70
1	B	90	U	P-O5'-C5'	6.57	130.75	120.90
1	B	945	A	OP1-P-O3'	6.57	127.71	108.00
1	B	1526	C	C5'-C4'-C3'	6.57	125.85	116.00
1	B	2433	A	O3'-P-O5'	-6.57	94.15	104.00
1	B	562	U	C5'-C4'-O4'	6.57	119.65	109.80
1	B	1046	A	O5'-C5'-C4'	6.56	121.34	111.50
1	B	2117	A	C5'-C4'-C3'	6.56	125.84	116.00
1	B	1371	G	C5'-C4'-C3'	6.56	125.84	116.00
1	B	2131	U	P-O3'-C3'	-6.56	110.36	120.20
1	B	2497	A	C5'-C4'-O4'	6.56	119.64	109.80
1	B	1928	A	O5'-P-OP1	-6.55	88.34	108.00
1	B	565	C	O3'-P-O5'	6.55	113.83	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	847	U	OP2-P-O3'	-6.55	88.35	108.00
1	B	1457	U	C4'-C3'-O3'	6.55	122.83	113.00
1	B	896	A	C5'-C4'-O4'	6.55	119.62	109.80
1	B	2016	U	C5'-C4'-C3'	6.54	125.81	116.00
1	B	507	A	C5'-C4'-O4'	6.54	119.61	109.80
1	B	2763	G	C5'-C4'-O4'	6.54	119.61	109.80
1	B	865	C	O3'-P-O5'	-6.54	94.19	104.00
1	B	1129	A	C5'-C4'-O4'	6.54	119.61	109.80
1	B	280	U	C4'-C3'-O3'	6.53	122.80	113.00
1	B	374	A	C4'-C3'-O3'	6.53	122.80	113.00
1	B	2009	A	OP1-P-O3'	6.53	127.59	108.00
1	B	2475	C	O3'-P-O5'	-6.53	94.20	104.00
1	B	460	A	C2'-C3'-O3'	6.53	123.49	113.70
1	B	792	A	C4'-C3'-O3'	6.53	122.79	113.00
1	B	1688	U	C5'-C4'-C3'	6.53	125.79	116.00
1	B	859	G	C2'-C3'-O3'	6.53	123.49	113.70
1	B	1692	U	O3'-P-O5'	-6.53	94.21	104.00
1	B	2169	A	C5'-C4'-O4'	6.53	119.59	109.80
1	B	2780	G	C4'-C3'-O3'	-6.52	103.21	113.00
1	B	1225	G	C4'-C3'-O3'	6.52	122.78	113.00
1	B	2433	A	C4'-C3'-O3'	6.52	122.78	113.00
1	B	2042	A	OP2-P-O3'	6.52	127.56	108.00
1	B	1634	A	C5'-C4'-C3'	6.52	125.78	116.00
1	B	943	A	C5'-C4'-O4'	6.52	119.58	109.80
1	B	1745	A	C5'-C4'-C3'	6.52	125.78	116.00
1	B	2196	C	O3'-P-O5'	-6.52	94.22	104.00
1	B	2319	G	O3'-P-O5'	-6.51	94.23	104.00
1	B	1379	U	OP1-P-O3'	6.51	127.54	108.00
1	B	215	G	C4'-C3'-O3'	6.51	122.76	113.00
1	B	1271	G	O5'-C5'-C4'	6.50	121.25	111.50
1	B	2326	C	C4'-C3'-O3'	6.50	122.75	113.00
1	B	785	G	OP1-P-O3'	-6.50	88.50	108.00
1	B	1911	PSU	O3'-P-O5'	-6.50	94.25	104.00
1	B	2432	A	C5'-C4'-C3'	6.50	125.75	116.00
1	B	1859	U	C5'-C4'-C3'	6.50	125.75	116.00
1	B	1870	C	O3'-P-O5'	-6.50	94.25	104.00
1	B	1568	G	C4'-C3'-O3'	6.49	122.74	113.00
1	B	1738	G	O5'-C5'-C4'	6.49	121.24	111.50
1	B	2014	A	C2'-C3'-O3'	6.49	123.44	113.70
1	B	530	G	C5'-C4'-C3'	6.49	125.73	116.00
1	B	603	A	O5'-C5'-C4'	6.49	121.23	111.50
1	B	1188	U	O3'-P-O5'	-6.49	94.27	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1866	A	P-O5'-C5'	-6.49	111.17	120.90
1	B	576	U	O3'-P-O5'	-6.48	94.27	104.00
1	B	749	A	C4'-C3'-O3'	6.48	122.72	113.00
1	B	995	C	O3'-P-O5'	-6.48	94.28	104.00
1	B	1020	A	C5'-C4'-C3'	6.48	125.72	116.00
1	B	111	A	C2'-C3'-O3'	-6.48	103.98	113.70
1	B	1610	A	P-O5'-C5'	6.47	130.61	120.90
1	B	1700	A	O3'-P-O5'	-6.47	94.29	104.00
1	B	1752	C	C5'-C4'-O4'	6.47	119.51	109.80
1	B	2858	C	C5'-C4'-O4'	6.47	119.50	109.80
1	B	781	A	O3'-P-O5'	-6.47	94.30	104.00
1	B	2091	C	O3'-P-O5'	-6.47	94.30	104.00
1	B	232	G	O5'-C5'-C4'	-6.46	101.80	111.50
1	B	2733	A	C5'-C4'-O4'	6.46	119.50	109.80
1	B	749	A	O3'-P-O5'	-6.46	94.31	104.00
1	B	1341	G	O3'-P-O5'	-6.46	94.31	104.00
1	B	202	U	C5'-C4'-C3'	6.46	125.69	116.00
1	B	1354	A	O3'-P-O5'	-6.46	94.31	104.00
1	B	2882	A	O3'-P-O5'	-6.46	94.31	104.00
1	B	760	G	P-O3'-C3'	-6.46	110.51	120.20
1	B	1566	A	C5'-C4'-C3'	-6.46	106.32	116.00
1	B	2298	A	C4'-C3'-O3'	6.46	122.69	113.00
1	B	1456	G	C5'-C4'-C3'	6.46	125.68	116.00
1	B	497	A	C5'-C4'-O4'	6.45	119.48	109.80
1	B	2448	A	O5'-C5'-C4'	6.45	121.18	111.50
1	B	569	U	O5'-C5'-C4'	6.45	121.17	111.50
1	B	1358	G	C4'-C3'-O3'	6.45	122.68	113.00
1	B	1458	U	C4'-C3'-O3'	6.45	122.68	113.00
1	B	2311	A	O3'-P-O5'	-6.45	94.33	104.00
1	B	2608	G	C5'-C4'-O4'	-6.44	100.14	109.80
1	B	264	C	C2'-C3'-O3'	-6.44	104.04	113.70
1	B	920	A	C4'-C3'-O3'	6.44	122.66	113.00
1	B	999	U	O3'-P-O5'	-6.44	94.35	104.00
1	B	2572	A	O3'-P-O5'	-6.44	94.35	104.00
1	B	241	A	C2'-C3'-O3'	-6.43	104.05	113.70
1	B	748	G	C4'-C3'-O3'	-6.43	103.35	113.00
1	B	863	A	C5'-C4'-C3'	6.43	125.65	116.00
1	B	697	G	OP1-P-O3'	6.43	127.30	108.00
1	B	1390	U	O3'-P-O5'	-6.43	94.35	104.00
1	B	1580	A	O3'-P-O5'	-6.43	94.35	104.00
1	B	2610	C	C5'-C4'-C3'	6.43	125.65	116.00
1	B	2722	G	C5'-C4'-O4'	6.43	119.45	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	12	U	O5'-P-OP2	-6.43	88.71	108.00
1	B	405	U	P-O3'-C3'	6.43	129.85	120.20
1	B	1327	A	O5'-P-OP2	6.43	127.29	108.00
1	B	196	A	O3'-P-O5'	-6.43	94.36	104.00
1	B	1268	A	C2'-C3'-O3'	-6.43	104.06	113.70
1	B	2119	A	O5'-C5'-C4'	6.43	121.14	111.50
1	B	641	U	O3'-P-O5'	-6.43	94.36	104.00
1	B	1807	G	P-O3'-C3'	-6.43	110.56	120.20
1	B	1000	A	C2'-C3'-O3'	6.42	123.34	113.70
1	B	1847	A	P-O5'-C5'	6.42	130.54	120.90
1	B	2583	G	C5'-C4'-C3'	6.42	125.64	116.00
1	B	2452	C	OP2-P-O3'	-6.42	88.74	108.00
1	B	1126	A	O5'-C5'-C4'	6.42	121.13	111.50
1	B	2390	U	O3'-P-O5'	-6.42	94.37	104.00
1	B	2722	G	O5'-C5'-C4'	-6.42	101.87	111.50
1	B	1360	G	O5'-C5'-C4'	6.42	121.12	111.50
1	B	827	U	O3'-P-O5'	-6.41	94.38	104.00
1	B	1104	C	C1'-C2'-O2'	6.41	118.02	108.40
1	B	1428	C	OP1-P-O3'	-6.41	88.76	108.00
1	B	1613	G	C5'-C4'-O4'	6.41	119.42	109.80
1	B	807	U	O3'-P-O5'	-6.41	94.39	104.00
1	B	1513	U	O3'-P-O5'	-6.41	94.38	104.00
1	B	1886	U	P-O3'-C3'	-6.41	110.58	120.20
1	B	2163	A	C2'-C3'-O3'	6.41	123.31	113.70
1	B	2482	A	C2'-C3'-O3'	6.41	123.32	113.70
1	B	2203	U	C4'-C3'-O3'	6.41	122.61	113.00
1	B	537	G	O3'-P-O5'	-6.41	94.39	104.00
1	B	1744	A	O3'-P-O5'	-6.41	94.39	104.00
1	B	1751	U	O3'-P-O5'	6.41	113.61	104.00
1	B	704	G	O5'-C5'-C4'	6.40	121.10	111.50
1	B	1857	G	C2'-C3'-O3'	-6.40	104.10	113.70
1	B	2778	A	C2'-C3'-O3'	6.40	123.30	113.70
1	B	1273	U	O5'-C5'-C4'	6.40	121.10	111.50
1	B	2086	U	OP1-P-O3'	6.40	127.19	108.00
1	B	360	U	O3'-P-O5'	-6.39	94.41	104.00
1	B	1008	A	C5'-C4'-C3'	6.39	125.59	116.00
1	B	1126	A	C5'-C4'-C3'	6.39	125.59	116.00
1	B	1847	A	C5'-C4'-O4'	-6.39	100.21	109.80
1	B	1122	G	C5'-C4'-O4'	6.39	119.39	109.80
1	B	1916	A	C5'-C4'-O4'	6.39	119.39	109.80
1	B	1021	A	O5'-C5'-C4'	-6.39	101.92	111.50
1	B	1273	U	C4'-C3'-O3'	6.39	122.58	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1664	A	C5'-C4'-C3'	6.38	125.58	116.00
1	B	2133	G	C5'-C4'-C3'	6.38	125.58	116.00
1	B	2163	A	C5'-C4'-C3'	6.38	125.58	116.00
1	B	2726	A	O3'-P-O5'	-6.38	94.42	104.00
1	B	958	U	C5'-C4'-O4'	6.38	119.38	109.80
1	B	1012	U	OP1-P-O3'	6.38	127.14	108.00
1	B	1560	G	C5'-C4'-O4'	6.38	119.37	109.80
1	B	168	G	C5'-C4'-C3'	6.38	125.57	116.00
1	B	1271	G	C5'-C4'-O4'	6.38	119.37	109.80
1	B	1620	G	OP1-P-O3'	-6.38	88.87	108.00
1	B	713	G	C5'-C4'-C3'	6.37	125.56	116.00
1	B	713	G	O3'-P-O5'	-6.37	94.44	104.00
1	B	785	G	C5'-C4'-C3'	6.37	125.55	116.00
1	B	1211	C	C5'-C4'-C3'	6.37	125.55	116.00
1	B	2062	A	C2'-C3'-O3'	6.37	123.25	113.70
1	B	1067	A	C1'-C2'-O2'	6.37	117.95	108.40
1	B	448	U	O3'-P-O5'	6.37	113.55	104.00
1	B	452	G	C5'-C4'-O4'	6.37	119.35	109.80
1	B	2327	A	OP1-P-O3'	-6.37	88.90	108.00
1	B	189	G	O3'-P-O5'	-6.36	94.45	104.00
1	B	1033	U	O3'-P-O5'	-6.36	94.46	104.00
1	B	651	G	O3'-P-O5'	6.36	113.54	104.00
1	B	685	A	C5'-C4'-O4'	6.36	119.34	109.80
1	B	1020	A	C4'-C3'-O3'	6.36	122.54	113.00
1	B	1802	A	C5'-C4'-O4'	6.36	119.34	109.80
1	B	2433	A	OP2-P-O3'	6.36	127.08	108.00
1	B	1417	C	C2'-C3'-O3'	6.36	123.24	113.70
1	B	1759	A	C4'-C3'-O3'	6.36	122.53	113.00
1	B	643	A	C2'-C3'-O3'	6.36	123.23	113.70
1	B	2765	A	C5'-C4'-C3'	6.36	125.53	116.00
1	B	1601	G	O3'-P-O5'	-6.35	94.47	104.00
1	B	783	A	C5'-C4'-C3'	6.35	125.53	116.00
1	B	1210	G	C5'-C4'-O4'	6.35	119.33	109.80
1	B	2146	C	C5'-C4'-O4'	6.35	119.32	109.80
1	B	1995	U	O3'-P-O5'	-6.35	94.48	104.00
1	B	2394	C	P-O5'-C5'	-6.35	111.38	120.90
1	B	2411	A	O3'-P-O5'	-6.35	94.48	104.00
1	B	1088	A	C4'-C3'-C2'	6.34	108.94	102.60
1	B	1586	A	O5'-C5'-C4'	6.34	121.02	111.50
1	B	262	A	O3'-P-O5'	6.34	113.52	104.00
1	B	1953	A	O3'-P-O5'	-6.34	94.49	104.00
1	B	2125	G	C5'-C4'-C3'	6.34	125.51	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2104	C	OP2-P-O3'	-6.34	88.99	108.00
1	B	2440	C	C2'-C3'-O3'	6.33	123.20	113.70
1	B	9	G	P-O3'-C3'	6.33	129.70	120.20
1	B	2614	A	C5'-C4'-O4'	6.33	119.30	109.80
1	B	2790	U	C5'-C4'-C3'	6.33	125.50	116.00
1	B	651	G	C5'-C4'-C3'	6.33	125.50	116.00
1	B	807	U	C5'-C4'-O4'	6.33	119.30	109.80
1	B	2780	G	OP1-P-O3'	6.33	126.99	108.00
1	B	179	C	C2'-C3'-O3'	6.33	123.19	113.70
1	B	957	C	C5'-C4'-C3'	6.33	125.49	116.00
1	B	1083	U	C1'-C2'-O2'	6.33	117.89	108.40
1	B	1241	A	P-O3'-C3'	-6.33	110.71	120.20
1	B	2116	G	C4'-C3'-O3'	6.33	122.49	113.00
1	B	878	A	OP2-P-O3'	6.33	126.98	108.00
1	B	1373	A	C5'-C4'-O4'	6.33	119.29	109.80
1	B	2848	G	C2'-C3'-O3'	6.32	123.19	113.70
1	B	983	A	C2'-C3'-O3'	6.32	123.18	113.70
1	B	102	U	C5'-C4'-C3'	6.32	125.47	116.00
1	B	989	G	C5'-C4'-C3'	6.32	125.47	116.00
1	B	1610	A	C4'-C3'-O3'	-6.31	103.53	113.00
1	B	568	U	C5'-C4'-O4'	6.31	119.27	109.80
1	B	1249	U	C5'-C4'-C3'	6.31	125.47	116.00
1	B	1934	C	O3'-P-O5'	6.31	113.46	104.00
1	B	1416	G	C2'-C3'-O3'	6.31	123.16	113.70
1	B	297	G	O3'-P-O5'	6.30	113.46	104.00
1	B	310	A	C5'-C4'-O4'	6.30	119.26	109.80
1	B	811	U	P-O5'-C5'	6.30	130.36	120.90
1	B	2394	C	OP1-P-O3'	6.30	126.91	108.00
1	B	1607	C	C4'-C3'-O3'	6.30	122.44	113.00
1	B	620	G	OP2-P-O3'	6.29	126.88	108.00
1	B	1434	A	O3'-P-O5'	-6.29	94.56	104.00
1	B	1509	A	C2'-C3'-O3'	6.29	123.14	113.70
1	B	2609	U	C5'-C4'-O4'	6.29	119.24	109.80
1	B	324	A	C5'-C4'-O4'	-6.29	96.92	109.50
1	B	329	G	C4'-C3'-O3'	6.29	122.43	113.00
1	B	91	A	C5'-C4'-C3'	6.29	125.43	116.00
1	B	1000	A	C4'-C3'-O3'	6.29	122.43	113.00
1	B	1127	A	C5'-C4'-O4'	6.29	119.23	109.80
1	B	1652	A	P-O3'-C3'	-6.29	110.77	120.20
1	B	1581	G	O3'-P-O5'	-6.28	94.58	104.00
1	B	2685	G	C4'-C3'-O3'	6.28	122.42	113.00
1	B	293	U	OP1-P-O3'	6.28	126.83	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1978	A	C5'-C4'-C3'	6.28	125.41	116.00
1	B	391	A	O3'-P-O5'	-6.27	94.59	104.00
1	B	1022	G	O5'-C5'-C4'	6.27	120.91	111.50
1	B	1757	A	O3'-P-O5'	-6.27	94.59	104.00
1	B	733	G	C5'-C4'-C3'	6.27	125.41	116.00
1	B	961	C	P-O3'-C3'	6.27	129.61	120.20
1	B	2825	G	C5'-C4'-O4'	6.27	119.20	109.80
1	B	94	A	C4'-C3'-O3'	-6.27	103.60	113.00
1	B	1582	C	C4'-C3'-O3'	6.27	122.40	113.00
1	B	1045	C	C4'-C3'-O3'	6.26	122.40	113.00
1	B	1275	A	C2'-C3'-O3'	6.26	123.09	113.70
1	B	1930	G	C2'-C3'-O3'	-6.26	104.31	113.70
1	B	1342	A	C5'-C4'-C3'	6.26	125.38	116.00
1	B	944	C	O3'-P-O5'	-6.25	94.62	104.00
1	B	2534	A	C5'-C4'-O4'	6.25	119.18	109.80
1	B	344	A	C4'-C3'-O3'	6.25	122.38	113.00
1	B	1109	C	O5'-C5'-C4'	6.25	120.88	111.50
1	B	800	A	C5'-C4'-O4'	-6.25	100.43	109.80
1	B	1634	A	C5'-C4'-O4'	6.25	119.17	109.80
1	B	2807	U	C5'-C4'-O4'	6.25	119.17	109.80
1	B	1000	A	O5'-C5'-C4'	6.25	120.87	111.50
1	B	1242	U	O3'-P-O5'	-6.25	94.63	104.00
1	B	1676	A	C5'-C4'-C3'	6.25	125.37	116.00
1	B	1912	A	C5'-C4'-O4'	6.25	119.17	109.80
1	B	2739	U	C5'-C4'-C3'	6.25	125.37	116.00
1	B	750	A	C5'-C4'-O4'	6.25	119.17	109.80
1	B	1331	G	OP1-P-O3'	6.25	126.73	108.00
1	B	899	A	O5'-C5'-C4'	6.24	120.86	111.50
1	B	1329	U	C5'-C4'-O4'	6.24	119.16	109.80
1	B	2359	C	C5'-C4'-O4'	6.24	119.16	109.80
1	B	2375	G	C2'-C3'-O3'	6.24	123.06	113.70
1	B	538	A	O3'-P-O5'	-6.24	94.64	104.00
1	B	2245	U	C5'-C4'-C3'	6.24	125.36	116.00
1	B	1364	G	O3'-P-O5'	-6.24	94.65	104.00
1	B	2809	A	C5'-C4'-O4'	6.23	119.15	109.80
1	B	1930	G	C5'-C4'-C3'	6.23	125.35	116.00
1	B	2587	A	O3'-P-O5'	-6.23	94.66	104.00
1	B	1010	A	O5'-C5'-C4'	6.23	120.84	111.50
1	B	2432	A	P-O3'-C3'	-6.22	110.86	120.20
1	B	775	G	O3'-P-O5'	6.22	113.33	104.00
1	B	2272	U	C5'-C4'-O4'	6.22	119.13	109.80
1	B	2274	A	C5'-C4'-C3'	6.22	125.33	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2320	U	O5'-C5'-C4'	6.22	120.83	111.50
1	B	2325	G	C5'-C4'-C3'	6.22	125.33	116.00
1	B	2265	U	O5'-C5'-C4'	6.22	120.83	111.50
1	B	1213	A	O5'-C5'-C4'	6.22	120.83	111.50
1	B	1299	G	C2'-C3'-O3'	6.22	123.03	113.70
1	B	1312	U	P-O3'-C3'	6.22	129.53	120.20
1	B	2721	A	P-O3'-C3'	-6.22	110.87	120.20
1	B	2111	U	P-O3'-C3'	-6.21	110.88	120.20
1	B	637	A	C2'-C3'-O3'	-6.21	104.38	113.70
1	B	130	C	OP2-P-O3'	-6.21	89.37	108.00
1	B	215	G	P-O3'-C3'	6.21	129.51	120.20
1	B	300	A	C2'-C3'-O3'	6.21	123.01	113.70
1	B	1025	G	C5'-C4'-C3'	6.21	125.31	116.00
1	B	914	G	C5'-C4'-C3'	6.21	125.31	116.00
1	B	1007	C	P-O5'-C5'	-6.21	111.59	120.90
1	B	1900	A	C4'-C3'-O3'	-6.21	103.69	113.00
1	B	2565	A	C4'-C3'-O3'	6.21	122.31	113.00
1	B	1060	U	N1-C1'-C2'	6.20	123.31	114.00
1	B	1287	A	C4'-C3'-O3'	6.20	122.31	113.00
1	B	1453	A	O3'-P-O5'	-6.20	94.69	104.00
1	B	1536	C	C2'-C3'-O3'	6.20	123.01	113.70
1	B	1738	G	C5'-C4'-O4'	6.20	119.11	109.80
1	B	1052	C	N1-C1'-C2'	-6.20	102.70	112.00
1	B	739	A	O3'-P-O5'	-6.20	94.70	104.00
1	B	1434	A	C5'-C4'-C3'	6.20	125.30	116.00
1	B	2452	C	O5'-C5'-C4'	6.20	120.80	111.50
1	B	1251	C	P-O3'-C3'	-6.20	110.91	120.20
1	B	1774	C	C5'-C4'-C3'	6.20	125.30	116.00
1	B	2135	A	P-O3'-C3'	6.20	129.49	120.20
1	B	1028	A	P-O3'-C3'	6.19	129.49	120.20
1	B	2320	U	C2'-C3'-O3'	6.19	122.99	113.70
1	B	2475	C	C5'-C4'-O4'	6.19	119.09	109.80
1	B	2224	G	C5'-C4'-C3'	6.19	125.29	116.00
1	B	491	G	C2'-C3'-O3'	6.19	122.98	113.70
1	B	669	G	C2'-C3'-O3'	-6.19	104.41	113.70
1	B	1690	A	C5'-C4'-O4'	6.19	119.08	109.80
1	B	2390	U	C2'-C3'-O3'	6.19	122.99	113.70
1	B	34	U	C2'-C3'-O3'	6.19	122.98	113.70
1	B	71	A	C5'-C4'-O4'	6.19	119.08	109.80
1	B	1249	U	P-O3'-C3'	6.19	129.48	120.20
1	B	1282	U	C2'-C3'-O3'	6.19	122.98	113.70
1	B	2798	U	C4'-C3'-O3'	6.19	122.28	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	412	A	C5'-C4'-C3'	6.18	125.27	116.00
1	B	567	U	C4'-C3'-O3'	6.18	122.27	113.00
1	B	1077	A	C1'-O4'-C4'	-6.18	103.72	109.90
1	B	1211	C	O3'-P-O5'	-6.18	94.73	104.00
1	B	1392	A	C4'-C3'-O3'	6.18	122.27	113.00
1	B	497	A	O3'-P-O5'	6.18	113.26	104.00
1	B	958	U	C5'-C4'-C3'	6.18	125.26	116.00
1	B	2033	A	C5'-C4'-O4'	6.18	119.06	109.80
1	B	13	A	C5'-C4'-C3'	6.17	125.26	116.00
1	B	1353	A	O3'-P-O5'	-6.17	94.74	104.00
1	B	502	A	O3'-P-O5'	-6.17	94.74	104.00
1	B	1992	G	O3'-P-O5'	-6.17	94.74	104.00
1	B	1309	G	O5'-C5'-C4'	6.17	120.75	111.50
1	B	1953	A	C5'-C4'-C3'	6.17	125.25	116.00
1	B	125	A	C5'-C4'-C3'	6.17	125.25	116.00
1	B	2904	U	O5'-C5'-C4'	6.17	120.75	111.50
1	B	1490	A	P-O3'-C3'	-6.17	110.95	120.20
1	B	1136	G	O3'-P-O5'	-6.16	94.75	104.00
1	B	1720	U	C5'-C4'-C3'	6.16	125.24	116.00
1	B	2723	C	O5'-C5'-C4'	6.16	120.74	111.50
1	B	910	A	P-O3'-C3'	-6.16	110.96	120.20
1	B	531	C	C5'-C4'-C3'	6.16	125.23	116.00
1	B	275	C	O5'-C5'-C4'	6.15	120.73	111.50
1	B	2885	G	C5'-C4'-C3'	6.15	125.23	116.00
1	B	307	G	P-O3'-C3'	-6.15	110.97	120.20
1	B	528	A	O3'-P-O5'	-6.15	94.78	104.00
1	B	857	G	C4'-C3'-O3'	-6.15	103.77	113.00
1	B	2428	G	C4'-C3'-O3'	6.15	122.23	113.00
1	B	2712	C	C5'-C4'-O4'	6.15	119.03	109.80
1	B	2144	G	C4'-C3'-O3'	6.15	122.22	113.00
1	B	837	C	P-O3'-C3'	6.14	129.42	120.20
1	B	1266	G	C4'-C3'-O3'	6.14	122.22	113.00
1	B	556	A	C5'-C4'-C3'	6.14	125.21	116.00
1	B	2867	G	C5'-C4'-O4'	6.14	119.01	109.80
1	B	704	G	C5'-C4'-C3'	6.14	125.21	116.00
1	B	1105	U	N1-C1'-C2'	-6.14	102.79	112.00
1	B	162	U	C5'-C4'-O4'	6.14	119.00	109.80
1	B	1370	C	P-O3'-C3'	-6.13	111.00	120.20
1	B	2887	A	OP2-P-O3'	6.13	126.40	108.00
1	B	103	A	OP1-P-O3'	6.13	126.39	108.00
1	B	866	A	C2'-C3'-O3'	6.13	122.90	113.70
1	B	2180	U	P-O3'-C3'	-6.13	111.01	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2483	C	OP1-P-O3'	-6.13	89.62	108.00
1	B	28	A	OP1-P-O3'	-6.12	89.63	108.00
1	B	806	C	C2'-C3'-O3'	6.12	122.89	113.70
1	B	2870	C	C4'-C3'-O3'	6.12	122.19	113.00
1	B	1940	U	P-O5'-C5'	-6.12	111.72	120.90
1	B	612	G	C5'-C4'-C3'	6.12	125.18	116.00
1	B	1536	C	C5'-C4'-O4'	6.12	118.98	109.80
1	B	2169	A	C2'-C3'-O3'	6.12	122.88	113.70
1	B	2450	A	C5'-C4'-C3'	6.12	125.18	116.00
1	B	895	U	O3'-P-O5'	-6.12	94.83	104.00
1	B	1176	U	O3'-P-O5'	-6.12	94.83	104.00
1	B	391	A	C5'-C4'-O4'	6.12	118.97	109.80
1	B	2125	G	C2'-C3'-O3'	6.12	122.88	113.70
1	B	1242	U	O5'-C5'-C4'	6.11	120.67	111.50
1	B	2325	G	C2'-C3'-O3'	6.11	122.87	113.70
1	B	2777	G	C2'-C3'-O3'	6.11	122.87	113.70
1	B	453	A	C5'-C4'-C3'	6.11	125.16	116.00
1	B	1496	A	C4'-C3'-O3'	6.11	122.16	113.00
1	B	2392	A	C5'-C4'-C3'	6.11	125.16	116.00
1	B	913	U	C4'-C3'-O3'	6.11	122.16	113.00
1	B	458	G	C4'-C3'-O3'	6.11	122.16	113.00
1	B	2705	A	C5'-C4'-O4'	6.11	118.96	109.80
1	B	1819	A	OP1-P-O3'	6.10	126.31	108.00
1	B	1039	A	C5'-C4'-O4'	6.10	118.95	109.80
1	B	1071	G	C4'-C3'-O3'	-6.10	103.85	113.00
1	B	1760	C	O3'-P-O5'	-6.10	94.84	104.00
1	B	2305	U	O3'-P-O5'	-6.10	94.85	104.00
1	B	1111	A	P-O5'-C5'	-6.10	111.75	120.90
1	B	1077	A	O4'-C1'-C2'	6.10	113.70	107.60
1	B	322	A	P-O5'-C5'	6.10	130.04	120.90
1	B	454	A	P-O5'-C5'	6.09	130.04	120.90
1	B	616	A	O3'-P-O5'	-6.09	94.86	104.00
1	B	1060	U	C1'-C2'-O2'	6.09	120.94	111.80
1	B	1131	G	O3'-P-O5'	-6.09	94.86	104.00
1	B	1713	A	P-O3'-C3'	-6.09	111.06	120.20
1	B	279	A	O5'-C5'-C4'	6.09	120.63	111.50
1	B	506	G	O5'-C5'-C4'	6.09	120.63	111.50
1	B	1372	U	C2'-C3'-O3'	6.09	122.83	113.70
1	B	1545	A	C2'-C3'-O3'	-6.08	104.58	113.70
1	B	2753	A	C5'-C4'-C3'	6.08	125.12	116.00
1	B	118	A	C4'-C3'-O3'	6.08	122.12	113.00
1	B	1455	G	C4'-C3'-O3'	6.08	122.12	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	49	A	O5'-C5'-C4'	6.08	120.62	111.50
1	B	644	A	C2'-C3'-O3'	6.08	122.82	113.70
1	B	782	A	C5'-C4'-C3'	6.08	125.12	116.00
1	B	1321	A	C5'-C4'-O4'	6.08	118.92	109.80
1	B	2424	C	C5'-C4'-O4'	-6.08	100.68	109.80
1	B	2879	A	OP2-P-O3'	-6.08	89.77	108.00
1	B	101	A	C5'-C4'-O4'	6.08	118.92	109.80
1	B	625	G	O5'-C5'-C4'	6.08	120.61	111.50
1	B	1026	G	O3'-P-O5'	-6.08	94.88	104.00
1	B	1466	U	O3'-P-O5'	6.08	113.11	104.00
1	B	1427	A	O5'-C5'-C4'	-6.07	102.39	111.50
1	B	2092	U	OP2-P-O3'	6.07	126.22	108.00
1	B	1130	U	P-O5'-C5'	-6.07	111.79	120.90
1	B	1089	A	C1'-O4'-C4'	-6.07	103.63	109.70
1	B	1890	A	P-O5'-C5'	6.07	130.00	120.90
1	B	2180	U	C5'-C4'-C3'	6.07	125.11	116.00
1	B	2601	C	OP2-P-O3'	6.07	126.20	108.00
1	B	1814	G	C5'-C4'-C3'	6.06	125.10	116.00
1	B	2258	C	O3'-P-O5'	-6.06	94.90	104.00
1	B	1301	A	O3'-P-O5'	6.06	113.09	104.00
1	B	2243	U	O3'-P-O5'	-6.06	94.91	104.00
1	B	2308	G	C5'-C4'-O4'	6.06	118.89	109.80
1	B	149	A	O5'-C5'-C4'	6.06	120.58	111.50
1	B	538	A	OP2-P-O3'	6.06	126.17	108.00
1	B	513	A	C2'-C3'-O3'	6.05	122.78	113.70
1	B	1352	U	C2'-C3'-O3'	6.05	122.78	113.70
1	B	75	G	C2'-C3'-O3'	-6.05	101.70	113.80
1	B	956	G	C2'-C3'-O3'	6.05	122.78	113.70
1	B	2388	A	O3'-P-O5'	-6.05	94.92	104.00
1	B	217	A	C4'-C3'-O3'	-6.05	103.93	113.00
1	B	827	U	P-O5'-C5'	6.05	129.97	120.90
1	B	896	A	C2'-C3'-O3'	-6.05	104.63	113.70
1	B	1105	U	C4'-C3'-C2'	6.05	108.65	102.60
1	B	2392	A	O3'-P-O5'	-6.05	94.93	104.00
1	B	479	A	C5'-C4'-O4'	-6.04	100.74	109.80
1	B	344	A	C5'-C4'-O4'	6.04	118.85	109.80
1	B	1719	G	O3'-P-O5'	-6.04	94.95	104.00
1	B	613	A	C5'-C4'-O4'	6.03	118.85	109.80
1	B	1514	G	C4'-C3'-O3'	6.03	122.05	113.00
1	B	2389	G	C2'-C3'-O3'	6.03	122.75	113.70
1	B	2321	U	P-O3'-C3'	6.03	129.25	120.20
1	B	492	A	C5'-C4'-C3'	6.03	125.04	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2812	G	OP2-P-O3'	6.02	126.07	108.00
1	B	280	U	O5'-C5'-C4'	6.02	120.53	111.50
1	B	2554	U	C5'-C4'-O4'	6.02	118.83	109.80
1	B	1807	G	C4'-C3'-O3'	6.02	122.03	113.00
1	B	2173	A	C4'-C3'-O3'	-6.02	103.97	113.00
1	B	2171	A	C4'-C3'-O3'	6.02	122.03	113.00
1	B	1360	G	C5'-C4'-O4'	6.02	118.83	109.80
1	B	1723	G	C5'-C4'-C3'	6.02	125.03	116.00
1	B	2179	C	C5'-C4'-C3'	6.02	125.03	116.00
1	B	877	A	O3'-P-O5'	6.01	113.02	104.00
1	B	2110	G	C5'-C4'-C3'	6.01	125.02	116.00
1	B	2162	G	P-O5'-C5'	6.01	129.92	120.90
1	B	1311	G	C2'-C3'-O3'	-6.01	104.68	113.70
1	B	1868	C	O3'-P-O5'	-6.01	94.98	104.00
1	B	2032	G	C5'-C4'-O4'	6.01	118.82	109.80
1	B	1612	C	P-O3'-C3'	-6.01	111.19	120.20
1	B	1693	U	C4'-C3'-O3'	6.01	122.01	113.00
1	B	1516	G	P-O3'-C3'	6.01	129.21	120.20
1	B	480	A	C5'-C4'-O4'	6.00	118.81	109.80
1	B	1918	A	O3'-P-O5'	-6.00	94.99	104.00
1	B	232	G	P-O5'-C5'	-6.00	111.89	120.90
1	B	943	A	C5'-C4'-C3'	6.00	125.00	116.00
1	B	1510	G	O5'-C5'-C4'	6.00	120.51	111.50
1	B	2688	G	C5'-C4'-O4'	6.00	118.80	109.80
1	B	489	G	C5'-C4'-C3'	6.00	125.00	116.00
1	B	811	U	O5'-C5'-C4'	6.00	120.50	111.50
1	B	1853	A	O5'-P-OP2	-6.00	90.00	108.00
1	B	1899	A	O3'-P-O5'	-6.00	95.00	104.00
1	B	2531	A	C5'-C4'-O4'	6.00	118.80	109.80
1	B	705	A	C5'-C4'-C3'	6.00	125.00	116.00
1	B	1689	A	O3'-P-O5'	-6.00	95.01	104.00
1	B	2211	A	C5'-C4'-O4'	6.00	118.79	109.80
1	B	2500	U	C2'-C3'-O3'	5.99	122.69	113.70
1	B	2310	C	C5'-C4'-O4'	5.99	118.79	109.80
1	B	864	G	O5'-C5'-C4'	5.99	120.48	111.50
1	B	1282	U	C5'-C4'-C3'	5.99	124.98	116.00
1	B	1808	A	C5'-C4'-C3'	5.99	124.98	116.00
1	B	48	G	P-O5'-C5'	5.99	129.88	120.90
1	B	1135	C	C5'-C4'-O4'	5.99	118.78	109.80
1	B	157	C	O3'-P-O5'	5.98	112.97	104.00
1	B	472	A	C5'-C4'-C3'	5.98	124.97	116.00
1	B	1111	A	O5'-P-OP1	5.98	125.95	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1429	G	O3'-P-O5'	5.98	112.97	104.00
1	B	1602	U	C5'-C4'-C3'	5.98	124.97	116.00
1	B	117	G	C2'-C3'-O3'	-5.98	104.73	113.70
1	B	674	G	C4'-C3'-O3'	-5.98	104.03	113.00
1	B	1205	A	C5'-C4'-O4'	5.97	118.76	109.80
1	B	1253	A	C5'-C4'-O4'	-5.97	100.84	109.80
1	B	1990	C	OP1-P-O3'	5.97	125.92	108.00
1	B	504	A	O5'-P-OP2	5.97	125.91	108.00
1	B	2265	U	C2'-C3'-O3'	5.97	122.66	113.70
1	B	1322	A	O3'-P-O5'	5.97	112.95	104.00
1	B	890	C	C5'-C4'-O4'	5.97	118.75	109.80
1	B	455	C	C5'-C4'-O4'	5.96	118.75	109.80
1	B	1490	A	C5'-C4'-O4'	5.96	118.75	109.80
1	B	1801	A	C2'-C3'-O3'	5.96	122.64	113.70
1	B	573	U	C4'-C3'-O3'	5.96	121.94	113.00
1	B	1023	U	C5'-C4'-O4'	-5.96	100.86	109.80
1	B	1072	C	C4'-C3'-C2'	-5.96	96.64	102.60
1	B	1359	A	C5'-C4'-C3'	5.96	124.94	116.00
1	B	2158	A	OP2-P-O3'	5.96	125.88	108.00
1	B	2682	A	C4'-C3'-O3'	5.96	121.93	113.00
1	B	198	C	C5'-C4'-C3'	5.95	124.93	116.00
1	B	2287	A	O5'-C5'-C4'	5.95	120.43	111.50
1	B	733	G	C4'-C3'-O3'	5.95	121.93	113.00
1	B	820	A	P-O3'-C3'	5.95	129.13	120.20
1	B	1267	U	C5'-C4'-C3'	5.95	124.93	116.00
1	B	1340	U	O3'-P-O5'	-5.95	95.07	104.00
1	B	2584	U	C2'-C3'-O3'	5.95	122.63	113.70
1	B	126	A	O3'-P-O5'	-5.95	95.08	104.00
1	B	243	U	P-O3'-C3'	-5.95	111.28	120.20
1	B	299	A	P-O3'-C3'	5.95	129.12	120.20
1	B	955	U	P-O3'-C3'	-5.95	111.28	120.20
1	B	1107	G	P-O3'-C3'	-5.95	111.28	120.20
1	B	1377	G	C5'-C4'-O4'	5.95	118.72	109.80
1	B	2890	G	C5'-C4'-C3'	5.95	124.92	116.00
1	B	603	A	P-O3'-C3'	-5.95	111.28	120.20
1	B	270	A	C5'-C4'-C3'	5.94	124.91	116.00
1	B	1495	A	C2'-C3'-O3'	5.94	122.61	113.70
1	B	1715	G	C4'-C3'-O3'	5.94	121.91	113.00
1	B	2421	G	O3'-P-O5'	5.94	112.92	104.00
1	B	160	A	C5'-C4'-O4'	5.94	118.71	109.80
1	B	1115	G	O3'-P-O5'	-5.94	95.09	104.00
1	B	1250	G	P-O3'-C3'	5.94	129.11	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	802	A	O3'-P-O5'	5.94	112.91	104.00
1	B	2531	A	C2'-C3'-O3'	5.94	122.60	113.70
1	B	1635	A	O3'-P-O5'	-5.93	95.10	104.00
1	B	1172	C	O3'-P-O5'	-5.93	95.10	104.00
1	B	2474	U	P-O3'-C3'	-5.93	111.30	120.20
1	B	2597	G	C4'-C3'-O3'	5.93	121.89	113.00
1	B	2394	C	C5'-C4'-O4'	5.93	118.69	109.80
1	B	2022	U	C5'-C4'-O4'	5.92	118.69	109.80
1	B	2440	C	C5'-C4'-C3'	5.92	124.89	116.00
1	B	827	U	C2'-C3'-O3'	5.92	122.58	113.70
1	B	299	A	P-O5'-C5'	5.92	129.78	120.90
1	B	732	C	O3'-P-O5'	-5.92	95.12	104.00
1	B	161	A	C5'-C4'-C3'	5.92	124.88	116.00
1	B	298	G	C5'-C4'-O4'	-5.92	100.92	109.80
1	B	2197	U	C5'-C4'-O4'	5.92	118.67	109.80
1	B	932	U	O3'-P-O5'	-5.91	95.13	104.00
1	B	1759	A	C2'-C3'-O3'	5.91	122.57	113.70
1	B	1608	A	O5'-C5'-C4'	5.91	120.36	111.50
1	B	1968	G	C5'-C4'-O4'	5.91	118.66	109.80
1	B	2451	A	O5'-C5'-C4'	5.91	120.36	111.50
1	B	1582	C	P-O3'-C3'	-5.91	111.34	120.20
1	B	1941	C	O5'-C5'-C4'	5.91	120.36	111.50
1	B	2871	U	P-O3'-C3'	-5.90	111.34	120.20
1	B	645	C	C5'-C4'-C3'	5.90	124.85	116.00
1	B	509	C	C5'-C4'-C3'	5.90	124.85	116.00
1	B	2575	C	O5'-C5'-C4'	5.90	120.35	111.50
1	B	1342	A	O3'-P-O5'	-5.90	95.16	104.00
1	B	1603	A	C5'-C4'-C3'	5.90	124.85	116.00
1	B	1668	A	O5'-P-OP2	-5.90	90.31	108.00
1	B	1731	G	C5'-C4'-O4'	5.90	118.65	109.80
1	B	645	C	O3'-P-O5'	-5.90	95.16	104.00
1	B	789	A	O5'-C5'-C4'	5.89	120.34	111.50
1	B	1392	A	O3'-P-O5'	-5.89	95.16	104.00
1	B	616	A	C5'-C4'-O4'	5.89	118.64	109.80
1	B	1155	A	C5'-C4'-O4'	5.89	118.64	109.80
1	B	1274	A	P-O5'-C5'	5.89	129.74	120.90
1	B	1676	A	C2'-C3'-O3'	-5.89	104.86	113.70
1	B	2826	A	C5'-C4'-C3'	5.89	124.83	116.00
1	B	345	A	O3'-P-O5'	-5.89	95.17	104.00
1	B	2473	U	P-O5'-C5'	5.89	129.73	120.90
1	B	724	U	P-O3'-C3'	-5.89	111.37	120.20
1	B	2406	A	C5'-C4'-C3'	5.89	124.83	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	248	G	C4'-C3'-O3'	5.88	121.83	113.00
1	B	1300	G	P-O3'-C3'	5.88	129.03	120.20
1	B	1379	U	P-O5'-C5'	-5.88	112.07	120.90
1	B	1884	G	P-O5'-C5'	5.88	129.73	120.90
1	B	140	C	O3'-P-O5'	-5.88	95.17	104.00
1	B	572	A	C2'-C3'-O3'	5.88	122.52	113.70
1	B	1572	A	C5'-C4'-C3'	5.88	124.82	116.00
1	B	1613	G	P-O5'-C5'	5.88	129.72	120.90
1	B	1088	A	C1'-C2'-O2'	5.88	120.62	111.80
1	B	1582	C	C5'-C4'-C3'	5.88	124.82	116.00
1	B	1978	A	O5'-C5'-C4'	5.88	120.32	111.50
1	B	782	A	O5'-C5'-C4'	5.88	120.32	111.50
1	B	1377	G	C5'-C4'-C3'	5.88	124.81	116.00
1	B	1307	A	O3'-P-O5'	-5.87	95.19	104.00
1	B	2481	G	C4'-C3'-O3'	5.87	121.81	113.00
1	B	1058	U	O4'-C4'-C3'	-5.87	98.13	104.00
1	B	199	A	C5'-C4'-O4'	5.87	118.61	109.80
1	B	1565	C	C5'-C4'-C3'	-5.87	107.19	116.00
1	B	619	G	C5'-C4'-O4'	5.87	118.60	109.80
1	B	975	A	C5'-C4'-C3'	5.87	124.80	116.00
1	B	1092	C	C3'-C2'-C1'	-5.87	95.43	101.30
1	B	1104	C	O4'-C1'-C2'	-5.87	101.73	107.60
1	B	1049	C	O3'-P-O5'	5.86	112.80	104.00
1	B	1047	G	C5'-C4'-O4'	5.86	118.59	109.80
1	B	1763	G	C5'-C4'-C3'	5.86	124.79	116.00
1	B	1899	A	P-O5'-C5'	5.86	129.69	120.90
1	B	2163	A	O3'-P-O5'	-5.86	95.21	104.00
1	B	403	U	C5'-C4'-O4'	-5.86	101.01	109.80
1	B	2748	A	C5'-C4'-C3'	5.86	124.79	116.00
1	B	160	A	C5'-C4'-C3'	5.85	124.78	116.00
1	B	1287	A	C5'-C4'-O4'	5.85	118.58	109.80
1	B	819	A	C5'-C4'-O4'	5.85	118.58	109.80
1	B	53	A	P-O3'-C3'	5.85	128.97	120.20
1	B	83	A	P-O3'-C3'	-5.85	111.43	120.20
1	B	2751	G	P-O3'-C3'	-5.85	111.42	120.20
1	B	386	G	C5'-C4'-O4'	5.85	118.57	109.80
1	B	913	U	O3'-P-O5'	-5.85	95.23	104.00
1	B	2199	A	C5'-C4'-O4'	5.85	118.57	109.80
1	B	339	U	C5'-C4'-C3'	5.84	124.77	116.00
1	B	1433	A	P-O5'-C5'	5.84	129.67	120.90
1	B	2429	G	C4'-C3'-O3'	-5.84	104.23	113.00
1	B	565	C	O5'-C5'-C4'	5.84	120.26	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1634	A	C2'-C3'-O3'	5.84	122.46	113.70
1	B	1110	G	O5'-C5'-C4'	5.84	120.26	111.50
1	B	1943	U	O5'-C5'-C4'	5.84	120.26	111.50
1	B	2158	A	O3'-P-O5'	-5.84	95.24	104.00
1	B	2887	A	O5'-C5'-C4'	5.84	120.26	111.50
1	B	140	C	C5'-C4'-O4'	5.84	118.56	109.80
1	B	827	U	C5'-C4'-C3'	5.84	124.75	116.00
1	B	2171	A	O3'-P-O5'	-5.83	95.25	104.00
1	B	453	A	P-O3'-C3'	-5.83	111.45	120.20
1	B	2267	A	C5'-C4'-O4'	5.83	118.55	109.80
1	B	2531	A	C4'-C3'-O3'	5.83	121.75	113.00
1	B	2493	U	C5'-C4'-C3'	-5.83	107.25	116.00
1	B	1077	A	P-O5'-C5'	-5.83	112.16	120.90
1	B	791	C	C4'-C3'-O3'	-5.83	104.26	113.00
1	B	401	A	O3'-P-O5'	-5.83	95.26	104.00
1	B	456	C	P-O3'-C3'	5.83	128.94	120.20
1	B	2333	A	C4'-C3'-O3'	5.83	121.74	113.00
1	B	526	A	C2'-C3'-O3'	5.82	122.44	113.70
1	B	1149	G	P-O3'-C3'	5.82	128.94	120.20
1	B	2796	U	P-O3'-C3'	5.82	128.93	120.20
1	B	961	C	C2'-C3'-O3'	-5.82	104.97	113.70
1	B	1040	A	C5'-C4'-O4'	-5.82	101.07	109.80
1	B	1059	G	P-O3'-C3'	-5.81	111.48	120.20
1	B	2351	G	C5'-C4'-O4'	5.81	118.52	109.80
1	B	512	G	C5'-C4'-C3'	5.81	124.72	116.00
1	B	2016	U	P-O3'-C3'	5.81	128.92	120.20
1	B	2732	G	C4'-C3'-O3'	5.81	121.72	113.00
1	B	1060	U	P-O5'-C5'	-5.81	112.19	120.90
1	B	50	U	P-O5'-C5'	5.81	129.61	120.90
1	B	699	A	C2'-C3'-O3'	-5.81	104.99	113.70
1	B	2171	A	O5'-C5'-C4'	5.81	120.21	111.50
1	B	2723	C	O3'-P-O5'	5.80	112.71	104.00
1	B	332	A	O5'-C5'-C4'	5.80	120.20	111.50
1	B	1372	U	C4'-C3'-O3'	5.80	121.70	113.00
1	B	1582	C	C2'-C3'-O3'	5.80	122.40	113.70
1	B	1635	A	C2'-C3'-O3'	5.80	122.40	113.70
1	B	373	U	C5'-C4'-O4'	5.80	118.50	109.80
1	B	2109	U	O5'-C5'-C4'	5.80	120.20	111.50
1	B	280	U	C5'-C4'-O4'	5.80	118.50	109.80
1	B	1329	U	C4'-C3'-O3'	5.80	121.70	113.00
1	B	1373	A	O5'-C5'-C4'	5.79	120.19	111.50
1	B	2252	G	C5'-C4'-C3'	5.79	124.69	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	959	A	C2'-C3'-O3'	5.79	122.39	113.70
1	B	1670	C	C5'-C4'-C3'	5.79	124.69	116.00
1	B	2390	U	C5'-C4'-C3'	5.79	124.69	116.00
1	B	2750	A	P-O5'-C5'	-5.79	112.21	120.90
1	B	388	G	P-O3'-C3'	-5.79	111.52	120.20
1	B	1939	5MU	P-O3'-C3'	5.79	128.88	120.20
1	B	2021	C	C5'-C4'-O4'	5.79	118.48	109.80
1	B	2748	A	C5'-C4'-O4'	5.79	118.48	109.80
1	B	2583	G	O5'-C5'-C4'	5.79	120.18	111.50
1	B	779	U	C2'-C3'-O3'	5.79	122.38	113.70
1	B	176	A	O3'-P-O5'	-5.78	95.33	104.00
1	B	386	G	C5'-C4'-C3'	5.78	124.68	116.00
1	B	449	A	OP1-P-O3'	-5.78	90.65	108.00
1	B	775	G	P-O3'-C3'	-5.78	111.53	120.20
1	B	2565	A	C5'-C4'-O4'	5.78	118.47	109.80
1	B	944	C	C5'-C4'-C3'	5.78	124.67	116.00
1	B	1926	U	C5'-C4'-C3'	5.78	124.67	116.00
1	B	2019	A	C2'-C3'-O3'	5.78	122.37	113.70
1	B	2448	A	C5'-C4'-O4'	-5.78	101.13	109.80
1	B	111	A	P-O3'-C3'	-5.78	111.54	120.20
1	B	471	A	O5'-C5'-C4'	5.78	120.16	111.50
1	B	1522	A	P-O5'-C5'	5.78	129.56	120.90
1	B	2305	U	C4'-C3'-O3'	5.78	121.66	113.00
1	B	2389	G	O3'-P-O5'	-5.78	95.34	104.00
1	B	2428	G	P-O5'-C5'	5.78	129.56	120.90
1	B	511	U	O5'-C5'-C4'	-5.77	102.84	111.50
1	B	1728	C	C5'-C4'-O4'	5.77	118.46	109.80
1	B	1744	A	C4'-C3'-O3'	5.77	121.66	113.00
1	B	760	G	O3'-P-O5'	5.77	112.66	104.00
1	B	1459	G	O3'-P-O5'	-5.77	95.34	104.00
1	B	1690	A	C2'-C3'-O3'	5.77	122.36	113.70
1	B	2253	G	C5'-C4'-C3'	5.77	124.66	116.00
1	B	73	A	O3'-P-O5'	-5.77	95.34	104.00
1	B	340	A	O5'-C5'-C4'	5.77	120.15	111.50
1	B	2629	U	OP1-P-O3'	5.77	125.31	108.00
1	B	1251	C	C2'-C3'-O3'	-5.77	105.05	113.70
1	B	1603	A	C5'-C4'-O4'	5.77	118.45	109.80
1	B	2602	A	P-O3'-C3'	5.76	128.85	120.20
1	B	2684	U	C5'-C4'-O4'	-5.76	101.15	109.80
1	B	1263	U	C5'-C4'-C3'	5.76	124.64	116.00
1	B	792	A	C5'-C4'-C3'	5.76	124.64	116.00
1	B	1951	U	C5'-C4'-O4'	-5.76	100.46	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	612	G	C5'-C4'-O4'	5.76	118.44	109.80
1	B	1188	U	C4'-C3'-O3'	5.76	121.64	113.00
1	B	2431	U	C5'-C4'-O4'	5.76	118.43	109.80
1	B	603	A	C5'-C4'-O4'	5.75	118.43	109.80
1	B	715	A	C5'-C4'-O4'	5.75	118.43	109.80
1	B	1872	A	C5'-C4'-C3'	5.75	124.63	116.00
1	B	1325	U	O3'-P-O5'	5.75	112.63	104.00
1	B	959	A	C5'-C4'-O4'	5.75	118.42	109.80
1	B	2118	U	O5'-C5'-C4'	5.75	120.12	111.50
1	B	2790	U	O3'-P-O5'	-5.75	95.38	104.00
1	B	618	G	P-O3'-C3'	-5.75	111.58	120.20
1	B	1266	G	P-O3'-C3'	-5.75	111.58	120.20
1	B	1299	G	O3'-P-O5'	5.75	112.62	104.00
1	B	2469	A	OP1-P-O3'	-5.75	90.76	108.00
1	B	2357	G	P-O3'-C3'	-5.75	111.58	120.20
1	B	1070	A	C4'-C3'-O3'	5.74	118.01	109.40
1	B	488	G	C5'-C4'-O4'	5.74	118.41	109.80
1	B	2318	G	C4'-C3'-O3'	5.74	121.61	113.00
1	B	1579	A	P-O3'-C3'	-5.74	111.59	120.20
1	B	2185	U	O3'-P-O5'	-5.74	95.39	104.00
1	B	1544	A	C5'-C4'-C3'	5.74	124.60	116.00
1	B	1890	A	O5'-C5'-C4'	5.74	120.10	111.50
1	B	2733	A	O5'-C5'-C4'	5.74	120.10	111.50
1	B	2860	A	C5'-C4'-O4'	5.73	118.40	109.80
1	B	482	A	C5'-C4'-C3'	5.73	124.60	116.00
1	B	2298	A	C5'-C4'-O4'	5.73	118.40	109.80
1	B	465	G	P-O5'-C5'	-5.73	112.30	120.90
1	B	637	A	O5'-C5'-C4'	5.73	120.10	111.50
1	B	735	A	O5'-C5'-C4'	5.73	120.10	111.50
1	B	1007	C	C4'-C3'-O3'	5.73	121.59	113.00
1	B	911	A	O3'-P-O5'	-5.73	95.41	104.00
1	B	1298	C	P-O3'-C3'	5.73	128.79	120.20
1	B	752	A	OP1-P-O3'	5.72	125.17	108.00
1	B	1679	A	O3'-P-O5'	5.72	112.59	104.00
1	B	2115	G	C4'-C3'-O3'	5.72	121.59	113.00
1	B	2705	A	C4'-C3'-O3'	5.72	121.58	113.00
1	B	250	G	C5'-C4'-O4'	5.72	118.38	109.80
1	B	2360	G	O3'-P-O5'	5.72	112.58	104.00
1	B	1497	U	P-O5'-C5'	5.72	129.48	120.90
1	B	48	G	C2'-C3'-O3'	5.72	122.28	113.70
1	B	1390	U	C5'-C4'-C3'	5.72	124.57	116.00
1	B	2587	A	C5'-C4'-C3'	5.72	124.57	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1559	U	O5'-C5'-C4'	5.71	120.07	111.50
1	B	1828	G	C5'-C4'-O4'	5.71	118.37	109.80
1	B	749	A	C5'-C4'-C3'	5.71	124.57	116.00
1	B	1694	C	C5'-C4'-C3'	5.71	124.57	116.00
1	B	556	A	P-O3'-C3'	5.71	128.77	120.20
1	B	1001	A	C5'-C4'-C3'	5.71	124.57	116.00
1	B	1533	C	O3'-P-O5'	-5.71	95.44	104.00
1	B	2856	A	P-O3'-C3'	-5.71	111.64	120.20
1	B	1674	G	O3'-P-O5'	-5.71	95.44	104.00
1	B	2015	A	C5'-C4'-C3'	5.71	124.56	116.00
1	B	2357	G	O3'-P-O5'	-5.71	95.44	104.00
1	B	103	A	OP2-P-O3'	-5.71	90.88	108.00
1	B	1681	G	O5'-C5'-C4'	-5.71	102.94	111.50
1	B	1738	G	C5'-C4'-C3'	5.71	124.56	116.00
1	B	2882	A	P-O3'-C3'	5.70	128.76	120.20
1	B	490	C	C5'-C4'-C3'	5.70	124.55	116.00
1	B	739	A	P-O3'-C3'	5.70	128.75	120.20
1	B	780	G	O3'-P-O5'	-5.70	95.45	104.00
1	B	1457	U	C2'-C3'-O3'	5.70	122.25	113.70
1	B	1677	A	OP2-P-O3'	5.70	125.10	108.00
1	B	1838	C	C4'-C3'-O3'	5.70	121.55	113.00
1	B	1465	G	O3'-P-O5'	5.70	112.54	104.00
1	B	2118	U	C4'-C3'-O3'	5.70	121.54	113.00
1	B	1633	G	C5'-C4'-C3'	5.69	124.54	116.00
1	B	2610	C	C2'-C3'-O3'	5.69	122.24	113.70
1	B	456	C	C4'-C3'-O3'	5.69	121.54	113.00
1	B	898	C	P-O3'-C3'	-5.69	111.66	120.20
1	B	974	G	C5'-C4'-O4'	5.69	118.34	109.80
1	B	1235	G	C5'-C4'-O4'	-5.69	101.26	109.80
1	B	2322	A	P-O5'-C5'	5.69	137.97	120.90
1	B	15	G	P-O3'-C3'	-5.69	111.66	120.20
1	B	2117	A	C4'-C3'-O3'	5.69	121.54	113.00
1	B	2825	G	C5'-C4'-C3'	5.69	124.53	116.00
1	B	223	A	C2'-C3'-O3'	5.69	122.23	113.70
1	B	465	G	C5'-C4'-C3'	5.69	124.53	116.00
1	B	2213	U	C2'-C3'-O3'	5.69	122.23	113.70
1	B	2563	U	O3'-P-O5'	-5.69	95.47	104.00
1	B	1103	A	N9-C1'-C2'	-5.69	103.47	112.00
1	B	1267	U	O3'-P-O5'	-5.68	95.47	104.00
1	B	275	C	C5'-C4'-C3'	-5.68	107.47	116.00
1	B	1598	A	C5'-C4'-C3'	5.68	124.52	116.00
1	B	2172	U	C5'-C4'-C3'	5.68	124.52	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2325	G	C5'-C4'-O4'	5.68	118.32	109.80
1	B	636	G	C2'-C3'-O3'	5.68	122.22	113.70
1	B	1267	U	C5'-C4'-O4'	5.68	118.32	109.80
1	B	1819	A	C5'-C4'-O4'	5.68	118.32	109.80
1	B	309	A	C5'-C4'-O4'	5.68	118.32	109.80
1	B	428	A	P-O3'-C3'	5.68	128.72	120.20
1	B	564	C	C5'-C4'-O4'	5.68	118.31	109.80
1	B	388	G	C5'-C4'-O4'	5.67	118.31	109.80
1	B	1155	A	C5'-C4'-C3'	5.67	124.51	116.00
1	B	1342	A	C5'-C4'-O4'	5.67	118.31	109.80
1	B	2719	G	O3'-P-O5'	-5.67	95.49	104.00
1	B	220	G	C5'-C4'-C3'	5.67	124.51	116.00
1	B	1579	A	C5'-C4'-C3'	5.67	124.51	116.00
1	B	2596	U	C5'-C4'-O4'	5.67	118.31	109.80
1	B	2822	G	C5'-C4'-O4'	5.67	118.31	109.80
1	B	2885	G	O5'-C5'-C4'	5.67	120.01	111.50
1	B	577	G	C2'-C3'-O3'	5.67	122.20	113.70
1	B	789	A	O3'-P-O5'	-5.67	95.49	104.00
1	B	1559	U	C5'-C4'-C3'	5.67	124.51	116.00
1	B	2834	G	P-O3'-C3'	-5.67	111.70	120.20
1	B	1100	C	C4'-C3'-O3'	-5.66	104.50	113.00
1	B	1935	G	C5'-C4'-C3'	5.66	124.50	116.00
1	B	2427	C	C4'-C3'-O3'	5.66	121.49	113.00
1	B	1128	G	C5'-C4'-O4'	5.66	118.29	109.80
1	B	1899	A	C5'-C4'-O4'	5.66	118.29	109.80
1	B	990	A	C5'-C4'-O4'	5.66	118.29	109.80
1	B	1213	A	C4'-C3'-O3'	5.66	121.49	113.00
1	B	847	U	C2'-C3'-O3'	5.65	122.18	113.70
1	B	1348	C	C2'-C3'-O3'	5.65	122.18	113.70
1	B	2391	G	C5'-C4'-O4'	5.65	118.28	109.80
1	B	240	C	O3'-P-O5'	-5.65	95.52	104.00
1	B	2682	A	C5'-C4'-O4'	5.65	118.28	109.80
1	B	826	U	P-O3'-C3'	-5.65	111.73	120.20
1	B	829	A	C5'-C4'-O4'	5.65	118.27	109.80
1	B	2452	C	P-O3'-C3'	5.65	128.67	120.20
1	B	2860	A	C2'-C3'-O3'	5.65	122.17	113.70
1	B	2274	A	P-O3'-C3'	-5.65	111.73	120.20
1	B	2555	U	O3'-P-O5'	-5.64	95.53	104.00
1	B	2726	A	C5'-C4'-C3'	5.64	124.47	116.00
1	B	2887	A	O3'-P-O5'	5.64	112.47	104.00
1	B	1640	A	C5'-C4'-O4'	5.64	118.26	109.80
1	B	361	G	C2'-C3'-O3'	5.64	122.16	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1367	A	O3'-P-O5'	-5.64	95.54	104.00
1	B	1418	G	O5'-C5'-C4'	5.64	119.96	111.50
1	B	199	A	C2'-C3'-O3'	5.64	122.15	113.70
1	B	1617	C	C5'-C4'-O4'	5.64	118.25	109.80
1	B	1781	U	C5'-C4'-C3'	5.64	124.45	116.00
1	B	1963	U	C4'-C3'-O3'	5.64	121.45	113.00
1	B	429	A	C5'-C4'-C3'	5.63	127.27	116.00
1	B	2118	U	P-O5'-C5'	5.63	129.35	120.90
1	B	1583	A	C5'-C4'-C3'	5.63	124.45	116.00
1	B	2429	G	O3'-P-O5'	-5.63	95.55	104.00
1	B	1560	G	O3'-P-O5'	-5.63	95.56	104.00
1	B	2226	C	C5'-C4'-C3'	5.63	124.44	116.00
1	B	2675	A	C5'-C4'-C3'	5.63	124.44	116.00
1	B	1883	U	O3'-P-O5'	-5.63	95.56	104.00
1	B	1819	A	OP2-P-O3'	-5.62	91.12	108.00
1	B	190	A	C5'-C4'-O4'	5.62	118.24	109.80
1	B	2243	U	P-O3'-C3'	-5.62	111.77	120.20
1	B	2393	U	C4'-C3'-O3'	-5.62	104.57	113.00
1	B	899	A	C5'-C4'-C3'	5.62	124.43	116.00
1	B	2602	A	O3'-P-O5'	-5.62	95.58	104.00
1	B	1108	U	C4'-C3'-C2'	-5.61	96.99	102.60
1	B	1932	A	O5'-P-OP1	-5.61	91.16	108.00
1	B	2626	C	O5'-C5'-C4'	5.61	120.12	111.70
1	B	1737	G	C5'-C4'-C3'	5.61	124.41	116.00
1	B	1098	A	C2'-C3'-O3'	5.61	122.11	113.70
1	B	2584	U	C5'-C4'-C3'	5.61	124.41	116.00
1	B	2789	C	P-O3'-C3'	-5.61	111.79	120.20
1	B	161	A	C5'-C4'-O4'	5.61	118.21	109.80
1	B	576	U	C5'-C4'-O4'	5.61	118.21	109.80
1	B	779	U	P-O3'-C3'	-5.61	111.79	120.20
1	B	801	G	O3'-P-O5'	-5.61	95.59	104.00
1	B	178	G	P-O5'-C5'	5.60	129.30	120.90
1	B	859	G	C4'-C3'-O3'	-5.60	104.60	113.00
1	B	886	A	P-O5'-C5'	5.60	129.30	120.90
1	B	464	U	C2'-C3'-O3'	-5.60	105.30	113.70
1	B	2406	A	O3'-P-O5'	5.60	112.40	104.00
1	B	1012	U	O5'-P-OP1	5.60	124.80	108.00
1	B	1103	A	OP1-P-OP2	5.60	136.39	119.60
1	B	1782	U	C5'-C4'-C3'	5.60	124.39	116.00
1	B	2723	C	C5'-C4'-C3'	5.59	124.39	116.00
1	B	642	U	C5'-C4'-O4'	5.59	118.19	109.80
1	B	1865	U	P-O3'-C3'	-5.59	111.81	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1075	C	P-O5'-C5'	-5.59	112.52	120.90
1	B	120	U	C5'-C4'-O4'	5.59	126.26	109.50
1	B	933	A	OP2-P-O3'	-5.59	91.24	108.00
1	B	1981	A	C5'-C4'-C3'	5.59	124.38	116.00
1	B	2689	U	OP2-P-O3'	-5.59	91.24	108.00
1	B	1602	U	O3'-P-O5'	-5.58	95.62	104.00
1	B	2554	U	O3'-P-O5'	5.58	112.37	104.00
1	B	791	C	C5'-C4'-C3'	5.58	124.37	116.00
1	B	2058	A	C5'-C4'-O4'	5.58	118.17	109.80
1	B	196	A	C4'-C3'-O3'	5.58	121.37	113.00
1	B	197	A	P-O3'-C3'	-5.58	111.83	120.20
1	B	1801	A	O5'-C5'-C4'	5.58	119.87	111.50
1	B	1914	C	C5'-C4'-O4'	5.58	118.17	109.80
1	B	1535	A	C5'-C4'-C3'	5.58	124.36	116.00
1	B	479	A	C2'-C3'-O3'	-5.58	105.34	113.70
1	B	233	A	O3'-P-O5'	-5.57	95.64	104.00
1	B	2565	A	O3'-P-O5'	-5.57	95.64	104.00
1	B	1133	A	C2'-C3'-O3'	-5.57	105.35	113.70
1	B	1210	G	O3'-P-O5'	-5.57	95.65	104.00
1	B	2076	U	C2'-C3'-O3'	5.57	122.05	113.70
1	B	382	A	P-O3'-C3'	-5.57	111.85	120.20
1	B	603	A	C5'-C4'-C3'	5.57	124.35	116.00
1	B	165	A	P-O5'-C5'	5.57	129.25	120.90
1	B	513	A	C4'-C3'-O3'	5.57	121.35	113.00
1	B	528	A	C5'-C4'-C3'	5.57	124.35	116.00
1	B	1023	U	O5'-C5'-C4'	-5.57	103.15	111.50
1	B	1348	C	OP2-P-O3'	-5.57	91.30	108.00
1	B	1935	G	O5'-C5'-C4'	5.56	119.85	111.50
1	B	362	A	O5'-C5'-C4'	5.56	119.84	111.50
1	B	1073	A	C4'-C3'-C2'	5.56	108.16	102.60
1	B	423	A	C2'-C3'-O3'	5.56	122.04	113.70
1	B	532	A	C5'-C4'-O4'	5.56	118.14	109.80
1	B	790	U	C5'-C4'-C3'	5.56	124.33	116.00
1	B	1469	A	C5'-C4'-O4'	5.56	118.14	109.80
1	B	2134	A	C5'-C4'-C3'	5.56	124.33	116.00
1	B	1051	G	N9-C1'-C2'	-5.56	103.67	112.00
1	B	2266	A	C5'-C4'-C3'	5.56	124.33	116.00
1	B	2282	G	C2'-C3'-O3'	5.55	122.03	113.70
1	B	383	C	P-O3'-C3'	-5.55	111.87	120.20
1	B	459	U	C2'-C3'-O3'	5.55	122.03	113.70
1	B	673	C	P-O5'-C5'	-5.55	112.57	120.90
1	B	916	G	OP1-P-O3'	-5.55	91.35	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2146	C	P-O3'-C3'	-5.55	111.87	120.20
1	B	164	C	C5'-C4'-O4'	5.55	118.12	109.80
1	B	625	G	C4'-C3'-O3'	5.55	121.32	113.00
1	B	2822	G	O3'-P-O5'	-5.55	95.68	104.00
1	B	2034	U	C5'-C4'-O4'	5.54	118.12	109.80
1	B	2092	U	O3'-P-O5'	5.54	112.32	104.00
1	B	513	A	C5'-C4'-O4'	5.54	118.12	109.80
1	B	2563	U	O5'-C5'-C4'	-5.54	103.19	111.50
1	B	127	A	OP2-P-O3'	5.54	124.63	108.00
1	B	603	A	C4'-C3'-O3'	5.54	121.31	113.00
1	B	1281	G	P-O3'-C3'	5.54	128.51	120.20
1	B	2116	G	C5'-C4'-C3'	5.54	124.31	116.00
1	B	1886	U	P-O5'-C5'	-5.54	112.59	120.90
1	B	1687	G	C5'-C4'-C3'	5.54	124.31	116.00
1	B	1941	C	C5'-C4'-O4'	-5.54	101.50	109.80
1	B	801	G	O5'-C5'-C4'	5.54	119.80	111.50
1	B	2130	U	O3'-P-O5'	-5.53	95.70	104.00
1	B	878	A	P-O3'-C3'	5.53	128.50	120.20
1	B	675	A	O5'-C5'-C4'	5.53	119.79	111.50
1	B	1476	U	C5'-C4'-C3'	5.53	124.29	116.00
1	B	2892	G	O3'-P-O5'	-5.53	95.71	104.00
1	B	563	A	C5'-C4'-C3'	5.53	124.29	116.00
1	B	1390	U	P-O3'-C3'	-5.53	111.91	120.20
1	B	2130	U	C5'-C4'-O4'	5.53	118.09	109.80
1	B	2835	A	C2'-C3'-O3'	5.53	121.99	113.70
1	B	477	A	O3'-P-O5'	5.53	112.29	104.00
1	B	2117	A	C5'-C4'-O4'	5.53	118.09	109.80
1	B	2178	C	O3'-P-O5'	-5.52	95.72	104.00
1	B	322	A	C4'-C3'-O3'	5.52	121.28	113.00
1	B	960	A	C4'-C3'-O3'	5.52	121.28	113.00
1	B	914	G	OP2-P-O3'	5.52	124.55	108.00
1	B	1294	U	OP2-P-O3'	-5.52	91.45	108.00
1	B	2051	A	C5'-C4'-O4'	5.52	118.07	109.80
1	B	491	G	O3'-P-O5'	-5.51	95.73	104.00
1	B	2685	G	C2'-C3'-O3'	5.51	121.97	113.70
1	B	1023	U	P-O3'-C3'	5.51	128.47	120.20
1	B	294	A	O5'-P-OP2	5.51	124.53	108.00
1	B	1094	U	P-O5'-C5'	-5.51	112.63	120.90
1	B	1110	G	C5'-C4'-O4'	5.51	118.07	109.80
1	B	1756	G	C5'-C4'-C3'	5.51	124.27	116.00
1	B	1301	A	P-O3'-C3'	5.51	128.47	120.20
1	B	1701	A	C2'-C3'-O3'	5.51	121.97	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1944	U	O5'-C5'-C4'	5.51	127.03	110.50
1	B	625	G	C5'-C4'-C3'	5.51	124.26	116.00
1	B	1680	U	C5'-C4'-O4'	5.51	118.06	109.80
1	B	227	A	C5'-C4'-O4'	5.51	118.06	109.80
1	B	776	G	OP2-P-O3'	5.51	124.52	108.00
1	B	2330	G	OP2-P-O3'	5.51	124.52	108.00
1	B	117	G	O5'-C5'-C4'	5.50	119.76	111.50
1	B	575	A	O3'-P-O5'	-5.50	95.74	104.00
1	B	878	A	O5'-C5'-C4'	5.50	119.76	111.50
1	B	2859	G	P-O3'-C3'	-5.50	111.94	120.20
1	B	2350	C	P-O3'-C3'	5.50	128.45	120.20
1	B	1089	A	P-O5'-C5'	-5.50	112.65	120.90
1	B	1122	G	C4'-C3'-O3'	5.50	121.25	113.00
1	B	240	C	O5'-P-OP1	-5.50	91.51	108.00
1	B	1288	G	OP1-P-O3'	5.50	124.49	108.00
1	B	1633	G	C2'-C3'-O3'	5.50	121.94	113.70
1	B	2734	A	C2'-C3'-O3'	-5.50	105.45	113.70
1	B	248	G	C5'-C4'-C3'	5.50	124.24	116.00
1	B	374	A	P-O5'-C5'	5.50	129.14	120.90
1	B	1606	C	C2'-C3'-O3'	5.50	121.94	113.70
1	B	2376	A	C5'-C4'-O4'	5.49	118.03	109.80
1	B	100	U	C4'-C3'-O3'	5.49	121.23	113.00
1	B	277	G	OP1-P-O3'	5.49	124.47	108.00
1	B	2308	G	P-O3'-C3'	-5.49	111.97	120.20
1	B	2493	U	O5'-C5'-C4'	-5.49	103.27	111.50
1	B	111	A	C5'-C4'-O4'	5.49	118.03	109.80
1	B	920	A	C5'-C4'-C3'	5.49	124.23	116.00
1	B	1493	C	P-O5'-C5'	5.48	129.12	120.90
1	B	613	A	C5'-C4'-C3'	5.48	124.22	116.00
1	B	1493	C	C2'-C3'-O3'	5.48	121.92	113.70
1	B	1236	G	O3'-P-O5'	-5.48	95.79	104.00
1	B	2429	G	O5'-C5'-C4'	5.48	119.71	111.50
1	B	1125	G	P-O3'-C3'	5.47	128.41	120.20
1	B	1927	A	C5'-C4'-O4'	-5.47	98.56	109.50
1	B	1126	A	P-O3'-C3'	5.47	128.41	120.20
1	B	2375	G	C5'-C4'-O4'	5.47	118.01	109.80
1	B	1674	G	C5'-C4'-O4'	5.47	118.00	109.80
1	B	2610	C	O5'-C5'-C4'	5.47	119.70	111.50
1	B	2157	G	O3'-P-O5'	-5.47	95.80	104.00
1	B	1275	A	C4'-C3'-O3'	5.47	121.20	113.00
1	B	2431	U	C5'-C4'-C3'	5.47	124.20	116.00
1	B	310	A	OP2-P-O3'	-5.46	91.61	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1516	G	OP1-P-O3'	5.46	124.39	108.00
1	B	2757	A	C2'-C3'-O3'	5.46	121.89	113.70
1	B	2164	C	C2'-C3'-O3'	5.46	121.89	113.70
1	B	2561	U	O3'-P-O5'	5.46	112.19	104.00
1	B	1196	C	C5'-C4'-O4'	5.46	117.98	109.80
1	B	1460	U	O5'-C5'-C4'	5.46	119.68	111.50
1	B	1773	A	C4'-C3'-O3'	5.45	121.18	113.00
1	B	2719	G	C2'-C3'-O3'	5.45	121.88	113.70
1	B	125	A	P-O5'-C5'	5.45	129.08	120.90
1	B	471	A	C2'-C3'-O3'	5.45	121.88	113.70
1	B	1047	G	C2'-C3'-O3'	5.45	121.88	113.70
1	B	1363	C	O3'-P-O5'	-5.45	95.82	104.00
1	B	2271	G	C5'-C4'-O4'	5.45	117.98	109.80
1	B	1272	A	C5'-C4'-C3'	5.45	124.17	116.00
1	B	2447	G	O3'-P-O5'	5.45	112.17	104.00
1	B	1918	A	C5'-C4'-O4'	5.45	117.97	109.80
1	B	2477	U	O5'-C5'-C4'	5.44	119.67	111.50
1	B	469	G	C2'-C3'-O3'	5.44	121.86	113.70
1	B	1925	C	C2'-C3'-O3'	5.44	117.67	109.50
1	B	1090	A	C3'-C2'-C1'	-5.44	95.86	101.30
1	B	646	U	O5'-C5'-C4'	5.43	119.65	111.50
1	B	1267	U	C2'-C3'-O3'	5.43	121.85	113.70
1	B	1625	C	P-O3'-C3'	5.43	128.34	120.20
1	B	1383	A	O5'-C5'-C4'	5.43	119.64	111.50
1	B	2273	A	C2'-C3'-O3'	5.43	121.84	113.70
1	B	47	C	C2'-C3'-O3'	5.42	121.84	113.70
1	B	2237	G	C5'-C4'-O4'	5.42	117.94	109.80
1	B	297	G	P-O3'-C3'	-5.42	112.07	120.20
1	B	1022	G	C5'-C4'-C3'	-5.42	107.87	116.00
1	B	1029	A	O3'-P-O5'	5.42	112.13	104.00
1	B	1378	A	O5'-C5'-C4'	-5.42	103.37	111.50
1	B	1523	U	C5'-C4'-C3'	5.42	124.13	116.00
1	B	751	A	C5'-C4'-O4'	5.42	117.93	109.80
1	B	2272	U	C5'-C4'-C3'	5.42	124.13	116.00
1	B	1288	G	C5'-C4'-O4'	5.42	117.93	109.80
1	B	1543	G	C5'-C4'-O4'	5.42	117.93	109.80
1	B	933	A	P-O3'-C3'	5.42	128.32	120.20
1	B	1111	A	C2'-C3'-O3'	-5.41	105.58	113.70
1	B	2005	A	C2'-C3'-O3'	5.41	121.82	113.70
1	B	324	A	OP2-P-O3'	5.41	124.23	108.00
1	B	614	A	C5'-C4'-O4'	5.41	117.92	109.80
1	B	1235	G	C4'-C3'-O3'	5.41	121.12	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	685	A	C2'-C3'-O3'	-5.41	105.58	113.70
1	B	686	U	C5'-C4'-C3'	5.41	124.12	116.00
1	B	1250	G	O5'-C5'-C4'	5.41	119.61	111.50
1	B	1453	A	P-O5'-C5'	-5.41	112.78	120.90
1	B	2212	A	P-O3'-C3'	-5.41	112.08	120.20
1	B	645	C	C4'-C3'-O3'	5.40	121.10	113.00
1	B	941	A	P-O3'-C3'	5.40	128.30	120.20
1	B	435	C	C5'-C4'-O4'	5.40	117.90	109.80
1	B	64	A	C4'-C3'-O3'	5.39	121.09	113.00
1	B	652	U	C5'-C4'-O4'	-5.39	101.71	109.80
1	B	1141	U	C5'-C4'-C3'	5.39	124.09	116.00
1	B	2684	U	O5'-C5'-C4'	5.39	119.59	111.50
1	B	1299	G	O5'-C5'-C4'	5.39	119.59	111.50
1	B	1537	G	P-O5'-C5'	5.39	128.99	120.90
1	B	33	C	C5'-C4'-C3'	5.39	124.08	116.00
1	B	2031	A	C5'-C4'-O4'	5.39	117.88	109.80
1	B	512	G	C4'-C3'-O3'	5.39	121.08	113.00
1	B	1209	U	O3'-P-O5'	-5.39	95.92	104.00
1	B	1223	G	P-O3'-C3'	-5.39	112.12	120.20
1	B	2355	G	O3'-P-O5'	-5.39	95.92	104.00
1	B	616	A	C5'-C4'-C3'	5.38	124.08	116.00
1	B	1773	A	C2'-C3'-O3'	5.38	121.78	113.70
1	B	2893	A	C5'-C4'-O4'	5.38	117.88	109.80
1	B	465	G	C2'-C3'-O3'	5.38	121.77	113.70
1	B	569	U	C5'-C4'-O4'	5.38	117.87	109.80
1	B	140	C	O5'-C5'-C4'	5.38	119.57	111.50
1	B	164	C	C2'-C3'-O3'	5.38	121.77	113.70
1	B	1101	U	O5'-P-OP2	5.37	124.12	108.00
1	B	1597	A	P-O3'-C3'	-5.37	112.14	120.20
1	B	2131	U	P-O5'-C5'	5.37	128.96	120.90
1	B	247	G	C5'-C4'-O4'	5.37	117.86	109.80
1	B	752	A	OP2-P-O3'	-5.37	91.90	108.00
1	B	784	G	O5'-C5'-C4'	5.37	119.55	111.50
1	B	1300	G	O5'-C5'-C4'	5.37	119.55	111.50
1	B	2454	G	C2'-C3'-O3'	-5.37	105.65	113.70
1	B	2365	G	C2'-C3'-O3'	5.36	121.74	113.70
1	B	1048	A	O3'-P-O5'	-5.36	95.96	104.00
1	B	1736	U	O3'-P-O5'	-5.36	95.96	104.00
1	B	704	G	C2'-C3'-O3'	5.36	121.74	113.70
1	B	2170	A	C5'-C4'-O4'	5.36	117.84	109.80
1	B	197	A	O5'-C5'-C4'	5.36	119.53	111.50
1	B	616	A	P-O3'-C3'	-5.36	112.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1266	G	C2'-C3'-O3'	5.36	121.73	113.70
1	B	1007	C	C5'-C4'-C3'	5.35	124.03	116.00
1	B	1913	A	C5'-C4'-O4'	5.35	117.82	109.80
1	B	2391	G	C2'-C3'-O3'	5.35	121.72	113.70
1	B	983	A	C5'-C4'-O4'	5.35	117.82	109.80
1	B	1058	U	N1-C1'-C2'	5.35	120.02	112.00
1	B	2705	A	OP2-P-O3'	5.35	124.04	108.00
1	B	2032	G	P-O3'-C3'	-5.34	112.19	120.20
1	B	1514	G	C5'-C4'-C3'	5.34	124.01	116.00
1	B	2810	A	C2'-C3'-O3'	5.34	121.71	113.70
1	B	280	U	C2'-C3'-O3'	5.34	121.71	113.70
1	B	2702	G	C2'-C3'-O3'	5.34	121.71	113.70
1	B	2776	A	C5'-C4'-C3'	5.34	124.01	116.00
1	B	1677	A	OP1-P-O3'	-5.33	92.00	108.00
1	B	300	A	O3'-P-O5'	-5.33	96.00	104.00
1	B	2356	U	P-O3'-C3'	-5.33	112.21	120.20
1	B	2424	C	P-O3'-C3'	5.33	128.19	120.20
1	B	910	A	O5'-C5'-C4'	5.33	119.49	111.50
1	B	2845	U	C2'-C3'-O3'	5.33	121.69	113.70
1	B	577	G	C5'-C4'-C3'	5.33	123.99	116.00
1	B	1697	G	C4'-C3'-O3'	5.33	120.99	113.00
1	B	2370	G	O3'-P-O5'	-5.33	96.01	104.00
1	B	99	U	C5'-C4'-C3'	5.32	123.98	116.00
1	B	870	U	O3'-P-O5'	-5.32	96.02	104.00
1	B	1365	A	C2'-C3'-O3'	5.32	121.68	113.70
1	B	178	G	C2'-C3'-O3'	5.32	121.67	113.70
1	B	1214	A	C5'-C4'-C3'	5.32	123.97	116.00
1	B	1969	A	C5'-C4'-C3'	5.32	123.97	116.00
1	B	2410	G	O3'-P-O5'	-5.32	96.03	104.00
1	B	1759	A	C5'-C4'-O4'	5.31	117.76	109.80
1	B	547	A	C5'-C4'-O4'	5.31	117.76	109.80
1	B	2051	A	O3'-P-O5'	-5.31	96.04	104.00
1	B	857	G	C2'-C3'-O3'	5.30	121.66	113.70
1	B	926	G	OP2-P-O3'	5.30	123.91	108.00
1	B	1210	G	C5'-C4'-C3'	5.30	123.95	116.00
1	B	889	C	C5'-C4'-O4'	5.30	117.75	109.80
1	B	25	U	P-O3'-C3'	-5.30	112.25	120.20
1	B	2283	C	C4'-C3'-O3'	5.30	120.94	113.00
1	B	1061	U	C3'-C2'-C1'	-5.29	96.20	101.50
1	B	1341	G	C4'-C3'-O3'	5.29	120.94	113.00
1	B	490	C	C5'-C4'-O4'	5.29	117.74	109.80
1	B	510	C	P-O5'-C5'	5.29	128.84	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2034	U	P-O3'-C3'	-5.29	112.27	120.20
1	B	2608	G	P-O5'-C5'	5.29	128.84	120.90
1	B	733	G	C2'-C3'-O3'	5.29	121.63	113.70
1	B	26	G	P-O3'-C3'	5.29	128.13	120.20
1	B	1559	U	C2'-C3'-O3'	5.29	121.63	113.70
1	B	1700	A	C5'-C4'-C3'	5.29	123.93	116.00
1	B	2440	C	C5'-C4'-O4'	5.29	117.73	109.80
1	B	244	A	P-O3'-C3'	5.29	128.13	120.20
1	B	422	A	C5'-C4'-C3'	5.29	123.93	116.00
1	B	1455	G	O5'-C5'-C4'	5.29	119.43	111.50
1	B	1951	U	O5'-C5'-C4'	5.29	119.63	111.70
1	B	2082	A	OP2-P-O3'	5.28	123.85	108.00
1	B	2031	A	C5'-C4'-C3'	5.28	123.92	116.00
1	B	2531	A	P-O3'-C3'	-5.28	112.28	120.20
1	B	1670	C	C5'-C4'-O4'	5.28	117.72	109.80
1	B	2014	A	O3'-P-O5'	-5.28	96.08	104.00
1	B	2320	U	C5'-C4'-O4'	5.28	117.72	109.80
1	B	2324	U	P-O3'-C3'	-5.28	112.28	120.20
1	B	2375	G	C5'-C4'-C3'	5.28	123.92	116.00
1	B	2702	G	C5'-C4'-C3'	5.28	123.92	116.00
1	B	2226	C	O3'-P-O5'	-5.28	96.08	104.00
1	B	2103	C	OP1-P-O3'	5.28	123.83	108.00
1	B	2258	C	P-O3'-C3'	5.28	128.11	120.20
1	B	2764	A	C2'-C3'-O3'	5.28	121.61	113.70
1	B	1740	G	C5'-C4'-C3'	5.27	123.91	116.00
1	B	1774	C	P-O3'-C3'	-5.27	112.29	120.20
1	B	1781	U	O3'-P-O5'	-5.27	96.09	104.00
1	B	2822	G	C5'-C4'-C3'	5.27	123.91	116.00
1	B	1728	C	C5'-C4'-C3'	5.27	123.90	116.00
1	B	2629	U	C2'-C3'-O3'	5.27	121.60	113.70
1	B	2850	A	C2'-C3'-O3'	5.27	121.60	113.70
1	B	124	G	C2'-C3'-O3'	5.27	121.60	113.70
1	B	748	G	C5'-C4'-C3'	-5.27	108.10	116.00
1	B	1116	G	OP1-P-O3'	5.27	123.80	108.00
1	B	2533	U	P-O3'-C3'	-5.26	112.30	120.20
1	B	632	A	P-O5'-C5'	5.26	128.79	120.90
1	B	2031	A	P-O3'-C3'	-5.26	112.31	120.20
1	B	2005	A	C5'-C4'-O4'	5.26	117.69	109.80
1	B	2893	A	C5'-C4'-C3'	5.26	123.89	116.00
1	B	2319	G	O5'-C5'-C4'	5.26	119.39	111.50
1	B	370	G	C5'-C4'-C3'	5.26	123.89	116.00
1	B	263	G	C5'-C4'-O4'	-5.26	101.92	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1980	G	P-O3'-C3'	5.26	128.09	120.20
1	B	2584	U	C5'-C4'-O4'	5.26	117.68	109.80
1	B	829	A	C5'-C4'-C3'	5.25	123.88	116.00
1	B	830	G	C4'-C3'-O3'	-5.25	105.12	113.00
1	B	346	A	C5'-C4'-C3'	5.25	123.88	116.00
1	B	1069	A	O5'-C5'-C4'	-5.25	103.82	111.70
1	B	2033	A	C5'-C4'-C3'	5.25	123.88	116.00
1	B	2806	C	O3'-P-O5'	-5.25	96.12	104.00
1	B	1935	G	P-O5'-C5'	5.25	128.78	120.90
1	B	1706	C	OP1-P-O3'	5.25	123.75	108.00
1	B	2110	G	C2'-C3'-O3'	5.25	121.57	113.70
1	B	2326	C	C5'-C4'-C3'	5.25	123.87	116.00
1	B	275	C	C4'-C3'-O3'	5.25	120.87	113.00
1	B	2238	G	C5'-C4'-C3'	5.25	123.87	116.00
1	B	2346	A	C2'-C3'-O3'	5.24	121.56	113.70
1	B	1024	G	O3'-P-O5'	-5.24	96.14	104.00
1	B	1681	G	OP1-P-O3'	5.24	123.72	108.00
1	B	2310	C	C5'-C4'-C3'	5.24	123.86	116.00
1	B	2610	C	P-O3'-C3'	-5.24	112.34	120.20
1	B	244	A	C5'-C4'-O4'	5.24	117.66	109.80
1	B	469	G	C4'-C3'-O3'	5.24	120.86	113.00
1	B	2358	A	C4'-C3'-O3'	5.24	120.86	113.00
1	B	524	G	P-O3'-C3'	5.24	128.05	120.20
1	B	637	A	C5'-C4'-C3'	5.24	123.85	116.00
1	B	1040	A	C5'-C4'-C3'	5.24	123.85	116.00
1	B	1439	A	O3'-P-O5'	5.24	111.85	104.00
1	B	218	A	P-O3'-C3'	-5.23	112.35	120.20
1	B	226	A	C5'-C4'-O4'	5.23	117.64	109.80
1	B	846	U	C5'-C4'-O4'	5.23	117.64	109.80
1	B	1560	G	C2'-C3'-O3'	5.23	121.54	113.70
1	B	1851	U	P-O5'-C5'	5.23	128.74	120.90
1	B	2244	U	C5'-C4'-O4'	5.23	117.64	109.80
1	B	943	A	C2'-C3'-O3'	5.23	121.54	113.70
1	B	2081	U	O3'-P-O5'	-5.23	96.16	104.00
1	B	15	G	C5'-C4'-O4'	-5.22	101.97	109.80
1	B	499	U	C5'-C4'-C3'	5.22	123.84	116.00
1	B	481	G	C5'-C4'-O4'	5.22	117.63	109.80
1	B	1967	C	O3'-P-O5'	5.22	111.83	104.00
1	B	1109	C	P-O5'-C5'	5.22	128.73	120.90
1	B	1189	A	O5'-C5'-C4'	5.22	119.32	111.50
1	B	1514	G	P-O5'-C5'	5.22	128.72	120.90
1	B	2170	A	P-O3'-C3'	-5.22	112.38	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1009	A	C5'-C4'-O4'	5.21	117.62	109.80
1	B	1154	G	P-O5'-C5'	5.21	128.72	120.90
1	B	1133	A	O3'-P-O5'	5.21	111.82	104.00
1	B	177	G	C4'-C3'-O3'	5.21	120.81	113.00
1	B	1761	C	O3'-P-O5'	-5.21	96.19	104.00
1	B	2013	A	O5'-C5'-C4'	5.21	119.51	111.70
1	B	1050	A	OP2-P-O3'	5.20	123.61	108.00
1	B	1583	A	O5'-C5'-C4'	5.20	119.31	111.50
1	B	2377	A	P-O3'-C3'	5.20	128.01	120.20
1	B	890	C	O3'-P-O5'	-5.20	96.20	104.00
1	B	1397	U	C4'-C3'-O3'	5.20	120.80	113.00
1	B	1918	A	C5'-C4'-C3'	5.20	123.80	116.00
1	B	863	A	P-O3'-C3'	-5.20	112.40	120.20
1	B	2586	U	C5'-C4'-C3'	5.20	123.80	116.00
1	B	383	C	C5'-C4'-O4'	5.20	117.60	109.80
1	B	1756	G	O3'-P-O5'	-5.20	96.20	104.00
1	B	2502	G	C5'-C4'-C3'	5.20	123.80	116.00
1	B	45	G	P-O3'-C3'	-5.20	112.41	120.20
1	B	401	A	C4'-C3'-O3'	5.20	120.79	113.00
1	B	717	C	C5'-C4'-O4'	5.20	117.59	109.80
1	B	1092	C	N1-C1'-C2'	5.20	119.79	112.00
1	B	1853	A	C2'-C3'-O3'	-5.20	105.91	113.70
1	B	1283	G	C4'-C3'-O3'	5.19	120.79	113.00
1	B	2572	A	P-O5'-C5'	5.19	128.69	120.90
1	B	247	G	C5'-C4'-C3'	5.19	123.79	116.00
1	B	716	A	C5'-C4'-O4'	5.19	117.58	109.80
1	B	1312	U	C5'-C4'-O4'	-5.19	102.01	109.80
1	B	1800	C	O3'-P-O5'	-5.19	96.21	104.00
1	B	140	C	C5'-C4'-C3'	5.19	123.78	116.00
1	B	2845	U	P-O5'-C5'	5.18	128.68	120.90
1	B	429	A	C2'-C3'-O3'	5.18	124.16	113.80
1	B	789	A	C5'-C4'-C3'	5.18	123.77	116.00
1	B	2376	A	C2'-C3'-O3'	5.18	121.47	113.70
1	B	1583	A	P-O5'-C5'	-5.18	113.13	120.90
1	B	2722	G	C4'-C3'-O3'	-5.18	105.23	113.00
1	B	1272	A	C4'-C3'-O3'	5.18	120.77	113.00
1	B	1395	A	O5'-C5'-C4'	5.18	119.27	111.50
1	B	1469	A	O3'-P-O5'	-5.18	96.24	104.00
1	B	1912	A	O5'-C5'-C4'	5.18	119.26	111.50
1	B	2763	G	C4'-C3'-O3'	5.18	120.76	113.00
1	B	788	A	C2'-C3'-O3'	5.17	121.46	113.70
1	B	2224	G	P-O3'-C3'	5.17	127.96	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2809	A	C4'-C3'-O3'	-5.17	105.24	113.00
1	B	250	G	C5'-C4'-C3'	5.17	123.76	116.00
1	B	1477	A	O5'-C5'-C4'	5.17	119.25	111.50
1	B	1264	A	C2'-C3'-O3'	5.17	121.45	113.70
1	B	1061	U	O4'-C1'-C2'	5.17	110.97	105.80
1	B	920	A	O5'-C5'-C4'	5.17	119.25	111.50
1	B	1076	C	C5'-C4'-C3'	-5.17	108.25	116.00
1	B	1371	G	C2'-C3'-O3'	5.17	121.45	113.70
1	B	632	A	C2'-C3'-O3'	5.16	121.44	113.70
1	B	2613	U	C2'-C3'-O3'	5.16	121.44	113.70
1	B	877	A	O5'-C5'-C4'	5.16	119.24	111.50
1	B	1130	U	C5'-C4'-O4'	5.16	117.54	109.80
1	B	2478	A	C4'-C3'-O3'	5.16	120.74	113.00
1	B	1932	A	O3'-P-O5'	-5.16	96.26	104.00
1	B	2750	A	C2'-C3'-O3'	5.16	121.44	113.70
1	B	249	C	C5'-C4'-O4'	5.16	117.53	109.80
1	B	251	A	P-O3'-C3'	-5.16	112.47	120.20
1	B	1535	A	C5'-C4'-O4'	5.16	117.53	109.80
1	B	2755	C	C5'-C4'-O4'	5.16	117.53	109.80
1	B	339	U	O3'-P-O5'	-5.15	96.27	104.00
1	B	2884	U	O5'-C5'-C4'	5.15	119.23	111.50
1	B	2059	A	C4'-C3'-O3'	5.15	120.72	113.00
1	B	686	U	P-O3'-C3'	5.15	127.92	120.20
1	B	2448	A	C4'-C3'-O3'	5.15	120.72	113.00
1	B	11	C	O3'-P-O5'	5.15	111.72	104.00
1	B	276	U	O5'-P-OP1	-5.15	92.56	108.00
1	B	1311	G	C5'-C4'-O4'	-5.15	102.08	109.80
1	B	2162	G	P-O3'-C3'	-5.15	112.48	120.20
1	B	472	A	C5'-C4'-O4'	5.14	117.52	109.80
1	B	2273	A	C5'-C4'-C3'	5.14	123.72	116.00
1	B	602	A	C5'-C4'-O4'	-5.14	102.09	109.80
1	B	2405	G	C5'-C4'-O4'	-5.14	102.08	109.80
1	B	1236	G	OP1-P-O3'	5.14	123.42	108.00
1	B	1268	A	C4'-C3'-O3'	-5.14	105.29	113.00
1	B	2346	A	OP1-P-O3'	5.14	123.42	108.00
1	B	446	G	C5'-C4'-O4'	5.14	117.51	109.80
1	B	1097	U	C1'-O4'-C4'	-5.14	104.76	109.90
1	B	1890	A	C4'-C3'-O3'	5.14	120.70	113.00
1	B	570	G	O5'-C5'-C4'	-5.13	103.80	111.50
1	B	2275	C	OP1-P-O3'	5.13	123.40	108.00
1	B	1363	C	P-O3'-C3'	-5.13	112.50	120.20
1	B	2361	G	C5'-C4'-O4'	5.13	117.50	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1202	G	P-O3'-C3'	5.13	127.90	120.20
1	B	2500	U	C4'-C3'-O3'	-5.13	105.30	113.00
1	B	612	G	P-O5'-C5'	5.13	128.59	120.90
1	B	2375	G	C4'-C3'-O3'	5.13	120.69	113.00
1	B	984	A	OP1-P-O3'	5.13	123.39	108.00
1	B	990	A	O5'-C5'-C4'	5.13	119.19	111.50
1	B	890	C	C5'-C4'-C3'	5.13	123.69	116.00
1	B	222	A	C5'-C4'-O4'	5.12	117.49	109.80
1	B	1109	C	C2'-C3'-O3'	5.12	121.38	113.70
1	B	514	A	C5'-C4'-C3'	5.12	123.68	116.00
1	B	1701	A	O3'-P-O5'	-5.12	96.32	104.00
1	B	1857	G	O3'-P-O5'	5.12	111.68	104.00
1	B	807	U	C2'-C3'-O3'	5.12	121.38	113.70
1	B	1552	A	C4'-C3'-O3'	-5.12	105.32	113.00
1	B	89	A	O3'-P-O5'	5.12	111.68	104.00
1	B	748	G	P-O3'-C3'	5.12	127.88	120.20
1	B	2020	A	C5'-C4'-O4'	5.12	116.78	109.10
1	B	2163	A	C5'-C4'-O4'	5.12	117.48	109.80
1	B	2553	G	O5'-C5'-C4'	5.12	119.18	111.50
1	B	249	C	C5'-C4'-C3'	5.12	123.67	116.00
1	B	1453	A	C2'-C3'-O3'	5.12	121.37	113.70
1	B	981	A	C5'-C4'-C3'	5.11	123.67	116.00
1	B	1758	U	C4'-C3'-O3'	5.11	120.67	113.00
1	B	1883	U	P-O3'-C3'	5.11	127.87	120.20
1	B	2587	A	C2'-C3'-O3'	5.11	121.37	113.70
1	B	1815	A	C4'-C3'-O3'	-5.11	105.33	113.00
1	B	1584	U	C5'-C4'-O4'	5.11	117.46	109.80
1	B	435	C	O5'-C5'-C4'	-5.10	103.84	111.50
1	B	1817	G	O5'-C5'-C4'	5.10	119.16	111.50
1	B	232	G	O5'-P-OP1	5.10	123.31	108.00
1	B	615	U	C5'-C4'-O4'	5.10	117.45	109.80
1	B	73	A	OP1-P-O3'	5.10	123.30	108.00
1	B	2185	U	P-O3'-C3'	5.10	127.85	120.20
1	B	127	A	O5'-C5'-C4'	5.10	119.35	111.70
1	B	1039	A	C4'-C3'-O3'	5.10	120.65	113.00
1	B	751	A	C5'-C4'-C3'	5.10	123.64	116.00
1	B	374	A	C2'-C3'-O3'	-5.09	106.06	113.70
1	B	421	C	O3'-P-O5'	-5.09	96.36	104.00
1	B	1610	A	C5'-C4'-O4'	5.09	117.44	109.80
1	B	1890	A	O3'-P-O5'	-5.09	96.36	104.00
1	B	2270	A	C5'-C4'-O4'	5.09	117.44	109.80
1	B	1817	G	P-O5'-C5'	5.09	128.53	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2297	A	OP2-P-O3'	-5.09	92.73	108.00
1	B	2016	U	C5'-C4'-O4'	5.09	117.43	109.80
1	B	1367	A	C5'-C4'-C3'	5.09	123.63	116.00
1	B	1613	G	C2'-C3'-O3'	5.09	121.33	113.70
1	B	1568	G	C5'-C4'-O4'	5.08	117.43	109.80
1	B	1731	G	C5'-C4'-C3'	5.08	123.63	116.00
1	B	2130	U	C5'-C4'-C3'	5.08	123.63	116.00
1	B	277	G	O3'-P-O5'	-5.08	96.37	104.00
1	B	448	U	P-O5'-C5'	-5.08	113.28	120.90
1	B	636	G	O5'-C5'-C4'	5.08	119.12	111.50
1	B	887	U	C5'-C4'-C3'	5.08	123.62	116.00
1	B	1745	A	C2'-C3'-O3'	-5.08	106.08	113.70
1	B	2364	C	O3'-P-O5'	-5.08	96.37	104.00
1	B	674	G	C5'-C4'-O4'	-5.08	102.18	109.80
1	B	629	G	O3'-P-O5'	-5.08	96.38	104.00
1	B	163	C	C5'-C4'-O4'	5.08	117.42	109.80
1	B	1101	U	OP1-P-OP2	-5.08	104.36	119.60
1	B	1373	A	C4'-C3'-O3'	5.08	120.62	113.00
1	B	1731	G	P-O3'-C3'	-5.08	112.58	120.20
1	B	1969	A	O5'-C5'-C4'	5.08	119.12	111.50
1	B	871	U	C5'-C4'-C3'	5.08	123.62	116.00
1	B	1981	A	O3'-P-O5'	-5.08	96.38	104.00
1	B	2253	G	OP1-P-O3'	5.08	123.23	108.00
1	B	1226	A	C5'-C4'-O4'	5.08	117.41	109.80
1	B	2320	U	OP1-P-O3'	5.08	123.23	108.00
1	B	2392	A	C4'-C3'-O3'	5.08	120.61	113.00
1	B	180	G	C2'-C3'-O3'	5.07	121.31	113.70
1	B	1664	A	C4'-C3'-O3'	-5.07	105.39	113.00
1	B	1722	A	P-O3'-C3'	-5.07	112.59	120.20
1	B	359	G	O3'-P-O5'	-5.07	96.39	104.00
1	B	2555	U	P-O3'-C3'	-5.07	112.59	120.20
1	B	181	A	C2'-C3'-O3'	5.07	121.30	113.70
1	B	1392	A	P-O3'-C3'	-5.07	112.59	120.20
1	B	1721	G	P-O3'-C3'	5.07	127.81	120.20
1	B	1853	A	O5'-P-OP1	5.07	123.21	108.00
1	B	2028	U	P-O3'-C3'	-5.07	112.60	120.20
1	B	430	A	P-O3'-C3'	5.07	127.80	120.20
1	B	450	G	C2'-C3'-O3'	5.07	121.30	113.70
1	B	820	A	C5'-C4'-C3'	5.07	123.60	116.00
1	B	63	A	C5'-C4'-C3'	5.06	123.59	116.00
1	B	373	U	P-O3'-C3'	-5.06	112.61	120.20
1	B	2198	A	C5'-C4'-O4'	5.06	117.39	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1978	A	C4'-C3'-O3'	5.06	120.59	113.00
1	B	1391	U	C4'-C3'-O3'	5.06	120.58	113.00
1	B	1558	C	C5'-C4'-C3'	5.06	123.58	116.00
1	B	1248	G	C4'-C3'-O3'	-5.05	105.42	113.00
1	B	1859	U	OP1-P-O3'	-5.05	92.84	108.00
1	B	1366	A	C4'-C3'-O3'	5.05	120.58	113.00
1	B	1780	A	P-O5'-C5'	-5.05	113.32	120.90
1	B	2356	U	C5'-C4'-O4'	5.05	117.38	109.80
1	B	2457	U	P-O3'-C3'	5.05	127.78	120.20
1	B	10	A	O3'-P-O5'	-5.05	96.42	104.00
1	B	33	C	C2'-C3'-O3'	5.05	121.27	113.70
1	B	566	U	O3'-P-O5'	5.05	111.57	104.00
1	B	478	A	O3'-P-O5'	5.05	111.57	104.00
1	B	1693	U	C5'-C4'-O4'	5.05	117.37	109.80
1	B	2015	A	C4'-C3'-O3'	5.05	120.57	113.00
1	B	545	U	C2'-C3'-O3'	5.04	121.26	113.70
1	B	1069	A	P-O5'-C5'	-5.04	113.33	120.90
1	B	371	A	P-O3'-C3'	-5.04	112.64	120.20
1	B	537	G	C5'-C4'-C3'	5.04	123.56	116.00
1	B	2687	U	P-O3'-C3'	-5.04	112.64	120.20
1	B	1891	G	C5'-C4'-O4'	5.04	117.36	109.80
1	B	2833	U	P-O3'-C3'	-5.04	112.64	120.20
1	B	1757	A	C5'-C4'-C3'	5.04	123.56	116.00
1	B	2224	G	O3'-P-O5'	-5.04	96.44	104.00
1	B	2602	A	OP2-P-O3'	5.04	123.11	108.00
1	B	895	U	P-O3'-C3'	5.04	127.75	120.20
1	B	2125	G	C5'-C4'-O4'	5.04	117.35	109.80
1	B	383	C	C5'-C4'-C3'	5.03	123.55	116.00
1	B	546	U	C5'-C4'-C3'	5.03	123.55	116.00
1	B	2041	U	O3'-P-O5'	5.03	111.55	104.00
1	B	1094	U	P-O3'-C3'	5.03	127.75	120.20
1	B	1605	C	C5'-C4'-C3'	5.03	123.54	116.00
1	B	2245	U	OP2-P-O3'	5.03	123.09	108.00
1	B	2377	A	O3'-P-O5'	-5.03	96.46	104.00
1	B	362	A	OP2-P-O3'	-5.03	92.92	108.00
1	B	1096	A	C2'-C3'-O3'	-5.03	106.16	113.70
1	B	2857	G	C5'-C4'-C3'	5.03	123.54	116.00
1	B	1866	A	O5'-P-OP1	5.02	123.07	108.00
1	B	2157	G	P-O3'-C3'	-5.02	112.67	120.20
1	B	2454	G	OP2-P-O3'	5.02	123.06	108.00
1	B	1057	A	C5'-C4'-C3'	-5.02	108.47	116.00
1	B	862	G	O3'-P-O5'	-5.01	96.49	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2366	A	OP2-P-O3'	5.01	123.03	108.00
1	B	956	G	P-O3'-C3'	-5.01	112.69	120.20
1	B	2134	A	P-O5'-C5'	5.01	128.41	120.90
1	B	2382	G	OP2-P-O3'	-5.01	92.98	108.00
1	B	2586	U	O3'-P-O5'	-5.00	96.49	104.00
1	B	672	C	O3'-P-O5'	-5.00	96.50	104.00
1	B	1668	A	C4'-C3'-O3'	-5.00	105.50	113.00

All (466) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	B	10	A	C4'
1	B	12	U	C4'
1	B	15	G	C4'
1	B	27	G	C4',C3'
1	B	28	A	C4'
1	B	34	U	C3',C4'
1	B	47	C	C4',C3'
1	B	53	A	C4',C3'
1	B	62	U	C4',C3'
1	B	73	A	C3',C4'
1	B	92	U	C4'
1	B	98	G	C4',C3'
1	B	100	U	C4'
1	B	111	A	C4'
1	B	112	U	C4',C3'
1	B	113	U	C4',C3'
1	B	119	A	C4',C3'
1	B	120	U	C4',C3'
1	B	126	A	C4',C3'
1	B	127	A	C1',C4',C3'
1	B	138	U	C4'
1	B	139	U	C3'
1	B	177	G	C4',C3'
1	B	180	G	C3'
1	B	181	A	C4'
1	B	190	A	C4'
1	B	213	A	C3',C4'
1	B	215	G	C4',C3'
1	B	220	G	C3'
1	B	221	A	C4'
1	B	227	A	C4'

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Mol	Chain	Res	Type	Atom
1	B	240	C	C4’
1	B	254	G	C3’
1	B	269	C	C4’,C3’
1	B	270	A	C1’
1	B	278	A	C4’,C3’
1	B	279	A	C3’
1	B	300	A	C4’
1	B	320	A	C4’
1	B	324	A	C4’
1	B	329	G	C4’
1	B	331	C	C4’
1	B	367	G	C3’,C4’
1	B	368	A	C4’
1	B	369	U	C4’,C3’
1	B	371	A	C3’
1	B	372	G	C4’
1	B	373	U	C3’
1	B	384	A	C3’
1	B	400	G	C3’
1	B	411	G	C3’
1	B	428	A	C3’
1	B	446	G	C3’
1	B	447	A	C3’
1	B	448	U	C4’,C3’
1	B	450	G	C3’
1	B	452	G	C4’
1	B	457	A	C4’
1	B	459	U	C4’
1	B	460	A	C3’
1	B	464	U	C4’
1	B	465	G	C4’
1	B	466	A	C3’
1	B	470	A	C3’,C4’
1	B	471	A	C4’,C3’
1	B	477	A	C3’
1	B	478	A	C1’
1	B	483	A	C4’,C3’
1	B	488	G	C4’
1	B	497	A	C4’
1	B	498	G	C4’,C3’
1	B	500	G	C4’
1	B	501	A	C3’

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Mol	Chain	Res	Type	Atom
1	B	502	A	C3’
1	B	503	A	C1’,C3’
1	B	504	A	C3’
1	B	505	A	C4’
1	B	511	U	C3’
1	B	512	G	C4’,C3’
1	B	513	A	C3’
1	B	526	A	C3’,C4’
1	B	528	A	C3’
1	B	532	A	C3’
1	B	555	G	C4’
1	B	563	A	C3’
1	B	564	C	C4’,C3’
1	B	567	U	C4’,C3’
1	B	568	U	C4’,C3’
1	B	570	G	C3’
1	B	571	U	C3’
1	B	572	A	C4’
1	B	573	U	C4’,C3’
1	B	574	A	C4’
1	B	575	A	C4’
1	B	576	U	C4’,C3’
1	B	585	G	C3’
1	B	587	C	C4’,C3’
1	B	588	U	C1’,C4’,C3’
1	B	608	A	C4’
1	B	609	A	C3’
1	B	669	G	C4’,C3’
1	B	670	A	C4’,C3’
1	B	673	C	C4’
1	B	676	A	C3’
1	B	685	A	C4’,C3’
1	B	699	A	C4’
1	B	704	G	C3’
1	B	725	G	C3’
1	B	727	A	C1’,C4’
1	B	728	G	C3’,C1’
1	B	761	A	C4’
1	B	762	U	C1’,C3’
1	B	780	G	C4’
1	B	781	A	C4’
1	B	782	A	C3’

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Mol	Chain	Res	Type	Atom
1	B	783	A	C3’
1	B	788	A	C4’,C3’
1	B	801	G	C4’
1	B	802	A	C1’,C3’
1	B	804	A	C4’
1	B	806	C	C3’
1	B	811	U	C4’,C3’
1	B	846	U	C4’
1	B	847	U	C3’,C4’
1	B	857	G	C4’
1	B	863	A	C4’
1	B	864	G	C3’
1	B	866	A	C4’
1	B	867	C	C4’
1	B	876	C	C3’
1	B	887	U	C3’
1	B	900	A	C4’
1	B	913	U	C4’,C3’
1	B	914	G	C4’
1	B	916	G	C4’
1	B	931	U	C4’
1	B	932	U	C3’
1	B	941	A	C3’,C4’
1	B	945	A	C4’
1	B	974	G	C3’,C4’
1	B	975	A	C4’,C3’
1	B	982	C	C3’
1	B	990	A	C3’
1	B	1008	A	C4’
1	B	1021	A	C4’
1	B	1023	U	C4’
1	B	1024	G	C4’
1	B	1025	G	C3’
1	B	1032	A	C4’
1	B	1033	U	C4’
1	B	1045	C	C3’
1	B	1048	A	C4’
1	B	1109	C	C3’,C4’
1	B	1110	G	C3’
1	B	1115	G	C3’
1	B	1116	G	C3’
1	B	1128	G	C4’

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Mol	Chain	Res	Type	Atom
1	B	1129	A	C4',C3'
1	B	1133	A	C4'
1	B	1136	G	C4'
1	B	1189	A	C3'
1	B	1196	C	C4'
1	B	1205	A	C4'
1	B	1248	G	C4'
1	B	1251	C	C3'
1	B	1252	G	C4'
1	B	1254	A	C3'
1	B	1255	U	C3'
1	B	1271	G	C4'
1	B	1274	A	C3',C1'
1	B	1275	A	C4',C3'
1	B	1282	U	C4'
1	B	1288	G	C4'
1	B	1299	G	C4',C3'
1	B	1308	A	C4'
1	B	1310	G	C4'
1	B	1325	U	C4',C3'
1	B	1326	U	C4',C3'
1	B	1327	A	C3'
1	B	1328	A	C4'
1	B	1354	A	C3'
1	B	1383	A	C4'
1	B	1416	G	C3'
1	B	1438	U	C4'
1	B	1451	C	C3',C4'
1	B	1452	G	C3'
1	B	1454	C	C4'
1	B	1455	G	C4'
1	B	1467	U	C3'
1	B	1468	U	C3'
1	B	1477	A	C3'
1	B	1490	A	C3'
1	B	1515	A	C3'
1	B	1521	G	C3'
1	B	1522	A	C4'
1	B	1523	U	C3'
1	B	1525	A	C3'
1	B	1527	G	C4'
1	B	1528	A	C4'

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Mol	Chain	Res	Type	Atom
1	B	1545	A	C3',C4'
1	B	1567	G	C3'
1	B	1568	G	C4',C3'
1	B	1569	A	C4'
1	B	1571	A	C3'
1	B	1572	A	C3'
1	B	1585	C	C4'
1	B	1598	A	C4',C3'
1	B	1605	C	C1'
1	B	1606	C	C4'
1	B	1608	A	C4',C3'
1	B	1610	A	C1'
1	B	1616	A	C4'
1	B	1634	A	C3'
1	B	1640	A	C4'
1	B	1641	A	C3'
1	B	1647	U	C4'
1	B	1652	A	C4'
1	B	1653	G	C3'
1	B	1670	C	C4'
1	B	1671	U	C3'
1	B	1672	A	C4'
1	B	1674	G	C4',C3'
1	B	1677	A	C3'
1	B	1678	A	C3'
1	B	1679	A	C3',C4'
1	B	1680	U	C4'
1	B	1701	A	C4'
1	B	1720	U	C3'
1	B	1722	A	C4'
1	B	1737	G	C3'
1	B	1752	C	C4',C3'
1	B	1754	A	C3'
1	B	1762	A	C4'
1	B	1790	C	C4',C3'
1	B	1791	A	C4'
1	B	1801	A	C4',C3'
1	B	1802	A	C3'
1	B	1814	G	C3'
1	B	1828	G	C4',C3'
1	B	1848	A	C3',C4',C1'
1	B	1852	U	C3'

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Mol	Chain	Res	Type	Atom
1	B	1853	A	C4',C3'
1	B	1854	A	C4',C3'
1	B	1855	U	C4',C3'
1	B	1859	U	C4'
1	B	1869	G	C4'
1	B	1876	A	C3'
1	B	1889	A	C3'
1	B	1891	G	C4'
1	B	1899	A	C4',C3'
1	B	1925	C	C1',C4',C3'
1	B	1931	U	C1',C3'
1	B	1932	A	C4',C3'
1	B	1934	C	C4'
1	B	1936	A	C3'
1	B	1939	5MU	C4',C3'
1	B	1942	C	C4'
1	B	1943	U	C4',C3'
1	B	1951	U	C1'
1	B	1952	A	C4'
1	B	1953	A	C3'
1	B	1954	G	C4'
1	B	1971	U	C4'
1	B	1989	G	C3',C4'
1	B	2013	A	C1',C3'
1	B	2018	G	C4'
1	B	2020	A	C1',C4',C3'
1	B	2021	C	C4',C3'
1	B	2042	A	C3',C4'
1	B	2051	A	C3'
1	B	2058	A	C4'
1	B	2060	A	C4'
1	B	2082	A	C4'
1	B	2086	U	C4'
1	B	2110	G	C4'
1	B	2111	U	C4',C3'
1	B	2112	G	C3'
1	B	2126	A	C3'
1	B	2130	U	C3'
1	B	2132	U	C3'
1	B	2156	G	C3'
1	B	2158	A	C3',C4'
1	B	2163	A	C3'

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Mol	Chain	Res	Type	Atom
1	B	2170	A	C3’
1	B	2233	U	C3’
1	B	2265	U	C4’
1	B	2320	U	C4’
1	B	2322	A	C4’
1	B	2357	G	C3’
1	B	2365	G	C4’,C3’
1	B	2366	A	C1’
1	B	2371	G	C3’
1	B	2378	A	C4’
1	B	2405	G	C3’,C4’
1	B	2411	A	C3’
1	B	2427	C	C4’
1	B	2439	A	C4’
1	B	2449	5MU	C4’
1	B	2451	A	C4’,C3’
1	B	2469	A	C3’
1	B	2481	G	C4’
1	B	2497	A	C4’
1	B	2498	5MC	C4’
1	B	2505	G	C4’,C3’
1	B	2552	U	C4’
1	B	2555	U	C1’,C3’
1	B	2556	C	C4’
1	B	2562	U	C1’,C4’,C3’
1	B	2573	C	C4’,C3’
1	B	2595	G	C4’
1	B	2598	A	C3’
1	B	2607	G	C4’,C3’
1	B	2609	U	C4’
1	B	2610	C	C3’,C4’
1	B	2613	U	C4’,C3’
1	B	2626	C	C1’
1	B	2627	G	C4’,C3’
1	B	2629	U	C3’
1	B	2638	G	C3’,C4’
1	B	2639	A	C4’,C3’
1	B	2685	G	C4’
1	B	2687	U	C3’
1	B	2689	U	C3’,C4’
1	B	2702	G	C4’
1	B	2719	G	C4’

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Mol	Chain	Res	Type	Atom
1	B	2721	A	C4’
1	B	2733	A	C4’
1	B	2739	U	C3’,C4’
1	B	2740	A	C3’
1	B	2741	A	C1’
1	B	2751	G	C3’
1	B	2754	U	C3’,C4’
1	B	2766	A	C1’
1	B	2770	G	C3’
1	B	2806	C	C4’
1	B	2821	A	C4’
1	B	2823	A	C4’
1	B	2834	G	C3’,C4’
1	B	2835	A	C4’
1	B	2844	G	C1’,C4’,C3’
1	B	2845	U	C1’
1	B	2846	G	C1’,C3’
1	B	2847	U	C4’
1	B	2867	G	C1’,C4’
1	B	2869	G	C4’,C3’
1	B	2871	U	C4’
1	B	2884	U	C3’
1	B	2887	A	C4’,C3’
1	B	2890	G	C4’,C3’
1	B	2891	U	C3’
1	B	2903	U	C4’
1	B	2904	U	C3’

All (117) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	10	A	Sidechain
1	B	101	A	Sidechain
1	B	1021	A	Sidechain
1	B	1069	A	Sidechain
1	B	1087	G	Sidechain
1	B	1095	A	Sidechain
1	B	1098	A	Sidechain
1	B	1126	A	Sidechain
1	B	1133	A	Sidechain
1	B	1142	A	Sidechain
1	B	118	A	Sidechain

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Mol	Chain	Res	Type	Group
1	B	119	A	Sidechain
1	B	1197	G	Sidechain
1	B	1254	A	Sidechain
1	B	1268	A	Sidechain
1	B	1275	A	Sidechain
1	B	1285	A	Sidechain
1	B	1326	U	Sidechain
1	B	1327	A	Sidechain
1	B	1366	A	Sidechain
1	B	14	A	Sidechain
1	B	1419	A	Sidechain
1	B	1427	A	Sidechain
1	B	1490	A	Sidechain
1	B	1521	G	Sidechain
1	B	1522	A	Sidechain
1	B	1528	A	Sidechain
1	B	1552	A	Sidechain
1	B	1553	A	Sidechain
1	B	1566	A	Sidechain
1	B	1572	A	Sidechain
1	B	1580	A	Sidechain
1	B	1603	A	Sidechain
1	B	1626	A	Sidechain
1	B	1632	A	Sidechain
1	B	1641	A	Sidechain
1	B	1654	A	Sidechain
1	B	1672	A	Sidechain
1	B	1678	A	Sidechain
1	B	1679	A	Sidechain
1	B	1759	A	Sidechain
1	B	1802	A	Sidechain
1	B	1847	A	Sidechain
1	B	1900	A	Sidechain
1	B	2058	A	Sidechain
1	B	2060	A	Sidechain
1	B	207	A	Sidechain
1	B	2135	A	Sidechain
1	B	2158	A	Sidechain
1	B	219	A	Sidechain
1	B	221	A	Sidechain
1	B	223	A	Sidechain
1	B	2333	A	Sidechain

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Mol	Chain	Res	Type	Group
1	B	2378	A	Sidechain
1	B	2433	A	Sidechain
1	B	2451	A	Sidechain
1	B	2503	A	Sidechain
1	B	255	A	Sidechain
1	B	2602	A	Sidechain
1	B	2653	U	Sidechain
1	B	270	A	Sidechain
1	B	2725	A	Sidechain
1	B	2734	A	Sidechain
1	B	2740	A	Sidechain
1	B	2741	A	Sidechain
1	B	278	A	Sidechain
1	B	2799	A	Sidechain
1	B	2848	G	Sidechain
1	B	2872	A	Sidechain
1	B	2886	A	Sidechain
1	B	300	A	Sidechain
1	B	324	A	Sidechain
1	B	330	A	Sidechain
1	B	368	A	Sidechain
1	B	401	A	Sidechain
1	B	429	A	Sidechain
1	B	447	A	Sidechain
1	B	451	U	Sidechain
1	B	471	A	Sidechain
1	B	472	A	Sidechain
1	B	477	A	Sidechain
1	B	501	A	Sidechain
1	B	503	A	Sidechain
1	B	505	A	Sidechain
1	B	507	A	Sidechain
1	B	508	A	Sidechain
1	B	52	A	Sidechain
1	B	526	A	Sidechain
1	B	53	A	Sidechain
1	B	538	A	Sidechain
1	B	602	A	Sidechain
1	B	627	A	Sidechain
1	B	631	A	Sidechain
1	B	633	A	Sidechain
1	B	637	A	Sidechain

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Mol	Chain	Res	Type	Group
1	B	64	A	Sidechain
1	B	655	A	Sidechain
1	B	670	A	Sidechain
1	B	699	A	Sidechain
1	B	706	A	Sidechain
1	B	734	A	Sidechain
1	B	735	A	Sidechain
1	B	762	U	Sidechain
1	B	764	A	Sidechain
1	B	789	A	Sidechain
1	B	793	A	Sidechain
1	B	802	A	Sidechain
1	B	819	A	Sidechain
1	B	84	A	Sidechain
1	B	845	A	Sidechain
1	B	857	G	Sidechain
1	B	859	G	Sidechain
1	B	861	A	Sidechain
1	B	899	A	Sidechain
1	B	918	A	Sidechain
1	B	972	A	Sidechain
1	B	98	G	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	62348	23	31477	19787	0
All	All	62348	23	31477	19787	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 211.

All (19787) 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)
1:B:69:C:H4’	1:B:85:G:C4’	1.23	1.68
1:B:318:C:H5’	1:B:319:G:C8	1.24	1.68
1:B:1853:A:C5’	1:B:1853:A:H4’	1.23	1.68
1:B:1627:G:H1’	1:B:1641:A:C8	1.27	1.67
1:B:901:C:H5’	1:B:902:C:C5	1.19	1.66
1:B:93:G:H2’	1:B:498:G:C5’	1.23	1.65
1:B:1452:G:C5’	1:B:1452:G:C4’	1.74	1.65
1:B:2055:C:C4’	1:B:2055:C:C5’	1.74	1.65
1:B:1125:G:C4’	1:B:1125:G:C5’	1.75	1.64
1:B:1990:C:C4’	1:B:1990:C:C5’	1.74	1.64
1:B:525:U:C4’	1:B:525:U:C5’	1.75	1.64
1:B:2871:U:C4’	1:B:2871:U:C5’	1.76	1.64
1:B:94:A:C4’	1:B:94:A:C5’	1.75	1.63
1:B:275:C:C4’	1:B:275:C:C5’	1.76	1.63
1:B:478:A:C4’	1:B:478:A:C5’	1.74	1.63
1:B:685:A:C4’	1:B:685:A:C5’	1.76	1.63
1:B:1325:U:C4’	1:B:1325:U:C5’	1.74	1.62
1:B:1847:A:C5’	1:B:1847:A:C4’	1.77	1.62
1:B:1848:A:C4’	1:B:1848:A:C5’	1.77	1.62
1:B:1679:A:C4’	1:B:1679:A:C5’	1.75	1.62
1:B:1466:U:C4’	1:B:1466:U:C5’	1.75	1.62
1:B:1126:A:C4’	1:B:1126:A:C5’	1.75	1.61
1:B:776:G:C4’	1:B:776:G:C5’	1.78	1.61
1:B:1883:U:C4’	1:B:1884:G:H5’	1.24	1.61
1:B:598:U:H5’	1:B:937:C:C5’	1.26	1.61
1:B:1664:A:C4’	1:B:1664:A:C5’	1.75	1.61
1:B:859:G:H5”	1:B:860:U:C5	1.33	1.61
1:B:1028:A:C4’	1:B:1028:A:C5’	1.77	1.61
1:B:1888:G:C4’	1:B:1888:G:C5’	1.79	1.61
1:B:2685:G:C4’	1:B:2685:G:C5’	1.74	1.61
1:B:369:U:C4’	1:B:369:U:C5’	1.76	1.60
1:B:446:G:C5’	1:B:472:A:H5’	1.30	1.60
1:B:449:A:C4’	1:B:449:A:C5’	1.77	1.60
1:B:739:A:H3’	1:B:740:C:C5’	1.30	1.60
1:B:927:A:C5’	1:B:927:A:C4’	1.75	1.60
1:B:1348:C:C5’	1:B:1348:C:C4’	1.79	1.60
1:B:2322:A:C4’	1:B:2322:A:C5’	1.77	1.60
1:B:431:U:C5’	1:B:431:U:C4’	1.78	1.60
1:B:674:G:C5’	1:B:674:G:C4’	1.79	1.60
1:B:46:G:C4’	1:B:46:G:C5’	1.78	1.60
1:B:670:A:C5’	1:B:670:A:C4’	1.74	1.59
1:B:1117:C:H5”	1:B:2751:G:C5’	1.27	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:598:U:C5’	1:B:937:C:H5’	1.16	1.59
1:B:1254:A:C4’	1:B:1254:A:C5’	1.77	1.59
1:B:1445:G:H5”	1:B:1446:C:C5	1.32	1.59
1:B:2453:A:C4’	1:B:2453:A:C5’	1.80	1.59
1:B:2903:U:C5’	1:B:2903:U:C4’	1.76	1.59
1:B:27:G:C4’	1:B:27:G:C5’	1.77	1.58
1:B:53:A:C4’	1:B:53:A:C5’	1.77	1.58
1:B:266:G:H5”	1:B:368:A:C5’	1.33	1.58
1:B:1425:G:C5’	1:B:1566:A:H4’	1.25	1.58
1:B:2112:G:C4’	1:B:2112:G:C5’	1.75	1.58
1:B:2454:G:C5’	1:B:2454:G:C4’	1.74	1.58
1:B:215:G:C5’	1:B:215:G:C4’	1.76	1.58
1:B:300:A:C4’	1:B:300:A:C5’	1.78	1.58
1:B:483:A:C5’	1:B:483:A:C4’	1.76	1.58
1:B:1674:G:C8	1:B:1675:C:H5’	1.39	1.58
1:B:1853:A:H2’	1:B:1888:G:C8	1.34	1.58
1:B:279:A:C1’	1:B:279:A:N9	1.67	1.57
1:B:294:A:C4’	1:B:294:A:C5’	1.81	1.57
1:B:15:G:N9	1:B:15:G:C1’	1.67	1.57
1:B:423:A:H3’	1:B:424:G:C5’	1.21	1.57
1:B:1931:U:N1	1:B:1931:U:C1’	1.67	1.57
1:B:2267:A:C1’	1:B:2267:A:N9	1.68	1.57
1:B:2366:A:C1’	1:B:2366:A:N9	1.68	1.57
1:B:2406:A:C5’	1:B:2406:A:C4’	1.75	1.57
1:B:2807:U:N1	1:B:2807:U:C1’	1.67	1.57
1:B:450:G:C1’	1:B:450:G:N9	1.68	1.57
1:B:918:A:N9	1:B:918:A:C1’	1.68	1.57
1:B:941:A:C5’	1:B:941:A:C4’	1.79	1.57
1:B:1803:A:C1’	1:B:1803:A:N9	1.67	1.57
1:B:1943:U:C5	1:B:2071:A:H5”	1.38	1.57
1:B:2847:U:N1	1:B:2847:U:C1’	1.68	1.57
1:B:73:A:H4’	1:B:113:U:C1’	1.33	1.57
1:B:340:A:C1’	1:B:340:A:N9	1.68	1.57
1:B:478:A:C1’	1:B:478:A:N9	1.68	1.57
1:B:735:A:N9	1:B:735:A:C1’	1.68	1.57
1:B:1029:A:C1’	1:B:1029:A:N9	1.68	1.57
1:B:1809:A:C1’	1:B:1809:A:N9	1.68	1.57
1:B:1942:C:C5’	1:B:2442:C:H5’	1.28	1.57
1:B:2113:U:C4’	1:B:2113:U:C5’	1.74	1.57
1:B:2382:G:C4’	1:B:2382:G:C5’	1.78	1.57
1:B:2626:C:N1	1:B:2626:C:C1’	1.68	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2683:C:H5”	1:B:2721:A:C2	1.34	1.57
1:B:477:A:N9	1:B:477:A:C1’	1.67	1.56
1:B:837:C:H3’	1:B:838:C:C5’	1.11	1.56
1:B:959:A:C1’	1:B:959:A:N9	1.68	1.56
1:B:2171:A:C1’	1:B:2171:A:N9	1.68	1.56
1:B:2346:A:C1’	1:B:2346:A:N9	1.68	1.56
1:B:2598:A:C1’	1:B:2598:A:N9	1.69	1.56
1:B:103:A:C4’	1:B:103:A:C5’	1.78	1.56
1:B:423:A:C3’	1:B:424:G:H5”	1.28	1.56
1:B:483:A:H2’	1:B:484:C:C5’	1.23	1.56
1:B:498:G:C5’	1:B:498:G:C4’	1.78	1.56
1:B:502:A:C1’	1:B:502:A:N9	1.69	1.56
1:B:508:A:N9	1:B:508:A:C1’	1.67	1.56
1:B:509:C:N1	1:B:509:C:C1’	1.69	1.56
1:B:1023:U:N1	1:B:1023:U:C1’	1.68	1.56
1:B:1598:A:C1’	1:B:1598:A:N9	1.69	1.56
1:B:1828:G:C1’	1:B:1828:G:N9	1.68	1.56
1:B:1989:G:C4’	1:B:1989:G:C5’	1.76	1.56
1:B:92:U:C4’	1:B:92:U:C5’	1.81	1.56
1:B:2115:G:C1’	1:B:2115:G:N9	1.68	1.56
1:B:2497:A:C1’	1:B:2497:A:N9	1.69	1.56
1:B:2726:A:C1’	1:B:2726:A:N9	1.68	1.56
1:B:251:A:C1’	1:B:251:A:N9	1.68	1.56
1:B:1028:A:C1’	1:B:1028:A:N9	1.67	1.56
1:B:1568:G:C4’	1:B:1568:G:C5’	1.76	1.56
1:B:1872:A:C1’	1:B:1872:A:N9	1.68	1.56
1:B:2309:A:C1’	1:B:2309:A:N9	1.69	1.56
1:B:2378:A:C1’	1:B:2378:A:N9	1.69	1.56
1:B:2405:G:C5’	1:B:2405:G:C4’	1.75	1.56
1:B:2682:A:C1’	1:B:2682:A:N9	1.68	1.56
1:B:2726:A:H4’	1:B:2727:A:C5’	1.28	1.56
1:B:2849:U:C6	1:B:2872:A:H1’	1.33	1.56
1:B:2868:A:C8	1:B:2871:U:H2’	1.39	1.56
1:B:112:U:C4’	1:B:112:U:C5’	1.80	1.56
1:B:532:A:C1’	1:B:532:A:N9	1.68	1.56
1:B:632:A:C1’	1:B:632:A:N9	1.69	1.56
1:B:1286:A:C1’	1:B:1286:A:N9	1.68	1.56
1:B:1608:A:C1’	1:B:1608:A:N9	1.68	1.56
1:B:1782:U:N1	1:B:1782:U:C1’	1.69	1.56
1:B:1943:U:C4’	1:B:1943:U:C5’	1.77	1.56
1:B:2158:A:H2’	1:B:2159:G:C5’	1.35	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2585:U:N1	1:B:2585:U:C1'	1.68	1.56
1:B:190:A:N9	1:B:190:A:C1'	1.69	1.55
1:B:499:U:N1	1:B:499:U:C1'	1.69	1.55
1:B:684:G:C4'	1:B:684:G:C5'	1.77	1.55
1:B:1048:A:C5'	1:B:1048:A:C4'	1.78	1.55
1:B:1265:A:C1'	1:B:1265:A:N9	1.69	1.55
1:B:1327:A:C4'	1:B:1327:A:C5'	1.82	1.55
1:B:1545:A:C1'	1:B:1545:A:N9	1.68	1.55
1:B:1614:A:C1'	1:B:1614:A:N9	1.69	1.55
1:B:1676:A:C1'	1:B:1676:A:N9	1.67	1.55
1:B:1918:A:C1'	1:B:1918:A:N9	1.68	1.55
1:B:2166:U:N1	1:B:2166:U:C1'	1.69	1.55
1:B:2167:U:N1	1:B:2167:U:C1'	1.69	1.55
1:B:2245:U:N1	1:B:2245:U:C1'	1.69	1.55
1:B:320:A:C5'	1:B:320:A:C4'	1.80	1.55
1:B:576:U:N1	1:B:576:U:C1'	1.69	1.55
1:B:714:U:N1	1:B:714:U:C1'	1.70	1.55
1:B:1176:U:N1	1:B:1176:U:C1'	1.69	1.55
1:B:1242:U:N1	1:B:1242:U:C1'	1.69	1.55
1:B:1267:U:C1'	1:B:1267:U:N1	1.70	1.55
1:B:1365:A:C1'	1:B:1365:A:N9	1.68	1.55
1:B:1393:A:C1'	1:B:1393:A:N9	1.69	1.55
1:B:1581:G:C1'	1:B:1581:G:N9	1.68	1.55
1:B:1632:A:C1'	1:B:1632:A:N9	1.69	1.55
1:B:1853:A:C5'	1:B:1853:A:C4'	1.80	1.55
1:B:2028:U:N1	1:B:2028:U:C1'	1.69	1.55
1:B:2147:A:C1'	1:B:2147:A:N9	1.68	1.55
1:B:2212:A:C1'	1:B:2212:A:N9	1.69	1.55
1:B:2721:A:C1'	1:B:2721:A:N9	1.68	1.55
1:B:120:U:C4'	1:B:120:U:C5'	1.84	1.55
1:B:270:A:C1'	1:B:270:A:N9	1.69	1.55
1:B:309:A:C1'	1:B:309:A:N9	1.69	1.55
1:B:346:A:C1'	1:B:346:A:N9	1.70	1.55
1:B:391:A:C1'	1:B:391:A:N9	1.68	1.55
1:B:466:A:C1'	1:B:466:A:N9	1.68	1.55
1:B:498:G:C1'	1:B:498:G:N9	1.68	1.55
1:B:1141:U:N1	1:B:1141:U:C1'	1.69	1.55
1:B:1263:U:N1	1:B:1263:U:C1'	1.68	1.55
1:B:1287:A:C1'	1:B:1287:A:N9	1.67	1.55
1:B:1773:A:C1'	1:B:1773:A:N9	1.68	1.55
1:B:1848:A:C1'	1:B:1848:A:N9	1.70	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1855:U:C4'	1:B:1855:U:C5'	1.78	1.55
1:B:1981:A:C1'	1:B:1981:A:N9	1.69	1.55
1:B:2335:A:C1'	1:B:2335:A:N9	1.70	1.55
1:B:226:A:N9	1:B:226:A:C1'	1.69	1.55
1:B:278:A:C1'	1:B:278:A:N9	1.68	1.55
1:B:371:A:N9	1:B:371:A:C1'	1.68	1.55
1:B:402:A:C1'	1:B:402:A:N9	1.68	1.55
1:B:449:A:H4'	1:B:452:G:C1'	1.36	1.55
1:B:616:A:C1'	1:B:616:A:N9	1.68	1.55
1:B:706:A:C1'	1:B:706:A:N9	1.67	1.55
1:B:1203:U:N1	1:B:1203:U:C1'	1.69	1.55
1:B:1251:C:N1	1:B:1251:C:C1'	1.69	1.55
1:B:1268:A:C1'	1:B:1268:A:N9	1.70	1.55
1:B:1310:G:C1'	1:B:1310:G:N9	1.69	1.55
1:B:1397:U:N1	1:B:1397:U:C1'	1.70	1.55
1:B:1434:A:C1'	1:B:1434:A:N9	1.68	1.55
1:B:1470:A:C1'	1:B:1470:A:N9	1.68	1.55
1:B:1582:C:N1	1:B:1582:C:C1'	1.69	1.55
1:B:1634:A:C1'	1:B:1634:A:N9	1.68	1.55
1:B:1791:A:H8	1:B:1942:C:C5'	1.16	1.55
1:B:1810:A:C1'	1:B:1810:A:N9	1.70	1.55
1:B:1925:C:N1	1:B:1925:C:C1'	1.69	1.55
1:B:1930:G:C1'	1:B:1930:G:N9	1.69	1.55
1:B:2113:U:N1	1:B:2113:U:C1'	1.70	1.55
1:B:2724:U:N1	1:B:2724:U:C1'	1.67	1.55
1:B:2748:A:C1'	1:B:2748:A:N9	1.68	1.55
1:B:2799:A:C1'	1:B:2799:A:N9	1.69	1.55
1:B:51:G:C5'	1:B:51:G:C4'	1.85	1.55
1:B:160:A:C1'	1:B:160:A:N9	1.68	1.55
1:B:446:G:C1'	1:B:446:G:N9	1.68	1.55
1:B:608:A:C4'	1:B:608:A:C5'	1.75	1.55
1:B:859:G:C4'	1:B:859:G:C5'	1.78	1.55
1:B:1264:A:C1'	1:B:1264:A:N9	1.70	1.55
1:B:1275:A:C1'	1:B:1275:A:N9	1.68	1.55
1:B:1433:A:C1'	1:B:1433:A:N9	1.68	1.55
1:B:1570:A:N9	1:B:1570:A:C1'	1.67	1.55
1:B:1646:C:N1	1:B:1646:C:C1'	1.69	1.55
1:B:1866:A:C5'	1:B:1866:A:C4'	1.81	1.55
1:B:1889:A:C1'	1:B:1889:A:N9	1.67	1.55
1:B:2060:A:H5'	1:B:2446:G:C5'	1.29	1.55
1:B:2130:U:N1	1:B:2130:U:C1'	1.70	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2426:A:C1'	1:B:2426:A:N9	1.70	1.55
1:B:14:A:C1'	1:B:14:A:N9	1.68	1.54
1:B:52:A:C5'	1:B:52:A:C4'	1.80	1.54
1:B:360:U:N1	1:B:360:U:C1'	1.70	1.54
1:B:734:A:C1'	1:B:734:A:N9	1.69	1.54
1:B:762:U:H1'	1:B:763:G:C4'	1.32	1.54
1:B:829:A:C1'	1:B:829:A:N9	1.68	1.54
1:B:847:U:N1	1:B:847:U:C1'	1.70	1.54
1:B:864:G:C1'	1:B:864:G:N9	1.68	1.54
1:B:876:C:N1	1:B:876:C:C1'	1.67	1.54
1:B:1133:A:N9	1:B:1133:A:C1'	1.69	1.54
1:B:1273:U:N1	1:B:1273:U:C1'	1.70	1.54
1:B:1425:G:H5'	1:B:1566:A:C4'	1.28	1.54
1:B:1737:G:C1'	1:B:1737:G:N9	1.70	1.54
1:B:1932:A:C5'	1:B:1932:A:C4'	1.84	1.54
1:B:2119:A:C1'	1:B:2119:A:N9	1.70	1.54
1:B:2273:A:C1'	1:B:2273:A:N9	1.69	1.54
1:B:2357:G:C1'	1:B:2357:G:N9	1.67	1.54
1:B:2751:G:C5'	1:B:2751:G:C4'	1.80	1.54
1:B:2757:A:C1'	1:B:2757:A:N9	1.68	1.54
1:B:2826:A:C1'	1:B:2826:A:N9	1.67	1.54
1:B:179:C:N1	1:B:179:C:C1'	1.68	1.54
1:B:216:A:C1'	1:B:216:A:N9	1.68	1.54
1:B:310:A:C1'	1:B:310:A:N9	1.69	1.54
1:B:482:A:C1'	1:B:482:A:N9	1.69	1.54
1:B:483:A:C2'	1:B:484:C:H5"	1.33	1.54
1:B:846:U:C5'	1:B:846:U:C4'	1.76	1.54
1:B:910:A:C1'	1:B:910:A:N9	1.69	1.54
1:B:973:A:C1'	1:B:973:A:N9	1.68	1.54
1:B:1205:A:C1'	1:B:1205:A:N9	1.68	1.54
1:B:1800:C:N1	1:B:1800:C:C1'	1.70	1.54
1:B:1969:A:N9	1:B:1969:A:C1'	1.71	1.54
1:B:2042:A:C5'	1:B:2042:A:C4'	1.77	1.54
1:B:2165:C:C1'	1:B:2165:C:N1	1.70	1.54
1:B:2533:U:N1	1:B:2533:U:C1'	1.69	1.54
1:B:2552:U:N1	1:B:2552:U:C1'	1.70	1.54
1:B:2739:U:N1	1:B:2739:U:C1'	1.69	1.54
1:B:2766:A:C2'	1:B:2767:C:H5'	1.28	1.54
1:B:2821:A:C1'	1:B:2821:A:N9	1.68	1.54
1:B:27:G:C1'	1:B:27:G:N9	1.70	1.54
1:B:254:G:C1'	1:B:254:G:N9	1.70	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:321:U:N1	1:B:321:U:C1'	1.70	1.54
1:B:384:A:N9	1:B:384:A:C1'	1.68	1.54
1:B:453:A:N9	1:B:453:A:C1'	1.68	1.54
1:B:490:C:N1	1:B:490:C:C1'	1.70	1.54
1:B:505:A:C1'	1:B:505:A:N9	1.70	1.54
1:B:565:C:N1	1:B:565:C:C1'	1.71	1.54
1:B:626:A:C1'	1:B:626:A:N9	1.68	1.54
1:B:752:A:C1'	1:B:752:A:N9	1.68	1.54
1:B:889:C:N1	1:B:889:C:C1'	1.71	1.54
1:B:899:A:C1'	1:B:899:A:N9	1.69	1.54
1:B:1905:C:C4'	1:B:1927:A:H4'	1.12	1.54
1:B:1940:U:N1	1:B:1940:U:C1'	1.68	1.54
1:B:2062:A:C1'	1:B:2062:A:N9	1.70	1.54
1:B:2146:C:C1'	1:B:2146:C:N1	1.71	1.54
1:B:2156:G:C1'	1:B:2156:G:N9	1.70	1.54
1:B:2411:A:C1'	1:B:2411:A:N9	1.68	1.54
1:B:2564:A:C1'	1:B:2564:A:N9	1.69	1.54
1:B:2675:A:C1'	1:B:2675:A:N9	1.69	1.54
1:B:2684:U:N1	1:B:2684:U:C1'	1.69	1.54
1:B:2690:U:C1'	1:B:2690:U:N1	1.70	1.54
1:B:28:A:C1'	1:B:28:A:N9	1.69	1.54
1:B:472:A:N9	1:B:472:A:C1'	1.67	1.54
1:B:614:A:C1'	1:B:614:A:N9	1.69	1.54
1:B:685:A:N9	1:B:685:A:C1'	1.69	1.54
1:B:705:A:N9	1:B:705:A:C1'	1.71	1.54
1:B:789:A:C1'	1:B:789:A:N9	1.68	1.54
1:B:1321:A:C1'	1:B:1321:A:N9	1.69	1.54
1:B:1466:U:N1	1:B:1466:U:C1'	1.71	1.54
1:B:1584:U:N1	1:B:1584:U:C1'	1.68	1.54
1:B:1609:A:C1'	1:B:1609:A:N9	1.70	1.54
1:B:2019:A:C1'	1:B:2019:A:N9	1.68	1.54
1:B:2225:A:C1'	1:B:2225:A:N9	1.68	1.54
1:B:2433:A:C1'	1:B:2433:A:N9	1.69	1.54
1:B:2467:C:N1	1:B:2467:C:C1'	1.71	1.54
1:B:2501:C:N1	1:B:2501:C:C1'	1.70	1.54
1:B:2542:A:N9	1:B:2542:A:C1'	1.69	1.54
1:B:2689:U:N1	1:B:2689:U:C1'	1.70	1.54
1:B:2753:A:C1'	1:B:2753:A:N9	1.68	1.54
1:B:2850:A:C1'	1:B:2850:A:N9	1.70	1.54
1:B:111:A:C1'	1:B:111:A:N9	1.67	1.54
1:B:227:A:C1'	1:B:227:A:N9	1.67	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:264:C:N1	1:B:264:C:C1'	1.70	1.54
1:B:459:U:N1	1:B:459:U:C1'	1.68	1.54
1:B:782:A:C1'	1:B:782:A:N9	1.68	1.54
1:B:861:A:C5'	1:B:861:A:C4'	1.83	1.54
1:B:900:A:C1'	1:B:900:A:N9	1.69	1.54
1:B:1049:C:N1	1:B:1049:C:C1'	1.69	1.54
1:B:1235:G:C1'	1:B:1235:G:N9	1.71	1.54
1:B:1325:U:N1	1:B:1325:U:C1'	1.69	1.54
1:B:1438:U:N1	1:B:1438:U:C1'	1.69	1.54
1:B:1453:A:H1'	1:B:1525:A:C8	1.40	1.54
1:B:1604:C:N1	1:B:1604:C:C1'	1.70	1.54
1:B:1652:A:C1'	1:B:1652:A:N9	1.71	1.54
1:B:1753:G:C1'	1:B:1753:G:N9	1.69	1.54
1:B:2082:A:N9	1:B:2082:A:C1'	1.67	1.54
1:B:2180:U:N1	1:B:2180:U:C1'	1.70	1.54
1:B:2392:A:C1'	1:B:2392:A:N9	1.69	1.54
1:B:2723:C:N1	1:B:2723:C:C1'	1.71	1.54
1:B:2870:C:N1	1:B:2870:C:C1'	1.70	1.54
1:B:26:G:C5'	1:B:26:G:C4'	1.77	1.53
1:B:87:U:H3'	1:B:88:G:P	1.47	1.53
1:B:196:A:C1'	1:B:196:A:N9	1.68	1.53
1:B:412:A:C1'	1:B:412:A:N9	1.70	1.53
1:B:686:U:N1	1:B:686:U:C1'	1.69	1.53
1:B:718:A:C1'	1:B:718:A:N9	1.69	1.53
1:B:792:A:C1'	1:B:792:A:N9	1.67	1.53
1:B:863:A:N9	1:B:863:A:C1'	1.71	1.53
1:B:1025:G:C1'	1:B:1025:G:N9	1.69	1.53
1:B:1047:G:C1'	1:B:1047:G:N9	1.70	1.53
1:B:1322:A:C1'	1:B:1322:A:N9	1.70	1.53
1:B:1418:G:C1'	1:B:1418:G:N9	1.71	1.53
1:B:1495:A:C1'	1:B:1495:A:N9	1.68	1.53
1:B:1566:A:C1'	1:B:1566:A:N9	1.67	1.53
1:B:1586:A:N9	1:B:1586:A:C1'	1.70	1.53
1:B:1713:A:N9	1:B:1713:A:C1'	1.69	1.53
1:B:1730:C:N1	1:B:1730:C:C1'	1.70	1.53
1:B:1755:A:C1'	1:B:1755:A:N9	1.70	1.53
1:B:1859:U:N1	1:B:1859:U:C1'	1.71	1.53
1:B:1926:U:N1	1:B:1926:U:C1'	1.70	1.53
1:B:1978:A:C1'	1:B:1978:A:N9	1.69	1.53
1:B:2031:A:C1'	1:B:2031:A:N9	1.68	1.53
1:B:2179:C:N1	1:B:2179:C:C1'	1.71	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2268:A:C1’	1:B:2268:A:N9	1.69	1.53
1:B:2393:U:N1	1:B:2393:U:C1’	1.69	1.53
1:B:2440:C:N1	1:B:2440:C:C1’	1.70	1.53
1:B:2468:A:C1’	1:B:2468:A:N9	1.71	1.53
1:B:2587:A:C1’	1:B:2587:A:N9	1.67	1.53
1:B:2756:U:N1	1:B:2756:U:C1’	1.69	1.53
1:B:2764:A:C1’	1:B:2764:A:N9	1.69	1.53
1:B:2790:U:N1	1:B:2790:U:C1’	1.70	1.53
1:B:2823:A:C1’	1:B:2823:A:N9	1.69	1.53
1:B:28:A:C4’	1:B:28:A:C5’	1.80	1.53
1:B:71:A:C5’	1:B:71:A:C4’	1.82	1.53
1:B:793:A:C1’	1:B:793:A:N9	1.68	1.53
1:B:828:U:N1	1:B:828:U:C1’	1.70	1.53
1:B:906:U:N1	1:B:906:U:C1’	1.68	1.53
1:B:983:A:C1’	1:B:983:A:N9	1.67	1.53
1:B:1033:U:N1	1:B:1033:U:C1’	1.69	1.53
1:B:1130:U:N1	1:B:1130:U:C1’	1.68	1.53
1:B:1366:A:C1’	1:B:1366:A:N9	1.68	1.53
1:B:1378:A:N9	1:B:1378:A:C1’	1.68	1.53
1:B:1391:U:N1	1:B:1391:U:C1’	1.69	1.53
1:B:1605:C:N1	1:B:1605:C:C1’	1.70	1.53
1:B:1688:U:N1	1:B:1688:U:C1’	1.70	1.53
1:B:2145:C:N1	1:B:2145:C:C1’	1.71	1.53
1:B:2334:U:N1	1:B:2334:U:C1’	1.69	1.53
1:B:2428:G:C1’	1:B:2428:G:N9	1.72	1.53
1:B:2846:G:C4’	1:B:2846:G:C5’	1.82	1.53
1:B:2873:A:C1’	1:B:2873:A:N9	1.69	1.53
1:B:15:G:C4’	1:B:15:G:C5’	1.83	1.53
1:B:63:A:C1’	1:B:63:A:N9	1.69	1.53
1:B:99:U:C4’	1:B:99:U:C5’	1.82	1.53
1:B:103:A:C1’	1:B:103:A:N9	1.69	1.53
1:B:214:G:C1’	1:B:214:G:N9	1.70	1.53
1:B:276:U:N1	1:B:276:U:C1’	1.69	1.53
1:B:602:A:C1’	1:B:602:A:N9	1.70	1.53
1:B:1585:C:N1	1:B:1585:C:C1’	1.70	1.53
1:B:1692:U:N1	1:B:1692:U:C1’	1.71	1.53
1:B:1693:U:N1	1:B:1693:U:C1’	1.70	1.53
1:B:1928:A:C1’	1:B:1928:A:N9	1.67	1.53
1:B:1938:A:C4’	1:B:1938:A:C5’	1.76	1.53
1:B:1944:U:C5’	1:B:1944:U:C4’	1.81	1.53
1:B:2406:A:C1’	1:B:2406:A:N9	1.71	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2563:U:N1	1:B:2563:U:C1'	1.69	1.53
1:B:2575:C:N1	1:B:2575:C:C1'	1.68	1.53
1:B:26:G:C1'	1:B:26:G:N9	1.69	1.53
1:B:62:U:N1	1:B:62:U:C1'	1.70	1.53
1:B:181:A:C1'	1:B:181:A:N9	1.68	1.53
1:B:501:A:C1'	1:B:501:A:N9	1.68	1.53
1:B:654:A:C1'	1:B:654:A:N9	1.67	1.53
1:B:749:A:C1'	1:B:749:A:N9	1.68	1.53
1:B:804:A:C1'	1:B:804:A:N9	1.69	1.53
1:B:804:A:C5'	1:B:804:A:C4'	1.76	1.53
1:B:837:C:N1	1:B:837:C:C1'	1.69	1.53
1:B:878:A:C1'	1:B:878:A:N9	1.68	1.53
1:B:887:U:N1	1:B:887:U:C1'	1.70	1.53
1:B:1001:A:C1'	1:B:1001:A:N9	1.69	1.53
1:B:1367:A:C1'	1:B:1367:A:N9	1.69	1.53
1:B:1454:C:N1	1:B:1454:C:C1'	1.70	1.53
1:B:1496:A:C1'	1:B:1496:A:N9	1.69	1.53
1:B:1535:A:C1'	1:B:1535:A:N9	1.69	1.53
1:B:1580:A:C1'	1:B:1580:A:N9	1.69	1.53
1:B:1655:A:C1'	1:B:1655:A:N9	1.71	1.53
1:B:1700:A:C1'	1:B:1700:A:N9	1.69	1.53
1:B:1714:U:N1	1:B:1714:U:C1'	1.72	1.53
1:B:1856:U:H3'	1:B:1886:U:C6	1.39	1.53
1:B:1866:A:C1'	1:B:1866:A:N9	1.68	1.53
1:B:1883:U:H4'	1:B:1884:G:C5'	1.37	1.53
1:B:2430:A:N9	1:B:2430:A:C1'	1.71	1.53
1:B:2478:A:C1'	1:B:2478:A:N9	1.67	1.53
1:B:2584:U:N1	1:B:2584:U:C1'	1.70	1.53
1:B:73:A:C1'	1:B:73:A:N9	1.67	1.53
1:B:299:A:N9	1:B:299:A:C1'	1.69	1.53
1:B:362:A:C1'	1:B:362:A:N9	1.69	1.53
1:B:373:U:N1	1:B:373:U:C1'	1.69	1.53
1:B:388:G:C1'	1:B:388:G:N9	1.72	1.53
1:B:390:U:N1	1:B:390:U:C1'	1.69	1.53
1:B:432:A:C1'	1:B:432:A:N9	1.70	1.53
1:B:528:A:C1'	1:B:528:A:N9	1.67	1.53
1:B:569:U:N1	1:B:569:U:C1'	1.69	1.53
1:B:943:A:C1'	1:B:943:A:N9	1.70	1.53
1:B:980:A:C1'	1:B:980:A:N9	1.68	1.53
1:B:988:A:C1'	1:B:988:A:N9	1.70	1.53
1:B:1127:A:C1'	1:B:1127:A:N9	1.68	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1284:A:C1'	1:B:1284:A:N9	1.70	1.53
1:B:1285:A:N9	1:B:1285:A:C1'	1.72	1.53
1:B:1308:A:N9	1:B:1308:A:C1'	1.72	1.53
1:B:1603:A:C1'	1:B:1603:A:N9	1.69	1.53
1:B:1616:A:C1'	1:B:1616:A:N9	1.69	1.53
1:B:1689:A:C1'	1:B:1689:A:N9	1.70	1.53
1:B:1739:A:C1'	1:B:1739:A:N9	1.67	1.53
1:B:1857:G:C5'	1:B:1857:G:C4'	1.87	1.53
1:B:2109:U:N1	1:B:2109:U:C1'	1.71	1.53
1:B:2126:A:C1'	1:B:2126:A:N9	1.69	1.53
1:B:2135:A:C1'	1:B:2135:A:N9	1.68	1.53
1:B:2345:G:H1'	1:B:2382:G:C1'	1.31	1.53
1:B:2388:A:N9	1:B:2388:A:C1'	1.68	1.53
1:B:2556:C:C3'	1:B:2557:G:H5"	1.34	1.53
1:B:2734:A:C1'	1:B:2734:A:N9	1.70	1.53
1:B:2738:A:C1'	1:B:2738:A:N9	1.71	1.53
1:B:52:A:C1'	1:B:52:A:N9	1.68	1.52
1:B:73:A:C4'	1:B:113:U:H1'	1.32	1.52
1:B:139:U:N1	1:B:139:U:C1'	1.68	1.52
1:B:149:A:N9	1:B:149:A:C1'	1.69	1.52
1:B:203:A:C1'	1:B:203:A:N9	1.70	1.52
1:B:232:G:C1'	1:B:232:G:N9	1.72	1.52
1:B:275:C:N1	1:B:275:C:C1'	1.67	1.52
1:B:300:A:C1'	1:B:300:A:N9	1.68	1.52
1:B:328:U:C1'	1:B:328:U:N1	1.69	1.52
1:B:370:G:N9	1:B:370:G:C1'	1.72	1.52
1:B:575:A:C1'	1:B:575:A:N9	1.68	1.52
1:B:637:A:C1'	1:B:637:A:N9	1.71	1.52
1:B:673:C:N1	1:B:673:C:C1'	1.70	1.52
1:B:717:C:N1	1:B:717:C:C1'	1.71	1.52
1:B:751:A:C1'	1:B:751:A:N9	1.68	1.52
1:B:807:U:C1'	1:B:807:U:N1	1.68	1.52
1:B:827:U:N1	1:B:827:U:C1'	1.71	1.52
1:B:867:C:N1	1:B:867:C:C1'	1.70	1.52
1:B:982:C:N1	1:B:982:C:C1'	1.71	1.52
1:B:1040:A:N9	1:B:1040:A:C1'	1.68	1.52
1:B:1255:U:N1	1:B:1255:U:C1'	1.71	1.52
1:B:1341:G:C1'	1:B:1341:G:N9	1.72	1.52
1:B:1354:A:N9	1:B:1354:A:C1'	1.68	1.52
1:B:1359:A:N9	1:B:1359:A:C1'	1.72	1.52
1:B:1419:A:C1'	1:B:1419:A:N9	1.68	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1460:U:N1	1:B:1460:U:C1'	1.71	1.52
1:B:1701:A:C1'	1:B:1701:A:N9	1.70	1.52
1:B:1719:G:C1'	1:B:1719:G:N9	1.72	1.52
1:B:1818:U:N1	1:B:1818:U:C1'	1.69	1.52
1:B:1890:A:N9	1:B:1890:A:C1'	1.69	1.52
1:B:1942:C:C5'	1:B:1942:C:C4'	1.86	1.52
1:B:1955:U:N1	1:B:1955:U:C1'	1.70	1.52
1:B:1967:C:N1	1:B:1967:C:C1'	1.72	1.52
1:B:2172:U:N1	1:B:2172:U:C1'	1.68	1.52
1:B:2318:G:C1'	1:B:2318:G:N9	1.72	1.52
1:B:2450:A:C1'	1:B:2450:A:N9	1.69	1.52
1:B:2749:A:C1'	1:B:2749:A:N9	1.70	1.52
1:B:2883:A:C1'	1:B:2883:A:N9	1.67	1.52
1:B:33:C:C1'	1:B:33:C:N1	1.70	1.52
1:B:140:C:N1	1:B:140:C:C1'	1.71	1.52
1:B:161:A:C1'	1:B:161:A:N9	1.69	1.52
1:B:262:A:H5'	1:B:429:A:C4'	1.37	1.52
1:B:262:A:C5'	1:B:429:A:C4'	1.88	1.52
1:B:332:A:C1'	1:B:332:A:N9	1.68	1.52
1:B:443:A:C1'	1:B:443:A:N9	1.67	1.52
1:B:497:A:C1'	1:B:497:A:N9	1.72	1.52
1:B:562:U:N1	1:B:562:U:C1'	1.70	1.52
1:B:573:U:N1	1:B:573:U:C1'	1.69	1.52
1:B:652:U:N1	1:B:652:U:C1'	1.69	1.52
1:B:857:G:C5'	1:B:857:G:C4'	1.87	1.52
1:B:871:U:N1	1:B:871:U:C1'	1.70	1.52
1:B:916:G:C1'	1:B:916:G:N9	1.73	1.52
1:B:989:G:C1'	1:B:989:G:N9	1.72	1.52
1:B:1008:A:C1'	1:B:1008:A:N9	1.68	1.52
1:B:1173:U:N1	1:B:1173:U:C1'	1.70	1.52
1:B:1214:A:C1'	1:B:1214:A:N9	1.70	1.52
1:B:1224:U:C1'	1:B:1224:U:N1	1.70	1.52
1:B:1451:C:C4'	1:B:1451:C:C5'	1.80	1.52
1:B:1457:U:N1	1:B:1457:U:C1'	1.68	1.52
1:B:1494:A:C1'	1:B:1494:A:N9	1.69	1.52
1:B:1602:U:N1	1:B:1602:U:C1'	1.70	1.52
1:B:1774:C:N1	1:B:1774:C:C1'	1.72	1.52
1:B:1781:U:N1	1:B:1781:U:C1'	1.70	1.52
1:B:1964:G:C1'	1:B:1964:G:N9	1.72	1.52
1:B:1990:C:N1	1:B:1990:C:C1'	1.71	1.52
1:B:2132:U:N1	1:B:2132:U:C1'	1.68	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2274:A:C1’	1:B:2274:A:N9	1.68	1.52
1:B:2282:G:C1’	1:B:2282:G:N9	1.72	1.52
1:B:2359:C:C1’	1:B:2359:C:N1	1.70	1.52
1:B:2377:A:N9	1:B:2377:A:C1’	1.70	1.52
1:B:2425:A:C1’	1:B:2425:A:N9	1.68	1.52
1:B:2712:C:N1	1:B:2712:C:C1’	1.71	1.52
1:B:2789:C:N1	1:B:2789:C:C1’	1.70	1.52
1:B:84:A:C1’	1:B:84:A:N9	1.68	1.52
1:B:374:A:C1’	1:B:374:A:N9	1.69	1.52
1:B:451:U:N1	1:B:451:U:C1’	1.73	1.52
1:B:545:U:N1	1:B:545:U:C1’	1.70	1.52
1:B:563:A:C1’	1:B:563:A:N9	1.67	1.52
1:B:564:C:N1	1:B:564:C:C1’	1.68	1.52
1:B:586:A:C1’	1:B:586:A:N9	1.73	1.52
1:B:739:A:C1’	1:B:739:A:N9	1.72	1.52
1:B:945:A:C1’	1:B:945:A:N9	1.67	1.52
1:B:990:A:C1’	1:B:990:A:N9	1.71	1.52
1:B:1032:A:C1’	1:B:1032:A:N9	1.69	1.52
1:B:1044:C:N1	1:B:1044:C:C1’	1.70	1.52
1:B:1125:G:C1’	1:B:1125:G:N9	1.72	1.52
1:B:1373:A:N9	1:B:1373:A:C1’	1.68	1.52
1:B:1392:A:N9	1:B:1392:A:C1’	1.68	1.52
1:B:1445:G:C1’	1:B:1445:G:N9	1.71	1.52
1:B:1490:A:C1’	1:B:1490:A:N9	1.67	1.52
1:B:1559:U:N1	1:B:1559:U:C1’	1.69	1.52
1:B:1579:A:C1’	1:B:1579:A:N9	1.67	1.52
1:B:1615:C:N1	1:B:1615:C:C1’	1.71	1.52
1:B:1631:G:C1’	1:B:1631:G:N9	1.70	1.52
1:B:1664:A:C5’	1:B:1664:A:H4’	1.32	1.52
1:B:1762:A:C1’	1:B:1762:A:N9	1.69	1.52
1:B:1784:A:C1’	1:B:1784:A:N9	1.69	1.52
1:B:1970:A:C5’	1:B:1970:A:C4’	1.79	1.52
1:B:2224:G:N9	1:B:2224:G:C1’	1.71	1.52
1:B:2394:C:C5’	1:B:2395:C:H5”	1.38	1.52
1:B:2473:U:N1	1:B:2473:U:C1’	1.70	1.52
1:B:2476:A:C1’	1:B:2476:A:N9	1.67	1.52
1:B:2754:U:N1	1:B:2754:U:C1’	1.70	1.52
1:B:53:A:C1’	1:B:53:A:N9	1.71	1.52
1:B:69:C:C4’	1:B:85:G:H4’	1.34	1.52
1:B:404:A:C1’	1:B:404:A:N9	1.69	1.52
1:B:492:A:C1’	1:B:492:A:N9	1.69	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:507:A:C1’	1:B:507:A:N9	1.72	1.52
1:B:608:A:C1’	1:B:608:A:N9	1.73	1.52
1:B:651:G:C1’	1:B:651:G:N9	1.72	1.52
1:B:776:G:C1’	1:B:776:G:N9	1.71	1.52
1:B:913:U:N1	1:B:913:U:C1’	1.73	1.52
1:B:972:A:C4’	1:B:972:A:C5’	1.87	1.52
1:B:1225:G:N9	1:B:1225:G:C1’	1.72	1.52
1:B:1282:U:N1	1:B:1282:U:C1’	1.69	1.52
1:B:1477:A:C1’	1:B:1477:A:N9	1.72	1.52
1:B:1647:U:N1	1:B:1647:U:C1’	1.70	1.52
1:B:1914:C:N1	1:B:1914:C:C1’	1.71	1.52
1:B:1944:U:C2’	1:B:1945:G:H4’	1.35	1.52
1:B:2005:A:C1’	1:B:2005:A:N9	1.69	1.52
1:B:2233:U:N1	1:B:2233:U:C1’	1.70	1.52
1:B:2483:C:N1	1:B:2483:C:C1’	1.71	1.52
1:B:2681:C:N1	1:B:2681:C:C1’	1.71	1.52
1:B:2752:C:N1	1:B:2752:C:C1’	1.71	1.52
1:B:344:A:C1’	1:B:344:A:N9	1.69	1.52
1:B:345:A:C1’	1:B:345:A:N9	1.68	1.52
1:B:400:G:C1’	1:B:400:G:N9	1.73	1.52
1:B:546:U:N1	1:B:546:U:C1’	1.70	1.52
1:B:561:G:C1’	1:B:561:G:N9	1.70	1.52
1:B:669:G:C4’	1:B:669:G:C5’	1.82	1.52
1:B:890:C:N1	1:B:890:C:C1’	1.70	1.52
1:B:956:G:C1’	1:B:956:G:N9	1.72	1.52
1:B:1009:A:C1’	1:B:1009:A:N9	1.70	1.52
1:B:1024:G:C1’	1:B:1024:G:N9	1.71	1.52
1:B:1129:A:C1’	1:B:1129:A:N9	1.70	1.52
1:B:1352:U:N1	1:B:1352:U:C1’	1.70	1.52
1:B:1383:A:C1’	1:B:1383:A:N9	1.69	1.52
1:B:1856:U:N1	1:B:1856:U:C1’	1.70	1.52
1:B:2086:U:N1	1:B:2086:U:C1’	1.72	1.52
1:B:2116:G:C1’	1:B:2116:G:N9	1.72	1.52
1:B:2214:C:N1	1:B:2214:C:C1’	1.71	1.52
1:B:2270:A:C1’	1:B:2270:A:N9	1.69	1.52
1:B:2306:C:N1	1:B:2306:C:C1’	1.71	1.52
1:B:2452:C:N1	1:B:2452:C:C1’	1.71	1.52
1:B:2454:G:C1’	1:B:2454:G:N9	1.73	1.52
1:B:2573:C:N1	1:B:2573:C:C1’	1.71	1.52
1:B:2725:A:C1’	1:B:2725:A:N9	1.70	1.52
1:B:2871:U:N1	1:B:2871:U:C1’	1.69	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:50:U:N1	1:B:50:U:C1'	1.69	1.51
1:B:198:C:N1	1:B:198:C:C1'	1.71	1.51
1:B:219:A:C1'	1:B:219:A:N9	1.67	1.51
1:B:256:A:N9	1:B:256:A:C1'	1.72	1.51
1:B:422:A:C1'	1:B:422:A:N9	1.67	1.51
1:B:525:U:N1	1:B:525:U:C1'	1.70	1.51
1:B:530:G:C1'	1:B:530:G:N9	1.73	1.51
1:B:547:A:C1'	1:B:547:A:N9	1.68	1.51
1:B:566:U:N1	1:B:566:U:C1'	1.67	1.51
1:B:920:A:C1'	1:B:920:A:N9	1.70	1.51
1:B:960:A:C1'	1:B:960:A:N9	1.69	1.51
1:B:1007:C:N1	1:B:1007:C:C1'	1.70	1.51
1:B:1046:A:C1'	1:B:1046:A:N9	1.68	1.51
1:B:1497:U:N1	1:B:1497:U:C1'	1.69	1.51
1:B:1744:A:C1'	1:B:1744:A:N9	1.69	1.51
1:B:1759:A:C1'	1:B:1759:A:N9	1.67	1.51
1:B:1783:A:N9	1:B:1783:A:C1'	1.68	1.51
1:B:1853:A:C8	1:B:1855:U:C6	1.96	1.51
1:B:1913:A:C1'	1:B:1913:A:N9	1.69	1.51
1:B:1942:C:N1	1:B:1942:C:C1'	1.67	1.51
1:B:1989:G:C1'	1:B:1989:G:N9	1.73	1.51
1:B:2059:A:C1'	1:B:2059:A:N9	1.68	1.51
1:B:2076:U:N1	1:B:2076:U:C1'	1.70	1.51
1:B:2164:C:N1	1:B:2164:C:C1'	1.72	1.51
1:B:2168:G:C1'	1:B:2168:G:N9	1.68	1.51
1:B:2266:A:C1'	1:B:2266:A:N9	1.69	1.51
1:B:2310:C:N1	1:B:2310:C:C1'	1.71	1.51
1:B:2325:G:N9	1:B:2325:G:C1'	1.71	1.51
1:B:2376:A:C1'	1:B:2376:A:N9	1.68	1.51
1:B:2554:U:N1	1:B:2554:U:C1'	1.72	1.51
1:B:2848:G:C3'	1:B:2872:A:H5'	1.34	1.51
1:B:15:G:H5'	1:B:1256:G:C1'	1.38	1.51
1:B:73:A:C4'	1:B:73:A:C5'	1.85	1.51
1:B:164:C:N1	1:B:164:C:C1'	1.71	1.51
1:B:177:G:C1'	1:B:177:G:N9	1.73	1.51
1:B:199:A:C1'	1:B:199:A:N9	1.68	1.51
1:B:202:U:N1	1:B:202:U:C1'	1.70	1.51
1:B:250:G:N9	1:B:250:G:C1'	1.72	1.51
1:B:449:A:C1'	1:B:449:A:N9	1.68	1.51
1:B:480:A:C1'	1:B:480:A:N9	1.69	1.51
1:B:574:A:C5'	1:B:2044:C:H5'	1.41	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:609:A:N9	1:B:609:A:C1'	1.71	1.51
1:B:733:G:C1'	1:B:733:G:N9	1.73	1.51
1:B:821:A:C1'	1:B:821:A:N9	1.69	1.51
1:B:877:A:C1'	1:B:877:A:N9	1.70	1.51
1:B:1188:U:N1	1:B:1188:U:C1'	1.69	1.51
1:B:1360:G:C1'	1:B:1360:G:N9	1.73	1.51
1:B:1396:U:N1	1:B:1396:U:C1'	1.68	1.51
1:B:1439:A:C1'	1:B:1439:A:N9	1.70	1.51
1:B:1456:G:C1'	1:B:1456:G:N9	1.72	1.51
1:B:1524:G:C1'	1:B:1524:G:N9	1.72	1.51
1:B:1552:A:C1'	1:B:1552:A:N9	1.68	1.51
1:B:1722:A:C1'	1:B:1722:A:N9	1.68	1.51
1:B:1723:G:C1'	1:B:1723:G:N9	1.74	1.51
1:B:1745:A:C1'	1:B:1745:A:N9	1.68	1.51
1:B:1802:A:C1'	1:B:1802:A:N9	1.70	1.51
1:B:1816:C:N1	1:B:1816:C:C1'	1.71	1.51
1:B:1854:A:C1'	1:B:1854:A:N9	1.70	1.51
1:B:1900:A:C1'	1:B:1900:A:N9	1.69	1.51
1:B:1954:G:C1'	1:B:1954:G:N9	1.74	1.51
1:B:2051:A:C1'	1:B:2051:A:N9	1.72	1.51
1:B:2061:G:C1'	1:B:2061:G:N9	1.70	1.51
1:B:2114:A:C1'	1:B:2114:A:N9	1.71	1.51
1:B:2170:A:C1'	1:B:2170:A:N9	1.69	1.51
1:B:2244:U:N1	1:B:2244:U:C1'	1.70	1.51
1:B:2311:A:C1'	1:B:2311:A:N9	1.68	1.51
1:B:2345:G:C1'	1:B:2345:G:N9	1.71	1.51
1:B:2356:U:N1	1:B:2356:U:C1'	1.68	1.51
1:B:2375:G:C1'	1:B:2375:G:N9	1.72	1.51
1:B:2628:C:N1	1:B:2628:C:C1'	1.73	1.51
1:B:2798:U:N1	1:B:2798:U:C1'	1.70	1.51
1:B:2849:U:N1	1:B:2849:U:C1'	1.71	1.51
1:B:2904:U:N1	1:B:2904:U:C1'	1.69	1.51
1:B:13:A:C1'	1:B:13:A:N9	1.68	1.51
1:B:213:A:N9	1:B:213:A:C1'	1.71	1.51
1:B:218:A:N9	1:B:218:A:C1'	1.68	1.51
1:B:249:C:N1	1:B:249:C:C1'	1.71	1.51
1:B:307:G:C1'	1:B:307:G:N9	1.73	1.51
1:B:308:G:C1'	1:B:308:G:N9	1.72	1.51
1:B:455:C:N1	1:B:455:C:C1'	1.72	1.51
1:B:488:G:C1'	1:B:488:G:N9	1.72	1.51
1:B:512:G:C1'	1:B:512:G:N9	1.72	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:513:A:C1'	1:B:513:A:N9	1.70	1.51
1:B:642:U:N1	1:B:642:U:C1'	1.70	1.51
1:B:644:A:C1'	1:B:644:A:N9	1.69	1.51
1:B:715:A:C1'	1:B:715:A:N9	1.68	1.51
1:B:819:A:C1'	1:B:819:A:N9	1.69	1.51
1:B:901:C:N1	1:B:901:C:C1'	1.72	1.51
1:B:932:U:N1	1:B:932:U:C1'	1.69	1.51
1:B:984:A:C1'	1:B:984:A:N9	1.68	1.51
1:B:1045:C:N1	1:B:1045:C:C1'	1.69	1.51
1:B:1175:A:C1'	1:B:1175:A:N9	1.68	1.51
1:B:1249:U:N1	1:B:1249:U:C1'	1.69	1.51
1:B:1266:G:C1'	1:B:1266:G:N9	1.72	1.51
1:B:1390:U:N1	1:B:1390:U:C1'	1.70	1.51
1:B:1459:G:C1'	1:B:1459:G:N9	1.71	1.51
1:B:1522:A:C1'	1:B:1522:A:N9	1.72	1.51
1:B:1668:A:N9	1:B:1668:A:C1'	1.69	1.51
1:B:1819:A:N9	1:B:1819:A:C1'	1.69	1.51
1:B:1932:A:C1'	1:B:1932:A:N9	1.69	1.51
1:B:2014:A:C1'	1:B:2014:A:N9	1.68	1.51
1:B:2034:U:N1	1:B:2034:U:C1'	1.70	1.51
1:B:2058:A:C6	1:B:2069:7MG:HM73	1.44	1.51
1:B:2133:G:C1'	1:B:2133:G:N9	1.71	1.51
1:B:2158:A:C1'	1:B:2158:A:N9	1.71	1.51
1:B:2298:A:C1'	1:B:2298:A:N9	1.70	1.51
1:B:2322:A:C1'	1:B:2322:A:N9	1.68	1.51
1:B:2327:A:C1'	1:B:2327:A:N9	1.68	1.51
1:B:2499:C:N1	1:B:2499:C:C1'	1.72	1.51
1:B:2704:C:N1	1:B:2704:C:C1'	1.71	1.51
1:B:2755:C:N1	1:B:2755:C:C1'	1.70	1.51
1:B:2778:A:C1'	1:B:2778:A:N9	1.69	1.51
1:B:2835:A:C1'	1:B:2835:A:N9	1.68	1.51
1:B:2849:U:C4'	1:B:2849:U:C5'	1.85	1.51
1:B:2891:U:N1	1:B:2891:U:C1'	1.69	1.51
1:B:83:A:C1'	1:B:83:A:N9	1.71	1.51
1:B:84:A:C5'	1:B:88:G:H21	1.18	1.51
1:B:141:G:C1'	1:B:141:G:N9	1.71	1.51
1:B:165:A:C1'	1:B:165:A:N9	1.68	1.51
1:B:372:G:C1'	1:B:372:G:N9	1.73	1.51
1:B:571:U:N1	1:B:571:U:C1'	1.70	1.51
1:B:645:C:N1	1:B:645:C:C1'	1.71	1.51
1:B:653:U:N1	1:B:653:U:C1'	1.71	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:716:A:N9	1:B:716:A:C1'	1.68	1.51
1:B:750:A:C1'	1:B:750:A:N9	1.69	1.51
1:B:931:U:N1	1:B:931:U:C1'	1.69	1.51
1:B:1155:A:C1'	1:B:1155:A:N9	1.69	1.51
1:B:1189:A:N9	1:B:1189:A:C1'	1.69	1.51
1:B:1213:A:C1'	1:B:1213:A:N9	1.69	1.51
1:B:1312:U:N1	1:B:1312:U:C1'	1.69	1.51
1:B:1353:A:C1'	1:B:1353:A:N9	1.69	1.51
1:B:1458:U:N1	1:B:1458:U:C1'	1.71	1.51
1:B:1469:A:C1'	1:B:1469:A:N9	1.72	1.51
1:B:1522:A:H3'	1:B:1528:A:C2'	1.35	1.51
1:B:1583:A:C1'	1:B:1583:A:N9	1.67	1.51
1:B:1617:C:N1	1:B:1617:C:C1'	1.71	1.51
1:B:1640:A:C1'	1:B:1640:A:N9	1.68	1.51
1:B:1670:C:N1	1:B:1670:C:C1'	1.73	1.51
1:B:1738:G:C1'	1:B:1738:G:N9	1.72	1.51
1:B:1817:G:C1'	1:B:1817:G:N9	1.69	1.51
1:B:1839:G:C1'	1:B:1839:G:N9	1.73	1.51
1:B:1912:A:C1'	1:B:1912:A:N9	1.69	1.51
1:B:1916:A:C1'	1:B:1916:A:N9	1.69	1.51
1:B:1937:A:C1'	1:B:1937:A:N9	1.67	1.51
1:B:1944:U:N1	1:B:1944:U:C1'	1.71	1.51
1:B:2033:A:C1'	1:B:2033:A:N9	1.69	1.51
1:B:2333:A:C1'	1:B:2333:A:N9	1.69	1.51
1:B:2391:G:C1'	1:B:2391:G:N9	1.72	1.51
1:B:2432:A:C1'	1:B:2432:A:N9	1.68	1.51
1:B:2477:U:N1	1:B:2477:U:C1'	1.69	1.51
1:B:2534:A:C1'	1:B:2534:A:N9	1.69	1.51
1:B:2703:C:N1	1:B:2703:C:C1'	1.68	1.51
1:B:2770:G:C1'	1:B:2770:G:N9	1.70	1.51
1:B:2779:U:N1	1:B:2779:U:C1'	1.70	1.51
1:B:51:G:C1'	1:B:51:G:N9	1.72	1.51
1:B:90:U:N1	1:B:90:U:C1'	1.70	1.51
1:B:178:G:N9	1:B:178:G:C1'	1.73	1.51
1:B:180:G:C1'	1:B:180:G:N9	1.73	1.51
1:B:241:A:C1'	1:B:241:A:N9	1.70	1.51
1:B:318:C:C5'	1:B:319:G:C8	1.88	1.51
1:B:367:G:N9	1:B:367:G:C1'	1.72	1.51
1:B:411:G:C1'	1:B:411:G:N9	1.69	1.51
1:B:423:A:C1'	1:B:423:A:N9	1.70	1.51
1:B:454:A:C1'	1:B:454:A:N9	1.68	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:G:C1’	1:B:481:G:N9	1.72	1.51
1:B:567:U:N1	1:B:567:U:C1’	1.69	1.51
1:B:631:A:C1’	1:B:631:A:N9	1.68	1.51
1:B:788:A:C1’	1:B:788:A:N9	1.69	1.51
1:B:981:A:C1’	1:B:981:A:N9	1.69	1.51
1:B:1111:A:C1’	1:B:1111:A:N9	1.68	1.51
1:B:1134:A:C1’	1:B:1134:A:N9	1.69	1.51
1:B:1272:A:N9	1:B:1272:A:C1’	1.71	1.51
1:B:1348:C:N1	1:B:1348:C:C1’	1.73	1.51
1:B:1377:G:C1’	1:B:1377:G:N9	1.74	1.51
1:B:1428:C:N1	1:B:1428:C:C1’	1.72	1.51
1:B:1510:G:N9	1:B:1510:G:C1’	1.73	1.51
1:B:1534:U:N1	1:B:1534:U:C1’	1.69	1.51
1:B:1633:G:C1’	1:B:1633:G:N9	1.72	1.51
1:B:1674:G:H1’	1:B:1680:U:P	1.47	1.51
1:B:1698:A:C1’	1:B:1698:A:N9	1.69	1.51
1:B:1763:G:C1’	1:B:1763:G:N9	1.74	1.51
1:B:1801:A:C1’	1:B:1801:A:N9	1.72	1.51
1:B:1807:G:C1’	1:B:1807:G:N9	1.73	1.51
1:B:1858:A:C1’	1:B:1858:A:N9	1.70	1.51
1:B:1869:G:C1’	1:B:1869:G:N9	1.74	1.51
1:B:1929:G:C1’	1:B:1929:G:N9	1.73	1.51
1:B:1953:A:N9	1:B:1953:A:C1’	1.70	1.51
1:B:1962:C:N1	1:B:1962:C:C1’	1.71	1.51
1:B:2016:U:N1	1:B:2016:U:C1’	1.70	1.51
1:B:2022:U:N1	1:B:2022:U:C1’	1.72	1.51
1:B:2055:C:N1	1:B:2055:C:C1’	1.74	1.51
1:B:2163:A:C1’	1:B:2163:A:N9	1.68	1.51
1:B:2424:C:N1	1:B:2424:C:C1’	1.73	1.51
1:B:2427:C:N1	1:B:2427:C:C1’	1.70	1.51
1:B:2431:U:C1’	1:B:2431:U:N1	1.70	1.51
1:B:2472:G:C1’	1:B:2472:G:N9	1.73	1.51
1:B:2586:U:N1	1:B:2586:U:C1’	1.70	1.51
1:B:2690:U:H5”	1:B:2691:C:C6	1.46	1.51
1:B:2872:A:C1’	1:B:2872:A:N9	1.74	1.51
1:B:91:A:C1’	1:B:91:A:N9	1.71	1.50
1:B:182:A:N9	1:B:182:A:C1’	1.69	1.50
1:B:228:C:N1	1:B:228:C:C1’	1.71	1.50
1:B:330:A:C1’	1:B:330:A:N9	1.70	1.50
1:B:331:C:N1	1:B:331:C:C1’	1.70	1.50
1:B:429:A:C4’	1:B:429:A:C5’	1.87	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:A:C1’	1:B:514:A:N9	1.71	1.50
1:B:531:C:C1’	1:B:531:C:N1	1.71	1.50
1:B:587:C:N1	1:B:587:C:C1’	1.71	1.50
1:B:613:A:C1’	1:B:613:A:N9	1.68	1.50
1:B:726:G:C1’	1:B:726:G:N9	1.73	1.50
1:B:748:G:C1’	1:B:748:G:N9	1.71	1.50
1:B:1116:G:C1’	1:B:1116:G:N9	1.72	1.50
1:B:1135:C:N1	1:B:1135:C:C1’	1.72	1.50
1:B:1204:A:C1’	1:B:1204:A:N9	1.70	1.50
1:B:1253:A:N9	1:B:1253:A:C1’	1.68	1.50
1:B:1301:A:C1’	1:B:1301:A:N9	1.67	1.50
1:B:1342:A:C1’	1:B:1342:A:N9	1.68	1.50
1:B:1394:U:N1	1:B:1394:U:C1’	1.70	1.50
1:B:1475:G:C1’	1:B:1475:G:N9	1.72	1.50
1:B:1525:A:C1’	1:B:1525:A:N9	1.70	1.50
1:B:1536:C:N1	1:B:1536:C:C1’	1.70	1.50
1:B:1558:C:N1	1:B:1558:C:C1’	1.71	1.50
1:B:1815:A:C1’	1:B:1815:A:N9	1.73	1.50
1:B:1854:A:C4’	1:B:1854:A:C5’	1.87	1.50
1:B:1887:C:N1	1:B:1887:C:C1’	1.72	1.50
1:B:1899:A:C1’	1:B:1899:A:N9	1.68	1.50
1:B:1951:U:N1	1:B:1951:U:C1’	1.70	1.50
1:B:2199:A:N9	1:B:2199:A:C1’	1.69	1.50
1:B:2423:U:N1	1:B:2423:U:C1’	1.71	1.50
1:B:2565:A:C1’	1:B:2565:A:N9	1.70	1.50
1:B:2609:U:N1	1:B:2609:U:C1’	1.69	1.50
1:B:2797:U:N1	1:B:2797:U:C1’	1.70	1.50
1:B:2868:A:C1’	1:B:2868:A:N9	1.70	1.50
1:B:117:G:C1’	1:B:117:G:N9	1.71	1.50
1:B:189:G:C1’	1:B:189:G:N9	1.71	1.50
1:B:242:G:C1’	1:B:242:G:N9	1.73	1.50
1:B:294:A:C1’	1:B:294:A:N9	1.70	1.50
1:B:387:U:N1	1:B:387:U:C1’	1.69	1.50
1:B:389:G:C1’	1:B:389:G:N9	1.72	1.50
1:B:456:C:N1	1:B:456:C:C1’	1.71	1.50
1:B:504:A:C1’	1:B:504:A:N9	1.68	1.50
1:B:612:G:C1’	1:B:612:G:N9	1.72	1.50
1:B:627:A:C1’	1:B:627:A:N9	1.69	1.50
1:B:676:A:C1’	1:B:676:A:N9	1.73	1.50
1:B:933:A:C1’	1:B:933:A:N9	1.69	1.50
1:B:1110:G:C1’	1:B:1110:G:N9	1.72	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1288:G:C1'	1:B:1288:G:N9	1.74	1.50
1:B:1302:A:C1'	1:B:1302:A:N9	1.69	1.50
1:B:1395:A:C1'	1:B:1395:A:N9	1.69	1.50
1:B:1729:U:N1	1:B:1729:U:C1'	1.70	1.50
1:B:1847:A:C1'	1:B:1847:A:N9	1.69	1.50
1:B:1885:A:C1'	1:B:1885:A:N9	1.70	1.50
1:B:2198:A:C1'	1:B:2198:A:N9	1.68	1.50
1:B:2308:G:C1'	1:B:2308:G:N9	1.73	1.50
1:B:2572:A:C1'	1:B:2572:A:N9	1.68	1.50
1:B:2608:G:C1'	1:B:2608:G:N9	1.73	1.50
1:B:2733:A:C1'	1:B:2733:A:N9	1.69	1.50
1:B:2893:A:C1'	1:B:2893:A:N9	1.69	1.50
1:B:244:A:C1'	1:B:244:A:N9	1.70	1.50
1:B:322:A:C1'	1:B:322:A:N9	1.70	1.50
1:B:527:C:N1	1:B:527:C:C1'	1.71	1.50
1:B:538:A:C1'	1:B:538:A:N9	1.70	1.50
1:B:818:G:C1'	1:B:818:G:N9	1.73	1.50
1:B:888:C:C1'	1:B:888:C:N1	1.71	1.50
1:B:92:U:N1	1:B:92:U:C1'	1.69	1.50
1:B:339:U:N1	1:B:339:U:C1'	1.70	1.50
1:B:383:C:N1	1:B:383:C:C1'	1.70	1.50
1:B:405:U:N1	1:B:405:U:C1'	1.69	1.50
1:B:820:A:N9	1:B:820:A:C1'	1.73	1.50
1:B:886:A:C1'	1:B:886:A:N9	1.68	1.50
1:B:979:A:C1'	1:B:979:A:N9	1.69	1.50
1:B:1283:G:C1'	1:B:1283:G:N9	1.71	1.50
1:B:1340:U:N1	1:B:1340:U:C1'	1.71	1.50
1:B:1509:A:C1'	1:B:1509:A:N9	1.68	1.50
1:B:1641:A:C1'	1:B:1641:A:N9	1.71	1.50
1:B:1680:U:N1	1:B:1680:U:C1'	1.74	1.50
1:B:1760:C:N1	1:B:1760:C:C1'	1.71	1.50
1:B:1780:A:C1'	1:B:1780:A:N9	1.68	1.50
1:B:1808:A:C1'	1:B:1808:A:N9	1.68	1.50
1:B:1876:A:N9	1:B:1876:A:C1'	1.70	1.50
1:B:1965:C:N1	1:B:1965:C:C1'	1.71	1.50
1:B:2197:U:N1	1:B:2197:U:C1'	1.70	1.50
1:B:2272:U:N1	1:B:2272:U:C1'	1.70	1.50
1:B:2305:U:N1	1:B:2305:U:C1'	1.71	1.50
1:B:2422:C:N1	1:B:2422:C:C1'	1.71	1.50
1:B:2448:A:C1'	1:B:2448:A:N9	1.70	1.50
1:B:2500:U:N1	1:B:2500:U:C1'	1.70	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2453:A:C1’	1:B:2453:A:N9	1.71	1.50
1:B:2645:G:C1’	1:B:2645:G:N9	1.74	1.50
1:B:2687:U:N1	1:B:2687:U:C1’	1.71	1.50
1:B:2884:U:C1’	1:B:2884:U:N1	1.70	1.50
1:B:2892:G:C1’	1:B:2892:G:N9	1.72	1.50
1:B:1697:G:N9	1:B:1697:G:C1’	1.75	1.50
1:B:1728:C:N1	1:B:1728:C:C1’	1.71	1.50
1:B:2320:U:N1	1:B:2320:U:C1’	1.70	1.50
1:B:2747:G:C1’	1:B:2747:G:N9	1.71	1.50
1:B:2806:C:N1	1:B:2806:C:C1’	1.73	1.50
1:B:2903:U:N1	1:B:2903:U:C1’	1.69	1.50
1:B:138:U:N1	1:B:138:U:C1’	1.71	1.50
1:B:298:G:N9	1:B:298:G:C1’	1.71	1.50
1:B:329:G:N9	1:B:329:G:C1’	1.73	1.50
1:B:401:A:C1’	1:B:401:A:N9	1.69	1.50
1:B:630:G:C1’	1:B:630:G:N9	1.72	1.50
1:B:699:A:C1’	1:B:699:A:N9	1.73	1.50
1:B:961:C:N1	1:B:961:C:C1’	1.71	1.50
1:B:1174:U:C1’	1:B:1174:U:N1	1.70	1.50
1:B:1311:G:C1’	1:B:1311:G:N9	1.72	1.50
1:B:1427:A:C2’	1:B:1430:C:H4’	1.40	1.50
1:B:1537:G:C1’	1:B:1537:G:N9	1.73	1.50
1:B:1653:G:C1’	1:B:1653:G:N9	1.73	1.50
1:B:1654:A:C1’	1:B:1654:A:N9	1.71	1.50
1:B:1691:C:C1’	1:B:1691:C:N1	1.71	1.50
1:B:1694:C:N1	1:B:1694:C:C1’	1.72	1.50
1:B:1721:G:C1’	1:B:1721:G:N9	1.73	1.50
1:B:1740:G:C1’	1:B:1740:G:N9	1.74	1.50
1:B:1752:C:N1	1:B:1752:C:C1’	1.71	1.50
1:B:1963:U:N1	1:B:1963:U:C1’	1.71	1.50
1:B:2068:U:C4’	1:B:2068:U:C5’	1.86	1.50
1:B:2173:A:C1’	1:B:2173:A:N9	1.70	1.50
1:B:2185:U:N1	1:B:2185:U:C1’	1.70	1.50
1:B:2210:U:N1	1:B:2210:U:C1’	1.70	1.50
1:B:2265:U:N1	1:B:2265:U:C1’	1.73	1.50
1:B:2269:G:C1’	1:B:2269:G:N9	1.72	1.50
1:B:2283:C:N1	1:B:2283:C:C1’	1.71	1.50
1:B:2574:G:C1’	1:B:2574:G:N9	1.75	1.50
1:B:2720:U:N1	1:B:2720:U:C1’	1.72	1.50
1:B:112:U:N1	1:B:112:U:C1’	1.68	1.50
1:B:113:U:C4’	1:B:113:U:C5’	1.88	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:207:A:C1’	1:B:207:A:N9	1.70	1.50
1:B:233:A:C1’	1:B:233:A:N9	1.70	1.50
1:B:385:C:C1’	1:B:385:C:N1	1.72	1.50
1:B:448:U:N1	1:B:448:U:C1’	1.72	1.50
1:B:489:G:C1’	1:B:489:G:N9	1.75	1.50
1:B:548:G:C1’	1:B:548:G:N9	1.72	1.50
1:B:636:G:C1’	1:B:636:G:N9	1.73	1.50
1:B:791:C:N1	1:B:791:C:C1’	1.71	1.50
1:B:1000:A:C1’	1:B:1000:A:N9	1.68	1.50
1:B:1039:A:C1’	1:B:1039:A:N9	1.68	1.50
1:B:1371:G:C1’	1:B:1371:G:N9	1.72	1.50
1:B:1609:A:C5’	1:B:1609:A:C4’	1.85	1.50
1:B:1732:C:N1	1:B:1732:C:C1’	1.70	1.50
1:B:1757:A:C1’	1:B:1757:A:N9	1.68	1.50
1:B:1761:C:N1	1:B:1761:C:C1’	1.73	1.50
1:B:2032:G:C1’	1:B:2032:G:N9	1.72	1.50
1:B:2596:U:N1	1:B:2596:U:C1’	1.70	1.50
1:B:2824:C:N1	1:B:2824:C:C1’	1.71	1.50
1:B:60:G:C1’	1:B:60:G:N9	1.74	1.49
1:B:71:A:C1’	1:B:71:A:N9	1.74	1.49
1:B:262:A:H5”	1:B:429:A:C3’	1.42	1.49
1:B:361:G:C1’	1:B:361:G:N9	1.71	1.49
1:B:386:G:C1’	1:B:386:G:N9	1.73	1.49
1:B:447:A:C1’	1:B:447:A:N9	1.69	1.49
1:B:598:U:C5’	1:B:937:C:C5’	1.82	1.49
1:B:619:G:N9	1:B:619:G:C1’	1.74	1.49
1:B:674:G:C1’	1:B:674:G:N9	1.68	1.49
1:B:684:G:N9	1:B:684:G:C1’	1.71	1.49
1:B:725:G:C1’	1:B:725:G:N9	1.76	1.49
1:B:728:G:C1’	1:B:728:G:N9	1.71	1.49
1:B:783:A:C1’	1:B:783:A:N9	1.70	1.49
1:B:805:G:H1’	1:B:1252:G:C5’	1.38	1.49
1:B:806:C:N1	1:B:806:C:C1’	1.71	1.49
1:B:958:U:N1	1:B:958:U:C1’	1.68	1.49
1:B:1048:A:C1’	1:B:1048:A:N9	1.70	1.49
1:B:1050:A:C1’	1:B:1050:A:N9	1.69	1.49
1:B:1109:C:C1’	1:B:1109:C:N1	1.72	1.49
1:B:1358:G:C1’	1:B:1358:G:N9	1.75	1.49
1:B:1544:A:C1’	1:B:1544:A:N9	1.72	1.49
1:B:1664:A:C1’	1:B:1664:A:N9	1.68	1.49
1:B:1814:G:C1’	1:B:1814:G:N9	1.74	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1834:U:N1	1:B:1834:U:C1'	1.70	1.49
1:B:1852:U:N1	1:B:1852:U:C1'	1.71	1.49
1:B:1996:C:N1	1:B:1996:C:C1'	1.71	1.49
1:B:2162:G:C1'	1:B:2162:G:N9	1.72	1.49
1:B:2203:U:N1	1:B:2203:U:C1'	1.69	1.49
1:B:2627:G:C1'	1:B:2627:G:N9	1.73	1.49
1:B:2638:G:C1'	1:B:2638:G:N9	1.73	1.49
1:B:2808:G:C1'	1:B:2808:G:N9	1.72	1.49
1:B:2810:A:C1'	1:B:2810:A:N9	1.68	1.49
1:B:11:C:N1	1:B:11:C:C1'	1.75	1.49
1:B:48:G:C1'	1:B:48:G:N9	1.71	1.49
1:B:118:A:C1'	1:B:118:A:N9	1.75	1.49
1:B:119:A:C4'	1:B:119:A:C5'	1.86	1.49
1:B:168:G:C1'	1:B:168:G:N9	1.72	1.49
1:B:248:G:C1'	1:B:248:G:N9	1.72	1.49
1:B:255:A:C1'	1:B:255:A:N9	1.72	1.49
1:B:435:C:N1	1:B:435:C:C1'	1.71	1.49
1:B:646:U:N1	1:B:646:U:C1'	1.72	1.49
1:B:677:A:C1'	1:B:677:A:N9	1.70	1.49
1:B:810:U:N1	1:B:810:U:C1'	1.74	1.49
1:B:944:C:N1	1:B:944:C:C1'	1.71	1.49
1:B:995:C:N1	1:B:995:C:C1'	1.71	1.49
1:B:1122:G:C1'	1:B:1122:G:N9	1.72	1.49
1:B:1211:C:N1	1:B:1211:C:C1'	1.71	1.49
1:B:1417:C:N1	1:B:1417:C:C1'	1.73	1.49
1:B:1476:U:N1	1:B:1476:U:C1'	1.69	1.49
1:B:1606:C:N1	1:B:1606:C:C1'	1.70	1.49
1:B:1613:G:C1'	1:B:1613:G:N9	1.76	1.49
1:B:1720:U:N1	1:B:1720:U:C1'	1.75	1.49
1:B:1756:G:C1'	1:B:1756:G:N9	1.72	1.49
1:B:1851:U:N1	1:B:1851:U:C1'	1.70	1.49
1:B:1906:G:C8	1:B:1927:A:H3'	1.43	1.49
1:B:1966:A:C1'	1:B:1966:A:N9	1.69	1.49
1:B:2068:U:N1	1:B:2068:U:C1'	1.71	1.49
1:B:2112:G:N9	1:B:2112:G:C1'	1.72	1.49
1:B:2131:U:N1	1:B:2131:U:C1'	1.70	1.49
1:B:2287:A:C1'	1:B:2287:A:N9	1.70	1.49
1:B:2319:G:C1'	1:B:2319:G:N9	1.74	1.49
1:B:2335:A:H2'	1:B:2336:A:C5'	1.39	1.49
1:B:2351:G:C1'	1:B:2351:G:N9	1.75	1.49
1:B:2371:G:C1'	1:B:2371:G:N9	1.72	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2429:G:C1'	1:B:2429:G:N9	1.73	1.49
1:B:2644:G:C1'	1:B:2644:G:N9	1.75	1.49
1:B:2860:A:C1'	1:B:2860:A:N9	1.68	1.49
1:B:221:A:N9	1:B:221:A:C1'	1.74	1.49
1:B:469:G:C1'	1:B:469:G:N9	1.74	1.49
1:B:603:A:C1'	1:B:603:A:N9	1.71	1.49
1:B:633:A:C1'	1:B:633:A:N9	1.68	1.49
1:B:704:G:C1'	1:B:704:G:N9	1.73	1.49
1:B:790:U:C1'	1:B:790:U:N1	1.73	1.49
1:B:941:A:C1'	1:B:941:A:N9	1.69	1.49
1:B:974:G:N9	1:B:974:G:C1'	1.72	1.49
1:B:1012:U:N1	1:B:1012:U:C1'	1.71	1.49
1:B:1426:G:C1'	1:B:1426:G:N9	1.72	1.49
1:B:1451:C:N1	1:B:1451:C:C1'	1.74	1.49
1:B:1493:C:N1	1:B:1493:C:C1'	1.71	1.49
1:B:1514:G:C1'	1:B:1514:G:N9	1.74	1.49
1:B:1553:A:C1'	1:B:1553:A:N9	1.68	1.49
1:B:1554:U:N1	1:B:1554:U:C1'	1.72	1.49
1:B:1690:A:C1'	1:B:1690:A:N9	1.69	1.49
1:B:1731:G:N9	1:B:1731:G:C1'	1.72	1.49
1:B:1952:A:C1'	1:B:1952:A:N9	1.73	1.49
1:B:1968:G:N9	1:B:1968:G:C1'	1.74	1.49
1:B:1977:A:N9	1:B:1977:A:C1'	1.70	1.49
1:B:1992:G:C1'	1:B:1992:G:N9	1.72	1.49
1:B:2475:C:N1	1:B:2475:C:C1'	1.72	1.49
1:B:2530:A:C1'	1:B:2530:A:N9	1.69	1.49
1:B:2553:G:C1'	1:B:2553:G:N9	1.73	1.49
1:B:2610:C:N1	1:B:2610:C:C1'	1.71	1.49
1:B:2683:C:N1	1:B:2683:C:C1'	1.69	1.49
1:B:2702:G:C1'	1:B:2702:G:N9	1.73	1.49
1:B:2775:G:C1'	1:B:2775:G:N9	1.71	1.49
1:B:2825:G:C1'	1:B:2825:G:N9	1.72	1.49
1:B:2858:C:N1	1:B:2858:C:C1'	1.71	1.49
1:B:99:U:C5'	1:B:102:U:H1'	1.41	1.49
1:B:240:C:N1	1:B:240:C:C1'	1.74	1.49
1:B:243:U:N1	1:B:243:U:C1'	1.69	1.49
1:B:263:G:C1'	1:B:263:G:N9	1.72	1.49
1:B:458:G:C1'	1:B:458:G:N9	1.75	1.49
1:B:463:G:N9	1:B:463:G:C1'	1.72	1.49
1:B:556:A:C1'	1:B:556:A:N9	1.69	1.49
1:B:577:G:C1'	1:B:577:G:N9	1.72	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:643:A:C1’	1:B:643:A:N9	1.68	1.49
1:B:655:A:C1’	1:B:655:A:N9	1.71	1.49
1:B:806:C:H3’	1:B:808:G:N7	1.19	1.49
1:B:865:C:N1	1:B:865:C:C1’	1.71	1.49
1:B:866:A:C1’	1:B:866:A:N9	1.75	1.49
1:B:957:C:N1	1:B:957:C:C1’	1.70	1.49
1:B:1187:G:C1’	1:B:1187:G:N9	1.72	1.49
1:B:1226:A:C1’	1:B:1226:A:N9	1.70	1.49
1:B:1560:G:C1’	1:B:1560:G:N9	1.73	1.49
1:B:1934:C:C4’	1:B:1934:C:C5’	1.90	1.49
1:B:2213:U:N1	1:B:2213:U:C1’	1.71	1.49
1:B:2238:G:C1’	1:B:2238:G:N9	1.73	1.49
1:B:2326:C:N1	1:B:2326:C:C1’	1.71	1.49
1:B:2502:G:C1’	1:B:2502:G:N9	1.73	1.49
1:B:2713:U:N1	1:B:2713:U:C1’	1.71	1.49
1:B:2776:A:C1’	1:B:2776:A:N9	1.69	1.49
1:B:12:U:N1	1:B:12:U:C1’	1.72	1.49
1:B:247:G:C1’	1:B:247:G:N9	1.72	1.49
1:B:280:U:N1	1:B:280:U:C1’	1.71	1.49
1:B:602:A:C5’	1:B:602:A:C4’	1.85	1.49
1:B:615:U:N1	1:B:615:U:C1’	1.70	1.49
1:B:713:G:C1’	1:B:713:G:N9	1.72	1.49
1:B:1329:U:N1	1:B:1329:U:C1’	1.70	1.49
1:B:1687:G:C1’	1:B:1687:G:N9	1.73	1.49
1:B:1871:A:C2	1:B:2132:U:H5”	1.47	1.49
1:B:1935:G:C1’	1:B:1935:G:N9	1.76	1.49
1:B:2042:A:C1’	1:B:2042:A:N9	1.69	1.49
1:B:2169:A:C1’	1:B:2169:A:N9	1.69	1.49
1:B:2211:A:C1’	1:B:2211:A:N9	1.69	1.49
1:B:2237:G:C1’	1:B:2237:G:N9	1.72	1.49
1:B:2345:G:C1’	1:B:2382:G:H1’	1.37	1.49
1:B:2493:U:N1	1:B:2493:U:C1’	1.71	1.49
1:B:2583:G:C1’	1:B:2583:G:N9	1.74	1.49
1:B:222:A:C1’	1:B:222:A:N9	1.75	1.48
1:B:369:U:N1	1:B:369:U:C1’	1.73	1.48
1:B:464:U:N1	1:B:464:U:C1’	1.69	1.48
1:B:491:G:C1’	1:B:491:G:N9	1.72	1.48
1:B:506:G:C1’	1:B:506:G:N9	1.73	1.48
1:B:555:G:C1’	1:B:555:G:N9	1.73	1.48
1:B:784:G:C1’	1:B:784:G:N9	1.72	1.48
1:B:1223:G:C1’	1:B:1223:G:N9	1.74	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1452:G:C1'	1:B:1452:G:N9	1.73	1.48
1:B:1673:G:N9	1:B:1673:G:C1'	1.72	1.48
1:B:1758:U:N1	1:B:1758:U:C1'	1.68	1.48
1:B:2104:C:N1	1:B:2104:C:C1'	1.72	1.48
1:B:2275:C:N1	1:B:2275:C:C1'	1.71	1.48
1:B:2629:U:N1	1:B:2629:U:C1'	1.69	1.48
1:B:2688:G:C1'	1:B:2688:G:N9	1.72	1.48
1:B:2777:G:C1'	1:B:2777:G:N9	1.73	1.48
1:B:2857:G:C1'	1:B:2857:G:N9	1.73	1.48
1:B:229:C:N1	1:B:229:C:C1'	1.76	1.48
1:B:368:A:C1'	1:B:368:A:N9	1.74	1.48
1:B:403:U:N1	1:B:403:U:C1'	1.72	1.48
1:B:803:U:N1	1:B:803:U:C1'	1.74	1.48
1:B:836:G:C1'	1:B:836:G:N9	1.73	1.48
1:B:1154:G:C1'	1:B:1154:G:N9	1.73	1.48
1:B:1372:U:N1	1:B:1372:U:C1'	1.71	1.48
1:B:1571:A:C1'	1:B:1571:A:N9	1.70	1.48
1:B:1677:A:C1'	1:B:1677:A:N9	1.69	1.48
1:B:1696:G:C1'	1:B:1696:G:N9	1.72	1.48
1:B:1875:G:N9	1:B:1875:G:C1'	1.71	1.48
1:B:2117:A:C1'	1:B:2117:A:N9	1.71	1.48
1:B:2390:U:N1	1:B:2390:U:C1'	1.70	1.48
1:B:2613:U:N1	1:B:2613:U:C1'	1.70	1.48
1:B:2750:A:N9	1:B:2750:A:C1'	1.73	1.48
1:B:2844:G:C1'	1:B:2844:G:N9	1.68	1.48
1:B:2894:G:C1'	1:B:2894:G:N9	1.74	1.48
1:B:2894:G:H3'	1:B:2895:G:C5'	1.43	1.48
1:B:46:G:C1'	1:B:46:G:N9	1.75	1.48
1:B:124:G:C1'	1:B:124:G:N9	1.71	1.48
1:B:320:A:C1'	1:B:320:A:N9	1.77	1.48
1:B:1236:G:C1'	1:B:1236:G:N9	1.75	1.48
1:B:1379:U:N1	1:B:1379:U:C1'	1.69	1.48
1:B:1523:U:N1	1:B:1523:U:C1'	1.72	1.48
1:B:1568:G:C1'	1:B:1568:G:N9	1.72	1.48
1:B:1838:C:N1	1:B:1838:C:C1'	1.71	1.48
1:B:1855:U:N1	1:B:1855:U:C1'	1.73	1.48
1:B:2253:G:C1'	1:B:2253:G:N9	1.74	1.48
1:B:2361:G:C1'	1:B:2361:G:N9	1.76	1.48
1:B:2382:G:C1'	1:B:2382:G:N9	1.75	1.48
1:B:2686:G:C1'	1:B:2686:G:N9	1.73	1.48
1:B:2763:G:C1'	1:B:2763:G:N9	1.73	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:C:N1	1:B:47:C:C1'	1.72	1.48
1:B:98:G:H2'	1:B:102:U:C6	1.49	1.48
1:B:269:C:N1	1:B:269:C:C1'	1.76	1.48
1:B:277:G:C1'	1:B:277:G:N9	1.75	1.48
1:B:338:G:C1'	1:B:338:G:N9	1.75	1.48
1:B:1142:A:C1'	1:B:1142:A:N9	1.74	1.48
1:B:1248:G:C1'	1:B:1248:G:N9	1.74	1.48
1:B:1364:G:N9	1:B:1364:G:C1'	1.73	1.48
1:B:1427:A:C1'	1:B:1427:A:N9	1.74	1.48
1:B:1527:G:C1'	1:B:1527:G:N9	1.71	1.48
1:B:1944:U:H2'	1:B:1945:G:C5'	1.41	1.48
1:B:2389:G:C1'	1:B:2389:G:N9	1.73	1.48
1:B:2405:G:C1'	1:B:2405:G:N9	1.74	1.48
1:B:2645:G:H5'	1:B:2646:C:C5	1.47	1.48
1:B:162:U:N1	1:B:162:U:C1'	1.70	1.48
1:B:1607:C:C1'	1:B:1607:C:N1	1.72	1.48
1:B:1936:A:C1'	1:B:1936:A:N9	1.73	1.48
1:B:2029:G:C1'	1:B:2029:G:N9	1.72	1.48
1:B:2144:G:C1'	1:B:2144:G:N9	1.73	1.48
1:B:2157:G:C1'	1:B:2157:G:N9	1.73	1.48
1:B:2394:C:N1	1:B:2394:C:C1'	1.74	1.48
1:B:2481:G:C1'	1:B:2481:G:N9	1.72	1.48
1:B:2607:G:N9	1:B:2607:G:C1'	1.75	1.48
1:B:2780:G:C1'	1:B:2780:G:N9	1.72	1.48
1:B:10:A:C1'	1:B:10:A:N9	1.71	1.47
1:B:233:A:H3'	1:B:234:U:C5'	1.42	1.47
1:B:780:G:N9	1:B:780:G:C1'	1.71	1.47
1:B:1140:C:N1	1:B:1140:C:C1'	1.72	1.47
1:B:1671:U:N1	1:B:1671:U:C1'	1.70	1.47
1:B:1699:G:C1'	1:B:1699:G:N9	1.72	1.47
1:B:2307:G:C1'	1:B:2307:G:N9	1.73	1.47
1:B:2719:G:C1'	1:B:2719:G:N9	1.74	1.47
1:B:2867:G:C1'	1:B:2867:G:N9	1.71	1.47
1:B:2890:G:C1'	1:B:2890:G:N9	1.73	1.47
1:B:72:U:N1	1:B:72:U:C1'	1.74	1.47
1:B:183:C:N1	1:B:183:C:C1'	1.73	1.47
1:B:239:C:H3'	1:B:240:C:P	1.53	1.47
1:B:483:A:C3'	1:B:484:C:H5"	1.41	1.47
1:B:510:C:N1	1:B:510:C:C1'	1.73	1.47
1:B:846:U:N1	1:B:846:U:C1'	1.73	1.47
1:B:1115:G:C1'	1:B:1115:G:N9	1.71	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1132:U:N1	1:B:1132:U:C1'	1.72	1.47
1:B:1379:U:H5'	1:B:1380:G:N7	1.16	1.47
1:B:1516:G:C1'	1:B:1516:G:N9	1.74	1.47
1:B:1543:G:C1'	1:B:1543:G:N9	1.73	1.47
1:B:2286:G:N9	1:B:2286:G:C1'	1.73	1.47
1:B:2439:A:C1'	1:B:2439:A:N9	1.69	1.47
1:B:2722:G:N9	1:B:2722:G:C1'	1.73	1.47
1:B:2885:G:N9	1:B:2885:G:C1'	1.71	1.47
1:B:163:C:N1	1:B:163:C:C1'	1.71	1.47
1:B:801:G:C1'	1:B:801:G:N9	1.76	1.47
1:B:830:G:N9	1:B:830:G:C1'	1.73	1.47
1:B:1136:G:C1'	1:B:1136:G:N9	1.72	1.47
1:B:1196:C:N1	1:B:1196:C:C1'	1.73	1.47
1:B:1300:G:C1'	1:B:1300:G:N9	1.75	1.47
1:B:1416:G:C1'	1:B:1416:G:N9	1.72	1.47
1:B:1425:G:C1'	1:B:1425:G:N9	1.74	1.47
1:B:1573:G:C1'	1:B:1573:G:N9	1.72	1.47
1:B:2252:G:C1'	1:B:2252:G:N9	1.72	1.47
1:B:2532:G:C1'	1:B:2532:G:N9	1.72	1.47
1:B:2595:G:N9	1:B:2595:G:C1'	1.73	1.47
1:B:256:A:C3'	1:B:256:A:O3'	1.63	1.47
1:B:785:G:N9	1:B:785:G:C1'	1.73	1.47
1:B:914:G:C1'	1:B:914:G:N9	1.74	1.47
1:B:916:G:C5'	1:B:917:A:H4'	1.41	1.47
1:B:1186:G:C1'	1:B:1186:G:N9	1.73	1.47
1:B:1210:G:C1'	1:B:1210:G:N9	1.72	1.47
1:B:1453:A:C1'	1:B:1453:A:N9	1.73	1.47
1:B:1938:A:C1'	1:B:1938:A:N9	1.75	1.47
1:B:1971:U:C4'	1:B:1971:U:C5'	1.91	1.47
1:B:2015:A:C1'	1:B:2015:A:N9	1.71	1.47
1:B:2018:G:C1'	1:B:2018:G:N9	1.74	1.47
1:B:2035:G:N9	1:B:2035:G:C1'	1.73	1.47
1:B:2834:G:C1'	1:B:2834:G:N9	1.73	1.47
1:B:120:U:N1	1:B:120:U:C1'	1.78	1.47
1:B:537:G:C1'	1:B:537:G:N9	1.75	1.47
1:B:578:G:C1'	1:B:578:G:N9	1.73	1.47
1:B:608:A:H5'	1:B:609:A:C8	1.47	1.47
1:B:620:G:C1'	1:B:620:G:N9	1.73	1.47
1:B:805:G:C1'	1:B:805:G:N9	1.74	1.47
1:B:1250:G:C1'	1:B:1250:G:N9	1.72	1.47
1:B:1299:G:C1'	1:B:1299:G:N9	1.74	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1546:G:C1’	1:B:1546:G:N9	1.76	1.47
1:B:1934:C:C5’	1:B:1934:C:H4’	1.42	1.47
1:B:2741:A:H2’	1:B:2742:G:C5’	1.44	1.47
1:B:2751:G:C1’	1:B:2751:G:N9	1.77	1.47
1:B:2822:G:C1’	1:B:2822:G:N9	1.75	1.47
1:B:75:G:H5”	1:B:113:U:C5’	1.44	1.46
1:B:670:A:C1’	1:B:670:A:N9	1.75	1.46
1:B:1212:G:C1’	1:B:1212:G:N9	1.73	1.46
1:B:1271:G:N9	1:B:1271:G:C1’	1.71	1.46
1:B:1675:C:N1	1:B:1675:C:C1’	1.73	1.46
1:B:1679:A:C3’	1:B:1679:A:O3’	1.63	1.46
1:B:1944:U:H2’	1:B:1945:G:C4’	1.02	1.46
1:B:2021:C:N1	1:B:2021:C:C1’	1.73	1.46
1:B:2118:U:N1	1:B:2118:U:C1’	1.72	1.46
1:B:2125:G:C1’	1:B:2125:G:N9	1.74	1.46
1:B:2134:A:C1’	1:B:2134:A:N9	1.71	1.46
1:B:2597:G:C1’	1:B:2597:G:N9	1.74	1.46
1:B:2685:G:C1’	1:B:2685:G:N9	1.75	1.46
1:B:34:U:N1	1:B:34:U:C1’	1.76	1.46
1:B:64:A:C1’	1:B:64:A:N9	1.73	1.46
1:B:446:G:H5”	1:B:472:A:C5’	1.41	1.46
1:B:465:G:C1’	1:B:465:G:N9	1.76	1.46
1:B:574:A:C1’	1:B:574:A:N9	1.76	1.46
1:B:598:U:C4’	1:B:937:C:H4’	0.99	1.46
1:B:803:U:C3’	1:B:803:U:O3’	1.63	1.46
1:B:1302:A:H4’	1:B:1303:G:C8	1.46	1.46
1:B:1695:G:C1’	1:B:1695:G:N9	1.75	1.46
1:B:2271:G:C1’	1:B:2271:G:N9	1.72	1.46
1:B:2335:A:C2’	1:B:2336:A:H5’	1.38	1.46
1:B:2871:U:H5”	1:B:2872:A:C4	1.50	1.46
1:B:126:A:O3’	1:B:126:A:C3’	1.64	1.46
1:B:220:G:C1’	1:B:220:G:N9	1.74	1.46
1:B:570:G:C1’	1:B:570:G:N9	1.73	1.46
1:B:585:G:C1’	1:B:585:G:N9	1.76	1.46
1:B:1905:C:H4’	1:B:1927:A:C4’	1.44	1.46
1:B:2451:A:O3’	1:B:2451:A:C3’	1.64	1.46
1:B:2859:G:C1’	1:B:2859:G:N9	1.74	1.46
1:B:270:A:C2’	1:B:271:G:H5’	1.42	1.46
1:B:568:U:N1	1:B:568:U:C1’	1.73	1.46
1:B:669:G:C1’	1:B:669:G:N9	1.74	1.46
1:B:1526:C:N1	1:B:1526:C:C1’	1.78	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1681:G:N9	1:B:1681:G:C1'	1.78	1.46
1:B:1870:C:N1	1:B:1870:C:C1'	1.73	1.46
1:B:2365:G:C1'	1:B:2365:G:N9	1.73	1.46
1:B:568:U:C1'	1:B:833:A:H5"	1.44	1.46
1:B:1125:G:O3'	1:B:1125:G:C3'	1.64	1.46
1:B:1328:A:C1'	1:B:1328:A:N9	1.77	1.46
1:B:1854:A:O3'	1:B:1854:A:C3'	1.64	1.46
1:B:762:U:C2'	1:B:763:G:H5'	1.45	1.45
1:B:896:A:C3'	1:B:896:A:O3'	1.64	1.45
1:B:1546:G:O3'	1:B:1546:G:C3'	1.64	1.45
1:B:1856:U:C4'	1:B:1856:U:C5'	1.91	1.45
1:B:1933:G:C1'	1:B:1933:G:N9	1.77	1.45
1:B:2529:G:C1'	1:B:2529:G:N9	1.72	1.45
1:B:2608:G:O3'	1:B:2608:G:C3'	1.64	1.45
1:B:2869:G:C1'	1:B:2869:G:N9	1.76	1.45
1:B:457:A:C1'	1:B:457:A:N9	1.79	1.45
1:B:625:G:C1'	1:B:625:G:N9	1.74	1.45
1:B:728:G:C2'	1:B:729:G:H5'	1.42	1.45
1:B:942:G:N9	1:B:942:G:C1'	1.74	1.45
1:B:1022:G:C1'	1:B:1022:G:N9	1.75	1.45
1:B:1857:G:C1'	1:B:1857:G:N9	1.78	1.45
1:B:2226:C:N1	1:B:2226:C:C1'	1.77	1.45
1:B:60:G:C4'	1:B:60:G:C5'	1.90	1.45
1:B:587:C:O3'	1:B:587:C:C3'	1.63	1.45
1:B:1131:G:C1'	1:B:1131:G:N9	1.77	1.45
1:B:1715:G:C1'	1:B:1715:G:N9	1.72	1.45
1:B:1882:U:C3'	1:B:1883:U:H5"	1.37	1.45
1:B:1891:G:C1'	1:B:1891:G:N9	1.77	1.45
1:B:1934:C:N1	1:B:1934:C:C1'	1.78	1.45
1:B:1941:C:N1	1:B:1941:C:C1'	1.77	1.45
1:B:2469:A:O3'	1:B:2469:A:C3'	1.64	1.45
1:B:2556:C:N1	1:B:2556:C:C1'	1.77	1.45
1:B:53:A:C5'	1:B:53:A:O5'	1.64	1.45
1:B:202:U:O3'	1:B:202:U:C3'	1.64	1.45
1:B:266:G:C5'	1:B:368:A:H5'	1.43	1.45
1:B:861:A:C3'	1:B:861:A:O3'	1.64	1.45
1:B:901:C:H5'	1:B:902:C:C6	1.50	1.45
1:B:1309:G:C1'	1:B:1309:G:N9	1.75	1.45
1:B:1466:U:O3'	1:B:1466:U:C3'	1.65	1.45
1:B:74:A:P	1:B:113:U:H2'	1.56	1.45
1:B:221:A:C2'	1:B:222:A:H3'	1.45	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:432:A:H3'	1:B:433:C:C5'	1.44	1.45
1:B:538:A:H2'	1:B:539:G:C8	1.52	1.45
1:B:685:A:C3'	1:B:685:A:O3'	1.64	1.45
1:B:857:G:C3'	1:B:857:G:O3'	1.65	1.45
1:B:975:A:C3'	1:B:975:A:O3'	1.64	1.45
1:B:1935:G:O3'	1:B:1935:G:C3'	1.64	1.45
1:B:2505:G:C1'	1:B:2505:G:N9	1.79	1.45
1:B:28:A:C5'	1:B:28:A:O5'	1.64	1.44
1:B:46:G:C5'	1:B:46:G:O5'	1.63	1.44
1:B:102:U:N1	1:B:102:U:C1'	1.78	1.44
1:B:240:C:C4'	1:B:275:C:H5"	1.46	1.44
1:B:330:A:C3'	1:B:330:A:O3'	1.65	1.44
1:B:811:U:N1	1:B:811:U:C1'	1.80	1.44
1:B:1116:G:C3'	1:B:1116:G:O3'	1.64	1.44
1:B:1791:A:C8	1:B:1942:C:C5'	2.00	1.44
1:B:76:C:C5	1:B:119:A:H3'	1.51	1.44
1:B:215:G:C5'	1:B:215:G:H4'	0.97	1.44
1:B:221:A:C8	1:B:222:A:H2'	1.53	1.44
1:B:240:C:H4'	1:B:275:C:C5'	1.46	1.44
1:B:470:A:C1'	1:B:470:A:N9	1.80	1.44
1:B:706:A:O3'	1:B:706:A:C3'	1.65	1.44
1:B:2732:G:C1'	1:B:2732:G:N9	1.74	1.44
1:B:1026:G:C1'	1:B:1026:G:N9	1.77	1.44
1:B:2012:G:C1'	1:B:2012:G:N9	1.77	1.44
1:B:2110:G:C1'	1:B:2110:G:N9	1.76	1.44
1:B:262:A:H5'	1:B:429:A:C5'	1.45	1.44
1:B:320:A:H2	1:B:324:A:C8	1.35	1.44
1:B:500:G:C1'	1:B:500:G:N9	1.77	1.44
1:B:1782:U:H2'	1:B:1783:A:C8	1.50	1.44
1:B:9:G:C1'	1:B:9:G:N9	1.79	1.44
1:B:73:A:H3'	1:B:113:U:C1'	1.48	1.44
1:B:573:U:O3'	1:B:573:U:C3'	1.64	1.44
1:B:776:G:O3'	1:B:776:G:C3'	1.66	1.44
1:B:1116:G:H5'	1:B:2749:A:C3'	1.48	1.44
1:B:1325:U:O3'	1:B:1325:U:C3'	1.64	1.44
1:B:1791:A:C8	1:B:1942:C:H4'	1.52	1.44
1:B:1887:C:O3'	1:B:1887:C:C3'	1.66	1.44
1:B:2849:U:H3'	1:B:2872:A:C8	1.50	1.44
1:B:735:A:C3'	1:B:735:A:O3'	1.66	1.43
1:B:1941:C:C3'	1:B:1941:C:O3'	1.63	1.43
1:B:2454:G:C3'	1:B:2454:G:O3'	1.64	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:428:A:C3’	1:B:428:A:O3’	1.63	1.43
1:B:501:A:C3’	1:B:501:A:O3’	1.64	1.43
1:B:941:A:O3’	1:B:941:A:C3’	1.65	1.43
1:B:1853:A:C5’	1:B:1853:A:O5’	1.64	1.43
1:B:1951:U:O3’	1:B:1951:U:C3’	1.65	1.43
1:B:1989:G:C5’	1:B:1989:G:O5’	1.64	1.43
1:B:2498:5MC:N1	1:B:2498:5MC:C1’	1.79	1.43
1:B:64:A:O3’	1:B:64:A:C3’	1.65	1.43
1:B:203:A:O3’	1:B:203:A:C3’	1.66	1.43
1:B:1516:G:O3’	1:B:1516:G:C3’	1.64	1.43
1:B:2322:A:C5’	1:B:2322:A:O5’	1.65	1.43
1:B:2335:A:O3’	1:B:2335:A:C3’	1.66	1.43
1:B:9:G:O3’	1:B:9:G:C3’	1.64	1.43
1:B:761:A:O3’	1:B:761:A:C3’	1.65	1.43
1:B:1674:G:C1’	1:B:1674:G:N9	1.78	1.43
1:B:2055:C:O3’	1:B:2055:C:C3’	1.65	1.43
1:B:2322:A:O3’	1:B:2322:A:C3’	1.65	1.43
1:B:2503:A:H5”	1:B:2504:U:C5’	1.46	1.43
1:B:511:U:O3’	1:B:511:U:C3’	1.65	1.43
1:B:857:G:C5’	1:B:857:G:H4’	1.46	1.43
1:B:971:G:H1’	1:B:972:A:C2	1.54	1.43
1:B:1283:G:O3’	1:B:1283:G:C3’	1.64	1.43
1:B:1480:C:C2’	1:B:1481:U:H5’	1.48	1.43
1:B:1852:U:O3’	1:B:1852:U:C3’	1.64	1.43
1:B:2504:U:O3’	1:B:2504:U:C3’	1.65	1.43
1:B:26:G:C3’	1:B:26:G:O3’	1.66	1.42
1:B:1674:G:C8	1:B:1679:A:H2’	1.54	1.42
1:B:1944:U:C5’	1:B:1944:U:O5’	1.64	1.42
1:B:2424:C:C3’	1:B:2424:C:O3’	1.65	1.42
1:B:84:A:H5”	1:B:88:G:N2	1.22	1.42
1:B:637:A:O3’	1:B:637:A:C3’	1.66	1.42
1:B:861:A:C5’	1:B:862:G:H8	1.31	1.42
1:B:1128:G:C1’	1:B:1128:G:N9	1.82	1.42
1:B:1253:A:C3’	1:B:1253:A:O3’	1.66	1.42
1:B:1942:C:H5’	1:B:2442:C:C5’	1.50	1.42
1:B:2068:U:C5’	1:B:2068:U:O5’	1.67	1.42
1:B:2820:A:O3’	1:B:2820:A:C3’	1.68	1.42
1:B:101:A:C3’	1:B:101:A:O3’	1.67	1.42
1:B:113:U:C5’	1:B:113:U:O5’	1.66	1.42
1:B:322:A:C3’	1:B:322:A:O3’	1.67	1.42
1:B:432:A:C3’	1:B:433:C:H5’	1.49	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:G:C3’	1:B:570:G:O3’	1.65	1.42
1:B:1552:A:C2	1:B:1555:G:H5’	1.52	1.42
1:B:1803:A:C3’	1:B:1803:A:O3’	1.63	1.42
1:B:1990:C:C3’	1:B:1990:C:O3’	1.66	1.42
1:B:2061:G:O3’	1:B:2061:G:C3’	1.65	1.42
1:B:2556:C:C4’	1:B:2557:G:H5”	1.47	1.42
1:B:2872:A:O3’	1:B:2872:A:C3’	1.65	1.42
1:B:216:A:C5’	1:B:218:A:H1’	1.48	1.42
1:B:228:C:H3’	1:B:229:C:C6	1.53	1.42
1:B:1790:C:C3’	1:B:1790:C:O3’	1.67	1.42
1:B:1866:A:O3’	1:B:1866:A:C3’	1.65	1.42
1:B:2394:C:O3’	1:B:2394:C:C3’	1.65	1.42
1:B:214:G:O3’	1:B:214:G:C3’	1.64	1.42
1:B:699:A:O3’	1:B:699:A:C3’	1.64	1.42
1:B:1047:G:C3’	1:B:1047:G:O3’	1.66	1.42
1:B:2327:A:O3’	1:B:2327:A:C3’	1.65	1.42
1:B:221:A:H2’	1:B:222:A:C3’	1.50	1.41
1:B:280:U:O3’	1:B:280:U:C3’	1.65	1.41
1:B:432:A:C3’	1:B:432:A:O3’	1.68	1.41
1:B:783:A:H2’	1:B:784:G:C5’	1.49	1.41
1:B:837:C:C3’	1:B:838:C:H5’	1.46	1.41
1:B:837:C:H1’	1:B:976:G:C8	1.52	1.41
1:B:1288:G:O3’	1:B:1288:G:C3’	1.65	1.41
1:B:1569:A:H8	1:B:1570:A:C3’	1.34	1.41
1:B:1989:G:O3’	1:B:1989:G:C3’	1.63	1.41
1:B:2058:A:C2	1:B:2068:U:H2’	1.55	1.41
1:B:2117:A:H2’	1:B:2172:U:C4	1.53	1.41
1:B:53:A:O3’	1:B:53:A:C3’	1.66	1.41
1:B:137:U:C2’	1:B:1325:U:H5”	1.50	1.41
1:B:190:A:C3’	1:B:190:A:O3’	1.66	1.41
1:B:276:U:C3’	1:B:276:U:O3’	1.64	1.41
1:B:435:C:O3’	1:B:435:C:C3’	1.66	1.41
1:B:477:A:C3’	1:B:477:A:O3’	1.65	1.41
1:B:669:G:O3’	1:B:669:G:C3’	1.68	1.41
1:B:1528:A:O3’	1:B:1528:A:C3’	1.67	1.41
1:B:2846:G:C1’	1:B:2846:G:N9	1.83	1.41
1:B:98:G:C3’	1:B:102:U:H3’	1.48	1.41
1:B:452:G:C1’	1:B:452:G:N9	1.84	1.41
1:B:859:G:C5’	1:B:860:U:C5	2.00	1.41
1:B:1476:U:C3’	1:B:1516:G:H5”	1.49	1.41
1:B:1791:A:C1’	1:B:1791:A:N9	1.83	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1932:A:C3'	1:B:1932:A:O3'	1.65	1.41
1:B:118:A:O3'	1:B:118:A:C3'	1.69	1.41
1:B:1944:U:C2'	1:B:1945:G:C5'	1.96	1.41
1:B:2653:U:N1	1:B:2653:U:C1'	1.82	1.41
1:B:99:U:P	1:B:102:U:H2'	1.59	1.41
1:B:320:A:C5'	1:B:320:A:O5'	1.65	1.41
1:B:1609:A:C3'	1:B:1609:A:O3'	1.67	1.41
1:B:1847:A:O3'	1:B:1847:A:C3'	1.66	1.41
1:B:1853:A:C2'	1:B:1888:G:C8	2.03	1.41
1:B:1969:A:C3'	1:B:1969:A:O3'	1.66	1.41
1:B:50:U:C3'	1:B:50:U:O3'	1.68	1.40
1:B:51:G:C5'	1:B:51:G:O5'	1.67	1.40
1:B:2060:A:C1'	1:B:2060:A:N9	1.80	1.40
1:B:2076:U:O3'	1:B:2076:U:C3'	1.65	1.40
1:B:456:C:O3'	1:B:456:C:C3'	1.66	1.40
1:B:811:U:C3'	1:B:811:U:O3'	1.66	1.40
1:B:1445:G:O3'	1:B:1445:G:C3'	1.67	1.40
1:B:1567:G:C1'	1:B:1567:G:N9	1.81	1.40
1:B:1569:A:C8	1:B:1570:A:H3'	1.57	1.40
1:B:1973:G:H4'	1:B:2062:A:C2	1.55	1.40
1:B:1451:C:O3'	1:B:1451:C:C3'	1.66	1.40
1:B:1528:A:C1'	1:B:1528:A:N9	1.81	1.40
1:B:1572:A:O3'	1:B:1572:A:C3'	1.66	1.40
1:B:1790:C:H5"	1:B:2443:C:C5'	1.50	1.40
1:B:1906:G:H5'	1:B:1928:A:P	1.59	1.40
1:B:2453:A:C5'	1:B:2453:A:O5'	1.67	1.40
1:B:1050:A:O3'	1:B:1050:A:C3'	1.69	1.40
1:B:1419:A:O3'	1:B:1419:A:C3'	1.70	1.40
1:B:1668:A:H5"	1:B:1669:A:C8	1.55	1.40
1:B:2903:U:C5'	1:B:2903:U:H4'	0.92	1.40
1:B:73:A:C5'	1:B:113:U:C6	2.03	1.40
1:B:92:U:C2'	1:B:498:G:H2'	1.52	1.40
1:B:429:A:C5'	1:B:429:A:O5'	1.68	1.40
1:B:1480:C:C2'	1:B:1481:U:C5'	1.97	1.40
1:B:1971:U:C5'	1:B:1971:U:O5'	1.68	1.40
1:B:2382:G:C5'	1:B:2382:G:O5'	1.65	1.40
1:B:73:A:H3'	1:B:113:U:C2'	1.50	1.39
1:B:100:U:N3	1:B:113:U:H4'	1.32	1.39
1:B:320:A:C2	1:B:324:A:C8	2.10	1.39
1:B:368:A:C3'	1:B:368:A:O3'	1.70	1.39
1:B:2060:A:C5'	1:B:2446:G:H5"	1.52	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2713:U:C3'	1:B:2713:U:O3'	1.69	1.39
1:B:449:A:O3'	1:B:449:A:C3'	1.70	1.39
1:B:1829:A:N6	1:B:1970:A:H1'	1.29	1.39
1:B:2766:A:H2'	1:B:2767:C:C5'	1.51	1.39
1:B:1348:C:C5'	1:B:1348:C:O5'	1.69	1.39
1:B:52:A:C5'	1:B:52:A:O5'	1.67	1.39
1:B:1025:G:H5'	1:B:2469:A:C2	1.58	1.39
1:B:2726:A:O3'	1:B:2726:A:C3'	1.68	1.39
1:B:120:U:C5'	1:B:120:U:H4'	1.42	1.39
1:B:141:G:O6	1:B:1324:G:H1'	1.22	1.39
1:B:2012:G:O3'	1:B:2012:G:C3'	1.68	1.39
1:B:2103:C:C3'	1:B:2104:C:H5"	1.47	1.39
1:B:324:A:C4'	1:B:324:A:C5'	1.99	1.38
1:B:532:A:H3'	1:B:533:G:C5'	1.50	1.38
1:B:535:G:C5'	1:B:950:G:H4'	1.52	1.38
1:B:2058:A:N1	1:B:2068:U:H2'	1.38	1.38
1:B:1854:A:C5'	1:B:1888:G:C1'	2.00	1.38
1:B:2199:A:C2'	1:B:2200:C:H5'	1.50	1.38
1:B:2452:C:O3'	1:B:2452:C:C3'	1.71	1.38
1:B:52:A:O3'	1:B:52:A:C3'	1.71	1.38
1:B:98:G:C3'	1:B:98:G:O3'	1.70	1.38
1:B:574:A:H5"	1:B:2044:C:C5'	1.53	1.38
1:B:1610:A:O3'	1:B:1610:A:C3'	1.71	1.38
1:B:1828:G:O3'	1:B:1828:G:C3'	1.72	1.38
1:B:2058:A:N6	1:B:2068:U:C2	1.90	1.38
1:B:2505:G:O3'	1:B:2505:G:C3'	1.68	1.38
1:B:2629:U:C3'	1:B:2630:G:H5"	1.52	1.38
1:B:64:A:H8	1:B:66:C:N4	1.21	1.38
1:B:619:G:H1'	1:B:621:A:C4	1.57	1.38
1:B:803:U:C5	1:B:1254:A:H3'	1.58	1.38
1:B:1672:A:C1'	1:B:1672:A:N9	1.86	1.38
1:B:1853:A:H8	1:B:1855:U:C6	1.31	1.38
1:B:1934:C:O3'	1:B:1934:C:C3'	1.68	1.38
1:B:1971:U:C3'	1:B:1971:U:O3'	1.69	1.38
1:B:2453:A:O3'	1:B:2453:A:C3'	1.69	1.38
1:B:684:G:C3'	1:B:684:G:O3'	1.71	1.38
1:B:1028:A:O3'	1:B:1028:A:C3'	1.69	1.38
1:B:1327:A:C3'	1:B:1327:A:O3'	1.71	1.38
1:B:1565:C:O2'	1:B:1566:A:H5'	1.22	1.38
1:B:1905:C:H3'	1:B:1928:A:C5'	1.49	1.38
1:B:223:A:C8	1:B:279:A:H5"	1.57	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:845:A:O3’	1:B:845:A:C3’	1.69	1.37
1:B:324:A:C1’	1:B:324:A:N9	1.86	1.37
1:B:335:C:H4’	1:B:341:C:N4	1.34	1.37
1:B:2111:U:H6	1:B:2112:G:C5’	1.34	1.37
1:B:2378:A:H5’	1:B:2379:G:C8	1.59	1.37
1:B:2849:U:C5’	1:B:2849:U:O5’	1.70	1.37
1:B:112:U:O3’	1:B:112:U:C3’	1.72	1.37
1:B:670:A:O3’	1:B:670:A:C3’	1.67	1.37
1:B:1327:A:C5’	1:B:1327:A:O5’	1.70	1.37
1:B:1856:U:C5’	1:B:1856:U:O5’	1.72	1.37
1:B:2751:G:C5’	1:B:2751:G:O5’	1.70	1.37
1:B:72:U:C3’	1:B:72:U:O3’	1.68	1.37
1:B:803:U:C6	1:B:1254:A:H3’	1.58	1.37
1:B:901:C:C5’	1:B:902:C:C5	2.06	1.37
1:B:926:G:O3’	1:B:927:A:H4’	1.22	1.37
1:B:1326:U:C3’	1:B:1326:U:O3’	1.72	1.37
1:B:1572:A:N6	1:B:1574:C:H5	1.19	1.37
1:B:27:G:O3’	1:B:27:G:C3’	1.69	1.37
1:B:168:G:O3’	1:B:168:G:C3’	1.71	1.37
1:B:1476:U:H3’	1:B:1516:G:C5’	1.55	1.37
1:B:1942:C:O3’	1:B:1942:C:C3’	1.70	1.37
1:B:127:A:H5’	1:B:128:C:C5	1.58	1.36
1:B:233:A:C3’	1:B:234:U:H5”	1.51	1.36
1:B:240:C:C3’	1:B:275:C:H5”	1.51	1.36
1:B:294:A:C5’	1:B:294:A:O5’	1.71	1.36
1:B:1609:A:C5’	1:B:1609:A:O5’	1.71	1.36
1:B:1853:A:C1’	1:B:1853:A:N9	1.86	1.36
1:B:1970:A:C3’	1:B:1970:A:O3’	1.71	1.36
1:B:586:A:C3’	1:B:586:A:O3’	1.70	1.36
1:B:669:G:C5’	1:B:669:G:O5’	1.70	1.36
1:B:793:A:O3’	1:B:793:A:C3’	1.73	1.36
1:B:1116:G:C5’	1:B:2749:A:H3’	1.54	1.36
1:B:1943:U:O3’	1:B:1943:U:C3’	1.73	1.36
1:B:275:C:O3’	1:B:275:C:C3’	1.74	1.36
1:B:744:U:H2’	1:B:748:G:C5’	1.51	1.36
1:B:1047:G:H5”	1:B:1049:C:C2’	1.56	1.36
1:B:1302:A:O3’	1:B:1302:A:C3’	1.74	1.36
1:B:1522:A:C3’	1:B:1528:A:H2’	1.51	1.36
1:B:1566:A:O3’	1:B:1566:A:C3’	1.72	1.36
1:B:1932:A:C5’	1:B:1932:A:O5’	1.74	1.36
1:B:2067:G:H5”	1:B:2439:A:O5’	1.25	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:U:C5’	1:B:120:U:O5’	1.71	1.36
1:B:746:PSU:H5”	1:B:747:5MU:C5M	1.53	1.36
1:B:1427:A:O3’	1:B:1427:A:C3’	1.70	1.36
1:B:1428:C:O3’	1:B:1428:C:C3’	1.72	1.36
1:B:2879:A:H5”	1:B:2880:C:C5	1.61	1.36
1:B:53:A:C5’	1:B:53:A:H4’	1.45	1.36
1:B:75:G:C5’	1:B:75:G:C4’	2.03	1.36
1:B:598:U:H4’	1:B:937:C:C4’	0.89	1.36
1:B:764:A:H1’	1:B:765:C:C5	1.59	1.36
1:B:802:A:O3’	1:B:802:A:C3’	1.72	1.36
1:B:972:A:C5’	1:B:972:A:O5’	1.71	1.36
1:B:1290:C:H5”	1:B:1646:C:C4’	1.54	1.36
1:B:2052:A:C5’	1:B:2608:G:H5”	1.54	1.36
1:B:310:A:H2’	1:B:483:A:C6	1.59	1.35
1:B:916:G:O3’	1:B:916:G:C3’	1.73	1.35
1:B:1855:U:O3’	1:B:1855:U:C3’	1.73	1.35
1:B:2103:C:H3’	1:B:2104:C:C5’	1.54	1.35
1:B:2652:C:H3’	1:B:2653:U:P	1.66	1.35
1:B:94:A:C3’	1:B:94:A:O3’	1.74	1.35
1:B:99:U:N1	1:B:99:U:C1’	1.88	1.35
1:B:452:G:H5’	1:B:453:A:C5’	1.54	1.35
1:B:860:U:H5”	1:B:861:A:OP2	1.25	1.35
1:B:1425:G:H3’	1:B:1567:G:C8	1.58	1.35
1:B:2382:G:C3’	1:B:2382:G:O3’	1.72	1.35
1:B:2750:A:C3’	1:B:2750:A:O3’	1.70	1.35
1:B:2780:G:H5”	1:B:2781:A:C8	1.58	1.35
1:B:320:A:H2’	1:B:324:A:C3’	1.57	1.35
1:B:1032:A:C8	1:B:1127:A:H1’	1.60	1.35
1:B:1857:G:C5’	1:B:1857:G:O5’	1.73	1.35
1:B:1932:A:P	1:B:1935:G:H5’	1.66	1.35
1:B:14:A:O3’	1:B:14:A:C3’	1.73	1.35
1:B:525:U:O3’	1:B:525:U:C3’	1.72	1.35
1:B:1598:A:O3’	1:B:1598:A:C3’	1.73	1.35
1:B:15:G:C5’	1:B:1197:G:N3	1.86	1.35
1:B:51:G:O3’	1:B:51:G:C3’	1.73	1.35
1:B:478:A:O3’	1:B:478:A:C3’	1.72	1.35
1:B:1117:C:C5’	1:B:2751:G:H5’	1.54	1.35
1:B:1499:C:O2’	1:B:1500:G:H5’	1.26	1.35
1:B:1673:G:C3’	1:B:1673:G:O3’	1.75	1.35
1:B:113:U:C3’	1:B:113:U:O3’	1.72	1.34
1:B:916:G:H4’	1:B:917:A:C5’	1.57	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1307:A:H4'	1:B:1308:A:C5'	1.54	1.34
1:B:73:A:C5'	1:B:73:A:O5'	1.72	1.34
1:B:239:C:C5	1:B:276:U:H5'	1.62	1.34
1:B:1791:A:H2'	1:B:1934:C:C5	1.62	1.34
1:B:2406:A:C3'	1:B:2406:A:O3'	1.75	1.34
1:B:2848:G:H2'	1:B:2872:A:O5'	1.27	1.34
1:B:67:U:C5	1:B:69:C:OP1	1.79	1.34
1:B:574:A:C1'	1:B:2039:U:H5"	1.56	1.34
1:B:2030:1MA:C1'	1:B:2030:1MA:N9	1.91	1.34
1:B:76:C:C6	1:B:119:A:H3'	1.62	1.34
1:B:332:A:H5"	1:B:333:G:N7	1.42	1.34
1:B:1197:G:C1'	1:B:1197:G:N9	1.90	1.34
1:B:1568:G:H1'	1:B:1575:C:N4	1.39	1.34
1:B:1608:A:O3'	1:B:1608:A:C3'	1.76	1.34
1:B:1618:1MA:C1'	1:B:1618:1MA:N9	1.90	1.34
1:B:1891:G:H5"	1:B:1892:C:C5	1.62	1.34
1:B:2344:U:H2'	1:B:2345:G:OP2	1.27	1.34
1:B:28:A:O3'	1:B:28:A:C3'	1.73	1.33
1:B:457:A:C2	1:B:458:G:H3'	1.62	1.33
1:B:739:A:C3'	1:B:740:C:H5'	1.55	1.33
1:B:1289:C:C6	1:B:1648:U:H4'	1.62	1.33
1:B:2497:A:C3'	1:B:2497:A:O3'	1.73	1.33
1:B:100:U:C2	1:B:113:U:H4'	1.61	1.33
1:B:270:A:C3'	1:B:270:A:O3'	1.74	1.33
1:B:585:G:O3'	1:B:585:G:C3'	1.74	1.33
1:B:588:U:C3'	1:B:588:U:O3'	1.76	1.33
1:B:646:U:H3'	1:B:647:G:C5'	1.57	1.33
1:B:859:G:N2	1:B:912:C:C5	1.95	1.33
1:B:1905:C:C5'	1:B:1927:A:H4'	1.58	1.33
1:B:1931:U:C3'	1:B:1931:U:O3'	1.75	1.33
1:B:744:U:H2'	1:B:748:G:C4'	1.57	1.33
1:B:1627:G:C1'	1:B:1641:A:H8	1.41	1.33
1:B:1668:A:C5'	1:B:1669:A:C8	2.09	1.33
1:B:2060:A:O3'	1:B:2060:A:C3'	1.73	1.33
1:B:2076:U:H4'	1:B:2077:A:C8	1.64	1.33
1:B:2147:A:H5'	1:B:2148:G:C8	1.63	1.33
1:B:2556:C:H4'	1:B:2557:G:C5'	1.58	1.33
1:B:507:A:C2	1:B:518:G:H5'	1.62	1.33
1:B:2062:A:O3'	1:B:2062:A:C3'	1.73	1.33
1:B:2752:C:C3'	1:B:2752:C:O3'	1.77	1.33
1:B:857:G:C5'	1:B:857:G:O5'	1.74	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1302:A:H4'	1:B:1303:G:N7	1.38	1.33
1:B:1668:A:C5'	1:B:1669:A:H8	1.41	1.33
1:B:1933:G:C3'	1:B:1933:G:O3'	1.77	1.33
1:B:1936:A:C8	1:B:1938:A:H2'	1.64	1.33
1:B:2060:A:C4'	1:B:2446:G:H5"	1.57	1.33
1:B:2394:C:H4'	1:B:2395:C:C5'	1.58	1.33
1:B:2848:G:C3'	1:B:2848:G:O3'	1.74	1.33
1:B:728:G:H2'	1:B:729:G:C5'	1.59	1.32
1:B:1025:G:C5'	1:B:2468:A:H5"	1.56	1.32
1:B:1790:C:C5'	1:B:2443:C:C5'	2.06	1.32
1:B:2060:A:C6	1:B:2448:A:H1'	1.64	1.32
1:B:60:G:C5'	1:B:60:G:O5'	1.76	1.32
1:B:365:U:OP1	1:B:368:A:H8	1.09	1.32
1:B:512:G:C2'	1:B:513:A:H5"	1.60	1.32
1:B:602:A:C5'	1:B:602:A:O5'	1.75	1.32
1:B:913:U:H5	1:B:917:A:C8	1.48	1.32
1:B:2726:A:C4'	1:B:2727:A:C5'	2.07	1.32
1:B:2846:G:C5'	1:B:2848:G:C1'	2.07	1.32
1:B:2894:G:C3'	1:B:2895:G:H5"	1.57	1.32
1:B:15:G:C5'	1:B:15:G:O5'	1.77	1.32
1:B:73:A:C3'	1:B:73:A:O3'	1.74	1.32
1:B:2076:U:H5"	1:B:2077:A:C8	1.63	1.32
1:B:294:A:P	1:B:295:G:H8	1.53	1.32
1:B:318:C:H5'	1:B:319:G:N7	1.44	1.32
1:B:837:C:C3'	1:B:838:C:C5'	2.03	1.32
1:B:1050:A:C5'	1:B:1051:G:H5"	1.60	1.32
1:B:1853:A:H2'	1:B:1888:G:N9	1.42	1.32
1:B:2320:U:H5"	1:B:2322:A:C5'	1.56	1.32
1:B:10:A:H2'	1:B:11:C:C5'	1.57	1.32
1:B:300:A:O3'	1:B:300:A:C3'	1.74	1.32
1:B:1419:A:C2	1:B:1573:G:H5"	1.63	1.32
1:B:2111:U:C6	1:B:2112:G:C5'	2.11	1.32
1:B:1933:G:H5"	1:B:1941:C:O4'	1.16	1.31
1:B:2849:U:O4'	1:B:2872:A:H2'	1.25	1.31
1:B:113:U:C1'	1:B:113:U:N1	1.92	1.31
1:B:1275:A:OP1	1:B:1288:G:H5"	1.30	1.31
1:B:1626:A:O3'	1:B:1626:A:C3'	1.77	1.31
1:B:1905:C:H3'	1:B:1928:A:O5'	1.19	1.31
1:B:239:C:C3'	1:B:240:C:P	2.18	1.31
1:B:684:G:H2'	1:B:788:A:C2	1.64	1.31
1:B:1674:G:C8	1:B:1675:C:C5'	2.13	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2112:G:C3'	1:B:2112:G:O3'	1.79	1.31
1:B:11:C:O3'	1:B:11:C:C3'	1.76	1.31
1:B:483:A:C3'	1:B:483:A:O3'	1.79	1.31
1:B:1584:U:H1'	1:B:1635:A:C5'	1.60	1.31
1:B:1791:A:C8	1:B:1942:C:C4'	2.14	1.31
1:B:2111:U:N1	1:B:2111:U:C1'	1.94	1.31
1:B:77:G:H3'	1:B:99:U:C1'	1.60	1.31
1:B:1048:A:H5'	1:B:1049:C:C1'	1.58	1.31
1:B:1572:A:N6	1:B:1573:G:H4'	1.46	1.31
1:B:1932:A:C5'	1:B:1932:A:H4'	1.45	1.31
1:B:608:A:H1'	1:B:610:C:N4	1.45	1.30
1:B:2068:U:O3'	1:B:2068:U:C3'	1.78	1.30
1:B:1803:A:H5"	1:B:1804:C:C6	1.66	1.30
1:B:1829:A:H62	1:B:1970:A:C1'	1.44	1.30
1:B:1905:C:C4'	1:B:1927:A:C4'	2.02	1.30
1:B:1996:C:O3'	1:B:1996:C:C3'	1.78	1.30
1:B:1130:U:C5	1:B:2749:A:H1'	1.65	1.30
1:B:568:U:C2	1:B:833:A:H5'	1.67	1.30
1:B:802:A:H3'	1:B:1254:A:C5'	1.60	1.30
1:B:802:A:H3'	1:B:1254:A:O5'	1.21	1.30
1:B:1552:A:N1	1:B:1555:G:H5'	1.46	1.30
1:B:1787:A:H1'	1:B:2557:G:OP2	1.20	1.30
1:B:1882:U:H3'	1:B:1883:U:C5'	1.61	1.30
1:B:1934:C:C5'	1:B:1934:C:O5'	1.80	1.30
1:B:2111:U:H1'	1:B:2112:G:C3'	1.58	1.30
1:B:257:C:C2'	1:B:258:G:H5'	1.59	1.30
1:B:600:G:H4'	1:B:602:A:O3'	1.25	1.30
1:B:239:C:C5'	1:B:274:C:O3'	1.80	1.29
1:B:1130:U:O3'	1:B:1130:U:C3'	1.79	1.29
1:B:1290:C:C5'	1:B:1646:C:H4'	1.59	1.29
1:B:507:A:C5	1:B:518:G:H4'	1.67	1.29
1:B:1128:G:H4'	1:B:2751:G:C2'	1.59	1.29
1:B:1134:A:H2'	1:B:1140:C:O2'	1.27	1.29
1:B:1347:A:H5'	1:B:1348:C:C5'	1.62	1.29
1:B:1348:C:O2'	1:B:1349:C:H6	1.13	1.29
1:B:2365:G:H4'	1:B:2366:A:C1'	1.60	1.29
1:B:73:A:C5'	1:B:113:U:C1'	2.09	1.29
1:B:1426:G:H5'	1:B:1572:A:C1'	1.62	1.29
1:B:2158:A:C2'	1:B:2159:G:H5'	1.61	1.29
1:B:457:A:C8	1:B:657:U:H5"	1.66	1.29
1:B:525:U:C3'	1:B:811:U:C6	2.16	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1751:U:H5”	1:B:1752:C:O5’	1.30	1.29
1:B:2868:A:H8	1:B:2871:U:C2’	1.46	1.29
1:B:913:U:C5	1:B:917:A:C8	2.21	1.29
1:B:1790:C:O5’	1:B:2443:C:H5”	1.17	1.29
1:B:1905:C:H5”	1:B:1927:A:O3’	1.14	1.29
1:B:457:A:H3’	1:B:458:G:O3’	1.33	1.28
1:B:1021:A:C2	1:B:1022:G:H3’	1.66	1.28
1:B:1117:C:P	1:B:2750:A:H3’	1.72	1.28
1:B:608:A:C1’	1:B:610:C:H41	1.46	1.28
1:B:706:A:H1’	1:B:707:G:N7	1.46	1.28
1:B:1189:A:O3’	1:B:1190:G:H5’	1.33	1.28
1:B:1933:G:C5’	1:B:1941:C:H6	1.44	1.28
1:B:2052:A:H5’	1:B:2608:G:C5’	1.63	1.28
1:B:2394:C:H5”	1:B:2395:C:C5’	1.63	1.28
1:B:2867:G:H8	1:B:2868:A:C2	1.51	1.28
1:B:98:G:H3’	1:B:102:U:O3’	1.31	1.28
1:B:202:U:O2’	1:B:204:A:H1’	1.33	1.28
1:B:620:G:H5’	1:B:621:A:N7	1.44	1.28
1:B:1905:C:H5”	1:B:1928:A:P	1.70	1.28
1:B:2104:C:H4’	1:B:2105:U:C5	1.67	1.28
1:B:2199:A:H2’	1:B:2200:C:C5’	1.62	1.28
1:B:77:G:H5”	1:B:99:U:C6	1.67	1.28
1:B:239:C:H3’	1:B:240:C:OP1	1.28	1.28
1:B:1284:A:P	1:B:2012:G:H2’	1.72	1.28
1:B:1608:A:C2	1:B:1622:G:H5”	1.66	1.28
1:B:1751:U:H5”	1:B:1752:C:C5’	1.62	1.28
1:B:2571:U:H5”	1:B:2647:U:C4’	1.64	1.28
1:B:2849:U:O5’	1:B:2872:A:H3’	1.21	1.28
1:B:45:G:H5”	1:B:46:G:O5’	1.19	1.28
1:B:60:G:O3’	1:B:60:G:C3’	1.80	1.28
1:B:141:G:H2’	1:B:1331:G:O2’	1.32	1.28
1:B:525:U:H3’	1:B:811:U:C6	1.68	1.28
1:B:760:G:H4’	1:B:761:A:O5’	1.27	1.28
1:B:76:C:C5	1:B:119:A:C2’	2.16	1.27
1:B:202:U:OP2	1:B:204:A:H5’	1.25	1.27
1:B:764:A:C5’	1:B:765:C:H5’	1.63	1.27
1:B:914:G:H1’	1:B:917:A:OP2	1.27	1.27
1:B:1630:A:H5”	1:B:1631:G:OP2	1.26	1.27
1:B:1791:A:N3	1:B:1934:C:C6	2.01	1.27
1:B:1445:G:C5’	1:B:1446:C:C5	2.16	1.27
1:B:320:A:O3’	1:B:324:A:H2’	1.31	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:320:A:H1'	1:B:325:G:OP1	1.33	1.27
1:B:324:A:C5'	1:B:324:A:O5'	1.82	1.27
1:B:760:G:C5'	1:B:761:A:H5'	1.62	1.27
1:B:1626:A:C4'	1:B:1627:G:H5'	1.62	1.27
1:B:2848:G:C2'	1:B:2872:A:H5'	1.61	1.27
1:B:73:A:C5'	1:B:113:U:H6	1.42	1.27
1:B:76:C:C5	1:B:119:A:O2'	1.84	1.27
1:B:98:G:C2'	1:B:102:U:H3'	1.63	1.27
1:B:570:G:O3'	1:B:570:G:H3'	1.15	1.27
1:B:762:U:O3'	1:B:762:U:C3'	1.83	1.27
1:B:799:G:OP1	1:B:800:A:H1'	1.24	1.27
1:B:2849:U:C6	1:B:2872:A:C1'	2.16	1.27
1:B:75:G:H4'	1:B:100:U:C6	1.69	1.27
1:B:498:G:C3'	1:B:498:G:O3'	1.83	1.27
1:B:513:A:C8	1:B:514:A:H5'	1.70	1.27
1:B:637:A:H5"	1:B:638:G:C8	1.69	1.27
1:B:859:G:C5'	1:B:860:U:H5	1.38	1.27
1:B:1934:C:P	1:B:1941:C:H1'	1.73	1.27
1:B:71:A:H3'	1:B:105:C:OP1	1.34	1.26
1:B:144:A:H4'	1:B:1327:A:C5'	1.65	1.26
1:B:255:A:C8	1:B:275:C:O2'	1.87	1.26
1:B:365:U:H5"	1:B:368:A:C8	1.69	1.26
1:B:1675:C:H1'	1:B:1677:A:C2	1.70	1.26
1:B:33:C:H1'	1:B:677:A:N3	1.46	1.26
1:B:76:C:OP2	1:B:119:A:C4'	1.83	1.26
1:B:110:G:O3'	1:B:170:U:H5"	1.28	1.26
1:B:167:A:O2'	1:B:168:G:H3'	1.14	1.26
1:B:221:A:H1'	1:B:222:A:N9	1.46	1.26
1:B:2013:A:H5'	1:B:2014:A:N7	1.47	1.26
1:B:861:A:C5'	1:B:862:G:C8	2.17	1.26
1:B:1883:U:C5'	1:B:1884:G:H5'	1.66	1.26
1:B:93:G:C2'	1:B:498:G:C5'	2.14	1.26
1:B:512:G:H2'	1:B:513:A:C5'	1.63	1.26
1:B:535:G:H5"	1:B:950:G:C4'	1.65	1.26
1:B:1032:A:N7	1:B:1127:A:H1'	1.50	1.26
1:B:1856:U:C3'	1:B:1856:U:O3'	1.82	1.26
1:B:2734:A:C3'	1:B:2735:G:H5'	1.64	1.26
1:B:585:G:O3'	1:B:585:G:H3'	1.09	1.26
1:B:762:U:H1'	1:B:763:G:O4'	1.33	1.26
1:B:764:A:O3'	1:B:764:A:C3'	1.82	1.26
1:B:941:A:O3'	1:B:941:A:H3'	1.09	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1465:G:H4'	1:B:1466:U:O5'	1.13	1.26
1:B:1668:A:O5'	1:B:1669:A:H8	1.09	1.26
1:B:1790:C:C5'	1:B:2443:C:H5'	1.65	1.26
1:B:1853:A:O3'	1:B:1853:A:C3'	1.83	1.26
1:B:1943:U:C5	1:B:2071:A:C5'	2.18	1.26
1:B:2158:A:C2'	1:B:2159:G:C5'	2.13	1.26
1:B:73:A:O3'	1:B:113:U:H2'	1.26	1.25
1:B:93:G:H2'	1:B:498:G:C4'	1.66	1.25
1:B:8:C:OP1	1:B:9:G:H3'	1.12	1.25
1:B:98:G:C2'	1:B:102:U:H6	1.48	1.25
1:B:240:C:O5'	1:B:275:C:H3'	1.20	1.25
1:B:857:G:OP1	1:B:858:G:H1'	1.32	1.25
1:B:1654:A:H2'	1:B:1655:A:C2	1.69	1.25
1:B:28:A:H1'	1:B:1250:G:OP1	1.37	1.25
1:B:1017:G:H5'	1:B:2754:U:C5	1.69	1.25
1:B:1425:G:C3'	1:B:1425:G:O3'	1.82	1.25
1:B:1721:G:H2'	1:B:1739:A:C8	1.71	1.25
1:B:1853:A:H5"	1:B:1857:G:O3'	1.35	1.25
1:B:188:G:H5'	1:B:218:A:OP1	1.23	1.25
1:B:270:A:H2'	1:B:271:G:C5'	1.65	1.25
1:B:914:G:H2'	1:B:916:G:O2'	1.37	1.25
1:B:1428:C:C3'	1:B:1429:G:H5"	1.67	1.25
1:B:1521:G:C6	1:B:1522:A:H1'	1.70	1.25
1:B:1933:G:H3'	1:B:1941:C:C5	1.71	1.25
1:B:2556:C:C3'	1:B:2557:G:C5'	2.15	1.25
1:B:2725:A:H5'	1:B:2728:U:C4'	1.66	1.25
1:B:144:A:H5'	1:B:1328:A:OP2	1.36	1.25
1:B:320:A:O3'	1:B:320:A:C3'	1.83	1.25
1:B:483:A:H2'	1:B:484:C:C4'	1.65	1.25
1:B:99:U:H3'	1:B:102:U:C1'	1.66	1.24
1:B:1944:U:C3'	1:B:1945:G:H5'	1.65	1.24
1:B:2683:C:C5'	1:B:2721:A:H2	1.48	1.24
1:B:262:A:C3'	1:B:430:A:H5'	1.65	1.24
1:B:453:A:C8	1:B:478:A:H8	1.55	1.24
1:B:1904:G:O2'	1:B:1927:A:H1'	1.35	1.24
1:B:1942:C:H5"	1:B:2441:U:O2'	1.34	1.24
1:B:2575:C:C4'	1:B:2576:G:H5"	1.66	1.24
1:B:2846:G:C5'	1:B:2846:G:O5'	1.85	1.24
1:B:64:A:C8	1:B:66:C:N4	1.99	1.24
1:B:77:G:C1'	1:B:147:C:OP1	1.85	1.24
1:B:867:C:H2'	1:B:915:C:OP1	1.35	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1453:A:C1'	1:B:1525:A:H8	1.49	1.24
1:B:1854:A:C5'	1:B:1854:A:O5'	1.86	1.24
1:B:2859:G:C2'	1:B:2860:A:H5'	1.67	1.24
1:B:93:G:C3'	1:B:498:G:H3'	1.66	1.24
1:B:432:A:C3'	1:B:433:C:C5'	2.10	1.24
1:B:483:A:C2'	1:B:484:C:C5'	1.97	1.24
1:B:675:A:H5'	1:B:1250:G:N7	1.50	1.24
1:B:804:A:C5'	1:B:804:A:H4'	1.41	1.24
1:B:1026:G:H2'	1:B:1027:A:O4'	1.34	1.24
1:B:1136:G:C2'	1:B:1137:G:H5"	1.68	1.24
1:B:1566:A:O3'	1:B:1567:G:P	1.96	1.24
1:B:2377:A:H2'	1:B:2394:C:C5	1.70	1.24
1:B:77:G:H1'	1:B:147:C:OP1	1.06	1.24
1:B:83:A:N3	1:B:84:A:H5'	1.52	1.24
1:B:369:U:O5'	1:B:369:U:P	1.96	1.24
1:B:898:C:C2'	1:B:899:A:H5'	1.68	1.24
1:B:1131:G:P	1:B:1131:G:O5'	1.96	1.24
1:B:1826:G:H5"	1:B:1967:C:OP1	1.36	1.24
1:B:2582:G:C5'	1:B:2583:G:H8	1.49	1.24
1:B:76:C:C5	1:B:119:A:C3'	2.20	1.23
1:B:330:A:H1'	1:B:334:C:O2	1.37	1.23
1:B:416:U:O2'	1:B:417:C:C5'	1.85	1.23
1:B:695:G:OP2	1:B:1961:C:H5"	1.09	1.23
1:B:1572:A:N6	1:B:1574:C:C5	2.03	1.23
1:B:646:U:C3'	1:B:647:G:H5'	1.68	1.23
1:B:901:C:C5'	1:B:902:C:H5	1.44	1.23
1:B:915:C:OP2	1:B:916:G:H1'	1.33	1.23
1:B:1564:C:H4'	1:B:1565:C:C5'	1.68	1.23
1:B:1663:G:O3'	1:B:1664:A:P	1.96	1.23
1:B:1943:U:O5'	1:B:1943:U:P	1.96	1.23
1:B:2571:U:H5"	1:B:2647:U:O4'	1.38	1.23
1:B:51:G:O3'	1:B:52:A:P	1.97	1.23
1:B:215:G:O2'	1:B:256:A:H3'	1.38	1.23
1:B:262:A:O3'	1:B:430:A:C5'	1.85	1.23
1:B:1289:C:C1'	1:B:1648:U:H5"	1.69	1.23
1:B:1417:C:H2'	1:B:1635:A:C2	1.72	1.23
1:B:1568:G:H3'	1:B:1570:A:C5	1.72	1.23
1:B:1852:U:O3'	1:B:1885:A:H1'	1.37	1.23
1:B:2058:A:N6	1:B:2069:7MG:HM72	1.47	1.23
1:B:2690:U:H3'	1:B:2691:C:C5'	1.64	1.23
1:B:2726:A:C4'	1:B:2727:A:H5'	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2879:A:C5'	1:B:2880:C:H5	1.51	1.23
1:B:11:C:H5'	1:B:586:A:C4'	1.67	1.23
1:B:14:A:O3'	1:B:15:G:P	1.96	1.23
1:B:239:C:H5"	1:B:274:C:O3'	1.10	1.23
1:B:300:A:O3'	1:B:301:G:P	1.97	1.23
1:B:457:A:N3	1:B:458:G:H3'	1.53	1.23
1:B:1770:G:O3'	1:B:1771:C:P	1.97	1.23
1:B:1853:A:O5'	1:B:1853:A:P	1.96	1.23
1:B:1854:A:C5'	1:B:1888:G:H1'	1.64	1.23
1:B:1943:U:O3'	1:B:1944:U:P	1.97	1.23
1:B:2902:C:O3'	1:B:2903:U:P	1.97	1.23
1:B:98:G:O5'	1:B:98:G:P	1.97	1.23
1:B:214:G:O2'	1:B:256:A:H2'	1.38	1.23
1:B:525:U:C3'	1:B:811:U:H6	1.51	1.23
1:B:802:A:O3'	1:B:803:U:P	1.97	1.23
1:B:1050:A:O3'	1:B:1051:G:P	1.96	1.23
1:B:1580:A:H1'	1:B:1632:A:C5'	1.67	1.23
1:B:2376:A:C2	1:B:2393:U:H2'	1.74	1.23
1:B:2846:G:O5'	1:B:2848:G:N3	1.72	1.23
1:B:25:U:O3'	1:B:26:G:P	1.96	1.22
1:B:28:A:O5'	1:B:28:A:P	1.97	1.22
1:B:416:U:O2'	1:B:417:C:H5'	1.10	1.22
1:B:915:C:O3'	1:B:916:G:P	1.97	1.22
1:B:1626:A:H4'	1:B:1627:G:C5'	1.67	1.22
1:B:1905:C:H5'	1:B:1927:A:O2'	1.35	1.22
1:B:1928:A:P	1:B:1928:A:O5'	1.97	1.22
1:B:2374:C:H3'	1:B:2375:G:P	1.77	1.22
1:B:2846:G:OP2	1:B:2848:G:H3'	1.34	1.22
1:B:27:G:O3'	1:B:28:A:P	1.97	1.22
1:B:51:G:O5'	1:B:51:G:P	1.97	1.22
1:B:71:A:O2'	1:B:113:U:H3'	1.38	1.22
1:B:77:G:O5'	1:B:99:U:H1'	1.40	1.22
1:B:1906:G:H5'	1:B:1928:A:OP1	1.40	1.22
1:B:1931:U:O3'	1:B:1935:G:H4'	1.34	1.22
1:B:2202:U:O3'	1:B:2204:G:H5'	1.31	1.22
1:B:2725:A:C5'	1:B:2728:U:H4'	1.68	1.22
1:B:94:A:O3'	1:B:95:A:P	1.97	1.22
1:B:316:C:H3'	1:B:317:G:OP2	1.37	1.22
1:B:501:A:O3'	1:B:501:A:H3'	1.06	1.22
1:B:530:G:OP2	1:B:948:C:H5"	1.37	1.22
1:B:1048:A:O5'	1:B:1048:A:P	1.97	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2062:A:O3'	1:B:2063:C:P	1.97	1.22
1:B:2453:A:O5'	1:B:2453:A:P	1.97	1.22
1:B:2763:G:H4'	1:B:2765:A:N6	1.53	1.22
1:B:69:C:C5'	1:B:85:G:H5'	1.68	1.22
1:B:87:U:H2'	1:B:498:G:OP2	1.40	1.22
1:B:257:C:H2'	1:B:258:G:C5'	1.68	1.22
1:B:262:A:C5'	1:B:429:A:C5'	2.18	1.22
1:B:389:G:H5"	1:B:405:U:N3	1.53	1.22
1:B:827:U:H2'	1:B:828:U:C5	1.75	1.22
1:B:834:G:O4'	1:B:977:G:H4'	1.40	1.22
1:B:860:U:O3'	1:B:861:A:P	1.97	1.22
1:B:1047:G:O3'	1:B:1048:A:P	1.98	1.22
1:B:1196:C:O5'	1:B:1196:C:P	1.96	1.22
1:B:1451:C:H4'	1:B:1526:C:O4'	1.36	1.22
1:B:1854:A:OP1	1:B:1888:G:H3'	1.33	1.22
1:B:1944:U:H5'	1:B:2072:C:OP2	1.33	1.22
1:B:1971:U:O3'	1:B:1972:G:P	1.97	1.22
1:B:2067:G:O3'	1:B:2068:U:P	1.97	1.22
1:B:2452:C:O3'	1:B:2453:A:P	1.98	1.22
1:B:73:A:O5'	1:B:73:A:P	1.98	1.22
1:B:75:G:C5'	1:B:75:G:O5'	1.86	1.22
1:B:75:G:C4'	1:B:113:U:H5"	1.68	1.22
1:B:428:A:O3'	1:B:429:A:P	1.97	1.22
1:B:574:A:C5'	1:B:2044:C:C5'	2.09	1.22
1:B:685:A:O5'	1:B:685:A:P	1.97	1.22
1:B:1211:C:C5'	1:B:1235:G:H1'	1.68	1.22
1:B:1335:C:OP1	1:B:1415:U:H4'	1.39	1.22
1:B:1546:G:O2'	1:B:1547:C:H5'	1.38	1.22
1:B:1674:G:H8	1:B:1675:C:C5'	1.48	1.22
1:B:1753:G:H5"	1:B:1988:G:O3'	1.34	1.22
1:B:2060:A:O3'	1:B:2061:G:P	1.97	1.22
1:B:71:A:P	1:B:71:A:O5'	1.97	1.21
1:B:195:A:H2'	1:B:196:A:C8	1.74	1.21
1:B:762:U:H1'	1:B:763:G:C5'	1.68	1.21
1:B:1025:G:H5'	1:B:2469:A:N1	1.53	1.21
1:B:1285:A:C4	1:B:2011:U:O2'	1.93	1.21
1:B:1451:C:H6	1:B:1455:G:N7	1.35	1.21
1:B:2009:A:O3'	1:B:2010:G:P	1.97	1.21
1:B:2132:U:C5	1:B:2133:G:H1'	1.75	1.21
1:B:11:C:H5'	1:B:586:A:C5'	1.70	1.21
1:B:72:U:O3'	1:B:73:A:P	1.97	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:A:H4'	1:B:278:A:OP1	1.07	1.21
1:B:669:G:O3'	1:B:670:A:P	1.96	1.21
1:B:1046:A:H5'	1:B:1051:G:N7	1.52	1.21
1:B:1620:G:O3'	1:B:1621:U:P	1.98	1.21
1:B:2068:U:O5'	1:B:2068:U:P	1.98	1.21
1:B:2214:C:O2'	1:B:2215:C:H5'	1.38	1.21
1:B:45:G:O3'	1:B:46:G:P	1.98	1.21
1:B:46:G:O5'	1:B:46:G:P	1.98	1.21
1:B:76:C:OP2	1:B:119:A:H4'	1.08	1.21
1:B:98:G:O3'	1:B:99:U:P	1.99	1.21
1:B:280:U:O3'	1:B:281:C:P	1.97	1.21
1:B:320:A:O5'	1:B:320:A:P	1.98	1.21
1:B:538:A:C5'	1:B:969:G:H5'	1.69	1.21
1:B:568:U:H1'	1:B:833:A:C5'	1.68	1.21
1:B:1017:G:O2'	1:B:1128:G:H2'	1.40	1.21
1:B:1117:C:C5'	1:B:2751:G:C5'	2.13	1.21
1:B:1149:G:O3'	1:B:1150:C:P	1.98	1.21
1:B:2067:G:O2'	1:B:2068:U:C2	1.93	1.21
1:B:2345:G:P	1:B:2345:G:O5'	1.98	1.21
1:B:2645:G:C5'	1:B:2646:C:C5	2.22	1.21
1:B:212:G:H4'	1:B:213:A:O5'	1.41	1.21
1:B:221:A:N9	1:B:222:A:H2'	1.54	1.21
1:B:585:G:O3'	1:B:586:A:P	1.97	1.21
1:B:1023:U:OP1	1:B:1023:U:H1'	1.36	1.21
1:B:1155:A:O2'	1:B:1156:A:H8	1.21	1.21
1:B:1197:G:C3'	1:B:1197:G:O3'	1.89	1.21
1:B:1828:G:H3'	1:B:1970:A:OP2	1.36	1.21
1:B:1970:A:O3'	1:B:1971:U:P	1.99	1.21
1:B:119:A:O5'	1:B:119:A:P	1.97	1.21
1:B:538:A:H5"	1:B:969:G:C5'	1.69	1.21
1:B:1417:C:C1'	1:B:1466:U:H3'	1.71	1.21
1:B:1852:U:O4	1:B:1883:U:H1'	1.40	1.21
1:B:2022:U:H3'	1:B:2023:C:C5'	1.70	1.21
1:B:2571:U:OP1	1:B:2647:U:C5'	1.89	1.21
1:B:53:A:O5'	1:B:53:A:P	1.99	1.20
1:B:668:A:H5"	1:B:669:G:O5'	1.07	1.20
1:B:684:G:O3'	1:B:685:A:P	1.98	1.20
1:B:1326:U:O3'	1:B:1327:A:P	1.98	1.20
1:B:1543:G:H2'	1:B:1544:A:C5'	1.71	1.20
1:B:1933:G:C5'	1:B:1941:C:C6	2.23	1.20
1:B:1944:U:O5'	1:B:1944:U:P	1.97	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1971:U:O5'	1:B:1971:U:P	1.99	1.20
1:B:2055:C:O3'	1:B:2056:G:P	1.99	1.20
1:B:99:U:N3	1:B:102:U:H5'	1.56	1.20
1:B:118:A:O3'	1:B:119:A:P	1.98	1.20
1:B:217:A:H3'	1:B:218:A:C5'	1.71	1.20
1:B:536:G:H2'	1:B:537:G:C5'	1.70	1.20
1:B:745:7MG:C1'	1:B:745:7MG:N9	2.04	1.20
1:B:941:A:P	1:B:941:A:O5'	2.00	1.20
1:B:1130:U:C6	1:B:2749:A:H1'	1.76	1.20
1:B:1673:G:C8	1:B:1680:U:H5	1.60	1.20
1:B:1891:G:C5'	1:B:1892:C:H5	1.53	1.20
1:B:2113:U:P	1:B:2113:U:O5'	1.99	1.20
1:B:2374:C:O3'	1:B:2413:G:C4'	1.88	1.20
1:B:111:A:O5'	1:B:111:A:P	1.99	1.20
1:B:228:C:C3'	1:B:229:C:H6	1.53	1.20
1:B:429:A:O5'	1:B:429:A:P	2.00	1.20
1:B:511:U:O3'	1:B:511:U:H3'	1.04	1.20
1:B:585:G:H5"	1:B:1196:C:C5'	1.70	1.20
1:B:859:G:O2'	1:B:860:U:P	1.99	1.20
1:B:940:G:C5'	1:B:947:A:OP1	1.88	1.20
1:B:1359:A:N6	1:B:1371:G:H5"	1.56	1.20
1:B:1663:G:H3'	1:B:1665:A:OP1	1.37	1.20
1:B:1672:A:H1'	1:B:1674:G:P	1.80	1.20
1:B:1854:A:C5'	1:B:1888:G:N3	2.05	1.20
1:B:2393:U:H5"	1:B:2395:C:C4'	1.69	1.20
1:B:99:U:H3'	1:B:102:U:O4'	1.42	1.20
1:B:448:U:O3'	1:B:478:A:H4'	1.42	1.20
1:B:620:G:H5'	1:B:621:A:C8	1.76	1.20
1:B:1048:A:H5"	1:B:1103:A:OP1	1.41	1.20
1:B:1195:G:O3'	1:B:1196:C:P	2.00	1.20
1:B:1348:C:C5'	1:B:1348:C:H4'	1.53	1.20
1:B:1377:G:H8	1:B:1378:A:N1	1.39	1.20
1:B:1451:C:O3'	1:B:1451:C:H3'	1.14	1.20
1:B:1865:U:O3'	1:B:1866:A:P	1.99	1.20
1:B:2060:A:C5'	1:B:2446:G:C5'	2.12	1.20
1:B:2382:G:O5'	1:B:2382:G:P	1.99	1.20
1:B:2433:A:H4'	1:B:2434:A:C8	1.76	1.20
1:B:73:A:C3'	1:B:113:U:C1'	2.20	1.20
1:B:87:U:O2'	1:B:497:A:H4'	1.40	1.20
1:B:1655:A:C2'	1:B:1656:C:H5'	1.70	1.20
1:B:1933:G:O3'	1:B:1934:C:P	2.00	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1989:G:O5'	1:B:1989:G:P	1.98	1.20
1:B:2086:U:O2'	1:B:2087:G:H8	1.19	1.20
1:B:2750:A:O3'	1:B:2751:G:P	2.00	1.20
1:B:2751:G:O5'	1:B:2751:G:P	2.00	1.20
1:B:2752:C:O3'	1:B:2753:A:P	1.99	1.20
1:B:75:G:C3'	1:B:100:U:C6	2.25	1.19
1:B:135:U:H5"	1:B:168:G:O2'	1.42	1.19
1:B:330:A:N3	1:B:334:C:H2'	1.55	1.19
1:B:365:U:OP1	1:B:368:A:C8	1.95	1.19
1:B:669:G:C5'	1:B:669:G:H4'	1.50	1.19
1:B:762:U:C1'	1:B:763:G:C4'	2.21	1.19
1:B:1130:U:C4'	1:B:2752:C:H4'	1.72	1.19
1:B:1847:A:C2'	1:B:2231:U:H1'	1.72	1.19
1:B:1900:A:H2'	1:B:1901:A:N7	1.57	1.19
1:B:1906:G:C8	1:B:1927:A:C3'	2.23	1.19
1:B:2076:U:H4'	1:B:2077:A:N7	1.53	1.19
1:B:2322:A:H5"	1:B:2323:G:O3'	1.38	1.19
1:B:2718:G:H5"	1:B:2719:G:OP2	1.36	1.19
1:B:2740:A:H2'	1:B:2742:G:OP2	1.39	1.19
1:B:2848:G:O3'	1:B:2849:U:P	1.99	1.19
1:B:2848:G:C2'	1:B:2872:A:C5'	2.20	1.19
1:B:2867:G:C8	1:B:2868:A:C2	2.30	1.19
1:B:11:C:O3'	1:B:12:U:P	1.99	1.19
1:B:52:A:O3'	1:B:53:A:P	2.00	1.19
1:B:73:A:O3'	1:B:74:A:P	1.99	1.19
1:B:113:U:O5'	1:B:113:U:P	2.00	1.19
1:B:240:C:H5"	1:B:276:U:OP2	1.42	1.19
1:B:926:G:H5"	1:B:927:A:C5'	1.71	1.19
1:B:1265:A:C2	1:B:1616:A:H1'	1.75	1.19
1:B:1696:G:H5"	1:B:1697:G:C8	1.77	1.19
1:B:71:A:H5"	1:B:105:C:OP1	1.40	1.19
1:B:560:C:O2'	1:B:561:G:H5'	1.39	1.19
1:B:684:G:H5'	1:B:776:G:OP1	1.39	1.19
1:B:1130:U:O2'	1:B:2752:C:H5'	1.39	1.19
1:B:1839:G:H5"	1:B:1840:G:C8	1.77	1.19
1:B:1866:A:P	1:B:1866:A:O5'	1.99	1.19
1:B:2199:A:C2'	1:B:2200:C:C5'	2.20	1.19
1:B:2381:A:O3'	1:B:2382:G:P	2.00	1.19
1:B:2406:A:O3'	1:B:2407:A:P	2.00	1.19
1:B:275:C:O3'	1:B:276:U:P	2.00	1.19
1:B:793:A:O3'	1:B:794:A:P	2.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1480:C:C3’	1:B:1481:U:H5’	1.71	1.19
1:B:1674:G:H2’	1:B:1679:A:C3’	1.70	1.19
1:B:1883:U:C5’	1:B:1884:G:C5’	2.20	1.19
1:B:2393:U:C5’	1:B:2395:C:H4’	1.71	1.19
1:B:2468:A:H3’	1:B:2469:A:C6	1.76	1.19
1:B:538:A:C2’	1:B:539:G:C8	2.26	1.19
1:B:601:C:OP1	1:B:602:A:H5’	1.42	1.19
1:B:866:A:H2’	1:B:915:C:O2	1.40	1.19
1:B:2076:U:O3’	1:B:2077:A:P	2.01	1.19
1:B:15:G:O5’	1:B:15:G:P	2.01	1.18
1:B:28:A:C5’	1:B:1250:G:H5”	1.71	1.18
1:B:73:A:C3’	1:B:113:U:H1’	1.71	1.18
1:B:507:A:N1	1:B:1246:A:N7	1.91	1.18
1:B:1004:U:H2’	1:B:1010:A:OP1	1.43	1.18
1:B:1025:G:H5”	1:B:2468:A:C5’	1.72	1.18
1:B:1855:U:O3’	1:B:1856:U:P	1.99	1.18
1:B:2505:G:O3’	1:B:2506:U:P	2.01	1.18
1:B:2687:U:H2’	1:B:2688:G:C5’	1.72	1.18
1:B:2871:U:C5’	1:B:2871:U:H4’	1.51	1.18
1:B:77:G:O5’	1:B:99:U:C1’	1.92	1.18
1:B:686:U:H5”	1:B:687:C:C6	1.78	1.18
1:B:805:G:H5’	1:B:1254:A:C2’	1.74	1.18
1:B:861:A:H5’	1:B:862:G:OP1	1.43	1.18
1:B:990:A:H3’	1:B:991:C:OP2	1.38	1.18
1:B:1856:U:P	1:B:1886:U:H5’	1.82	1.18
1:B:941:A:P	1:B:947:A:H5”	1.83	1.18
1:B:1005:C:O4’	1:B:1011:G:H5’	1.02	1.18
1:B:1116:G:O3’	1:B:1116:G:H3’	1.01	1.18
1:B:1327:A:O5’	1:B:1327:A:P	2.00	1.18
1:B:1347:A:H5”	1:B:1348:C:O5’	1.41	1.18
1:B:1557:C:H2’	1:B:1558:C:C5	1.78	1.18
1:B:1753:G:C5’	1:B:1988:G:O3’	1.92	1.18
1:B:1854:A:O5’	1:B:1854:A:P	2.01	1.18
1:B:1941:C:OP2	1:B:2062:A:H2’	1.43	1.18
1:B:67:U:O3’	1:B:68:G:P	2.02	1.18
1:B:74:A:P	1:B:113:U:C2’	2.31	1.18
1:B:101:A:C8	1:B:102:U:C5	2.32	1.18
1:B:119:A:C3’	1:B:119:A:O3’	1.91	1.18
1:B:866:A:C2’	1:B:915:C:H1’	1.72	1.18
1:B:1131:G:C8	1:B:1132:U:H3’	1.78	1.18
1:B:1136:G:O2’	1:B:1137:G:H5”	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1450:G:O2'	1:B:1468:U:C5	1.96	1.18
1:B:1451:C:O5'	1:B:1526:C:H1'	1.42	1.18
1:B:1627:G:C1'	1:B:1641:A:C8	2.22	1.18
1:B:2571:U:OP1	1:B:2647:U:H4'	1.44	1.18
1:B:2849:U:C4'	1:B:2872:A:H2'	1.72	1.18
1:B:15:G:C5'	1:B:1256:G:C1'	2.20	1.18
1:B:71:A:C8	1:B:101:A:N6	2.10	1.18
1:B:221:A:H1'	1:B:222:A:C4	1.78	1.18
1:B:319:G:O3'	1:B:320:A:P	2.00	1.18
1:B:483:A:N3	1:B:484:C:H5'	1.57	1.18
1:B:746:PSU:C5'	1:B:747:5MU:H71	1.74	1.18
1:B:1202:G:H2'	1:B:1203:U:C6	1.79	1.18
1:B:1417:C:N1	1:B:1466:U:H3'	1.57	1.18
1:B:1427:A:C2'	1:B:1430:C:C4'	2.22	1.18
1:B:1933:G:N7	1:B:1936:A:C8	2.12	1.18
1:B:2070:A:O3'	1:B:2071:A:P	2.02	1.18
1:B:2251:7MG:N9	1:B:2251:7MG:C1'	2.06	1.18
1:B:2556:C:C3'	1:B:2556:C:O3'	1.90	1.18
1:B:2582:G:H5'	1:B:2583:G:C8	1.79	1.18
1:B:2776:A:H3'	1:B:2777:G:H5'	1.25	1.18
1:B:2868:A:C8	1:B:2871:U:C2'	2.23	1.18
1:B:70:G:O3'	1:B:71:A:P	2.00	1.17
1:B:213:A:H5'	1:B:244:A:H5"	1.22	1.17
1:B:320:A:H3'	1:B:324:A:C4	1.79	1.17
1:B:416:U:O3'	1:B:417:C:P	2.00	1.17
1:B:573:U:H2'	1:B:2045:C:OP2	1.42	1.17
1:B:1040:A:H3'	1:B:1050:A:O2'	1.43	1.17
1:B:1847:A:C2	1:B:1889:A:H5'	1.78	1.17
1:B:2112:G:O3'	1:B:2113:U:P	2.02	1.17
1:B:52:A:O5'	1:B:52:A:P	2.01	1.17
1:B:93:G:H3'	1:B:498:G:C3'	1.73	1.17
1:B:97:C:O3'	1:B:98:G:P	2.02	1.17
1:B:449:A:C3'	1:B:452:G:H1'	1.75	1.17
1:B:1438:U:O3'	1:B:1440:U:H5	1.27	1.17
1:B:1690:A:C5'	1:B:1691:C:H5"	1.73	1.17
1:B:1856:U:N3	1:B:1885:A:H5"	1.56	1.17
1:B:2050:C:O3'	1:B:2051:A:P	2.02	1.17
1:B:2365:G:C5'	1:B:2366:A:H1'	1.73	1.17
1:B:2488:G:C5'	1:B:2575:C:H41	1.56	1.17
1:B:2849:U:C5'	1:B:2850:A:H5'	1.73	1.17
1:B:764:A:O3'	1:B:765:C:P	2.02	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:802:A:C2'	1:B:1252:G:H22	1.56	1.17
1:B:1429:G:O3'	1:B:1430:C:P	2.02	1.17
1:B:1598:A:H2'	1:B:1599:U:OP1	1.41	1.17
1:B:1791:A:C2'	1:B:1934:C:C6	2.28	1.17
1:B:1905:C:C5'	1:B:1928:A:P	2.32	1.17
1:B:1933:G:H5'	1:B:2063:C:OP2	1.45	1.17
1:B:2158:A:C3'	1:B:2159:G:H5'	1.72	1.17
1:B:2787:C:H5"	1:B:2812:G:O2'	1.02	1.17
1:B:2849:U:O5'	1:B:2849:U:P	2.01	1.17
1:B:60:G:O3'	1:B:61:C:P	2.02	1.17
1:B:294:A:O5'	1:B:294:A:P	2.02	1.17
1:B:672:C:C5	1:B:1251:C:H5	1.62	1.17
1:B:759:G:H5'	1:B:1950:G:OP1	1.39	1.17
1:B:972:A:O5'	1:B:972:A:P	2.03	1.17
1:B:1329:U:H4'	1:B:1330:C:C6	1.79	1.17
1:B:1480:C:H2'	1:B:1481:U:C5'	1.62	1.17
1:B:1790:C:OP2	1:B:1970:A:H3'	1.44	1.17
1:B:1825:U:O2'	1:B:1966:A:H1'	1.45	1.17
1:B:1856:U:H3'	1:B:1886:U:N1	1.59	1.17
1:B:1856:U:C4	1:B:1885:A:H5"	1.80	1.17
1:B:1933:G:O5'	1:B:1941:C:H6	1.23	1.17
1:B:2111:U:C6	1:B:2112:G:O5'	1.98	1.17
1:B:2379:G:O2'	1:B:2393:U:H1'	1.43	1.17
1:B:2851:A:H8	1:B:2871:U:C5	1.63	1.17
1:B:94:A:OP1	1:B:95:A:H1'	1.42	1.17
1:B:601:C:C5'	1:B:602:A:O5'	1.92	1.17
1:B:857:G:O5'	1:B:857:G:P	2.03	1.17
1:B:1674:G:N7	1:B:1675:C:H5'	1.57	1.17
1:B:2052:A:H5"	1:B:2608:G:H5"	1.27	1.17
1:B:2320:U:C5'	1:B:2322:A:H5'	1.74	1.17
1:B:2344:U:O2'	1:B:2345:G:P	2.01	1.17
1:B:2682:A:H5"	1:B:2683:C:H41	1.08	1.17
1:B:10:A:C2'	1:B:11:C:H5"	1.74	1.16
1:B:28:A:O3'	1:B:29:U:P	2.04	1.16
1:B:179:C:C3'	1:B:197:A:H5'	1.74	1.16
1:B:839:U:O2'	1:B:962:G:H4'	1.42	1.16
1:B:1335:C:OP1	1:B:1415:U:C4'	1.92	1.16
1:B:1347:A:C5'	1:B:1348:C:C5'	2.23	1.16
1:B:1568:G:H3'	1:B:1570:A:C6	1.80	1.16
1:B:1854:A:C5'	1:B:1888:G:C4	2.28	1.16
1:B:2111:U:H1'	1:B:2112:G:H3'	1.26	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2903:U:H4'	1:B:2903:U:H5'	1.23	1.16
1:B:50:U:O2'	1:B:151:C:H5"	1.45	1.16
1:B:100:U:O4	1:B:118:A:H1'	1.39	1.16
1:B:500:G:N7	1:B:504:A:H3'	1.61	1.16
1:B:601:C:H5"	1:B:602:A:O5'	1.03	1.16
1:B:926:G:O3'	1:B:927:A:P	2.02	1.16
1:B:941:A:H4'	1:B:946:C:O2'	1.42	1.16
1:B:961:C:H5"	1:B:962:G:C8	1.80	1.16
1:B:1630:A:C3'	1:B:1631:G:H5"	1.73	1.16
1:B:1988:G:O3'	1:B:1989:G:P	2.03	1.16
1:B:2846:G:C5'	1:B:2848:G:C4	2.28	1.16
1:B:34:U:H2'	1:B:678:C:OP2	1.45	1.16
1:B:73:A:H4'	1:B:73:A:C5'	1.61	1.16
1:B:574:A:H1'	1:B:2039:U:C4'	1.76	1.16
1:B:1025:G:C5'	1:B:2469:A:N1	2.09	1.16
1:B:1047:G:C5'	1:B:1049:C:H2'	1.74	1.16
1:B:1289:C:H1'	1:B:1648:U:H5"	1.18	1.16
1:B:1347:A:O3'	1:B:1348:C:P	2.03	1.16
1:B:1425:G:O3'	1:B:1567:G:H8	1.29	1.16
1:B:1428:C:C4'	1:B:1429:G:H5"	1.74	1.16
1:B:1609:A:O5'	1:B:1609:A:P	2.03	1.16
1:B:1668:A:O5'	1:B:1669:A:C8	1.98	1.16
1:B:1672:A:H2'	1:B:1673:G:C3'	1.73	1.16
1:B:1675:C:O3'	1:B:1678:A:H5'	1.41	1.16
1:B:1763:G:H3'	1:B:1764:C:H5"	1.23	1.16
1:B:2629:U:C4'	1:B:2630:G:H5"	1.74	1.16
1:B:2751:G:H5"	1:B:2752:C:OP2	1.42	1.16
1:B:201:C:H2'	1:B:202:U:O3'	1.41	1.16
1:B:267:C:H1'	1:B:269:C:C6	1.79	1.16
1:B:318:C:C5'	1:B:319:G:H8	1.32	1.16
1:B:362:A:O4'	1:B:428:A:H5"	1.43	1.16
1:B:498:G:O3'	1:B:499:U:P	2.03	1.16
1:B:744:U:C2'	1:B:748:G:H5'	1.76	1.16
1:B:971:G:O3'	1:B:972:A:P	2.04	1.16
1:B:1006:C:H5"	1:B:1007:C:H5"	1.18	1.16
1:B:1608:A:O3'	1:B:1609:A:P	2.04	1.16
1:B:1609:A:H2'	1:B:1610:A:OP2	1.45	1.16
1:B:1814:G:O2'	1:B:1815:A:H3'	1.45	1.16
1:B:2375:G:O5'	1:B:2414:G:H5'	1.45	1.16
1:B:2643:G:H5"	1:B:2644:G:OP2	1.42	1.16
1:B:2846:G:H5"	1:B:2848:G:O4'	1.43	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:15:G:H1'	1:B:1256:G:H4'	1.19	1.16
1:B:137:U:O2	1:B:1325:U:H5'	1.43	1.16
1:B:215:G:H5"	1:B:257:C:H5'	1.21	1.16
1:B:837:C:H1'	1:B:976:G:N7	1.60	1.16
1:B:916:G:C4'	1:B:917:A:H5'	1.76	1.16
1:B:1480:C:C3'	1:B:1481:U:C5'	2.23	1.16
1:B:2112:G:C5'	1:B:2112:G:H4'	1.70	1.16
1:B:2375:G:C5'	1:B:2414:G:H5'	1.75	1.16
1:B:2846:G:C5'	1:B:2848:G:N9	2.08	1.16
1:B:213:A:H62	1:B:218:A:H3'	1.10	1.15
1:B:240:C:OP2	1:B:275:C:H2'	1.47	1.15
1:B:318:C:O3'	1:B:319:G:OP1	1.65	1.15
1:B:445:C:O3'	1:B:470:A:H1'	1.45	1.15
1:B:728:G:C3'	1:B:729:G:H5'	1.76	1.15
1:B:805:G:H5'	1:B:1254:A:H2'	1.22	1.15
1:B:856:G:OP1	1:B:857:G:H4'	1.44	1.15
1:B:940:G:O3'	1:B:941:A:P	2.03	1.15
1:B:1130:U:H4'	1:B:2752:C:C4'	1.76	1.15
1:B:1138:G:OP2	1:B:1139:G:C8	1.99	1.15
1:B:1294:U:O3'	1:B:1295:C:P	2.04	1.15
1:B:1348:C:O5'	1:B:1348:C:P	2.02	1.15
1:B:1450:G:H1'	1:B:1467:U:O4	1.42	1.15
1:B:1855:U:H1'	1:B:1884:G:N3	1.59	1.15
1:B:1856:U:O5'	1:B:1856:U:P	2.03	1.15
1:B:1938:A:H4'	1:B:1941:C:C5	1.79	1.15
1:B:1940:U:C4	1:B:2553:G:H4'	1.80	1.15
1:B:2158:A:H2'	1:B:2159:G:H5"	1.23	1.15
1:B:2202:U:C3'	1:B:2204:G:H5'	1.73	1.15
1:B:2374:C:O3'	1:B:2413:G:C5'	1.94	1.15
1:B:670:A:O3'	1:B:671:C:H5"	1.43	1.15
1:B:1252:G:H21	1:B:1253:A:C5'	1.59	1.15
1:B:1395:A:H5"	1:B:1396:U:C5'	1.76	1.15
1:B:1427:A:H2'	1:B:1430:C:C4'	1.76	1.15
1:B:1497:U:H5'	1:B:1498:C:OP2	1.44	1.15
1:B:1691:C:H2'	1:B:1692:U:C2	1.80	1.15
1:B:1931:U:O3'	1:B:1932:A:P	2.03	1.15
1:B:2404:U:OP2	1:B:2405:G:H1'	1.44	1.15
1:B:221:A:C5	1:B:279:A:H5'	1.81	1.15
1:B:223:A:H5'	1:B:224:U:O4'	1.43	1.15
1:B:294:A:P	1:B:295:G:C8	2.38	1.15
1:B:532:A:C3'	1:B:533:G:H5"	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:850:U:H2'	1:B:851:C:C6	1.81	1.15
1:B:1117:C:H4'	1:B:1129:A:H3'	1.27	1.15
1:B:1675:C:C5'	1:B:1679:A:H2'	1.75	1.15
1:B:1933:G:O2'	1:B:1935:G:H3'	1.45	1.15
1:B:2753:A:C5'	1:B:2754:U:H4'	1.75	1.15
1:B:203:A:H4'	1:B:204:A:OP2	1.46	1.15
1:B:423:A:O3'	1:B:424:G:H5"	1.44	1.15
1:B:452:G:C5'	1:B:453:A:H5"	1.77	1.15
1:B:672:C:H5"	1:B:1248:G:C8	1.81	1.15
1:B:1202:G:H2'	1:B:1203:U:H6	1.06	1.15
1:B:1425:G:O3'	1:B:1426:G:P	2.05	1.15
1:B:1519:G:N2	1:B:1521:G:C6	2.15	1.15
1:B:1671:U:O2	1:B:1672:A:H8	1.27	1.15
1:B:2517:C:O3'	1:B:2518:A:P	2.04	1.15
1:B:2654:A:N6	1:B:2666:C:H41	1.45	1.15
1:B:2787:C:C5'	1:B:2812:G:O2'	1.94	1.15
1:B:2885:G:OP2	1:B:2886:A:H5'	1.45	1.15
1:B:8:C:H2'	1:B:1193:G:OP2	1.47	1.15
1:B:99:U:H3	1:B:102:U:H5'	1.00	1.15
1:B:144:A:C4'	1:B:1327:A:H5"	1.77	1.15
1:B:363:G:C5'	1:B:429:A:H5"	1.75	1.15
1:B:857:G:C5'	1:B:858:G:C8	2.28	1.15
1:B:926:G:C3'	1:B:927:A:H4'	1.77	1.15
1:B:1451:C:C3'	1:B:1526:C:H6	1.60	1.15
1:B:1574:C:H5"	1:B:1631:G:OP1	1.46	1.15
1:B:1787:A:C1'	1:B:2557:G:OP2	1.93	1.15
1:B:1932:A:O5'	1:B:1932:A:P	2.04	1.15
1:B:1936:A:H8	1:B:1938:A:C2'	1.60	1.15
1:B:2754:U:OP2	1:B:2756:U:H5'	1.46	1.15
1:B:77:G:C5'	1:B:99:U:C6	2.30	1.14
1:B:142:A:H1'	1:B:1324:G:N2	1.61	1.14
1:B:320:A:O3'	1:B:321:U:P	2.04	1.14
1:B:507:A:H8	1:B:1245:G:OP2	1.29	1.14
1:B:608:A:C5'	1:B:608:A:H4'	1.63	1.14
1:B:669:G:O5'	1:B:669:G:P	2.03	1.14
1:B:1272:A:O4'	1:B:1649:G:H5"	1.47	1.14
1:B:1347:A:C5'	1:B:1348:C:O5'	1.94	1.14
1:B:1451:C:H4'	1:B:1526:C:C1'	1.77	1.14
1:B:1673:G:C8	1:B:1680:U:C5	2.34	1.14
1:B:1803:A:H5"	1:B:1804:C:N1	1.62	1.14
1:B:2308:G:H2'	1:B:2309:A:C5'	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2556:C:O3'	1:B:2557:G:P	2.06	1.14
1:B:668:A:O3'	1:B:669:G:P	2.05	1.14
1:B:764:A:C1'	1:B:765:C:C6	2.30	1.14
1:B:1855:U:C1'	1:B:1884:G:H2'	1.77	1.14
1:B:1857:G:O5'	1:B:1857:G:P	2.05	1.14
1:B:2639:A:N7	1:B:2731:G:H5"	1.61	1.14
1:B:2654:A:H62	1:B:2666:C:N4	1.43	1.14
1:B:2871:U:C5'	1:B:2872:A:C4	2.30	1.14
1:B:78:U:H5	1:B:99:U:H4'	1.09	1.14
1:B:87:U:C3'	1:B:88:G:P	2.34	1.14
1:B:120:U:P	1:B:120:U:HO5'	1.71	1.14
1:B:576:U:H3'	1:B:2019:A:C5'	1.77	1.14
1:B:856:G:OP1	1:B:857:G:C5'	1.96	1.14
1:B:1041:G:N2	1:B:1115:G:C8	2.14	1.14
1:B:1050:A:C3'	1:B:1051:G:OP1	1.96	1.14
1:B:1426:G:C5'	1:B:1572:A:H1'	1.76	1.14
1:B:1427:A:O2'	1:B:1430:C:H5"	1.48	1.14
1:B:1610:A:N6	1:B:1613:G:C8	2.14	1.14
1:B:1871:A:C2	1:B:2132:U:C5'	2.29	1.14
1:B:2374:C:O3'	1:B:2413:G:H5"	1.44	1.14
1:B:2741:A:C2'	1:B:2742:G:H5'	1.76	1.14
1:B:2848:G:C3'	1:B:2872:A:C5'	2.24	1.14
1:B:78:U:C5	1:B:99:U:H4'	1.82	1.14
1:B:91:A:C2	1:B:94:A:N6	2.16	1.14
1:B:764:A:H1'	1:B:765:C:C6	1.83	1.14
1:B:1445:G:H4'	1:B:1543:G:O6	1.48	1.14
1:B:1763:G:H3'	1:B:1764:C:C5'	1.78	1.14
1:B:507:A:C8	1:B:1245:G:OP2	2.01	1.14
1:B:1006:C:H5"	1:B:1007:C:C5'	1.78	1.14
1:B:1130:U:O3'	1:B:1131:G:P	2.05	1.14
1:B:1543:G:C2'	1:B:1544:A:H5"	1.77	1.14
1:B:1581:G:H1'	1:B:1633:G:OP2	1.46	1.14
1:B:1834:U:H5'	1:B:1835:G:H5'	1.26	1.14
1:B:1838:C:H5"	1:B:1839:G:OP1	1.47	1.14
1:B:1854:A:H5'	1:B:1888:G:H1'	1.20	1.14
1:B:2488:G:H5"	1:B:2575:C:H41	0.98	1.14
1:B:2810:A:H5'	1:B:2811:G:C8	1.82	1.14
1:B:2846:G:H4'	1:B:2848:G:N9	1.62	1.14
1:B:2869:G:H8	1:B:2873:A:H4'	1.11	1.14
1:B:10:A:N6	1:B:810:U:H2'	1.60	1.13
1:B:15:G:H5"	1:B:1197:G:C1'	1.78	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:A:C8	1:B:222:A:C2'	2.30	1.13
1:B:502:A:OP2	1:B:505:A:H2'	1.47	1.13
1:B:706:A:H1'	1:B:707:G:C8	1.82	1.13
1:B:871:U:H2'	1:B:872:U:C5	1.83	1.13
1:B:1032:A:O2'	1:B:1033:U:H5'	1.48	1.13
1:B:1379:U:H5'	1:B:1380:G:C8	1.83	1.13
1:B:1425:G:H2'	1:B:1567:G:O4'	1.47	1.13
1:B:1788:C:H4'	1:B:2554:U:O2'	1.45	1.13
1:B:1942:C:C5'	1:B:2441:U:O2'	1.94	1.13
1:B:2571:U:OP1	1:B:2647:U:H5"	1.45	1.13
1:B:2902:C:C3'	1:B:2903:U:P	2.36	1.13
1:B:73:A:C4'	1:B:113:U:C1'	2.02	1.13
1:B:462:C:N4	1:B:464:U:H5"	1.61	1.13
1:B:876:C:H42	1:B:900:A:H4'	1.12	1.13
1:B:916:G:H5'	1:B:917:A:C4'	1.78	1.13
1:B:926:G:C5'	1:B:927:A:H5"	1.78	1.13
1:B:1189:A:O3'	1:B:1190:G:C5'	1.95	1.13
1:B:1312:U:H3'	1:B:1313:U:C5'	1.77	1.13
1:B:1521:G:C5	1:B:1522:A:H1'	1.83	1.13
1:B:1853:A:O3'	1:B:1854:A:P	2.05	1.13
1:B:1884:G:H5"	1:B:1885:A:O5'	1.45	1.13
1:B:1927:A:O3'	1:B:1927:A:C3'	1.96	1.13
1:B:1934:C:O5'	1:B:1934:C:P	2.06	1.13
1:B:77:G:H3'	1:B:99:U:O4'	1.46	1.13
1:B:110:G:O3'	1:B:170:U:C5'	1.97	1.13
1:B:912:C:H1'	1:B:913:U:C3'	1.77	1.13
1:B:1264:A:H2'	1:B:1265:A:C5'	1.77	1.13
1:B:1420:A:OP2	1:B:1569:A:C2	2.00	1.13
1:B:1523:U:O4'	1:B:1528:A:H8	1.29	1.13
1:B:1672:A:H2'	1:B:1673:G:C4'	1.77	1.13
1:B:2076:U:C5'	1:B:2077:A:C8	2.31	1.13
1:B:570:G:H2'	1:B:2043:C:OP2	1.48	1.13
1:B:601:C:H5"	1:B:602:A:P	1.87	1.13
1:B:601:C:O3'	1:B:602:A:P	2.07	1.13
1:B:764:A:N6	1:B:1948:G:H1'	1.64	1.13
1:B:835:C:H5"	1:B:836:G:OP1	1.45	1.13
1:B:961:C:H3'	1:B:962:G:H5'	1.20	1.13
1:B:1019:U:H1'	1:B:1028:A:H5'	1.22	1.13
1:B:1675:C:H1'	1:B:1677:A:N3	1.63	1.13
1:B:1826:G:H5'	1:B:1966:A:O2'	1.49	1.13
1:B:2067:G:H5"	1:B:2439:A:P	1.89	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2377:A:H5'	1:B:2394:C:O5'	1.48	1.13
1:B:2846:G:H4'	1:B:2848:G:C8	1.82	1.13
1:B:2849:U:H6	1:B:2872:A:C2'	1.62	1.13
1:B:75:G:H4'	1:B:113:U:H5"	1.28	1.13
1:B:213:A:H8	1:B:214:G:H5'	1.08	1.13
1:B:602:A:O5'	1:B:602:A:P	2.07	1.13
1:B:668:A:C5'	1:B:669:G:O5'	1.97	1.12
1:B:675:A:H1'	1:B:1249:U:H2'	1.31	1.13
1:B:75:G:C3'	1:B:100:U:H6	1.62	1.12
1:B:783:A:H2'	1:B:784:G:O5'	1.45	1.12
1:B:859:G:H21	1:B:861:A:N6	1.44	1.12
1:B:1451:C:H3'	1:B:1526:C:O4'	1.48	1.12
1:B:1884:G:H5"	1:B:1885:A:P	1.89	1.13
1:B:2007:U:H5"	1:B:2846:G:O6	1.44	1.12
1:B:2344:U:C2'	1:B:2345:G:P	2.37	1.13
1:B:2690:U:H3'	1:B:2691:C:H5'	1.14	1.13
1:B:2451:A:N3	1:B:2562:U:H3'	1.60	1.12
1:B:2726:A:H5'	1:B:2727:A:H5"	1.31	1.12
1:B:2902:C:H3'	1:B:2903:U:P	1.87	1.12
1:B:93:G:H5'	1:B:503:A:H3'	1.14	1.12
1:B:262:A:C5'	1:B:429:A:H4'	1.66	1.12
1:B:984:A:H8	1:B:984:A:OP2	1.30	1.12
1:B:1598:A:O3'	1:B:1599:U:P	2.07	1.12
1:B:1620:G:OP2	1:B:1621:U:C5	2.02	1.12
1:B:1944:U:C5'	1:B:1944:U:O4'	1.94	1.12
1:B:2111:U:C6	1:B:2112:G:C4'	2.33	1.12
1:B:2374:C:C3'	1:B:2375:G:P	2.36	1.12
1:B:2451:A:H2	1:B:2563:U:P	1.72	1.12
1:B:2521:C:O3'	1:B:2522:U:P	2.06	1.12
1:B:60:G:O5'	1:B:60:G:P	2.06	1.12
1:B:320:A:C3'	1:B:324:A:N3	2.12	1.12
1:B:322:A:O3'	1:B:338:G:H3'	1.49	1.12
1:B:577:G:H21	1:B:2018:G:H2'	1.03	1.12
1:B:805:G:C5'	1:B:1254:A:H2'	1.79	1.12
1:B:837:C:H3'	1:B:838:C:H5"	1.12	1.12
1:B:840:C:H5'	1:B:962:G:O2'	1.47	1.12
1:B:856:G:O3'	1:B:857:G:P	2.06	1.12
1:B:876:C:H42	1:B:900:A:C4'	1.61	1.12
1:B:1050:A:H5"	1:B:1051:G:C5'	1.79	1.12
1:B:1499:C:C2'	1:B:1500:G:H5'	1.77	1.12
1:B:59:U:O3'	1:B:60:G:P	2.07	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:69:C:H4'	1:B:85:G:C5'	1.78	1.12
1:B:75:G:C5'	1:B:113:U:C5'	2.27	1.12
1:B:137:U:C1'	1:B:1325:U:H5"	1.79	1.12
1:B:220:G:H2'	1:B:277:G:H5'	1.31	1.12
1:B:565:C:C6	1:B:836:G:H8	1.66	1.12
1:B:762:U:H5"	1:B:1950:G:H5'	1.17	1.12
1:B:856:G:H5"	1:B:857:G:P	1.89	1.12
1:B:1854:A:O5'	1:B:1888:G:C2'	1.96	1.12
1:B:2133:G:H21	1:B:2156:G:N2	1.46	1.12
1:B:2493:U:H2'	1:B:2498:5MC:H1'	1.29	1.12
1:B:2667:C:O2'	1:B:2668:G:O5'	1.66	1.12
1:B:216:A:H5"	1:B:218:A:C1'	1.80	1.12
1:B:866:A:N3	1:B:915:C:H2'	1.64	1.12
1:B:1197:G:O3'	1:B:1198:U:P	2.07	1.12
1:B:2263:C:OP1	1:B:2424:C:H2'	1.50	1.12
1:B:2738:A:H1'	1:B:2741:A:N3	1.63	1.12
1:B:11:C:H2'	1:B:1195:G:H3'	1.24	1.11
1:B:98:G:C3'	1:B:102:U:C3'	2.28	1.11
1:B:239:C:O3'	1:B:240:C:P	2.08	1.11
1:B:672:C:C5	1:B:1251:C:C5	2.36	1.11
1:B:805:G:H21	1:B:1251:C:C3'	1.62	1.11
1:B:1905:C:C5'	1:B:1927:A:O3'	1.98	1.11
1:B:2052:A:C5'	1:B:2608:G:C5'	2.21	1.11
1:B:2556:C:C4'	1:B:2557:G:C5'	2.14	1.11
1:B:2846:G:O5'	1:B:2848:G:C4	2.03	1.11
1:B:69:C:C5'	1:B:85:G:C5'	2.28	1.11
1:B:83:A:C2	1:B:84:A:H5'	1.85	1.11
1:B:620:G:C5'	1:B:621:A:C8	2.32	1.11
1:B:803:U:H2'	1:B:1255:U:O5'	1.51	1.11
1:B:941:A:H5"	1:B:947:A:H5'	1.32	1.11
1:B:1418:G:H2'	1:B:1634:A:H61	1.14	1.11
1:B:1856:U:O3'	1:B:1857:G:P	2.06	1.11
1:B:2258:C:O3'	1:B:2259:U:OP2	1.65	1.11
1:B:2284:A:N7	1:B:2388:A:H4'	1.65	1.11
1:B:2556:C:H4'	1:B:2557:G:C4'	1.81	1.11
1:B:73:A:O5'	1:B:113:U:C6	2.04	1.11
1:B:362:A:O5'	1:B:428:A:H5'	1.48	1.11
1:B:428:A:O3'	1:B:428:A:H3'	1.44	1.11
1:B:866:A:H2'	1:B:915:C:C2	1.86	1.11
1:B:912:C:C1'	1:B:913:U:H3'	1.80	1.11
1:B:1347:A:H5'	1:B:1348:C:H5'	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1674:G:H2'	1:B:1679:A:O2'	1.49	1.11
1:B:1679:A:O3'	1:B:1679:A:H3'	0.94	1.11
1:B:1833:C:O2'	1:B:1931:U:H4'	1.48	1.11
1:B:2806:C:H2'	1:B:2807:U:H4'	1.24	1.11
1:B:2846:G:C5'	1:B:2848:G:O4'	1.97	1.11
1:B:2848:G:O3'	1:B:2872:A:H5'	1.49	1.11
1:B:2849:U:H4'	1:B:2850:A:H5'	1.31	1.11
1:B:126:A:H3'	1:B:128:C:N4	1.66	1.11
1:B:135:U:C4'	1:B:169:G:H5'	1.81	1.11
1:B:223:A:H8	1:B:279:A:C5'	1.64	1.11
1:B:449:A:H4'	1:B:452:G:O4'	1.50	1.11
1:B:449:A:H4'	1:B:452:G:H1'	1.17	1.11
1:B:947:A:N3	1:B:972:A:N6	1.98	1.11
1:B:1005:C:O4'	1:B:1011:G:C5'	1.98	1.11
1:B:1581:G:H5"	1:B:1629:U:OP2	1.48	1.11
1:B:1854:A:H5"	1:B:1888:G:N3	1.62	1.11
1:B:1989:G:C5'	1:B:1989:G:H4'	1.63	1.11
1:B:2563:U:H2'	1:B:2565:A:H5'	1.16	1.11
1:B:2726:A:C5'	1:B:2727:A:H5"	1.81	1.11
1:B:2776:A:H3'	1:B:2777:G:C5'	1.78	1.11
1:B:2786:U:O2'	1:B:2813:A:H4'	1.48	1.11
1:B:43:G:O3'	1:B:44:A:P	2.08	1.11
1:B:87:U:OP2	1:B:88:G:C8	2.04	1.11
1:B:167:A:O2'	1:B:168:G:C3'	1.97	1.11
1:B:601:C:P	1:B:602:A:H5'	1.90	1.11
1:B:762:U:C1'	1:B:763:G:H5'	1.79	1.11
1:B:926:G:O3'	1:B:927:A:C4'	1.99	1.11
1:B:1045:C:H5	1:B:1051:G:O4'	1.34	1.11
1:B:1307:A:H4'	1:B:1308:A:H5"	1.17	1.11
1:B:1395:A:C5'	1:B:1396:U:H5'	1.81	1.11
1:B:1416:G:H3'	1:B:1637:A:H5"	1.26	1.11
1:B:1584:U:C1'	1:B:1635:A:H5"	1.80	1.11
1:B:1791:A:H3'	1:B:1942:C:H3'	1.32	1.11
1:B:1995:U:H5"	1:B:1996:C:OP2	1.50	1.11
1:B:2394:C:H4'	1:B:2395:C:H5'	1.15	1.11
1:B:2488:G:H4'	1:B:2505:G:C2'	1.81	1.11
1:B:15:G:C5'	1:B:1256:G:O4'	1.99	1.10
1:B:99:U:C4'	1:B:102:U:O2	1.97	1.10
1:B:101:A:H2'	1:B:103:A:H3'	1.32	1.10
1:B:262:A:C5'	1:B:429:A:C3'	2.23	1.10
1:B:294:A:C5'	1:B:294:A:H4'	1.60	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:A:C5’	1:B:478:A:H1’	1.80	1.10
1:B:792:A:N6	1:B:795:C:H41	1.45	1.10
1:B:941:A:C5’	1:B:947:A:H5’	1.81	1.10
1:B:1379:U:C5’	1:B:1380:G:N7	2.12	1.10
1:B:1449:G:OP1	1:B:1587:G:H4’	1.47	1.10
1:B:1568:G:C2’	1:B:1570:A:H62	1.63	1.10
1:B:1884:G:H4’	1:B:1885:A:H3’	1.30	1.10
1:B:2202:U:H2’	1:B:2204:G:O4’	1.51	1.10
1:B:2212:A:H2’	1:B:2213:U:H5’	1.23	1.10
1:B:2449:5MU:H2’	1:B:2559:C:O2’	1.51	1.10
1:B:2563:U:H2’	1:B:2565:A:C5’	1.80	1.10
1:B:2849:U:C5	1:B:2872:A:H1’	1.86	1.10
1:B:99:U:C5’	1:B:102:U:C1’	2.28	1.10
1:B:232:G:OP2	1:B:234:U:H5’	1.49	1.10
1:B:668:A:H5’	1:B:669:G:H5”	1.19	1.10
1:B:913:U:O4	1:B:917:A:H2’	1.51	1.10
1:B:916:G:C5’	1:B:917:A:C4’	2.28	1.10
1:B:1025:G:N2	1:B:1026:G:C8	2.19	1.10
1:B:1159:U:O3’	1:B:1160:G:P	2.09	1.10
1:B:1524:G:P	1:B:1527:G:H5’	1.92	1.10
1:B:2167:U:OP2	1:B:2168:G:H5”	1.52	1.10
1:B:2344:U:C2’	1:B:2345:G:OP2	1.97	1.10
1:B:2571:U:OP1	1:B:2647:U:C4’	1.98	1.10
1:B:94:A:O4’	1:B:95:A:C8	2.05	1.10
1:B:318:C:C4’	1:B:319:G:C8	2.33	1.10
1:B:500:G:H4’	1:B:503:A:H5”	1.21	1.10
1:B:916:G:H4’	1:B:917:A:H5”	1.25	1.10
1:B:1302:A:C4’	1:B:1303:G:N7	2.13	1.10
1:B:1312:U:C3’	1:B:1313:U:H5”	1.81	1.10
1:B:1379:U:O2	1:B:1380:G:H5’	1.48	1.10
1:B:1451:C:OP1	1:B:1455:G:H4’	1.52	1.10
1:B:1522:A:C2’	1:B:1528:A:N3	2.14	1.10
1:B:1543:G:N3	1:B:1544:A:C8	2.18	1.10
1:B:1905:C:C3’	1:B:1928:A:O5’	1.98	1.10
1:B:2308:G:C2’	1:B:2309:A:H5”	1.80	1.10
1:B:2575:C:H4’	1:B:2576:G:H5”	1.26	1.10
1:B:2582:G:H5’	1:B:2583:G:H8	0.99	1.10
1:B:2682:A:H5”	1:B:2683:C:N4	1.66	1.10
1:B:262:A:O3’	1:B:430:A:H5’	0.92	1.10
1:B:363:G:H5’	1:B:429:A:C5’	1.81	1.10
1:B:850:U:O3’	1:B:851:C:O5’	1.67	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:916:G:C4'	1:B:917:A:C5'	2.29	1.10
1:B:1115:G:N2	1:B:2755:C:H5	1.49	1.10
1:B:1347:A:C5'	1:B:1348:C:H5'	1.78	1.10
1:B:1371:G:H1'	1:B:1373:A:C5'	1.80	1.10
1:B:1788:C:C1'	1:B:2555:U:H3'	1.80	1.10
1:B:1972:G:OP1	1:B:2442:C:H3'	1.52	1.10
1:B:2322:A:C3'	1:B:2323:G:H5"	1.81	1.10
1:B:15:G:H3'	1:B:16:C:H6	1.14	1.10
1:B:75:G:H2'	1:B:119:A:O5'	1.50	1.10
1:B:98:G:H1'	1:B:103:A:H3'	1.33	1.10
1:B:203:A:C5'	1:B:204:A:C8	2.34	1.10
1:B:240:C:P	1:B:275:C:H3'	1.91	1.10
1:B:507:A:H2'	1:B:518:G:H1'	1.13	1.10
1:B:608:A:OP2	1:B:609:A:H2'	1.51	1.10
1:B:764:A:H61	1:B:1948:G:H1'	1.15	1.10
1:B:1469:A:H3'	1:B:1528:A:H62	1.08	1.10
1:B:1667:G:O3'	1:B:1668:A:P	2.09	1.10
1:B:1854:A:C5'	1:B:1888:G:N9	2.15	1.10
1:B:2556:C:O3'	1:B:2557:G:H5"	1.52	1.10
1:B:73:A:H3'	1:B:73:A:O3'	1.43	1.09
1:B:93:G:H5'	1:B:503:A:C3'	1.81	1.09
1:B:140:C:H3'	1:B:141:G:N3	1.67	1.09
1:B:324:A:O5'	1:B:324:A:P	2.10	1.09
1:B:940:G:H5"	1:B:947:A:OP1	0.93	1.09
1:B:1163:G:H2'	1:B:1164:C:H5	1.13	1.09
1:B:1232:G:H5"	1:B:1237:A:OP1	1.52	1.09
1:B:1289:C:C1'	1:B:1648:U:C5'	2.29	1.09
1:B:1584:U:C1'	1:B:1635:A:C5'	2.30	1.09
1:B:1585:C:H5'	1:B:1586:A:C5'	1.82	1.09
1:B:1630:A:H3'	1:B:1631:G:C5'	1.82	1.09
1:B:1944:U:O3'	1:B:1945:G:C5'	2.00	1.09
1:B:2085:U:H2'	1:B:2086:U:C4'	1.82	1.09
1:B:2273:A:C2'	1:B:2274:A:H5'	1.82	1.09
1:B:2687:U:H2'	1:B:2688:G:H5'	1.12	1.09
1:B:2734:A:H3'	1:B:2735:G:C5'	1.79	1.09
1:B:2882:A:H2'	1:B:2883:A:C6	1.88	1.09
1:B:10:A:H62	1:B:810:U:H2'	1.05	1.09
1:B:120:U:C6	1:B:121:G:OP2	2.05	1.09
1:B:317:G:O2'	1:B:319:G:N7	1.84	1.09
1:B:896:A:O2'	1:B:897:C:H6	1.34	1.09
1:B:1480:C:O3'	1:B:1481:U:C5'	2.01	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1597:A:H3'	1:B:1598:A:C5'	1.78	1.09
1:B:1852:U:O3'	1:B:1852:U:H3'	1.25	1.09
1:B:1906:G:C5'	1:B:1928:A:OP1	1.99	1.09
1:B:1931:U:H1'	1:B:1935:G:H1'	1.19	1.09
1:B:2058:A:C2	1:B:2068:U:C2'	2.35	1.09
1:B:2059:A:H1'	1:B:2445:G:H5"	1.34	1.09
1:B:2849:U:H5'	1:B:2850:A:C5'	1.82	1.09
1:B:28:A:H5'	1:B:1250:G:H5"	1.13	1.09
1:B:34:U:H5"	1:B:793:A:N3	1.65	1.09
1:B:215:G:H8	1:B:216:A:H3'	1.06	1.09
1:B:316:C:C3'	1:B:317:G:OP2	2.00	1.09
1:B:317:G:O2'	1:B:319:G:C5	2.06	1.09
1:B:452:G:H8	1:B:479:A:P	1.75	1.09
1:B:570:G:N2	1:B:2043:C:H3'	1.66	1.09
1:B:802:A:O3'	1:B:1253:A:H4'	1.53	1.09
1:B:828:U:H2'	1:B:829:A:C8	1.86	1.09
1:B:840:C:H1'	1:B:963:U:H4'	1.18	1.09
1:B:861:A:N6	1:B:912:C:H41	1.49	1.09
1:B:1791:A:C1'	1:B:1934:C:C6	2.35	1.09
1:B:2068:U:C5'	1:B:2068:U:O4'	1.98	1.09
1:B:2844:G:H2'	1:B:2845:U:OP1	1.51	1.09
1:B:28:A:C5	1:B:1252:G:H1'	1.86	1.09
1:B:124:G:N3	1:B:125:A:H5"	1.67	1.09
1:B:144:A:OP1	1:B:1327:A:C6	2.06	1.09
1:B:1379:U:H3'	1:B:1380:G:H8	1.02	1.09
1:B:1668:A:H5"	1:B:1669:A:N7	1.68	1.09
1:B:1855:U:C2'	1:B:1884:G:H2'	1.82	1.09
1:B:1856:U:C3'	1:B:1886:U:C6	2.34	1.09
1:B:1932:A:C5'	1:B:1941:C:C2	2.35	1.09
1:B:1978:A:H3'	1:B:1979:U:H5'	1.19	1.09
1:B:1989:G:O3'	1:B:1989:G:H3'	1.50	1.09
1:B:2086:U:H1'	1:B:2087:G:C8	1.87	1.09
1:B:2556:C:C5'	1:B:2557:G:C5'	2.31	1.09
1:B:2849:U:H6	1:B:2872:A:C1'	1.58	1.09
1:B:2873:A:C3'	1:B:2874:C:H5'	1.81	1.09
1:B:471:A:N1	1:B:677:A:C8	2.20	1.09
1:B:670:A:O3'	1:B:671:C:C5'	2.00	1.09
1:B:1459:G:O2'	1:B:1460:U:H5'	1.53	1.09
1:B:1674:G:H2'	1:B:1679:A:C2'	1.83	1.09
1:B:1791:A:H8	1:B:1942:C:C4'	1.57	1.09
1:B:1947:C:H4'	1:B:1963:U:O2	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1972:G:OP1	1:B:2442:C:C3’	1.99	1.09
1:B:2076:U:C3’	1:B:2077:A:OP2	2.01	1.09
1:B:2306:C:H2’	1:B:2307:G:H5’	1.26	1.09
1:B:2488:G:H5”	1:B:2575:C:N4	1.67	1.09
1:B:97:C:O3’	1:B:103:A:H1’	1.53	1.08
1:B:221:A:H5”	1:B:277:G:H2’	1.22	1.08
1:B:388:G:H2’	1:B:389:G:H5’	1.15	1.08
1:B:601:C:H4’	1:B:604:G:C4’	1.82	1.08
1:B:695:G:OP2	1:B:1961:C:C5’	2.00	1.08
1:B:793:A:H4’	1:B:794:A:OP2	1.49	1.08
1:B:846:U:H2’	1:B:847:U:O5’	1.50	1.08
1:B:857:G:C1’	1:B:857:G:N9	2.17	1.08
1:B:859:G:N3	1:B:861:A:N6	1.99	1.08
1:B:1150:C:O3’	1:B:1151:A:P	2.11	1.08
1:B:1457:U:H2’	1:B:1458:U:C5’	1.83	1.08
1:B:1470:A:H5”	1:B:1472:C:H5’	1.09	1.08
1:B:1797:G:OP2	1:B:1815:A:H1’	1.53	1.08
1:B:1853:A:P	1:B:1885:A:H1’	1.93	1.08
1:B:1978:A:C3’	1:B:1979:U:H5’	1.82	1.08
1:B:2060:A:H1’	1:B:2558:C:H1’	1.34	1.08
1:B:2062:A:H5”	1:B:2063:C:N4	1.68	1.08
1:B:2081:U:C5	1:B:2082:A:H1’	1.88	1.08
1:B:2365:G:C4’	1:B:2366:A:H1’	1.81	1.08
1:B:2488:G:H4’	1:B:2505:G:O2’	1.49	1.08
1:B:2753:A:H5”	1:B:2754:U:H4’	1.24	1.08
1:B:100:U:H4’	1:B:120:U:OP1	1.53	1.08
1:B:450:G:H8	1:B:593:U:H1’	1.18	1.08
1:B:574:A:H1’	1:B:2039:U:C5’	1.83	1.08
1:B:618:G:H3’	1:B:619:G:C5’	1.80	1.08
1:B:1115:G:N2	1:B:2755:C:C5	2.21	1.08
1:B:1417:C:H2’	1:B:1635:A:H2	0.96	1.08
1:B:1450:G:O2’	1:B:1468:U:C4	2.04	1.08
1:B:1675:C:H5’	1:B:1679:A:H2’	1.32	1.08
1:B:1792:G:O2’	1:B:1943:U:N3	1.85	1.08
1:B:1940:U:H2’	1:B:2062:A:H3’	1.15	1.08
1:B:2007:U:H5”	1:B:2846:G:C6	1.88	1.08
1:B:2076:U:H3’	1:B:2077:A:OP2	1.53	1.08
1:B:2179:C:H41	1:B:2181:U:H5’	1.10	1.08
1:B:2451:A:H1’	1:B:2562:U:H5’	1.22	1.08
1:B:2849:U:H6	1:B:2872:A:O2’	1.36	1.08
1:B:324:A:C3’	1:B:324:A:O3’	2.00	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:P	1:B:2044:C:H5”	1.93	1.08
1:B:686:U:H5’	1:B:687:C:C5	1.87	1.08
1:B:744:U:C2’	1:B:748:G:C5’	2.29	1.08
1:B:806:C:C3’	1:B:808:G:N7	2.15	1.08
1:B:1017:G:OP2	1:B:2753:A:C8	2.06	1.08
1:B:1371:G:H1’	1:B:1373:A:H5”	1.10	1.08
1:B:1565:C:H5”	1:B:1566:A:OP1	1.53	1.08
1:B:1570:A:C2’	1:B:1572:A:H5’	1.83	1.08
1:B:1587:G:O6	1:B:1636:U:OP1	1.70	1.08
1:B:1655:A:H2’	1:B:1656:C:H5’	1.19	1.08
1:B:1667:G:C3’	1:B:1668:A:P	2.42	1.08
1:B:1884:G:H1’	1:B:1885:A:N3	1.68	1.08
1:B:1943:U:C6	1:B:2071:A:O3’	2.07	1.08
1:B:1950:G:N3	1:B:1951:U:H1’	1.67	1.08
1:B:2062:A:H5”	1:B:2063:C:H41	1.10	1.08
1:B:2541:A:H5”	1:B:2542:A:OP1	1.53	1.08
1:B:2848:G:O3’	1:B:2872:A:C5’	2.01	1.08
1:B:99:U:C5’	1:B:102:U:O2	2.00	1.08
1:B:101:A:H2’	1:B:103:A:C3’	1.84	1.08
1:B:110:G:O3’	1:B:111:A:P	2.10	1.08
1:B:144:A:C5’	1:B:1328:A:OP2	2.01	1.08
1:B:457:A:N3	1:B:458:G:C3’	2.17	1.08
1:B:1024:G:H2’	1:B:2470:G:C8	1.87	1.08
1:B:1047:G:H5”	1:B:1049:C:H2’	1.12	1.08
1:B:1425:G:C3’	1:B:1567:G:C8	2.36	1.08
1:B:1428:C:H4’	1:B:1429:G:C5’	1.83	1.08
1:B:1579:A:H2	1:B:1580:A:H5”	1.07	1.08
1:B:1813:G:O6	1:B:1814:G:H8	1.37	1.08
1:B:1853:A:H5”	1:B:1858:A:P	1.93	1.08
1:B:1905:C:C3’	1:B:1928:A:C5’	2.30	1.08
1:B:2060:A:H4’	1:B:2446:G:H5”	1.27	1.08
1:B:2667:C:O2’	1:B:2668:G:H8	1.37	1.08
1:B:2726:A:C4’	1:B:2727:A:H5”	1.83	1.08
1:B:2848:G:C4’	1:B:2870:C:H5’	1.83	1.08
1:B:2869:G:C8	1:B:2873:A:H4’	1.88	1.08
1:B:2902:C:H5	1:B:2903:U:O2’	1.36	1.08
1:B:92:U:H1’	1:B:498:G:N3	1.66	1.08
1:B:319:G:O4’	1:B:320:A:H5’	1.52	1.08
1:B:320:A:H3’	1:B:324:A:N3	1.69	1.08
1:B:449:A:C4’	1:B:452:G:C1’	2.32	1.08
1:B:536:G:H2’	1:B:537:G:H5”	1.11	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:598:U:H5”	1:B:937:C:H5’	1.31	1.08
1:B:601:C:H4’	1:B:604:G:H4’	1.11	1.08
1:B:783:A:C2’	1:B:784:G:C5’	2.31	1.08
1:B:802:A:H2’	1:B:1252:G:H22	1.10	1.08
1:B:805:G:C1’	1:B:1252:G:H5”	1.82	1.08
1:B:871:U:H2’	1:B:872:U:H5	0.97	1.08
1:B:1264:A:H2’	1:B:1265:A:H5’	1.32	1.08
1:B:1420:A:OP2	1:B:1569:A:H2	1.34	1.08
1:B:1451:C:C6	1:B:1455:G:N7	2.21	1.08
1:B:1721:G:H2’	1:B:1739:A:N7	1.67	1.08
1:B:1751:U:C5’	1:B:1752:C:C5’	2.32	1.08
1:B:1834:U:H4’	1:B:1835:G:OP2	1.27	1.08
1:B:1853:A:H8	1:B:1855:U:C5	1.71	1.08
1:B:1885:A:H4’	1:B:1886:U:C5	1.89	1.08
1:B:2060:A:C5	1:B:2448:A:H1’	1.88	1.08
1:B:2092:U:O3’	1:B:2093:G:P	2.10	1.08
1:B:2132:U:H5	1:B:2133:G:H1’	1.04	1.08
1:B:2521:C:O3’	1:B:2522:U:OP1	1.72	1.08
1:B:674:G:N1	1:B:1247:A:H4’	1.69	1.07
1:B:859:G:N2	1:B:861:A:N6	2.01	1.07
1:B:1451:C:C5’	1:B:1526:C:H1’	1.81	1.07
1:B:1789:A:O3’	1:B:1971:U:H5’	1.52	1.07
1:B:1791:A:C1’	1:B:1934:C:H6	1.67	1.07
1:B:1853:A:H4’	1:B:1853:A:H5”	1.29	1.07
1:B:1854:A:O5’	1:B:1888:G:H2’	1.49	1.07
1:B:1935:G:H22	1:B:1940:U:H5’	0.96	1.07
1:B:1944:U:O3’	1:B:1945:G:H5’	1.51	1.07
1:B:2582:G:C5’	1:B:2583:G:C8	2.34	1.07
1:B:2629:U:H4’	1:B:2630:G:H5”	1.21	1.07
1:B:2848:G:H4’	1:B:2870:C:H5’	1.09	1.07
1:B:2849:U:O5’	1:B:2872:A:C3’	2.01	1.07
1:B:322:A:O3’	1:B:323:C:P	2.12	1.07
1:B:323:C:O3’	1:B:324:A:P	2.13	1.07
1:B:525:U:H5”	1:B:811:U:H1’	1.36	1.07
1:B:1359:A:H62	1:B:1371:G:H5”	0.95	1.07
1:B:1417:C:H1’	1:B:1466:U:C3’	1.84	1.07
1:B:1480:C:O3’	1:B:1481:U:H5”	1.51	1.07
1:B:1641:A:H2’	1:B:1642:G:H5’	1.23	1.07
1:B:1791:A:H2’	1:B:1934:C:C6	1.86	1.07
1:B:1857:G:P	1:B:1886:U:C2	2.47	1.07
1:B:2067:G:H2’	1:B:2068:U:N3	1.69	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2374:C:O3'	1:B:2375:G:P	2.11	1.07
1:B:2849:U:H5'	1:B:2850:A:H5'	1.16	1.07
1:B:91:A:H3'	1:B:498:G:O6	1.53	1.07
1:B:203:A:O5'	1:B:204:A:H8	1.36	1.07
1:B:525:U:H3'	1:B:811:U:C1'	1.85	1.07
1:B:585:G:H5"	1:B:1196:C:H5'	1.36	1.07
1:B:668:A:H5"	1:B:669:G:P	1.94	1.07
1:B:739:A:C3'	1:B:740:C:C5'	2.18	1.07
1:B:762:U:C5'	1:B:1950:G:H5'	1.84	1.07
1:B:1017:G:C5'	1:B:2754:U:H5	1.66	1.07
1:B:1302:A:H3'	1:B:1606:C:C2	1.90	1.07
1:B:1358:G:H5'	1:B:1359:A:O5'	1.53	1.07
1:B:1377:G:H3'	1:B:1378:A:C2	1.89	1.07
1:B:1695:G:C8	1:B:2704:C:H2'	1.88	1.07
1:B:1696:G:H4'	1:B:1697:G:O5'	1.53	1.07
1:B:1847:A:H2'	1:B:2231:U:H1'	1.13	1.07
1:B:1933:G:H2'	1:B:1939:5MU:OP1	1.53	1.07
1:B:2321:U:O3'	1:B:2322:A:P	2.12	1.07
1:B:2322:A:O5'	1:B:2322:A:P	2.12	1.07
1:B:2556:C:H4'	1:B:2557:G:H4'	1.36	1.07
1:B:2690:U:C5'	1:B:2691:C:C6	2.36	1.07
1:B:2845:U:C5'	1:B:2868:A:H1'	1.82	1.07
1:B:311:A:H5'	1:B:483:A:C5	1.89	1.07
1:B:1419:A:N3	1:B:1573:G:H5"	1.68	1.07
1:B:1480:C:O3'	1:B:1481:U:OP2	1.68	1.07
1:B:1610:A:O4'	1:B:1611:C:H5	1.34	1.07
1:B:2060:A:N3	1:B:2447:G:OP1	1.88	1.07
1:B:2741:A:H2'	1:B:2742:G:H5'	1.07	1.07
1:B:2871:U:H5"	1:B:2872:A:N3	1.68	1.07
1:B:28:A:H5'	1:B:1250:G:C5'	1.84	1.07
1:B:63:A:H2'	1:B:64:A:C6	1.90	1.07
1:B:98:G:H3'	1:B:102:U:C3'	1.83	1.07
1:B:98:G:H5'	1:B:103:A:O5'	1.54	1.07
1:B:215:G:H5"	1:B:257:C:C5'	1.83	1.07
1:B:316:C:O3'	1:B:317:G:P	2.12	1.07
1:B:446:G:H5'	1:B:471:A:H3'	1.17	1.07
1:B:472:A:H3'	1:B:473:G:H8	1.20	1.07
1:B:947:A:C2	1:B:972:A:N6	2.23	1.07
1:B:1417:C:C5	1:B:1636:U:H4'	1.90	1.07
1:B:1427:A:H2'	1:B:1430:C:H4'	1.22	1.07
1:B:1580:A:H1'	1:B:1632:A:H5'	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1672:A:H2'	1:B:1673:G:H4'	1.32	1.07
1:B:1996:C:O3'	1:B:1997:C:P	2.11	1.07
1:B:2867:G:C8	1:B:2868:A:H2	1.67	1.07
1:B:103:A:H2'	1:B:104:A:C8	1.89	1.06
1:B:452:G:O4'	1:B:478:A:H3'	1.55	1.06
1:B:527:C:C5	1:B:1189:A:H2'	1.90	1.06
1:B:573:U:H3'	1:B:2044:C:P	1.94	1.06
1:B:861:A:C8	1:B:911:A:N3	2.23	1.06
1:B:1023:U:C2'	1:B:2466:C:H41	1.67	1.06
1:B:1123:C:N4	1:B:1126:A:N7	2.02	1.06
1:B:1492:G:C3'	1:B:1493:C:H5"	1.85	1.06
1:B:1814:G:H3'	1:B:1815:A:C2	1.90	1.06
1:B:1936:A:H8	1:B:1938:A:H2'	0.90	1.06
1:B:2067:G:C5'	1:B:2439:A:O5'	2.01	1.06
1:B:2859:G:H2'	1:B:2860:A:H5'	1.15	1.06
1:B:538:A:C2'	1:B:539:G:H8	1.64	1.06
1:B:1211:C:H4'	1:B:1212:G:H5'	1.37	1.06
1:B:1284:A:C3'	1:B:2012:G:H8	1.68	1.06
1:B:1427:A:H3'	1:B:1574:C:OP1	1.53	1.06
1:B:1463:C:N4	1:B:1544:A:H1'	1.69	1.06
1:B:1672:A:N3	1:B:1673:G:H3'	1.70	1.06
1:B:1693:U:H5'	1:B:2702:G:H22	0.98	1.06
1:B:1788:C:H1'	1:B:2555:U:C3'	1.85	1.06
1:B:1853:A:H2'	1:B:1854:A:H4'	1.37	1.06
1:B:1943:U:C6	1:B:2071:A:H4'	1.90	1.06
1:B:2007:U:C5'	1:B:2846:G:O6	2.03	1.06
1:B:2022:U:C3'	1:B:2023:C:H5'	1.84	1.06
1:B:2202:U:O3'	1:B:2204:G:C5'	2.03	1.06
1:B:27:G:O3'	1:B:27:G:H3'	1.54	1.06
1:B:135:U:O4'	1:B:169:G:H5'	1.56	1.06
1:B:926:G:H5"	1:B:927:A:H5"	1.07	1.06
1:B:1130:U:N3	1:B:2754:U:H2'	1.70	1.06
1:B:1321:A:O5'	1:B:1323:C:H5"	1.53	1.06
1:B:1674:G:C8	1:B:1679:A:C2'	2.38	1.06
1:B:1833:C:C2'	1:B:1931:U:H4'	1.85	1.06
1:B:1853:A:C3'	1:B:1888:G:O4'	2.03	1.06
1:B:1854:A:O5'	1:B:1888:G:C4	2.06	1.06
1:B:1860:G:C6	1:B:1884:G:N7	2.23	1.06
1:B:2199:A:C3'	1:B:2200:C:H5'	1.83	1.06
1:B:75:G:O5'	1:B:75:G:P	2.13	1.06
1:B:598:U:C4'	1:B:937:C:C5'	2.16	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:834:G:H4’	1:B:977:G:C5’	1.84	1.06
1:B:1128:G:C4’	1:B:2751:G:H2’	1.84	1.06
1:B:1211:C:H5’	1:B:1235:G:H1’	1.30	1.06
1:B:1312:U:C3’	1:B:1313:U:C5’	2.31	1.06
1:B:1565:C:O2’	1:B:1566:A:C5’	2.03	1.06
1:B:1667:G:H3’	1:B:1668:A:P	1.95	1.06
1:B:1674:G:C1’	1:B:1680:U:P	2.42	1.06
1:B:1695:G:H3’	1:B:2703:C:H42	1.13	1.06
1:B:2571:U:P	1:B:2647:U:H4’	1.95	1.06
1:B:2683:C:C5’	1:B:2721:A:C2	2.28	1.06
1:B:2726:A:H4’	1:B:2727:A:C4’	1.85	1.06
1:B:450:G:C3’	1:B:451:U:H5’	1.85	1.06
1:B:684:G:C2’	1:B:788:A:H2	1.68	1.06
1:B:867:C:H3’	1:B:868:U:H6	1.20	1.06
1:B:1019:U:C1’	1:B:1028:A:H5’	1.86	1.06
1:B:1045:C:C5	1:B:1051:G:O4’	2.09	1.06
1:B:1416:G:C3’	1:B:1637:A:H5”	1.84	1.06
1:B:1428:C:H4’	1:B:1429:G:H5”	1.09	1.06
1:B:1451:C:C5’	1:B:1451:C:H4’	1.80	1.06
1:B:1828:G:H5’	1:B:1969:A:H5’	1.37	1.06
1:B:1884:G:H3’	1:B:1884:G:OP2	1.55	1.06
1:B:2113:U:C5’	1:B:2113:U:H4’	1.83	1.06
1:B:2167:U:OP2	1:B:2168:G:C5’	2.04	1.06
1:B:2322:A:C5’	1:B:2322:A:H4’	1.80	1.06
1:B:2469:A:O3’	1:B:2469:A:H3’	1.55	1.06
1:B:2873:A:H2’	1:B:2874:C:H5”	1.38	1.06
1:B:15:G:C5’	1:B:1256:G:H1’	1.83	1.05
1:B:75:G:H2’	1:B:119:A:C5’	1.86	1.05
1:B:449:A:H5’	1:B:452:G:N3	1.70	1.05
1:B:685:A:C5’	1:B:685:A:H4’	1.61	1.05
1:B:860:U:C5’	1:B:861:A:OP2	2.03	1.05
1:B:1445:G:H5”	1:B:1446:C:C4	1.90	1.05
1:B:1451:C:C5’	1:B:1526:C:C1’	2.34	1.05
1:B:1675:C:C5’	1:B:1679:A:C2’	2.34	1.05
1:B:1695:G:H8	1:B:2704:C:H2’	1.02	1.05
1:B:1847:A:C2	1:B:1889:A:C5’	2.38	1.05
1:B:1932:A:H3’	1:B:1941:C:H2’	1.38	1.05
1:B:1932:A:H8	1:B:1938:A:O5’	1.38	1.05
1:B:1963:U:O2	1:B:1964:G:H5”	1.56	1.05
1:B:2111:U:C1’	1:B:2112:G:C3’	2.34	1.05
1:B:2652:C:C3’	1:B:2653:U:P	2.44	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2849:U:C3'	1:B:2872:A:C8	2.39	1.05
1:B:52:A:N7	1:B:118:A:H5'	1.70	1.05
1:B:74:A:O3'	1:B:75:G:P	2.14	1.05
1:B:98:G:C8	1:B:102:U:H5	1.73	1.05
1:B:101:A:O2'	1:B:103:A:C5'	2.05	1.05
1:B:127:A:H5'	1:B:128:C:C6	1.91	1.05
1:B:207:A:H3'	1:B:208:C:OP2	1.56	1.05
1:B:221:A:C6	1:B:279:A:H5'	1.91	1.05
1:B:263:G:O6	1:B:361:G:H5"	1.57	1.05
1:B:566:U:H5	1:B:836:G:C5'	1.69	1.05
1:B:637:A:C5'	1:B:638:G:C8	2.39	1.05
1:B:792:A:H62	1:B:795:C:N4	1.53	1.05
1:B:846:U:O2	1:B:847:U:H5"	1.55	1.05
1:B:857:G:O2'	1:B:912:C:N3	1.86	1.05
1:B:971:G:N3	1:B:972:A:N1	2.04	1.05
1:B:1024:G:H5"	1:B:2468:A:P	1.97	1.05
1:B:1371:G:C1'	1:B:1373:A:H5"	1.86	1.05
1:B:1451:C:C3'	1:B:1526:C:C6	2.39	1.05
1:B:1585:C:H4'	1:B:1586:A:H5"	1.32	1.05
1:B:1971:U:C5'	1:B:2443:C:OP1	2.04	1.05
1:B:2059:A:H1'	1:B:2445:G:C5'	1.86	1.05
1:B:112:U:H3'	1:B:119:A:H1'	1.32	1.05
1:B:221:A:C4'	1:B:278:A:OP1	2.03	1.05
1:B:294:A:O2'	1:B:327:G:H1'	1.56	1.05
1:B:453:A:H8	1:B:478:A:C8	1.73	1.05
1:B:800:A:N7	1:B:1200:C:H1'	1.72	1.05
1:B:859:G:C4'	1:B:860:U:C5	2.39	1.05
1:B:941:A:O5'	1:B:947:A:C5'	2.03	1.05
1:B:1142:A:O5'	1:B:1143:A:H8	1.40	1.05
1:B:1379:U:H3'	1:B:1380:G:C8	1.91	1.05
1:B:1564:C:H4'	1:B:1565:C:H5'	1.36	1.05
1:B:1568:G:H3'	1:B:1570:A:N6	1.70	1.05
1:B:1950:G:C2	1:B:1951:U:H1'	1.91	1.05
1:B:2135:A:H4'	1:B:2136:G:H5"	1.09	1.05
1:B:2394:C:C4'	1:B:2395:C:H5"	1.85	1.05
1:B:2645:G:C4'	1:B:2646:C:H5	1.69	1.05
1:B:2675:A:O2'	1:B:2676:C:H3'	1.54	1.05
1:B:2734:A:H3'	1:B:2735:G:H5'	1.07	1.05
1:B:2780:G:C5'	1:B:2781:A:C8	2.39	1.05
1:B:73:A:H5'	1:B:113:U:H6	1.19	1.05
1:B:775:G:H4'	1:B:776:G:OP2	1.52	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:837:C:H5'	1:B:975:A:C5'	1.86	1.05
1:B:850:U:O3'	1:B:851:C:P	2.15	1.05
1:B:898:C:H2'	1:B:899:A:H5'	1.32	1.05
1:B:1240:U:C5	1:B:1241:A:H8	1.74	1.05
1:B:1289:C:H1'	1:B:1648:U:C5'	1.85	1.05
1:B:1347:A:H5"	1:B:1348:C:P	1.97	1.05
1:B:1543:G:N3	1:B:1544:A:H8	1.55	1.05
1:B:1853:A:H3'	1:B:1888:G:O4'	1.57	1.05
1:B:1854:A:O5'	1:B:1888:G:C1'	2.03	1.05
1:B:1943:U:H6	1:B:2071:A:O3'	1.40	1.05
1:B:2379:G:H1'	1:B:2393:U:H1'	1.38	1.05
1:B:52:A:OP1	1:B:176:A:H2	1.37	1.05
1:B:71:A:N9	1:B:106:C:OP2	1.88	1.05
1:B:189:G:H5'	1:B:191:A:OP2	1.55	1.05
1:B:198:C:H2'	1:B:199:A:C8	1.90	1.05
1:B:509:C:H5'	1:B:510:C:OP2	1.56	1.05
1:B:572:A:H5'	1:B:2620:C:OP2	1.57	1.05
1:B:837:C:C1'	1:B:976:G:C8	2.39	1.05
1:B:861:A:H8	1:B:911:A:N3	1.54	1.05
1:B:1307:A:C4'	1:B:1308:A:H5"	1.86	1.05
1:B:1582:C:H5	1:B:1632:A:H3'	1.16	1.05
1:B:1675:C:H2'	1:B:1677:A:H2'	1.39	1.05
1:B:1884:G:H4'	1:B:1885:A:C3'	1.87	1.05
1:B:1941:C:P	1:B:2062:A:H2'	1.95	1.05
1:B:2378:A:C5'	1:B:2379:G:C8	2.39	1.05
1:B:73:A:O3'	1:B:113:U:C2'	2.04	1.04
1:B:75:G:H4'	1:B:100:U:C5	1.92	1.04
1:B:91:A:H2	1:B:94:A:N6	1.54	1.04
1:B:262:A:H2'	1:B:430:A:O4'	1.57	1.04
1:B:369:U:C5'	1:B:369:U:H4'	1.85	1.04
1:B:448:U:C2'	1:B:478:A:O2'	2.05	1.04
1:B:573:U:H5'	1:B:2044:C:OP2	1.56	1.04
1:B:600:G:H4'	1:B:602:A:C3'	1.87	1.04
1:B:608:A:C1'	1:B:610:C:N4	2.13	1.04
1:B:805:G:C1'	1:B:1252:G:C5'	2.34	1.04
1:B:1205:A:H2'	1:B:1206:G:C8	1.92	1.04
1:B:1463:C:H41	1:B:1544:A:H1'	1.16	1.04
1:B:1476:U:H5'	1:B:1515:A:O3'	1.57	1.04
1:B:1516:G:H4'	1:B:1517:G:C8	1.91	1.04
1:B:1671:U:O2	1:B:1672:A:C8	2.10	1.04
1:B:1847:A:H2'	1:B:2231:U:C1'	1.86	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1871:A:N1	1:B:1872:A:H1'	1.70	1.04
1:B:1931:U:H5'	1:B:1935:G:O5'	1.55	1.04
1:B:1952:A:C2'	1:B:1956:U:O4	2.05	1.04
1:B:2687:U:C2'	1:B:2688:G:H5'	1.86	1.04
1:B:2873:A:H3'	1:B:2874:C:H5'	1.06	1.04
1:B:15:G:H5"	1:B:1197:G:N3	1.70	1.04
1:B:74:A:OP1	1:B:113:U:C3'	2.05	1.04
1:B:77:G:OP2	1:B:99:U:H2'	1.54	1.04
1:B:84:A:N6	1:B:96:C:N4	2.05	1.04
1:B:92:U:H2'	1:B:498:G:H2'	1.34	1.04
1:B:183:C:H5'	1:B:207:A:N3	1.72	1.04
1:B:215:G:C2'	1:B:256:A:H3'	1.87	1.04
1:B:574:A:C1'	1:B:2039:U:C5'	2.35	1.04
1:B:577:G:N2	1:B:2018:G:H2'	1.72	1.04
1:B:834:G:C4'	1:B:977:G:H5'	1.87	1.04
1:B:857:G:C2'	1:B:912:C:N3	2.19	1.04
1:B:866:A:C2	1:B:915:C:H2'	1.91	1.04
1:B:984:A:H2'	1:B:985:C:C6	1.93	1.04
1:B:1131:G:H8	1:B:1132:U:O3'	1.36	1.04
1:B:1285:A:H2'	1:B:2011:U:H4'	1.38	1.04
1:B:1290:C:H5'	1:B:1647:U:OP1	1.57	1.04
1:B:1680:U:OP1	1:B:1701:A:H8	1.40	1.04
1:B:1933:G:O5'	1:B:1941:C:C6	2.09	1.04
1:B:2111:U:O4'	1:B:2112:G:C5'	2.04	1.04
1:B:2488:G:H1'	1:B:2505:G:C8	1.91	1.04
1:B:2629:U:C3'	1:B:2630:G:C5'	2.35	1.04
1:B:13:A:H5"	1:B:585:G:H21	1.15	1.04
1:B:215:G:H4'	1:B:215:G:H5'	1.36	1.04
1:B:215:G:O2'	1:B:256:A:C3'	2.03	1.04
1:B:271:G:H4'	1:B:2156:G:O6	1.56	1.04
1:B:321:U:O5'	1:B:324:A:H1'	1.56	1.04
1:B:450:G:C8	1:B:593:U:H1'	1.92	1.04
1:B:588:U:O3'	1:B:589:U:OP2	1.76	1.04
1:B:917:A:H5"	1:B:918:A:O5'	1.58	1.04
1:B:920:A:C8	1:B:921:C:O4'	2.10	1.04
1:B:1569:A:H62	1:B:1571:A:C5'	1.70	1.04
1:B:1573:G:H22	1:B:1632:A:H1'	1.18	1.04
1:B:1608:A:H2	1:B:1622:G:H5"	0.91	1.04
1:B:1866:A:C5'	1:B:1866:A:OP2	2.05	1.04
1:B:1883:U:H5'	1:B:1884:G:O5'	1.55	1.04
1:B:2450:A:OP2	1:B:2560:A:H5"	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2682:A:C5'	1:B:2683:C:H41	1.70	1.04
1:B:148:U:H4'	1:B:149:A:O5'	1.57	1.04
1:B:217:A:H3'	1:B:218:A:H5'	1.08	1.04
1:B:294:A:H1'	1:B:326:G:N2	1.72	1.04
1:B:402:A:H5"	1:B:403:U:C4	1.92	1.04
1:B:578:G:H5'	1:B:579:G:H5'	1.37	1.04
1:B:635:C:OP2	1:B:637:A:C8	2.10	1.04
1:B:684:G:H4'	1:B:776:G:P	1.98	1.04
1:B:805:G:H1'	1:B:1252:G:H5"	1.05	1.04
1:B:926:G:C3'	1:B:927:A:C4'	2.36	1.04
1:B:1024:G:H5'	1:B:2469:A:N6	1.71	1.04
1:B:1048:A:C5'	1:B:1049:C:C1'	2.34	1.04
1:B:1130:U:H3'	1:B:2753:A:OP2	1.58	1.04
1:B:1428:C:O2'	1:B:1429:G:H5'	1.57	1.04
1:B:1468:U:H2'	1:B:1469:A:OP2	1.57	1.04
1:B:1737:G:C5	1:B:1739:A:H5"	1.92	1.04
1:B:1856:U:C5'	1:B:1886:U:O4'	2.06	1.04
1:B:1935:G:H22	1:B:1940:U:C5'	1.70	1.04
1:B:2449:5MU:O3'	1:B:2560:A:H5'	1.58	1.04
1:B:2685:G:H1'	1:B:2722:G:H2'	1.36	1.04
1:B:93:G:H2'	1:B:498:G:H4'	1.36	1.04
1:B:103:A:H8	1:B:104:A:N7	1.55	1.04
1:B:103:A:N7	1:B:104:A:N6	2.06	1.04
1:B:270:A:C2'	1:B:271:G:C5'	2.31	1.04
1:B:319:G:H4'	1:B:320:A:P	1.98	1.04
1:B:320:A:O3'	1:B:324:A:N3	1.91	1.04
1:B:389:G:H5"	1:B:405:U:C2	1.92	1.04
1:B:445:C:H3'	1:B:470:A:C4	1.93	1.04
1:B:744:U:H2'	1:B:748:G:H5'	1.29	1.04
1:B:802:A:H61	1:B:1199:U:C1'	1.69	1.04
1:B:820:A:O3'	1:B:2628:C:H2'	1.58	1.04
1:B:840:C:H1'	1:B:963:U:C4'	1.87	1.04
1:B:859:G:N2	1:B:861:A:H62	1.53	1.04
1:B:862:G:H2'	1:B:863:A:C5'	1.88	1.04
1:B:866:A:H2'	1:B:915:C:H1'	1.36	1.04
1:B:1116:G:O3'	1:B:2750:A:C3'	2.06	1.04
1:B:1135:C:C5	1:B:1140:C:H5'	1.91	1.04
1:B:1516:G:H5'	1:B:1517:G:N7	1.73	1.04
1:B:1564:C:H4'	1:B:1565:C:H5"	1.36	1.04
1:B:1751:U:OP1	1:B:1988:G:H5"	1.55	1.04
1:B:1782:U:C2'	1:B:1783:A:C8	2.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1853:A:C4	1:B:1888:G:N7	2.25	1.04
1:B:1933:G:H4'	1:B:1941:C:OP1	1.58	1.04
1:B:1944:U:C3'	1:B:1944:U:O3'	2.06	1.04
1:B:2887:A:C2	1:B:2889:C:OP2	2.10	1.04
1:B:32:C:C5	1:B:33:C:H5	1.75	1.03
1:B:93:G:C2'	1:B:498:G:H4'	1.86	1.03
1:B:103:A:C8	1:B:104:A:N7	2.26	1.03
1:B:157:C:O3'	1:B:158:U:P	2.15	1.03
1:B:320:A:H1'	1:B:325:G:P	1.98	1.03
1:B:1286:A:H2'	1:B:1287:A:C8	1.93	1.03
1:B:1520:U:H2'	1:B:1536:C:H5'	1.32	1.03
1:B:1526:C:H5'	1:B:1527:G:OP1	1.56	1.03
1:B:1847:A:C5'	1:B:1848:A:OP1	2.05	1.03
1:B:1935:G:N2	1:B:1940:U:H5'	1.72	1.03
1:B:1951:U:O3'	1:B:1951:U:H3'	1.56	1.03
1:B:2364:C:H2'	1:B:2366:A:O2'	1.56	1.03
1:B:2719:G:C5'	1:B:2720:U:H6	1.72	1.03
1:B:69:C:H5"	1:B:85:G:H5'	1.35	1.03
1:B:449:A:P	1:B:478:A:H4'	1.98	1.03
1:B:452:G:H4'	1:B:478:A:C2'	1.87	1.03
1:B:760:G:H5'	1:B:761:A:C5'	1.89	1.03
1:B:762:U:H2'	1:B:763:G:C5'	1.87	1.03
1:B:764:A:C1'	1:B:765:C:C5	2.42	1.03
1:B:1312:U:H3'	1:B:1313:U:H5'	1.40	1.03
1:B:1597:A:H3'	1:B:1598:A:H5'	1.40	1.03
1:B:1626:A:C3'	1:B:1627:G:H5'	1.88	1.03
1:B:1855:U:C2	1:B:1884:G:O2'	2.10	1.03
1:B:1884:G:C4'	1:B:1885:A:H3'	1.87	1.03
1:B:1927:A:O3'	1:B:1928:A:P	2.16	1.03
1:B:2111:U:H1'	1:B:2112:G:O3'	1.57	1.03
1:B:10:A:H4'	1:B:525:U:O2'	1.57	1.03
1:B:11:C:H5'	1:B:586:A:H4'	1.37	1.03
1:B:84:A:H61	1:B:96:C:N4	1.56	1.03
1:B:219:A:H4'	1:B:256:A:O3'	1.55	1.03
1:B:573:U:C2'	1:B:2045:C:OP2	2.07	1.03
1:B:760:G:H5'	1:B:761:A:H5'	1.05	1.03
1:B:762:U:H2'	1:B:763:G:H5'	1.05	1.03
1:B:916:G:C3'	1:B:917:A:H5'	1.87	1.03
1:B:1132:U:C6	1:B:2753:A:N1	2.25	1.03
1:B:1289:C:H5'	1:B:1648:U:O3'	1.56	1.03
1:B:1465:G:C4'	1:B:1466:U:O5'	2.06	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1522:A:C3'	1:B:1528:A:N3	2.21	1.03
1:B:1568:G:H3'	1:B:1570:A:N7	1.72	1.03
1:B:1854:A:O5'	1:B:1888:G:N9	1.91	1.03
1:B:1854:A:H4'	1:B:1888:G:N9	1.73	1.03
1:B:1952:A:H2'	1:B:1956:U:O4	1.57	1.03
1:B:2849:U:O4'	1:B:2872:A:C2'	2.05	1.03
1:B:2894:G:H8	1:B:2895:G:H4'	1.19	1.03
1:B:15:G:C1'	1:B:1256:G:H4'	1.87	1.03
1:B:23:G:H1'	1:B:508:A:H5'	1.37	1.03
1:B:87:U:C5	1:B:88:G:O4'	2.11	1.03
1:B:329:G:H1'	1:B:335:C:N4	1.72	1.03
1:B:507:A:C2'	1:B:518:G:H1'	1.88	1.03
1:B:574:A:H2'	1:B:2040:G:OP1	1.56	1.03
1:B:646:U:H3'	1:B:647:G:H5'	1.08	1.03
1:B:804:A:C5'	1:B:1254:A:N1	2.21	1.03
1:B:867:C:H3'	1:B:868:U:C6	1.93	1.03
1:B:1307:A:H4'	1:B:1308:A:O5'	1.59	1.03
1:B:1427:A:O2'	1:B:1430:C:C5'	2.07	1.03
1:B:1852:U:O3'	1:B:1885:A:C1'	2.05	1.03
1:B:1860:G:O6	1:B:1884:G:N7	1.90	1.03
1:B:2375:G:H5'	1:B:2414:G:C5'	1.88	1.03
1:B:77:G:OP2	1:B:120:U:P	2.17	1.03
1:B:99:U:C2	1:B:102:U:H5'	1.94	1.03
1:B:249:C:H6	1:B:249:C:OP2	1.42	1.03
1:B:367:G:O2'	1:B:368:A:H2	1.41	1.03
1:B:500:G:C1'	1:B:505:A:H1'	1.88	1.03
1:B:1155:A:H1'	1:B:1156:A:N7	1.73	1.03
1:B:1242:U:H4'	1:B:1243:C:C6	1.94	1.03
1:B:1581:G:O2'	1:B:1582:C:H5'	1.57	1.03
1:B:1751:U:H5"	1:B:1752:C:H5'	1.38	1.03
1:B:1856:U:P	1:B:1886:U:C5'	2.46	1.03
1:B:2117:A:H2'	1:B:2172:U:O4	1.56	1.03
1:B:2359:C:OP1	1:B:2360:G:C8	2.12	1.03
1:B:8:C:OP1	1:B:9:G:C3'	2.05	1.02
1:B:93:G:C8	1:B:498:G:O3'	2.11	1.02
1:B:119:A:O3'	1:B:120:U:P	2.17	1.02
1:B:197:A:H5"	1:B:198:C:OP2	1.59	1.02
1:B:221:A:N7	1:B:223:A:C8	2.27	1.02
1:B:821:A:H4'	1:B:822:G:C8	1.93	1.02
1:B:1032:A:H2	1:B:1121:C:H41	1.03	1.02
1:B:1048:A:H1'	1:B:1049:C:C5	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1131:G:P	1:B:2752:C:H2'	1.98	1.02
1:B:1252:G:N2	1:B:1253:A:H5'	1.74	1.02
1:B:1492:G:H3'	1:B:1493:C:C5'	1.89	1.02
1:B:1667:G:H3'	1:B:1668:A:OP2	1.58	1.02
1:B:1668:A:OP1	1:B:1669:A:H5'	1.57	1.02
1:B:1696:G:O4'	1:B:1697:G:H8	1.42	1.02
1:B:1752:C:O3'	1:B:1988:G:H4'	1.59	1.02
1:B:1790:C:H5"	1:B:2443:C:H5'	1.04	1.02
1:B:1932:A:C5'	1:B:1941:C:O2	2.06	1.02
1:B:1933:G:C5'	1:B:2063:C:OP2	2.07	1.02
1:B:1933:G:C2'	1:B:1935:G:H3'	1.89	1.02
1:B:2022:U:H3'	1:B:2023:C:H5'	1.07	1.02
1:B:2202:U:C2'	1:B:2204:G:H5'	1.89	1.02
1:B:2258:C:HO3'	1:B:2259:U:P	1.81	1.02
1:B:2533:U:H2'	1:B:2534:A:H5'	1.40	1.02
1:B:2556:C:O3'	1:B:2557:G:C5'	2.06	1.02
1:B:2667:C:C2'	1:B:2668:G:H8	1.72	1.02
1:B:2848:G:H4'	1:B:2870:C:C5'	1.88	1.02
1:B:11:C:C2'	1:B:1195:G:H3'	1.89	1.02
1:B:179:C:O2	1:B:196:A:H5"	1.59	1.02
1:B:684:G:C2'	1:B:788:A:C2	2.42	1.02
1:B:803:U:O3'	1:B:803:U:H3'	1.58	1.02
1:B:834:G:H4'	1:B:977:G:H5'	1.05	1.02
1:B:858:G:C6	1:B:913:U:O2	2.12	1.02
1:B:971:G:C1'	1:B:972:A:C2	2.43	1.02
1:B:990:A:O3'	1:B:991:C:P	2.17	1.02
1:B:1264:A:N3	1:B:1265:A:H5'	1.74	1.02
1:B:1283:G:O3'	1:B:2012:G:H2'	1.55	1.02
1:B:1469:A:C3'	1:B:1528:A:H62	1.72	1.02
1:B:2498:5MC:P	1:B:2657:A:H2	1.82	1.02
1:B:2690:U:C3'	1:B:2691:C:H5'	1.89	1.02
1:B:2713:U:C2'	1:B:2714:G:H5'	1.90	1.02
1:B:2849:U:P	1:B:2871:U:H1'	1.99	1.02
1:B:71:A:H4'	1:B:114:U:OP1	1.59	1.02
1:B:75:G:O3'	1:B:119:A:H4'	1.58	1.02
1:B:75:G:O3'	1:B:100:U:H6	1.43	1.02
1:B:140:C:H2'	1:B:141:G:H1'	1.36	1.02
1:B:142:A:H5"	1:B:1330:C:O2'	1.60	1.02
1:B:524:G:H5"	1:B:525:U:OP2	1.59	1.02
1:B:525:U:H3'	1:B:811:U:H1'	1.36	1.02
1:B:782:A:H5'	1:B:783:A:C8	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:792:A:C2	1:B:793:A:H5”	1.94	1.02
1:B:804:A:H4’	1:B:804:A:H5’	1.41	1.02
1:B:837:C:H5’	1:B:975:A:C4’	1.89	1.02
1:B:916:G:H5’	1:B:917:A:H4’	1.07	1.02
1:B:941:A:C5’	1:B:941:A:H4’	1.90	1.02
1:B:1453:A:H3’	1:B:1526:C:O5’	1.59	1.02
1:B:1470:A:C5’	1:B:1472:C:H5’	1.88	1.02
1:B:1515:A:H2’	1:B:1516:G:OP2	1.58	1.02
1:B:1674:G:C5’	1:B:1678:A:N1	2.23	1.02
1:B:1675:C:H5”	1:B:1679:A:C2’	1.88	1.02
1:B:1737:G:N7	1:B:1739:A:H5”	1.72	1.02
1:B:1882:U:C3’	1:B:1883:U:C5’	2.27	1.02
1:B:1906:G:OP1	1:B:1936:A:H2’	1.57	1.02
1:B:1933:G:H1’	1:B:1935:G:H21	1.24	1.02
1:B:2377:A:H2’	1:B:2394:C:C6	1.94	1.02
1:B:33:C:H1’	1:B:677:A:C2	1.93	1.02
1:B:99:U:H3	1:B:102:U:C5’	1.71	1.02
1:B:129:C:OP1	1:B:1327:A:N6	1.92	1.02
1:B:137:U:C2’	1:B:1325:U:C5’	2.38	1.02
1:B:206:U:P	1:B:207:A:H5’	2.00	1.02
1:B:423:A:H3’	1:B:424:G:H5’	1.38	1.02
1:B:535:G:H5”	1:B:950:G:H4’	1.03	1.02
1:B:762:U:C2’	1:B:763:G:C5’	2.38	1.02
1:B:926:G:H3’	1:B:927:A:C4’	1.89	1.02
1:B:1211:C:H4’	1:B:1212:G:C5’	1.88	1.02
1:B:1298:C:O5’	1:B:1339:G:N2	1.92	1.02
1:B:1568:G:C5’	1:B:1568:G:H4’	1.83	1.02
1:B:1568:G:C3’	1:B:1570:A:N7	2.21	1.02
1:B:1586:A:O2’	1:B:1587:G:C8	2.13	1.02
1:B:1672:A:N3	1:B:1673:G:C3’	2.23	1.02
1:B:1673:G:H8	1:B:1680:U:C5	1.71	1.02
1:B:2135:A:C4’	1:B:2136:G:H5”	1.88	1.02
1:B:2158:A:H2’	1:B:2159:G:H5’	1.21	1.02
1:B:2364:C:C2’	1:B:2366:A:O2’	2.07	1.02
1:B:110:G:C3’	1:B:111:A:P	2.48	1.02
1:B:670:A:C5’	1:B:670:A:H4’	1.55	1.02
1:B:674:G:H1	1:B:1247:A:H4’	1.25	1.02
1:B:728:G:H2’	1:B:729:G:H5’	1.07	1.02
1:B:798:G:OP1	1:B:801:G:H3’	1.60	1.02
1:B:1546:G:C2’	1:B:1547:C:H5’	1.89	1.02
1:B:1625:C:O2’	1:B:1643:G:C5’	2.08	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1672:A:C2'	1:B:1673:G:O3'	2.07	1.02
1:B:1679:A:N1	1:B:1690:A:C8	2.28	1.02
1:B:1712:U:H2'	1:B:1713:A:H4'	1.41	1.02
1:B:1848:A:OP2	1:B:2089:C:H1'	1.59	1.02
1:B:1882:U:H3'	1:B:1883:U:H5"	1.04	1.02
1:B:1938:A:C5'	1:B:1941:C:N4	2.23	1.02
1:B:1943:U:C4	1:B:2071:A:H5"	1.93	1.02
1:B:2517:C:O3'	1:B:2518:A:OP1	1.76	1.02
1:B:2871:U:H5"	1:B:2872:A:N9	1.74	1.02
1:B:76:C:H5	1:B:119:A:O2'	1.22	1.01
1:B:124:G:C2	1:B:125:A:H5"	1.94	1.01
1:B:188:G:C5'	1:B:218:A:OP1	2.08	1.01
1:B:667:U:H5'	1:B:670:A:OP1	1.59	1.01
1:B:757:G:H1'	1:B:1951:U:C5'	1.90	1.01
1:B:857:G:C1'	1:B:912:C:O2	2.08	1.01
1:B:857:G:H1'	1:B:912:C:O2	1.60	1.01
1:B:858:G:H5"	1:B:859:G:O5'	1.60	1.01
1:B:1857:G:P	1:B:1857:G:HO5'	1.82	1.01
1:B:2104:C:C4'	1:B:2105:U:H5	1.72	1.01
1:B:2320:U:H5"	1:B:2322:A:H5'	1.23	1.01
1:B:82:U:O2'	1:B:84:A:C1'	2.09	1.01
1:B:92:U:O2'	1:B:498:G:H2'	1.60	1.01
1:B:270:A:N3	1:B:270:A:O2'	1.92	1.01
1:B:435:C:O3'	1:B:436:C:P	2.18	1.01
1:B:762:U:C1'	1:B:763:G:C5'	2.35	1.01
1:B:857:G:H2'	1:B:912:C:N3	1.75	1.01
1:B:913:U:C2	1:B:919:U:C4	2.47	1.01
1:B:1048:A:H5'	1:B:1049:C:N1	1.75	1.01
1:B:1289:C:H5'	1:B:1649:G:P	1.99	1.01
1:B:1425:G:O3'	1:B:1567:G:C8	2.13	1.01
1:B:1520:U:H2'	1:B:1536:C:C5'	1.90	1.01
1:B:1584:U:N1	1:B:1635:A:H5"	1.74	1.01
1:B:1609:A:C1'	1:B:1621:U:O2'	2.09	1.01
1:B:1718:G:H3'	1:B:1720:U:C1'	1.91	1.01
1:B:1935:G:O6	1:B:2062:A:C2	2.14	1.01
1:B:1955:U:O2'	1:B:1956:U:H5'	1.58	1.01
1:B:2394:C:C4'	1:B:2395:C:C5'	2.37	1.01
1:B:2848:G:C8	1:B:2872:A:OP2	2.13	1.01
1:B:100:U:H1'	1:B:113:U:H5'	1.42	1.01
1:B:137:U:O2	1:B:1325:U:C5'	2.09	1.01
1:B:322:A:H3'	1:B:323:C:OP1	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:A:H4'	1:B:428:A:H3'	1.41	1.01
1:B:672:C:H5"	1:B:1248:G:N7	1.76	1.01
1:B:846:U:C5'	1:B:846:U:H4'	1.86	1.01
1:B:981:A:H2'	1:B:982:C:H5'	1.38	1.01
1:B:1006:C:C5'	1:B:1007:C:H5"	1.91	1.01
1:B:1348:C:C2'	1:B:1349:C:OP2	2.06	1.01
1:B:1450:G:N2	1:B:1452:G:H5'	1.75	1.01
1:B:1825:U:C5'	1:B:1967:C:H41	1.72	1.01
1:B:2374:C:O3'	1:B:2413:G:H4'	1.57	1.01
1:B:2849:U:C4'	1:B:2850:A:H5'	1.90	1.01
1:B:12:U:O2'	1:B:813:U:H1'	1.60	1.01
1:B:744:U:O2	1:B:748:G:H5'	1.60	1.01
1:B:757:G:H21	1:B:1951:U:P	1.82	1.01
1:B:764:A:O3'	1:B:764:A:C4'	2.07	1.01
1:B:839:U:H5"	1:B:961:C:C5	1.96	1.01
1:B:850:U:O2'	1:B:851:C:O4'	1.78	1.01
1:B:1050:A:C4'	1:B:1051:G:H5"	1.91	1.01
1:B:1163:G:O3'	1:B:1164:C:OP2	1.78	1.01
1:B:1404:C:O3'	1:B:1405:U:P	2.18	1.01
1:B:1434:A:H4'	1:B:1435:G:C8	1.96	1.01
1:B:1620:G:OP2	1:B:1621:U:H5	1.34	1.01
1:B:1663:G:H5"	1:B:1664:A:OP2	1.59	1.01
1:B:1825:U:H5"	1:B:1967:C:H41	1.22	1.01
1:B:1853:A:C5'	1:B:1855:U:N3	2.23	1.01
1:B:1938:A:H5'	1:B:1941:C:C4	1.94	1.01
1:B:2060:A:H5'	1:B:2446:G:H5'	1.01	1.01
1:B:2503:A:C5'	1:B:2504:U:C5'	2.38	1.01
1:B:99:U:C4'	1:B:102:U:H1'	1.90	1.01
1:B:329:G:H22	1:B:330:A:H62	1.08	1.01
1:B:451:U:C6	1:B:460:A:C5'	2.43	1.01
1:B:568:U:C2	1:B:833:A:C5'	2.44	1.01
1:B:574:A:N3	1:B:2040:G:OP2	1.94	1.01
1:B:799:G:OP1	1:B:800:A:C1'	2.08	1.01
1:B:1787:A:C2	1:B:2556:C:OP2	2.14	1.01
1:B:1934:C:P	1:B:1941:C:C1'	2.48	1.01
1:B:2808:G:H2'	1:B:2809:A:H3'	1.03	1.01
1:B:91:A:H2'	1:B:498:G:C5	1.95	1.00
1:B:222:A:H5"	1:B:262:A:H62	1.22	1.00
1:B:240:C:H3'	1:B:275:C:H5"	1.40	1.00
1:B:588:U:HO3'	1:B:589:U:H6	1.04	1.00
1:B:600:G:C4'	1:B:602:A:O3'	2.09	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:A:O4'	1:B:604:G:C8	2.15	1.00
1:B:764:A:H4'	1:B:765:C:P	2.00	1.00
1:B:781:A:C8	1:B:785:G:H3'	1.97	1.00
1:B:859:G:C2	1:B:861:A:N6	2.28	1.00
1:B:980:A:N1	1:B:982:C:N4	2.09	1.00
1:B:1023:U:H2'	1:B:2466:C:H41	1.22	1.00
1:B:1032:A:H2	1:B:1121:C:N4	1.58	1.00
1:B:1480:C:H2'	1:B:1481:U:H5'	1.07	1.00
1:B:1564:C:C4'	1:B:1565:C:H5'	1.91	1.00
1:B:1791:A:C4	1:B:1934:C:C6	2.49	1.00
1:B:1847:A:H4'	1:B:1848:A:O2'	1.58	1.00
1:B:1848:A:O3'	1:B:1849:G:P	2.19	1.00
1:B:1853:A:H2	1:B:1855:U:OP2	1.41	1.00
1:B:2637:U:O2'	1:B:2777:G:H2'	1.59	1.00
1:B:2849:U:C6	1:B:2872:A:O2'	2.14	1.00
1:B:81:G:O6	1:B:98:G:O6	1.79	1.00
1:B:202:U:O2'	1:B:204:A:C1'	2.10	1.00
1:B:213:A:N6	1:B:218:A:H3'	1.76	1.00
1:B:329:G:HO2'	1:B:335:C:H5	1.06	1.00
1:B:453:A:C8	1:B:478:A:C8	2.47	1.00
1:B:575:A:O3'	1:B:2041:U:H1'	1.60	1.00
1:B:598:U:H5'	1:B:937:C:H5"	1.39	1.00
1:B:675:A:O3'	1:B:1250:G:H8	1.41	1.00
1:B:706:A:O2'	1:B:707:G:H8	1.43	1.00
1:B:757:G:H2'	1:B:758:C:O4'	1.61	1.00
1:B:783:A:N3	1:B:784:G:H5'	1.75	1.00
1:B:845:A:H4'	1:B:846:U:P	2.00	1.00
1:B:867:C:HO2'	1:B:915:C:H6	1.01	1.00
1:B:1022:G:H21	1:B:2482:A:H8	1.02	1.00
1:B:1302:A:C4'	1:B:1303:G:C8	2.42	1.00
1:B:1418:G:H2'	1:B:1634:A:N6	1.75	1.00
1:B:1756:G:H1'	1:B:1757:A:N7	1.76	1.00
1:B:1790:C:O5'	1:B:2443:C:C5'	2.03	1.00
1:B:1932:A:C5'	1:B:1941:C:N3	2.25	1.00
1:B:1933:G:C5'	1:B:1941:C:O4'	2.08	1.00
1:B:1938:A:N3	1:B:2064:C:OP1	1.94	1.00
1:B:2503:A:H5"	1:B:2504:U:O5'	1.60	1.00
1:B:2682:A:C4	1:B:2688:G:H1'	1.97	1.00
1:B:2846:G:C4'	1:B:2848:G:N9	2.23	1.00
1:B:72:U:O2	1:B:114:U:H4'	1.62	1.00
1:B:87:U:OP2	1:B:88:G:N7	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:99:U:P	1:B:102:U:C2'	2.48	1.00
1:B:124:G:H3'	1:B:125:A:H5'	1.42	1.00
1:B:141:G:O6	1:B:1324:G:C1'	2.10	1.00
1:B:324:A:O3'	1:B:325:G:P	2.19	1.00
1:B:460:A:H5"	1:B:461:C:OP1	1.60	1.00
1:B:500:G:H2'	1:B:501:A:O2'	1.61	1.00
1:B:500:G:C6	1:B:504:A:H5"	1.95	1.00
1:B:608:A:C5'	1:B:609:A:C8	2.43	1.00
1:B:618:G:H3'	1:B:619:G:H5"	1.39	1.00
1:B:1510:G:OP1	1:B:1510:G:H8	1.43	1.00
1:B:1701:A:H5"	1:B:1989:G:O6	1.60	1.00
1:B:1752:C:H5"	1:B:1987:A:O3'	1.60	1.00
1:B:2345:G:P	1:B:2380:C:N4	2.34	1.00
1:B:2556:C:C5'	1:B:2557:G:H5'	1.91	1.00
1:B:28:A:C8	1:B:673:C:C2'	2.43	1.00
1:B:98:G:H3'	1:B:102:U:H3'	1.38	1.00
1:B:100:U:C2	1:B:113:U:C4'	2.43	1.00
1:B:141:G:C2'	1:B:1331:G:O2'	2.10	1.00
1:B:684:G:H2'	1:B:788:A:H2	0.86	1.00
1:B:1426:G:H5'	1:B:1572:A:H1'	1.01	1.00
1:B:1936:A:C8	1:B:1938:A:C2'	2.40	1.00
1:B:1973:G:C4'	1:B:2062:A:C2	2.43	1.00
1:B:2060:A:H2	1:B:2551:C:H1'	1.22	1.00
1:B:2503:A:H5"	1:B:2504:U:C4'	1.90	1.00
1:B:383:C:H5"	1:B:384:A:H5"	1.41	1.00
1:B:574:A:H1'	1:B:2039:U:C3'	1.92	1.00
1:B:1935:G:O6	1:B:2062:A:H2	1.44	1.00
1:B:2076:U:C4'	1:B:2077:A:N7	2.23	1.00
1:B:2685:G:C1'	1:B:2722:G:H2'	1.90	1.00
1:B:1048:A:O5'	1:B:1049:C:H1'	1.59	1.00
1:B:1944:U:O3'	1:B:1945:G:P	2.20	1.00
1:B:1971:U:H3'	1:B:2444:G:OP2	1.60	1.00
1:B:2686:G:H3'	1:B:2722:G:H22	1.27	1.00
1:B:2884:U:O3'	1:B:2887:A:C8	2.13	1.00
1:B:28:A:H2'	1:B:29:U:P	2.01	1.00
1:B:202:U:OP2	1:B:204:A:C5'	2.10	1.00
1:B:322:A:C3'	1:B:323:C:OP1	2.09	1.00
1:B:809:G:H5"	1:B:810:U:OP1	1.61	1.00
1:B:1933:G:O2'	1:B:1935:G:C3'	2.09	1.00
1:B:1942:C:C4'	1:B:2441:U:O2'	2.08	1.00
1:B:1981:A:H2'	1:B:1982:U:C6	1.97	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2058:A:N6	1:B:2068:U:O2	1.95	1.00
1:B:2133:G:H5'	1:B:2134:A:C2	1.96	1.00
1:B:2226:C:H2'	1:B:2227:A:O4'	1.60	1.00
1:B:2851:A:C8	1:B:2871:U:C5	2.49	1.00
1:B:76:C:H5	1:B:119:A:C2'	1.63	0.99
1:B:221:A:H5"	1:B:277:G:C2'	1.92	0.99
1:B:739:A:H3'	1:B:740:C:H5"	1.42	0.99
1:B:1546:G:H2'	1:B:1547:C:O4'	1.60	0.99
1:B:1854:A:P	1:B:1888:G:H3'	2.01	0.99
1:B:2871:U:H5'	1:B:2872:A:OP1	1.62	0.99
1:B:310:A:C2'	1:B:483:A:C6	2.45	0.99
1:B:675:A:H4'	1:B:1250:G:C8	1.96	0.99
1:B:764:A:HO3'	1:B:765:C:P	1.82	0.99
1:B:1022:G:H5"	1:B:1023:U:OP2	1.62	0.99
1:B:1696:G:O4'	1:B:1697:G:H3'	1.61	0.99
1:B:1888:G:C1'	1:B:1888:G:N9	2.25	0.99
1:B:1899:A:H3'	1:B:1900:A:O4'	1.63	0.99
1:B:2042:A:H3'	1:B:2043:C:H5'	1.41	0.99
1:B:2108:A:OP1	1:B:2110:G:H3'	1.61	0.99
1:B:2345:G:P	1:B:2380:C:C4	2.55	0.99
1:B:2497:A:H5'	1:B:2658:C:H1'	1.40	0.99
1:B:2571:U:C5'	1:B:2647:U:H4'	1.91	0.99
1:B:760:G:C5'	1:B:761:A:C5'	2.38	0.99
1:B:859:G:C5'	1:B:859:G:O4'	2.10	0.99
1:B:1202:G:N3	1:B:1203:U:C5	2.31	0.99
1:B:1451:C:O3'	1:B:1526:C:H5"	1.62	0.99
1:B:1668:A:P	1:B:1669:A:O4'	2.19	0.99
1:B:1938:A:C5'	1:B:1938:A:H4'	1.91	0.99
1:B:2258:C:O3'	1:B:2259:U:P	2.20	0.99
1:B:206:U:OP2	1:B:207:A:H5'	1.62	0.99
1:B:270:A:C2'	1:B:271:G:OP1	2.10	0.99
1:B:285:G:OP1	1:B:401:A:H3'	1.62	0.99
1:B:452:G:C8	1:B:479:A:P	2.55	0.99
1:B:762:U:C1'	1:B:763:G:O4'	2.08	0.99
1:B:1655:A:C3'	1:B:1656:C:H5'	1.89	0.99
1:B:2450:A:P	1:B:2560:A:H5"	2.01	0.99
1:B:2726:A:C3'	1:B:2727:A:H5'	1.91	0.99
1:B:75:G:O3'	1:B:100:U:C6	2.15	0.99
1:B:203:A:O5'	1:B:204:A:C8	2.16	0.99
1:B:223:A:H4'	1:B:224:U:H6	1.21	0.99
1:B:779:U:N3	1:B:794:A:C8	2.29	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:858:G:N1	1:B:913:U:O2	1.95	0.99
1:B:1377:G:C8	1:B:1378:A:N1	2.30	0.99
1:B:1676:A:P	1:B:1678:A:H5'	2.03	0.99
1:B:1791:A:H1'	1:B:1934:C:H3'	1.44	0.99
1:B:1852:U:H5"	1:B:1886:U:O4	1.60	0.99
1:B:1942:C:H5"	1:B:2442:C:H5'	1.40	0.99
1:B:2076:U:C4'	1:B:2077:A:C8	2.45	0.99
1:B:2451:A:H2'	1:B:2452:C:OP1	1.62	0.99
1:B:2820:A:O2'	1:B:2821:A:C4'	2.09	0.99
1:B:78:U:H5	1:B:99:U:C4'	1.73	0.99
1:B:101:A:O2'	1:B:103:A:H5"	1.61	0.99
1:B:126:A:H3'	1:B:128:C:H41	1.15	0.99
1:B:411:G:H4'	1:B:2406:A:C3'	1.91	0.99
1:B:674:G:N2	1:B:1247:A:O3'	1.94	0.99
1:B:1005:C:C1'	1:B:1011:G:H5'	1.93	0.99
1:B:1189:A:H5"	1:B:1190:G:C4'	1.93	0.99
1:B:1950:G:O2'	1:B:1951:U:P	2.20	0.99
1:B:2070:A:H2'	1:B:2071:A:H5'	1.40	0.99
1:B:2199:A:H2'	1:B:2200:C:H5'	1.00	0.99
1:B:2725:A:H5"	1:B:2728:U:H5"	1.42	0.99
1:B:100:U:P	1:B:101:A:C8	2.56	0.99
1:B:213:A:C8	1:B:214:G:H5'	1.96	0.99
1:B:223:A:C5	1:B:260:G:OP2	2.14	0.99
1:B:362:A:C5'	1:B:428:A:H5'	1.91	0.99
1:B:411:G:O2'	1:B:2406:A:H8	1.46	0.99
1:B:448:U:H2'	1:B:478:A:N9	1.78	0.99
1:B:608:A:H5'	1:B:609:A:N7	1.77	0.99
1:B:686:U:C5'	1:B:687:C:C5	2.46	0.99
1:B:1572:A:N1	1:B:1573:G:H5'	1.78	0.99
1:B:1853:A:C5'	1:B:1855:U:H3	1.74	0.99
1:B:2741:A:H2'	1:B:2742:G:C4'	1.93	0.99
1:B:72:U:O3'	1:B:72:U:H3'	1.61	0.99
1:B:75:G:O3'	1:B:119:A:C5'	2.09	0.99
1:B:239:C:C5	1:B:276:U:C5'	2.45	0.99
1:B:500:G:H1'	1:B:505:A:H1'	1.43	0.99
1:B:876:C:H42	1:B:900:A:C5'	1.75	0.99
1:B:1017:G:H5'	1:B:2754:U:H5	0.82	0.99
1:B:1449:G:H5"	1:B:1587:G:C5'	1.92	0.99
1:B:1569:A:C8	1:B:1570:A:C3'	2.24	0.99
1:B:2296:U:O3'	1:B:2297:A:P	2.21	0.99
1:B:2365:G:P	1:B:2366:A:H2'	2.03	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2789:C:H5	1:B:2889:C:H2'	1.28	0.99
1:B:2833:U:H5"	1:B:2834:G:OP2	1.63	0.99
1:B:2848:G:C2'	1:B:2872:A:O5'	2.09	0.99
1:B:100:U:O2'	1:B:101:A:C6	2.14	0.99
1:B:195:A:H2'	1:B:196:A:H8	1.27	0.99
1:B:207:A:C5'	1:B:208:C:OP1	2.10	0.99
1:B:217:A:H4'	1:B:218:A:OP2	1.59	0.99
1:B:262:A:P	1:B:429:A:H4'	2.02	0.99
1:B:483:A:H2'	1:B:484:C:H5'	1.38	0.99
1:B:574:A:H5'	1:B:2044:C:H5'	1.42	0.99
1:B:1425:G:O2'	1:B:1567:G:H5'	1.62	0.99
1:B:1670:C:C2	1:B:1753:G:C8	2.50	0.99
1:B:1971:U:H5	1:B:2554:U:H5'	1.20	0.99
1:B:2212:A:H2'	1:B:2213:U:C5'	1.92	0.99
1:B:2786:U:O3'	1:B:2813:A:H5"	1.62	0.99
1:B:2806:C:H1'	1:B:2808:G:OP2	1.60	0.99
1:B:76:C:O2'	1:B:148:U:OP1	1.79	0.99
1:B:102:U:O4	1:B:119:A:N6	1.94	0.99
1:B:451:U:C6	1:B:460:A:H5'	1.98	0.99
1:B:585:G:H5"	1:B:1196:C:O5'	1.63	0.99
1:B:1130:U:H4'	1:B:2752:C:H4'	1.01	0.99
1:B:1463:C:H1'	1:B:1467:U:H1'	1.43	0.99
1:B:1568:G:C3'	1:B:1570:A:H62	1.75	0.99
1:B:2543:G:H5"	1:B:2610:C:H42	1.28	0.99
1:B:2739:U:OP1	1:B:2741:A:H5'	1.63	0.99
1:B:15:G:H5"	1:B:1197:G:C4	1.98	0.98
1:B:78:U:C5	1:B:99:U:C4'	2.45	0.98
1:B:320:A:C3'	1:B:324:A:H2'	1.93	0.98
1:B:457:A:C2	1:B:458:G:C3'	2.46	0.98
1:B:585:G:C5'	1:B:1196:C:C5'	2.40	0.98
1:B:759:G:H5'	1:B:1950:G:P	2.03	0.98
1:B:1016:G:O5'	1:B:2753:A:C8	2.16	0.98
1:B:1751:U:C5'	1:B:1752:C:H5'	1.91	0.98
1:B:2556:C:H3'	1:B:2557:G:O3'	1.62	0.98
1:B:320:A:H2'	1:B:324:A:O3'	1.63	0.98
1:B:442:G:H3'	1:B:443:A:C5'	1.89	0.98
1:B:471:A:N1	1:B:677:A:H8	1.62	0.98
1:B:1047:G:C5'	1:B:1049:C:C2'	2.34	0.98
1:B:1214:A:H5"	1:B:1215:G:N7	1.78	0.98
1:B:1453:A:H2'	1:B:1525:A:O3'	1.60	0.98
1:B:1543:G:H2'	1:B:1544:A:H5"	1.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1564:C:C3’	1:B:1565:C:H5’	1.92	0.98
1:B:2411:A:H2’	1:B:2412:A:OP2	1.63	0.98
1:B:75:G:H5”	1:B:113:U:O5’	1.63	0.98
1:B:101:A:H4’	1:B:102:U:P	2.02	0.98
1:B:762:U:C5’	1:B:1950:G:C5’	2.41	0.98
1:B:1283:G:C4’	1:B:2012:G:H21	1.76	0.98
1:B:1672:A:C4	1:B:1673:G:H2’	1.97	0.98
1:B:1693:U:H5’	1:B:2702:G:N2	1.79	0.98
1:B:1848:A:O2’	1:B:1848:A:N3	1.95	0.98
1:B:1899:A:H3’	1:B:1900:A:C1’	1.91	0.98
1:B:1934:C:P	1:B:1934:C:HO5’	1.85	0.98
1:B:240:C:P	1:B:275:C:C3’	2.50	0.98
1:B:450:G:C2’	1:B:451:U:H5’	1.92	0.98
1:B:602:A:C1’	1:B:604:G:C8	2.45	0.98
1:B:834:G:C4’	1:B:977:G:C5’	2.41	0.98
1:B:850:U:O3’	1:B:851:C:C5’	2.11	0.98
1:B:1043:C:H2’	1:B:1044:C:O5’	1.63	0.98
1:B:1116:G:H4’	1:B:2751:G:OP1	1.63	0.98
1:B:1211:C:H5”	1:B:1235:G:H1’	1.42	0.98
1:B:1454:C:H5”	1:B:1455:G:OP2	1.63	0.98
1:B:1791:A:OP1	1:B:2442:C:H4’	1.62	0.98
1:B:2109:U:H3’	1:B:2111:U:OP2	1.63	0.98
1:B:2296:U:O2’	1:B:2297:A:H5’	1.63	0.98
1:B:2375:G:C5’	1:B:2414:G:C5’	2.40	0.98
1:B:2871:U:C5’	1:B:2872:A:O5’	2.11	0.98
1:B:12:U:P	1:B:1195:G:N3	2.37	0.98
1:B:81:G:O6	1:B:98:G:C6	2.17	0.98
1:B:180:G:C6	1:B:198:C:H5”	1.98	0.98
1:B:231:A:H5”	1:B:232:G:OP1	1.63	0.98
1:B:446:G:C5’	1:B:471:A:H3’	1.94	0.98
1:B:482:A:H61	1:B:512:G:N2	1.61	0.98
1:B:585:G:N7	1:B:1195:G:H4’	1.78	0.98
1:B:655:A:H5”	1:B:656:G:C8	1.98	0.98
1:B:1050:A:H5”	1:B:1051:G:H5”	1.01	0.98
1:B:1050:A:H4’	1:B:1051:G:C5’	1.93	0.98
1:B:1916:A:H2’	1:B:1917:PSU:C6	1.99	0.98
1:B:2050:C:H5”	1:B:2051:A:OP2	1.64	0.98
1:B:2113:U:C5	1:B:2120:G:H8	1.81	0.98
1:B:2685:G:H1’	1:B:2722:G:C2’	1.94	0.98
1:B:2894:G:C8	1:B:2895:G:H4’	1.98	0.98
1:B:76:C:N4	1:B:112:U:H5”	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:93:G:C2'	1:B:498:G:C4'	2.40	0.98
1:B:100:U:O4	1:B:118:A:C1'	2.10	0.98
1:B:216:A:H5"	1:B:218:A:H1'	1.00	0.98
1:B:527:C:H2'	1:B:1189:A:N6	1.77	0.98
1:B:565:C:H6	1:B:836:G:H8	1.03	0.98
1:B:805:G:H2'	1:B:806:C:C5'	1.93	0.98
1:B:1342:A:H2'	1:B:1343:G:H5'	1.46	0.98
1:B:1457:U:C2'	1:B:1458:U:H5'	1.94	0.98
1:B:1579:A:H2	1:B:1580:A:C5'	1.77	0.98
1:B:1674:G:C2'	1:B:1679:A:C3'	2.41	0.98
1:B:1791:A:C3'	1:B:1942:C:H6	1.76	0.98
1:B:2107:G:H3'	1:B:2112:G:OP2	1.61	0.98
1:B:2169:A:H2'	1:B:2170:A:H5"	1.42	0.98
1:B:2762:C:H4'	1:B:2765:A:H61	1.28	0.98
1:B:802:A:C3'	1:B:1254:A:C5'	2.41	0.98
1:B:861:A:N6	1:B:912:C:C5	2.31	0.98
1:B:1302:A:O3'	1:B:1303:G:OP2	1.80	0.98
1:B:1320:C:OP1	1:B:1322:A:H2'	1.62	0.98
1:B:1416:G:H3'	1:B:1637:A:C5'	1.91	0.98
1:B:2454:G:C5'	1:B:2454:G:H4'	1.91	0.98
1:B:2686:G:H3'	1:B:2722:G:N2	1.78	0.98
1:B:190:A:N6	1:B:216:A:N3	2.11	0.98
1:B:370:G:H1	1:B:372:G:H21	0.98	0.98
1:B:757:G:H1'	1:B:1951:U:H5'	1.44	0.98
1:B:927:A:P	1:B:928:A:OP1	2.22	0.98
1:B:1402:U:O3'	1:B:1403:A:OP1	1.79	0.98
1:B:1480:C:C2'	1:B:1481:U:H5"	1.90	0.98
1:B:1936:A:C5'	1:B:1939:5MU:P	2.51	0.98
1:B:2060:A:H3'	1:B:2447:G:P	2.04	0.98
1:B:2344:U:O3'	1:B:2345:G:P	2.22	0.98
1:B:2849:U:C5'	1:B:2850:A:C5'	2.41	0.98
1:B:334:C:O3'	1:B:335:C:OP2	1.79	0.98
1:B:363:G:OP1	1:B:429:A:P	2.21	0.98
1:B:574:A:N7	1:B:2042:A:P	2.37	0.98
1:B:895:U:O3'	1:B:896:A:H3'	1.64	0.98
1:B:1282:U:H2'	1:B:1285:A:N6	1.78	0.98
1:B:1818:U:H5'	1:B:1820:U:OP1	1.64	0.98
1:B:1931:U:C5'	1:B:1935:G:OP1	2.12	0.98
1:B:2379:G:H1'	1:B:2393:U:C1'	1.94	0.98
1:B:52:A:N7	1:B:118:A:C5'	2.27	0.98
1:B:98:G:C5'	1:B:103:A:N3	2.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:U:N3	1:B:113:U:C4’	2.26	0.98
1:B:215:G:C8	1:B:216:A:H3’	1.97	0.98
1:B:229:C:C2’	1:B:433:C:OP2	2.12	0.98
1:B:451:U:N1	1:B:460:A:C5’	2.26	0.98
1:B:802:A:C3’	1:B:1254:A:O5’	2.12	0.98
1:B:803:U:C6	1:B:1254:A:C3’	2.45	0.98
1:B:1552:A:C2	1:B:1555:G:C5’	2.47	0.98
1:B:1972:G:OP2	1:B:2443:C:H5	1.45	0.98
1:B:2167:U:H6	1:B:2169:A:H5’	1.24	0.98
1:B:73:A:C5’	1:B:113:U:N1	2.27	0.97
1:B:73:A:C5’	1:B:113:U:H1’	1.92	0.97
1:B:227:A:C2	1:B:432:A:H1’	1.98	0.97
1:B:318:C:C3’	1:B:319:G:OP1	2.12	0.97
1:B:330:A:N3	1:B:334:C:C2’	2.27	0.97
1:B:1428:C:H1’	1:B:1630:A:O2’	1.62	0.97
1:B:1815:A:H2’	1:B:1817:G:H21	1.29	0.97
1:B:1846:G:H4’	1:B:1847:A:OP2	1.62	0.97
1:B:1938:A:H5’	1:B:1941:C:N4	1.79	0.97
1:B:2376:A:H2’	1:B:2394:C:OP1	1.63	0.97
1:B:2379:G:H1’	1:B:2393:U:O2’	1.64	0.97
1:B:2433:A:H5’	1:B:2434:A:C8	1.99	0.97
1:B:2551:C:H5”	1:B:2552:U:OP2	1.64	0.97
1:B:195:A:C2’	1:B:196:A:C8	2.46	0.97
1:B:215:G:H8	1:B:216:A:C3’	1.77	0.97
1:B:293:U:H4’	1:B:294:A:OP2	1.63	0.97
1:B:510:C:H5”	1:B:511:U:C6	1.98	0.97
1:B:1944:U:C2’	1:B:1945:G:H5”	1.91	0.97
1:B:2682:A:H5”	1:B:2683:C:C5	1.98	0.97
1:B:59:U:O2	1:B:64:A:C2	2.16	0.97
1:B:839:U:H5”	1:B:961:C:C4	2.00	0.97
1:B:844:A:H4’	1:B:847:U:H5	1.30	0.97
1:B:1019:U:O2	1:B:1028:A:C5’	2.13	0.97
1:B:1041:G:N2	1:B:1115:G:H8	1.58	0.97
1:B:1790:C:C5’	1:B:2443:C:H5”	1.82	0.97
1:B:71:A:C5’	1:B:105:C:OP1	2.12	0.97
1:B:99:U:O5’	1:B:102:U:C1’	2.11	0.97
1:B:294:A:C5’	1:B:295:G:OP1	2.13	0.97
1:B:635:C:OP2	1:B:637:A:H8	1.47	0.97
1:B:802:A:H61	1:B:1199:U:H1’	1.29	0.97
1:B:926:G:C5’	1:B:927:A:C5’	2.40	0.97
1:B:1680:U:H2’	1:B:1681:G:O5’	1.62	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2233:U:H2'	1:B:2234:G:C8	1.97	0.97
1:B:2607:G:H8	1:B:2608:G:OP1	1.47	0.97
1:B:71:A:C5'	1:B:105:C:H5"	1.95	0.97
1:B:188:G:H2'	1:B:191:A:H5'	1.44	0.97
1:B:233:A:H3'	1:B:234:U:H5'	1.47	0.97
1:B:961:C:C5'	1:B:962:G:C8	2.45	0.97
1:B:1006:C:H4'	1:B:1007:C:H5'	1.47	0.97
1:B:1026:G:C2'	1:B:1027:A:O4'	2.12	0.97
1:B:1438:U:O3'	1:B:1440:U:C5	2.17	0.97
1:B:1569:A:N6	1:B:1571:A:H5"	1.79	0.97
1:B:1756:G:H1'	1:B:1757:A:C8	2.00	0.97
1:B:1856:U:C4	1:B:1885:A:C5'	2.47	0.97
1:B:2344:U:O2'	1:B:2345:G:C5'	2.11	0.97
1:B:2376:A:H2	1:B:2393:U:H2'	0.83	0.97
1:B:2433:A:H4'	1:B:2434:A:H8	1.16	0.97
1:B:74:A:OP1	1:B:113:U:H3'	1.64	0.97
1:B:256:A:H8	1:B:256:A:OP2	1.46	0.97
1:B:330:A:O4'	1:B:334:C:H1'	1.64	0.97
1:B:411:G:H4'	1:B:2406:A:H3'	1.47	0.97
1:B:901:C:C5'	1:B:902:C:C6	2.36	0.97
1:B:1242:U:H4'	1:B:1243:C:H6	1.25	0.97
1:B:1469:A:H3'	1:B:1528:A:N6	1.78	0.97
1:B:1826:G:C5'	1:B:1966:A:O2'	2.12	0.97
1:B:1888:G:C5'	1:B:1888:G:C3'	2.41	0.97
1:B:2726:A:H4'	1:B:2727:A:H5'	1.01	0.97
1:B:285:G:H5"	1:B:401:A:H5"	1.41	0.97
1:B:500:G:H8	1:B:501:A:O2'	1.46	0.97
1:B:764:A:H4'	1:B:765:C:C5'	1.93	0.97
1:B:978:G:H3'	1:B:979:A:H5'	1.45	0.97
1:B:1128:G:H5"	1:B:2751:G:O2'	1.64	0.97
1:B:1672:A:N3	1:B:1674:G:P	2.38	0.97
1:B:1828:G:C4'	1:B:1829:A:OP1	2.13	0.97
1:B:1944:U:C2'	1:B:1945:G:C4'	1.96	0.97
1:B:2111:U:C1'	1:B:2112:G:O3'	2.12	0.97
1:B:110:G:C2'	1:B:111:A:P	2.52	0.97
1:B:240:C:OP2	1:B:275:C:C2'	2.13	0.97
1:B:565:C:H6	1:B:836:G:C8	1.82	0.97
1:B:686:U:C5'	1:B:687:C:C6	2.47	0.97
1:B:1301:A:H5"	1:B:1625:C:O2	1.65	0.97
1:B:1569:A:H62	1:B:1571:A:H5"	1.25	0.97
1:B:240:C:O5'	1:B:275:C:C3'	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:460:A:N7	1:B:593:U:OP1	1.98	0.97
1:B:526:A:H2	1:B:527:C:H5'	1.26	0.97
1:B:857:G:OP1	1:B:858:G:C1'	2.12	0.97
1:B:1023:U:C3'	1:B:2466:C:H41	1.77	0.97
1:B:1672:A:C4	1:B:1673:G:C2'	2.48	0.97
1:B:2319:G:H8	1:B:2322:A:C6	1.82	0.97
1:B:2320:U:O2'	1:B:2321:U:H5'	1.65	0.97
1:B:2571:U:C5'	1:B:2647:U:C4'	2.43	0.97
1:B:2575:C:H4'	1:B:2576:G:C5'	1.93	0.97
1:B:64:A:N3	1:B:68:G:N2	2.13	0.97
1:B:199:A:OP2	1:B:200:U:H5	1.46	0.97
1:B:229:C:H2'	1:B:433:C:OP2	1.63	0.97
1:B:266:G:N2	1:B:269:C:H41	1.63	0.97
1:B:318:C:H5"	1:B:319:G:H8	1.26	0.97
1:B:570:G:N2	1:B:2044:C:OP2	1.96	0.97
1:B:598:U:C4'	1:B:937:C:C4'	1.76	0.97
1:B:1117:C:P	1:B:2750:A:C3'	2.53	0.97
1:B:1234:U:P	1:B:1235:G:H5'	2.05	0.97
1:B:1341:G:H5"	1:B:1400:U:H5"	1.46	0.97
1:B:1425:G:O2'	1:B:1567:G:C5'	2.12	0.97
1:B:1695:G:H8	1:B:2704:C:C2'	1.78	0.97
1:B:1934:C:C4'	1:B:1934:C:O3'	2.12	0.97
1:B:2226:C:O2'	1:B:2227:A:H5'	1.62	0.97
1:B:2366:A:C5'	1:B:2367:G:H5'	1.93	0.97
1:B:25:U:OP1	1:B:485:C:O2'	1.83	0.96
1:B:93:G:H2'	1:B:498:G:H5"	1.43	0.96
1:B:866:A:O2'	1:B:915:C:H1'	1.63	0.96
1:B:1117:C:OP2	1:B:2751:G:C8	2.18	0.96
1:B:1672:A:N3	1:B:1673:G:O3'	1.96	0.96
1:B:1848:A:C8	1:B:1852:U:O2'	2.18	0.96
1:B:2497:A:O3'	1:B:2657:A:H2	1.47	0.96
1:B:2766:A:O2'	1:B:2767:C:H5'	1.63	0.96
1:B:2846:G:C5'	1:B:2848:G:N3	2.27	0.96
1:B:32:C:C5	1:B:33:C:C5	2.52	0.96
1:B:76:C:O5'	1:B:120:U:OP2	1.80	0.96
1:B:262:A:OP1	1:B:429:A:O2'	1.83	0.96
1:B:374:A:H5"	1:B:375:G:O3'	1.65	0.96
1:B:568:U:C1'	1:B:833:A:C5'	2.33	0.96
1:B:744:U:O2	1:B:748:G:C5'	2.12	0.96
1:B:845:A:C2'	1:B:931:U:H3	1.77	0.96
1:B:867:C:O2'	1:B:915:C:C6	2.16	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1023:U:H2'	1:B:2466:C:N4	1.78	0.96
1:B:1265:A:H2	1:B:1616:A:H1'	1.22	0.96
1:B:1425:G:H4'	1:B:1567:G:P	2.06	0.96
1:B:1671:U:C4	1:B:1672:A:H5"	1.99	0.96
1:B:1929:G:OP2	1:B:1932:A:H5'	1.65	0.96
1:B:2504:U:O4	1:B:2579:C:H3'	1.64	0.96
1:B:2719:G:C5'	1:B:2720:U:C6	2.48	0.96
1:B:2851:A:P	1:B:2871:U:C5	2.58	0.96
1:B:10:A:H2'	1:B:11:C:H5"	0.97	0.96
1:B:15:G:H3'	1:B:16:C:C6	1.99	0.96
1:B:317:G:H5'	1:B:321:U:C5	2.00	0.96
1:B:1131:G:H5'	1:B:1132:U:H5"	1.45	0.96
1:B:1610:A:O2'	1:B:1610:A:N3	1.97	0.96
1:B:1803:A:H3'	1:B:1804:C:C5'	1.95	0.96
1:B:2741:A:C1'	1:B:2742:G:O4'	2.13	0.96
1:B:221:A:C8	1:B:223:A:C8	2.53	0.96
1:B:792:A:C2	1:B:793:A:C5'	2.49	0.96
1:B:797:G:OP1	1:B:1253:A:H2'	1.65	0.96
1:B:1626:A:H4'	1:B:1627:G:H5'	0.98	0.96
1:B:1789:A:O2'	1:B:1790:C:P	2.23	0.96
1:B:2070:A:C3'	1:B:2071:A:P	2.53	0.96
1:B:344:A:C8	1:B:347:A:H5"	2.01	0.96
1:B:483:A:H2'	1:B:484:C:H4'	1.41	0.96
1:B:536:G:C2'	1:B:537:G:H5"	1.94	0.96
1:B:802:A:O3'	1:B:802:A:H3'	1.61	0.96
1:B:1025:G:C5'	1:B:2469:A:C2	2.47	0.96
1:B:1598:A:C2'	1:B:1599:U:OP1	2.11	0.96
1:B:1696:G:O3'	1:B:2703:C:H6	1.48	0.96
1:B:1854:A:C8	1:B:1858:A:H5"	2.01	0.96
1:B:2602:A:C6	1:B:2603:G:O6	2.17	0.96
1:B:2741:A:C2'	1:B:2742:G:C5'	2.38	0.96
1:B:189:G:C5'	1:B:191:A:OP2	2.12	0.96
1:B:423:A:O3'	1:B:424:G:P	2.24	0.96
1:B:452:G:H4'	1:B:478:A:H2'	1.44	0.96
1:B:845:A:C3'	1:B:931:U:H3	1.79	0.96
1:B:857:G:C2'	1:B:912:C:C2	2.48	0.96
1:B:871:U:C2'	1:B:872:U:H5	1.79	0.96
1:B:1046:A:H5'	1:B:1051:G:C8	2.00	0.96
1:B:1131:G:C8	1:B:1132:U:C3'	2.48	0.96
1:B:1348:C:O2'	1:B:1349:C:O5'	1.82	0.96
1:B:1972:G:OP2	1:B:2443:C:C5	2.18	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2444:G:O2'	1:B:2555:U:C5	2.19	0.96
1:B:670:A:O3'	1:B:671:C:P	2.24	0.96
1:B:1471:G:N2	1:B:1522:A:C8	2.33	0.96
1:B:1523:U:O4'	1:B:1528:A:C8	2.17	0.96
1:B:1751:U:C5'	1:B:1752:C:O5'	2.12	0.96
1:B:28:A:C8	1:B:673:C:H2'	2.01	0.96
1:B:71:A:C5'	1:B:71:A:H4'	1.96	0.96
1:B:93:G:N7	1:B:499:U:OP1	1.98	0.96
1:B:450:G:N7	1:B:592:A:H2	1.62	0.96
1:B:804:A:O5'	1:B:1254:A:N1	1.98	0.96
1:B:913:U:O2	1:B:919:U:C4	2.19	0.96
1:B:916:G:O5'	1:B:917:A:H4'	1.66	0.96
1:B:1019:U:H1'	1:B:1028:A:C5'	1.94	0.96
1:B:1242:U:C5'	1:B:1243:C:O4'	2.13	0.96
1:B:1359:A:H62	1:B:1371:G:C5'	1.79	0.96
1:B:1933:G:C3'	1:B:1941:C:C6	2.48	0.96
1:B:1944:U:C3'	1:B:1945:G:C5'	2.33	0.96
1:B:1971:U:H5	1:B:2554:U:C5'	1.78	0.96
1:B:2013:A:H5'	1:B:2014:A:C8	2.01	0.96
1:B:2167:U:C6	1:B:2169:A:H5'	2.01	0.96
1:B:92:U:C2'	1:B:498:G:C2'	2.44	0.96
1:B:449:A:C4'	1:B:452:G:H1'	1.93	0.96
1:B:451:U:C1'	1:B:460:A:H5"	1.96	0.96
1:B:858:G:O6	1:B:913:U:O2	1.83	0.96
1:B:1023:U:C6	1:B:2481:G:H1'	2.00	0.96
1:B:1568:G:H8	1:B:1569:A:H5'	1.29	0.96
1:B:1579:A:C2	1:B:1580:A:H5"	2.00	0.96
1:B:2685:G:C5'	1:B:2685:G:H4'	1.91	0.96
1:B:2762:C:H4'	1:B:2765:A:N6	1.78	0.96
1:B:2766:A:C2'	1:B:2767:C:C5'	2.24	0.96
1:B:2873:A:H3'	1:B:2874:C:C5'	1.95	0.96
1:B:73:A:C4'	1:B:113:U:C6	2.49	0.96
1:B:75:G:C2'	1:B:119:A:O5'	2.13	0.96
1:B:179:C:O3'	1:B:197:A:H5'	1.66	0.96
1:B:240:C:H5"	1:B:276:U:P	2.05	0.96
1:B:588:U:O2'	1:B:589:U:C5	2.18	0.96
1:B:914:G:C2	1:B:916:G:H2'	2.01	0.96
1:B:1302:A:C2	1:B:1607:C:H5"	2.00	0.96
1:B:1376:C:O3'	1:B:1379:U:C5	2.19	0.96
1:B:1871:A:C2	1:B:1872:A:H1'	2.01	0.96
1:B:1943:U:H5	1:B:2071:A:H5"	1.24	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2108:A:OP1	1:B:2110:G:C3'	2.14	0.96
1:B:2113:U:C5	1:B:2120:G:C8	2.53	0.96
1:B:144:A:OP2	1:B:1328:A:N3	1.96	0.95
1:B:270:A:H2'	1:B:271:G:H5'	0.96	0.95
1:B:342:A:H4'	1:B:345:A:C8	2.01	0.95
1:B:472:A:H2'	1:B:473:G:O4'	1.66	0.95
1:B:675:A:H4'	1:B:1250:G:OP2	1.64	0.95
1:B:1130:U:O2'	1:B:2752:C:C5'	2.13	0.95
1:B:1928:A:H5'	1:B:1937:A:O5'	1.64	0.95
1:B:2374:C:H3'	1:B:2375:G:OP2	1.64	0.95
1:B:27:G:N2	1:B:1248:G:H3'	1.81	0.95
1:B:71:A:C3'	1:B:105:C:OP1	2.14	0.95
1:B:137:U:H2'	1:B:1325:U:H5"	1.45	0.95
1:B:457:A:N3	1:B:458:G:H2'	1.80	0.95
1:B:1427:A:O2'	1:B:1430:C:C4'	2.13	0.95
1:B:1457:U:H2'	1:B:1458:U:H5'	0.99	0.95
1:B:1468:U:O4	1:B:1526:C:C2'	2.13	0.95
1:B:1670:C:O2	1:B:1753:G:C8	2.19	0.95
1:B:1675:C:OP1	1:B:1678:A:H5"	1.66	0.95
1:B:1936:A:H5"	1:B:1941:C:H41	1.29	0.95
1:B:2835:A:H5'	1:B:2836:U:C6	2.01	0.95
1:B:52:A:OP1	1:B:176:A:C2	2.18	0.95
1:B:142:A:H4'	1:B:1330:C:H1'	1.47	0.95
1:B:211:C:H1'	1:B:213:A:C2	2.01	0.95
1:B:320:A:O3'	1:B:324:A:C2'	2.14	0.95
1:B:449:A:H5'	1:B:452:G:C4	2.01	0.95
1:B:489:G:H8	1:B:490:C:C5	1.84	0.95
1:B:568:U:O2	1:B:833:A:H5'	1.66	0.95
1:B:668:A:C5'	1:B:669:G:H5"	1.95	0.95
1:B:867:C:O2'	1:B:915:C:H6	1.46	0.95
1:B:867:C:C2'	1:B:915:C:OP1	2.12	0.95
1:B:1285:A:C2'	1:B:2011:U:H4'	1.96	0.95
1:B:1308:A:C8	1:B:1309:G:N7	2.34	0.95
1:B:1674:G:C1'	1:B:1680:U:O5'	2.14	0.95
1:B:1934:C:H4'	1:B:1934:C:H5"	1.45	0.95
1:B:2753:A:H5'	1:B:2754:U:H5"	1.48	0.95
1:B:127:A:C5'	1:B:128:C:C5	2.48	0.95
1:B:862:G:H2'	1:B:863:A:H4'	1.48	0.95
1:B:917:A:OP1	1:B:918:A:C5'	2.13	0.95
1:B:920:A:H2'	1:B:921:C:H5'	1.45	0.95
1:B:1117:C:OP1	1:B:2751:G:O5'	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1281:G:C3'	1:B:1282:U:H5'	1.96	0.95
1:B:1427:A:C2'	1:B:1430:C:C5'	2.43	0.95
1:B:1480:C:H2'	1:B:1481:U:C4'	1.96	0.95
1:B:1553:A:C2'	1:B:1554:U:H5"	1.96	0.95
1:B:1672:A:N6	1:B:1673:G:N2	2.14	0.95
1:B:1971:U:H1'	1:B:1973:G:OP1	1.65	0.95
1:B:78:U:OP2	1:B:99:U:O4'	1.84	0.95
1:B:143:C:OP1	1:B:1328:A:H3'	1.65	0.95
1:B:217:A:C3'	1:B:218:A:C5'	2.43	0.95
1:B:432:A:C3'	1:B:433:C:H5"	1.95	0.95
1:B:1451:C:H1'	1:B:1457:U:O4	1.67	0.95
1:B:1491:G:O6	1:B:1496:A:H2	1.50	0.95
1:B:1672:A:C1'	1:B:1673:G:O3'	2.14	0.95
1:B:1906:G:P	1:B:1928:A:OP1	2.24	0.95
1:B:2061:G:H4'	1:B:2554:U:O2	1.67	0.95
1:B:2851:A:P	1:B:2871:U:H5	1.89	0.95
1:B:82:U:O2'	1:B:84:A:N9	2.00	0.95
1:B:199:A:H2'	1:B:200:U:H5'	1.47	0.95
1:B:226:A:H1'	1:B:356:G:OP2	1.66	0.95
1:B:332:A:C5'	1:B:333:G:N7	2.30	0.95
1:B:461:C:N4	1:B:479:A:N6	2.13	0.95
1:B:1992:G:H4'	1:B:1993:U:C5'	1.97	0.95
1:B:2058:A:N1	1:B:2069:7MG:HM73	1.79	0.95
1:B:2643:G:H2'	1:B:2645:G:OP2	1.65	0.95
1:B:2756:U:H2'	1:B:2757:A:O4'	1.66	0.95
1:B:2879:A:H5"	1:B:2880:C:H5	0.80	0.95
1:B:16:C:OP1	1:B:1198:U:H1'	1.67	0.95
1:B:217:A:O5'	1:B:218:A:H4'	1.67	0.95
1:B:231:A:H5"	1:B:232:G:H4'	1.48	0.95
1:B:449:A:H5"	1:B:478:A:O5'	1.66	0.95
1:B:859:G:C2	1:B:912:C:N4	2.34	0.95
1:B:1117:C:C5'	1:B:2751:G:O5'	2.14	0.95
1:B:1289:C:C6	1:B:1648:U:C4'	2.49	0.95
1:B:1883:U:H4'	1:B:1884:G:C4'	1.97	0.95
1:B:1905:C:H4'	1:B:1927:A:C5'	1.96	0.95
1:B:1905:C:C5'	1:B:1927:A:C4'	2.36	0.95
1:B:1996:C:C3'	1:B:1997:C:OP1	2.14	0.95
1:B:2052:A:H5'	1:B:2608:G:H5"	1.23	0.95
1:B:2629:U:H4'	1:B:2630:G:C5'	1.95	0.95
1:B:2719:G:O5'	1:B:2720:U:C6	2.20	0.95
1:B:66:C:O3'	1:B:67:U:P	2.24	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:A:H5”	1:B:196:A:OP2	1.65	0.95
1:B:845:A:N7	1:B:849:A:N6	2.14	0.95
1:B:866:A:N3	1:B:915:C:C2’	2.28	0.95
1:B:1131:G:C8	1:B:1132:U:O3’	2.19	0.95
1:B:1290:C:OP1	1:B:1646:C:H5’	1.63	0.95
1:B:2103:C:H5”	1:B:2104:C:P	2.06	0.95
1:B:2492:U:H2’	1:B:2493:U:C5’	1.97	0.95
1:B:2682:A:N3	1:B:2720:U:H2’	1.81	0.95
1:B:2806:C:C2’	1:B:2807:U:H4’	1.96	0.95
1:B:2859:G:H2’	1:B:2860:A:C5’	1.96	0.95
1:B:329:G:N2	1:B:330:A:H62	1.65	0.95
1:B:421:C:H5”	1:B:422:A:OP2	1.67	0.95
1:B:668:A:C5’	1:B:669:G:C5’	2.44	0.95
1:B:675:A:O3’	1:B:1250:G:C8	2.20	0.95
1:B:943:A:H2’	1:B:944:C:H5”	1.47	0.95
1:B:1032:A:C8	1:B:1127:A:C1’	2.50	0.95
1:B:1344:U:H5”	1:B:1345:C:O4’	1.66	0.95
1:B:1476:U:H5”	1:B:1516:G:O5’	1.67	0.95
1:B:1480:C:O3’	1:B:1481:U:P	2.24	0.95
1:B:1752:C:H6	1:B:1987:A:HO2’	0.97	0.95
1:B:1837:C:H2’	1:B:1838:C:H3’	1.49	0.95
1:B:2081:U:C4	1:B:2082:A:H1’	2.02	0.95
1:B:2685:G:H2’	1:B:2722:G:H21	1.31	0.95
1:B:12:U:OP1	1:B:1195:G:N3	2.00	0.95
1:B:110:G:H2’	1:B:111:A:OP2	1.65	0.95
1:B:450:G:O2’	1:B:451:U:H5’	1.67	0.95
1:B:981:A:H2’	1:B:982:C:C5’	1.96	0.95
1:B:1116:G:O3’	1:B:2750:A:C2’	2.15	0.95
1:B:1459:G:O2’	1:B:1460:U:C5’	2.15	0.95
1:B:1520:U:H1’	1:B:1521:G:C8	2.02	0.95
1:B:1856:U:HO3’	1:B:1857:G:P	1.89	0.95
1:B:1905:C:C5’	1:B:1927:A:O2’	2.14	0.95
1:B:2092:U:H3’	1:B:2093:G:P	2.07	0.95
1:B:2179:C:N4	1:B:2181:U:H5’	1.81	0.95
1:B:98:G:O3’	1:B:98:G:H3’	1.67	0.94
1:B:257:C:H2’	1:B:258:G:H5’	0.97	0.94
1:B:757:G:N2	1:B:1951:U:P	2.40	0.94
1:B:840:C:C5’	1:B:962:G:O2’	2.14	0.94
1:B:916:G:H4’	1:B:917:A:H5’	1.40	0.94
1:B:1202:G:C2’	1:B:1203:U:C6	2.50	0.94
1:B:1750:G:H5”	1:B:1753:G:OP2	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2108:A:H5”	1:B:2110:G:C2’	1.96	0.94
1:B:2114:A:H8	1:B:2118:U:H3	1.11	0.94
1:B:323:C:C2’	1:B:324:A:P	2.54	0.94
1:B:457:A:N3	1:B:458:G:C2’	2.31	0.94
1:B:529:A:O3’	1:B:948:C:H4’	1.67	0.94
1:B:572:A:C5’	1:B:2620:C:OP2	2.14	0.94
1:B:673:C:C2	1:B:1251:C:H1’	2.00	0.94
1:B:845:A:OP2	1:B:846:U:H1’	1.68	0.94
1:B:1675:C:O3’	1:B:1678:A:C5’	2.15	0.94
1:B:2042:A:H5’	1:B:2043:C:O4’	1.68	0.94
1:B:2067:G:C5’	1:B:2439:A:P	2.54	0.94
1:B:11:C:O3’	1:B:1195:G:H2’	1.66	0.94
1:B:262:A:H5”	1:B:429:A:C4’	1.71	0.94
1:B:265:A:N9	1:B:369:U:H1’	1.81	0.94
1:B:507:A:C5	1:B:518:G:C4’	2.51	0.94
1:B:859:G:C4’	1:B:860:U:H5	1.78	0.94
1:B:859:G:N3	1:B:912:C:N4	2.14	0.94
1:B:1302:A:HO3’	1:B:1303:G:H8	1.09	0.94
1:B:1449:G:H5”	1:B:1587:G:H5’	1.48	0.94
1:B:2052:A:H5’	1:B:2608:G:H5’	1.48	0.94
1:B:2062:A:C5’	1:B:2063:C:H41	1.79	0.94
1:B:2265:U:C2	1:B:2267:A:H5”	2.02	0.94
1:B:2335:A:H2’	1:B:2336:A:C4’	1.96	0.94
1:B:2344:U:O2’	1:B:2345:G:O5’	1.85	0.94
1:B:75:G:C3’	1:B:75:G:O3’	2.14	0.94
1:B:161:A:H2’	1:B:162:U:C6	2.03	0.94
1:B:240:C:C3’	1:B:275:C:C5’	2.44	0.94
1:B:397:U:H2’	1:B:398:C:H6	1.31	0.94
1:B:576:U:H3’	1:B:2019:A:H5’	1.46	0.94
1:B:896:A:H4’	1:B:897:C:H5’	1.49	0.94
1:B:1302:A:O3’	1:B:1303:G:P	2.24	0.94
1:B:1856:U:H4’	1:B:1886:U:H1’	1.49	0.94
1:B:1928:A:H1’	1:B:1936:A:H5’	1.49	0.94
1:B:1939:5MU:C6	1:B:1940:U:OP1	2.20	0.94
1:B:64:A:O2’	1:B:65:U:C5	2.19	0.94
1:B:220:G:H2’	1:B:277:G:C5’	1.97	0.94
1:B:223:A:H8	1:B:279:A:H5”	0.78	0.94
1:B:267:C:H1’	1:B:269:C:H6	1.31	0.94
1:B:311:A:H8	1:B:483:A:H61	1.12	0.94
1:B:488:G:C2’	1:B:510:C:H41	1.78	0.94
1:B:1672:A:C4	1:B:1673:G:C3’	2.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1933:G:O2'	1:B:1935:G:N3	2.00	0.94
1:B:2393:U:H3'	1:B:2395:C:O3'	1.68	0.94
1:B:2741:A:H1'	1:B:2742:G:O4'	1.67	0.94
1:B:329:G:C2'	1:B:335:C:H41	1.81	0.94
1:B:489:G:H1'	1:B:510:C:H2'	1.48	0.94
1:B:837:C:H5'	1:B:975:A:C3'	1.96	0.94
1:B:1552:A:N1	1:B:1555:G:C5'	2.29	0.94
1:B:1569:A:N6	1:B:1571:A:C5'	2.31	0.94
1:B:1778:U:HO2'	1:B:2556:C:H1'	1.32	0.94
1:B:1791:A:H1'	1:B:1934:C:C3'	1.96	0.94
1:B:2320:U:C5'	1:B:2322:A:C5'	2.38	0.94
1:B:2575:C:H5'	1:B:2576:G:O3'	1.68	0.94
1:B:99:U:H4'	1:B:102:U:O2	1.65	0.94
1:B:143:C:H3'	1:B:1328:A:C2	2.02	0.94
1:B:423:A:O3'	1:B:424:G:C5'	2.07	0.94
1:B:588:U:O2'	1:B:589:U:H5	1.51	0.94
1:B:861:A:C3'	1:B:862:G:OP1	2.16	0.94
1:B:913:U:O2	1:B:919:U:N3	2.01	0.94
1:B:975:A:O3'	1:B:975:A:H3'	1.63	0.94
1:B:1189:A:O3'	1:B:1190:G:P	2.25	0.94
1:B:1281:G:OP1	1:B:2013:A:C2	2.19	0.94
1:B:1285:A:H1'	1:B:2012:G:OP1	1.68	0.94
1:B:2283:C:H3'	1:B:2388:A:H5"	1.50	0.94
1:B:2359:C:H4'	1:B:2360:G:O5'	1.68	0.94
1:B:2438:U:O2'	1:B:2439:A:C5'	2.16	0.94
1:B:2808:G:H2'	1:B:2809:A:C3'	1.96	0.94
1:B:73:A:C3'	1:B:113:U:C2'	2.44	0.94
1:B:101:A:H8	1:B:102:U:C6	1.86	0.94
1:B:120:U:O5'	1:B:120:U:P	2.25	0.94
1:B:137:U:C4	1:B:138:U:H1'	2.01	0.94
1:B:137:U:O2'	1:B:1325:U:C5'	2.16	0.94
1:B:507:A:N3	1:B:517:C:O2'	2.01	0.94
1:B:588:U:O3'	1:B:589:U:P	2.26	0.94
1:B:668:A:H5'	1:B:669:G:C5'	1.96	0.94
1:B:762:U:H5'	1:B:1950:G:H5"	1.47	0.94
1:B:1131:G:P	1:B:2752:C:C2'	2.56	0.94
1:B:1348:C:H1'	1:B:1349:C:C6	2.03	0.94
1:B:1568:G:H1'	1:B:1575:C:H41	1.12	0.94
1:B:1868:C:H5"	1:B:1869:G:OP2	1.68	0.94
1:B:1943:U:C4	1:B:2071:A:C5'	2.50	0.94
1:B:1996:C:O3'	1:B:1997:C:OP1	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:93:G:C5’	1:B:503:A:H3’	1.98	0.94
1:B:112:U:C3’	1:B:119:A:H1’	1.97	0.94
1:B:179:C:C2’	1:B:197:A:H5’	1.97	0.94
1:B:377:G:H1	1:B:397:U:H3	1.08	0.94
1:B:451:U:H1’	1:B:460:A:H5”	1.50	0.94
1:B:462:C:C4	1:B:464:U:H5”	2.02	0.94
1:B:803:U:H6	1:B:1255:U:P	1.91	0.94
1:B:839:U:O2’	1:B:962:G:C4’	2.15	0.94
1:B:914:G:C1’	1:B:917:A:OP2	2.14	0.94
1:B:1265:A:H2	1:B:1616:A:C1’	1.79	0.94
1:B:1299:G:C2	1:B:1643:G:H1’	2.03	0.94
1:B:1568:G:C8	1:B:1569:A:H5’	2.02	0.94
1:B:1870:C:H1’	1:B:2159:G:C8	2.01	0.94
1:B:2076:U:O3’	1:B:2077:A:OP2	1.85	0.94
1:B:2438:U:HO2’	1:B:2439:A:C5’	1.81	0.94
1:B:2645:G:C5’	1:B:2646:C:H5	1.68	0.94
1:B:2849:U:H5”	1:B:2872:A:C8	2.02	0.94
1:B:140:C:H2’	1:B:141:G:C1’	1.97	0.94
1:B:320:A:H2’	1:B:324:A:C2’	1.98	0.94
1:B:446:G:O2’	1:B:471:A:H5’	1.68	0.94
1:B:513:A:H8	1:B:514:A:H5’	1.30	0.94
1:B:783:A:H2’	1:B:784:G:H5’	1.48	0.94
1:B:861:A:C5’	1:B:862:G:OP1	2.15	0.94
1:B:867:C:C4’	1:B:868:U:H5	1.81	0.94
1:B:913:U:C2	1:B:919:U:N3	2.36	0.94
1:B:1275:A:P	1:B:1288:G:H5”	2.08	0.94
1:B:1417:C:C6	1:B:1466:U:C6	2.56	0.94
1:B:1427:A:C1’	1:B:1430:C:H4’	1.97	0.94
1:B:2686:G:H22	1:B:2729:G:H1’	1.33	0.94
1:B:124:G:C3’	1:B:125:A:H5’	1.98	0.93
1:B:203:A:C5’	1:B:204:A:H8	1.76	0.93
1:B:240:C:H4’	1:B:275:C:O5’	1.68	0.93
1:B:262:A:O2’	1:B:263:G:N2	1.99	0.93
1:B:762:U:H5’	1:B:1950:G:C5’	1.97	0.93
1:B:915:C:H5”	1:B:916:G:OP2	1.67	0.93
1:B:1131:G:H5”	1:B:2752:C:C2	2.01	0.93
1:B:1321:A:O2’	1:B:1322:A:C5’	2.16	0.93
1:B:1326:U:O4	1:B:1327:A:H5’	1.68	0.93
1:B:1335:C:OP1	1:B:1415:U:O3’	1.86	0.93
1:B:1464:G:O2’	1:B:1466:U:H4’	1.66	0.93
1:B:1631:G:O3’	1:B:1632:A:H8	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1778:U:O2'	1:B:2556:C:H1'	1.66	0.93
1:B:2113:U:P	1:B:2178:C:H41	1.91	0.93
1:B:2682:A:H2'	1:B:2720:U:C2'	1.97	0.93
1:B:2820:A:O2'	1:B:2821:A:C5'	2.16	0.93
1:B:15:G:P	1:B:1256:G:C8	2.61	0.93
1:B:188:G:C2'	1:B:191:A:H5'	1.98	0.93
1:B:365:U:C5'	1:B:368:A:C8	2.50	0.93
1:B:452:G:H3'	1:B:479:A:OP1	1.67	0.93
1:B:507:A:C6	1:B:1246:A:N7	2.36	0.93
1:B:518:G:OP1	1:B:1247:A:N6	2.01	0.93
1:B:598:U:H4'	1:B:937:C:C5'	1.91	0.93
1:B:1417:C:O4'	1:B:1466:U:H5"	1.68	0.93
1:B:1428:C:C1'	1:B:1630:A:O2'	2.14	0.93
1:B:1813:G:O6	1:B:1814:G:C8	2.21	0.93
1:B:1943:U:C6	1:B:2071:A:C4'	2.52	0.93
1:B:2275:C:H5"	1:B:2426:A:O2'	1.69	0.93
1:B:2379:G:O2'	1:B:2393:U:C1'	2.15	0.93
1:B:2379:G:C1'	1:B:2393:U:H1'	1.97	0.93
1:B:2498:5MC:C1'	1:B:2498:5MC:C2	2.51	0.93
1:B:2738:A:H1'	1:B:2741:A:C2	2.03	0.93
1:B:2780:G:H5"	1:B:2781:A:H8	1.12	0.93
1:B:2820:A:O2'	1:B:2821:A:H4'	1.68	0.93
1:B:2849:U:H5	1:B:2871:U:OP2	1.51	0.93
1:B:802:A:H1'	1:B:1252:G:N2	1.83	0.93
1:B:861:A:H5"	1:B:862:G:C8	1.99	0.93
1:B:1032:A:H8	1:B:1127:A:HO2'	0.96	0.93
1:B:1155:A:O2'	1:B:1156:A:C8	2.03	0.93
1:B:1582:C:H1'	1:B:1633:G:O3'	1.68	0.93
1:B:1610:A:C4'	1:B:1611:C:H5	1.79	0.93
1:B:2111:U:C1'	1:B:2112:G:C4'	2.45	0.93
1:B:2871:U:C5'	1:B:2872:A:N3	2.28	0.93
1:B:50:U:O2'	1:B:151:C:C5'	2.15	0.93
1:B:383:C:H2'	1:B:391:A:H61	1.32	0.93
1:B:1134:A:H2'	1:B:1140:C:HO2'	1.21	0.93
1:B:1582:C:H6	1:B:1633:G:OP2	1.51	0.93
1:B:1933:G:C3'	1:B:1941:C:C5	2.52	0.93
1:B:1943:U:C5	1:B:1944:U:OP2	2.21	0.93
1:B:2104:C:H4'	1:B:2105:U:H5	1.03	0.93
1:B:2117:A:C2'	1:B:2172:U:C4	2.50	0.93
1:B:2374:C:H2'	1:B:2376:A:H5'	1.47	0.93
1:B:75:G:C3'	1:B:119:A:C5'	2.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:198:C:H2'	1:B:199:A:N7	1.83	0.93
1:B:227:A:H5'	1:B:228:C:OP2	1.67	0.93
1:B:329:G:H1'	1:B:335:C:H41	1.33	0.93
1:B:819:A:H2'	1:B:820:A:O4'	1.68	0.93
1:B:978:G:C3'	1:B:979:A:H5'	1.97	0.93
1:B:1010:A:H5"	1:B:1011:G:N7	1.83	0.93
1:B:1024:G:C3'	1:B:2467:C:H4'	1.98	0.93
1:B:1116:G:H3'	1:B:2750:A:C2'	1.99	0.93
1:B:1163:G:H2'	1:B:1164:C:C5	2.04	0.93
1:B:1418:G:C8	1:B:1632:A:N6	2.36	0.93
1:B:2835:A:H5'	1:B:2836:U:C5	2.02	0.93
1:B:2849:U:H3'	1:B:2872:A:H8	1.30	0.93
1:B:11:C:H2'	1:B:1195:G:C3'	1.97	0.93
1:B:60:G:O3'	1:B:61:C:C5'	2.17	0.93
1:B:206:U:H3'	1:B:208:C:OP1	1.69	0.93
1:B:320:A:H4'	1:B:324:A:C2	2.04	0.93
1:B:859:G:O2'	1:B:860:U:OP2	1.87	0.93
1:B:1289:C:O4'	1:B:1648:U:C4'	2.17	0.93
1:B:1427:A:H2'	1:B:1430:C:C5'	1.97	0.93
1:B:1905:C:OP1	1:B:1928:A:OP2	1.87	0.93
1:B:1932:A:P	1:B:1935:G:C5'	2.55	0.93
1:B:1942:C:H5"	1:B:2441:U:C2'	1.98	0.93
1:B:2062:A:O3'	1:B:2062:A:H3'	1.65	0.93
1:B:2306:C:C2'	1:B:2307:G:H5'	1.97	0.93
1:B:2645:G:H4'	1:B:2646:C:H5	1.32	0.93
1:B:320:A:C2'	1:B:324:A:O3'	2.17	0.93
1:B:429:A:C3'	1:B:429:A:O3'	2.16	0.93
1:B:488:G:HO2'	1:B:510:C:H5	1.03	0.93
1:B:577:G:P	1:B:2019:A:H5"	2.09	0.93
1:B:803:U:C5	1:B:1254:A:C3'	2.52	0.93
1:B:837:C:P	1:B:975:A:H5"	2.08	0.93
1:B:917:A:OP1	1:B:918:A:H5"	1.69	0.93
1:B:1024:G:C4'	1:B:2467:C:H4'	1.98	0.93
1:B:1048:A:H5"	1:B:1103:A:P	2.09	0.93
1:B:1468:U:O4	1:B:1526:C:H2'	1.69	0.93
1:B:1584:U:H1'	1:B:1635:A:H5'	1.50	0.93
1:B:1608:A:HO3'	1:B:1609:A:P	1.88	0.93
1:B:1788:C:H1'	1:B:2555:U:H3'	0.95	0.93
1:B:2433:A:C4'	1:B:2434:A:C8	2.51	0.93
1:B:2575:C:C5'	1:B:2576:G:H5"	1.98	0.93
1:B:293:U:OP1	1:B:336:C:O2'	1.87	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:457:A:H8	1:B:657:U:H5”	1.13	0.93
1:B:1308:A:C8	1:B:1309:G:C8	2.56	0.93
1:B:1327:A:C5’	1:B:1327:A:H4’	1.98	0.93
1:B:1417:C:H1’	1:B:1466:U:H3’	1.44	0.93
1:B:1580:A:H1’	1:B:1632:A:C4’	1.98	0.93
1:B:1932:A:H4’	1:B:1941:C:C2	2.04	0.93
1:B:2133:G:N2	1:B:2156:G:N2	2.16	0.93
1:B:2401:U:OP1	1:B:2407:A:H5”	1.68	0.93
1:B:2439:A:H2’	1:B:2440:C:OP1	1.67	0.93
1:B:15:G:H1’	1:B:1256:G:C4’	1.99	0.93
1:B:385:C:H2’	1:B:386:G:H8	1.34	0.93
1:B:489:G:H1’	1:B:510:C:C2’	1.99	0.93
1:B:600:G:O3’	1:B:602:A:H4’	1.69	0.93
1:B:1675:C:H5”	1:B:1679:A:C1’	1.99	0.93
1:B:1847:A:H2	1:B:1889:A:C5’	1.79	0.93
1:B:1855:U:H1’	1:B:1884:G:H2’	1.50	0.93
1:B:1936:A:H5”	1:B:1939:5MU:P	2.07	0.93
1:B:2528:U:H3’	1:B:2529:G:H5’	1.47	0.93
1:B:30:G:OP2	1:B:1250:G:N2	2.02	0.93
1:B:263:G:H5”	1:B:359:G:O3’	1.69	0.93
1:B:294:A:O2’	1:B:327:G:N3	2.00	0.93
1:B:525:U:C5’	1:B:811:U:H1’	1.99	0.93
1:B:574:A:O4’	1:B:2039:U:H5”	1.67	0.93
1:B:802:A:C1’	1:B:1252:G:H22	1.81	0.93
1:B:1416:G:H5”	1:B:1637:A:OP1	1.67	0.93
1:B:1516:G:H4’	1:B:1517:G:N7	1.84	0.93
1:B:1932:A:O5’	1:B:1935:G:H5’	1.67	0.93
1:B:1934:C:H5”	1:B:1941:C:O2	1.69	0.93
1:B:46:G:C5’	1:B:46:G:H4’	2.00	0.92
1:B:310:A:O3’	1:B:483:A:N7	2.02	0.92
1:B:343:C:OP1	1:B:344:A:H5”	1.66	0.92
1:B:489:G:C1’	1:B:510:C:H2’	1.98	0.92
1:B:601:C:C5’	1:B:602:A:P	2.57	0.92
1:B:1451:C:H2’	1:B:1458:U:O4	1.68	0.92
1:B:1581:G:H2’	1:B:1582:C:O5’	1.68	0.92
1:B:1884:G:C5’	1:B:1885:A:P	2.55	0.92
1:B:2058:A:C6	1:B:2068:U:H2’	2.04	0.92
1:B:2497:A:C3’	1:B:2657:A:N1	2.32	0.92
1:B:2575:C:H5’	1:B:2576:G:C4’	2.00	0.92
1:B:2683:C:N3	1:B:2722:G:N7	2.17	0.92
1:B:2884:U:C6	1:B:2887:A:C8	2.56	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:A:H8	1:B:673:C:H2'	1.34	0.92
1:B:45:G:C5'	1:B:46:G:O5'	2.15	0.92
1:B:73:A:H3'	1:B:113:U:H2'	1.50	0.92
1:B:76:C:C5'	1:B:120:U:OP2	2.17	0.92
1:B:264:C:H5"	1:B:369:U:C2'	1.99	0.92
1:B:293:U:O3'	1:B:295:G:C8	2.22	0.92
1:B:359:G:O2'	1:B:370:G:H4'	1.69	0.92
1:B:1264:A:C2'	1:B:1265:A:H5'	1.99	0.92
1:B:1790:C:H5	1:B:1829:A:C8	1.86	0.92
1:B:2147:A:C5'	1:B:2148:G:C8	2.53	0.92
1:B:2571:U:H5"	1:B:2647:U:H4'	1.48	0.92
1:B:28:A:N3	1:B:674:G:C5'	2.33	0.92
1:B:572:A:N6	1:B:2623:G:N7	2.17	0.92
1:B:619:G:H1'	1:B:621:A:N3	1.84	0.92
1:B:745:7MG:C5'	1:B:748:G:O2'	2.17	0.92
1:B:1025:G:H5"	1:B:2468:A:H5"	0.92	0.92
1:B:1312:U:C5'	1:B:1641:A:C2	2.52	0.92
1:B:1416:G:O3'	1:B:1637:A:C5'	2.18	0.92
1:B:1451:C:O5'	1:B:1526:C:C1'	2.17	0.92
1:B:1470:A:O3'	1:B:1471:G:H4'	1.69	0.92
1:B:1570:A:N3	1:B:1572:A:C5'	2.33	0.92
1:B:1670:C:O2'	1:B:1753:G:H1'	1.66	0.92
1:B:1847:A:H2	1:B:1889:A:H5'	1.20	0.92
1:B:2135:A:O2'	1:B:2136:G:C5'	2.17	0.92
1:B:2503:A:C5'	1:B:2504:U:O5'	2.16	0.92
1:B:227:A:C5'	1:B:229:C:H41	1.80	0.92
1:B:525:U:C3'	1:B:811:U:H1'	1.99	0.92
1:B:706:A:C1'	1:B:707:G:C8	2.51	0.92
1:B:837:C:H5'	1:B:975:A:H3'	1.51	0.92
1:B:1189:A:H5"	1:B:1190:G:C5'	2.00	0.92
1:B:1568:G:C3'	1:B:1570:A:N6	2.33	0.92
1:B:1630:A:C5'	1:B:1631:G:OP2	2.17	0.92
1:B:2060:A:C4	1:B:2550:G:N2	2.37	0.92
1:B:270:A:H2'	1:B:271:G:OP1	1.69	0.92
1:B:344:A:N7	1:B:347:A:H5"	1.84	0.92
1:B:507:A:H61	1:B:1246:A:H62	1.08	0.92
1:B:828:U:H2'	1:B:829:A:H8	1.33	0.92
1:B:915:C:OP2	1:B:916:G:C1'	2.16	0.92
1:B:1050:A:C5'	1:B:1051:G:C5'	2.41	0.92
1:B:1189:A:H5"	1:B:1190:G:H5'	1.48	0.92
1:B:1286:A:N1	1:B:1287:A:N6	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1312:U:C6	1:B:1640:A:H1'	2.04	0.92
1:B:1325:U:O3'	1:B:1325:U:H3'	1.69	0.92
1:B:1450:G:H22	1:B:1452:G:H5'	1.31	0.92
1:B:1477:A:H5'	1:B:1478:G:O4'	1.68	0.92
1:B:1580:A:C1'	1:B:1632:A:H4'	1.99	0.92
1:B:1674:G:H8	1:B:1679:A:H2'	1.16	0.92
1:B:1855:U:H2'	1:B:1884:G:C3'	1.99	0.92
1:B:1905:C:O3'	1:B:1906:G:P	2.27	0.92
1:B:2076:U:H5"	1:B:2077:A:H8	1.10	0.92
1:B:138:U:C2	1:B:139:U:H5'	2.03	0.92
1:B:385:C:H2'	1:B:386:G:C8	2.05	0.92
1:B:445:C:H3'	1:B:470:A:N9	1.83	0.92
1:B:761:A:N1	1:B:762:U:N3	2.18	0.92
1:B:820:A:H5"	1:B:2628:C:O2'	1.68	0.92
1:B:861:A:H61	1:B:912:C:N4	1.66	0.92
1:B:2058:A:H61	1:B:2069:7MG:HM72	1.22	0.92
1:B:2092:U:C3'	1:B:2093:G:P	2.57	0.92
1:B:2462:C:OP2	1:B:2482:A:C6	2.22	0.92
1:B:75:G:C2'	1:B:119:A:C5'	2.48	0.92
1:B:215:G:C8	1:B:216:A:H8	1.86	0.92
1:B:452:G:H4'	1:B:478:A:C3'	1.99	0.92
1:B:507:A:C4	1:B:518:G:C4'	2.53	0.92
1:B:920:A:C2'	1:B:921:C:H5'	2.00	0.92
1:B:984:A:OP2	1:B:984:A:C8	2.22	0.92
1:B:1240:U:OP2	1:B:1241:A:H5'	1.69	0.92
1:B:1792:G:C8	1:B:1942:C:C2	2.57	0.92
1:B:1900:A:C8	1:B:1902:C:N4	2.37	0.92
1:B:2344:U:O2'	1:B:2345:G:H5"	1.69	0.92
1:B:2375:G:H5'	1:B:2414:G:H5"	1.48	0.92
1:B:2789:C:C5	1:B:2889:C:H2'	2.03	0.92
1:B:110:G:H2'	1:B:111:A:P	2.10	0.92
1:B:319:G:N2	1:B:324:A:O2'	2.02	0.92
1:B:500:G:C2'	1:B:505:A:H1'	2.00	0.92
1:B:535:G:O3'	1:B:950:G:O2'	1.86	0.92
1:B:620:G:C5'	1:B:621:A:N7	2.32	0.92
1:B:886:A:H2'	1:B:887:U:H5	1.34	0.92
1:B:913:U:O4	1:B:917:A:C2'	2.18	0.92
1:B:1142:A:C5'	1:B:1143:A:C8	2.52	0.92
1:B:1392:A:N7	1:B:1394:U:H1'	1.84	0.92
1:B:1801:A:H1'	1:B:1817:G:O5'	1.69	0.92
1:B:1828:G:H4'	1:B:1829:A:OP1	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1884:G:O2'	1:B:1885:A:C2'	2.17	0.92
1:B:1936:A:H5"	1:B:1938:A:O3'	1.69	0.92
1:B:2366:A:H5"	1:B:2367:G:C5'	2.00	0.92
1:B:110:G:HO3'	1:B:170:U:H5"	1.08	0.92
1:B:179:C:C2	1:B:196:A:H5"	2.04	0.92
1:B:342:A:H4'	1:B:345:A:H8	1.32	0.92
1:B:489:G:C8	1:B:510:C:H2'	2.05	0.92
1:B:861:A:P	1:B:862:G:O4'	2.28	0.92
1:B:867:C:C4'	1:B:868:U:C5	2.53	0.92
1:B:1135:C:C6	1:B:1140:C:C5'	2.53	0.92
1:B:1283:G:H5"	1:B:2013:A:O4'	1.70	0.92
1:B:1752:C:H5"	1:B:1988:G:H5'	1.52	0.92
1:B:1933:G:OP2	1:B:1941:C:H3'	1.69	0.92
1:B:2445:G:OP1	1:B:2555:U:C4'	2.17	0.92
1:B:2497:A:O3'	1:B:2497:A:H3'	1.65	0.92
1:B:2753:A:C5'	1:B:2754:U:C5'	2.48	0.92
1:B:263:G:O6	1:B:361:G:C5'	2.18	0.92
1:B:761:A:O3'	1:B:761:A:H3'	1.69	0.92
1:B:856:G:H4'	1:B:857:G:OP2	1.69	0.92
1:B:866:A:H2'	1:B:915:C:C1'	2.00	0.92
1:B:1427:A:O2'	1:B:1430:C:H4'	1.68	0.92
1:B:1693:U:C5'	1:B:2702:G:H22	1.83	0.92
1:B:1933:G:C3'	1:B:1935:G:H3'	2.00	0.92
1:B:1933:G:H2'	1:B:1939:5MU:O5'	1.68	0.92
1:B:75:G:C5'	1:B:113:U:H5"	1.98	0.91
1:B:859:G:C4'	1:B:860:U:C6	2.52	0.91
1:B:1321:A:P	1:B:1323:C:H4'	2.09	0.91
1:B:1492:G:H3'	1:B:1493:C:H5"	0.96	0.91
1:B:1574:C:C5'	1:B:1631:G:OP1	2.18	0.91
1:B:1791:A:O3'	1:B:1942:C:C6	2.23	0.91
1:B:2135:A:O2'	1:B:2136:G:H5'	1.70	0.91
1:B:2402:U:OP2	1:B:2406:A:H4'	1.70	0.91
1:B:2602:A:H2'	1:B:2603:G:C8	2.04	0.91
1:B:2751:G:C5'	1:B:2752:C:OP2	2.19	0.91
1:B:2873:A:C3'	1:B:2874:C:C5'	2.48	0.91
1:B:75:G:O3'	1:B:119:A:C4'	2.17	0.91
1:B:99:U:C3'	1:B:102:U:C1'	2.47	0.91
1:B:227:A:C2	1:B:432:A:C1'	2.53	0.91
1:B:452:G:C4'	1:B:478:A:H3'	2.00	0.91
1:B:728:G:C2'	1:B:729:G:C5'	2.29	0.91
1:B:1240:U:O4	1:B:1241:A:C8	2.23	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1252:G:N2	1:B:1253:A:C5'	2.29	0.91
1:B:1853:A:C2	1:B:1855:U:P	2.63	0.91
1:B:1933:G:C8	1:B:1938:A:H2'	2.04	0.91
1:B:2060:A:H4'	1:B:2446:G:C5'	1.98	0.91
1:B:2846:G:C5'	1:B:2846:G:C3'	2.47	0.91
1:B:240:C:H4'	1:B:275:C:H5"	0.97	0.91
1:B:1048:A:C5'	1:B:1049:C:H1'	1.99	0.91
1:B:1568:G:C4'	1:B:1570:A:N7	2.33	0.91
1:B:2115:G:N2	1:B:2172:U:C5	2.38	0.91
1:B:2722:G:OP1	1:B:2722:G:H8	1.51	0.91
1:B:2851:A:O5'	1:B:2871:U:H5	1.52	0.91
1:B:98:G:O2'	1:B:101:A:H1'	1.70	0.91
1:B:566:U:C5	1:B:836:G:C5'	2.53	0.91
1:B:587:C:O3'	1:B:587:C:H3'	1.69	0.91
1:B:777:G:N2	1:B:788:A:H3'	1.85	0.91
1:B:912:C:H1'	1:B:913:U:H3'	0.92	0.91
1:B:1288:G:H2'	1:B:1648:U:H1'	1.50	0.91
1:B:1299:G:N2	1:B:1300:G:C8	2.39	0.91
1:B:1312:U:C2'	1:B:1313:U:H5"	2.01	0.91
1:B:1639:C:O2'	1:B:1640:A:H5'	1.69	0.91
1:B:1655:A:H2'	1:B:1656:C:C5'	2.01	0.91
1:B:1853:A:O4'	1:B:1855:U:C2	2.24	0.91
1:B:1857:G:P	1:B:1886:U:N3	2.44	0.91
1:B:1933:G:O2'	1:B:1935:G:C2'	2.19	0.91
1:B:2375:G:P	1:B:2413:G:O3'	2.28	0.91
1:B:2496:C:H3'	1:B:2497:A:H5"	1.48	0.91
1:B:100:U:C1'	1:B:113:U:H5'	2.01	0.91
1:B:674:G:H5"	1:B:1250:G:OP1	1.69	0.91
1:B:859:G:H21	1:B:912:C:H5	1.13	0.91
1:B:978:G:H3'	1:B:979:A:C5'	1.99	0.91
1:B:1021:A:H61	1:B:2481:G:N2	1.67	0.91
1:B:1134:A:C2'	1:B:1140:C:O2'	2.17	0.91
1:B:1290:C:H5"	1:B:1646:C:C5'	2.01	0.91
1:B:1801:A:H8	1:B:1802:A:OP2	1.54	0.91
1:B:1856:U:P	1:B:1856:U:HO5'	1.87	0.91
1:B:2126:A:H5'	1:B:2167:U:H3	1.34	0.91
1:B:2431:U:HO2'	1:B:2432:A:H8	0.91	0.91
1:B:84:A:H5"	1:B:88:G:C2	2.06	0.91
1:B:140:C:C2'	1:B:141:G:H1'	2.00	0.91
1:B:489:G:H1'	1:B:510:C:C3'	2.00	0.91
1:B:684:G:C5'	1:B:776:G:OP1	2.17	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1004:U:O3'	1:B:1005:C:OP2	1.88	0.91
1:B:1130:U:C5'	1:B:2749:A:C8	2.53	0.91
1:B:1285:A:N7	1:B:1286:A:N6	2.17	0.91
1:B:1854:A:C5'	1:B:1854:A:H4'	2.01	0.91
1:B:1931:U:O3'	1:B:1935:G:C4'	2.19	0.91
1:B:1932:A:N7	1:B:1937:A:H5'	1.86	0.91
1:B:1933:G:O2'	1:B:1935:G:H2'	1.70	0.91
1:B:1981:A:H2'	1:B:1982:U:H6	1.31	0.91
1:B:2161:C:H1'	1:B:2168:G:H1	1.34	0.91
1:B:2846:G:O5'	1:B:2848:G:N9	2.02	0.91
1:B:221:A:N3	1:B:222:A:C2	2.39	0.91
1:B:323:C:H1'	1:B:325:G:O6	1.71	0.91
1:B:483:A:C2'	1:B:484:C:H4'	1.98	0.91
1:B:859:G:N2	1:B:912:C:H5	1.65	0.91
1:B:886:A:C2'	1:B:887:U:H5	1.83	0.91
1:B:1130:U:C3'	1:B:2753:A:OP2	2.18	0.91
1:B:1426:G:H4'	1:B:1572:A:C2'	2.01	0.91
1:B:1673:G:O3'	1:B:1678:A:N6	2.03	0.91
1:B:1904:G:O2'	1:B:1927:A:C1'	2.19	0.91
1:B:2061:G:C6	1:B:2552:U:H5"	2.05	0.91
1:B:2115:G:H22	1:B:2172:U:H5	0.98	0.91
1:B:2377:A:C2'	1:B:2394:C:C5	2.53	0.91
1:B:2400:G:OP1	1:B:2408:U:H5"	1.71	0.91
1:B:2466:C:OP1	1:B:2469:A:N7	2.04	0.91
1:B:219:A:H5'	1:B:256:A:O3'	1.69	0.91
1:B:222:A:C5'	1:B:262:A:N6	2.34	0.91
1:B:223:A:C4'	1:B:224:U:H6	1.82	0.91
1:B:266:G:H4'	1:B:368:A:O2'	1.68	0.91
1:B:457:A:H2	1:B:458:G:H3'	1.30	0.91
1:B:535:G:H4'	1:B:950:G:O2'	1.70	0.91
1:B:1312:U:C5'	1:B:1641:A:N1	2.34	0.91
1:B:1942:C:C5'	1:B:2442:C:C5'	2.25	0.91
1:B:2563:U:C2'	1:B:2565:A:H5'	2.01	0.91
1:B:71:A:C4'	1:B:105:C:OP1	2.19	0.91
1:B:330:A:C2	1:B:334:C:H2'	2.05	0.91
1:B:782:A:H5'	1:B:783:A:N7	1.86	0.91
1:B:857:G:C2'	1:B:912:C:O2	2.19	0.91
1:B:913:U:O2	1:B:919:U:O4	1.87	0.91
1:B:1117:C:OP1	1:B:2751:G:C5'	2.18	0.91
1:B:1130:U:C5	1:B:2749:A:C1'	2.54	0.91
1:B:1283:G:H3'	1:B:2012:G:N3	1.86	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1358:G:N2	1:B:1359:A:H3'	1.85	0.91
1:B:2172:U:O2	1:B:2173:A:H4'	1.69	0.91
1:B:82:U:O2'	1:B:84:A:H1'	1.67	0.91
1:B:228:C:H5	1:B:432:A:HO2'	1.18	0.91
1:B:435:C:O2'	1:B:437:U:H5	1.52	0.91
1:B:514:A:H5"	1:B:669:G:C2'	2.01	0.91
1:B:856:G:C5'	1:B:857:G:P	2.59	0.91
1:B:859:G:H4'	1:B:860:U:C6	2.05	0.91
1:B:861:A:H8	1:B:911:A:C2	1.89	0.91
1:B:971:G:HO2'	1:B:972:A:H2	0.92	0.91
1:B:1021:A:H2	1:B:1022:G:H3'	1.08	0.91
1:B:1202:G:C2'	1:B:1203:U:C5	2.54	0.91
1:B:1790:C:H5"	1:B:2443:C:C4'	2.00	0.91
1:B:2556:C:C5'	1:B:2557:G:H5"	1.98	0.91
1:B:2556:C:C6	1:B:2558:C:OP1	2.24	0.91
1:B:14:A:O2'	1:B:1256:G:N7	2.04	0.90
1:B:33:C:O2	1:B:677:A:H1'	1.70	0.90
1:B:199:A:OP2	1:B:200:U:C5	2.22	0.90
1:B:215:G:N7	1:B:216:A:H8	1.68	0.90
1:B:320:A:C2'	1:B:324:A:H2'	2.01	0.90
1:B:588:U:O3'	1:B:588:U:H3'	1.69	0.90
1:B:900:A:H2'	1:B:901:C:C5	2.07	0.90
1:B:1046:A:C5'	1:B:1051:G:N7	2.34	0.90
1:B:1906:G:C5'	1:B:1928:A:P	2.54	0.90
1:B:2055:C:C3'	1:B:2056:G:OP1	2.19	0.90
1:B:2682:A:H5"	1:B:2683:C:C4	2.05	0.90
1:B:2835:A:C5'	1:B:2836:U:C5	2.54	0.90
1:B:2846:G:H5"	1:B:2848:G:C1'	1.84	0.90
1:B:214:G:C8	1:B:219:A:C8	2.59	0.90
1:B:472:A:H3'	1:B:473:G:C8	2.06	0.90
1:B:1289:C:O4'	1:B:1648:U:H4'	1.70	0.90
1:B:1848:A:C3'	1:B:1849:G:OP2	2.19	0.90
1:B:1886:U:C6	1:B:1886:U:OP2	2.25	0.90
1:B:2498:5MC:P	1:B:2657:A:C2	2.64	0.90
1:B:2598:A:O2'	1:B:2599:G:H5'	1.70	0.90
1:B:69:C:C4'	1:B:85:G:C5'	2.41	0.90
1:B:73:A:C4'	1:B:113:U:N1	2.34	0.90
1:B:98:G:O5'	1:B:103:A:O4'	1.89	0.90
1:B:100:U:C5	1:B:118:A:O2'	2.25	0.90
1:B:217:A:C3'	1:B:218:A:H5'	1.99	0.90
1:B:294:A:O5'	1:B:295:G:O5'	1.89	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:423:A:HO3'	1:B:424:G:P	1.94	0.90
1:B:490:C:H5	1:B:510:C:HO2'	1.18	0.90
1:B:502:A:OP2	1:B:505:A:C2'	2.18	0.90
1:B:507:A:C2	1:B:517:C:O2'	2.24	0.90
1:B:526:A:C2	1:B:527:C:H5'	2.07	0.90
1:B:1253:A:O5'	1:B:1254:A:H1'	1.70	0.90
1:B:1348:C:N4	1:B:1601:G:H21	1.69	0.90
1:B:1426:G:O5'	1:B:1567:G:H3'	1.71	0.90
1:B:1472:C:O2	1:B:1521:G:O6	1.88	0.90
1:B:2493:U:C5'	1:B:2494:G:C8	2.54	0.90
1:B:2753:A:H5"	1:B:2754:U:C4'	2.01	0.90
1:B:2882:A:H5"	1:B:2883:A:OP2	1.70	0.90
1:B:28:A:C1'	1:B:1250:G:OP1	2.20	0.90
1:B:99:U:O5'	1:B:102:U:C2'	2.20	0.90
1:B:188:G:H5"	1:B:189:G:OP2	1.70	0.90
1:B:818:G:OP2	1:B:818:G:C8	2.24	0.90
1:B:1791:A:C2'	1:B:1934:C:C5	2.49	0.90
1:B:1847:A:H5"	1:B:1848:A:OP1	1.68	0.90
1:B:1853:A:C2'	1:B:1854:A:H4'	2.01	0.90
1:B:1885:A:H4'	1:B:1886:U:H5	1.34	0.90
1:B:2263:C:OP1	1:B:2424:C:C2'	2.19	0.90
1:B:2275:C:H5'	1:B:2427:C:O4'	1.71	0.90
1:B:120:U:O2	1:B:148:U:H3'	1.71	0.90
1:B:861:A:N6	1:B:912:C:H5	1.67	0.90
1:B:1048:A:C5'	1:B:1048:A:H4'	1.99	0.90
1:B:1265:A:C2	1:B:1616:A:C1'	2.54	0.90
1:B:1312:U:H5"	1:B:1641:A:N1	1.87	0.90
1:B:1520:U:C2'	1:B:1536:C:H5'	2.01	0.90
1:B:1778:U:H1'	1:B:2556:C:H5'	1.49	0.90
1:B:1935:G:H5"	1:B:1941:C:C2	2.06	0.90
1:B:1940:U:N3	1:B:2062:A:C8	2.39	0.90
1:B:2179:C:H3'	1:B:2180:U:H5"	1.53	0.90
1:B:2226:C:C2'	1:B:2227:A:H5'	2.02	0.90
1:B:69:C:H5'	1:B:85:G:H5'	1.53	0.90
1:B:216:A:N7	1:B:257:C:C4	2.40	0.90
1:B:322:A:O3'	1:B:322:A:H3'	1.70	0.90
1:B:330:A:O2'	1:B:333:G:N2	2.04	0.90
1:B:388:G:C2'	1:B:389:G:H5'	2.01	0.90
1:B:455:C:OP2	1:B:456:C:H4'	1.71	0.90
1:B:601:C:H5"	1:B:602:A:HO5'	1.13	0.90
1:B:675:A:C8	1:B:676:A:C8	2.59	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:764:A:H5'	1:B:765:C:H5'	1.54	0.90
1:B:1417:C:C2'	1:B:1635:A:C2	2.55	0.90
1:B:1671:U:C5	1:B:1672:A:H5"	2.07	0.90
1:B:1858:A:H1'	1:B:1884:G:C2	2.07	0.90
1:B:1866:A:OP2	1:B:1867:G:OP1	1.87	0.90
1:B:2060:A:C6	1:B:2448:A:C1'	2.54	0.90
1:B:2319:G:H4'	1:B:2320:U:OP1	1.72	0.90
1:B:98:G:O6	1:B:106:C:N4	2.05	0.90
1:B:203:A:P	1:B:204:A:C8	2.65	0.90
1:B:222:A:H4'	1:B:223:A:OP1	1.70	0.90
1:B:266:G:N2	1:B:269:C:N4	2.20	0.90
1:B:525:U:H5"	1:B:811:U:C1'	2.02	0.90
1:B:526:A:P	1:B:811:U:H2'	2.11	0.90
1:B:568:U:N1	1:B:833:A:C5'	2.34	0.90
1:B:588:U:C3'	1:B:589:U:OP2	2.19	0.90
1:B:1419:A:C2	1:B:1573:G:C5'	2.53	0.90
1:B:2834:G:C2'	1:B:2879:A:H61	1.83	0.90
1:B:2846:G:O5'	1:B:2848:G:C1'	2.20	0.90
1:B:11:C:C5'	1:B:586:A:H4'	2.01	0.90
1:B:64:A:O2'	1:B:65:U:C6	2.24	0.90
1:B:231:A:H2	1:B:431:U:H3	0.99	0.90
1:B:316:C:HO3'	1:B:317:G:P	1.90	0.90
1:B:452:G:C4'	1:B:478:A:C3'	2.50	0.90
1:B:837:C:H5'	1:B:975:A:H5'	1.51	0.90
1:B:1116:G:H2'	1:B:1117:C:C6	2.06	0.90
1:B:1321:A:OP1	1:B:1323:C:H4'	1.72	0.90
1:B:1715:G:H5'	1:B:1738:G:N7	1.85	0.90
1:B:1853:A:N3	1:B:1855:U:P	2.45	0.90
1:B:1928:A:H4'	1:B:1938:A:H5"	1.52	0.90
1:B:2365:G:H4'	1:B:2366:A:H1'	0.92	0.90
1:B:2448:A:H2'	1:B:2449:5MU:O2	1.72	0.90
1:B:2497:A:H2'	1:B:2665:A:H1'	1.50	0.90
1:B:27:G:N2	1:B:1248:G:C3'	2.34	0.90
1:B:75:G:H2'	1:B:119:A:H5'	1.50	0.90
1:B:215:G:C5'	1:B:219:A:C5'	2.50	0.90
1:B:227:A:C5'	1:B:229:C:N4	2.35	0.90
1:B:525:U:H3'	1:B:811:U:N1	1.87	0.90
1:B:805:G:H1'	1:B:1252:G:C4'	2.02	0.90
1:B:805:G:H2'	1:B:806:C:H5'	1.53	0.90
1:B:837:C:O2'	1:B:976:G:H8	1.55	0.90
1:B:1477:A:H2	1:B:1515:A:H61	0.92	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1744:A:C2	1:B:1746:A:H5'	2.05	0.90
1:B:1803:A:C5'	1:B:1804:C:C6	2.54	0.90
1:B:52:A:P	1:B:176:A:C2	2.65	0.90
1:B:100:U:C4	1:B:113:U:H4'	2.07	0.90
1:B:101:A:C8	1:B:102:U:C6	2.59	0.90
1:B:110:G:O3'	1:B:170:U:C4'	2.19	0.90
1:B:140:C:O2	1:B:1332:G:H1'	1.71	0.90
1:B:608:A:OP1	1:B:610:C:H6	1.55	0.90
1:B:805:G:C2'	1:B:806:C:H5'	2.02	0.90
1:B:810:U:H1'	1:B:1196:C:N4	1.86	0.90
1:B:1022:G:H5'	1:B:2463:C:OP2	1.72	0.90
1:B:1132:U:OP2	1:B:2753:A:H1'	1.71	0.90
1:B:1787:A:H2	1:B:2556:C:P	1.95	0.90
1:B:1991:U:OP2	1:B:1992:G:C8	2.25	0.90
1:B:2128:G:H4'	1:B:2169:A:OP1	1.71	0.90
1:B:2147:A:H5'	1:B:2148:G:H8	1.16	0.90
1:B:2451:A:C2	1:B:2563:U:P	2.64	0.90
1:B:2556:C:C4'	1:B:2557:G:H4'	2.02	0.90
1:B:2556:C:H3'	1:B:2557:G:C3'	2.02	0.90
1:B:2857:G:H2'	1:B:2858:C:C5	2.08	0.90
1:B:75:G:C5'	1:B:113:U:O5'	2.20	0.89
1:B:178:G:C8	1:B:179:C:C5	2.61	0.89
1:B:262:A:H5'	1:B:429:A:H4'	1.24	0.89
1:B:802:A:H2'	1:B:1252:G:N2	1.85	0.89
1:B:850:U:C2'	1:B:851:C:C6	2.55	0.89
1:B:1426:G:P	1:B:1566:A:H1'	2.12	0.89
1:B:1453:A:N3	1:B:1525:A:H2'	1.85	0.89
1:B:1610:A:C4'	1:B:1611:C:C5	2.55	0.89
1:B:1674:G:H5'	1:B:1702:G:OP2	1.71	0.89
1:B:1905:C:H5'	1:B:1927:A:C2'	2.03	0.89
1:B:1929:G:C5'	1:B:1930:G:OP1	2.20	0.89
1:B:1930:G:H5"	1:B:1935:G:OP2	1.72	0.89
1:B:2497:A:O2'	1:B:2657:A:N1	2.02	0.89
1:B:52:A:O5'	1:B:176:A:N3	2.05	0.89
1:B:453:A:N6	1:B:477:A:N1	2.19	0.89
1:B:460:A:N7	1:B:593:U:P	2.45	0.89
1:B:1017:G:O2'	1:B:1128:G:C2'	2.18	0.89
1:B:1115:G:H22	1:B:2755:C:H5	0.95	0.89
1:B:1232:G:OP2	1:B:1236:G:H8	1.56	0.89
1:B:1347:A:C4'	1:B:1348:C:P	2.60	0.89
1:B:1582:C:C5	1:B:1632:A:H3'	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1826:G:C5'	1:B:1967:C:OP1	2.20	0.89
1:B:1860:G:O6	1:B:1884:G:C5	2.24	0.89
1:B:2115:G:C5'	1:B:2122:U:OP2	2.21	0.89
1:B:2185:U:H4'	1:B:2186:G:N7	1.87	0.89
1:B:2810:A:H5'	1:B:2811:G:H8	1.27	0.89
1:B:126:A:C3'	1:B:128:C:H41	1.84	0.89
1:B:294:A:OP1	1:B:295:G:C8	2.25	0.89
1:B:856:G:H5"	1:B:857:G:OP2	1.71	0.89
1:B:926:G:O3'	1:B:928:A:OP1	1.90	0.89
1:B:926:G:O3'	1:B:927:A:C5'	2.20	0.89
1:B:1449:G:P	1:B:1587:G:H4'	2.12	0.89
1:B:1477:A:H2	1:B:1515:A:N6	1.70	0.89
1:B:1852:U:C4	1:B:1883:U:H1'	2.08	0.89
1:B:2114:A:H5"	1:B:2118:U:H1'	1.53	0.89
1:B:2233:U:H2'	1:B:2234:G:H8	1.38	0.89
1:B:2445:G:OP1	1:B:2555:U:H4'	1.71	0.89
1:B:2572:A:O5'	1:B:2646:C:H1'	1.71	0.89
1:B:2763:G:H4'	1:B:2765:A:H62	1.36	0.89
1:B:2879:A:C5'	1:B:2880:C:C5	2.35	0.89
1:B:2884:U:H5"	1:B:2890:G:H21	1.36	0.89
1:B:14:A:H4'	1:B:1256:G:N7	1.86	0.89
1:B:71:A:H62	1:B:106:C:N4	1.71	0.89
1:B:75:G:O3'	1:B:76:C:OP2	1.90	0.89
1:B:98:G:C5	1:B:105:C:N4	2.40	0.89
1:B:487:C:O2	1:B:505:A:C2	2.26	0.89
1:B:513:A:C8	1:B:514:A:C5'	2.56	0.89
1:B:574:A:O5'	1:B:2044:C:H5"	1.73	0.89
1:B:611:C:H5"	1:B:612:G:OP2	1.72	0.89
1:B:759:G:C5'	1:B:1950:G:OP1	2.18	0.89
1:B:941:A:H5"	1:B:947:A:C5'	2.03	0.89
1:B:1023:U:H2'	1:B:2465:C:N4	1.87	0.89
1:B:1584:U:O2'	1:B:1634:A:H5"	1.72	0.89
1:B:1674:G:H1'	1:B:1680:U:O5'	1.71	0.89
1:B:1791:A:H3'	1:B:1942:C:C3'	2.02	0.89
1:B:1801:A:H1'	1:B:1816:C:O2'	1.73	0.89
1:B:1906:G:N7	1:B:1927:A:H3'	1.86	0.89
1:B:84:A:C8	1:B:85:G:N7	2.41	0.89
1:B:93:G:H8	1:B:504:A:OP1	1.55	0.89
1:B:223:A:C4'	1:B:224:U:C6	2.56	0.89
1:B:362:A:C5'	1:B:428:A:C5'	2.50	0.89
1:B:501:A:OP2	1:B:502:A:C8	2.26	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1848:A:H3'	1:B:1849:G:H5"	1.54	0.89
1:B:1857:G:H2'	1:B:1858:A:OP1	1.70	0.89
1:B:2114:A:C5'	1:B:2118:U:H1'	2.03	0.89
1:B:176:A:H4'	1:B:177:G:O3'	1.72	0.89
1:B:215:G:C5'	1:B:219:A:H5"	2.02	0.89
1:B:293:U:O3'	1:B:294:A:O5'	1.90	0.89
1:B:311:A:H8	1:B:483:A:N6	1.69	0.89
1:B:602:A:C5'	1:B:602:A:H4'	1.99	0.89
1:B:764:A:H1'	1:B:765:C:H5	1.23	0.89
1:B:764:A:H4'	1:B:765:C:H5'	1.54	0.89
1:B:861:A:N6	1:B:912:C:N4	2.19	0.89
1:B:978:G:H5"	1:B:979:A:OP2	1.72	0.89
1:B:1022:G:C5'	1:B:1023:U:OP2	2.21	0.89
1:B:1419:A:H1'	1:B:1573:G:C8	2.07	0.89
1:B:1499:C:O2'	1:B:1500:G:C5'	2.19	0.89
1:B:1521:G:C5	1:B:1522:A:C1'	2.56	0.89
1:B:1669:A:H4'	1:B:1670:C:OP1	1.72	0.89
1:B:1674:G:H5"	1:B:1678:A:N1	1.87	0.89
1:B:1791:A:N9	1:B:1934:C:H6	1.70	0.89
1:B:1803:A:H3'	1:B:1804:C:H5'	1.54	0.89
1:B:1841:U:H2'	1:B:1842:G:O4'	1.71	0.89
1:B:1932:A:C8	1:B:1938:A:O5'	2.26	0.89
1:B:2158:A:C2'	1:B:2159:G:H5"	1.94	0.89
1:B:2359:C:OP1	1:B:2360:G:H8	1.51	0.89
1:B:2379:G:C2'	1:B:2393:U:H1'	2.02	0.89
1:B:2497:A:C2'	1:B:2665:A:H1'	2.02	0.89
1:B:2502:G:N7	1:B:2574:G:H5"	1.87	0.89
1:B:2582:G:H5"	1:B:2583:G:C8	2.07	0.89
1:B:27:G:N2	1:B:1248:G:H4'	1.86	0.89
1:B:69:C:C3'	1:B:85:G:H4'	2.03	0.89
1:B:135:U:C5'	1:B:168:G:O2'	2.21	0.89
1:B:222:A:C5'	1:B:262:A:H62	1.84	0.89
1:B:529:A:H5'	1:B:530:G:C8	2.07	0.89
1:B:532:A:H3'	1:B:533:G:H5"	0.90	0.89
1:B:764:A:H4'	1:B:765:C:O5'	1.71	0.89
1:B:764:A:O4'	1:B:765:C:H6	1.54	0.89
1:B:764:A:O5'	1:B:765:C:H5'	1.71	0.89
1:B:1445:G:H4'	1:B:1543:G:C6	2.07	0.89
1:B:1453:A:C1'	1:B:1525:A:C8	2.36	0.89
1:B:1568:G:C1'	1:B:1575:C:N4	2.32	0.89
1:B:1854:A:O5'	1:B:1888:G:N3	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1938:A:H4'	1:B:1941:C:C4	2.08	0.89
1:B:2060:A:C8	1:B:2448:A:N3	2.40	0.89
1:B:2738:A:H8	1:B:2741:A:C2	1.90	0.89
1:B:16:C:OP1	1:B:1198:U:C1'	2.21	0.89
1:B:29:U:H3'	1:B:1250:G:H22	1.38	0.89
1:B:77:G:O3'	1:B:99:U:C6	2.25	0.89
1:B:363:G:H5'	1:B:429:A:H5"	0.93	0.89
1:B:588:U:C2'	1:B:589:U:H5	1.86	0.89
1:B:602:A:H1'	1:B:604:G:C8	2.07	0.89
1:B:1116:G:H5"	1:B:2750:A:O3'	1.71	0.89
1:B:1572:A:C6	1:B:1573:G:H5'	2.08	0.89
1:B:1791:A:C4	1:B:1934:C:H6	1.86	0.89
1:B:1802:A:H61	1:B:1813:G:H2'	1.36	0.89
1:B:1855:U:H2'	1:B:1886:U:OP1	1.71	0.89
1:B:2894:G:H8	1:B:2895:G:C4'	1.86	0.89
1:B:15:G:N1	1:B:1252:G:O6	2.05	0.89
1:B:137:U:H1'	1:B:1325:U:H3'	1.55	0.89
1:B:215:G:O5'	1:B:219:A:H5"	1.72	0.89
1:B:264:C:H5'	1:B:369:U:O2	1.73	0.89
1:B:574:A:H4'	1:B:2043:C:O2'	1.72	0.89
1:B:762:U:O3'	1:B:763:G:P	2.31	0.89
1:B:1274:A:H2'	1:B:1287:A:O3'	1.70	0.89
1:B:1282:U:H2'	1:B:1285:A:H62	1.37	0.89
1:B:1450:G:H3'	1:B:1526:C:O2	1.73	0.89
1:B:1791:A:H5'	1:B:1972:G:O6	1.71	0.89
1:B:71:A:HO2'	1:B:113:U:H3'	1.32	0.89
1:B:435:C:O3'	1:B:436:C:OP2	1.89	0.89
1:B:760:G:C4'	1:B:761:A:O5'	2.17	0.89
1:B:861:A:O4'	1:B:862:G:N7	2.06	0.89
1:B:1214:A:H5"	1:B:1215:G:C8	2.07	0.89
1:B:1582:C:N4	1:B:1632:A:C4	2.41	0.89
1:B:1625:C:H4'	1:B:1643:G:OP1	1.72	0.89
1:B:1674:G:H8	1:B:1675:C:O5'	1.56	0.89
1:B:1736:U:OP2	1:B:1739:A:H5'	1.73	0.89
1:B:1854:A:P	1:B:1888:G:N9	2.46	0.89
1:B:2060:A:H1'	1:B:2558:C:C1'	2.03	0.89
1:B:2719:G:H5"	1:B:2720:U:C6	2.08	0.89
1:B:195:A:C2'	1:B:196:A:H8	1.82	0.88
1:B:451:U:H1'	1:B:460:A:C5'	2.02	0.88
1:B:746:PSU:OP1	1:B:748:G:H2'	1.72	0.88
1:B:1416:G:O3'	1:B:1637:A:H5'	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1756:G:HO2'	1:B:1757:A:H8	0.91	0.88
1:B:1791:A:C8	1:B:1942:C:O5'	2.26	0.88
1:B:1791:A:C4'	1:B:1942:C:H6	1.87	0.88
1:B:1848:A:C3'	1:B:1849:G:H5"	2.02	0.88
1:B:1853:A:H3'	1:B:1888:G:C4'	2.03	0.88
1:B:1856:U:O5'	1:B:1886:U:O5'	1.89	0.88
1:B:2139:U:H5	1:B:2152:G:H1	1.17	0.88
1:B:2438:U:H2'	1:B:2439:A:H5"	1.55	0.88
1:B:210:C:H1'	1:B:217:A:C2	2.08	0.88
1:B:429:A:O3'	1:B:430:A:P	2.31	0.88
1:B:450:G:H3'	1:B:451:U:H5'	1.56	0.88
1:B:684:G:C5'	1:B:684:G:O4'	2.20	0.88
1:B:1115:G:H1	1:B:2748:A:H2'	1.39	0.88
1:B:1128:G:H4'	1:B:2751:G:H2'	0.89	0.88
1:B:1289:C:N1	1:B:1648:U:H4'	1.87	0.88
1:B:1417:C:H3'	1:B:1636:U:H1'	1.53	0.88
1:B:1527:G:C2	1:B:1529:G:H5'	2.09	0.88
1:B:1905:C:N4	1:B:1929:G:H5"	1.88	0.88
1:B:2384:U:O3'	1:B:2385:C:P	2.31	0.88
1:B:2397:G:H1	1:B:2419:U:H3	1.22	0.88
1:B:2719:G:C4'	1:B:2720:U:H5'	2.03	0.88
1:B:12:U:O5'	1:B:1195:G:N2	2.04	0.88
1:B:113:U:OP1	1:B:119:A:C1'	2.21	0.88
1:B:264:C:C5	1:B:429:A:N6	2.41	0.88
1:B:365:U:H5"	1:B:368:A:N7	1.86	0.88
1:B:568:U:C6	1:B:833:A:H4'	2.07	0.88
1:B:857:G:P	1:B:857:G:HO5'	1.91	0.88
1:B:1049:C:N3	1:B:1050:A:C8	2.41	0.88
1:B:1117:C:H4'	1:B:1129:A:C3'	2.03	0.88
1:B:1283:G:H2'	1:B:2012:G:O3'	1.72	0.88
1:B:1307:A:C4'	1:B:1308:A:C5'	2.44	0.88
1:B:1417:C:OP1	1:B:1466:U:H6	1.56	0.88
1:B:1580:A:H1'	1:B:1632:A:H4'	1.55	0.88
1:B:1790:C:N4	1:B:1830:C:OP2	2.06	0.88
1:B:1904:G:HO2'	1:B:1927:A:H1'	1.36	0.88
1:B:1933:G:H1'	1:B:1935:G:N2	1.89	0.88
1:B:2695:U:H3	1:B:2714:G:H1	1.22	0.88
1:B:15:G:C5'	1:B:1197:G:C1'	2.50	0.88
1:B:28:A:O3'	1:B:28:A:C2'	2.21	0.88
1:B:110:G:HO3'	1:B:170:U:C5'	1.79	0.88
1:B:270:A:C1'	1:B:271:G:H5'	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:A:H1'	1:B:444:C:C5	2.09	0.88
1:B:498:G:C5'	1:B:498:G:H4'	2.03	0.88
1:B:500:G:H4'	1:B:503:A:C5'	2.01	0.88
1:B:803:U:C6	1:B:1254:A:O3'	2.27	0.88
1:B:857:G:H5'	1:B:858:G:H8	1.35	0.88
1:B:1018:U:P	1:B:2752:C:H5"	2.13	0.88
1:B:1149:G:O2'	1:B:1150:C:H5'	1.73	0.88
1:B:1264:A:C2'	1:B:1265:A:C5'	2.52	0.88
1:B:1667:G:H1	1:B:1993:U:H3	1.22	0.88
1:B:1933:G:H2'	1:B:1939:5MU:P	2.13	0.88
1:B:1934:C:O5'	1:B:1941:C:H1'	1.71	0.88
1:B:2382:G:H3'	1:B:2383:G:C8	2.08	0.88
1:B:2738:A:C8	1:B:2741:A:C2	2.62	0.88
1:B:52:A:P	1:B:176:A:N3	2.47	0.88
1:B:72:U:C2	1:B:114:U:H4'	2.08	0.88
1:B:83:A:C2	1:B:84:A:C5'	2.56	0.88
1:B:159:G:OP2	1:B:160:A:C8	2.27	0.88
1:B:222:A:H5'	1:B:262:A:N6	1.89	0.88
1:B:408:G:H1	1:B:419:U:H3	1.22	0.88
1:B:443:A:HO2'	1:B:444:C:H5	1.21	0.88
1:B:450:G:N7	1:B:592:A:C2	2.41	0.88
1:B:707:G:H1	1:B:724:U:H3	1.22	0.88
1:B:764:A:O4'	1:B:765:C:C6	2.26	0.88
1:B:787:C:H2'	1:B:788:A:O5'	1.72	0.88
1:B:971:G:O2'	1:B:972:A:H2	1.54	0.88
1:B:1211:C:H6	1:B:1235:G:HO2'	1.22	0.88
1:B:1855:U:C2'	1:B:1884:G:C2'	2.52	0.88
1:B:1858:A:O2'	1:B:1885:A:C2	2.26	0.88
1:B:1882:U:H3'	1:B:1883:U:H5'	1.54	0.88
1:B:2009:A:O3'	1:B:2010:G:O5'	1.90	0.88
1:B:2102:G:H1	1:B:2187:U:H3	1.22	0.88
1:B:2196:C:H4'	1:B:2197:U:OP1	1.72	0.88
1:B:2448:A:N3	1:B:2449:5MU:C2	2.41	0.88
1:B:2458:G:H1	1:B:2492:U:H3	1.22	0.88
1:B:77:G:H3'	1:B:99:U:H1'	1.56	0.88
1:B:223:A:H4'	1:B:224:U:C6	2.08	0.88
1:B:451:U:C6	1:B:460:A:H5"	2.08	0.88
1:B:696:G:H1	1:B:766:U:H3	1.22	0.88
1:B:801:G:H22	1:B:1253:A:H62	1.20	0.88
1:B:927:A:C5'	1:B:928:A:OP1	2.20	0.88
1:B:1454:C:OP1	1:B:1526:C:H4'	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1466:U:C5'	1:B:1466:U:H4'	1.99	0.88
1:B:1601:G:H4'	1:B:1602:U:OP1	1.70	0.88
1:B:1860:G:H1	1:B:1882:U:H3	1.22	0.88
1:B:1933:G:C8	1:B:1938:A:C2'	2.57	0.88
1:B:1943:U:C5	1:B:2071:A:C4'	2.56	0.88
1:B:2046:G:H1	1:B:2622:U:H3	1.22	0.88
1:B:2099:U:H3	1:B:2190:G:H1	1.22	0.88
1:B:2304:G:H1	1:B:2312:U:H3	1.22	0.88
1:B:2825:G:H2'	1:B:2826:A:H8	1.36	0.88
1:B:93:G:N9	1:B:498:G:H4'	1.87	0.88
1:B:97:C:C3'	1:B:103:A:H1'	2.04	0.88
1:B:98:G:N7	1:B:105:C:N4	2.21	0.88
1:B:159:G:H1	1:B:166:U:H3	1.21	0.88
1:B:240:C:C6	1:B:274:C:OP1	2.26	0.88
1:B:443:A:H1'	1:B:444:C:H5	1.39	0.88
1:B:560:C:C2'	1:B:561:G:H5'	2.04	0.88
1:B:764:A:N6	1:B:1948:G:N3	2.20	0.88
1:B:881:G:N2	1:B:896:A:C2	2.42	0.88
1:B:1696:G:O3'	1:B:2703:C:C6	2.26	0.88
1:B:1988:G:C3'	1:B:1989:G:P	2.61	0.88
1:B:2505:G:O3'	1:B:2505:G:H3'	1.69	0.88
1:B:52:A:P	1:B:52:A:HO5'	1.93	0.88
1:B:75:G:C5'	1:B:75:G:O4'	2.22	0.88
1:B:837:C:C5'	1:B:975:A:H5'	2.04	0.88
1:B:1166:G:H1	1:B:1183:U:H3	1.22	0.88
1:B:1312:U:O5'	1:B:1641:A:C2	2.27	0.88
1:B:1419:A:H2	1:B:1573:G:H5"	1.32	0.88
1:B:1426:G:H5'	1:B:1572:A:N9	1.89	0.88
1:B:1568:G:C5'	1:B:1570:A:N7	2.37	0.88
1:B:1791:A:H2	1:B:1929:G:O3'	1.56	0.88
1:B:1792:G:C8	1:B:1942:C:N3	2.41	0.88
1:B:1947:C:H4'	1:B:1963:U:C2	2.09	0.88
1:B:2345:G:OP1	1:B:2381:A:N7	2.06	0.88
1:B:2871:U:C5'	1:B:2872:A:O4'	2.22	0.88
1:B:73:A:O5'	1:B:113:U:N1	2.07	0.88
1:B:198:C:C2'	1:B:199:A:C8	2.56	0.88
1:B:207:A:O3'	1:B:208:C:P	2.31	0.88
1:B:224:U:OP1	1:B:281:C:OP2	1.92	0.88
1:B:898:C:C3'	1:B:899:A:H5'	1.97	0.88
1:B:954:G:H1	1:B:963:U:H3	1.22	0.88
1:B:1030:C:OP1	1:B:1127:A:H5'	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1283:G:H2'	1:B:2012:G:C3'	2.04	0.88
1:B:1434:A:H4'	1:B:1435:G:H8	1.35	0.88
1:B:1692:U:H5"	1:B:1698:A:N7	1.88	0.88
1:B:1852:U:C2'	1:B:1885:A:H8	1.86	0.88
1:B:1853:A:OP2	1:B:1886:U:C4	2.26	0.88
1:B:1932:A:C4'	1:B:1941:C:C2	2.57	0.88
1:B:1973:G:C5'	1:B:2062:A:N3	2.37	0.88
1:B:2503:A:C5'	1:B:2504:U:O4'	2.22	0.88
1:B:2688:G:N2	1:B:2725:A:H1'	1.89	0.88
1:B:2859:G:C8	1:B:2860:A:H8	1.92	0.88
1:B:142:A:C5'	1:B:1330:C:O2'	2.20	0.88
1:B:300:A:O3'	1:B:300:A:H3'	1.72	0.88
1:B:317:G:H5'	1:B:321:U:C4	2.09	0.88
1:B:450:G:O6	1:B:666:A:C4	2.27	0.88
1:B:483:A:C3'	1:B:484:C:C5'	2.36	0.88
1:B:566:U:C5	1:B:836:G:O3'	2.27	0.88
1:B:837:C:C5'	1:B:975:A:C5'	2.51	0.88
1:B:839:U:OP1	1:B:961:C:N4	2.07	0.88
1:B:1116:G:O3'	1:B:2750:A:H2'	1.73	0.88
1:B:1130:U:H5'	1:B:2749:A:N7	1.89	0.88
1:B:1318:U:H3	1:B:1334:G:H1	1.22	0.88
1:B:1426:G:P	1:B:1567:G:C8	2.67	0.88
1:B:1546:G:HO2'	1:B:1547:C:H5'	1.38	0.88
1:B:1551:A:O5'	1:B:1552:A:H1'	1.73	0.88
1:B:1934:C:C5'	1:B:1941:C:O2	2.21	0.88
1:B:1950:G:N2	1:B:1951:U:H1'	1.88	0.88
1:B:2061:G:N1	1:B:2552:U:H5"	1.89	0.88
1:B:2107:G:H1	1:B:2182:U:H3	1.22	0.88
1:B:2115:G:H5"	1:B:2121:G:H3'	1.56	0.88
1:B:2528:U:H3	1:B:2535:G:H1	1.22	0.88
1:B:2808:G:C2'	1:B:2809:A:H3'	1.98	0.88
1:B:73:A:C5'	1:B:113:U:O4'	2.22	0.87
1:B:78:U:H3	1:B:108:G:H1	1.22	0.87
1:B:397:U:H2'	1:B:398:C:C6	2.09	0.87
1:B:527:C:H5	1:B:1189:A:H2'	1.39	0.87
1:B:577:G:OP1	1:B:2019:A:H5"	1.74	0.87
1:B:685:A:H4'	1:B:685:A:H5"	1.56	0.87
1:B:858:G:H1	1:B:919:U:H3	1.22	0.87
1:B:1006:C:C5'	1:B:1007:C:C5'	2.48	0.87
1:B:1382:G:H5"	1:B:1383:A:OP2	1.73	0.87
1:B:1546:G:H2'	1:B:1547:C:C5'	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1737:G:OP1	1:B:1740:G:H5'	1.74	0.87
1:B:1848:A:O3'	1:B:1849:G:C5'	2.23	0.87
1:B:1882:U:H2'	1:B:1883:U:H3'	1.56	0.87
1:B:1934:C:P	1:B:1935:G:H5"	2.13	0.87
1:B:1972:G:OP1	1:B:2442:C:O3'	1.89	0.87
1:B:2165:C:O2'	1:B:2168:G:H1'	1.74	0.87
1:B:2725:A:C5'	1:B:2728:U:C5'	2.51	0.87
1:B:2735:G:H1	1:B:2769:U:H3	1.22	0.87
1:B:98:G:H5'	1:B:103:A:P	2.13	0.87
1:B:101:A:H2'	1:B:103:A:O3'	1.73	0.87
1:B:1036:G:H1	1:B:1119:U:H3	1.22	0.87
1:B:1129:A:C8	1:B:2752:C:H1'	2.08	0.87
1:B:1133:A:H5"	1:B:1143:A:N6	1.89	0.87
1:B:1510:G:H5'	1:B:1511:G:O4'	1.74	0.87
1:B:1568:G:C2'	1:B:1570:A:N6	2.36	0.87
1:B:1696:G:O4'	1:B:1697:G:C8	2.26	0.87
1:B:1718:G:H3'	1:B:1720:U:H1'	1.53	0.87
1:B:2005:A:O2'	1:B:2006:C:C5	2.27	0.87
1:B:2085:U:H3	1:B:2234:G:H1	1.22	0.87
1:B:2460:U:H3	1:B:2490:G:H1	1.22	0.87
1:B:2845:U:O2'	1:B:2848:G:C5	2.27	0.87
1:B:10:A:C2	1:B:587:C:OP2	2.28	0.87
1:B:30:G:OP2	1:B:1250:G:C2	2.28	0.87
1:B:335:C:H4'	1:B:341:C:H42	1.35	0.87
1:B:570:G:N3	1:B:2043:C:OP2	2.07	0.87
1:B:670:A:C2	1:B:672:C:OP2	2.27	0.87
1:B:844:A:H4'	1:B:847:U:C5	2.10	0.87
1:B:844:A:O5'	1:B:845:A:H5'	1.75	0.87
1:B:845:A:OP1	1:B:848:C:H5	1.54	0.87
1:B:1116:G:H3'	1:B:2750:A:H2'	1.54	0.87
1:B:1117:C:OP1	1:B:2751:G:P	2.31	0.87
1:B:1724:G:H1	1:B:1736:U:H3	1.22	0.87
1:B:1848:A:O3'	1:B:1849:G:OP2	1.91	0.87
1:B:1853:A:C2	1:B:1855:U:OP2	2.27	0.87
1:B:1900:A:N7	1:B:1902:C:N4	2.21	0.87
1:B:1942:C:H1'	1:B:2442:C:O4'	1.74	0.87
1:B:2060:A:C1'	1:B:2558:C:H1'	2.03	0.87
1:B:2133:G:N2	1:B:2156:G:H21	1.71	0.87
1:B:2158:A:H2'	1:B:2159:G:C4'	2.04	0.87
1:B:240:C:C5'	1:B:276:U:OP2	2.21	0.87
1:B:411:G:O2'	1:B:2406:A:C8	2.24	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:H1'	1:B:2039:U:O3'	1.72	0.87
1:B:600:G:H1	1:B:657:U:H3	1.22	0.87
1:B:857:G:H2'	1:B:912:C:C2	2.09	0.87
1:B:862:G:H2'	1:B:863:A:H5'	1.57	0.87
1:B:866:A:C2'	1:B:915:C:O2	2.21	0.87
1:B:1117:C:H5'	1:B:2751:G:O5'	1.74	0.87
1:B:1672:A:C1'	1:B:1674:G:P	2.61	0.87
1:B:1891:G:H5"	1:B:1892:C:H5	0.71	0.87
1:B:2086:U:H1'	1:B:2087:G:N7	1.90	0.87
1:B:2202:U:H5"	1:B:2203:U:H5"	1.56	0.87
1:B:74:A:OP1	1:B:113:U:C2'	2.22	0.87
1:B:87:U:O2'	1:B:497:A:C4'	2.23	0.87
1:B:189:G:C3'	1:B:190:A:O2'	2.22	0.87
1:B:291:G:H1	1:B:349:U:H3	1.22	0.87
1:B:329:G:C1'	1:B:335:C:H41	1.85	0.87
1:B:452:G:C8	1:B:479:A:O5'	2.27	0.87
1:B:539:G:H1	1:B:554:U:H3	1.22	0.87
1:B:647:G:H8	1:B:653:U:C5'	1.88	0.87
1:B:703:U:H3	1:B:729:G:H1	1.22	0.87
1:B:834:G:O4'	1:B:977:G:C4'	2.21	0.87
1:B:1253:A:O4'	1:B:1254:A:H8	1.57	0.87
1:B:1283:G:C2'	1:B:2012:G:O3'	2.21	0.87
1:B:1286:A:C2	1:B:1287:A:N6	2.42	0.87
1:B:2111:U:H6	1:B:2112:G:O5'	1.43	0.87
1:B:2114:A:H5'	1:B:2121:G:OP2	1.72	0.87
1:B:2289:G:H1	1:B:2343:U:H3	1.22	0.87
1:B:2819:G:H2'	1:B:2820:A:C5'	2.05	0.87
1:B:446:G:O6	1:B:465:G:C6	2.27	0.87
1:B:507:A:C2	1:B:518:G:C5'	2.53	0.87
1:B:577:G:H1'	1:B:2019:A:N7	1.88	0.87
1:B:641:U:H3	1:B:647:G:H1	1.22	0.87
1:B:914:G:O2'	1:B:917:A:H8	1.56	0.87
1:B:1022:G:N2	1:B:2482:A:C8	2.42	0.87
1:B:1042:G:H1	1:B:1113:U:H3	1.22	0.87
1:B:1116:G:H5'	1:B:2749:A:H3'	0.89	0.87
1:B:1752:C:H5"	1:B:1988:G:P	2.14	0.87
1:B:2060:A:N6	1:B:2448:A:H1'	1.90	0.87
1:B:2083:G:H1	1:B:2236:U:H3	1.22	0.87
1:B:2405:G:C5'	1:B:2405:G:H4'	2.03	0.87
1:B:2819:G:H2'	1:B:2820:A:O5'	1.74	0.87
1:B:471:A:C2	1:B:677:A:C8	2.63	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:839:U:H3	1:B:939:G:H1	1.22	0.87
1:B:1356:G:H1	1:B:1375:U:H3	1.22	0.87
1:B:1425:G:C3'	1:B:1567:G:H8	1.88	0.87
1:B:1464:G:H21	1:B:1466:U:H1'	1.37	0.87
1:B:1570:A:C2	1:B:1572:A:O3'	2.27	0.87
1:B:1631:G:O3'	1:B:1632:A:C8	2.28	0.87
1:B:1791:A:C3'	1:B:1942:C:C6	2.57	0.87
1:B:1853:A:C2'	1:B:1888:G:H8	1.58	0.87
1:B:2086:U:O2'	1:B:2087:G:C8	2.04	0.87
1:B:2324:U:H3	1:B:2331:G:H1	1.22	0.87
1:B:2497:A:O3'	1:B:2657:A:C2	2.26	0.87
1:B:94:A:C4'	1:B:95:A:C8	2.58	0.87
1:B:232:G:OP2	1:B:234:U:C5'	2.23	0.87
1:B:318:C:C5'	1:B:319:G:N7	2.16	0.87
1:B:402:A:H5"	1:B:403:U:O4	1.75	0.87
1:B:411:G:H4'	1:B:2406:A:C2'	2.05	0.87
1:B:502:A:OP1	1:B:506:G:H5"	1.74	0.87
1:B:711:G:H1	1:B:720:U:H3	1.22	0.87
1:B:810:U:C1'	1:B:1196:C:H41	1.88	0.87
1:B:1016:G:OP1	1:B:2753:A:H2'	1.74	0.87
1:B:1025:G:H5'	1:B:2469:A:H2	1.30	0.87
1:B:1111:A:OP2	1:B:1111:A:H4'	1.75	0.87
1:B:1138:G:OP2	1:B:1139:G:H8	1.50	0.87
1:B:1425:G:C2'	1:B:1567:G:O4'	2.23	0.87
1:B:1581:G:H5'	1:B:1628:G:O5'	1.73	0.87
1:B:1707:G:H1	1:B:1751:U:H3	1.22	0.87
1:B:1736:U:OP2	1:B:1739:A:C5'	2.23	0.87
1:B:1770:G:H1	1:B:1982:U:H3	1.22	0.87
1:B:1792:G:H5'	1:B:1942:C:H2'	1.56	0.87
1:B:1853:A:N3	1:B:1854:A:O3'	2.08	0.87
1:B:1907:G:H1	1:B:1923:U:H3	1.22	0.87
1:B:2062:A:H5"	1:B:2063:C:C5	2.09	0.87
1:B:2111:U:N1	1:B:2112:G:C4'	2.38	0.87
1:B:2281:A:H5"	1:B:2282:G:O5'	1.74	0.87
1:B:2402:U:H3	1:B:2414:G:H1	1.22	0.87
1:B:2629:U:H5'	1:B:2631:G:P	2.15	0.87
1:B:2839:G:H1	1:B:2878:U:H3	1.22	0.87
1:B:2851:A:C8	1:B:2871:U:C4	2.62	0.87
1:B:285:G:H1	1:B:355:U:H3	1.22	0.87
1:B:500:G:H2'	1:B:505:A:HO2'	1.36	0.87
1:B:534:U:H3	1:B:559:G:H1	1.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:773:U:H4'	1:B:780:G:N2	1.90	0.87
1:B:802:A:C8	1:B:1252:G:N1	2.43	0.87
1:B:857:G:H5'	1:B:858:G:C8	2.06	0.87
1:B:896:A:C4'	1:B:897:C:H5'	2.05	0.87
1:B:1222:U:H3	1:B:1227:G:H1	1.21	0.87
1:B:1483:G:H1	1:B:1506:U:H3	1.22	0.87
1:B:1842:G:H1	1:B:1898:U:H3	1.22	0.87
1:B:1856:U:C3'	1:B:1886:U:H1'	2.05	0.87
1:B:1862:G:H1	1:B:1880:U:H3	1.22	0.87
1:B:1870:C:H1'	1:B:2159:G:N7	1.90	0.87
1:B:1883:U:C5'	1:B:1884:G:O5'	2.19	0.87
1:B:1931:U:C1'	1:B:1935:G:H1'	2.03	0.87
1:B:1933:G:O3'	1:B:1935:G:H5"	1.75	0.87
1:B:1971:U:C5	1:B:2554:U:O4'	2.28	0.87
1:B:2085:U:H2'	1:B:2086:U:H4'	1.55	0.87
1:B:2483:C:C5'	1:B:2484:G:OP1	2.21	0.87
1:B:2667:C:C2'	1:B:2668:G:C8	2.57	0.87
1:B:2751:G:C5'	1:B:2751:G:H4'	2.05	0.87
1:B:28:A:H1'	1:B:1250:G:P	2.14	0.86
1:B:290:U:H3	1:B:350:G:H1	1.22	0.86
1:B:435:C:O3'	1:B:436:C:O5'	1.92	0.86
1:B:565:C:C6	1:B:836:G:C8	2.57	0.86
1:B:619:G:C1'	1:B:621:A:C4	2.53	0.86
1:B:943:A:H2'	1:B:944:C:C5'	2.05	0.86
1:B:1206:G:H1	1:B:1240:U:H3	1.22	0.86
1:B:1215:G:H1	1:B:1234:U:H3	1.22	0.86
1:B:1288:G:C2'	1:B:1648:U:O2'	2.23	0.86
1:B:1565:C:C2'	1:B:1566:A:H5'	2.04	0.86
1:B:1755:A:H5"	1:B:1764:C:O2'	1.73	0.86
1:B:1856:U:C3'	1:B:1886:U:C1'	2.53	0.86
1:B:1950:G:H1	1:B:1956:U:H3	1.22	0.86
1:B:1967:C:OP2	1:B:1968:G:H5"	1.74	0.86
1:B:2067:G:H5'	1:B:2439:A:OP2	1.75	0.86
1:B:2070:A:H3'	1:B:2071:A:P	2.15	0.86
1:B:2377:A:C3'	1:B:2394:C:C6	2.58	0.86
1:B:2401:U:H3	1:B:2415:G:H1	1.22	0.86
1:B:15:G:C5'	1:B:1197:G:H1'	2.05	0.86
1:B:76:C:N4	1:B:119:A:O2'	2.08	0.86
1:B:94:A:H1'	1:B:95:A:N7	1.89	0.86
1:B:142:A:C1'	1:B:1324:G:N2	2.38	0.86
1:B:249:C:OP2	1:B:249:C:C6	2.28	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:C:H5”	1:B:367:G:O5’	1.74	0.86
1:B:573:U:H3’	1:B:2044:C:O5’	1.73	0.86
1:B:900:A:H2’	1:B:901:C:H5	1.39	0.86
1:B:1197:G:O2’	1:B:1256:G:H1’	1.75	0.86
1:B:1329:U:H4’	1:B:1330:C:C5	2.09	0.86
1:B:1347:A:H5”	1:B:1348:C:C5’	2.05	0.86
1:B:1358:G:H1	1:B:1370:C:N4	1.73	0.86
1:B:1452:G:C5’	1:B:1452:G:C3’	2.52	0.86
1:B:1676:A:H3’	1:B:1677:A:H5’	1.57	0.86
1:B:2212:A:C2’	1:B:2213:U:H5’	2.05	0.86
1:B:2506:U:H3	1:B:2582:G:H1	1.22	0.86
1:B:144:A:H4’	1:B:1327:A:H5”	0.89	0.86
1:B:206:U:O5’	1:B:207:A:C5’	2.23	0.86
1:B:213:A:N1	1:B:218:A:C8	2.43	0.86
1:B:311:A:H5’	1:B:483:A:C6	2.10	0.86
1:B:445:C:H2’	1:B:470:A:C2	2.11	0.86
1:B:448:U:H2’	1:B:478:A:C4	2.10	0.86
1:B:585:G:H3’	1:B:1196:C:O5’	1.74	0.86
1:B:598:U:H3	1:B:659:G:H1	1.22	0.86
1:B:735:A:H4’	1:B:736:C:H6	1.41	0.86
1:B:802:A:N6	1:B:1199:U:H1’	1.89	0.86
1:B:926:G:H4’	1:B:927:A:P	2.15	0.86
1:B:941:A:O5’	1:B:947:A:H5”	1.73	0.86
1:B:1023:U:C2’	1:B:2465:C:N4	2.38	0.86
1:B:1478:G:H1	1:B:1513:U:H3	1.22	0.86
1:B:1626:A:O2’	1:B:1627:G:C5’	2.23	0.86
1:B:1696:G:C5’	1:B:1697:G:C8	2.57	0.86
1:B:1791:A:C3’	1:B:1942:C:H3’	2.05	0.86
1:B:1801:A:C1’	1:B:1816:C:O2’	2.23	0.86
1:B:1827:U:OP1	1:B:1968:G:H3’	1.75	0.86
1:B:1847:A:C4	1:B:2231:U:O2’	2.28	0.86
1:B:1853:A:C4’	1:B:1855:U:C4	2.58	0.86
1:B:2291:U:H3	1:B:2341:G:H1	1.22	0.86
1:B:2689:U:H2’	1:B:2718:G:O6	1.75	0.86
1:B:2849:U:P	1:B:2849:U:HO5’	1.94	0.86
1:B:84:A:N6	1:B:96:C:H42	1.72	0.86
1:B:270:A:C3’	1:B:426:C:O2’	2.22	0.86
1:B:611:C:H3’	1:B:612:G:H5”	1.57	0.86
1:B:859:G:C2	1:B:912:C:C4	2.63	0.86
1:B:867:C:O2	1:B:914:G:H3’	1.74	0.86
1:B:1022:G:H5’	1:B:2463:C:P	2.14	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1288:G:H2'	1:B:1648:U:O2'	1.76	0.86
1:B:1339:G:H5"	1:B:1340:U:OP2	1.75	0.86
1:B:1438:U:H2'	1:B:1439:A:O5'	1.74	0.86
1:B:1449:G:H5"	1:B:1587:G:C4'	2.05	0.86
1:B:1521:G:O6	1:B:1522:A:H1'	1.75	0.86
1:B:1569:A:H8	1:B:1570:A:H3'	0.69	0.86
1:B:1572:A:N6	1:B:1573:G:C4'	2.38	0.86
1:B:1674:G:C2'	1:B:1679:A:O2'	2.24	0.86
1:B:1715:G:H5'	1:B:1738:G:C5	2.10	0.86
1:B:2667:C:H1'	1:B:2668:G:C8	2.10	0.86
1:B:2690:U:H5"	1:B:2691:C:C5	2.10	0.86
1:B:180:G:C5	1:B:198:C:H5"	2.09	0.86
1:B:304:U:H3	1:B:313:G:H1	1.22	0.86
1:B:411:G:H21	1:B:412:A:C4'	1.88	0.86
1:B:507:A:N1	1:B:518:G:H5'	1.89	0.86
1:B:859:G:H4'	1:B:860:U:H6	1.39	0.86
1:B:990:A:O3'	1:B:991:C:O5'	1.93	0.86
1:B:1428:C:O2'	1:B:1429:G:C5'	2.21	0.86
1:B:1932:A:N7	1:B:1937:A:C5'	2.37	0.86
1:B:1935:G:H21	1:B:1939:5MU:H4'	1.40	0.86
1:B:1971:U:H1'	1:B:1973:G:P	2.16	0.86
1:B:2058:A:N6	1:B:2069:7MG:HM71	1.89	0.86
1:B:2132:U:H5	1:B:2133:G:C1'	1.87	0.86
1:B:11:C:H5'	1:B:586:A:H5'	1.55	0.86
1:B:15:G:H5'	1:B:1256:G:H1'	0.89	0.86
1:B:345:A:H4'	1:B:346:A:O5'	1.75	0.86
1:B:606:U:H3	1:B:622:G:H1	1.22	0.86
1:B:1142:A:O5'	1:B:1143:A:C8	2.27	0.86
1:B:1417:C:H6	1:B:1466:U:C6	1.94	0.86
1:B:1471:G:H1	1:B:1520:U:H3	1.22	0.86
1:B:1971:U:O2'	1:B:1972:G:C5'	2.23	0.86
1:B:2009:A:O3'	1:B:2010:G:C5'	2.23	0.86
1:B:2849:U:H5"	1:B:2872:A:H8	1.37	0.86
1:B:87:U:H1'	1:B:497:A:H3'	1.56	0.86
1:B:92:U:O2'	1:B:498:G:C2'	2.22	0.86
1:B:263:G:H5"	1:B:359:G:C2'	2.06	0.86
1:B:332:A:H5"	1:B:333:G:C8	2.09	0.86
1:B:379:G:H1	1:B:395:U:H3	1.22	0.86
1:B:588:U:C3'	1:B:589:U:H5	1.88	0.86
1:B:876:C:H1'	1:B:879:G:N7	1.91	0.86
1:B:940:G:H3'	1:B:941:A:OP1	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1211:C:H5'	1:B:1235:G:C1'	2.05	0.86
1:B:1284:A:C3'	1:B:2012:G:C8	2.57	0.86
1:B:1491:G:O6	1:B:1496:A:C2	2.29	0.86
1:B:1584:U:C2	1:B:1635:A:H5"	2.10	0.86
1:B:1609:A:O3'	1:B:1609:A:C2'	2.24	0.86
1:B:1696:G:C3'	1:B:2703:C:H6	1.89	0.86
1:B:1752:C:C5'	1:B:1988:G:H5'	2.04	0.86
1:B:1799:G:H1	1:B:1820:U:H3	1.22	0.86
1:B:1827:U:C4	1:B:1829:A:H5"	2.11	0.86
1:B:2060:A:C2	1:B:2551:C:H1'	2.11	0.86
1:B:2377:A:C2'	1:B:2394:C:C6	2.58	0.86
1:B:2712:C:OP1	1:B:2713:U:H3'	1.74	0.86
1:B:2848:G:C1'	1:B:2848:G:N9	2.39	0.86
1:B:99:U:N3	1:B:102:U:C5'	2.34	0.86
1:B:457:A:C3'	1:B:458:G:O3'	2.22	0.86
1:B:1302:A:H3'	1:B:1606:C:O2	1.73	0.86
1:B:1769:U:H3	1:B:1983:G:H1	1.22	0.86
1:B:1996:C:O2'	1:B:1997:C:OP1	1.92	0.86
1:B:2042:A:C5'	1:B:2042:A:H4'	2.03	0.86
1:B:2058:A:C6	1:B:2068:U:C2	2.64	0.86
1:B:2648:G:H1	1:B:2672:U:H3	1.22	0.86
1:B:22:C:H5"	1:B:511:U:H2'	1.57	0.86
1:B:64:A:C4	1:B:68:G:N2	2.43	0.86
1:B:318:C:C4'	1:B:319:G:N7	2.38	0.86
1:B:319:G:C3'	1:B:320:A:P	2.64	0.86
1:B:431:U:C5'	1:B:431:U:O4'	2.22	0.86
1:B:601:C:OP1	1:B:602:A:C5'	2.23	0.86
1:B:802:A:H5"	1:B:1253:A:O3'	1.74	0.86
1:B:826:U:H3	1:B:831:G:H1	1.22	0.86
1:B:850:U:C2'	1:B:851:C:O4'	2.22	0.86
1:B:1529:G:H1	1:B:1542:U:H3	1.22	0.86
1:B:1674:G:C5'	1:B:1702:G:OP2	2.24	0.86
1:B:1853:A:C5'	1:B:1857:G:O3'	2.21	0.86
1:B:2284:A:C8	1:B:2388:A:H5'	2.11	0.86
1:B:2374:C:H2'	1:B:2376:A:C5'	2.05	0.86
1:B:2502:G:N2	1:B:2769:U:H5"	1.91	0.86
1:B:2508:G:H1	1:B:2580:U:H3	1.22	0.86
1:B:2849:U:C4'	1:B:2872:A:H8	1.89	0.86
1:B:10:A:H5"	1:B:525:U:O2'	1.75	0.86
1:B:214:G:O2'	1:B:256:A:C2'	2.23	0.86
1:B:227:A:H2	1:B:432:A:H1'	1.33	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1117:C:C4'	1:B:1129:A:H3'	2.04	0.86
1:B:1572:A:C6	1:B:1573:G:C5'	2.58	0.86
1:B:1679:A:H2	1:B:1690:A:H2'	1.40	0.86
1:B:2498:5MC:OP2	1:B:2657:A:N3	2.08	0.86
1:B:72:U:H2'	1:B:114:U:O3'	1.76	0.85
1:B:1348:C:H2'	1:B:1349:C:OP2	1.74	0.85
1:B:1422:G:H1	1:B:1576:U:H3	1.24	0.85
1:B:1553:A:C3'	1:B:1554:U:H5"	2.04	0.85
1:B:1674:G:O4'	1:B:1680:U:H4'	1.75	0.85
1:B:1853:A:C8	1:B:1855:U:H6	1.55	0.85
1:B:2133:G:H5'	1:B:2134:A:N1	1.90	0.85
1:B:2526:G:H1	1:B:2537:U:H3	1.22	0.85
1:B:320:A:H2	1:B:324:A:H8	0.93	0.85
1:B:330:A:C1'	1:B:334:C:O2	2.23	0.85
1:B:377:G:C5'	1:B:403:U:C6	2.59	0.85
1:B:526:A:OP2	1:B:811:U:C2	2.29	0.85
1:B:568:U:C2	1:B:569:U:OP2	2.29	0.85
1:B:744:U:C2	1:B:748:G:H5'	2.10	0.85
1:B:802:A:H2'	1:B:1254:A:C4'	2.05	0.85
1:B:870:U:H3	1:B:907:G:H1	1.22	0.85
1:B:955:U:H3	1:B:962:G:H1	1.22	0.85
1:B:1346:G:O2'	1:B:1348:C:O4'	1.94	0.85
1:B:1570:A:H2'	1:B:1572:A:H5'	1.55	0.85
1:B:1632:A:C2	1:B:1633:G:N7	2.43	0.85
1:B:1737:G:C6	1:B:1739:A:H5"	2.11	0.85
1:B:1855:U:H2'	1:B:1884:G:C2'	2.06	0.85
1:B:1855:U:OP1	1:B:1858:A:N7	2.09	0.85
1:B:1932:A:H8	1:B:1938:A:C5'	1.88	0.85
1:B:1933:G:H5"	1:B:1941:C:C1'	2.06	0.85
1:B:2081:U:H3	1:B:2239:G:H1	1.22	0.85
1:B:2114:A:H8	1:B:2118:U:N3	1.74	0.85
1:B:2211:A:O2'	1:B:2212:A:C8	2.28	0.85
1:B:2345:G:P	1:B:2381:A:H62	1.99	0.85
1:B:2543:G:H5"	1:B:2610:C:N4	1.92	0.85
1:B:2790:U:O3'	1:B:2891:U:H5'	1.76	0.85
1:B:87:U:O2'	1:B:497:A:C5'	2.23	0.85
1:B:111:A:P	1:B:170:U:H5"	2.16	0.85
1:B:124:G:N3	1:B:125:A:C5'	2.39	0.85
1:B:263:G:C5'	1:B:359:G:H2'	2.06	0.85
1:B:882:G:H1	1:B:894:U:H3	1.22	0.85
1:B:941:A:C5'	1:B:947:A:C5'	2.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1579:A:C2	1:B:1580:A:C5'	2.58	0.85
1:B:1610:A:N6	1:B:1613:G:H3'	1.92	0.85
1:B:1933:G:C4'	1:B:1941:C:OP1	2.24	0.85
1:B:1952:A:C3'	1:B:1956:U:O4	2.23	0.85
1:B:2103:C:H4'	1:B:2104:C:OP2	1.75	0.85
1:B:2202:U:H3	1:B:2221:G:H1	1.22	0.85
1:B:2431:U:O2'	1:B:2432:A:H8	1.59	0.85
1:B:2598:A:H2'	1:B:2599:G:O4'	1.75	0.85
1:B:15:G:O5'	1:B:1197:G:N3	2.08	0.85
1:B:75:G:H3'	1:B:119:A:O4'	1.75	0.85
1:B:646:U:H5'	1:B:653:U:H3'	1.58	0.85
1:B:990:A:C3'	1:B:991:C:OP2	2.22	0.85
1:B:1302:A:C3'	1:B:1303:G:OP2	2.25	0.85
1:B:1928:A:H1'	1:B:1936:A:C5'	2.06	0.85
1:B:1932:A:P	1:B:1932:A:HO5'	1.96	0.85
1:B:1940:U:O4	1:B:2553:G:H4'	1.75	0.85
1:B:1971:U:H2'	1:B:1971:U:O2	1.74	0.85
1:B:2060:A:C2	1:B:2447:G:OP1	2.29	0.85
1:B:2438:U:O2'	1:B:2439:A:O5'	1.92	0.85
1:B:2457:U:H3	1:B:2494:G:H1	1.22	0.85
1:B:29:U:H3	1:B:476:G:H1	1.22	0.85
1:B:77:G:C3'	1:B:99:U:C1'	2.50	0.85
1:B:449:A:C5'	1:B:449:A:H4'	2.00	0.85
1:B:585:G:C8	1:B:1195:G:H4'	2.11	0.85
1:B:593:U:H3	1:B:664:G:H1	1.24	0.85
1:B:1427:A:C2'	1:B:1427:A:O3'	2.24	0.85
1:B:1610:A:O4'	1:B:1611:C:C5	2.25	0.85
1:B:1912:A:C2	1:B:1915:5MU:H72	2.12	0.85
1:B:2647:U:H3	1:B:2673:G:H1	1.22	0.85
1:B:2871:U:C5'	1:B:2872:A:P	2.65	0.85
1:B:227:A:H3'	1:B:228:C:H6	1.42	0.85
1:B:284:U:H3	1:B:356:G:H1	1.22	0.85
1:B:366:C:OP2	1:B:368:A:H1'	1.75	0.85
1:B:571:U:H4'	1:B:2619:C:OP2	1.77	0.85
1:B:817:C:H2'	1:B:818:G:O5'	1.76	0.85
1:B:1453:A:C2	1:B:1525:A:H2'	2.11	0.85
1:B:1560:G:H2'	1:B:1561:C:OP1	1.74	0.85
1:B:1676:A:OP2	1:B:1677:A:O3'	1.95	0.85
1:B:1848:A:O3'	1:B:1849:G:O5'	1.95	0.85
1:B:2108:A:C5'	1:B:2110:G:C2'	2.54	0.85
1:B:2140:G:H1	1:B:2151:U:H3	1.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2323:G:N2	1:B:2334:U:H5	1.74	0.85
1:B:2376:A:H2	1:B:2393:U:C2'	1.80	0.85
1:B:2556:C:C4	1:B:2558:C:H5"	2.11	0.85
1:B:2572:A:C5'	1:B:2646:C:H1'	2.07	0.85
1:B:2741:A:C2'	1:B:2742:G:O4'	2.24	0.85
1:B:59:U:H3	1:B:68:G:H1	1.22	0.85
1:B:203:A:C4'	1:B:204:A:OP2	2.25	0.85
1:B:744:U:H2'	1:B:748:G:H4'	1.58	0.85
1:B:751:A:H3'	1:B:752:A:C8	2.12	0.85
1:B:920:A:H8	1:B:921:C:O4'	1.60	0.85
1:B:1472:C:H41	1:B:1515:A:H2	1.24	0.85
1:B:1625:C:C4'	1:B:1643:G:OP1	2.24	0.85
1:B:2062:A:H5"	1:B:2063:C:C4	2.11	0.85
1:B:2062:A:C5'	1:B:2063:C:N4	2.37	0.85
1:B:2433:A:C5'	1:B:2434:A:C8	2.58	0.85
1:B:2451:A:C2	1:B:2562:U:O3'	2.29	0.85
1:B:2790:U:H4'	1:B:2891:U:OP2	1.77	0.85
1:B:2845:U:O2'	1:B:2848:G:N7	2.08	0.85
1:B:2867:G:H2'	1:B:2868:A:N3	1.91	0.85
1:B:84:A:N6	1:B:97:C:N4	2.24	0.85
1:B:449:A:C5'	1:B:452:G:C4	2.59	0.85
1:B:461:C:H41	1:B:479:A:N6	1.74	0.85
1:B:574:A:N7	1:B:2041:U:O3'	2.09	0.85
1:B:618:G:C3'	1:B:619:G:H5"	2.06	0.85
1:B:694:U:H3	1:B:768:G:H1	1.22	0.85
1:B:746:PSU:P	1:B:748:G:H2'	2.16	0.85
1:B:837:C:O2'	1:B:976:G:C8	2.28	0.85
1:B:1289:C:H6	1:B:1648:U:H4'	1.42	0.85
1:B:1847:A:C4'	1:B:1847:A:O3'	2.24	0.85
1:B:2100:G:H1	1:B:2189:U:H3	1.22	0.85
1:B:2321:U:H5"	1:B:2322:A:OP2	1.77	0.85
1:B:2685:G:H1'	1:B:2722:G:N3	1.92	0.85
1:B:2713:U:H2'	1:B:2714:G:H5'	1.58	0.85
1:B:577:G:N2	1:B:2018:G:C2'	2.39	0.85
1:B:881:G:H1	1:B:895:U:H3	1.22	0.85
1:B:1416:G:N2	1:B:1465:G:N3	2.24	0.85
1:B:1674:G:N3	1:B:1680:U:O5'	2.09	0.85
1:B:1853:A:N9	1:B:1888:G:C8	2.44	0.85
1:B:2158:A:C3'	1:B:2159:G:C5'	2.52	0.85
1:B:2320:U:H4'	1:B:2322:A:H5'	1.58	0.85
1:B:82:U:O3'	1:B:84:A:N3	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:137:U:O2'	1:B:1325:U:H5"	1.76	0.85
1:B:138:U:C2	1:B:139:U:C5'	2.60	0.85
1:B:201:C:H3'	1:B:203:A:OP1	1.77	0.85
1:B:217:A:P	1:B:218:A:H4'	2.17	0.85
1:B:1031:G:O6	1:B:1126:A:C8	2.30	0.85
1:B:1347:A:C5'	1:B:1348:C:P	2.64	0.85
1:B:1930:G:H4'	1:B:1931:U:OP2	1.77	0.85
1:B:2273:A:O2'	1:B:2274:A:H5'	1.77	0.85
1:B:2377:A:C3'	1:B:2394:C:H6	1.90	0.85
1:B:2690:U:H5"	1:B:2691:C:H6	1.05	0.85
1:B:2807:U:C1'	1:B:2807:U:C2	2.60	0.85
1:B:67:U:H3'	1:B:68:G:H5"	1.56	0.84
1:B:75:G:C4'	1:B:100:U:C6	2.57	0.84
1:B:93:G:C8	1:B:499:U:P	2.70	0.84
1:B:647:G:H8	1:B:653:U:H5"	1.42	0.84
1:B:744:U:C2'	1:B:748:G:C4'	2.51	0.84
1:B:856:G:C5'	1:B:857:G:OP2	2.24	0.84
1:B:990:A:O4'	1:B:1157:G:OP1	1.95	0.84
1:B:1217:U:H3	1:B:1232:G:H1	1.22	0.84
1:B:1240:U:P	1:B:1241:A:H5'	2.16	0.84
1:B:1313:U:H3	1:B:1339:G:H1	1.22	0.84
1:B:1415:U:H3	1:B:1587:G:H1	1.22	0.84
1:B:1465:G:H4'	1:B:1466:U:C5'	2.07	0.84
1:B:1670:C:C4	1:B:1749:A:O2'	2.30	0.84
1:B:1752:C:H5"	1:B:1988:G:C5'	2.07	0.84
1:B:1882:U:C2	1:B:1883:U:H3'	2.12	0.84
1:B:2042:A:O2'	1:B:2043:C:C6	2.28	0.84
1:B:28:A:C5'	1:B:1250:G:C5'	2.46	0.84
1:B:77:G:O2'	1:B:147:C:OP1	1.94	0.84
1:B:91:A:O3'	1:B:498:G:N7	2.11	0.84
1:B:238:C:N4	1:B:277:G:OP1	2.10	0.84
1:B:602:A:C1'	1:B:604:G:N7	2.40	0.84
1:B:845:A:O4'	1:B:846:U:O4'	1.95	0.84
1:B:859:G:H5"	1:B:860:U:C4	2.10	0.84
1:B:1136:G:O2'	1:B:1137:G:C5'	2.23	0.84
1:B:1289:C:C5'	1:B:1648:U:O3'	2.24	0.84
1:B:1417:C:C1'	1:B:1466:U:C3'	2.46	0.84
1:B:1581:G:H5'	1:B:1628:G:P	2.16	0.84
1:B:1631:G:H2'	1:B:1632:A:N7	1.92	0.84
1:B:1753:G:H5"	1:B:1988:G:C3'	2.07	0.84
1:B:1854:A:P	1:B:1854:A:HO5'	1.97	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2136:G:H1	1:B:2155:U:H3	1.22	0.84
1:B:2575:C:C3’	1:B:2576:G:H5”	2.08	0.84
1:B:29:U:O5’	1:B:1250:G:N2	2.09	0.84
1:B:35:G:H1’	1:B:677:A:N1	1.92	0.84
1:B:222:A:O2’	1:B:224:U:C4	2.29	0.84
1:B:476:G:N7	1:B:477:A:C8	2.46	0.84
1:B:598:U:C5’	1:B:937:C:C4’	2.34	0.84
1:B:783:A:N3	1:B:784:G:C5’	2.40	0.84
1:B:1016:G:H3’	1:B:2753:A:N7	1.91	0.84
1:B:1408:G:H1	1:B:1594:U:H3	1.22	0.84
1:B:1510:G:OP1	1:B:1510:G:C8	2.30	0.84
1:B:1522:A:OP2	1:B:1522:A:N3	2.10	0.84
1:B:1818:U:C5’	1:B:1820:U:OP1	2.25	0.84
1:B:1864:U:H3	1:B:1878:G:H1	1.22	0.84
1:B:2704:C:C5	1:B:2705:A:N7	2.46	0.84
1:B:2849:U:C5’	1:B:2849:U:H4’	2.06	0.84
1:B:2879:A:C4’	1:B:2880:C:C5	2.59	0.84
1:B:574:A:H5”	1:B:2044:C:H5’	0.86	0.84
1:B:933:A:O2’	1:B:934:U:C5	2.30	0.84
1:B:1625:C:O2’	1:B:1643:G:H5”	1.76	0.84
1:B:1674:G:H4’	1:B:1678:A:C6	2.11	0.84
1:B:1716:U:H3	1:B:1743:G:H1	1.22	0.84
1:B:1755:A:C4	1:B:1765:U:H4’	2.12	0.84
1:B:1900:A:H2’	1:B:1901:A:C8	2.13	0.84
1:B:1940:U:C4	1:B:2062:A:N7	2.45	0.84
1:B:1989:G:H4’	1:B:1989:G:H5’	1.59	0.84
1:B:2055:C:H3’	1:B:2056:G:OP1	1.77	0.84
1:B:2382:G:C5’	1:B:2382:G:H4’	2.06	0.84
1:B:2585:U:C1’	1:B:2585:U:C2	2.61	0.84
1:B:2798:U:O3’	1:B:2799:A:H8	1.59	0.84
1:B:2849:U:OP2	1:B:2871:U:H1’	1.76	0.84
1:B:2884:U:OP2	1:B:2890:G:H1’	1.76	0.84
1:B:94:A:C1’	1:B:95:A:N7	2.40	0.84
1:B:196:A:H2’	1:B:198:C:C4	2.13	0.84
1:B:566:U:C1’	1:B:566:U:C2	2.60	0.84
1:B:594:U:H3	1:B:663:G:H1	1.22	0.84
1:B:675:A:C4’	1:B:1250:G:OP2	2.25	0.84
1:B:845:A:H2’	1:B:931:U:H3	1.41	0.84
1:B:850:U:HO3’	1:B:851:C:C5’	1.88	0.84
1:B:1045:C:C4’	1:B:1112:G:N7	2.41	0.84
1:B:1142:A:C2	1:B:1142:A:OP1	2.30	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1205:A:H2'	1:B:1206:G:N7	1.90	0.84
1:B:2058:A:C5	1:B:2069:7MG:HM73	2.11	0.84
1:B:2092:U:HO3'	1:B:2093:G:P	2.01	0.84
1:B:2172:U:C1'	1:B:2172:U:C2	2.60	0.84
1:B:2226:C:H2'	1:B:2227:A:C5'	2.08	0.84
1:B:2873:A:C2'	1:B:2874:C:H5"	2.06	0.84
1:B:2882:A:H2'	1:B:2883:A:N1	1.92	0.84
1:B:67:U:H5	1:B:69:C:OP1	1.53	0.84
1:B:570:G:C2'	1:B:2043:C:OP2	2.25	0.84
1:B:746:PSU:H3'	1:B:747:5MU:H5"	1.60	0.84
1:B:805:G:H2'	1:B:1252:G:OP1	1.78	0.84
1:B:845:A:O3'	1:B:845:A:C4'	2.24	0.84
1:B:940:G:C3'	1:B:941:A:P	2.65	0.84
1:B:1018:U:H5"	1:B:1129:A:P	2.18	0.84
1:B:1348:C:H4'	1:B:1348:C:H5"	1.57	0.84
1:B:1474:U:H3	1:B:1517:G:H1	1.22	0.84
1:B:2135:A:H4'	1:B:2136:G:C5'	2.03	0.84
1:B:2378:A:H5'	1:B:2379:G:H8	1.08	0.84
1:B:2786:U:O3'	1:B:2813:A:C5'	2.25	0.84
1:B:2820:A:H2'	1:B:2821:A:H3'	1.58	0.84
1:B:256:A:OP2	1:B:256:A:C8	2.31	0.84
1:B:365:U:P	1:B:368:A:H8	2.00	0.84
1:B:494:G:N2	1:B:499:U:O4	2.10	0.84
1:B:525:U:C2'	1:B:811:U:H6	1.89	0.84
1:B:807:U:C1'	1:B:807:U:C2	2.61	0.84
1:B:856:G:H5"	1:B:857:G:O5'	1.77	0.84
1:B:913:U:C2	1:B:919:U:O4	2.30	0.84
1:B:1211:C:C4'	1:B:1212:G:H5'	2.08	0.84
1:B:1321:A:C5'	1:B:1323:C:H5"	2.07	0.84
1:B:1376:C:OP2	1:B:1378:A:C2	2.30	0.84
1:B:1420:A:P	1:B:1569:A:H2	2.00	0.84
1:B:1572:A:H62	1:B:1574:C:H5	0.94	0.84
1:B:1582:C:C6	1:B:1633:G:OP2	2.30	0.84
1:B:1690:A:O5'	1:B:1691:C:H5"	1.77	0.84
1:B:1856:U:O3'	1:B:1886:U:C2	2.29	0.84
1:B:2055:C:C5'	1:B:2056:G:OP1	2.24	0.84
1:B:2483:C:H5"	1:B:2484:G:OP1	1.77	0.84
1:B:2752:C:O3'	1:B:2752:C:H3'	1.75	0.84
1:B:53:A:H4'	1:B:53:A:H5'	1.60	0.84
1:B:59:U:O2	1:B:64:A:H2	1.56	0.84
1:B:77:G:C3'	1:B:99:U:H6	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:C:O2	1:B:433:C:OP2	1.94	0.84
1:B:411:G:C8	1:B:2407:A:N6	2.44	0.84
1:B:453:A:O4'	1:B:478:A:C8	2.30	0.84
1:B:459:U:C1'	1:B:459:U:C2	2.60	0.84
1:B:489:G:N9	1:B:510:C:H2'	1.91	0.84
1:B:514:A:O2'	1:B:670:A:C5'	2.26	0.84
1:B:646:U:H4'	1:B:654:A:OP1	1.76	0.84
1:B:846:U:O2	1:B:847:U:C5'	2.25	0.84
1:B:1522:A:O2'	1:B:1528:A:N3	2.10	0.84
1:B:1696:G:O2'	1:B:2702:G:C2'	2.25	0.84
1:B:1853:A:C1'	1:B:1888:G:C8	2.61	0.84
1:B:1942:C:C5'	1:B:1942:C:O4'	2.25	0.84
1:B:2393:U:C1'	1:B:2393:U:C2	2.61	0.84
1:B:2450:A:OP2	1:B:2560:A:OP1	1.96	0.84
1:B:2733:A:H1'	1:B:2777:G:N1	1.93	0.84
1:B:2753:A:H5'	1:B:2754:U:H4'	1.58	0.84
1:B:274:C:H4'	1:B:275:C:OP2	1.77	0.84
1:B:526:A:C2	1:B:527:C:H4'	2.12	0.84
1:B:876:C:N3	1:B:900:A:H5"	1.93	0.84
1:B:1203:U:O2	1:B:1241:A:H5"	1.76	0.84
1:B:1204:A:H2	1:B:1242:U:HO2'	1.22	0.84
1:B:1288:G:C3'	1:B:1648:U:O2'	2.26	0.84
1:B:1572:A:C6	1:B:1574:C:H5	1.95	0.84
1:B:1679:A:C2	1:B:1690:A:H2'	2.13	0.84
1:B:1852:U:H2'	1:B:1885:A:C8	2.13	0.84
1:B:1874:C:C2'	1:B:1877:A:OP1	2.26	0.84
1:B:2322:A:H5"	1:B:2324:U:P	2.16	0.84
1:B:10:A:N6	1:B:810:U:O2	2.10	0.84
1:B:134:G:O2'	1:B:169:G:OP1	1.96	0.84
1:B:227:A:C2	1:B:432:A:C2'	2.61	0.84
1:B:263:G:N7	1:B:361:G:H3'	1.92	0.84
1:B:535:G:H1	1:B:558:U:H3	1.22	0.84
1:B:538:A:H3'	1:B:969:G:OP1	1.77	0.84
1:B:670:A:O3'	1:B:670:A:N3	2.10	0.84
1:B:1032:A:N7	1:B:1127:A:C1'	2.40	0.84
1:B:1396:U:C1'	1:B:1396:U:C2	2.61	0.84
1:B:1418:G:H5"	1:B:1631:G:O6	1.78	0.84
1:B:1427:A:N3	1:B:1430:C:O4'	2.11	0.84
1:B:1848:A:O3'	1:B:1849:G:H5"	1.77	0.84
1:B:1928:A:H5'	1:B:1938:A:P	2.18	0.84
1:B:1934:C:P	1:B:1935:G:C5'	2.66	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1943:U:C6	1:B:1944:U:OP2	2.31	0.84
1:B:2322:A:OP1	1:B:2324:U:H5'	1.78	0.84
1:B:2519:U:H3	1:B:2545:G:H1	1.22	0.84
1:B:237:C:H1'	1:B:428:A:C5	2.13	0.83
1:B:803:U:H3'	1:B:1254:A:O3'	1.78	0.83
1:B:805:G:N2	1:B:1251:C:O3'	2.11	0.83
1:B:871:U:C2'	1:B:872:U:C5	2.59	0.83
1:B:913:U:C4	1:B:917:A:H3'	2.13	0.83
1:B:1040:A:H1'	1:B:1116:G:O6	1.77	0.83
1:B:1189:A:H5"	1:B:1190:G:O4'	1.78	0.83
1:B:1218:G:H1	1:B:1231:U:H3	1.22	0.83
1:B:1290:C:H5"	1:B:1646:C:H4'	0.85	0.83
1:B:1302:A:C2'	1:B:1303:G:OP2	2.26	0.83
1:B:1451:C:C5'	1:B:1526:C:N1	2.41	0.83
1:B:1692:U:H5"	1:B:1698:A:C8	2.13	0.83
1:B:1695:G:C3'	1:B:2703:C:H42	1.91	0.83
1:B:1723:G:H4'	1:B:1724:G:OP2	1.78	0.83
1:B:1790:C:H6	1:B:1970:A:H5'	1.41	0.83
1:B:1928:A:OP2	1:B:1937:A:H5"	1.77	0.83
1:B:2085:U:H2'	1:B:2086:U:C5'	2.07	0.83
1:B:2115:G:N2	1:B:2172:U:H5	1.75	0.83
1:B:2202:U:H5"	1:B:2203:U:H4'	1.60	0.83
1:B:2393:U:C3'	1:B:2395:C:O3'	2.26	0.83
1:B:2629:U:H5'	1:B:2630:G:O3'	1.78	0.83
1:B:2685:G:N2	1:B:2722:G:O3'	2.10	0.83
1:B:2698:U:H3	1:B:2709:G:H1	1.22	0.83
1:B:2753:A:H5"	1:B:2754:U:C5'	2.08	0.83
1:B:2849:U:H4'	1:B:2850:A:C5'	2.08	0.83
1:B:72:U:O2'	1:B:115:C:OP1	1.95	0.83
1:B:139:U:C1'	1:B:139:U:C2	2.61	0.83
1:B:144:A:OP1	1:B:1327:A:C5	2.30	0.83
1:B:263:G:C5'	1:B:359:G:C2'	2.56	0.83
1:B:688:U:H3	1:B:774:G:H1	1.22	0.83
1:B:1035:U:H3	1:B:1120:G:H1	1.22	0.83
1:B:1581:G:C5'	1:B:1629:U:OP2	2.27	0.83
1:B:1818:U:OP2	1:B:1820:U:C5	2.30	0.83
1:B:1825:U:C5'	1:B:1967:C:N4	2.40	0.83
1:B:1933:G:N7	1:B:1938:A:H2'	1.92	0.83
1:B:2377:A:H3'	1:B:2394:C:H6	1.41	0.83
1:B:2563:U:C1'	1:B:2563:U:C2	2.61	0.83
1:B:2640:G:C8	1:B:2777:G:C8	2.66	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2871:U:C1'	1:B:2871:U:C2	2.61	0.83
1:B:2871:U:O5'	1:B:2872:A:O4'	1.95	0.83
1:B:100:U:H5	1:B:118:A:O2'	1.61	0.83
1:B:227:A:H5"	1:B:229:C:N4	1.94	0.83
1:B:452:G:C5'	1:B:453:A:C5'	2.44	0.83
1:B:735:A:C4'	1:B:736:C:C6	2.61	0.83
1:B:906:U:C1'	1:B:906:U:C2	2.61	0.83
1:B:1048:A:H5'	1:B:1049:C:O4'	1.78	0.83
1:B:1284:A:O5'	1:B:2012:G:C1'	2.26	0.83
1:B:1376:C:O3'	1:B:1379:U:C6	2.31	0.83
1:B:1417:C:C5	1:B:1636:U:C4'	2.61	0.83
1:B:1581:G:H2'	1:B:1582:C:C5'	2.07	0.83
1:B:1763:G:C3'	1:B:1764:C:H5"	2.05	0.83
1:B:1932:A:O3'	1:B:1941:C:C6	2.30	0.83
1:B:1933:G:H5'	1:B:1941:C:O5'	1.78	0.83
1:B:1971:U:C5	1:B:2554:U:H5'	2.11	0.83
1:B:2061:G:H21	1:B:2553:G:C5'	1.91	0.83
1:B:2308:G:H2'	1:B:2309:A:H5"	0.90	0.83
1:B:2344:U:H4'	1:B:2372:U:O4	1.77	0.83
1:B:2449:5MU:O3'	1:B:2560:A:C5'	2.25	0.83
1:B:2718:G:H3'	1:B:2720:U:C4	2.11	0.83
1:B:2789:C:N4	1:B:2887:A:N6	2.26	0.83
1:B:2848:G:H5'	1:B:2870:C:O5'	1.78	0.83
1:B:2903:U:C1'	1:B:2903:U:C2	2.61	0.83
1:B:98:G:P	1:B:103:A:O4'	2.37	0.83
1:B:101:A:H8	1:B:102:U:C5	1.94	0.83
1:B:199:A:C2'	1:B:200:U:H5'	2.09	0.83
1:B:207:A:O5'	1:B:208:C:OP1	1.96	0.83
1:B:318:C:H4'	1:B:319:G:C8	2.10	0.83
1:B:471:A:N7	1:B:1250:G:O2'	2.11	0.83
1:B:507:A:N3	1:B:1246:A:OP2	2.12	0.83
1:B:574:A:C8	1:B:2042:A:H5"	2.13	0.83
1:B:668:A:C5'	1:B:669:G:P	2.66	0.83
1:B:675:A:H3'	1:B:676:A:C4	2.13	0.83
1:B:746:PSU:C3'	1:B:747:5MU:H5"	2.09	0.83
1:B:860:U:C3'	1:B:861:A:P	2.66	0.83
1:B:912:C:HO2'	1:B:913:U:P	2.01	0.83
1:B:958:U:C1'	1:B:958:U:C2	2.61	0.83
1:B:1045:C:H4'	1:B:1112:G:N7	1.93	0.83
1:B:1130:U:H2'	1:B:2753:A:P	2.19	0.83
1:B:1168:G:H1	1:B:1181:U:H3	1.22	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1459:G:H1'	1:B:1461:C:OP2	1.78	0.83
1:B:1465:G:H5'	1:B:1466:U:H5'	1.60	0.83
1:B:1584:U:C1'	1:B:1584:U:C2	2.60	0.83
1:B:1675:C:C1'	1:B:1677:A:C2	2.57	0.83
1:B:1814:G:C3'	1:B:1815:A:C2	2.61	0.83
1:B:1938:A:C4'	1:B:1941:C:C5	2.60	0.83
1:B:1938:A:C3'	1:B:1941:C:H5	1.91	0.83
1:B:1944:U:H5'	1:B:2072:C:P	2.17	0.83
1:B:2004:G:OP2	1:B:2005:A:H8	1.62	0.83
1:B:2273:A:H2'	1:B:2274:A:C4'	2.08	0.83
1:B:2466:C:H2'	1:B:2467:C:OP1	1.78	0.83
1:B:2493:U:H5'	1:B:2494:G:C8	2.13	0.83
1:B:2497:A:N3	1:B:2665:A:H4'	1.93	0.83
1:B:2533:U:C1'	1:B:2533:U:C2	2.62	0.83
1:B:2809:A:C8	1:B:2884:U:H1'	2.12	0.83
1:B:2847:U:C1'	1:B:2847:U:C2	2.61	0.83
1:B:76:C:C4	1:B:119:A:O2'	2.25	0.83
1:B:213:A:C5'	1:B:244:A:H5"	2.06	0.83
1:B:608:A:H5'	1:B:608:A:H4'	1.60	0.83
1:B:675:A:H1'	1:B:1249:U:C2'	2.07	0.83
1:B:817:C:H2'	1:B:818:G:C5'	2.07	0.83
1:B:821:A:H4'	1:B:822:G:H8	1.40	0.83
1:B:950:G:H1	1:B:967:U:H3	1.25	0.83
1:B:1240:U:C4	1:B:1241:A:H8	1.95	0.83
1:B:1365:A:H5'	1:B:1368:G:O6	1.78	0.83
1:B:1453:A:C2'	1:B:1525:A:H5"	2.09	0.83
1:B:1714:U:OP2	1:B:1717:A:N6	2.11	0.83
1:B:1753:G:P	1:B:1988:G:H4'	2.19	0.83
1:B:1787:A:H2	1:B:2556:C:OP2	1.58	0.83
1:B:1790:C:O2	1:B:1790:C:H2'	1.77	0.83
1:B:1931:U:C1'	1:B:1931:U:C2	2.61	0.83
1:B:1940:U:C1'	1:B:1940:U:C2	2.61	0.83
1:B:2356:U:C1'	1:B:2356:U:C2	2.61	0.83
1:B:2498:5MC:OP2	1:B:2657:A:C2	2.31	0.83
1:B:2667:C:O2'	1:B:2668:G:C8	2.23	0.83
1:B:2724:U:C1'	1:B:2724:U:C2	2.60	0.83
1:B:28:A:N7	1:B:673:C:O3'	2.11	0.83
1:B:262:A:C4'	1:B:429:A:C5'	2.57	0.83
1:B:375:G:H1	1:B:399:U:H3	1.22	0.83
1:B:449:A:C4'	1:B:452:G:O4'	2.24	0.83
1:B:455:C:H3'	1:B:456:C:H5"	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:464:U:C1'	1:B:464:U:C2	2.62	0.83
1:B:507:A:C4	1:B:518:G:H4'	2.12	0.83
1:B:856:G:C4'	1:B:857:G:P	2.66	0.83
1:B:1457:U:C1'	1:B:1457:U:C2	2.61	0.83
1:B:1625:C:H4'	1:B:1643:G:P	2.18	0.83
1:B:1779:U:O4'	1:B:2556:C:O2'	1.95	0.83
1:B:1906:G:H8	1:B:1927:A:C3'	1.89	0.83
1:B:1978:A:H3'	1:B:1979:U:C5'	2.05	0.83
1:B:2514:U:H3	1:B:2570:G:H1	1.22	0.83
1:B:2725:A:C5'	1:B:2728:U:H5"	2.09	0.83
1:B:2871:U:H4'	1:B:2872:A:C4	2.14	0.83
1:B:239:C:H5	1:B:276:U:H5'	1.38	0.83
1:B:242:G:OP1	1:B:255:A:C8	2.31	0.83
1:B:321:U:P	1:B:324:A:N3	2.52	0.83
1:B:457:A:H3'	1:B:458:G:C3'	2.09	0.83
1:B:576:U:C1'	1:B:576:U:C2	2.62	0.83
1:B:749:A:H1'	1:B:2614:A:N1	1.93	0.83
1:B:762:U:C6	1:B:763:G:H4'	2.13	0.83
1:B:920:A:C3'	1:B:921:C:H5'	2.07	0.83
1:B:1141:U:C1'	1:B:1141:U:C2	2.62	0.83
1:B:1286:A:C2	1:B:2011:U:H1'	2.12	0.83
1:B:1465:G:C4'	1:B:1466:U:C5'	2.56	0.83
1:B:1672:A:H2'	1:B:1673:G:O3'	1.75	0.83
1:B:1782:U:C1'	1:B:1782:U:C2	2.62	0.83
1:B:1856:U:C4'	1:B:1886:U:C1'	2.56	0.83
1:B:1952:A:H61	1:B:2069:7MG:H4'	1.44	0.83
1:B:2060:A:C8	1:B:2448:A:C2	2.67	0.83
1:B:2378:A:OP2	1:B:2394:C:C6	2.32	0.83
1:B:2563:U:H4'	1:B:2564:A:O5'	1.77	0.83
1:B:2566:A:H5"	1:B:2567:G:H8	1.43	0.83
1:B:215:G:O5'	1:B:219:A:C5'	2.26	0.83
1:B:215:G:O5'	1:B:219:A:O5'	1.97	0.83
1:B:445:C:O3'	1:B:470:A:C1'	2.26	0.83
1:B:686:U:C1'	1:B:686:U:C2	2.61	0.83
1:B:931:U:C1'	1:B:931:U:C2	2.62	0.83
1:B:941:A:O5'	1:B:947:A:H5'	1.72	0.83
1:B:1263:U:C1'	1:B:1263:U:C2	2.61	0.83
1:B:1468:U:N3	1:B:1526:C:O3'	2.09	0.83
1:B:1847:A:C4'	1:B:1849:G:OP2	2.26	0.83
1:B:1933:G:H3'	1:B:1941:C:C6	2.13	0.83
1:B:2076:U:C5'	1:B:2077:A:H8	1.81	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2111:U:O2'	1:B:2113:U:O5'	1.95	0.83
1:B:2133:G:H1	1:B:2157:G:H4'	1.44	0.83
1:B:2204:G:H1	1:B:2220:U:H3	1.22	0.83
1:B:2375:G:P	1:B:2413:G:H4'	2.18	0.83
1:B:2637:U:H5"	1:B:2640:G:OP1	1.77	0.83
1:B:2756:U:C1'	1:B:2756:U:C2	2.62	0.83
1:B:221:A:O2'	1:B:222:A:C8	2.31	0.83
1:B:243:U:C1'	1:B:243:U:C2	2.62	0.83
1:B:262:A:H5"	1:B:429:A:O3'	1.79	0.83
1:B:276:U:C1'	1:B:276:U:C2	2.62	0.83
1:B:294:A:H4'	1:B:294:A:H5"	1.61	0.83
1:B:328:U:C1'	1:B:328:U:C2	2.61	0.83
1:B:525:U:C4'	1:B:811:U:H1'	2.08	0.83
1:B:525:U:C1'	1:B:525:U:C2	2.62	0.83
1:B:598:U:C3'	1:B:937:C:H4'	2.08	0.83
1:B:608:A:OP2	1:B:609:A:C2'	2.26	0.83
1:B:695:G:H1	1:B:767:U:H3	1.22	0.83
1:B:695:G:P	1:B:1961:C:H5"	2.18	0.83
1:B:746:PSU:H5"	1:B:747:5MU:H71	0.85	0.83
1:B:762:U:O3'	1:B:763:G:OP2	1.97	0.83
1:B:837:C:C5'	1:B:975:A:H3'	2.08	0.83
1:B:1116:G:C5'	1:B:2749:A:C3'	2.27	0.83
1:B:1213:A:N6	1:B:1234:U:H2'	1.94	0.83
1:B:1451:C:C3'	1:B:1526:C:O4'	2.26	0.83
1:B:1557:C:H2'	1:B:1558:C:C6	2.13	0.83
1:B:1826:G:H4'	1:B:1966:A:H4'	1.57	0.83
1:B:1940:U:C2'	1:B:2062:A:H3'	2.05	0.83
1:B:2075:U:H2'	1:B:2431:U:H3'	1.60	0.83
1:B:2167:U:C1'	1:B:2167:U:C2	2.62	0.83
1:B:2203:U:C1'	1:B:2203:U:C2	2.62	0.83
1:B:2852:G:H1	1:B:2865:U:H3	1.22	0.83
1:B:28:A:H2	1:B:674:G:O3'	1.61	0.83
1:B:389:G:C5'	1:B:405:U:N3	2.40	0.83
1:B:446:G:H5"	1:B:472:A:H5"	1.57	0.83
1:B:635:C:OP1	1:B:638:G:O4'	1.97	0.83
1:B:792:A:H62	1:B:795:C:H41	0.87	0.83
1:B:932:U:C1'	1:B:932:U:C2	2.62	0.83
1:B:1023:U:C1'	1:B:1023:U:C2	2.61	0.83
1:B:1348:C:O2'	1:B:1349:C:C6	1.98	0.83
1:B:1379:U:C1'	1:B:1379:U:C2	2.62	0.83
1:B:1449:G:C5'	1:B:1587:G:C4'	2.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1829:A:C8	1:B:1970:A:OP1	2.32	0.83
1:B:1853:A:O3'	1:B:1888:G:C8	2.30	0.83
1:B:1932:A:H4'	1:B:1932:A:H5"	1.58	0.83
1:B:2058:A:N1	1:B:2069:7MG:CM7	2.37	0.83
1:B:2504:U:H3	1:B:2580:U:H5	1.27	0.83
1:B:2809:A:N3	1:B:2810:A:H1'	1.93	0.83
1:B:2820:A:HO2'	1:B:2821:A:C5'	1.91	0.83
1:B:411:G:C3'	1:B:2406:A:C8	2.61	0.82
1:B:639:U:H3	1:B:649:G:H1	1.24	0.82
1:B:745:7MG:O3'	1:B:748:G:H2'	1.79	0.82
1:B:1047:G:O5'	1:B:1049:C:O2'	1.97	0.82
1:B:1116:G:C2'	1:B:1117:C:O4'	2.27	0.82
1:B:1249:U:C1'	1:B:1249:U:C2	2.62	0.82
1:B:1497:U:C5'	1:B:1498:C:OP2	2.26	0.82
1:B:1852:U:H2'	1:B:1885:A:H8	1.39	0.82
1:B:1932:A:O5'	1:B:1941:C:N3	2.11	0.82
1:B:1932:A:H4'	1:B:1941:C:O2	1.78	0.82
1:B:2108:A:P	1:B:2110:G:H2'	2.18	0.82
1:B:2322:A:OP1	1:B:2324:U:C5'	2.27	0.82
1:B:2493:U:C5'	1:B:2494:G:H8	1.91	0.82
1:B:61:C:O2	1:B:496:G:OP1	1.96	0.82
1:B:98:G:O2'	1:B:101:A:O2'	1.96	0.82
1:B:140:C:C3'	1:B:141:G:N3	2.42	0.82
1:B:165:A:C8	1:B:166:U:C5	2.67	0.82
1:B:202:U:C1'	1:B:202:U:C2	2.63	0.82
1:B:221:A:C4	1:B:279:A:OP1	2.32	0.82
1:B:242:G:H5'	1:B:255:A:OP2	1.79	0.82
1:B:335:C:C4'	1:B:341:C:N4	2.31	0.82
1:B:411:G:C2'	1:B:2406:A:C8	2.62	0.82
1:B:526:A:C2	1:B:527:C:C5'	2.62	0.82
1:B:529:A:C5'	1:B:530:G:N7	2.42	0.82
1:B:647:G:C8	1:B:653:U:C5'	2.62	0.82
1:B:866:A:N3	1:B:915:C:O2	2.12	0.82
1:B:896:A:O2'	1:B:897:C:C6	2.22	0.82
1:B:971:G:H1'	1:B:972:A:N1	1.93	0.82
1:B:1128:G:C5'	1:B:2751:G:O2'	2.27	0.82
1:B:1551:A:H3'	1:B:1552:A:O4'	1.78	0.82
1:B:1570:A:N3	1:B:1572:A:O5'	2.12	0.82
1:B:1605:C:C6	1:B:1665:A:H5"	2.14	0.82
1:B:1870:C:C5	1:B:1872:A:C6	2.66	0.82
1:B:1891:G:C5'	1:B:1892:C:C5	2.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1931:U:H5”	1:B:1935:G:OP1	1.78	0.82
1:B:1936:A:C3’	1:B:1938:A:H3’	2.09	0.82
1:B:1942:C:C1’	1:B:1942:C:C2	2.62	0.82
1:B:1991:U:OP2	1:B:1992:G:H8	1.61	0.82
1:B:2273:A:H2’	1:B:2274:A:C5’	2.09	0.82
1:B:2431:U:C1’	1:B:2431:U:C2	2.63	0.82
1:B:2438:U:C2’	1:B:2439:A:C5’	2.57	0.82
1:B:2496:C:H2’	1:B:2497:A:C4’	2.08	0.82
1:B:2704:C:N4	1:B:2705:A:C6	2.47	0.82
1:B:2726:A:C3’	1:B:2727:A:C5’	2.54	0.82
1:B:2845:U:H5’	1:B:2868:A:H1’	1.61	0.82
1:B:92:U:C5’	1:B:499:U:OP2	2.27	0.82
1:B:562:U:C1’	1:B:562:U:C2	2.63	0.82
1:B:758:C:O2’	1:B:1950:G:P	2.36	0.82
1:B:887:U:C1’	1:B:887:U:C2	2.62	0.82
1:B:926:G:H2’	1:B:928:A:C8	2.14	0.82
1:B:1018:U:H5”	1:B:1129:A:OP1	1.79	0.82
1:B:1128:G:N2	1:B:2751:G:O3’	2.12	0.82
1:B:1233:C:OP2	1:B:1236:G:H3’	1.77	0.82
1:B:1312:U:C1’	1:B:1312:U:C2	2.62	0.82
1:B:1391:U:C1’	1:B:1391:U:C2	2.63	0.82
1:B:1552:A:H8	1:B:1552:A:OP2	1.62	0.82
1:B:1737:G:C2	1:B:1738:G:H5’	2.14	0.82
1:B:1853:A:OP1	1:B:1857:G:C8	2.32	0.82
1:B:1952:A:H2	1:B:1954:G:OP2	1.61	0.82
1:B:2052:A:H5”	1:B:2608:G:C5’	2.01	0.82
1:B:2448:A:H2’	1:B:2449:5MU:H1’	1.58	0.82
1:B:2713:U:C3’	1:B:2714:G:OP1	2.27	0.82
1:B:2739:U:C1’	1:B:2739:U:C2	2.62	0.82
1:B:2859:G:C8	1:B:2860:A:C8	2.66	0.82
1:B:77:G:C3’	1:B:99:U:C6	2.62	0.82
1:B:91:A:C2’	1:B:498:G:N7	2.41	0.82
1:B:387:U:C1’	1:B:387:U:C2	2.62	0.82
1:B:501:A:C2’	1:B:505:A:HO2’	1.93	0.82
1:B:573:U:C1’	1:B:573:U:C2	2.62	0.82
1:B:615:U:C1’	1:B:615:U:C2	2.63	0.82
1:B:844:A:C4’	1:B:847:U:H5	1.93	0.82
1:B:1024:G:O2’	1:B:2469:A:C2	2.30	0.82
1:B:1174:U:C1’	1:B:1174:U:C2	2.63	0.82
1:B:1225:G:O3’	1:B:1226:A:H8	1.61	0.82
1:B:1236:G:H5”	1:B:1237:A:N7	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1476:U:C1'	1:B:1476:U:C2	2.62	0.82
1:B:1564:C:C4'	1:B:1565:C:C5'	2.52	0.82
1:B:2103:C:H5"	1:B:2104:C:OP2	1.78	0.82
1:B:2169:A:C2'	1:B:2170:A:H5"	2.10	0.82
1:B:2447:G:H4'	1:B:2448:A:OP2	1.77	0.82
1:B:2845:U:H5"	1:B:2868:A:H1'	1.59	0.82
1:B:2849:U:C5	1:B:2871:U:OP2	2.32	0.82
1:B:92:U:H2'	1:B:498:G:C2'	2.06	0.82
1:B:203:A:H5"	1:B:204:A:C8	2.14	0.82
1:B:320:A:H2'	1:B:324:A:H3'	1.59	0.82
1:B:322:A:H3'	1:B:323:C:P	2.19	0.82
1:B:448:U:C6	1:B:474:G:OP1	2.32	0.82
1:B:762:U:H1'	1:B:763:G:H4'	1.58	0.82
1:B:762:U:H5"	1:B:1950:G:C5'	2.02	0.82
1:B:778:G:OP2	1:B:779:U:H1'	1.77	0.82
1:B:896:A:HO2'	1:B:897:C:H6	1.05	0.82
1:B:990:A:C1'	1:B:1157:G:OP1	2.26	0.82
1:B:1050:A:H4'	1:B:1051:G:H5"	1.55	0.82
1:B:1130:U:C1'	1:B:1130:U:C2	2.61	0.82
1:B:1176:U:C1'	1:B:1176:U:C2	2.62	0.82
1:B:1203:U:C1'	1:B:1203:U:C2	2.62	0.82
1:B:1251:C:H2'	1:B:1252:G:OP2	1.78	0.82
1:B:1253:A:C4'	1:B:1254:A:H8	1.92	0.82
1:B:1282:U:C1'	1:B:1282:U:C2	2.61	0.82
1:B:1283:G:O3'	1:B:2012:G:C2'	2.28	0.82
1:B:1312:U:C3'	1:B:1313:U:H5'	2.05	0.82
1:B:1534:U:C1'	1:B:1534:U:C2	2.62	0.82
1:B:1670:C:N3	1:B:1749:A:O2'	2.12	0.82
1:B:1693:U:H3'	1:B:1694:C:C6	2.15	0.82
1:B:1758:U:C1'	1:B:1758:U:C2	2.61	0.82
1:B:1856:U:C1'	1:B:1856:U:C2	2.63	0.82
1:B:2013:A:C5'	1:B:2014:A:N7	2.39	0.82
1:B:2028:U:C1'	1:B:2028:U:C2	2.62	0.82
1:B:2132:U:C1'	1:B:2132:U:C2	2.62	0.82
1:B:2166:U:C1'	1:B:2166:U:C2	2.62	0.82
1:B:2689:U:C1'	1:B:2689:U:C2	2.63	0.82
1:B:2857:G:H5'	1:B:2858:C:OP2	1.80	0.82
1:B:268:C:H4'	1:B:269:C:O5'	1.78	0.82
1:B:499:U:C2	1:B:500:G:N3	2.48	0.82
1:B:801:G:H5'	1:B:802:A:C8	2.14	0.82
1:B:961:C:H3'	1:B:962:G:C5'	2.05	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1046:A:H3'	1:B:1049:C:O3'	1.79	0.82
1:B:1130:U:H5"	1:B:2749:A:C8	2.13	0.82
1:B:1188:U:C1'	1:B:1188:U:C2	2.62	0.82
1:B:1224:U:C1'	1:B:1224:U:C2	2.62	0.82
1:B:1242:U:C1'	1:B:1242:U:C2	2.62	0.82
1:B:1302:A:C2	1:B:1607:C:C5'	2.62	0.82
1:B:1359:A:N6	1:B:1371:G:C5'	2.38	0.82
1:B:1573:G:N2	1:B:1632:A:H1'	1.94	0.82
1:B:1932:A:H3'	1:B:1941:C:C2'	2.08	0.82
1:B:2072:C:O2'	1:B:2439:A:N6	2.11	0.82
1:B:2165:C:H4'	1:B:2168:G:N2	1.93	0.82
1:B:2180:U:C1'	1:B:2180:U:C2	2.63	0.82
1:B:2334:U:C1'	1:B:2334:U:C2	2.62	0.82
1:B:2790:U:C1'	1:B:2790:U:C2	2.62	0.82
1:B:11:C:C6	1:B:1195:G:C8	2.67	0.82
1:B:62:U:C1'	1:B:62:U:C2	2.63	0.82
1:B:90:U:C1'	1:B:90:U:C2	2.62	0.82
1:B:501:A:C2'	1:B:505:A:O2'	2.28	0.82
1:B:545:U:C1'	1:B:545:U:C2	2.62	0.82
1:B:546:U:C1'	1:B:546:U:C2	2.63	0.82
1:B:1272:A:O4'	1:B:1649:G:C5'	2.27	0.82
1:B:1352:U:C1'	1:B:1352:U:C2	2.63	0.82
1:B:1417:C:C6	1:B:1636:U:H4'	2.15	0.82
1:B:1451:C:C4'	1:B:1526:C:O4'	2.25	0.82
1:B:1546:G:C2'	1:B:1547:C:C5'	2.57	0.82
1:B:1781:U:C1'	1:B:1781:U:C2	2.63	0.82
1:B:1847:A:C6	1:B:2232:C:C5'	2.62	0.82
1:B:1849:G:N7	1:B:1889:A:C2	2.47	0.82
1:B:2061:G:C2	1:B:2553:G:H3'	2.14	0.82
1:B:2492:U:O3'	1:B:2494:G:OP1	1.97	0.82
1:B:2820:A:O2'	1:B:2821:A:O5'	1.95	0.82
1:B:50:U:C1'	1:B:50:U:C2	2.62	0.82
1:B:78:U:P	1:B:99:U:C6	2.72	0.82
1:B:100:U:O2'	1:B:101:A:N1	2.07	0.82
1:B:137:U:H1'	1:B:1325:U:H5"	1.62	0.82
1:B:206:U:O5'	1:B:207:A:H5'	1.80	0.82
1:B:487:C:O4'	1:B:505:A:H3'	1.80	0.82
1:B:567:U:C1'	1:B:567:U:C2	2.62	0.82
1:B:847:U:C1'	1:B:847:U:C2	2.62	0.82
1:B:916:G:O3'	1:B:916:G:C2'	2.28	0.82
1:B:1235:G:H21	1:B:1236:G:H1	1.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1497:U:C1'	1:B:1497:U:C2	2.62	0.82
1:B:1559:U:C1'	1:B:1559:U:C2	2.62	0.82
1:B:1585:C:H4'	1:B:1586:A:C5'	2.10	0.82
1:B:1833:C:H2'	1:B:1931:U:H4'	1.60	0.82
1:B:1855:U:C5'	1:B:1855:U:H4'	2.08	0.82
1:B:1931:U:O3'	1:B:1931:U:H3'	1.76	0.82
1:B:2034:U:C1'	1:B:2034:U:C2	2.63	0.82
1:B:2113:U:C1'	1:B:2113:U:C2	2.62	0.82
1:B:2185:U:C1'	1:B:2185:U:C2	2.63	0.82
1:B:2390:U:C1'	1:B:2390:U:C2	2.63	0.82
1:B:2404:U:OP2	1:B:2405:G:C1'	2.27	0.82
1:B:2473:U:C1'	1:B:2473:U:C2	2.63	0.82
1:B:2500:U:C1'	1:B:2500:U:C2	2.63	0.82
1:B:2846:G:O5'	1:B:2848:G:O4'	1.95	0.82
1:B:2891:U:C1'	1:B:2891:U:C2	2.62	0.82
1:B:10:A:N6	1:B:810:U:C2'	2.43	0.82
1:B:15:G:H5"	1:B:1197:G:N9	1.94	0.82
1:B:63:A:H2'	1:B:64:A:N6	1.94	0.82
1:B:76:C:H5	1:B:119:A:C3'	1.76	0.82
1:B:76:C:H42	1:B:112:U:H5"	1.41	0.82
1:B:112:U:C1'	1:B:112:U:C2	2.61	0.82
1:B:216:A:C5'	1:B:218:A:C1'	2.44	0.82
1:B:230:G:C2	1:B:432:A:H5'	2.14	0.82
1:B:266:G:H5"	1:B:368:A:C4'	2.08	0.82
1:B:499:U:C1'	1:B:499:U:C2	2.61	0.82
1:B:565:C:C5'	1:B:836:G:N7	2.42	0.82
1:B:642:U:C1'	1:B:642:U:C2	2.63	0.82
1:B:757:G:N2	1:B:1951:U:OP2	2.13	0.82
1:B:758:C:O2'	1:B:1950:G:OP1	1.98	0.82
1:B:792:A:N6	1:B:795:C:N4	2.20	0.82
1:B:830:G:H5"	1:B:831:G:OP2	1.79	0.82
1:B:916:G:C3'	1:B:917:A:C5'	2.53	0.82
1:B:1061:U:O4'	1:B:1070:A:H1'	1.79	0.82
1:B:1210:G:H21	1:B:1212:G:H2'	1.44	0.82
1:B:1394:U:C1'	1:B:1394:U:C2	2.62	0.82
1:B:1397:U:C1'	1:B:1397:U:C2	2.63	0.82
1:B:1510:G:H4'	1:B:1511:G:H8	1.44	0.82
1:B:1602:U:C1'	1:B:1602:U:C2	2.62	0.82
1:B:1754:A:H5'	1:B:1988:G:N2	1.94	0.82
1:B:1818:U:C1'	1:B:1818:U:C2	2.62	0.82
1:B:1827:U:O4	1:B:1829:A:H5"	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1934:C:OP2	1:B:1941:C:H1'	1.79	0.82
1:B:2210:U:C1'	1:B:2210:U:C2	2.63	0.82
1:B:2377:A:N7	1:B:2394:C:H2'	1.94	0.82
1:B:2477:U:C1'	1:B:2477:U:C2	2.62	0.82
1:B:2556:C:C4'	1:B:2557:G:C4'	2.50	0.82
1:B:2626:C:C1'	1:B:2626:C:C2	2.63	0.82
1:B:2734:A:C3'	1:B:2735:G:C5'	2.47	0.82
1:B:32:C:C4	1:B:33:C:H5	1.96	0.82
1:B:92:U:C1'	1:B:92:U:C2	2.61	0.82
1:B:255:A:OP1	1:B:255:A:C4	2.32	0.82
1:B:294:A:O5'	1:B:295:G:P	2.38	0.82
1:B:377:G:H5"	1:B:403:U:C6	2.14	0.82
1:B:1311:G:H4'	1:B:1642:G:OP1	1.79	0.82
1:B:1609:A:H2'	1:B:1610:A:P	2.20	0.82
1:B:1675:C:O2	1:B:1677:A:H2'	1.79	0.82
1:B:1680:U:H5"	1:B:1701:A:OP2	1.80	0.82
1:B:1852:U:C5'	1:B:1886:U:O4	2.27	0.82
1:B:1886:U:C6	1:B:1886:U:P	2.72	0.82
1:B:1970:A:C5'	1:B:1970:A:O4'	2.26	0.82
1:B:2023:C:H2'	1:B:2024:G:C8	2.15	0.82
1:B:2197:U:C1'	1:B:2197:U:C2	2.63	0.82
1:B:2245:U:C1'	1:B:2245:U:C2	2.62	0.82
1:B:2249:U:H3	1:B:2255:G:H1	1.24	0.82
1:B:2607:G:C8	1:B:2608:G:OP1	2.33	0.82
1:B:2753:A:C5'	1:B:2754:U:H5"	2.10	0.82
1:B:28:A:C8	1:B:673:C:O2'	2.33	0.81
1:B:71:A:O5'	1:B:105:C:H5"	1.80	0.81
1:B:262:A:C3'	1:B:430:A:C5'	2.52	0.81
1:B:322:A:O3'	1:B:323:C:OP1	1.97	0.81
1:B:339:U:C1'	1:B:339:U:C2	2.62	0.81
1:B:449:A:H5"	1:B:478:A:P	2.19	0.81
1:B:577:G:H21	1:B:2018:G:C2'	1.88	0.81
1:B:652:U:C1'	1:B:652:U:C2	2.62	0.81
1:B:728:G:H2'	1:B:729:G:H5"	1.61	0.81
1:B:837:C:C4'	1:B:975:A:H3'	2.09	0.81
1:B:1289:C:C1'	1:B:1648:U:H4'	2.10	0.81
1:B:1341:G:H5"	1:B:1400:U:C5'	2.09	0.81
1:B:1522:A:O3'	1:B:1528:A:N3	2.12	0.81
1:B:1728:C:HO2'	1:B:1729:U:H5	1.23	0.81
1:B:1856:U:C3'	1:B:1886:U:N1	2.36	0.81
1:B:1941:C:P	1:B:2062:A:C2'	2.68	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2199:A:H2'	1:B:2200:C:C4'	2.10	0.81
1:B:2284:A:N7	1:B:2388:A:C4'	2.41	0.81
1:B:2819:G:H3'	1:B:2820:A:H3'	1.62	0.81
1:B:144:A:O2'	1:B:1327:A:P	2.38	0.81
1:B:201:C:H2'	1:B:202:U:C3'	2.10	0.81
1:B:319:G:C4'	1:B:320:A:P	2.67	0.81
1:B:383:C:C2'	1:B:391:A:H61	1.92	0.81
1:B:489:G:C8	1:B:490:C:C5	2.67	0.81
1:B:619:G:H5'	1:B:620:G:OP1	1.80	0.81
1:B:667:U:H4'	1:B:669:G:O3'	1.80	0.81
1:B:840:C:C4'	1:B:962:G:O2'	2.27	0.81
1:B:1267:U:C1'	1:B:1267:U:C2	2.63	0.81
1:B:1325:U:C1'	1:B:1325:U:C2	2.62	0.81
1:B:1390:U:C1'	1:B:1390:U:C2	2.63	0.81
1:B:1557:C:C2'	1:B:1558:C:C5	2.63	0.81
1:B:1620:G:C3'	1:B:1621:U:P	2.68	0.81
1:B:1630:A:H3'	1:B:1631:G:H5"	0.87	0.81
1:B:1664:A:C8	1:B:1758:U:C5'	2.63	0.81
1:B:1847:A:C5	1:B:2232:C:H5'	2.15	0.81
1:B:1851:U:C1'	1:B:1851:U:C2	2.63	0.81
1:B:2109:U:C1'	1:B:2109:U:C2	2.63	0.81
1:B:2305:U:C1'	1:B:2305:U:C2	2.63	0.81
1:B:2374:C:C3'	1:B:2413:G:H5"	2.10	0.81
1:B:2528:U:H5"	1:B:2529:G:OP2	1.80	0.81
1:B:2667:C:HO2'	1:B:2668:G:H8	1.02	0.81
1:B:2719:G:H4'	1:B:2720:U:H5'	1.60	0.81
1:B:2809:A:H1'	1:B:2810:A:O4'	1.81	0.81
1:B:23:G:C1'	1:B:508:A:H5'	2.08	0.81
1:B:28:A:H8	1:B:673:C:C2'	1.89	0.81
1:B:76:C:H3'	1:B:120:U:OP2	1.80	0.81
1:B:101:A:N1	1:B:105:C:OP2	2.14	0.81
1:B:211:C:H1'	1:B:213:A:N3	1.95	0.81
1:B:231:A:C5'	1:B:232:G:OP1	2.28	0.81
1:B:240:C:C5'	1:B:275:C:C5'	2.57	0.81
1:B:377:G:H5'	1:B:403:U:C5	2.16	0.81
1:B:405:U:C1'	1:B:405:U:C2	2.62	0.81
1:B:588:U:HO2'	1:B:589:U:H5	0.97	0.81
1:B:714:U:C1'	1:B:714:U:C2	2.62	0.81
1:B:920:A:H5"	1:B:921:C:C6	2.15	0.81
1:B:961:C:C3'	1:B:962:G:H5'	2.08	0.81
1:B:983:A:N7	1:B:984:A:C6	2.47	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1012:U:C1’	1:B:1012:U:C2	2.63	0.81
1:B:1116:G:H2’	1:B:1117:C:O4’	1.80	0.81
1:B:1340:U:C1’	1:B:1340:U:C2	2.63	0.81
1:B:1353:A:H5”	1:B:1354:A:OP1	1.80	0.81
1:B:1417:C:C2’	1:B:1635:A:H2	1.86	0.81
1:B:1641:A:C2’	1:B:1642:G:H5’	2.09	0.81
1:B:1672:A:C2’	1:B:1673:G:C3’	2.57	0.81
1:B:1826:G:H5”	1:B:1967:C:P	2.20	0.81
1:B:1828:G:C3’	1:B:1829:A:OP1	2.27	0.81
1:B:1847:A:C5’	1:B:1847:A:C3’	2.56	0.81
1:B:1856:U:H3	1:B:1885:A:H5”	1.45	0.81
1:B:2016:U:C1’	1:B:2016:U:C2	2.63	0.81
1:B:2060:A:O2’	1:B:2557:G:N2	2.14	0.81
1:B:2117:A:C4	1:B:2172:U:C5	2.68	0.81
1:B:2130:U:C1’	1:B:2130:U:C2	2.63	0.81
1:B:2213:U:C1’	1:B:2213:U:C2	2.63	0.81
1:B:2391:G:C8	1:B:2397:G:H4’	2.16	0.81
1:B:2423:U:C1’	1:B:2423:U:C2	2.63	0.81
1:B:2493:U:C6	1:B:2498:5MC:O2’	2.32	0.81
1:B:2497:A:H2’	1:B:2665:A:C1’	2.10	0.81
1:B:2503:A:O4’	1:B:2504:U:C6	2.32	0.81
1:B:2609:U:C1’	1:B:2609:U:C2	2.62	0.81
1:B:2713:U:C1’	1:B:2713:U:C2	2.63	0.81
1:B:2879:A:H4’	1:B:2880:C:C6	2.15	0.81
1:B:2884:U:C1’	1:B:2884:U:C2	2.63	0.81
1:B:2884:U:OP1	1:B:2885:G:H5’	1.79	0.81
1:B:233:A:C6	1:B:235:U:H5”	2.15	0.81
1:B:240:C:C5’	1:B:275:C:O5’	2.28	0.81
1:B:310:A:H3’	1:B:483:A:N6	1.94	0.81
1:B:323:C:H1’	1:B:325:G:C6	2.15	0.81
1:B:574:A:O2’	1:B:2039:U:O3’	1.98	0.81
1:B:806:C:H5”	1:B:1252:G:OP1	1.80	0.81
1:B:867:C:C5’	1:B:868:U:H5	1.92	0.81
1:B:871:U:C1’	1:B:871:U:C2	2.63	0.81
1:B:1033:U:C1’	1:B:1033:U:C2	2.62	0.81
1:B:1312:U:O5’	1:B:1641:A:N1	2.13	0.81
1:B:1458:U:C1’	1:B:1458:U:C2	2.63	0.81
1:B:1647:U:C1’	1:B:1647:U:C2	2.64	0.81
1:B:1671:U:C1’	1:B:1671:U:C2	2.63	0.81
1:B:1782:U:H2’	1:B:1783:A:N9	1.96	0.81
1:B:2061:G:N3	1:B:2553:G:H3’	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2158:A:H3'	1:B:2159:G:H5'	1.42	0.81
1:B:2613:U:C1'	1:B:2613:U:C2	2.63	0.81
1:B:2629:U:C1'	1:B:2629:U:C2	2.62	0.81
1:B:2685:G:C1'	1:B:2722:G:C2'	2.57	0.81
1:B:2703:C:C1'	1:B:2703:C:C2	2.64	0.81
1:B:2779:U:C1'	1:B:2779:U:C2	2.63	0.81
1:B:2818:U:H3	1:B:2828:G:H1	1.22	0.81
1:B:77:G:O3'	1:B:99:U:H6	1.63	0.81
1:B:84:A:OP1	1:B:88:G:H1'	1.79	0.81
1:B:94:A:C4'	1:B:95:A:H8	1.93	0.81
1:B:98:G:O3'	1:B:102:U:H2'	1.79	0.81
1:B:367:G:HO2'	1:B:368:A:H2	0.86	0.81
1:B:390:U:C1'	1:B:390:U:C2	2.62	0.81
1:B:672:C:C4	1:B:1251:C:H5	1.98	0.81
1:B:1416:G:C4'	1:B:1637:A:H5"	2.11	0.81
1:B:1578:U:OP2	1:B:1579:A:C8	2.32	0.81
1:B:1668:A:H4'	1:B:1669:A:O5'	1.80	0.81
1:B:1698:A:H2'	1:B:1699:G:C1'	2.10	0.81
1:B:1792:G:H1	1:B:1827:U:H3	1.22	0.81
1:B:1853:A:H3'	1:B:1888:G:C5'	2.10	0.81
1:B:1963:U:C1'	1:B:1963:U:C2	2.64	0.81
1:B:2050:C:C5'	1:B:2051:A:OP2	2.29	0.81
1:B:2058:A:N1	1:B:2068:U:C2'	2.34	0.81
1:B:2108:A:C5'	1:B:2110:G:H2'	2.11	0.81
1:B:2272:U:C1'	1:B:2272:U:C2	2.63	0.81
1:B:2320:U:C1'	1:B:2320:U:C2	2.62	0.81
1:B:2575:C:C1'	1:B:2575:C:C2	2.63	0.81
1:B:2904:U:C1'	1:B:2904:U:C2	2.61	0.81
1:B:69:C:C4'	1:B:85:G:C4'	2.15	0.81
1:B:135:U:H4'	1:B:169:G:H5'	1.60	0.81
1:B:179:C:H2'	1:B:197:A:OP1	1.80	0.81
1:B:280:U:C1'	1:B:280:U:C2	2.64	0.81
1:B:294:A:C5'	1:B:295:G:P	2.68	0.81
1:B:300:A:O2'	1:B:333:G:OP1	1.97	0.81
1:B:321:U:C1'	1:B:321:U:C2	2.63	0.81
1:B:411:G:N2	1:B:412:A:H3'	1.94	0.81
1:B:569:U:C1'	1:B:569:U:C2	2.62	0.81
1:B:828:U:C1'	1:B:828:U:C2	2.63	0.81
1:B:876:C:C1'	1:B:876:C:C2	2.63	0.81
1:B:876:C:N4	1:B:900:A:C4'	2.44	0.81
1:B:920:A:H5"	1:B:921:C:C5	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1136:G:H2'	1:B:1137:G:H5"	1.62	0.81
1:B:1153:C:OP1	1:B:1156:A:C5	2.33	0.81
1:B:1585:C:H2'	1:B:1585:C:O2	1.80	0.81
1:B:1610:A:O2'	1:B:1611:C:P	2.39	0.81
1:B:1698:A:H2'	1:B:1699:G:H1'	1.59	0.81
1:B:1729:U:C1'	1:B:1729:U:C2	2.63	0.81
1:B:1933:G:O3'	1:B:1935:G:H3'	1.80	0.81
1:B:1937:A:H4'	1:B:1938:A:OP2	1.81	0.81
1:B:1943:U:C5'	1:B:1943:U:H4'	2.10	0.81
1:B:2054:A:OP1	1:B:2055:C:C6	2.32	0.81
1:B:2115:G:H4'	1:B:2122:U:OP2	1.80	0.81
1:B:2452:C:C6	1:B:2517:C:O2'	2.34	0.81
1:B:2690:U:O5'	1:B:2727:A:H1'	1.81	0.81
1:B:23:G:N2	1:B:507:A:O2'	2.14	0.81
1:B:67:U:C4	1:B:69:C:OP1	2.33	0.81
1:B:259:G:H5"	1:B:279:A:C2	2.16	0.81
1:B:271:G:H4'	1:B:2156:G:C6	2.15	0.81
1:B:316:C:C3'	1:B:317:G:P	2.67	0.81
1:B:320:A:C8	1:B:325:G:H5'	2.16	0.81
1:B:329:G:O2'	1:B:335:C:N4	2.13	0.81
1:B:416:U:HO2'	1:B:417:C:H5'	1.00	0.81
1:B:455:C:C5'	1:B:456:C:C5'	2.59	0.81
1:B:532:A:H3'	1:B:533:G:H5'	1.60	0.81
1:B:574:A:C2'	1:B:2039:U:O3'	2.29	0.81
1:B:827:U:C1'	1:B:827:U:C2	2.63	0.81
1:B:990:A:O3'	1:B:991:C:OP2	1.98	0.81
1:B:1130:U:C2	1:B:2754:U:H2'	2.15	0.81
1:B:1273:U:C1'	1:B:1273:U:C2	2.63	0.81
1:B:1305:C:O2'	1:B:1310:G:N1	2.12	0.81
1:B:1329:U:C1'	1:B:1329:U:C2	2.63	0.81
1:B:1438:U:C1'	1:B:1438:U:C2	2.62	0.81
1:B:1802:A:N6	1:B:1813:G:H2'	1.96	0.81
1:B:1928:A:OP1	1:B:1937:A:OP2	1.98	0.81
1:B:1944:U:C1'	1:B:1944:U:C2	2.64	0.81
1:B:2042:A:H3'	1:B:2043:C:C5'	2.10	0.81
1:B:2068:U:C1'	1:B:2068:U:C2	2.63	0.81
1:B:2244:U:C1'	1:B:2244:U:C2	2.62	0.81
1:B:2322:A:O3'	1:B:2322:A:C2'	2.28	0.81
1:B:2345:G:O5'	1:B:2381:A:N6	2.12	0.81
1:B:2350:C:H5"	1:B:2351:G:OP2	1.79	0.81
1:B:2438:U:H2'	1:B:2439:A:C5'	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2684:U:C1'	1:B:2684:U:C2	2.62	0.81
1:B:2789:C:C4	1:B:2890:G:H5'	2.14	0.81
1:B:2820:A:C2'	1:B:2821:A:H3'	2.11	0.81
1:B:45:G:H5"	1:B:46:G:P	2.21	0.81
1:B:179:C:C1'	1:B:179:C:C2	2.63	0.81
1:B:261:G:O3'	1:B:429:A:H4'	1.80	0.81
1:B:509:C:C1'	1:B:509:C:C2	2.64	0.81
1:B:564:C:H2'	1:B:564:C:O2	1.80	0.81
1:B:576:U:H3'	1:B:2019:A:H5"	1.61	0.81
1:B:837:C:H4'	1:B:975:A:O3'	1.79	0.81
1:B:1255:U:C1'	1:B:1255:U:C2	2.64	0.81
1:B:1285:A:H1'	1:B:2012:G:P	2.21	0.81
1:B:1466:U:C1'	1:B:1466:U:C2	2.63	0.81
1:B:1553:A:H2'	1:B:1554:U:H5"	1.61	0.81
1:B:1610:A:C6	1:B:1613:G:H3'	2.15	0.81
1:B:1884:G:O2'	1:B:1885:A:C3'	2.29	0.81
1:B:2058:A:C6	1:B:2068:U:O2	2.34	0.81
1:B:2067:G:C2'	1:B:2068:U:C2	2.63	0.81
1:B:2504:U:C5	1:B:2579:C:OP2	2.34	0.81
1:B:2552:U:C1'	1:B:2552:U:C2	2.63	0.81
1:B:2584:U:C1'	1:B:2584:U:C2	2.63	0.81
1:B:2639:A:C8	1:B:2731:G:H5"	2.16	0.81
1:B:2741:A:H2'	1:B:2742:G:O4'	1.80	0.81
1:B:2849:U:C6	1:B:2872:A:C2'	2.50	0.81
1:B:2849:U:C5'	1:B:2872:A:H8	1.94	0.81
1:B:72:U:O5'	1:B:100:U:O2	1.98	0.81
1:B:99:U:H5'	1:B:102:U:H1'	1.60	0.81
1:B:138:U:C1'	1:B:138:U:C2	2.64	0.81
1:B:233:A:C3'	1:B:234:U:C5'	2.27	0.81
1:B:267:C:H1'	1:B:269:C:C5	2.16	0.81
1:B:905:A:H2'	1:B:906:U:H5'	1.62	0.81
1:B:1000:A:N7	1:B:1150:C:C5	2.48	0.81
1:B:1017:G:OP2	1:B:2753:A:N7	2.13	0.81
1:B:1321:A:O5'	1:B:1323:C:C5'	2.28	0.81
1:B:1476:U:H5"	1:B:1516:G:C5'	2.10	0.81
1:B:1639:C:O2'	1:B:1640:A:C5'	2.29	0.81
1:B:1780:A:C2	1:B:2543:G:N2	2.48	0.81
1:B:1853:A:C4'	1:B:1855:U:N3	2.44	0.81
1:B:1934:C:O5'	1:B:1941:C:O2	1.98	0.81
1:B:1941:C:H2'	1:B:1942:C:OP2	1.81	0.81
1:B:1992:G:H4'	1:B:1993:U:H5'	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2058:A:C6	1:B:2069:7MG:HM72	1.92	0.81
1:B:2233:U:C1'	1:B:2233:U:C2	2.63	0.81
1:B:2497:A:O2'	1:B:2657:A:C6	2.31	0.81
1:B:75:G:C2'	1:B:119:A:H5'	2.10	0.81
1:B:98:G:C1'	1:B:103:A:H3'	2.10	0.81
1:B:142:A:H1'	1:B:1324:G:H21	1.46	0.81
1:B:187:G:H1'	1:B:218:A:H5"	1.63	0.81
1:B:263:G:H1'	1:B:362:A:H5"	1.60	0.81
1:B:457:A:H2'	1:B:459:U:O5'	1.79	0.81
1:B:574:A:N7	1:B:2042:A:O5'	2.13	0.81
1:B:653:U:C1'	1:B:653:U:C2	2.64	0.81
1:B:744:U:C1'	1:B:748:G:H5'	2.10	0.81
1:B:764:A:O2'	1:B:765:C:OP2	1.99	0.81
1:B:802:A:C1'	1:B:1252:G:N2	2.43	0.81
1:B:1049:C:C1'	1:B:1049:C:C2	2.64	0.81
1:B:1173:U:C1'	1:B:1173:U:C2	2.63	0.81
1:B:1335:C:OP1	1:B:1415:U:C3'	2.27	0.81
1:B:1610:A:O2'	1:B:1611:C:OP2	1.99	0.81
1:B:1670:C:C2	1:B:1749:A:O3'	2.34	0.81
1:B:1714:U:C1'	1:B:1714:U:C2	2.64	0.81
1:B:1848:A:N6	1:B:2090:A:N3	2.28	0.81
1:B:1857:G:O3'	1:B:1888:G:H5'	1.81	0.81
1:B:2586:U:C1'	1:B:2586:U:C2	2.62	0.81
1:B:52:A:H5'	1:B:176:A:C5	2.16	0.80
1:B:53:A:O3'	1:B:53:A:H3'	1.79	0.80
1:B:69:C:H5'	1:B:85:G:C5'	2.06	0.80
1:B:100:U:O5'	1:B:101:A:C5	2.33	0.80
1:B:135:U:C5'	1:B:168:G:O3'	2.28	0.80
1:B:214:G:O2'	1:B:219:A:O5'	1.98	0.80
1:B:360:U:C1'	1:B:360:U:C2	2.63	0.80
1:B:452:G:C8	1:B:478:A:O3'	2.34	0.80
1:B:886:A:H2'	1:B:887:U:C5	2.16	0.80
1:B:1023:U:C3'	1:B:2466:C:N4	2.44	0.80
1:B:1480:C:O2'	1:B:1481:U:H5"	1.79	0.80
1:B:1693:U:C1'	1:B:1693:U:C2	2.63	0.80
1:B:1834:U:C1'	1:B:1834:U:C2	2.63	0.80
1:B:1859:U:C1'	1:B:1859:U:C2	2.63	0.80
1:B:1936:A:O3'	1:B:1938:A:H5"	1.81	0.80
1:B:2554:U:C1'	1:B:2554:U:C2	2.65	0.80
1:B:2809:A:O2'	1:B:2810:A:O5'	2.00	0.80
1:B:89:A:H5"	1:B:94:A:H61	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:G:H1'	1:B:256:A:O2'	1.81	0.80
1:B:233:A:H3'	1:B:234:U:H5"	0.82	0.80
1:B:365:U:P	1:B:368:A:H2'	2.21	0.80
1:B:500:G:H5'	1:B:502:A:O3'	1.82	0.80
1:B:538:A:H5'	1:B:968:C:O2'	1.81	0.80
1:B:571:U:C1'	1:B:571:U:C2	2.63	0.80
1:B:776:G:C5'	1:B:776:G:O4'	2.29	0.80
1:B:783:A:H2'	1:B:784:G:H5"	1.58	0.80
1:B:861:A:C4'	1:B:862:G:C8	2.64	0.80
1:B:1224:U:H6	1:B:1224:U:OP2	1.65	0.80
1:B:1240:U:C5	1:B:1241:A:C8	2.65	0.80
1:B:1655:A:H3'	1:B:1656:C:H5'	1.61	0.80
1:B:1737:G:N7	1:B:1739:A:C5'	2.44	0.80
1:B:1860:G:O6	1:B:1884:G:C6	2.34	0.80
1:B:2482:A:H5'	1:B:2484:G:OP2	1.81	0.80
1:B:2528:U:H3'	1:B:2529:G:C5'	2.11	0.80
1:B:2720:U:C1'	1:B:2720:U:C2	2.65	0.80
1:B:2798:U:C1'	1:B:2798:U:C2	2.63	0.80
1:B:15:G:H5"	1:B:1197:G:H1'	1.62	0.80
1:B:93:G:C4	1:B:498:G:H4'	2.15	0.80
1:B:110:G:C2'	1:B:111:A:OP2	2.28	0.80
1:B:188:G:H3'	1:B:191:A:OP1	1.80	0.80
1:B:331:C:C1'	1:B:331:C:C2	2.64	0.80
1:B:373:U:C1'	1:B:373:U:C2	2.62	0.80
1:B:564:C:C1'	1:B:564:C:C2	2.64	0.80
1:B:574:A:C5'	1:B:2044:C:H5"	2.09	0.80
1:B:667:U:C5'	1:B:670:A:OP1	2.29	0.80
1:B:805:G:H2'	1:B:806:C:H5"	1.62	0.80
1:B:837:C:N4	1:B:961:C:N3	2.29	0.80
1:B:1025:G:H22	1:B:1026:G:H8	1.18	0.80
1:B:1045:C:C1'	1:B:1045:C:C2	2.65	0.80
1:B:1523:U:C6	1:B:1528:A:O4'	2.34	0.80
1:B:1572:A:H61	1:B:1573:G:H4'	1.43	0.80
1:B:1585:C:H5'	1:B:1586:A:H5"	1.61	0.80
1:B:1678:A:O2'	1:B:1685:C:N4	2.13	0.80
1:B:1792:G:N7	1:B:1942:C:N3	2.30	0.80
1:B:1852:U:C1'	1:B:1852:U:C2	2.64	0.80
1:B:1926:U:C1'	1:B:1926:U:C2	2.63	0.80
1:B:1955:U:C1'	1:B:1955:U:C2	2.63	0.80
1:B:2320:U:H5"	1:B:2322:A:C4'	2.11	0.80
1:B:11:C:C5'	1:B:586:A:C4'	2.53	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:78:U:C6	1:B:99:U:H5"	2.16	0.80
1:B:411:G:H21	1:B:412:A:C3'	1.94	0.80
1:B:514:A:O3'	1:B:669:G:N2	2.14	0.80
1:B:585:G:C5'	1:B:1196:C:H5'	2.09	0.80
1:B:841:G:OP2	1:B:932:U:N3	2.12	0.80
1:B:906:U:C5'	1:B:907:G:H5'	2.12	0.80
1:B:1040:A:C3'	1:B:1050:A:O2'	2.28	0.80
1:B:1043:C:H2'	1:B:1044:C:C5'	2.09	0.80
1:B:1129:A:H8	1:B:2752:C:C2	2.00	0.80
1:B:1325:U:C5'	1:B:1325:U:H4'	2.07	0.80
1:B:1372:U:C1'	1:B:1372:U:C2	2.63	0.80
1:B:1523:U:C1'	1:B:1523:U:C2	2.64	0.80
1:B:1582:C:H5	1:B:1632:A:C3'	1.93	0.80
1:B:1646:C:C1'	1:B:1646:C:C2	2.65	0.80
1:B:1688:U:C1'	1:B:1688:U:C2	2.63	0.80
1:B:1871:A:C6	1:B:1872:A:H1'	2.16	0.80
1:B:1928:A:C1'	1:B:1936:A:H5'	2.10	0.80
1:B:1934:C:OP2	1:B:1941:C:C1'	2.30	0.80
1:B:1950:G:N2	1:B:1951:U:C1'	2.44	0.80
1:B:2118:U:C1'	1:B:2118:U:C2	2.64	0.80
1:B:2287:A:H4'	1:B:2288:A:C8	2.15	0.80
1:B:2640:G:C8	1:B:2777:G:H8	1.98	0.80
1:B:2797:U:C1'	1:B:2797:U:C2	2.63	0.80
1:B:2849:U:C1'	1:B:2849:U:C2	2.63	0.80
1:B:2902:C:H3'	1:B:2903:U:O5'	1.79	0.80
1:B:86:G:N2	1:B:497:A:C8	2.49	0.80
1:B:158:U:C5	1:B:160:A:N6	2.50	0.80
1:B:183:C:O2'	1:B:185:G:OP2	1.99	0.80
1:B:262:A:H4'	1:B:263:G:OP1	1.80	0.80
1:B:275:C:C1'	1:B:275:C:C2	2.63	0.80
1:B:372:G:N7	1:B:373:U:C6	2.49	0.80
1:B:383:C:C1'	1:B:383:C:C2	2.65	0.80
1:B:545:U:H2'	1:B:546:U:H5	1.46	0.80
1:B:546:U:H2'	1:B:547:A:C8	2.15	0.80
1:B:602:A:H1'	1:B:604:G:N7	1.96	0.80
1:B:637:A:H5'	1:B:638:G:N7	1.95	0.80
1:B:837:C:C3'	1:B:838:C:H5"	1.86	0.80
1:B:857:G:H4'	1:B:857:G:H5"	1.62	0.80
1:B:1211:C:H4'	1:B:1212:G:O5'	1.80	0.80
1:B:1274:A:OP1	1:B:1275:A:H3'	1.80	0.80
1:B:1301:A:C2	1:B:1303:G:H1'	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1354:A:OP1	1:B:1354:A:C8	2.35	0.80
1:B:1459:G:O6	1:B:1544:A:C4	2.35	0.80
1:B:1469:A:C4'	1:B:1528:A:H62	1.95	0.80
1:B:1569:A:C8	1:B:1570:A:O3'	2.33	0.80
1:B:1675:C:C1'	1:B:1677:A:N3	2.44	0.80
1:B:1690:A:C4'	1:B:1691:C:H5"	2.11	0.80
1:B:1849:G:N7	1:B:1889:A:N1	2.30	0.80
1:B:1905:C:H5'	1:B:1927:A:C4'	2.09	0.80
1:B:2009:A:O3'	1:B:2010:G:H5'	1.81	0.80
1:B:2108:A:OP2	1:B:2112:G:OP2	2.00	0.80
1:B:2131:U:C1'	1:B:2131:U:C2	2.63	0.80
1:B:2156:G:H2'	1:B:2157:G:OP2	1.82	0.80
1:B:2327:A:O2'	1:B:2328:A:OP1	1.98	0.80
1:B:2684:U:H5"	1:B:2722:G:H5'	1.60	0.80
1:B:2753:A:H5'	1:B:2754:U:C5'	2.11	0.80
1:B:27:G:H21	1:B:1248:G:C3'	1.93	0.80
1:B:28:A:C5'	1:B:28:A:H4'	2.09	0.80
1:B:334:C:O2'	1:B:335:C:OP1	1.99	0.80
1:B:451:U:C1'	1:B:460:A:C5'	2.56	0.80
1:B:601:C:C3'	1:B:602:A:P	2.69	0.80
1:B:811:U:H3'	1:B:812:C:C5'	2.12	0.80
1:B:864:G:N7	1:B:908:C:OP2	2.15	0.80
1:B:1050:A:C4'	1:B:1051:G:OP1	2.29	0.80
1:B:1241:A:O2'	1:B:1243:C:C2	2.35	0.80
1:B:1312:U:H2'	1:B:1313:U:H5"	1.62	0.80
1:B:1605:C:C5	1:B:1665:A:H5"	2.17	0.80
1:B:1778:U:O2'	1:B:2556:C:C1'	2.29	0.80
1:B:1855:U:OP1	1:B:1858:A:C8	2.34	0.80
1:B:1940:U:N3	1:B:2553:G:H4'	1.97	0.80
1:B:2115:G:O4'	1:B:2122:U:C5	2.34	0.80
1:B:2690:U:C1'	1:B:2690:U:C2	2.63	0.80
1:B:2701:U:O3'	1:B:2702:G:H4'	1.81	0.80
1:B:71:A:C1'	1:B:106:C:OP2	2.30	0.80
1:B:144:A:H1'	1:B:1326:U:H2'	1.62	0.80
1:B:162:U:C1'	1:B:162:U:C2	2.62	0.80
1:B:227:A:H5'	1:B:229:C:H41	1.45	0.80
1:B:576:U:H5"	1:B:2041:U:C5	2.16	0.80
1:B:1417:C:OP1	1:B:1466:U:C6	2.34	0.80
1:B:1580:A:N3	1:B:1632:A:C5'	2.45	0.80
1:B:1610:A:C6	1:B:1612:C:C5	2.69	0.80
1:B:1668:A:O5'	1:B:1669:A:O5'	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1672:A:H1'	1:B:1674:G:OP2	1.82	0.80
1:B:1933:G:O3'	1:B:1935:G:C3'	2.29	0.80
1:B:2040:G:OP1	1:B:2041:U:H4'	1.81	0.80
1:B:2493:U:C1'	1:B:2493:U:C2	2.64	0.80
1:B:2556:C:O5'	1:B:2557:G:H5'	1.81	0.80
1:B:2655:G:N2	1:B:2656:U:C4	2.50	0.80
1:B:2685:G:O4'	1:B:2722:G:O2'	1.99	0.80
1:B:12:U:C1'	1:B:12:U:C2	2.64	0.80
1:B:99:U:O3'	1:B:102:U:C2	2.34	0.80
1:B:111:A:H2'	1:B:112:U:OP2	1.80	0.80
1:B:113:U:C5'	1:B:113:U:C3'	2.59	0.80
1:B:310:A:H2'	1:B:483:A:C5	2.17	0.80
1:B:319:G:H4'	1:B:320:A:O5'	1.81	0.80
1:B:450:G:C5	1:B:592:A:H2	1.99	0.80
1:B:564:C:C1'	1:B:564:C:C6	2.65	0.80
1:B:573:U:O3'	1:B:573:U:H3'	1.76	0.80
1:B:670:A:C4'	1:B:671:C:H5"	2.11	0.80
1:B:1128:G:H3'	1:B:2751:G:H3'	1.64	0.80
1:B:1251:C:C1'	1:B:1251:C:C2	2.64	0.80
1:B:1427:A:N7	1:B:1566:A:C2	2.50	0.80
1:B:1527:G:C2'	1:B:1529:G:OP1	2.30	0.80
1:B:1755:A:N3	1:B:1765:U:H4'	1.96	0.80
1:B:1854:A:H8	1:B:1858:A:H5"	1.45	0.80
1:B:2132:U:C5	1:B:2133:G:C1'	2.62	0.80
1:B:2265:U:C1'	1:B:2265:U:C2	2.65	0.80
1:B:2344:U:HO2'	1:B:2345:G:C5'	1.95	0.80
1:B:2366:A:H5"	1:B:2367:G:H5'	1.59	0.80
1:B:2451:A:C1'	1:B:2562:U:H5'	2.10	0.80
1:B:2455:G:C8	1:B:2666:C:H5'	2.17	0.80
1:B:226:A:C1'	1:B:356:G:OP2	2.28	0.80
1:B:228:C:H5	1:B:432:A:O2'	1.65	0.80
1:B:362:A:C4'	1:B:428:A:H5"	2.11	0.80
1:B:466:A:C5'	1:B:467:G:OP2	2.30	0.80
1:B:535:G:H5'	1:B:950:G:H4'	1.62	0.80
1:B:846:U:C5	1:B:848:C:C5	2.69	0.80
1:B:989:G:C8	1:B:1153:C:O3'	2.34	0.80
1:B:1510:G:H5'	1:B:1511:G:H5'	1.64	0.80
1:B:1613:G:N2	1:B:1615:C:N3	2.26	0.80
1:B:1672:A:N9	1:B:1673:G:C2'	2.44	0.80
1:B:1692:U:C1'	1:B:1692:U:C2	2.64	0.80
1:B:2232:C:H3'	1:B:2233:U:H4'	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2306:C:C1'	1:B:2306:C:C2	2.65	0.80
1:B:2690:U:O2'	1:B:2727:A:C8	2.34	0.80
1:B:27:G:N2	1:B:1248:G:C4'	2.45	0.80
1:B:199:A:C8	1:B:200:U:C6	2.69	0.80
1:B:213:A:C6	1:B:218:A:C8	2.69	0.80
1:B:453:A:C4'	1:B:478:A:H1'	2.11	0.80
1:B:528:A:H1'	1:B:974:G:C5'	2.12	0.80
1:B:783:A:C2'	1:B:784:G:H5"	2.11	0.80
1:B:792:A:N6	1:B:795:C:C5	2.50	0.80
1:B:793:A:H4'	1:B:794:A:P	2.21	0.80
1:B:834:G:H5'	1:B:977:G:H5"	1.63	0.80
1:B:844:A:P	1:B:845:A:H5'	2.22	0.80
1:B:859:G:N2	1:B:912:C:C4	2.50	0.80
1:B:1019:U:O2	1:B:1028:A:O5'	1.99	0.80
1:B:1130:U:C2'	1:B:2753:A:P	2.70	0.80
1:B:1426:G:OP2	1:B:1567:G:C8	2.35	0.80
1:B:1448:G:O6	1:B:1544:A:N3	2.14	0.80
1:B:1480:C:O2'	1:B:1481:U:C5'	2.30	0.80
1:B:1522:A:O2'	1:B:1528:A:C2	2.35	0.80
1:B:1756:G:O2'	1:B:1757:A:H8	1.64	0.80
1:B:1790:C:O3'	1:B:1790:C:H3'	1.82	0.80
1:B:1800:C:C1'	1:B:1800:C:C2	2.66	0.80
1:B:1853:A:OP2	1:B:1886:U:N3	2.15	0.80
1:B:1933:G:H8	1:B:1938:A:C2'	1.92	0.80
1:B:2022:U:C1'	1:B:2022:U:C2	2.64	0.80
1:B:2114:A:O4'	1:B:2118:U:C2	2.34	0.80
1:B:2185:U:H4'	1:B:2186:G:C8	2.16	0.80
1:B:2287:A:H4'	1:B:2288:A:H8	1.47	0.80
1:B:2376:A:H5"	1:B:2414:G:OP1	1.80	0.80
1:B:2575:C:C1'	1:B:2575:C:C6	2.65	0.80
1:B:2685:G:H2'	1:B:2722:G:N2	1.96	0.80
1:B:2847:U:C1'	1:B:2847:U:C6	2.65	0.80
1:B:2887:A:H2	1:B:2888:C:H3'	1.47	0.80
1:B:15:G:N7	1:B:1255:U:H1'	1.97	0.79
1:B:33:C:C1'	1:B:33:C:C2	2.65	0.79
1:B:52:A:C5'	1:B:176:A:C4	2.64	0.79
1:B:61:C:O2	1:B:88:G:OP1	2.00	0.79
1:B:113:U:OP1	1:B:119:A:O4'	2.00	0.79
1:B:231:A:O3'	1:B:234:U:O4'	2.00	0.79
1:B:264:C:C1'	1:B:264:C:C2	2.65	0.79
1:B:323:C:C3'	1:B:324:A:P	2.70	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:G:C5’	1:B:472:A:C5’	2.22	0.79
1:B:448:U:C1’	1:B:448:U:C2	2.64	0.79
1:B:453:A:H8	1:B:478:A:H8	0.89	0.79
1:B:528:A:H1’	1:B:974:G:H5”	1.62	0.79
1:B:588:U:C3’	1:B:589:U:C5	2.65	0.79
1:B:734:A:O2’	1:B:736:C:O2	1.99	0.79
1:B:846:U:C1’	1:B:846:U:C2	2.64	0.79
1:B:913:U:C1’	1:B:913:U:C2	2.66	0.79
1:B:1044:C:C1’	1:B:1044:C:C2	2.65	0.79
1:B:1128:G:C3’	1:B:2751:G:H3’	2.12	0.79
1:B:1460:U:C1’	1:B:1460:U:C2	2.64	0.79
1:B:1608:A:H2’	1:B:1622:G:P	2.21	0.79
1:B:1672:A:C2’	1:B:1673:G:H4’	2.10	0.79
1:B:1674:G:H8	1:B:1679:A:C2’	1.86	0.79
1:B:1789:A:O2’	1:B:1790:C:O5’	1.99	0.79
1:B:1814:G:N3	1:B:1815:A:H5”	1.97	0.79
1:B:1853:A:C3’	1:B:1888:G:H8	1.94	0.79
1:B:1854:A:P	1:B:1888:G:C3’	2.69	0.79
1:B:1855:U:O3’	1:B:1886:U:C5’	2.30	0.79
1:B:1936:A:C5’	1:B:1941:C:H41	1.94	0.79
1:B:1951:U:C1’	1:B:1951:U:C2	2.63	0.79
1:B:2067:G:C2’	1:B:2068:U:N3	2.42	0.79
1:B:2139:U:O2	1:B:2139:U:O5’	1.99	0.79
1:B:2272:U:O2’	1:B:2273:A:H5’	1.81	0.79
1:B:2496:C:O2	1:B:2497:A:C8	2.35	0.79
1:B:2585:U:C1’	1:B:2585:U:C6	2.66	0.79
1:B:2846:G:P	1:B:2848:G:H3’	2.22	0.79
1:B:2856:A:H2’	1:B:2857:G:C5’	2.12	0.79
1:B:2866:U:H2’	1:B:2867:G:O4’	1.82	0.79
1:B:213:A:H61	1:B:218:A:H8	1.30	0.79
1:B:216:A:N7	1:B:257:C:N4	2.30	0.79
1:B:389:G:H5”	1:B:405:U:H3	1.39	0.79
1:B:390:U:H5’	1:B:405:U:OP2	1.81	0.79
1:B:509:C:C1’	1:B:509:C:C6	2.66	0.79
1:B:810:U:C1’	1:B:1196:C:N4	2.45	0.79
1:B:837:C:C1’	1:B:837:C:C2	2.64	0.79
1:B:867:C:H5’	1:B:868:U:H5	1.47	0.79
1:B:906:U:C1’	1:B:906:U:C6	2.66	0.79
1:B:914:G:O2’	1:B:917:A:C8	2.35	0.79
1:B:1005:C:C1’	1:B:1011:G:C5’	2.58	0.79
1:B:1263:U:C2	1:B:1269:A:O4’	2.34	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1265:A:N3	1:B:1616:A:H1'	1.96	0.79
1:B:1396:U:C1'	1:B:1396:U:C6	2.66	0.79
1:B:1445:G:H5"	1:B:1446:C:C6	2.13	0.79
1:B:1457:U:C1'	1:B:1457:U:C6	2.66	0.79
1:B:1499:C:H2'	1:B:1500:G:H5'	1.61	0.79
1:B:1580:A:H2	1:B:1632:A:OP1	1.65	0.79
1:B:1835:G:C8	1:B:1930:G:H1'	2.18	0.79
1:B:1847:A:C5'	1:B:1849:G:P	2.70	0.79
1:B:1955:U:OP2	1:B:2058:A:N3	2.15	0.79
1:B:2061:G:H22	1:B:2553:G:P	2.05	0.79
1:B:2596:U:C1'	1:B:2596:U:C2	2.63	0.79
1:B:2687:U:C2'	1:B:2688:G:C5'	2.52	0.79
1:B:2787:C:OP1	1:B:2812:G:O3'	1.99	0.79
1:B:2821:A:H2'	1:B:2822:G:O5'	1.82	0.79
1:B:98:G:O2'	1:B:102:U:H3'	1.82	0.79
1:B:254:G:OP2	1:B:254:G:N2	2.16	0.79
1:B:806:C:H3'	1:B:808:G:C5	2.16	0.79
1:B:867:C:C1'	1:B:867:C:C2	2.64	0.79
1:B:957:C:C1'	1:B:957:C:C2	2.65	0.79
1:B:1117:C:OP2	1:B:2750:A:H3'	1.82	0.79
1:B:1240:U:C4	1:B:1241:A:C8	2.70	0.79
1:B:1285:A:N3	1:B:2011:U:O2'	2.13	0.79
1:B:1447:C:H41	1:B:1543:G:N2	1.81	0.79
1:B:1654:A:H2'	1:B:1655:A:N3	1.96	0.79
1:B:1853:A:C3'	1:B:1888:G:C8	2.65	0.79
1:B:1932:A:C8	1:B:1937:A:O5'	2.36	0.79
1:B:239:C:O3'	1:B:275:C:C2	2.35	0.79
1:B:244:A:H1'	1:B:249:C:OP1	1.82	0.79
1:B:369:U:C1'	1:B:369:U:C2	2.65	0.79
1:B:388:G:H2'	1:B:389:G:C5'	2.07	0.79
1:B:442:G:H3'	1:B:443:A:H5'	1.62	0.79
1:B:675:A:C5'	1:B:1250:G:N7	2.41	0.79
1:B:802:A:O3'	1:B:1253:A:C4'	2.28	0.79
1:B:1027:A:H8	1:B:1028:A:OP2	1.63	0.79
1:B:1476:U:H5'	1:B:1515:A:H3'	1.63	0.79
1:B:1524:G:P	1:B:1527:G:C5'	2.71	0.79
1:B:1554:U:C1'	1:B:1554:U:C2	2.65	0.79
1:B:1676:A:C8	1:B:1690:A:H1'	2.17	0.79
1:B:1691:C:C1'	1:B:1691:C:C2	2.66	0.79
1:B:1803:A:H5"	1:B:1804:C:C1'	2.12	0.79
1:B:1847:A:N9	1:B:2231:U:O2'	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1884:G:O2'	1:B:1885:A:H2'	1.82	0.79
1:B:1928:A:C5'	1:B:1938:A:OP2	2.29	0.79
1:B:1931:U:H1'	1:B:1935:G:C1'	2.10	0.79
1:B:2111:U:C6	1:B:2112:G:P	2.76	0.79
1:B:2111:U:C2'	1:B:2113:U:P	2.71	0.79
1:B:2601:C:H2'	1:B:2602:A:C8	2.18	0.79
1:B:2850:A:H5"	1:B:2851:A:OP1	1.83	0.79
1:B:214:G:H8	1:B:219:A:C8	2.00	0.79
1:B:239:C:H5'	1:B:274:C:C2'	2.13	0.79
1:B:321:U:P	1:B:324:A:H1'	2.22	0.79
1:B:525:U:C3'	1:B:811:U:C1'	2.58	0.79
1:B:571:U:C3'	1:B:2619:C:OP2	2.31	0.79
1:B:760:G:H5"	1:B:761:A:H5'	1.65	0.79
1:B:762:U:C1'	1:B:763:G:H4'	2.11	0.79
1:B:792:A:H2	1:B:793:A:C5'	1.91	0.79
1:B:881:G:N2	1:B:896:A:H2	1.79	0.79
1:B:960:A:H5"	1:B:961:C:OP2	1.83	0.79
1:B:1211:C:C1'	1:B:1211:C:C2	2.66	0.79
1:B:1453:A:H5"	1:B:1527:G:H5"	1.64	0.79
1:B:1454:C:C1'	1:B:1454:C:C2	2.65	0.79
1:B:1604:C:C1'	1:B:1604:C:C2	2.66	0.79
1:B:1815:A:C2'	1:B:1817:G:H21	1.94	0.79
1:B:1855:U:C5	1:B:1886:U:OP2	2.35	0.79
1:B:1931:U:C1'	1:B:1931:U:C6	2.65	0.79
1:B:2884:U:C5	1:B:2889:C:N4	2.50	0.79
1:B:10:A:C4'	1:B:525:U:H4'	2.13	0.79
1:B:72:U:C6	1:B:72:U:OP1	2.36	0.79
1:B:270:A:C3'	1:B:271:G:H5'	2.13	0.79
1:B:270:A:O3'	1:B:426:C:O2'	2.00	0.79
1:B:275:C:C1'	1:B:275:C:C6	2.65	0.79
1:B:449:A:C5'	1:B:452:G:N3	2.46	0.79
1:B:459:U:C1'	1:B:459:U:C6	2.65	0.79
1:B:514:A:N3	1:B:670:A:O2'	2.16	0.79
1:B:570:G:H22	1:B:2043:C:H3'	1.35	0.79
1:B:759:G:O2'	1:B:761:A:C3'	2.30	0.79
1:B:807:U:C1'	1:B:807:U:C6	2.65	0.79
1:B:1024:G:H5"	1:B:2467:C:O3'	1.83	0.79
1:B:1032:A:O2'	1:B:1033:U:C5'	2.29	0.79
1:B:1235:G:N2	1:B:1236:G:H1	1.80	0.79
1:B:1582:C:C1'	1:B:1582:C:C2	2.65	0.79
1:B:1670:C:O2	1:B:1670:C:H2'	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1791:A:C1’	1:B:1934:C:H3’	2.13	0.79
1:B:1856:U:C4’	1:B:1886:U:H1’	2.13	0.79
1:B:1856:U:H5”	1:B:1886:U:O4’	1.83	0.79
1:B:1884:G:C5’	1:B:1885:A:O5’	2.29	0.79
1:B:1936:A:H5”	1:B:1941:C:N4	1.95	0.79
1:B:1940:U:C1’	1:B:1940:U:C6	2.65	0.79
1:B:2060:A:O2’	1:B:2558:C:H1’	1.83	0.79
1:B:2172:U:C1’	1:B:2172:U:C6	2.65	0.79
1:B:2359:C:C1’	1:B:2359:C:C2	2.65	0.79
1:B:2725:A:C5’	1:B:2728:U:C4’	2.43	0.79
1:B:2752:C:C1’	1:B:2752:C:C2	2.66	0.79
1:B:2848:G:H8	1:B:2872:A:OP2	1.65	0.79
1:B:176:A:H4’	1:B:177:G:H3’	1.62	0.79
1:B:403:U:C1’	1:B:403:U:C2	2.65	0.79
1:B:411:G:H4’	1:B:2406:A:H2’	1.65	0.79
1:B:451:U:C1’	1:B:451:U:C2	2.65	0.79
1:B:478:A:C5’	1:B:478:A:H4’	2.06	0.79
1:B:499:U:C1’	1:B:499:U:C6	2.66	0.79
1:B:500:G:C5	1:B:504:A:H5”	2.17	0.79
1:B:527:C:H2’	1:B:1189:A:C6	2.17	0.79
1:B:637:A:H5”	1:B:638:G:H8	1.47	0.79
1:B:781:A:H8	1:B:785:G:H3’	1.47	0.79
1:B:857:G:O5’	1:B:858:G:C8	2.34	0.79
1:B:857:G:O2’	1:B:912:C:C2	2.31	0.79
1:B:861:A:C8	1:B:911:A:C2	2.69	0.79
1:B:1028:A:C5’	1:B:1028:A:O4’	2.31	0.79
1:B:1264:A:H2’	1:B:1265:A:H5”	1.62	0.79
1:B:1294:U:C3’	1:B:1295:C:P	2.70	0.79
1:B:1450:G:C3’	1:B:1526:C:O2	2.30	0.79
1:B:1480:C:C3’	1:B:1481:U:H5”	1.99	0.79
1:B:1492:G:H5”	1:B:1493:C:OP2	1.82	0.79
1:B:1580:A:C1’	1:B:1632:A:H5’	2.11	0.79
1:B:1954:G:C8	1:B:2058:A:H5”	2.18	0.79
1:B:2086:U:C1’	1:B:2086:U:C2	2.64	0.79
1:B:2214:C:C1’	1:B:2214:C:C2	2.66	0.79
1:B:2275:C:C1’	1:B:2275:C:C2	2.66	0.79
1:B:2382:G:H3’	1:B:2383:G:H8	1.46	0.79
1:B:2846:G:OP2	1:B:2848:G:C3’	2.25	0.79
1:B:98:G:O5’	1:B:103:A:N3	2.15	0.79
1:B:120:U:O5’	1:B:120:U:OP2	1.98	0.79
1:B:163:C:C1’	1:B:163:C:C2	2.66	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:U:C5	1:B:836:G:C3'	2.65	0.79
1:B:608:A:OP1	1:B:610:C:C6	2.35	0.79
1:B:685:A:O2'	1:B:788:A:C4'	2.31	0.79
1:B:856:G:C4'	1:B:857:G:OP2	2.31	0.79
1:B:961:C:C1'	1:B:961:C:C2	2.66	0.79
1:B:971:G:O2'	1:B:972:A:P	2.41	0.79
1:B:1130:U:C1'	1:B:1130:U:C6	2.66	0.79
1:B:1132:U:C1'	1:B:1132:U:C2	2.65	0.79
1:B:1283:G:C4'	1:B:2012:G:N2	2.45	0.79
1:B:1393:A:H5"	1:B:1394:U:O4'	1.83	0.79
1:B:1543:G:C2	1:B:1544:A:C8	2.70	0.79
1:B:1675:C:H3'	1:B:1678:A:O5'	1.83	0.79
1:B:1732:C:C1'	1:B:1732:C:C2	2.66	0.79
1:B:1933:G:C2'	1:B:1935:G:C3'	2.60	0.79
1:B:1990:C:C1'	1:B:1990:C:C2	2.66	0.79
1:B:2076:U:C1'	1:B:2076:U:C2	2.63	0.79
1:B:2086:U:C1'	1:B:2087:G:C8	2.65	0.79
1:B:2202:U:H3'	1:B:2204:G:OP2	1.83	0.79
1:B:2394:C:H5"	1:B:2395:C:H5"	0.79	0.79
1:B:2422:C:C1'	1:B:2422:C:C2	2.66	0.79
1:B:2682:A:H2'	1:B:2720:U:O2'	1.83	0.79
1:B:2687:U:C1'	1:B:2687:U:C2	2.63	0.79
1:B:2733:A:C4'	1:B:2770:G:N2	2.45	0.79
1:B:2807:U:C1'	1:B:2807:U:C6	2.65	0.79
1:B:14:A:H4'	1:B:1256:G:C5	2.18	0.79
1:B:80:G:O6	1:B:98:G:O6	2.00	0.79
1:B:83:A:OP2	1:B:84:A:H2	1.64	0.79
1:B:164:C:C1'	1:B:164:C:C2	2.66	0.79
1:B:179:C:H2'	1:B:197:A:P	2.23	0.79
1:B:324:A:P	1:B:324:A:HO5'	2.04	0.79
1:B:329:G:O2'	1:B:335:C:C5	2.35	0.79
1:B:410:G:O3'	1:B:2407:A:OP1	2.01	0.79
1:B:452:G:H5'	1:B:453:A:H5"	0.80	0.79
1:B:471:A:C2	1:B:677:A:H8	1.99	0.79
1:B:490:C:C1'	1:B:490:C:C2	2.65	0.79
1:B:790:U:C1'	1:B:790:U:C2	2.65	0.79
1:B:802:A:C2'	1:B:1254:A:C4'	2.61	0.79
1:B:803:U:H2'	1:B:1255:U:C5'	2.13	0.79
1:B:1050:A:C5'	1:B:1051:G:OP1	2.31	0.79
1:B:1450:G:N2	1:B:1452:G:C5'	2.45	0.79
1:B:1558:C:C1'	1:B:1558:C:C2	2.66	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1833:C:OP1	1:B:1834:U:O4’	2.01	0.79
1:B:1962:C:C1’	1:B:1962:C:C2	2.66	0.79
1:B:2146:C:C1’	1:B:2146:C:C2	2.66	0.79
1:B:2165:C:C1’	1:B:2165:C:C2	2.65	0.79
1:B:2681:C:C1’	1:B:2681:C:C2	2.66	0.79
1:B:2682:A:C8	1:B:2688:G:O2’	2.36	0.79
1:B:2741:A:H1’	1:B:2742:G:C8	2.18	0.79
1:B:2754:U:C1’	1:B:2754:U:C2	2.63	0.79
1:B:2821:A:H2’	1:B:2822:G:C5’	2.13	0.79
1:B:22:C:H5”	1:B:511:U:C2’	2.13	0.79
1:B:60:G:P	1:B:60:G:HO5’	2.02	0.79
1:B:87:U:C4	1:B:88:G:O4’	2.35	0.79
1:B:93:G:C1’	1:B:504:A:H5’	2.13	0.79
1:B:139:U:C5	1:B:1551:A:H5’	2.18	0.79
1:B:276:U:C1’	1:B:276:U:C6	2.66	0.79
1:B:572:A:N7	1:B:2622:U:O4	2.16	0.79
1:B:717:C:C1’	1:B:717:C:C2	2.66	0.79
1:B:802:A:H2’	1:B:1254:A:H4’	1.65	0.79
1:B:1115:G:H2’	1:B:2749:A:H4’	1.63	0.79
1:B:1299:G:N2	1:B:1643:G:O2’	2.14	0.79
1:B:1617:C:C1’	1:B:1617:C:C2	2.66	0.79
1:B:1663:G:OP2	1:B:1664:A:O4’	2.00	0.79
1:B:1680:U:C1’	1:B:1680:U:C2	2.66	0.79
1:B:1816:C:C1’	1:B:1816:C:C2	2.66	0.79
1:B:1847:A:O2’	1:B:2231:U:H1’	1.83	0.79
1:B:1936:A:C8	1:B:1938:A:N9	2.50	0.79
1:B:2132:U:C1’	1:B:2132:U:C6	2.66	0.79
1:B:2393:U:C1’	1:B:2393:U:C6	2.67	0.79
1:B:76:C:N4	1:B:112:U:C5’	2.45	0.78
1:B:201:C:O2	1:B:202:U:H3’	1.83	0.78
1:B:220:G:C2’	1:B:277:G:H5’	2.12	0.78
1:B:227:A:N3	1:B:432:A:O2’	2.16	0.78
1:B:262:A:H5”	1:B:429:A:H3’	1.62	0.78
1:B:673:C:C1’	1:B:673:C:C2	2.65	0.78
1:B:792:A:H2	1:B:793:A:H5’	1.48	0.78
1:B:818:G:OP2	1:B:818:G:H8	1.63	0.78
1:B:856:G:OP1	1:B:857:G:C4’	2.30	0.78
1:B:920:A:C8	1:B:921:C:C1’	2.66	0.78
1:B:1019:U:O2	1:B:1028:A:P	2.41	0.78
1:B:1232:G:OP1	1:B:1237:A:OP2	2.01	0.78
1:B:1568:G:H1’	1:B:1575:C:H42	1.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1583:A:H4'	1:B:1584:U:O5'	1.83	0.78
1:B:1675:C:OP2	1:B:1680:U:H3'	1.82	0.78
1:B:1679:A:OP1	1:B:1686:C:N4	2.16	0.78
1:B:1752:C:C4'	1:B:1988:G:H5'	2.13	0.78
1:B:1801:A:C8	1:B:1802:A:OP2	2.37	0.78
1:B:2410:G:H3'	1:B:2411:A:C1'	2.13	0.78
1:B:2667:C:C1'	1:B:2668:G:C8	2.66	0.78
1:B:2733:A:H1'	1:B:2777:G:C2	2.18	0.78
1:B:2755:C:C1'	1:B:2755:C:C2	2.65	0.78
1:B:11:C:H3'	1:B:1195:G:C4	2.17	0.78
1:B:13:A:H5"	1:B:585:G:N2	1.97	0.78
1:B:84:A:C5'	1:B:88:G:N2	2.02	0.78
1:B:92:U:H1'	1:B:498:G:C4	2.19	0.78
1:B:139:U:C1'	1:B:139:U:C6	2.65	0.78
1:B:243:U:C1'	1:B:243:U:C6	2.67	0.78
1:B:294:A:C1'	1:B:326:G:N2	2.46	0.78
1:B:294:A:O5'	1:B:295:G:OP1	2.02	0.78
1:B:320:A:C5'	1:B:320:A:O4'	2.30	0.78
1:B:431:U:H2'	1:B:431:U:O2	1.82	0.78
1:B:566:U:O2	1:B:566:U:H2'	1.82	0.78
1:B:568:U:C1'	1:B:568:U:C2	2.65	0.78
1:B:645:C:C1'	1:B:645:C:C2	2.66	0.78
1:B:646:U:C1'	1:B:646:U:C2	2.64	0.78
1:B:811:U:H3'	1:B:812:C:H5'	1.65	0.78
1:B:886:A:HO2'	1:B:887:U:H5	1.31	0.78
1:B:1005:C:C6	1:B:1011:G:OP1	2.37	0.78
1:B:1019:U:C2'	1:B:1028:A:H5'	2.13	0.78
1:B:1047:G:H5'	1:B:1050:A:O5'	1.83	0.78
1:B:1445:G:H4'	1:B:1446:C:H5	1.48	0.78
1:B:1522:A:N9	1:B:1528:A:O2'	2.15	0.78
1:B:1663:G:C3'	1:B:1664:A:P	2.71	0.78
1:B:1814:G:H2'	1:B:1815:A:C5'	2.12	0.78
1:B:1853:A:O5'	1:B:1857:G:H3'	1.83	0.78
1:B:1883:U:C4'	1:B:1884:G:C5'	2.10	0.78
1:B:1938:A:C3'	1:B:1941:C:C5	2.66	0.78
1:B:1988:G:H3'	1:B:1989:G:OP2	1.83	0.78
1:B:2307:G:H2'	1:B:2308:G:O4'	1.82	0.78
1:B:2571:U:H5"	1:B:2647:U:C1'	2.13	0.78
1:B:2703:C:C1'	1:B:2703:C:C6	2.65	0.78
1:B:15:G:H2'	1:B:16:C:OP1	1.83	0.78
1:B:91:A:N3	1:B:94:A:N6	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:A:H5'	1:B:128:C:H5	1.45	0.78
1:B:215:G:C5'	1:B:219:A:O5'	2.32	0.78
1:B:221:A:C1'	1:B:222:A:N9	2.40	0.78
1:B:451:U:N1	1:B:460:A:H5"	1.97	0.78
1:B:587:C:C1'	1:B:587:C:C2	2.66	0.78
1:B:958:U:C1'	1:B:958:U:C6	2.66	0.78
1:B:1007:C:C1'	1:B:1007:C:C2	2.66	0.78
1:B:1050:A:OP2	1:B:1051:G:C8	2.37	0.78
1:B:1155:A:C2'	1:B:1156:A:C8	2.67	0.78
1:B:1516:G:C5'	1:B:1517:G:N7	2.45	0.78
1:B:1674:G:P	1:B:1678:A:N1	2.57	0.78
1:B:1695:G:H2'	1:B:2704:C:O2	1.84	0.78
1:B:1696:G:C4'	1:B:1697:G:H8	1.96	0.78
1:B:1758:U:C1'	1:B:1758:U:C6	2.66	0.78
1:B:1838:C:C1'	1:B:1838:C:C2	2.66	0.78
1:B:1933:G:C8	1:B:1939:5MU:P	2.76	0.78
1:B:1988:G:H3'	1:B:1989:G:P	2.23	0.78
1:B:2108:A:OP2	1:B:2112:G:P	2.40	0.78
1:B:2468:A:C3'	1:B:2469:A:C6	2.63	0.78
1:B:2667:C:O2'	1:B:2668:G:C5'	2.30	0.78
1:B:2858:C:C1'	1:B:2858:C:C2	2.66	0.78
1:B:50:U:C1'	1:B:50:U:C6	2.67	0.78
1:B:60:G:C5'	1:B:60:G:O4'	2.31	0.78
1:B:98:G:C2'	1:B:102:U:C3'	2.55	0.78
1:B:179:C:O2'	1:B:197:A:C5'	2.32	0.78
1:B:224:U:O2	1:B:431:U:O4	2.01	0.78
1:B:265:A:C4	1:B:369:U:H1'	2.17	0.78
1:B:318:C:O4'	1:B:319:G:N7	2.15	0.78
1:B:565:C:C1'	1:B:565:C:C2	2.66	0.78
1:B:566:U:H5	1:B:836:G:C4'	1.96	0.78
1:B:577:G:H5"	1:B:2019:A:OP2	1.84	0.78
1:B:677:A:H5"	1:B:678:C:C5	2.19	0.78
1:B:762:U:N1	1:B:763:G:H4'	1.99	0.78
1:B:801:G:H5'	1:B:802:A:N7	1.99	0.78
1:B:827:U:H2'	1:B:828:U:H5	1.48	0.78
1:B:837:C:C1'	1:B:837:C:C6	2.66	0.78
1:B:1445:G:C4'	1:B:1446:C:C5	2.65	0.78
1:B:1672:A:H62	1:B:1673:G:N2	1.77	0.78
1:B:1856:U:C1'	1:B:1856:U:C6	2.67	0.78
1:B:1942:C:C1'	1:B:1942:C:C6	2.64	0.78
1:B:1996:C:C1'	1:B:1996:C:C2	2.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2246:G:O4'	1:B:2427:C:H5	1.64	0.78
1:B:2440:C:C1'	1:B:2440:C:C2	2.66	0.78
1:B:2849:U:C4'	1:B:2850:A:C5'	2.62	0.78
1:B:103:A:H2'	1:B:104:A:N7	1.99	0.78
1:B:179:C:C1'	1:B:179:C:C6	2.65	0.78
1:B:223:A:C5'	1:B:224:U:O4'	2.29	0.78
1:B:240:C:H3'	1:B:275:C:C5'	2.12	0.78
1:B:465:G:C8	1:B:468:G:OP2	2.36	0.78
1:B:487:C:C4'	1:B:505:A:H3'	2.13	0.78
1:B:569:U:C1'	1:B:569:U:C6	2.67	0.78
1:B:674:G:N2	1:B:1249:U:H5"	1.97	0.78
1:B:773:U:H5"	1:B:780:G:H21	1.49	0.78
1:B:1033:U:C1'	1:B:1033:U:C6	2.67	0.78
1:B:1049:C:N4	1:B:1050:A:C4	2.51	0.78
1:B:1204:A:H2	1:B:1242:U:O2'	1.65	0.78
1:B:1253:A:H5'	1:B:1254:A:O4'	1.83	0.78
1:B:1516:G:O2'	1:B:1517:G:H3'	1.84	0.78
1:B:1543:G:H2'	1:B:1544:A:C4'	2.14	0.78
1:B:1573:G:H22	1:B:1632:A:C1'	1.94	0.78
1:B:1752:C:O3'	1:B:1988:G:C4'	2.31	0.78
1:B:1815:A:C8	1:B:1817:G:N2	2.51	0.78
1:B:1827:U:C5	1:B:1829:A:H5"	2.19	0.78
1:B:1853:A:OP2	1:B:1885:A:O2'	2.02	0.78
1:B:1856:U:O5'	1:B:1886:U:C5'	2.30	0.78
1:B:1936:A:P	1:B:1939:5MU:OP1	2.42	0.78
1:B:1961:C:HO2'	1:B:1962:C:C5'	1.95	0.78
1:B:2117:A:C2	1:B:2172:U:C6	2.72	0.78
1:B:2214:C:C2'	1:B:2215:C:H5'	2.13	0.78
1:B:2610:C:C1'	1:B:2610:C:C2	2.66	0.78
1:B:2833:U:H5"	1:B:2834:G:P	2.23	0.78
1:B:2904:U:C1'	1:B:2904:U:C6	2.67	0.78
1:B:9:G:O3'	1:B:526:A:H5'	1.84	0.78
1:B:53:A:C8	1:B:174:U:OP1	2.37	0.78
1:B:77:G:O5'	1:B:99:U:N1	2.16	0.78
1:B:77:G:C4'	1:B:99:U:H6	1.95	0.78
1:B:97:C:O3'	1:B:103:A:C1'	2.32	0.78
1:B:138:U:N1	1:B:139:U:H5'	1.99	0.78
1:B:213:A:N6	1:B:218:A:C8	2.51	0.78
1:B:270:A:O2'	1:B:271:G:OP1	2.00	0.78
1:B:455:C:H5"	1:B:456:C:H5'	1.66	0.78
1:B:675:A:H5"	1:B:676:A:C5	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:791:C:C1’	1:B:791:C:C2	2.66	0.78
1:B:890:C:C1’	1:B:890:C:C2	2.65	0.78
1:B:995:C:C1’	1:B:995:C:C2	2.66	0.78
1:B:1176:U:C1’	1:B:1176:U:C6	2.67	0.78
1:B:1211:C:C5’	1:B:1212:G:C5’	2.61	0.78
1:B:1249:U:C1’	1:B:1249:U:C6	2.67	0.78
1:B:1283:G:H4’	1:B:2013:A:H5”	1.66	0.78
1:B:1291:C:OP2	1:B:1645:G:O3’	2.02	0.78
1:B:1363:C:H2’	1:B:1364:G:C8	2.19	0.78
1:B:1416:G:H21	1:B:1465:G:C2’	1.96	0.78
1:B:1426:G:C5’	1:B:1572:A:C1’	2.49	0.78
1:B:1519:G:N2	1:B:1521:G:O6	2.16	0.78
1:B:1559:U:C3’	1:B:1561:C:H41	1.96	0.78
1:B:1641:A:OP1	1:B:1641:A:H2	1.66	0.78
1:B:1752:C:C1’	1:B:1752:C:C2	2.66	0.78
1:B:1855:U:C1’	1:B:1855:U:C2	2.66	0.78
1:B:1937:A:OP1	1:B:1938:A:C8	2.37	0.78
1:B:2377:A:C8	1:B:2394:C:H2’	2.19	0.78
1:B:2477:U:C1’	1:B:2477:U:C6	2.67	0.78
1:B:2614:A:O2’	1:B:2616:C:OP2	2.02	0.78
1:B:2820:A:O2’	1:B:2821:A:C3’	2.31	0.78
1:B:2870:C:C1’	1:B:2870:C:C2	2.65	0.78
1:B:10:A:H2	1:B:587:C:OP2	1.66	0.78
1:B:28:A:N7	1:B:1252:G:H1’	1.98	0.78
1:B:64:A:H1’	1:B:65:U:C5	2.18	0.78
1:B:77:G:OP2	1:B:99:U:C2’	2.31	0.78
1:B:189:G:C8	1:B:192:C:OP2	2.36	0.78
1:B:221:A:H1’	1:B:222:A:C8	2.17	0.78
1:B:383:C:H5”	1:B:384:A:C5’	2.13	0.78
1:B:411:G:P	1:B:2407:A:OP1	2.41	0.78
1:B:445:C:C3’	1:B:470:A:H1’	2.13	0.78
1:B:460:A:C5’	1:B:461:C:OP1	2.31	0.78
1:B:531:C:C1’	1:B:531:C:C2	2.66	0.78
1:B:602:A:H2’	1:B:603:A:OP2	1.84	0.78
1:B:608:A:H4’	1:B:609:A:N7	1.99	0.78
1:B:782:A:H5’	1:B:783:A:C5	2.18	0.78
1:B:810:U:C1’	1:B:810:U:C2	2.66	0.78
1:B:846:U:C2	1:B:847:U:H5”	2.18	0.78
1:B:1023:U:H1’	1:B:1023:U:P	2.23	0.78
1:B:1048:A:H4’	1:B:1102:C:O3’	1.84	0.78
1:B:1109:C:C1’	1:B:1109:C:C2	2.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1150:C:O3'	1:B:1151:A:OP2	1.97	0.78
1:B:1251:C:C1'	1:B:1251:C:C6	2.66	0.78
1:B:1671:U:H2'	1:B:1672:A:OP1	1.83	0.78
1:B:1674:G:N3	1:B:1680:U:C5'	2.47	0.78
1:B:1730:C:C1'	1:B:1730:C:C2	2.66	0.78
1:B:1866:A:O5'	1:B:1866:A:OP2	2.01	0.78
1:B:2501:C:C1'	1:B:2501:C:C2	2.66	0.78
1:B:2849:U:P	1:B:2872:A:H3'	2.23	0.78
1:B:33:C:C1'	1:B:33:C:C6	2.67	0.78
1:B:176:A:H4'	1:B:177:G:C3'	2.13	0.78
1:B:310:A:H3'	1:B:483:A:H62	1.47	0.78
1:B:525:U:C1'	1:B:525:U:C6	2.66	0.78
1:B:529:A:H2	1:B:972:A:C6	2.02	0.78
1:B:802:A:O3'	1:B:1254:A:O5'	2.00	0.78
1:B:888:C:C1'	1:B:888:C:C2	2.66	0.78
1:B:1050:A:H3'	1:B:1051:G:OP1	1.84	0.78
1:B:1263:U:C1'	1:B:1263:U:C6	2.66	0.78
1:B:1453:A:H4'	1:B:1524:G:C8	2.19	0.78
1:B:1551:A:P	1:B:1552:A:H1'	2.24	0.78
1:B:1584:U:C5	1:B:1586:A:OP1	2.36	0.78
1:B:1730:C:C1'	1:B:1730:C:C6	2.67	0.78
1:B:2145:C:C1'	1:B:2145:C:C2	2.66	0.78
1:B:2179:C:C1'	1:B:2179:C:C2	2.66	0.78
1:B:2335:A:O2'	1:B:2336:A:H5'	1.83	0.78
1:B:2465:C:H5"	1:B:2468:A:C5	2.17	0.78
1:B:2499:C:C1'	1:B:2499:C:C2	2.67	0.78
1:B:2541:A:O2'	1:B:2543:G:OP1	2.00	0.78
1:B:2586:U:C1'	1:B:2586:U:C6	2.67	0.78
1:B:2712:C:C1'	1:B:2712:C:C2	2.66	0.78
1:B:2836:U:O2	1:B:2885:G:N2	2.16	0.78
1:B:198:C:C1'	1:B:198:C:C2	2.66	0.78
1:B:266:G:H22	1:B:269:C:N4	1.79	0.78
1:B:500:G:N7	1:B:504:A:O3'	2.15	0.78
1:B:507:A:C4	1:B:1246:A:OP2	2.37	0.78
1:B:652:U:C1'	1:B:652:U:C6	2.67	0.78
1:B:775:G:C4'	1:B:776:G:OP2	2.32	0.78
1:B:792:A:H61	1:B:795:C:H5	1.32	0.78
1:B:889:C:C1'	1:B:889:C:C2	2.66	0.78
1:B:932:U:C1'	1:B:932:U:C6	2.66	0.78
1:B:1312:U:C1'	1:B:1312:U:C6	2.67	0.78
1:B:1520:U:O2'	1:B:1522:A:C2	2.36	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1655:A:H3'	1:B:1656:C:C5'	2.14	0.78
1:B:1728:C:C1'	1:B:1728:C:C2	2.66	0.78
1:B:2117:A:N3	1:B:2172:U:C6	2.52	0.78
1:B:2244:U:C1'	1:B:2244:U:C6	2.67	0.78
1:B:2438:U:C2'	1:B:2439:A:O5'	2.32	0.78
1:B:2453:A:C5'	1:B:2453:A:H4'	2.08	0.78
1:B:2488:G:O2'	1:B:2505:G:H1'	1.83	0.78
1:B:2846:G:C4'	1:B:2848:G:C8	2.65	0.78
1:B:2848:G:H2'	1:B:2872:A:C5'	2.01	0.78
1:B:51:G:P	1:B:151:C:O2'	2.42	0.78
1:B:71:A:N6	1:B:106:C:N4	2.32	0.78
1:B:320:A:C2'	1:B:324:A:C3'	2.52	0.78
1:B:465:G:H4'	1:B:479:A:N1	1.99	0.78
1:B:512:G:H2'	1:B:513:A:H5"	0.80	0.78
1:B:633:A:H4'	1:B:634:C:H6	1.48	0.78
1:B:714:U:C1'	1:B:714:U:C6	2.67	0.78
1:B:858:G:C5'	1:B:859:G:O5'	2.30	0.78
1:B:876:C:C1'	1:B:876:C:C6	2.65	0.78
1:B:941:A:H4'	1:B:946:C:HO2'	1.44	0.78
1:B:1522:A:C8	1:B:1528:A:O2'	2.34	0.78
1:B:1534:U:C1'	1:B:1534:U:C6	2.67	0.78
1:B:1536:C:C1'	1:B:1536:C:C2	2.65	0.78
1:B:1847:A:H2'	1:B:2231:U:C2'	2.14	0.78
1:B:2028:U:C1'	1:B:2028:U:C6	2.67	0.78
1:B:2111:U:O4'	1:B:2112:G:H5"	1.83	0.78
1:B:2273:A:C2'	1:B:2274:A:C5'	2.62	0.78
1:B:2283:C:C1'	1:B:2283:C:C2	2.66	0.78
1:B:2310:C:C1'	1:B:2310:C:C2	2.67	0.78
1:B:2683:C:C1'	1:B:2683:C:C6	2.66	0.78
1:B:2725:A:H5"	1:B:2728:U:C5'	2.13	0.78
1:B:2824:C:C1'	1:B:2824:C:C2	2.66	0.78
1:B:110:G:OP2	1:B:171:U:H5"	1.83	0.77
1:B:139:U:C2	1:B:1551:A:H4'	2.19	0.77
1:B:212:G:C4'	1:B:213:A:O5'	2.30	0.77
1:B:219:A:C5'	1:B:256:A:O3'	2.32	0.77
1:B:526:A:OP1	1:B:812:C:H5	1.66	0.77
1:B:576:U:C1'	1:B:576:U:C6	2.67	0.77
1:B:670:A:C2	1:B:671:C:OP1	2.36	0.77
1:B:757:G:O2'	1:B:758:C:H5'	1.85	0.77
1:B:1017:G:O3'	1:B:2752:C:H5"	1.82	0.77
1:B:1045:C:C1'	1:B:1045:C:C6	2.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1267:U:C1'	1:B:1267:U:C6	2.67	0.77
1:B:1391:U:C1'	1:B:1391:U:C6	2.67	0.77
1:B:1397:U:C1'	1:B:1397:U:C6	2.68	0.77
1:B:1415:U:OP2	1:B:1583:A:C5	2.38	0.77
1:B:1417:C:C6	1:B:1466:U:H3'	2.18	0.77
1:B:1477:A:C4	1:B:1478:G:C5'	2.67	0.77
1:B:1610:A:C2	1:B:1612:C:OP2	2.36	0.77
1:B:1615:C:C1'	1:B:1615:C:C2	2.66	0.77
1:B:1675:C:C1'	1:B:1675:C:C2	2.67	0.77
1:B:1675:C:C2'	1:B:1677:A:H2'	2.14	0.77
1:B:1728:C:C2'	1:B:1729:U:H5	1.96	0.77
1:B:1815:A:N9	1:B:1817:G:N2	2.31	0.77
1:B:1925:C:C1'	1:B:1925:C:C2	2.65	0.77
1:B:2108:A:OP1	1:B:2110:G:C2'	2.33	0.77
1:B:2275:C:C1'	1:B:2275:C:C6	2.67	0.77
1:B:2452:C:C1'	1:B:2452:C:C2	2.66	0.77
1:B:2488:G:H5"	1:B:2575:C:C5	2.19	0.77
1:B:2787:C:H5'	1:B:2813:A:H5'	1.65	0.77
1:B:2805:C:O3'	1:B:2806:C:H4'	1.83	0.77
1:B:75:G:P	1:B:75:G:HO5'	2.05	0.77
1:B:93:G:C8	1:B:504:A:OP1	2.37	0.77
1:B:202:U:C1'	1:B:202:U:C6	2.67	0.77
1:B:249:C:C1'	1:B:249:C:C2	2.67	0.77
1:B:455:C:C5'	1:B:456:C:H5'	2.13	0.77
1:B:615:U:C1'	1:B:615:U:C6	2.67	0.77
1:B:859:G:C5'	1:B:860:U:C6	2.66	0.77
1:B:862:G:C2'	1:B:863:A:H5'	2.14	0.77
1:B:901:C:C1'	1:B:901:C:C2	2.67	0.77
1:B:1023:U:C1'	1:B:1023:U:C6	2.66	0.77
1:B:1115:G:H1	1:B:2748:A:C2'	1.97	0.77
1:B:1140:C:C1'	1:B:1140:C:C2	2.67	0.77
1:B:1427:A:C2	1:B:1574:C:O4'	2.37	0.77
1:B:1696:G:C5'	1:B:2703:C:C5	2.67	0.77
1:B:1782:U:C1'	1:B:1782:U:C6	2.66	0.77
1:B:1791:A:H1'	1:B:1934:C:C6	2.19	0.77
1:B:1814:G:O2'	1:B:1815:A:C3'	2.31	0.77
1:B:1853:A:H3'	1:B:1888:G:H5'	1.65	0.77
1:B:2427:C:C1'	1:B:2427:C:C2	2.65	0.77
1:B:2789:C:C1'	1:B:2789:C:C2	2.65	0.77
1:B:2858:C:H2'	1:B:2859:G:C8	2.18	0.77
1:B:76:C:C3'	1:B:120:U:OP2	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:G:C5'	1:B:99:U:H6	1.97	0.77
1:B:99:U:C2	1:B:102:U:H4'	2.19	0.77
1:B:215:G:N7	1:B:216:A:C8	2.50	0.77
1:B:225:C:H5"	1:B:226:A:OP2	1.84	0.77
1:B:450:G:C5	1:B:592:A:C2	2.72	0.77
1:B:573:U:C1'	1:B:573:U:C6	2.66	0.77
1:B:940:G:H3'	1:B:941:A:P	2.23	0.77
1:B:982:C:C1'	1:B:982:C:C2	2.66	0.77
1:B:1032:A:C2	1:B:1121:C:N4	2.48	0.77
1:B:1116:G:H5'	1:B:2749:A:C2'	2.14	0.77
1:B:1282:U:O2	1:B:1285:A:N7	2.18	0.77
1:B:1569:A:N7	1:B:1571:A:O5'	2.17	0.77
1:B:1712:U:H2'	1:B:1713:A:C4'	2.15	0.77
1:B:1761:C:C1'	1:B:1761:C:C2	2.68	0.77
1:B:1854:A:H5'	1:B:1888:G:C1'	1.87	0.77
1:B:1944:U:C1'	1:B:1945:G:H4'	2.13	0.77
1:B:1965:C:C1'	1:B:1965:C:C2	2.66	0.77
1:B:1973:G:H4'	1:B:2062:A:H2	1.05	0.77
1:B:2326:C:C1'	1:B:2326:C:C2	2.67	0.77
1:B:2375:G:O5'	1:B:2414:G:C5'	2.30	0.77
1:B:2497:A:C5'	1:B:2658:C:H1'	2.13	0.77
1:B:2575:C:H5'	1:B:2576:G:C3'	2.13	0.77
1:B:2684:U:C1'	1:B:2684:U:C6	2.67	0.77
1:B:2704:C:C1'	1:B:2704:C:C2	2.66	0.77
1:B:2755:C:C1'	1:B:2755:C:C6	2.67	0.77
1:B:2871:U:O2'	1:B:2872:A:H5"	1.82	0.77
1:B:15:G:N2	1:B:1252:G:O6	2.17	0.77
1:B:264:C:C1'	1:B:264:C:C6	2.67	0.77
1:B:377:G:H5'	1:B:403:U:C6	2.18	0.77
1:B:385:C:C1'	1:B:385:C:C2	2.67	0.77
1:B:464:U:C1'	1:B:464:U:C6	2.66	0.77
1:B:487:C:H1'	1:B:505:A:C4	2.19	0.77
1:B:717:C:C1'	1:B:717:C:C6	2.67	0.77
1:B:865:C:C1'	1:B:865:C:C2	2.66	0.77
1:B:920:A:OP1	1:B:921:C:H1'	1.84	0.77
1:B:1117:C:H4'	1:B:1129:A:O3'	1.83	0.77
1:B:1128:G:C4'	1:B:2751:G:C2'	2.52	0.77
1:B:1135:C:C1'	1:B:1135:C:C2	2.67	0.77
1:B:1211:C:C1'	1:B:1211:C:C6	2.67	0.77
1:B:1263:U:C4	1:B:1269:A:C8	2.72	0.77
1:B:1282:U:C2'	1:B:1285:A:N6	2.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1417:C:N4	1:B:1635:A:O2'	2.16	0.77
1:B:1425:G:HO3'	1:B:1426:G:P	2.05	0.77
1:B:1452:G:O4'	1:B:1461:C:H1'	1.85	0.77
1:B:1453:A:O3'	1:B:1524:G:H5"	1.84	0.77
1:B:1493:C:C1'	1:B:1493:C:C6	2.68	0.77
1:B:1568:G:C3'	1:B:1570:A:C5	2.60	0.77
1:B:1584:U:C1'	1:B:1584:U:C6	2.65	0.77
1:B:1585:C:C1'	1:B:1585:C:C2	2.66	0.77
1:B:1606:C:C1'	1:B:1606:C:C2	2.66	0.77
1:B:1664:A:C8	1:B:1758:U:H5'	2.18	0.77
1:B:1670:C:C1'	1:B:1670:C:C2	2.68	0.77
1:B:1825:U:H5"	1:B:1967:C:N4	1.99	0.77
1:B:1828:G:N2	1:B:2443:C:O2'	2.17	0.77
1:B:1833:C:O2'	1:B:1931:U:C4'	2.28	0.77
1:B:1905:C:O5'	1:B:1928:A:P	2.42	0.77
1:B:1936:A:C8	1:B:1938:A:C8	2.72	0.77
1:B:2066:C:OP2	1:B:2440:C:H1'	1.84	0.77
1:B:2111:U:H6	1:B:2112:G:H5'	1.47	0.77
1:B:2245:U:C1'	1:B:2245:U:C6	2.67	0.77
1:B:2320:U:H2'	1:B:2321:U:OP2	1.85	0.77
1:B:2552:U:C1'	1:B:2552:U:C6	2.68	0.77
1:B:2723:C:C1'	1:B:2723:C:C2	2.66	0.77
1:B:2789:C:C1'	1:B:2789:C:C6	2.67	0.77
1:B:2850:A:C5'	1:B:2851:A:OP1	2.33	0.77
1:B:45:G:H5"	1:B:46:G:C5'	2.14	0.77
1:B:75:G:C3'	1:B:100:U:C5	2.66	0.77
1:B:87:U:C2'	1:B:498:G:OP2	2.30	0.77
1:B:101:A:H4'	1:B:102:U:OP1	1.84	0.77
1:B:211:C:O2	1:B:213:A:H2	1.68	0.77
1:B:227:A:H2	1:B:432:A:C1'	1.92	0.77
1:B:299:A:H3'	1:B:334:C:OP1	1.83	0.77
1:B:319:G:C2	1:B:324:A:O2'	2.33	0.77
1:B:339:U:C1'	1:B:339:U:C6	2.67	0.77
1:B:430:A:C6	1:B:431:U:C4	2.73	0.77
1:B:430:A:C6	1:B:431:U:O4	2.38	0.77
1:B:445:C:C3'	1:B:470:A:C4	2.67	0.77
1:B:574:A:C4	1:B:2040:G:OP2	2.38	0.77
1:B:577:G:N7	1:B:579:G:H1'	1.99	0.77
1:B:752:A:H8	1:B:752:A:OP2	1.68	0.77
1:B:792:A:C2	1:B:793:A:H5'	2.20	0.77
1:B:850:U:H2'	1:B:851:C:N1	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1126:A:C5'	1:B:1126:A:O4'	2.31	0.77
1:B:1135:C:C5	1:B:1140:C:C5'	2.65	0.77
1:B:1282:U:H3'	1:B:2012:G:H1	1.48	0.77
1:B:1294:U:H2'	1:B:1295:C:H5'	1.67	0.77
1:B:1606:C:C1'	1:B:1606:C:C6	2.67	0.77
1:B:1722:A:OP1	1:B:1739:A:C4	2.37	0.77
1:B:1781:U:C1'	1:B:1781:U:C6	2.67	0.77
1:B:1855:U:H5	1:B:1886:U:H3'	1.48	0.77
1:B:1906:G:H8	1:B:1927:A:H3'	1.40	0.77
1:B:1914:C:C1'	1:B:1914:C:C2	2.66	0.77
1:B:2034:U:C1'	1:B:2034:U:C6	2.67	0.77
1:B:2076:U:O3'	1:B:2077:A:O5'	2.01	0.77
1:B:2086:U:O3'	1:B:2086:U:O5'	2.03	0.77
1:B:2356:U:C1'	1:B:2356:U:C6	2.66	0.77
1:B:2501:C:C2	1:B:2575:C:N3	2.53	0.77
1:B:2573:C:C1'	1:B:2573:C:C2	2.66	0.77
1:B:2845:U:H5'	1:B:2846:G:OP1	1.84	0.77
1:B:93:G:H1'	1:B:504:A:H5'	1.66	0.77
1:B:98:G:C8	1:B:102:U:C5	2.66	0.77
1:B:264:C:OP1	1:B:370:G:C5'	2.33	0.77
1:B:486:C:H1'	1:B:505:A:H5"	1.67	0.77
1:B:529:A:C6	1:B:947:A:H1'	2.20	0.77
1:B:569:U:O2'	1:B:832:U:H4'	1.83	0.77
1:B:585:G:C5'	1:B:1196:C:O5'	2.32	0.77
1:B:620:G:H5"	1:B:621:A:C8	2.16	0.77
1:B:803:U:H6	1:B:1255:U:O5'	1.67	0.77
1:B:806:C:C1'	1:B:806:C:C2	2.67	0.77
1:B:944:C:C1'	1:B:944:C:C6	2.68	0.77
1:B:1023:U:C5	1:B:2484:G:N7	2.53	0.77
1:B:1049:C:C1'	1:B:1049:C:C6	2.66	0.77
1:B:1105:U:O2'	1:B:1106:G:H5'	1.84	0.77
1:B:1130:U:C6	1:B:2749:A:C1'	2.64	0.77
1:B:1135:C:H5	1:B:1140:C:H5'	1.50	0.77
1:B:1951:U:C1'	1:B:1951:U:C6	2.68	0.77
1:B:2021:C:C1'	1:B:2021:C:C2	2.68	0.77
1:B:2060:A:C3'	1:B:2446:G:H5"	2.15	0.77
1:B:2085:U:C2'	1:B:2086:U:C5'	2.62	0.77
1:B:2085:U:O2'	1:B:2086:U:C5'	2.32	0.77
1:B:2210:U:C1'	1:B:2210:U:C6	2.68	0.77
1:B:2533:U:C1'	1:B:2533:U:C6	2.67	0.77
1:B:2613:U:C1'	1:B:2613:U:C6	2.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2809:A:O2'	1:B:2810:A:C5'	2.32	0.77
1:B:2849:U:C5'	1:B:2872:A:H2'	2.14	0.77
1:B:34:U:C1'	1:B:34:U:C2	2.67	0.77
1:B:102:U:C4	1:B:119:A:N6	2.53	0.77
1:B:189:G:C5'	1:B:190:A:O2'	2.33	0.77
1:B:446:G:O5'	1:B:472:A:H5'	1.85	0.77
1:B:449:A:O5'	1:B:478:A:C3'	2.33	0.77
1:B:803:U:C1'	1:B:803:U:C2	2.66	0.77
1:B:942:G:O3'	1:B:943:A:C2	2.37	0.77
1:B:989:G:N7	1:B:1153:C:H3'	1.99	0.77
1:B:1023:U:C6	1:B:2484:G:O6	2.38	0.77
1:B:1044:C:H2'	1:B:1044:C:O2	1.83	0.77
1:B:1289:C:O4'	1:B:1648:U:H5"	1.84	0.77
1:B:1302:A:H4'	1:B:1303:G:H8	1.42	0.77
1:B:1325:U:C1'	1:B:1325:U:C6	2.66	0.77
1:B:1524:G:OP1	1:B:1527:G:C5'	2.32	0.77
1:B:1559:U:C1'	1:B:1559:U:C6	2.67	0.77
1:B:1615:C:C1'	1:B:1615:C:C6	2.67	0.77
1:B:1646:C:C1'	1:B:1646:C:C6	2.66	0.77
1:B:1694:C:C1'	1:B:1694:C:C2	2.67	0.77
1:B:1760:C:C1'	1:B:1760:C:C2	2.66	0.77
1:B:1838:C:C1'	1:B:1838:C:C6	2.68	0.77
1:B:1942:C:C5'	1:B:2441:U:HO2'	1.95	0.77
1:B:1971:U:C5'	1:B:1971:U:O4'	2.31	0.77
1:B:1992:G:H4'	1:B:1993:U:O4'	1.84	0.77
1:B:2060:A:C1'	1:B:2558:C:O2	2.33	0.77
1:B:2076:U:C1'	1:B:2076:U:C6	2.68	0.77
1:B:2108:A:H5"	1:B:2110:G:O2'	1.83	0.77
1:B:2236:U:O2'	1:B:2237:G:H5'	1.85	0.77
1:B:2390:U:C1'	1:B:2390:U:C6	2.68	0.77
1:B:2452:C:C5	1:B:2517:C:O2'	2.36	0.77
1:B:2468:A:C5'	1:B:2469:A:H61	1.98	0.77
1:B:2475:C:C1'	1:B:2475:C:C2	2.67	0.77
1:B:2483:C:C1'	1:B:2483:C:C2	2.66	0.77
1:B:2488:G:C1'	1:B:2505:G:C8	2.67	0.77
1:B:2533:U:C2'	1:B:2534:A:H5'	2.13	0.77
1:B:2683:C:C1'	1:B:2683:C:C2	2.64	0.77
1:B:77:G:OP1	1:B:120:U:H4'	1.85	0.77
1:B:143:C:H3'	1:B:1328:A:H2	1.45	0.77
1:B:269:C:N4	1:B:426:C:O2	2.18	0.77
1:B:294:A:H1'	1:B:326:G:H22	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:586:A:O3'	1:B:586:A:C2'	2.32	0.77
1:B:672:C:C5'	1:B:1248:G:N7	2.47	0.77
1:B:837:C:C1'	1:B:976:G:N7	2.44	0.77
1:B:876:C:N4	1:B:900:A:C5'	2.47	0.77
1:B:1023:U:C2'	1:B:2466:C:N4	2.41	0.77
1:B:1024:G:H2'	1:B:2470:G:N7	1.98	0.77
1:B:1049:C:C4	1:B:1050:A:C8	2.73	0.77
1:B:1174:U:C1'	1:B:1174:U:C6	2.67	0.77
1:B:1298:C:H3'	1:B:1339:G:N2	1.99	0.77
1:B:1340:U:C1'	1:B:1340:U:C6	2.68	0.77
1:B:1358:G:H21	1:B:1359:A:H3'	1.47	0.77
1:B:1417:C:C1'	1:B:1417:C:C2	2.68	0.77
1:B:1428:C:C1'	1:B:1428:C:C2	2.67	0.77
1:B:1520:U:H1'	1:B:1521:G:N7	1.99	0.77
1:B:1626:A:O2'	1:B:1627:G:O5'	2.03	0.77
1:B:1847:A:H5'	1:B:1849:G:P	2.24	0.77
1:B:1891:G:N2	1:B:1892:C:C2	2.53	0.77
1:B:1971:U:O4	1:B:2061:G:O2'	1.99	0.77
1:B:2013:A:C5'	1:B:2014:A:C8	2.68	0.77
1:B:2104:C:C4'	1:B:2105:U:C5	2.53	0.77
1:B:2273:A:H2'	1:B:2274:A:O4'	1.83	0.77
1:B:2451:A:H2	1:B:2562:U:O3'	1.64	0.77
1:B:2584:U:C1'	1:B:2584:U:C6	2.67	0.77
1:B:2626:C:C1'	1:B:2626:C:C6	2.65	0.77
1:B:2762:C:H4'	1:B:2763:G:O5'	1.84	0.77
1:B:43:G:C3'	1:B:44:A:P	2.73	0.77
1:B:77:G:C2'	1:B:147:C:OP1	2.32	0.77
1:B:124:G:C2'	1:B:125:A:H5'	2.14	0.77
1:B:215:G:O2'	1:B:257:C:P	2.43	0.77
1:B:221:A:C1'	1:B:222:A:C4	2.65	0.77
1:B:331:C:C1'	1:B:331:C:C6	2.66	0.77
1:B:455:C:C1'	1:B:455:C:C2	2.67	0.77
1:B:802:A:O3'	1:B:1254:A:O4'	2.03	0.77
1:B:806:C:C1'	1:B:806:C:C6	2.68	0.77
1:B:888:C:C1'	1:B:888:C:C6	2.67	0.77
1:B:1047:G:P	1:B:1049:C:O2'	2.43	0.77
1:B:1416:G:N2	1:B:1465:G:C2'	2.48	0.77
1:B:1569:A:O2'	1:B:1570:A:C8	2.37	0.77
1:B:1693:U:C1'	1:B:1693:U:C6	2.67	0.77
1:B:1851:U:C1'	1:B:1851:U:C6	2.68	0.77
1:B:2167:U:C1'	1:B:2167:U:C6	2.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2334:U:C1'	1:B:2334:U:C6	2.67	0.77
1:B:2450:A:C3'	1:B:2561:U:OP1	2.33	0.77
1:B:2629:U:C1'	1:B:2629:U:C6	2.67	0.77
1:B:2690:U:C1'	1:B:2690:U:C6	2.68	0.77
1:B:52:A:N7	1:B:118:A:O5'	2.18	0.77
1:B:140:C:C1'	1:B:140:C:C2	2.66	0.77
1:B:162:U:C1'	1:B:162:U:C6	2.68	0.77
1:B:163:C:C1'	1:B:163:C:C6	2.68	0.77
1:B:215:G:H5'	1:B:217:A:O5'	1.83	0.77
1:B:263:G:H5"	1:B:359:G:C3'	2.13	0.77
1:B:360:U:C1'	1:B:360:U:C6	2.67	0.77
1:B:390:U:C1'	1:B:390:U:C6	2.67	0.77
1:B:457:A:H5"	1:B:458:G:OP2	1.85	0.77
1:B:466:A:H5'	1:B:467:G:OP2	1.84	0.77
1:B:488:G:C5'	1:B:509:C:N3	2.49	0.77
1:B:517:C:H4'	1:B:1247:A:OP2	1.84	0.77
1:B:546:U:C1'	1:B:546:U:C6	2.67	0.77
1:B:565:C:C1'	1:B:565:C:C6	2.68	0.77
1:B:567:U:C1'	1:B:567:U:C6	2.67	0.77
1:B:587:C:C1'	1:B:587:C:C6	2.68	0.77
1:B:642:U:C1'	1:B:642:U:C6	2.67	0.77
1:B:676:A:OP1	1:B:1250:G:H1'	1.85	0.77
1:B:777:G:N2	1:B:788:A:C2'	2.47	0.77
1:B:932:U:H2'	1:B:932:U:O2	1.83	0.77
1:B:1188:U:H2'	1:B:1188:U:O2	1.83	0.77
1:B:1199:U:OP1	1:B:1257:C:H5"	1.84	0.77
1:B:1242:U:C1'	1:B:1242:U:C6	2.67	0.77
1:B:1329:U:C1'	1:B:1329:U:C6	2.68	0.77
1:B:1379:U:C1'	1:B:1379:U:C6	2.67	0.77
1:B:1458:U:C1'	1:B:1458:U:C6	2.68	0.77
1:B:1521:G:N7	1:B:1522:A:C1'	2.48	0.77
1:B:1715:G:C5'	1:B:1738:G:N7	2.48	0.77
1:B:1720:U:C1'	1:B:1720:U:C2	2.67	0.77
1:B:1760:C:C1'	1:B:1760:C:C6	2.68	0.77
1:B:1887:C:C1'	1:B:1887:C:C2	2.67	0.77
1:B:1926:U:C1'	1:B:1926:U:C6	2.68	0.77
1:B:2185:U:C1'	1:B:2185:U:C6	2.67	0.77
1:B:2233:U:C1'	1:B:2233:U:C6	2.68	0.77
1:B:2275:C:H4'	1:B:2427:C:C2	2.20	0.77
1:B:2488:G:C4'	1:B:2505:G:C2'	2.62	0.77
1:B:2573:C:C1'	1:B:2573:C:C6	2.68	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2735:G:C8	1:B:2775:G:O6	2.39	0.77
1:B:9:G:O3'	1:B:9:G:H3'	1.82	0.76
1:B:12:U:OP1	1:B:1195:G:H1'	1.85	0.76
1:B:89:A:H2'	1:B:90:U:OP1	1.85	0.76
1:B:99:U:C3'	1:B:102:U:C2	2.68	0.76
1:B:143:C:H5'	1:B:1329:U:OP2	1.85	0.76
1:B:183:C:C1'	1:B:183:C:C2	2.68	0.76
1:B:219:A:C4'	1:B:256:A:O3'	2.32	0.76
1:B:223:A:C6	1:B:260:G:OP2	2.37	0.76
1:B:300:A:H5'	1:B:333:G:OP2	1.86	0.76
1:B:317:G:O2'	1:B:319:G:C6	2.37	0.76
1:B:435:C:C1'	1:B:435:C:C6	2.68	0.76
1:B:451:U:O2	1:B:459:U:H2'	1.84	0.76
1:B:527:C:C1'	1:B:527:C:C2	2.66	0.76
1:B:672:C:OP1	1:B:673:C:H5	1.67	0.76
1:B:673:C:O2	1:B:1251:C:O2'	2.01	0.76
1:B:777:G:N2	1:B:788:A:C3'	2.48	0.76
1:B:942:G:C3'	1:B:943:A:C2	2.67	0.76
1:B:1012:U:C1'	1:B:1012:U:C6	2.68	0.76
1:B:1128:G:H3'	1:B:2751:G:O3'	1.85	0.76
1:B:1142:A:OP1	1:B:1142:A:N3	2.18	0.76
1:B:1341:G:OP1	1:B:1400:U:H4'	1.84	0.76
1:B:1348:C:C1'	1:B:1348:C:C2	2.68	0.76
1:B:1371:G:N3	1:B:1372:U:H5"	2.00	0.76
1:B:1474:U:O4	1:B:1515:A:O2'	2.02	0.76
1:B:1696:G:C3'	1:B:2703:C:C6	2.68	0.76
1:B:1829:A:H61	1:B:1970:A:H1'	1.49	0.76
1:B:1853:A:O2'	1:B:1854:A:C4'	2.32	0.76
1:B:1858:A:O2'	1:B:1885:A:H2	1.65	0.76
1:B:1967:C:C1'	1:B:1967:C:C2	2.67	0.76
1:B:2004:G:OP2	1:B:2005:A:C8	2.37	0.76
1:B:2104:C:C1'	1:B:2104:C:C2	2.67	0.76
1:B:2165:C:H4'	1:B:2168:G:H21	1.50	0.76
1:B:2712:C:C1'	1:B:2712:C:C6	2.68	0.76
1:B:2713:U:O2'	1:B:2714:G:C5'	2.33	0.76
1:B:2739:U:C1'	1:B:2739:U:C6	2.67	0.76
1:B:52:A:H5'	1:B:176:A:C4	2.19	0.76
1:B:112:U:C1'	1:B:112:U:C6	2.66	0.76
1:B:280:U:C1'	1:B:280:U:C6	2.68	0.76
1:B:448:U:C3'	1:B:478:A:O2'	2.33	0.76
1:B:574:A:N3	1:B:2039:U:H3'	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:668:A:H5"	1:B:669:G:C5'	2.13	0.76
1:B:802:A:C5'	1:B:1254:A:OP1	2.33	0.76
1:B:804:A:O2'	1:B:1254:A:C6	2.38	0.76
1:B:862:G:C2'	1:B:863:A:C5'	2.63	0.76
1:B:867:C:C1'	1:B:867:C:C6	2.67	0.76
1:B:887:U:C1'	1:B:887:U:C6	2.67	0.76
1:B:978:G:OP2	1:B:979:A:H8	1.68	0.76
1:B:1203:U:C1'	1:B:1203:U:C6	2.66	0.76
1:B:1449:G:OP1	1:B:1587:G:C4'	2.29	0.76
1:B:1464:G:O6	1:B:1544:A:H2'	1.85	0.76
1:B:1602:U:C1'	1:B:1602:U:C6	2.68	0.76
1:B:1696:G:H2'	1:B:2702:G:O3'	1.84	0.76
1:B:1729:U:C1'	1:B:1729:U:C6	2.67	0.76
1:B:1774:C:C1'	1:B:1774:C:C2	2.67	0.76
1:B:1943:U:C5	1:B:2071:A:H4'	2.19	0.76
1:B:1944:U:C1'	1:B:1944:U:C6	2.68	0.76
1:B:2117:A:N3	1:B:2172:U:C5	2.53	0.76
1:B:2202:U:C3'	1:B:2204:G:C5'	2.62	0.76
1:B:2283:C:C1'	1:B:2283:C:C6	2.68	0.76
1:B:2325:G:H3'	1:B:2327:A:OP1	1.85	0.76
1:B:2628:C:C1'	1:B:2628:C:C2	2.68	0.76
1:B:2797:U:C1'	1:B:2797:U:C6	2.68	0.76
1:B:2857:G:H2'	1:B:2858:C:C6	2.20	0.76
1:B:2866:U:C2	1:B:2867:G:H1'	2.19	0.76
1:B:84:A:N6	1:B:86:G:O6	2.18	0.76
1:B:92:U:C1'	1:B:498:G:H2'	2.15	0.76
1:B:141:G:H2'	1:B:1331:G:HO2'	1.45	0.76
1:B:213:A:H8	1:B:214:G:C5'	1.93	0.76
1:B:293:U:O3'	1:B:295:G:N7	2.18	0.76
1:B:310:A:C3'	1:B:483:A:N6	2.47	0.76
1:B:320:A:C2'	1:B:324:A:C2'	2.60	0.76
1:B:513:A:N7	1:B:514:A:H5'	2.00	0.76
1:B:566:U:C1'	1:B:566:U:C6	2.65	0.76
1:B:574:A:H5"	1:B:2043:C:O3'	1.85	0.76
1:B:779:U:H3	1:B:794:A:H8	1.30	0.76
1:B:828:U:C1'	1:B:828:U:C6	2.67	0.76
1:B:861:A:O5'	1:B:862:G:C8	2.39	0.76
1:B:861:A:O5'	1:B:862:G:H8	1.67	0.76
1:B:916:G:H5'	1:B:917:A:C5'	2.16	0.76
1:B:920:A:H8	1:B:921:C:C1'	1.99	0.76
1:B:944:C:C1'	1:B:944:C:C2	2.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:995:C:C1’	1:B:995:C:C6	2.68	0.76
1:B:1288:G:O3’	1:B:1648:U:O2’	2.03	0.76
1:B:1347:A:C3’	1:B:1348:C:P	2.73	0.76
1:B:1568:G:N2	1:B:1580:A:N1	2.30	0.76
1:B:1585:C:OP1	1:B:1634:A:H5”	1.84	0.76
1:B:2517:C:HO3’	1:B:2518:A:P	1.97	0.76
1:B:2681:C:C1’	1:B:2681:C:C6	2.68	0.76
1:B:2689:U:H2’	1:B:2718:G:C6	2.19	0.76
1:B:2753:A:C5’	1:B:2754:U:C4’	2.59	0.76
1:B:33:C:C1’	1:B:677:A:C2	2.68	0.76
1:B:51:G:C5’	1:B:51:G:O4’	2.34	0.76
1:B:98:G:O4’	1:B:103:A:N9	2.19	0.76
1:B:405:U:C1’	1:B:405:U:C6	2.67	0.76
1:B:450:G:H1’	1:B:452:G:O2’	1.85	0.76
1:B:490:C:C1’	1:B:490:C:C6	2.67	0.76
1:B:501:A:H2’	1:B:506:G:OP1	1.86	0.76
1:B:598:U:H4’	1:B:937:C:O4’	1.86	0.76
1:B:646:U:H5”	1:B:647:G:H5’	1.67	0.76
1:B:912:C:O2’	1:B:913:U:O5’	2.02	0.76
1:B:917:A:OP1	1:B:918:A:H5’	1.83	0.76
1:B:1254:A:C5’	1:B:1254:A:H4’	2.09	0.76
1:B:1415:U:C5	1:B:1583:A:N3	2.52	0.76
1:B:1470:A:H5”	1:B:1472:C:C5’	2.03	0.76
1:B:1627:G:O2’	1:B:1641:A:H1’	1.85	0.76
1:B:1736:U:O4	1:B:1739:A:O2’	2.04	0.76
1:B:1753:G:H5’	1:B:1988:G:O3’	1.83	0.76
1:B:1857:G:O3’	1:B:1888:G:C5’	2.34	0.76
1:B:2068:U:HO3’	1:B:2069:7MG:P	2.08	0.76
1:B:2359:C:C1’	1:B:2359:C:C6	2.67	0.76
1:B:2401:U:OP1	1:B:2407:A:C5’	2.34	0.76
1:B:2467:C:C1’	1:B:2467:C:C6	2.68	0.76
1:B:2501:C:C1’	1:B:2501:C:C6	2.67	0.76
1:B:2554:U:C1’	1:B:2554:U:C6	2.69	0.76
1:B:2655:G:H1’	1:B:2656:U:OP1	1.85	0.76
1:B:2687:U:C1’	1:B:2687:U:C6	2.68	0.76
1:B:2718:G:C5’	1:B:2719:G:OP2	2.26	0.76
1:B:2798:U:C1’	1:B:2798:U:C6	2.67	0.76
1:B:2845:U:H5’	1:B:2868:A:O2’	1.85	0.76
1:B:2903:U:C1’	1:B:2903:U:C6	2.66	0.76
1:B:72:U:C1’	1:B:72:U:C2	2.66	0.76
1:B:92:U:C1’	1:B:92:U:C6	2.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:G:OP1	1:B:171:U:H5'	1.84	0.76
1:B:189:G:C4'	1:B:190:A:O2'	2.33	0.76
1:B:232:G:P	1:B:234:U:H5'	2.26	0.76
1:B:318:C:O3'	1:B:319:G:P	2.42	0.76
1:B:387:U:C1'	1:B:387:U:C6	2.67	0.76
1:B:435:C:C1'	1:B:435:C:C2	2.66	0.76
1:B:563:A:C2	1:B:564:C:H5'	2.20	0.76
1:B:574:A:C1'	1:B:2039:U:O3'	2.33	0.76
1:B:670:A:C3'	1:B:671:C:H5"	2.15	0.76
1:B:675:A:C8	1:B:676:A:H8	2.03	0.76
1:B:745:7MG:C4'	1:B:748:G:O2'	2.33	0.76
1:B:859:G:C4'	1:B:859:G:O5'	2.31	0.76
1:B:941:A:P	1:B:947:A:C5'	2.69	0.76
1:B:1126:A:C8	1:B:1126:A:OP2	2.38	0.76
1:B:1131:G:H8	1:B:1133:A:P	2.07	0.76
1:B:1202:G:O2'	1:B:1203:U:C5	2.37	0.76
1:B:1497:U:C1'	1:B:1497:U:C6	2.67	0.76
1:B:1787:A:C2	1:B:2556:C:P	2.79	0.76
1:B:1938:A:O3'	1:B:1941:C:C5	2.38	0.76
1:B:1971:U:O2'	1:B:1972:G:H5"	1.84	0.76
1:B:2164:C:C1'	1:B:2164:C:C2	2.67	0.76
1:B:2431:U:C1'	1:B:2431:U:C6	2.68	0.76
1:B:2450:A:H3'	1:B:2561:U:OP1	1.85	0.76
1:B:2466:C:H3'	1:B:2467:C:C5'	2.15	0.76
1:B:2501:C:H5'	1:B:2574:G:C8	2.20	0.76
1:B:51:G:O3'	1:B:51:G:C2'	2.34	0.76
1:B:138:U:C1'	1:B:138:U:C6	2.69	0.76
1:B:228:C:C1'	1:B:228:C:C2	2.67	0.76
1:B:228:C:C1'	1:B:228:C:C6	2.68	0.76
1:B:344:A:C8	1:B:347:A:C5'	2.68	0.76
1:B:360:U:H2'	1:B:360:U:O2	1.85	0.76
1:B:499:U:N3	1:B:505:A:N3	2.33	0.76
1:B:837:C:H3'	1:B:838:C:H5'	0.76	0.76
1:B:875:G:C5	1:B:876:C:H5	2.03	0.76
1:B:912:C:O2'	1:B:913:U:P	2.43	0.76
1:B:1050:A:C4'	1:B:1051:G:C5'	2.58	0.76
1:B:1130:U:O3'	1:B:2752:C:O2'	2.03	0.76
1:B:1282:U:C1'	1:B:1282:U:C6	2.66	0.76
1:B:1347:A:H4'	1:B:1348:C:P	2.25	0.76
1:B:1428:C:H5'	1:B:1430:C:P	2.24	0.76
1:B:1680:U:OP1	1:B:1701:A:C8	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1790:C:OP2	1:B:1970:A:C3'	2.29	0.76
1:B:1816:C:H5'	1:B:1817:G:C2	2.20	0.76
1:B:1834:U:C1'	1:B:1834:U:C6	2.68	0.76
1:B:1853:A:C5'	1:B:1855:U:C4	2.69	0.76
1:B:1856:U:H2'	1:B:1856:U:O2	1.86	0.76
1:B:1905:C:H2'	1:B:1928:A:C4'	2.16	0.76
1:B:1932:A:H5"	1:B:1935:G:OP2	1.86	0.76
1:B:1942:C:C1'	1:B:2442:C:O4'	2.34	0.76
1:B:2068:U:C1'	1:B:2068:U:C6	2.68	0.76
1:B:2377:A:H3'	1:B:2394:C:C6	2.19	0.76
1:B:2763:G:O2'	1:B:2764:A:H5'	1.84	0.76
1:B:2849:U:O5'	1:B:2871:U:H1'	1.85	0.76
1:B:11:C:C2'	1:B:1195:G:C3'	2.60	0.76
1:B:219:A:H4'	1:B:257:C:P	2.26	0.76
1:B:510:C:C1'	1:B:510:C:C2	2.68	0.76
1:B:571:U:H6	1:B:572:A:OP1	1.69	0.76
1:B:961:C:C1'	1:B:961:C:C6	2.68	0.76
1:B:1030:C:H41	1:B:1126:A:C1'	1.98	0.76
1:B:1438:U:C1'	1:B:1438:U:C6	2.66	0.76
1:B:1570:A:N1	1:B:1573:G:O5'	2.18	0.76
1:B:1582:C:O3'	1:B:1584:U:H5"	1.84	0.76
1:B:1605:C:C1'	1:B:1605:C:C2	2.65	0.76
1:B:1617:C:C1'	1:B:1617:C:C6	2.67	0.76
1:B:1647:U:C1'	1:B:1647:U:C6	2.68	0.76
1:B:1671:U:O3'	1:B:1704:C:OP2	2.03	0.76
1:B:2042:A:H4'	1:B:2043:C:H5'	1.66	0.76
1:B:2104:C:C1'	1:B:2104:C:C6	2.69	0.76
1:B:2199:A:C3'	1:B:2200:C:C5'	2.61	0.76
1:B:2488:G:H5"	1:B:2575:C:C4	2.20	0.76
1:B:2556:C:C3'	1:B:2557:G:C4'	2.63	0.76
1:B:15:G:C5'	1:B:1197:G:C2'	2.64	0.76
1:B:15:G:H5'	1:B:1256:G:O4'	1.69	0.76
1:B:32:C:H41	1:B:33:C:H41	1.31	0.76
1:B:320:A:C1'	1:B:325:G:OP1	2.25	0.76
1:B:456:C:C1'	1:B:456:C:C2	2.67	0.76
1:B:500:G:H2'	1:B:505:A:O2'	1.84	0.76
1:B:507:A:C6	1:B:518:G:H4'	2.19	0.76
1:B:674:G:H1	1:B:1247:A:C4'	1.98	0.76
1:B:1224:U:C1'	1:B:1224:U:C6	2.67	0.76
1:B:1284:A:O5'	1:B:2012:G:C2'	2.33	0.76
1:B:1352:U:C1'	1:B:1352:U:C6	2.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1428:C:C1'	1:B:1428:C:C6	2.69	0.76
1:B:1445:G:OP1	1:B:1446:C:C1'	2.34	0.76
1:B:1451:C:C4'	1:B:1526:C:C6	2.68	0.76
1:B:1452:G:O6	1:B:1460:U:C5	2.39	0.76
1:B:1963:U:C1'	1:B:1963:U:C6	2.69	0.76
1:B:2145:C:C1'	1:B:2145:C:C6	2.68	0.76
1:B:2308:G:N2	1:B:2309:A:C8	2.54	0.76
1:B:2423:U:C1'	1:B:2423:U:C6	2.68	0.76
1:B:2868:A:C8	1:B:2871:U:C3'	2.69	0.76
1:B:2894:G:H3'	1:B:2895:G:H5'	1.62	0.76
1:B:18:U:OP1	1:B:672:C:O4'	2.04	0.76
1:B:465:G:O2'	1:B:466:A:H5'	1.86	0.76
1:B:675:A:C4'	1:B:1250:G:C8	2.68	0.76
1:B:706:A:O2'	1:B:707:G:C8	2.23	0.76
1:B:931:U:C1'	1:B:931:U:C6	2.67	0.76
1:B:1047:G:OP2	1:B:1053:C:N4	2.19	0.76
1:B:1130:U:C5'	1:B:2749:A:N7	2.48	0.76
1:B:1188:U:C1'	1:B:1188:U:C6	2.67	0.76
1:B:1348:C:H1'	1:B:1349:C:C5	2.19	0.76
1:B:1428:C:C5'	1:B:1429:G:O3'	2.34	0.76
1:B:1453:A:OP1	1:B:1453:A:H8	1.67	0.76
1:B:1454:C:C1'	1:B:1454:C:C6	2.67	0.76
1:B:1493:C:C1'	1:B:1493:C:C2	2.67	0.76
1:B:1569:A:OP1	1:B:1573:G:C8	2.38	0.76
1:B:1605:C:C1'	1:B:1605:C:C6	2.67	0.76
1:B:1607:C:C1'	1:B:1607:C:C2	2.66	0.76
1:B:1608:A:H2	1:B:1622:G:C5'	1.86	0.76
1:B:1691:C:C1'	1:B:1691:C:C6	2.68	0.76
1:B:1930:G:H3'	1:B:1934:C:O2'	1.85	0.76
1:B:1996:C:C1'	1:B:1996:C:C6	2.68	0.76
1:B:2022:U:H2'	1:B:2022:U:O2	1.86	0.76
1:B:2060:A:H2	1:B:2551:C:C1'	1.99	0.76
1:B:2320:U:C1'	1:B:2320:U:C6	2.67	0.76
1:B:2499:C:C1'	1:B:2499:C:C6	2.69	0.76
1:B:2499:C:H2'	1:B:2499:C:O2	1.86	0.76
1:B:2662:A:H2'	1:B:2663:G:O4'	1.85	0.76
1:B:2807:U:H5"	1:B:2886:A:H3'	1.68	0.76
1:B:2849:U:P	1:B:2872:A:H5"	2.26	0.76
1:B:99:U:O2	1:B:102:U:O4'	2.04	0.76
1:B:102:U:C1'	1:B:102:U:C2	2.69	0.76
1:B:179:C:O2	1:B:196:A:C5'	2.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:G:O5'	1:B:191:A:OP2	2.04	0.76
1:B:189:G:H8	1:B:192:C:OP2	1.67	0.76
1:B:231:A:C5'	1:B:232:G:H4'	2.16	0.76
1:B:255:A:OP1	1:B:255:A:N3	2.19	0.76
1:B:321:U:C1'	1:B:321:U:C6	2.67	0.76
1:B:446:G:O2'	1:B:471:A:C5'	2.33	0.76
1:B:483:A:C2'	1:B:484:C:C4'	2.42	0.76
1:B:507:A:N1	1:B:518:G:C5'	2.48	0.76
1:B:524:G:OP1	1:B:587:C:P	2.44	0.76
1:B:646:U:C4'	1:B:647:G:H5'	2.16	0.76
1:B:889:C:C1'	1:B:889:C:C6	2.68	0.76
1:B:1049:C:C6	1:B:1050:A:H3'	2.21	0.76
1:B:1354:A:N6	1:B:1377:G:N2	2.34	0.76
1:B:1377:G:H8	1:B:1378:A:C6	2.03	0.76
1:B:1417:C:O2	1:B:1635:A:C2	2.38	0.76
1:B:1419:A:H5'	1:B:1632:A:N1	2.01	0.76
1:B:1460:U:C1'	1:B:1460:U:C6	2.69	0.76
1:B:1570:A:N3	1:B:1572:A:C4'	2.48	0.76
1:B:1670:C:O2	1:B:1753:G:H8	1.66	0.76
1:B:1672:A:P	1:B:1704:C:OP2	2.43	0.76
1:B:1871:A:H2	1:B:2132:U:H5"	0.96	0.76
1:B:1905:C:H3'	1:B:1928:A:H5"	1.66	0.76
1:B:2357:G:H8	1:B:2357:G:OP2	1.67	0.76
1:B:2376:A:C2'	1:B:2394:C:OP1	2.33	0.76
1:B:2503:A:H5'	1:B:2504:U:O4'	1.86	0.76
1:B:2555:U:H2'	1:B:2556:C:OP1	1.83	0.76
1:B:2566:A:C5'	1:B:2567:G:C8	2.69	0.76
1:B:2598:A:C2'	1:B:2599:G:H5'	2.15	0.76
1:B:2722:G:OP1	1:B:2722:G:C8	2.37	0.76
1:B:2849:U:C6	1:B:2849:U:C1'	2.69	0.76
1:B:2891:U:C1'	1:B:2891:U:C6	2.67	0.76
1:B:71:A:N6	1:B:106:C:C4	2.55	0.75
1:B:140:C:C1'	1:B:140:C:C6	2.67	0.75
1:B:198:C:C1'	1:B:198:C:C6	2.68	0.75
1:B:322:A:HO3'	1:B:323:C:P	2.07	0.75
1:B:509:C:O2	1:B:509:C:H2'	1.86	0.75
1:B:746:PSU:C5'	1:B:747:5MU:C5M	2.48	0.75
1:B:783:A:C2'	1:B:784:G:H5'	2.11	0.75
1:B:802:A:H5'	1:B:1254:A:OP1	1.87	0.75
1:B:845:A:H2'	1:B:931:U:N3	2.01	0.75
1:B:876:C:N4	1:B:900:A:H4'	1.96	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:916:G:C5'	1:B:917:A:C5'	2.59	0.75
1:B:1024:G:C5'	1:B:2467:C:O3'	2.33	0.75
1:B:1282:U:O2	1:B:1286:A:N6	2.20	0.75
1:B:1477:A:C2	1:B:1478:G:H4'	2.21	0.75
1:B:1641:A:C6	1:B:1642:G:N7	2.55	0.75
1:B:1688:U:C1'	1:B:1688:U:C6	2.67	0.75
1:B:1848:A:H4'	1:B:1849:G:H5"	1.66	0.75
1:B:1883:U:O2'	1:B:1884:G:H8	1.69	0.75
1:B:1996:C:C2'	1:B:1997:C:OP1	2.34	0.75
1:B:2016:U:C1'	1:B:2016:U:C6	2.68	0.75
1:B:2086:U:C1'	1:B:2086:U:C6	2.69	0.75
1:B:2321:U:C4'	1:B:2322:A:OP2	2.34	0.75
1:B:2344:U:C3'	1:B:2345:G:P	2.74	0.75
1:B:2493:U:C2'	1:B:2498:5MC:H1'	2.12	0.75
1:B:2824:C:C1'	1:B:2824:C:C6	2.68	0.75
1:B:2859:G:C3'	1:B:2860:A:H5'	2.16	0.75
1:B:103:A:H2'	1:B:104:A:H8	1.48	0.75
1:B:217:A:C5'	1:B:218:A:O5'	2.35	0.75
1:B:217:A:OP1	1:B:257:C:O4'	2.04	0.75
1:B:230:G:N2	1:B:432:A:OP1	2.20	0.75
1:B:450:G:O2'	1:B:451:U:C5'	2.34	0.75
1:B:500:G:O6	1:B:504:A:H5"	1.84	0.75
1:B:529:A:C8	1:B:973:A:H4'	2.22	0.75
1:B:574:A:H4'	1:B:2043:C:O3'	1.85	0.75
1:B:647:G:OP2	1:B:653:U:H5'	1.87	0.75
1:B:673:C:H3'	1:B:1248:G:O3'	1.87	0.75
1:B:735:A:H4'	1:B:736:C:C6	2.21	0.75
1:B:802:A:O3'	1:B:1254:A:P	2.45	0.75
1:B:927:A:OP1	1:B:928:A:H5'	1.84	0.75
1:B:1302:A:O3'	1:B:1303:G:O5'	2.05	0.75
1:B:1348:C:OP2	1:B:1716:U:H4'	1.87	0.75
1:B:1449:G:C5'	1:B:1587:G:H4'	2.17	0.75
1:B:1580:A:N3	1:B:1632:A:H5'	2.01	0.75
1:B:1690:A:O5'	1:B:1691:C:C5'	2.34	0.75
1:B:1692:U:C1'	1:B:1692:U:C6	2.69	0.75
1:B:1816:C:H5'	1:B:1817:G:N2	2.01	0.75
1:B:1828:G:C3'	1:B:1970:A:OP2	2.27	0.75
1:B:1935:G:H2'	1:B:1939:5MU:O4'	1.86	0.75
1:B:1941:C:OP2	1:B:2062:A:C2'	2.31	0.75
1:B:2016:U:H2'	1:B:2016:U:O2	1.87	0.75
1:B:2103:C:C3'	1:B:2104:C:C5'	2.32	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2112:G:O2'	1:B:2178:C:C6	2.36	0.75
1:B:2203:U:C1'	1:B:2203:U:C6	2.66	0.75
1:B:2504:U:H4'	1:B:2505:G:OP2	1.86	0.75
1:B:2563:U:C1'	1:B:2563:U:C6	2.66	0.75
1:B:2610:C:C1'	1:B:2610:C:C6	2.68	0.75
1:B:2640:G:N7	1:B:2777:G:C8	2.54	0.75
1:B:2685:G:N7	1:B:2687:U:C5'	2.49	0.75
1:B:2848:G:O2'	1:B:2870:C:O3'	2.03	0.75
1:B:2884:U:C1'	1:B:2884:U:C6	2.67	0.75
1:B:11:C:C5'	1:B:586:A:C5'	2.60	0.75
1:B:120:U:N1	1:B:121:G:OP2	2.18	0.75
1:B:373:U:C1'	1:B:373:U:C6	2.67	0.75
1:B:455:C:C3'	1:B:456:C:H5"	2.14	0.75
1:B:645:C:C1'	1:B:645:C:C6	2.68	0.75
1:B:792:A:N3	1:B:793:A:H5"	2.00	0.75
1:B:1109:C:C1'	1:B:1109:C:C6	2.69	0.75
1:B:1326:U:C4	1:B:1327:A:H5'	2.21	0.75
1:B:1418:G:C2'	1:B:1634:A:N6	2.49	0.75
1:B:1445:G:C4'	1:B:1446:C:H5	1.99	0.75
1:B:1476:U:C5'	1:B:1515:A:O3'	2.32	0.75
1:B:1568:G:O2'	1:B:1574:C:N4	2.20	0.75
1:B:1940:U:C4	1:B:2553:G:C4'	2.64	0.75
1:B:1954:G:H8	1:B:2058:A:H5"	1.51	0.75
1:B:2131:U:H2'	1:B:2131:U:O2	1.86	0.75
1:B:2165:C:C1'	1:B:2165:C:C6	2.67	0.75
1:B:2424:C:C1'	1:B:2424:C:C2	2.68	0.75
1:B:2609:U:C1'	1:B:2609:U:C6	2.67	0.75
1:B:2645:G:H4'	1:B:2646:C:C5	2.19	0.75
1:B:2724:U:C1'	1:B:2724:U:C6	2.65	0.75
1:B:2754:U:C1'	1:B:2754:U:C6	2.67	0.75
1:B:29:U:H3'	1:B:1250:G:N2	2.00	0.75
1:B:221:A:C5'	1:B:277:G:H2'	2.11	0.75
1:B:501:A:O5'	1:B:503:A:C1'	2.33	0.75
1:B:686:U:C1'	1:B:686:U:C6	2.66	0.75
1:B:746:PSU:O3'	1:B:752:A:C2	2.40	0.75
1:B:906:U:H5"	1:B:907:G:H5'	1.69	0.75
1:B:915:C:C5'	1:B:916:G:OP2	2.34	0.75
1:B:982:C:C1'	1:B:982:C:C6	2.68	0.75
1:B:1282:U:C3'	1:B:2012:G:H1	1.99	0.75
1:B:1394:U:C1'	1:B:1394:U:C6	2.68	0.75
1:B:1416:G:H5"	1:B:1637:A:P	2.25	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1582:C:C1'	1:B:1582:C:C6	2.66	0.75
1:B:1615:C:C2	1:B:1616:A:H8	2.04	0.75
1:B:1763:G:H3'	1:B:1764:C:H5'	1.67	0.75
1:B:1814:G:C4'	1:B:1815:A:H2	1.99	0.75
1:B:1846:G:OP1	1:B:2232:C:H1'	1.86	0.75
1:B:1857:G:HO5'	1:B:1886:U:H3	1.19	0.75
1:B:1943:U:C5'	1:B:1943:U:O4'	2.34	0.75
1:B:2273:A:H2'	1:B:2274:A:H5'	1.61	0.75
1:B:2467:C:C1'	1:B:2467:C:C2	2.66	0.75
1:B:2686:G:H5'	1:B:2722:G:N2	2.02	0.75
1:B:2871:U:C1'	1:B:2871:U:C6	2.66	0.75
1:B:222:A:H5"	1:B:262:A:N6	1.97	0.75
1:B:226:A:C6	1:B:431:U:O3'	2.40	0.75
1:B:229:C:C2	1:B:432:A:O3'	2.40	0.75
1:B:448:U:C1'	1:B:448:U:C6	2.69	0.75
1:B:568:U:C1'	1:B:568:U:C6	2.70	0.75
1:B:673:C:P	1:B:1248:G:H2'	2.26	0.75
1:B:791:C:C1'	1:B:791:C:C6	2.68	0.75
1:B:846:U:H2'	1:B:847:U:C5'	2.17	0.75
1:B:871:U:C1'	1:B:871:U:C6	2.68	0.75
1:B:895:U:O2'	1:B:896:A:C8	2.40	0.75
1:B:978:G:OP2	1:B:979:A:C8	2.40	0.75
1:B:1050:A:H4'	1:B:1051:G:H5'	1.68	0.75
1:B:1348:C:O2'	1:B:1349:C:P	2.45	0.75
1:B:1425:G:C4'	1:B:1566:A:H4'	2.15	0.75
1:B:1523:U:H2'	1:B:1524:G:O4'	1.86	0.75
1:B:1573:G:N2	1:B:1632:A:C1'	2.50	0.75
1:B:1604:C:C1'	1:B:1604:C:C6	2.67	0.75
1:B:1674:G:O4'	1:B:1680:U:C5'	2.35	0.75
1:B:1834:U:H5'	1:B:1835:G:C5'	2.14	0.75
1:B:1882:U:H2'	1:B:1883:U:C3'	2.16	0.75
1:B:2164:C:C1'	1:B:2164:C:C6	2.68	0.75
1:B:2172:U:H2'	1:B:2173:A:C5'	2.15	0.75
1:B:2179:C:C1'	1:B:2179:C:C6	2.68	0.75
1:B:2575:C:C5'	1:B:2576:G:O3'	2.33	0.75
1:B:2713:U:C1'	1:B:2713:U:C6	2.68	0.75
1:B:2723:C:C1'	1:B:2723:C:C6	2.68	0.75
1:B:2845:U:C5'	1:B:2846:G:OP1	2.34	0.75
1:B:27:G:C2	1:B:1248:G:H4'	2.22	0.75
1:B:34:U:H3'	1:B:35:G:H5'	1.67	0.75
1:B:90:U:C1'	1:B:90:U:C6	2.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:U:N1	1:B:113:U:H5'	2.01	0.75
1:B:120:U:N3	1:B:121:G:C8	2.55	0.75
1:B:214:G:H2'	1:B:219:A:O4'	1.87	0.75
1:B:294:A:OP1	1:B:295:G:H8	1.65	0.75
1:B:482:A:H61	1:B:512:G:H21	1.34	0.75
1:B:545:U:C1'	1:B:545:U:C6	2.67	0.75
1:B:685:A:O2'	1:B:788:A:H4'	1.86	0.75
1:B:764:A:C5'	1:B:765:C:C5'	2.57	0.75
1:B:934:U:OP1	1:B:982:C:H3'	1.85	0.75
1:B:1044:C:C1'	1:B:1044:C:C6	2.67	0.75
1:B:1117:C:C5'	1:B:1129:A:O3'	2.34	0.75
1:B:1141:U:C1'	1:B:1141:U:C6	2.66	0.75
1:B:1271:G:O2'	1:B:1649:G:N7	2.19	0.75
1:B:1291:C:H4'	1:B:1310:G:N2	2.02	0.75
1:B:1346:G:H4'	1:B:1348:C:O4'	1.86	0.75
1:B:1426:G:H4'	1:B:1572:A:C1'	2.17	0.75
1:B:1468:U:O2	1:B:1527:G:O4'	2.04	0.75
1:B:1810:A:C8	1:B:1811:G:N7	2.54	0.75
1:B:1816:C:C1'	1:B:1816:C:C6	2.68	0.75
1:B:1839:G:H5"	1:B:1840:G:H8	1.47	0.75
1:B:2109:U:C1'	1:B:2109:U:C6	2.68	0.75
1:B:2111:U:O2'	1:B:2120:G:O6	2.04	0.75
1:B:2115:G:C4'	1:B:2122:U:OP2	2.33	0.75
1:B:2166:U:C1'	1:B:2166:U:C6	2.66	0.75
1:B:2167:U:H6	1:B:2169:A:C5'	2.00	0.75
1:B:2179:C:H3'	1:B:2180:U:C5'	2.17	0.75
1:B:2379:G:HO2'	1:B:2393:U:H1'	1.50	0.75
1:B:2501:C:N3	1:B:2575:C:N3	2.34	0.75
1:B:34:U:H5"	1:B:793:A:C2	2.21	0.75
1:B:35:G:H1'	1:B:677:A:C2	2.22	0.75
1:B:197:A:C5'	1:B:198:C:OP2	2.34	0.75
1:B:328:U:C1'	1:B:328:U:C6	2.66	0.75
1:B:366:C:H5"	1:B:367:G:C5'	2.16	0.75
1:B:455:C:C1'	1:B:455:C:C6	2.69	0.75
1:B:457:A:C8	1:B:657:U:C5'	2.61	0.75
1:B:476:G:N7	1:B:477:A:N7	2.35	0.75
1:B:498:G:O3'	1:B:498:G:H3'	1.83	0.75
1:B:670:A:HO3'	1:B:671:C:H5"	1.48	0.75
1:B:901:C:C1'	1:B:901:C:C6	2.69	0.75
1:B:1024:G:O5'	1:B:2467:C:O3'	2.05	0.75
1:B:1390:U:C1'	1:B:1390:U:C6	2.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1397:U:H5”	1:B:1398:C:OP2	1.87	0.75
1:B:1426:G:P	1:B:1567:G:C3’	2.74	0.75
1:B:1663:G:H5”	1:B:1664:A:P	2.27	0.75
1:B:1672:A:C5	1:B:1673:G:H2’	2.21	0.75
1:B:2054:A:OP1	1:B:2055:C:H6	1.66	0.75
1:B:2067:G:C5’	1:B:2439:A:OP2	2.34	0.75
1:B:2103:C:C4’	1:B:2104:C:OP2	2.35	0.75
1:B:2146:C:C1’	1:B:2146:C:C6	2.68	0.75
1:B:2719:G:H5”	1:B:2720:U:C5	2.20	0.75
1:B:2726:A:H4’	1:B:2727:A:H4’	1.68	0.75
1:B:2732:G:C8	1:B:2771:C:C5	2.74	0.75
1:B:11:C:C1’	1:B:11:C:C2	2.70	0.75
1:B:15:G:C5’	1:B:15:G:H4’	2.09	0.75
1:B:135:U:H5”	1:B:168:G:O3’	1.87	0.75
1:B:526:A:H2	1:B:527:C:C5’	1.99	0.75
1:B:527:C:C1’	1:B:527:C:C6	2.68	0.75
1:B:530:G:C5’	1:B:948:C:O3’	2.35	0.75
1:B:571:U:C1’	1:B:571:U:C6	2.68	0.75
1:B:650:C:H5	1:B:652:U:OP2	1.70	0.75
1:B:839:U:H5”	1:B:961:C:N4	2.01	0.75
1:B:846:U:C1’	1:B:846:U:C6	2.69	0.75
1:B:857:G:N2	1:B:912:C:H3’	2.02	0.75
1:B:913:U:H5	1:B:917:A:N9	1.82	0.75
1:B:957:C:C1’	1:B:957:C:C6	2.67	0.75
1:B:1028:A:H1’	1:B:1144:A:N3	2.01	0.75
1:B:1047:G:C5’	1:B:1049:C:O2’	2.35	0.75
1:B:1284:A:P	1:B:2012:G:C2’	2.65	0.75
1:B:1466:U:C1’	1:B:1466:U:C6	2.69	0.75
1:B:1476:U:C1’	1:B:1476:U:C6	2.66	0.75
1:B:1674:G:O5’	1:B:1678:A:N6	2.20	0.75
1:B:1697:G:OP1	1:B:2704:C:C5	2.40	0.75
1:B:1728:C:C1’	1:B:1728:C:C6	2.68	0.75
1:B:1737:G:C5	1:B:1740:G:N2	2.54	0.75
1:B:2111:U:O4’	1:B:2112:G:O5’	2.04	0.75
1:B:2213:U:C1’	1:B:2213:U:C6	2.68	0.75
1:B:2366:A:C4’	1:B:2367:G:H5’	2.17	0.75
1:B:2475:C:C1’	1:B:2475:C:C6	2.69	0.75
1:B:2656:U:OP1	1:B:2656:U:H6	1.68	0.75
1:B:2790:U:C1’	1:B:2790:U:C6	2.67	0.75
1:B:2849:U:P	1:B:2872:A:C3’	2.75	0.75
1:B:47:C:C1’	1:B:47:C:C6	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:A:O3'	1:B:101:A:C4'	2.34	0.75
1:B:203:A:C5'	1:B:204:A:N7	2.50	0.75
1:B:445:C:H2'	1:B:470:A:N3	2.02	0.75
1:B:488:G:H5"	1:B:509:C:C4	2.22	0.75
1:B:574:A:C8	1:B:2042:A:C5'	2.69	0.75
1:B:588:U:C2'	1:B:589:U:C5	2.65	0.75
1:B:601:C:C5'	1:B:602:A:C5'	2.63	0.75
1:B:757:G:C2'	1:B:758:C:O4'	2.33	0.75
1:B:865:C:C1'	1:B:865:C:C6	2.68	0.75
1:B:1140:C:C1'	1:B:1140:C:C6	2.69	0.75
1:B:1211:C:H5'	1:B:1235:G:O2'	1.87	0.75
1:B:1289:C:C1'	1:B:1648:U:C4'	2.65	0.75
1:B:1305:C:H5'	1:B:1646:C:C4	2.22	0.75
1:B:1523:U:H2'	1:B:1523:U:O2	1.87	0.75
1:B:1671:U:C1'	1:B:1671:U:C6	2.67	0.75
1:B:1720:U:O2'	1:B:1721:G:C5'	2.35	0.75
1:B:1870:C:C1'	1:B:1870:C:C2	2.67	0.75
1:B:2058:A:N6	1:B:2068:U:N3	2.34	0.75
1:B:2061:G:P	1:B:2447:G:OP2	2.45	0.75
1:B:2126:A:C5'	1:B:2167:U:H3	2.00	0.75
1:B:2202:U:C2'	1:B:2204:G:C5'	2.65	0.75
1:B:2286:G:N2	1:B:2344:U:O2	2.19	0.75
1:B:2310:C:C1'	1:B:2310:C:C6	2.68	0.75
1:B:2345:G:C2'	1:B:2382:G:H1'	2.16	0.75
1:B:2448:A:C4	1:B:2449:5MU:C2	2.75	0.75
1:B:2452:C:C1'	1:B:2452:C:C6	2.68	0.75
1:B:2791:G:P	1:B:2891:U:H5'	2.27	0.75
1:B:2809:A:O2'	1:B:2810:A:O4'	2.05	0.75
1:B:2849:U:C5'	1:B:2872:A:H3'	2.16	0.75
1:B:23:G:OP2	1:B:512:G:P	2.44	0.74
1:B:27:G:H3'	1:B:1249:U:H1'	1.69	0.74
1:B:47:C:C1'	1:B:47:C:C2	2.67	0.74
1:B:63:A:H5'	1:B:64:A:OP2	1.86	0.74
1:B:148:U:C4'	1:B:149:A:O5'	2.34	0.74
1:B:323:C:H2'	1:B:324:A:P	2.25	0.74
1:B:585:G:O3'	1:B:1196:C:O5'	2.05	0.74
1:B:685:A:O4'	1:B:788:A:H8	1.70	0.74
1:B:856:G:C3'	1:B:857:G:P	2.74	0.74
1:B:906:U:O2	1:B:906:U:H2'	1.87	0.74
1:B:982:C:C5	1:B:983:A:N7	2.55	0.74
1:B:1020:A:C5	1:B:1133:A:OP2	2.40	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1232:G:H5”	1:B:1237:A:P	2.26	0.74
1:B:1283:G:C5’	1:B:2012:G:N2	2.49	0.74
1:B:1536:C:C1’	1:B:1536:C:C6	2.67	0.74
1:B:1673:G:H5”	1:B:1680:U:N3	2.02	0.74
1:B:1854:A:N6	1:B:1859:U:O2’	2.20	0.74
1:B:2197:U:C1’	1:B:2197:U:C6	2.67	0.74
1:B:2566:A:H5”	1:B:2567:G:C8	2.22	0.74
1:B:2713:U:O2’	1:B:2714:G:H5”	1.87	0.74
1:B:445:C:C3’	1:B:470:A:N3	2.50	0.74
1:B:489:G:H3’	1:B:491:G:C8	2.22	0.74
1:B:1016:G:H3’	1:B:2753:A:C8	2.22	0.74
1:B:1074:G:C2’	1:B:1075:C:O5’	2.34	0.74
1:B:1453:A:H2’	1:B:1525:A:H5”	1.67	0.74
1:B:1668:A:C5’	1:B:1669:A:P	2.75	0.74
1:B:1753:G:C5’	1:B:1988:G:O2’	2.35	0.74
1:B:1789:A:O3’	1:B:1971:U:C5’	2.32	0.74
1:B:1814:G:H4’	1:B:1815:A:H2	1.52	0.74
1:B:1925:C:C1’	1:B:1925:C:C6	2.66	0.74
1:B:1990:C:O3’	1:B:1990:C:C2’	2.34	0.74
1:B:2422:C:C1’	1:B:2422:C:C6	2.67	0.74
1:B:2493:U:C1’	1:B:2493:U:C6	2.69	0.74
1:B:2858:C:C1’	1:B:2858:C:C6	2.68	0.74
1:B:91:A:C2’	1:B:498:G:C5	2.70	0.74
1:B:269:C:C1’	1:B:269:C:C2	2.70	0.74
1:B:455:C:C4’	1:B:456:C:H5”	2.18	0.74
1:B:488:G:H5’	1:B:509:C:C2	2.23	0.74
1:B:531:C:C1’	1:B:531:C:C6	2.68	0.74
1:B:673:C:C1’	1:B:673:C:C6	2.67	0.74
1:B:890:C:C1’	1:B:890:C:C6	2.67	0.74
1:B:983:A:OP2	1:B:984:A:N7	2.19	0.74
1:B:1417:C:C1’	1:B:1466:U:H5”	2.17	0.74
1:B:1464:G:O6	1:B:1544:A:C2’	2.36	0.74
1:B:1568:G:C8	1:B:1569:A:C5’	2.69	0.74
1:B:1607:C:C1’	1:B:1607:C:C6	2.68	0.74
1:B:1751:U:OP1	1:B:1752:C:H5’	1.87	0.74
1:B:1859:U:C1’	1:B:1859:U:C6	2.68	0.74
1:B:1870:C:C1’	1:B:1870:C:C6	2.69	0.74
1:B:1905:C:H4’	1:B:1927:A:H4’	0.75	0.74
1:B:1933:G:H5”	1:B:1941:C:C6	2.21	0.74
1:B:1933:G:C2’	1:B:1939:5MU:O5’	2.34	0.74
1:B:1955:U:C1’	1:B:1955:U:C6	2.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1967:C:C1'	1:B:1967:C:C6	2.69	0.74
1:B:2055:C:C1'	1:B:2055:C:C2	2.69	0.74
1:B:2131:U:C1'	1:B:2131:U:C6	2.68	0.74
1:B:2157:G:H2'	1:B:2158:A:OP2	1.88	0.74
1:B:2172:U:O2'	1:B:2173:A:H5'	1.87	0.74
1:B:2752:C:C1'	1:B:2752:C:C6	2.68	0.74
1:B:84:A:C4'	1:B:88:G:N2	2.50	0.74
1:B:215:G:C8	1:B:216:A:C8	2.75	0.74
1:B:215:G:O3'	1:B:219:A:OP2	2.05	0.74
1:B:229:C:C1'	1:B:229:C:C2	2.70	0.74
1:B:255:A:N1	1:B:276:U:OP1	2.20	0.74
1:B:385:C:C1'	1:B:385:C:C6	2.69	0.74
1:B:451:U:C1'	1:B:451:U:C6	2.70	0.74
1:B:653:U:C1'	1:B:653:U:C6	2.69	0.74
1:B:676:A:P	1:B:1250:G:C8	2.81	0.74
1:B:802:A:C2'	1:B:1254:A:H4'	2.18	0.74
1:B:913:U:C6	1:B:917:A:C8	2.74	0.74
1:B:1272:A:H2'	1:B:1273:U:C5'	2.16	0.74
1:B:1283:G:C3'	1:B:2012:G:H21	1.99	0.74
1:B:1426:G:O5'	1:B:1567:G:H2'	1.88	0.74
1:B:1445:G:C5'	1:B:1446:C:C6	2.71	0.74
1:B:1453:A:OP1	1:B:1526:C:H5'	1.87	0.74
1:B:1581:G:C2'	1:B:1582:C:H5'	2.17	0.74
1:B:1585:C:C1'	1:B:1585:C:C6	2.68	0.74
1:B:1675:C:C1'	1:B:1675:C:C6	2.69	0.74
1:B:1721:G:C2'	1:B:1739:A:N7	2.49	0.74
1:B:1778:U:HO2'	1:B:2556:C:C1'	1.99	0.74
1:B:1833:C:H2'	1:B:1931:U:H5"	1.69	0.74
1:B:1847:A:C4	1:B:2232:C:H5'	2.22	0.74
1:B:1857:G:C5'	1:B:1857:G:H4'	2.10	0.74
1:B:1935:G:O3'	1:B:1935:G:C4'	2.34	0.74
1:B:1938:A:O3'	1:B:1941:C:H5	1.71	0.74
1:B:2265:U:C1'	1:B:2265:U:C6	2.70	0.74
1:B:2309:A:H3'	1:B:2310:C:C6	2.22	0.74
1:B:2529:G:H21	1:B:2532:G:H8	1.32	0.74
1:B:2805:C:H2'	1:B:2806:C:O4'	1.87	0.74
1:B:113:U:O3'	1:B:113:U:O2	2.05	0.74
1:B:201:C:H2'	1:B:203:A:P	2.26	0.74
1:B:225:C:O2'	1:B:431:U:H5"	1.87	0.74
1:B:239:C:OP1	1:B:240:C:H5'	1.87	0.74
1:B:271:G:C4'	1:B:2156:G:O6	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:A:H2'	1:B:413:C:H5	1.51	0.74
1:B:430:A:C4	1:B:431:U:C5	2.76	0.74
1:B:448:U:C2'	1:B:478:A:HO2'	1.98	0.74
1:B:500:G:N7	1:B:504:A:C5'	2.51	0.74
1:B:538:A:H2'	1:B:539:G:H8	0.89	0.74
1:B:1655:A:C3'	1:B:1656:C:C5'	2.65	0.74
1:B:1676:A:OP2	1:B:1677:A:H3'	1.87	0.74
1:B:1905:C:H5"	1:B:1927:A:HO3'	1.50	0.74
1:B:1950:G:H21	1:B:1951:U:C1'	2.01	0.74
1:B:2117:A:C2	1:B:2172:U:H6	2.04	0.74
1:B:2180:U:C1'	1:B:2180:U:C6	2.68	0.74
1:B:2442:C:O3'	1:B:2443:C:P	2.45	0.74
1:B:2690:U:O2	1:B:2690:U:H2'	1.88	0.74
1:B:2704:C:C1'	1:B:2704:C:C6	2.68	0.74
1:B:15:G:C8	1:B:16:C:O4'	2.41	0.74
1:B:71:A:H2'	1:B:100:U:O2'	1.87	0.74
1:B:87:U:H4'	1:B:497:A:OP1	1.88	0.74
1:B:258:G:O6	1:B:277:G:OP2	2.05	0.74
1:B:385:C:C2'	1:B:386:G:C8	2.71	0.74
1:B:390:U:C5'	1:B:405:U:OP2	2.36	0.74
1:B:500:G:N7	1:B:504:A:C3'	2.45	0.74
1:B:574:A:C4'	1:B:2043:C:O2'	2.35	0.74
1:B:585:G:C3'	1:B:1196:C:O5'	2.35	0.74
1:B:646:U:C1'	1:B:646:U:C6	2.69	0.74
1:B:669:G:H4'	1:B:669:G:H5"	1.64	0.74
1:B:861:A:C4'	1:B:861:A:O3'	2.36	0.74
1:B:1023:U:C5	1:B:2481:G:O2'	2.41	0.74
1:B:1270:C:O3'	1:B:1648:U:OP2	2.05	0.74
1:B:1416:G:C5'	1:B:1637:A:OP1	2.34	0.74
1:B:1449:G:H5"	1:B:1587:G:H4'	1.70	0.74
1:B:1451:C:C1'	1:B:1451:C:C6	2.70	0.74
1:B:1452:G:C1'	1:B:1461:C:H1'	2.17	0.74
1:B:1796:U:H3	1:B:1823:G:H1	1.33	0.74
1:B:1814:G:H3'	1:B:1815:A:N3	2.03	0.74
1:B:1870:C:C2	1:B:1871:A:N7	2.55	0.74
1:B:2067:G:O2'	1:B:2068:U:O2	1.92	0.74
1:B:2483:C:C1'	1:B:2483:C:C6	2.67	0.74
1:B:2488:G:H4'	1:B:2505:G:H2'	1.67	0.74
1:B:2497:A:O2'	1:B:2657:A:N6	2.21	0.74
1:B:2725:A:H5'	1:B:2728:U:H4'	0.80	0.74
1:B:28:A:N3	1:B:674:G:H5"	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:99:U:C4’	1:B:102:U:C1’	2.63	0.74
1:B:216:A:C8	1:B:257:C:C4	2.76	0.74
1:B:446:G:H5”	1:B:472:A:H5’	0.76	0.74
1:B:449:A:H3’	1:B:452:G:N3	2.03	0.74
1:B:528:A:N6	1:B:564:C:C4	2.55	0.74
1:B:574:A:N3	1:B:2039:U:O5’	2.20	0.74
1:B:576:U:H2’	1:B:2019:A:OP1	1.87	0.74
1:B:675:A:C3’	1:B:1250:G:H8	2.01	0.74
1:B:858:G:H4’	1:B:859:G:OP2	1.88	0.74
1:B:1040:A:N6	1:B:1045:C:H2’	2.03	0.74
1:B:1116:G:O5’	1:B:2749:A:H3’	1.85	0.74
1:B:1135:C:C1’	1:B:1135:C:C6	2.69	0.74
1:B:1689:A:N7	1:B:1694:C:H5”	2.03	0.74
1:B:1755:A:H5”	1:B:1764:C:H1’	1.68	0.74
1:B:1855:U:N3	1:B:1885:A:O2’	2.19	0.74
1:B:1900:A:C2’	1:B:1901:A:N7	2.45	0.74
1:B:1990:C:C1’	1:B:1990:C:C6	2.68	0.74
1:B:2016:U:H3’	1:B:2017:U:C6	2.23	0.74
1:B:2022:U:C1’	1:B:2022:U:C6	2.69	0.74
1:B:2111:U:H2’	1:B:2113:U:P	2.28	0.74
1:B:2113:U:C6	1:B:2120:G:C8	2.76	0.74
1:B:2406:A:C5’	1:B:2406:A:O4’	2.36	0.74
1:B:2488:G:C4’	1:B:2505:G:H2’	2.18	0.74
1:B:2766:A:H2’	1:B:2767:C:C4’	2.17	0.74
1:B:2870:C:C1’	1:B:2870:C:C6	2.67	0.74
1:B:450:G:C1’	1:B:452:G:O2’	2.36	0.74
1:B:501:A:O5’	1:B:503:A:H1’	1.88	0.74
1:B:686:U:H5’	1:B:687:C:H5	1.52	0.74
1:B:850:U:O3’	1:B:851:C:H5’	1.87	0.74
1:B:961:C:H5”	1:B:962:G:O4’	1.88	0.74
1:B:1202:G:H1’	1:B:1203:U:H5	1.52	0.74
1:B:1395:A:H5”	1:B:1396:U:H5’	0.86	0.74
1:B:1856:U:C5’	1:B:1856:U:O4’	2.36	0.74
1:B:1870:C:C5	1:B:1872:A:N1	2.55	0.74
1:B:1886:U:H2’	1:B:1888:G:OP1	1.86	0.74
1:B:1965:C:C1’	1:B:1965:C:C6	2.68	0.74
1:B:2111:U:O2’	1:B:2113:U:P	2.45	0.74
1:B:2113:U:C1’	1:B:2113:U:C6	2.67	0.74
1:B:2158:A:H3’	1:B:2159:G:C5’	2.16	0.74
1:B:2806:C:C1’	1:B:2806:C:C6	2.70	0.74
1:B:2887:A:C2	1:B:2889:C:C5	2.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2887:A:C2	1:B:2889:C:H5	2.06	0.74
1:B:75:G:H3'	1:B:119:A:C4'	2.18	0.74
1:B:213:A:N6	1:B:218:A:H8	1.85	0.74
1:B:233:A:C2'	1:B:234:U:H5"	2.18	0.74
1:B:482:A:N7	1:B:513:A:H2	1.86	0.74
1:B:567:U:H2'	1:B:834:G:OP1	1.88	0.74
1:B:913:U:O4	1:B:917:A:C3'	2.36	0.74
1:B:1133:A:H1'	1:B:1142:A:C2	2.21	0.74
1:B:1359:A:H5"	1:B:1360:G:OP2	1.88	0.74
1:B:1761:C:C1'	1:B:1761:C:C6	2.69	0.74
1:B:2167:U:C6	1:B:2169:A:C5'	2.69	0.74
1:B:2272:U:C1'	1:B:2272:U:C6	2.68	0.74
1:B:2492:U:H2'	1:B:2493:U:H5"	1.70	0.74
1:B:2756:U:C1'	1:B:2756:U:C6	2.67	0.74
1:B:2799:A:H2	1:B:2894:G:O4'	1.70	0.74
1:B:15:G:C1'	1:B:1256:G:C4'	2.61	0.74
1:B:62:U:C1'	1:B:62:U:C6	2.67	0.74
1:B:71:A:O2'	1:B:113:U:C5'	2.36	0.74
1:B:120:U:C1'	1:B:120:U:C2	2.69	0.74
1:B:135:U:H5"	1:B:168:G:C2'	2.18	0.74
1:B:335:C:H4'	1:B:341:C:H41	1.45	0.74
1:B:430:A:C5	1:B:431:U:C4	2.76	0.74
1:B:1329:U:H4'	1:B:1330:C:H6	1.52	0.74
1:B:1528:A:C2'	1:B:1528:A:O3'	2.36	0.74
1:B:1581:G:C2'	1:B:1582:C:C5'	2.66	0.74
1:B:1674:G:C8	1:B:1675:C:O5'	2.34	0.74
1:B:1697:G:OP1	1:B:2704:C:C4	2.41	0.74
1:B:1791:A:H4'	1:B:1942:C:C6	2.23	0.74
1:B:1800:C:C1'	1:B:1800:C:C6	2.67	0.74
1:B:1869:G:C2'	1:B:2159:G:OP1	2.36	0.74
1:B:1990:C:H3'	1:B:1991:U:H5'	1.70	0.74
1:B:2055:C:C1'	1:B:2055:C:C6	2.71	0.74
1:B:2305:U:C1'	1:B:2305:U:C6	2.68	0.74
1:B:2497:A:O2'	1:B:2665:A:C1'	2.36	0.74
1:B:2596:U:C1'	1:B:2596:U:C6	2.68	0.74
1:B:2766:A:H2'	1:B:2767:C:H5'	0.74	0.74
1:B:98:G:C4	1:B:102:U:C5	2.76	0.73
1:B:187:G:O2'	1:B:218:A:O5'	2.05	0.73
1:B:203:A:H5'	1:B:204:A:N7	2.03	0.73
1:B:332:A:C2	1:B:333:G:O4'	2.41	0.73
1:B:560:C:HO2'	1:B:561:G:H5'	1.50	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:645:C:O2	1:B:645:C:H2'	1.86	0.73
1:B:833:A:O2'	1:B:977:G:O3'	2.02	0.73
1:B:972:A:P	1:B:972:A:HO5'	2.11	0.73
1:B:1046:A:C3'	1:B:1049:C:O3'	2.36	0.73
1:B:1289:C:O4'	1:B:1648:U:O3'	2.06	0.73
1:B:1290:C:C5'	1:B:1647:U:OP1	2.36	0.73
1:B:1428:C:C3'	1:B:1429:G:C5'	2.59	0.73
1:B:1451:C:C1'	1:B:1457:U:O4	2.34	0.73
1:B:1469:A:C8	1:B:1473:G:OP1	2.41	0.73
1:B:1694:C:C1'	1:B:1694:C:C6	2.69	0.73
1:B:1885:A:P	1:B:1885:A:O3'	2.46	0.73
1:B:1962:C:C1'	1:B:1962:C:C6	2.68	0.73
1:B:2103:C:C5'	1:B:2104:C:OP2	2.36	0.73
1:B:2111:U:C1'	1:B:2112:G:C5'	2.66	0.73
1:B:2130:U:C1'	1:B:2130:U:C6	2.67	0.73
1:B:2374:C:O3'	1:B:2413:G:C3'	2.35	0.73
1:B:2469:A:H5"	1:B:2476:A:H62	1.52	0.73
1:B:2473:U:C1'	1:B:2473:U:C6	2.67	0.73
1:B:2500:U:C1'	1:B:2500:U:C6	2.67	0.73
1:B:2556:C:O3'	1:B:2557:G:O5'	2.04	0.73
1:B:2779:U:C1'	1:B:2779:U:C6	2.68	0.73
1:B:88:G:H5"	1:B:93:G:N2	2.02	0.73
1:B:137:U:H1'	1:B:1325:U:C4'	2.17	0.73
1:B:214:G:O3'	1:B:219:A:OP1	2.06	0.73
1:B:276:U:O3'	1:B:276:U:C2'	2.36	0.73
1:B:423:A:C3'	1:B:424:G:C5'	2.15	0.73
1:B:601:C:P	1:B:602:A:C5'	2.74	0.73
1:B:827:U:C2'	1:B:828:U:C5	2.64	0.73
1:B:835:C:C5'	1:B:836:G:OP1	2.33	0.73
1:B:842:U:O4	1:B:932:U:H1'	1.87	0.73
1:B:1376:C:O3'	1:B:1379:U:H5	1.72	0.73
1:B:1719:G:O2'	1:B:1720:U:H5"	1.88	0.73
1:B:1720:U:C2'	1:B:1721:G:C5'	2.66	0.73
1:B:1887:C:C1'	1:B:1887:C:C6	2.69	0.73
1:B:2365:G:OP2	1:B:2366:A:H2'	1.88	0.73
1:B:2445:G:H5'	1:B:2555:U:C5	2.23	0.73
1:B:2808:G:H1'	1:B:2809:A:C8	2.24	0.73
1:B:2871:U:H4'	1:B:2871:U:H5'	1.63	0.73
1:B:2884:U:O4	1:B:2888:C:N4	2.21	0.73
1:B:2894:G:C3'	1:B:2895:G:C5'	2.36	0.73
1:B:60:G:HO3'	1:B:61:C:P	2.11	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:G:O2'	1:B:119:A:P	2.45	0.73
1:B:196:A:H2'	1:B:198:C:N4	2.02	0.73
1:B:456:C:C1'	1:B:456:C:C6	2.68	0.73
1:B:747:5MU:C4	1:B:748:G:N7	2.56	0.73
1:B:798:G:OP1	1:B:802:A:P	2.46	0.73
1:B:845:A:OP1	1:B:848:C:C5	2.41	0.73
1:B:1045:C:H41	1:B:1051:G:H4'	1.51	0.73
1:B:1196:C:C1'	1:B:1196:C:C2	2.68	0.73
1:B:1371:G:H21	1:B:1372:U:H5"	1.50	0.73
1:B:1427:A:OP2	1:B:1572:A:H2'	1.87	0.73
1:B:1445:G:OP1	1:B:1446:C:H1'	1.87	0.73
1:B:1934:C:C5'	1:B:1935:G:P	2.76	0.73
1:B:1971:U:C5	1:B:2554:U:C5'	2.69	0.73
1:B:2060:A:O3'	1:B:2446:G:O5'	2.06	0.73
1:B:2306:C:C1'	1:B:2306:C:C6	2.67	0.73
1:B:2465:C:OP1	1:B:2468:A:C4	2.41	0.73
1:B:93:G:C2'	1:B:498:G:H5"	2.03	0.73
1:B:99:U:C2	1:B:102:U:C5'	2.70	0.73
1:B:229:C:H2'	1:B:229:C:O2	1.88	0.73
1:B:275:C:C5'	1:B:275:C:C3'	2.65	0.73
1:B:310:A:H2'	1:B:483:A:N6	2.03	0.73
1:B:451:U:H3'	1:B:453:A:OP2	1.88	0.73
1:B:668:A:C3'	1:B:669:G:P	2.75	0.73
1:B:673:C:H2'	1:B:673:C:O2	1.88	0.73
1:B:840:C:C1'	1:B:963:U:C4'	2.65	0.73
1:B:861:A:C3'	1:B:862:G:P	2.77	0.73
1:B:1050:A:O3'	1:B:1050:A:C4'	2.35	0.73
1:B:1284:A:C5'	1:B:2012:G:H1'	2.18	0.73
1:B:1543:G:H3'	1:B:1545:A:N1	2.03	0.73
1:B:1654:A:C2'	1:B:1655:A:C2	2.63	0.73
1:B:1818:U:C1'	1:B:1818:U:C6	2.67	0.73
1:B:1852:U:N1	1:B:1885:A:C8	2.57	0.73
1:B:1914:C:C1'	1:B:1914:C:C6	2.68	0.73
1:B:1931:U:C5'	1:B:1935:G:P	2.77	0.73
1:B:1934:C:C5'	1:B:1934:C:O3'	2.36	0.73
1:B:2007:U:O5'	1:B:2846:G:O6	2.05	0.73
1:B:2067:G:H2'	1:B:2068:U:H3	1.50	0.73
1:B:2085:U:O2'	1:B:2086:U:O5'	2.07	0.73
1:B:2118:U:O2	1:B:2120:G:OP1	2.06	0.73
1:B:2126:A:H5'	1:B:2167:U:N3	2.02	0.73
1:B:2211:A:O2'	1:B:2212:A:H8	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2319:G:C8	1:B:2322:A:C6	2.72	0.73
1:B:2628:C:C1'	1:B:2628:C:C6	2.69	0.73
1:B:2787:C:C5'	1:B:2813:A:H5'	2.17	0.73
1:B:22:C:O3'	1:B:511:U:O2'	2.05	0.73
1:B:110:G:C3'	1:B:111:A:OP2	2.36	0.73
1:B:201:C:O2'	1:B:202:U:O5'	2.04	0.73
1:B:239:C:OP1	1:B:274:C:H3'	1.88	0.73
1:B:264:C:O5'	1:B:369:U:H2'	1.89	0.73
1:B:460:A:N7	1:B:592:A:O3'	2.22	0.73
1:B:500:G:C5	1:B:504:A:C5'	2.71	0.73
1:B:597:G:O2'	1:B:937:C:OP1	2.06	0.73
1:B:746:PSU:H5"	1:B:747:5MU:H72	1.67	0.73
1:B:787:C:H2'	1:B:788:A:C5'	2.17	0.73
1:B:803:U:C6	1:B:1255:U:O5'	2.41	0.73
1:B:803:U:P	1:B:1254:A:O5'	2.46	0.73
1:B:845:A:O2'	1:B:846:U:P	2.47	0.73
1:B:898:C:H2'	1:B:899:A:C5'	2.17	0.73
1:B:915:C:OP2	1:B:916:G:O2'	2.07	0.73
1:B:931:U:H5'	1:B:933:A:O2'	1.87	0.73
1:B:961:C:H5"	1:B:962:G:H8	1.46	0.73
1:B:1189:A:C3'	1:B:1190:G:H5'	2.19	0.73
1:B:1452:G:OP2	1:B:1526:C:C6	2.41	0.73
1:B:1571:A:C2	1:B:1572:A:O5'	2.41	0.73
1:B:1732:C:C1'	1:B:1732:C:C6	2.67	0.73
1:B:1757:A:H1'	1:B:1760:C:O2	1.88	0.73
1:B:1928:A:H5'	1:B:1938:A:OP2	1.88	0.73
1:B:1953:A:N6	1:B:2057:G:H1'	2.02	0.73
1:B:1963:U:O2	1:B:1964:G:C5'	2.34	0.73
1:B:1992:G:C4'	1:B:1993:U:O4'	2.37	0.73
1:B:2061:G:N2	1:B:2553:G:O5'	2.21	0.73
1:B:2394:C:C1'	1:B:2394:C:C2	2.69	0.73
1:B:2530:A:N1	1:B:2531:A:N6	2.36	0.73
1:B:2575:C:H5'	1:B:2576:G:C5'	2.19	0.73
1:B:129:C:OP1	1:B:1327:A:C6	2.42	0.73
1:B:161:A:H2'	1:B:162:U:H6	1.53	0.73
1:B:383:C:C1'	1:B:383:C:C6	2.67	0.73
1:B:764:A:C4'	1:B:765:C:H5'	2.18	0.73
1:B:847:U:C1'	1:B:847:U:C6	2.67	0.73
1:B:1173:U:C1'	1:B:1173:U:C6	2.67	0.73
1:B:1523:U:C1'	1:B:1523:U:C6	2.69	0.73
1:B:1866:A:C5'	1:B:1866:A:O4'	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1936:A:C4'	1:B:1939:5MU:OP2	2.36	0.73
1:B:2061:G:N2	1:B:2553:G:H3'	2.04	0.73
1:B:2364:C:C2'	1:B:2366:A:HO2'	2.01	0.73
1:B:2653:U:C1'	1:B:2653:U:C6	2.71	0.73
1:B:249:C:C1'	1:B:249:C:C6	2.68	0.73
1:B:311:A:C8	1:B:483:A:N6	2.48	0.73
1:B:423:A:H5'	1:B:424:G:OP2	1.88	0.73
1:B:744:U:O2	1:B:748:G:H5"	1.86	0.73
1:B:971:G:H1'	1:B:972:A:H2	1.46	0.73
1:B:1007:C:C1'	1:B:1007:C:C6	2.67	0.73
1:B:1263:U:O2	1:B:1269:A:H5'	1.88	0.73
1:B:1417:C:C1'	1:B:1417:C:C6	2.70	0.73
1:B:1544:A:H5'	1:B:1545:A:OP1	1.88	0.73
1:B:1554:U:C1'	1:B:1554:U:C6	2.70	0.73
1:B:1763:G:C3'	1:B:1764:C:C5'	2.62	0.73
1:B:1856:U:H4'	1:B:1886:U:C1'	2.19	0.73
1:B:1905:C:C5'	1:B:1927:A:C3'	2.66	0.73
1:B:1963:U:O2	1:B:1963:U:H2'	1.88	0.73
1:B:2226:C:C1'	1:B:2226:C:C2	2.72	0.73
1:B:2685:G:C1'	1:B:2722:G:N3	2.51	0.73
1:B:2689:U:OP2	1:B:2725:A:H4'	1.89	0.73
1:B:2859:G:N7	1:B:2860:A:C8	2.57	0.73
1:B:2882:A:H3'	1:B:2883:A:C2	2.23	0.73
1:B:15:G:H5"	1:B:1197:G:C2'	2.19	0.73
1:B:113:U:OP1	1:B:119:A:C8	2.41	0.73
1:B:183:C:C1'	1:B:183:C:C6	2.70	0.73
1:B:264:C:C5'	1:B:369:U:O2	2.37	0.73
1:B:279:A:H2'	1:B:280:U:OP2	1.88	0.73
1:B:448:U:O2'	1:B:478:A:O2'	2.04	0.73
1:B:450:G:H3'	1:B:451:U:C5'	2.17	0.73
1:B:455:C:C5'	1:B:456:C:H5"	2.18	0.73
1:B:500:G:C8	1:B:504:A:O3'	2.41	0.73
1:B:1010:A:C5'	1:B:1011:G:N7	2.52	0.73
1:B:1196:C:C1'	1:B:1196:C:C6	2.70	0.73
1:B:1273:U:C1'	1:B:1273:U:C6	2.67	0.73
1:B:1426:G:OP2	1:B:1566:A:H1'	1.88	0.73
1:B:1645:G:H4'	1:B:1646:C:OP2	1.86	0.73
1:B:1752:C:C1'	1:B:1752:C:C6	2.68	0.73
1:B:1855:U:O3'	1:B:1855:U:H3'	1.85	0.73
1:B:1871:A:N3	1:B:2132:U:H5"	2.01	0.73
1:B:1936:A:N9	1:B:1938:A:C8	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1944:U:O2'	1:B:1945:G:H5"	1.87	0.73
1:B:1967:C:OP2	1:B:1968:G:C5'	2.37	0.73
1:B:1971:U:O4	1:B:2061:G:O3'	2.07	0.73
1:B:2021:C:C1'	1:B:2021:C:C6	2.70	0.73
1:B:2323:G:N2	1:B:2334:U:C5	2.56	0.73
1:B:2493:U:C4'	1:B:2494:G:C8	2.71	0.73
1:B:2720:U:O2'	1:B:2721:A:H4'	1.89	0.73
1:B:64:A:C2	1:B:68:G:N2	2.56	0.73
1:B:99:U:C2	1:B:102:U:C4'	2.71	0.73
1:B:217:A:O5'	1:B:218:A:O5'	2.07	0.73
1:B:217:A:OP1	1:B:257:C:C4'	2.37	0.73
1:B:222:A:H5'	1:B:262:A:H61	1.51	0.73
1:B:239:C:H5"	1:B:275:C:P	2.28	0.73
1:B:275:C:C5'	1:B:275:C:O4'	2.37	0.73
1:B:488:G:C2'	1:B:510:C:N4	2.50	0.73
1:B:510:C:H5"	1:B:511:U:N1	2.04	0.73
1:B:608:A:H2'	1:B:609:A:OP2	1.87	0.73
1:B:672:C:H5	1:B:1251:C:H41	1.37	0.73
1:B:676:A:OP2	1:B:676:A:C2	2.42	0.73
1:B:746:PSU:H3'	1:B:747:5MU:C5'	2.19	0.73
1:B:811:U:C1'	1:B:811:U:C2	2.71	0.73
1:B:1130:U:C3'	1:B:2753:A:P	2.77	0.73
1:B:1213:A:H3'	1:B:1235:G:O6	1.89	0.73
1:B:1653:G:C2'	1:B:1654:A:H3'	2.19	0.73
1:B:1875:G:H5'	1:B:1876:A:C8	2.24	0.73
1:B:1932:A:C8	1:B:1938:A:C5'	2.72	0.73
1:B:1944:U:H2'	1:B:1945:G:H4'	0.78	0.73
1:B:2541:A:H2'	1:B:2543:G:N7	2.03	0.73
1:B:2689:U:C1'	1:B:2689:U:C6	2.67	0.73
1:B:2790:U:O2'	1:B:2891:U:H5"	1.89	0.73
1:B:2848:G:H2'	1:B:2872:A:P	2.27	0.73
1:B:76:C:C4	1:B:119:A:C2'	2.72	0.73
1:B:99:U:O2	1:B:102:U:H5'	1.88	0.73
1:B:220:G:H1'	1:B:258:G:N7	2.03	0.73
1:B:294:A:C4	1:B:326:G:N2	2.56	0.73
1:B:735:A:H1'	1:B:736:C:C5	2.24	0.73
1:B:764:A:N6	1:B:1948:G:C1'	2.48	0.73
1:B:845:A:H4'	1:B:846:U:O5'	1.89	0.73
1:B:1719:G:H4'	1:B:1720:U:O5'	1.89	0.73
1:B:1853:A:C1'	1:B:1888:G:H8	1.97	0.73
1:B:1885:A:C4'	1:B:1886:U:C5	2.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1938:A:H5"	1:B:1941:C:N4	2.02	0.73
1:B:2051:A:H8	1:B:2609:U:OP2	1.71	0.73
1:B:2061:G:OP1	1:B:2447:G:OP2	2.07	0.73
1:B:2062:A:OP2	1:B:2063:C:N4	2.22	0.73
1:B:2112:G:H4'	1:B:2112:G:H5"	1.70	0.73
1:B:2263:C:OP1	1:B:2424:C:C2	2.42	0.73
1:B:2394:C:C1'	1:B:2394:C:C6	2.71	0.73
1:B:2497:A:C2'	1:B:2665:A:C1'	2.64	0.73
1:B:2791:G:OP2	1:B:2891:U:H3'	1.89	0.73
1:B:12:U:C1'	1:B:12:U:C6	2.69	0.72
1:B:101:A:H3'	1:B:104:A:OP2	1.89	0.72
1:B:311:A:O4'	1:B:483:A:C6	2.42	0.72
1:B:574:A:P	1:B:2044:C:OP1	2.46	0.72
1:B:585:G:H4'	1:B:1196:C:C4'	2.19	0.72
1:B:790:U:C1'	1:B:790:U:C6	2.70	0.72
1:B:792:A:N3	1:B:793:A:C5'	2.51	0.72
1:B:827:U:C1'	1:B:827:U:C6	2.68	0.72
1:B:840:C:C1'	1:B:963:U:H4'	2.09	0.72
1:B:845:A:P	1:B:846:U:H1'	2.29	0.72
1:B:871:U:C6	1:B:871:U:OP2	2.42	0.72
1:B:914:G:C2'	1:B:916:G:O2'	2.29	0.72
1:B:1139:G:H4'	1:B:1140:C:OP1	1.87	0.72
1:B:1223:G:H8	1:B:1224:U:C1'	2.02	0.72
1:B:1853:A:HO3'	1:B:1854:A:P	2.10	0.72
1:B:2068:U:O5'	1:B:2068:U:O4'	2.07	0.72
1:B:2556:C:C1'	1:B:2556:C:C2	2.71	0.72
1:B:84:A:H62	1:B:97:C:N4	1.84	0.72
1:B:142:A:H1'	1:B:1324:G:H22	1.50	0.72
1:B:187:G:O2'	1:B:218:A:C5'	2.37	0.72
1:B:777:G:H22	1:B:788:A:H3'	1.51	0.72
1:B:805:G:OP1	1:B:805:G:C8	2.43	0.72
1:B:1041:G:OP2	1:B:1050:A:O4'	2.07	0.72
1:B:1155:A:C2'	1:B:1156:A:H8	2.01	0.72
1:B:1253:A:O4'	1:B:1254:A:C8	2.42	0.72
1:B:1284:A:C5	1:B:2012:G:OP2	2.42	0.72
1:B:1288:G:C3'	1:B:1648:U:HO2'	2.01	0.72
1:B:1288:G:C5	1:B:1289:C:N4	2.57	0.72
1:B:1510:G:H4'	1:B:1511:G:C8	2.23	0.72
1:B:1570:A:C5	1:B:1572:A:C8	2.78	0.72
1:B:1585:C:C5'	1:B:1586:A:C5'	2.66	0.72
1:B:1674:G:O5'	1:B:1678:A:N1	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1847:A:C5	1:B:2232:C:C5’	2.72	0.72
1:B:2067:G:O5’	1:B:2439:A:H5’	1.88	0.72
1:B:2085:U:HO2’	1:B:2086:U:C5’	2.01	0.72
1:B:2541:A:O3’	1:B:2543:G:OP1	2.07	0.72
1:B:2686:G:C3’	1:B:2722:G:N2	2.51	0.72
1:B:2820:A:HO2’	1:B:2821:A:P	2.11	0.72
1:B:93:G:H2’	1:B:498:G:O5’	1.89	0.72
1:B:294:A:O2’	1:B:327:G:C1’	2.34	0.72
1:B:311:A:O4’	1:B:483:A:N6	2.21	0.72
1:B:321:U:P	1:B:324:A:C1’	2.78	0.72
1:B:447:A:O2’	1:B:479:A:H1’	1.88	0.72
1:B:477:A:O3’	1:B:477:A:H3’	1.85	0.72
1:B:483:A:N3	1:B:484:C:C5’	2.45	0.72
1:B:562:U:C1’	1:B:562:U:C6	2.67	0.72
1:B:764:A:C4’	1:B:765:C:P	2.77	0.72
1:B:803:U:C1’	1:B:803:U:C6	2.71	0.72
1:B:820:A:O3’	1:B:2628:C:C2’	2.35	0.72
1:B:838:C:OP2	1:B:975:A:O2’	2.04	0.72
1:B:842:U:C5	1:B:932:U:C6	2.77	0.72
1:B:1240:U:H5	1:B:1241:A:H8	1.32	0.72
1:B:1286:A:C2	1:B:1287:A:C6	2.76	0.72
1:B:1451:C:C1’	1:B:1451:C:C2	2.69	0.72
1:B:1672:A:C4	1:B:1674:G:OP1	2.41	0.72
1:B:1719:G:O2’	1:B:1722:A:H5’	1.87	0.72
1:B:1728:C:H2’	1:B:1729:U:H5	1.52	0.72
1:B:1737:G:N2	1:B:1738:G:H5’	2.03	0.72
1:B:1753:G:H5”	1:B:1988:G:C2’	2.18	0.72
1:B:1847:A:C5’	1:B:1849:G:OP2	2.36	0.72
1:B:1852:U:C1’	1:B:1852:U:C6	2.69	0.72
1:B:1870:C:O4’	1:B:2159:G:OP2	2.07	0.72
1:B:2214:C:C1’	1:B:2214:C:C6	2.68	0.72
1:B:2283:C:H3’	1:B:2388:A:C5’	2.19	0.72
1:B:2440:C:C1’	1:B:2440:C:C6	2.67	0.72
1:B:2575:C:H5’	1:B:2576:G:H5”	1.71	0.72
1:B:2601:C:H4’	1:B:2602:A:OP1	1.88	0.72
1:B:15:G:C8	1:B:16:C:C4’	2.71	0.72
1:B:27:G:C5’	1:B:27:G:H4’	2.11	0.72
1:B:214:G:H1	1:B:254:G:H2’	1.53	0.72
1:B:216:A:C4’	1:B:218:A:H1’	2.20	0.72
1:B:257:C:C3’	1:B:258:G:H5’	2.18	0.72
1:B:568:U:H1’	1:B:833:A:H5”	0.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:H5"	1:B:2044:C:P	2.28	0.72
1:B:841:G:P	1:B:932:U:H3	2.12	0.72
1:B:860:U:H5"	1:B:861:A:P	2.29	0.72
1:B:926:G:C3'	1:B:927:A:C5'	2.67	0.72
1:B:1022:G:O4'	1:B:2463:C:OP2	2.08	0.72
1:B:1050:A:OP1	1:B:1052:C:H5	1.71	0.72
1:B:1130:U:O2'	1:B:2752:C:C4'	2.38	0.72
1:B:1130:U:H5'	1:B:2752:C:O2'	1.90	0.72
1:B:1131:G:C5'	1:B:1132:U:H5"	2.20	0.72
1:B:1372:U:C1'	1:B:1372:U:C6	2.68	0.72
1:B:1526:C:C1'	1:B:1526:C:C2	2.72	0.72
1:B:2005:A:O2'	1:B:2006:C:H5	1.71	0.72
1:B:2015:A:OP2	1:B:2015:A:C8	2.41	0.72
1:B:2320:U:C4'	1:B:2322:A:H5'	2.18	0.72
1:B:2326:C:C1'	1:B:2326:C:C6	2.69	0.72
1:B:2450:A:O3'	1:B:2561:U:OP1	2.07	0.72
1:B:2453:A:O3'	1:B:2453:A:C2'	2.37	0.72
1:B:2563:U:C4	1:B:2566:A:OP2	2.42	0.72
1:B:2847:U:O3'	1:B:2848:G:N2	2.22	0.72
1:B:93:G:H3'	1:B:498:G:H3'	0.82	0.72
1:B:164:C:C1'	1:B:164:C:C6	2.68	0.72
1:B:215:G:O2'	1:B:256:A:O3'	2.07	0.72
1:B:222:A:OP2	1:B:223:A:N1	2.22	0.72
1:B:369:U:C1'	1:B:369:U:C6	2.70	0.72
1:B:850:U:C3'	1:B:851:C:H6	2.01	0.72
1:B:1936:A:C5'	1:B:1941:C:N4	2.52	0.72
1:B:2806:C:C1'	1:B:2806:C:C2	2.68	0.72
1:B:2848:G:O2'	1:B:2872:A:C5'	2.38	0.72
1:B:2849:U:C3'	1:B:2872:A:H8	1.90	0.72
1:B:67:U:C3'	1:B:68:G:P	2.76	0.72
1:B:71:A:O2'	1:B:113:U:C3'	2.30	0.72
1:B:77:G:OP1	1:B:99:U:C2	2.43	0.72
1:B:120:U:C6	1:B:148:U:OP2	2.43	0.72
1:B:207:A:HO3'	1:B:208:C:P	2.09	0.72
1:B:227:A:C1'	1:B:355:U:OP1	2.37	0.72
1:B:451:U:O2	1:B:451:U:H2'	1.89	0.72
1:B:633:A:H4'	1:B:634:C:C6	2.25	0.72
1:B:926:G:H5"	1:B:927:A:O5'	1.89	0.72
1:B:1117:C:H5"	1:B:2751:G:O5'	1.87	0.72
1:B:1308:A:H8	1:B:1309:G:N7	1.88	0.72
1:B:1402:U:O3'	1:B:1403:A:P	2.47	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1459:G:O6	1:B:1544:A:N9	2.22	0.72
1:B:1568:G:O3'	1:B:1570:A:C5	2.42	0.72
1:B:1581:G:O6	1:B:1630:A:N7	2.22	0.72
1:B:1670:C:N4	1:B:1749:A:O2'	2.22	0.72
1:B:1673:G:H5"	1:B:1680:U:C4	2.25	0.72
1:B:1697:G:OP2	1:B:2702:G:H2'	1.89	0.72
1:B:1739:A:O3'	1:B:1740:G:N2	2.22	0.72
1:B:1780:A:N6	1:B:1784:A:C2	2.53	0.72
1:B:1870:C:C5	1:B:2158:A:O3'	2.42	0.72
1:B:2427:C:C1'	1:B:2427:C:C6	2.68	0.72
1:B:2703:C:C4	1:B:2704:C:C2	2.78	0.72
1:B:221:A:C5	1:B:279:A:C5'	2.70	0.72
1:B:457:A:N3	1:B:458:G:O3'	2.21	0.72
1:B:477:A:H2'	1:B:478:A:OP1	1.89	0.72
1:B:500:G:H8	1:B:501:A:HO2'	0.76	0.72
1:B:1050:A:O5'	1:B:1051:G:OP1	2.07	0.72
1:B:1298:C:H3'	1:B:1339:G:C2	2.25	0.72
1:B:1752:C:C5'	1:B:1988:G:C5'	2.65	0.72
1:B:1934:C:C1'	1:B:1934:C:C2	2.72	0.72
1:B:2374:C:O3'	1:B:2413:G:O3'	2.08	0.72
1:B:2424:C:C1'	1:B:2424:C:C6	2.70	0.72
1:B:2687:U:H2'	1:B:2688:G:O5'	1.88	0.72
1:B:2690:U:H5'	1:B:2727:A:O4'	1.90	0.72
1:B:2720:U:C1'	1:B:2720:U:C6	2.69	0.72
1:B:2819:G:H2'	1:B:2820:A:H5'	1.72	0.72
1:B:71:A:H3'	1:B:105:C:P	2.29	0.72
1:B:75:G:C5'	1:B:113:U:O2'	2.38	0.72
1:B:75:G:C5'	1:B:113:U:P	2.77	0.72
1:B:187:G:H4'	1:B:216:A:O2'	1.89	0.72
1:B:240:C:C1'	1:B:240:C:C2	2.69	0.72
1:B:343:C:OP1	1:B:344:A:C5'	2.38	0.72
1:B:450:G:C6	1:B:592:A:C2	2.77	0.72
1:B:524:G:OP2	1:B:586:A:N3	2.22	0.72
1:B:602:A:P	1:B:602:A:HO5'	2.12	0.72
1:B:1348:C:C1'	1:B:1348:C:C6	2.69	0.72
1:B:1425:G:HO2'	1:B:1567:G:C5'	2.01	0.72
1:B:1558:C:C1'	1:B:1558:C:C6	2.68	0.72
1:B:1574:C:H5"	1:B:1631:G:P	2.29	0.72
1:B:1641:A:C5	1:B:1642:G:C8	2.77	0.72
1:B:1689:A:C4	1:B:1692:U:H5	2.07	0.72
1:B:1696:G:C2'	1:B:2702:G:O3'	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1714:U:C1'	1:B:1714:U:C6	2.69	0.72
1:B:1853:A:H5"	1:B:1857:G:C3'	2.19	0.72
1:B:1855:U:C6	1:B:1855:U:C1'	2.71	0.72
1:B:1942:C:H1'	1:B:2442:C:C1'	2.19	0.72
1:B:2075:U:C2'	1:B:2431:U:H3'	2.19	0.72
1:B:2086:U:H3	1:B:2233:U:H3	1.38	0.72
1:B:2118:U:C1'	1:B:2118:U:C6	2.69	0.72
1:B:2528:U:C3'	1:B:2529:G:H5'	2.20	0.72
1:B:2640:G:H8	1:B:2777:G:H8	1.37	0.72
1:B:2867:G:C2'	1:B:2868:A:N3	2.53	0.72
1:B:70:G:C3'	1:B:71:A:P	2.78	0.72
1:B:73:A:O5'	1:B:113:U:O4'	2.07	0.72
1:B:91:A:H8	1:B:91:A:OP2	1.73	0.72
1:B:92:U:HO2'	1:B:498:G:C3'	2.02	0.72
1:B:99:U:C4'	1:B:102:U:C2	2.72	0.72
1:B:434:U:C3'	1:B:435:C:H5"	2.20	0.72
1:B:507:A:N1	1:B:1246:A:C8	2.58	0.72
1:B:608:A:H5'	1:B:609:A:H8	1.46	0.72
1:B:1305:C:H5"	1:B:1646:C:N3	2.04	0.72
1:B:1426:G:H3'	1:B:1566:A:H2	1.54	0.72
1:B:1516:G:C4'	1:B:1517:G:N7	2.51	0.72
1:B:1632:A:H2	1:B:1633:G:C6	2.08	0.72
1:B:1737:G:C6	1:B:1740:G:N2	2.57	0.72
1:B:1924:C:N4	1:B:1926:U:OP1	2.23	0.72
1:B:2085:U:O2'	1:B:2086:U:H5'	1.89	0.72
1:B:2365:G:O5'	1:B:2366:A:N3	2.23	0.72
1:B:2587:A:C1'	1:B:2587:A:C4	2.71	0.72
1:B:2871:U:C5'	1:B:2872:A:C5'	2.68	0.72
1:B:2873:A:H2'	1:B:2874:C:C5'	2.18	0.72
1:B:124:G:C6	1:B:126:A:H5"	2.24	0.72
1:B:141:G:C5'	1:B:142:A:OP2	2.38	0.72
1:B:216:A:C1'	1:B:216:A:C4	2.72	0.72
1:B:221:A:C2'	1:B:222:A:C3'	2.33	0.72
1:B:447:A:C2	1:B:465:G:C8	2.77	0.72
1:B:500:G:H1'	1:B:505:A:C1'	2.18	0.72
1:B:507:A:C6	1:B:518:G:C5'	2.73	0.72
1:B:1024:G:C5'	1:B:2466:C:OP2	2.38	0.72
1:B:1135:C:C6	1:B:1140:C:O5'	2.42	0.72
1:B:1272:A:O2'	1:B:1273:U:H5"	1.90	0.72
1:B:1351:C:O3'	1:B:1354:A:N6	2.23	0.72
1:B:1427:A:C3'	1:B:1574:C:OP1	2.34	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1583:A:C1'	1:B:1583:A:C4	2.72	0.72
1:B:1597:A:OP2	1:B:1598:A:H4'	1.90	0.72
1:B:1737:G:N7	1:B:1740:G:N2	2.38	0.72
1:B:1885:A:H4'	1:B:1886:U:C4	2.24	0.72
1:B:1972:G:OP2	1:B:2442:C:P	2.48	0.72
1:B:2005:A:O2'	1:B:2006:C:C6	2.43	0.72
1:B:2131:U:H3	1:B:2157:G:P	2.11	0.72
1:B:2645:G:H5'	1:B:2646:C:C4	2.24	0.72
1:B:2686:G:C3'	1:B:2722:G:H22	2.01	0.72
1:B:2763:G:O2'	1:B:2764:A:C5'	2.37	0.72
1:B:2833:U:C5'	1:B:2834:G:OP2	2.37	0.72
1:B:2846:G:H3'	1:B:2846:G:H5'	1.72	0.72
1:B:11:C:C1'	1:B:11:C:C6	2.72	0.71
1:B:73:A:C1'	1:B:73:A:C4	2.72	0.71
1:B:91:A:H2'	1:B:498:G:N7	2.03	0.71
1:B:100:U:O2	1:B:100:U:H2'	1.90	0.71
1:B:215:G:C1'	1:B:257:C:C6	2.73	0.71
1:B:270:A:C3'	1:B:271:G:C5'	2.67	0.71
1:B:403:U:C1'	1:B:403:U:C6	2.69	0.71
1:B:499:U:C4	1:B:505:A:C2	2.77	0.71
1:B:574:A:H2'	1:B:2040:G:P	2.30	0.71
1:B:747:5MU:OP2	1:B:748:G:C3'	2.37	0.71
1:B:971:G:C2'	1:B:972:A:H2	2.03	0.71
1:B:1043:C:C2'	1:B:1044:C:O5'	2.38	0.71
1:B:1064:C:H2'	1:B:1065:U:O4'	1.90	0.71
1:B:1155:A:C1'	1:B:1156:A:N7	2.51	0.71
1:B:1451:C:OP1	1:B:1455:G:C5'	2.38	0.71
1:B:1568:G:H3'	1:B:1570:A:H62	1.36	0.71
1:B:1803:A:C1'	1:B:1803:A:C4	2.71	0.71
1:B:1853:A:C5'	1:B:1858:A:P	2.75	0.71
1:B:1875:G:OP1	1:B:1876:A:H3'	1.90	0.71
1:B:2639:A:N1	1:B:2642:G:N7	2.38	0.71
1:B:2739:U:OP1	1:B:2741:A:C5'	2.37	0.71
1:B:2741:A:H1'	1:B:2742:G:C1'	2.20	0.71
1:B:29:U:C3'	1:B:1250:G:H22	2.02	0.71
1:B:207:A:O3'	1:B:208:C:OP2	2.07	0.71
1:B:508:A:C1'	1:B:508:A:C4	2.72	0.71
1:B:527:C:H3'	1:B:1189:A:N7	2.06	0.71
1:B:706:A:C1'	1:B:706:A:C4	2.71	0.71
1:B:780:G:C3'	1:B:786:C:H41	2.02	0.71
1:B:803:U:P	1:B:1254:A:C5'	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:942:G:C3'	1:B:943:A:H2	2.03	0.71
1:B:1027:A:H2'	1:B:1028:A:O5'	1.90	0.71
1:B:1204:A:C2	1:B:1243:C:C5	2.78	0.71
1:B:1283:G:O2'	1:B:2013:A:O5'	2.08	0.71
1:B:1284:A:C5'	1:B:2012:G:C8	2.73	0.71
1:B:1379:U:O2	1:B:1379:U:H2'	1.89	0.71
1:B:1570:A:H2'	1:B:1572:A:C5'	2.20	0.71
1:B:1573:G:H2'	1:B:1631:G:O2'	1.90	0.71
1:B:1680:U:C1'	1:B:1680:U:C6	2.71	0.71
1:B:1847:A:H2'	1:B:2231:U:O2'	1.91	0.71
1:B:1937:A:C1'	1:B:1937:A:C4	2.71	0.71
1:B:2505:G:C8	1:B:2506:U:OP2	2.42	0.71
1:B:2873:A:C2'	1:B:2874:C:C5'	2.67	0.71
1:B:2887:A:N1	1:B:2889:C:OP2	2.23	0.71
1:B:71:A:N6	1:B:119:A:H62	1.88	0.71
1:B:71:A:C4	1:B:106:C:OP2	2.43	0.71
1:B:75:G:C4'	1:B:100:U:C5	2.72	0.71
1:B:206:U:H5"	1:B:207:A:OP2	1.90	0.71
1:B:221:A:C2	1:B:222:A:C2	2.79	0.71
1:B:330:A:H1'	1:B:334:C:C2	2.22	0.71
1:B:382:A:H2'	1:B:383:C:C5'	2.19	0.71
1:B:430:A:C5	1:B:431:U:O4	2.44	0.71
1:B:780:G:O2'	1:B:786:C:N4	2.22	0.71
1:B:787:C:C2'	1:B:788:A:O5'	2.36	0.71
1:B:820:A:H3'	1:B:2628:C:O2	1.90	0.71
1:B:899:A:O5'	1:B:902:C:C6	2.43	0.71
1:B:983:A:H3'	1:B:984:A:C8	2.26	0.71
1:B:1039:A:N7	1:B:1040:A:N6	2.38	0.71
1:B:1445:G:C4'	1:B:1543:G:O6	2.34	0.71
1:B:1695:G:O3'	1:B:2703:C:N3	2.23	0.71
1:B:1797:G:P	1:B:1815:A:H1'	2.30	0.71
1:B:1942:C:OP1	1:B:2441:U:H4'	1.90	0.71
1:B:2067:G:OP1	1:B:2439:A:O5'	2.09	0.71
1:B:2108:A:OP1	1:B:2110:G:H2'	1.91	0.71
1:B:2322:A:O5'	1:B:2324:U:OP1	2.07	0.71
1:B:2388:A:OP2	1:B:2388:A:C8	2.43	0.71
1:B:2467:C:H42	1:B:2481:G:H5'	1.55	0.71
1:B:2705:A:C8	1:B:2706:A:C8	2.77	0.71
1:B:2787:C:H5'	1:B:2813:A:C5'	2.20	0.71
1:B:124:G:N2	1:B:125:A:H5"	2.04	0.71
1:B:221:A:C1'	1:B:222:A:H2'	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:C:H3'	1:B:319:G:OP1	1.88	0.71
1:B:385:C:C2'	1:B:386:G:H8	2.03	0.71
1:B:1116:G:C5'	1:B:2749:A:O3'	2.37	0.71
1:B:1117:C:P	1:B:2751:G:P	2.87	0.71
1:B:1128:G:C5'	1:B:2751:G:H2'	2.20	0.71
1:B:1135:C:O5'	1:B:1140:C:C3'	2.39	0.71
1:B:1135:C:H5"	1:B:1141:U:OP2	1.89	0.71
1:B:1255:U:C1'	1:B:1255:U:C6	2.68	0.71
1:B:1283:G:C2'	1:B:2012:G:C3'	2.69	0.71
1:B:1321:A:O2'	1:B:1322:A:O5'	2.08	0.71
1:B:1351:C:H5"	1:B:1352:U:P	2.30	0.71
1:B:1691:C:H2'	1:B:1692:U:N1	2.06	0.71
1:B:1774:C:C1'	1:B:1774:C:C6	2.69	0.71
1:B:1791:A:N9	1:B:1934:C:C6	2.57	0.71
1:B:1869:G:O3'	1:B:2159:G:OP1	2.08	0.71
1:B:1914:C:H3'	1:B:1915:5MU:H73	1.70	0.71
1:B:1932:A:HO5'	1:B:1935:G:H5'	1.53	0.71
1:B:1944:U:C5'	1:B:2072:C:OP2	2.26	0.71
1:B:2059:A:C1'	1:B:2059:A:C4	2.72	0.71
1:B:2060:A:H1'	1:B:2558:C:O2	1.89	0.71
1:B:2382:G:O3'	1:B:2382:G:C2'	2.37	0.71
1:B:2690:U:OP2	1:B:2727:A:O2'	2.04	0.71
1:B:10:A:C2'	1:B:11:C:C5'	2.49	0.71
1:B:100:U:O2'	1:B:101:A:N6	2.23	0.71
1:B:101:A:O2'	1:B:102:U:O5'	2.05	0.71
1:B:199:A:C1'	1:B:199:A:C4	2.72	0.71
1:B:507:A:C8	1:B:1245:G:P	2.82	0.71
1:B:647:G:OP2	1:B:653:U:C5'	2.38	0.71
1:B:805:G:H1'	1:B:1252:G:O5'	1.89	0.71
1:B:920:A:H3'	1:B:921:C:C5'	2.21	0.71
1:B:1022:G:N2	1:B:2483:C:N4	2.37	0.71
1:B:1045:C:C5'	1:B:1112:G:N7	2.53	0.71
1:B:1202:G:C1'	1:B:1203:U:H5	2.03	0.71
1:B:1302:A:C2	1:B:1607:C:O5'	2.44	0.71
1:B:1570:A:O2'	1:B:1572:A:H5'	1.89	0.71
1:B:1670:C:C1'	1:B:1670:C:C6	2.70	0.71
1:B:1680:U:C2'	1:B:1681:G:O5'	2.38	0.71
1:B:1755:A:C5	1:B:1765:U:H5"	2.26	0.71
1:B:1792:G:H5'	1:B:1942:C:C2'	2.19	0.71
1:B:1874:C:O2'	1:B:1877:A:OP1	2.07	0.71
1:B:1940:U:O4	1:B:2553:G:C5'	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2050:C:H5”	1:B:2051:A:P	2.29	0.71
1:B:2296:U:HO3’	1:B:2297:A:P	2.12	0.71
1:B:2365:G:O5’	1:B:2366:A:H1’	1.91	0.71
1:B:2424:C:O3’	1:B:2424:C:C2’	2.39	0.71
1:B:2450:A:P	1:B:2560:A:C5’	2.77	0.71
1:B:2503:A:C5’	1:B:2504:U:C4’	2.68	0.71
1:B:2848:G:O3’	1:B:2872:A:H5”	1.90	0.71
1:B:34:U:C1’	1:B:34:U:C6	2.72	0.71
1:B:50:U:O2’	1:B:151:C:C4’	2.37	0.71
1:B:72:U:H5”	1:B:100:U:H3	1.54	0.71
1:B:103:A:C2’	1:B:104:A:C8	2.71	0.71
1:B:214:G:H1	1:B:254:G:C2’	2.02	0.71
1:B:370:G:H1	1:B:372:G:N2	1.82	0.71
1:B:535:G:C4’	1:B:950:G:O2’	2.39	0.71
1:B:646:U:H5”	1:B:647:G:O4’	1.90	0.71
1:B:697:G:OP1	1:B:1963:U:H5’	1.91	0.71
1:B:1025:G:N2	1:B:2477:U:O3’	2.23	0.71
1:B:1025:G:O5’	1:B:2468:A:H5”	1.91	0.71
1:B:1129:A:C4	1:B:1130:U:OP1	2.44	0.71
1:B:1275:A:C1’	1:B:1275:A:C4	2.72	0.71
1:B:1284:A:H3’	1:B:2012:G:H8	1.53	0.71
1:B:1402:U:HO3’	1:B:1403:A:P	2.13	0.71
1:B:1477:A:C4	1:B:1478:G:H5”	2.25	0.71
1:B:1641:A:C2	1:B:1641:A:OP1	2.42	0.71
1:B:1834:U:C4’	1:B:1835:G:OP2	2.23	0.71
1:B:1848:A:C4	1:B:1857:G:C8	2.79	0.71
1:B:2346:A:H8	1:B:2382:G:H21	1.38	0.71
1:B:2787:C:H5’	1:B:2813:A:C4’	2.21	0.71
1:B:2798:U:O3’	1:B:2799:A:C8	2.44	0.71
1:B:2806:C:C2	1:B:2807:U:O2’	2.43	0.71
1:B:2884:U:H5	1:B:2889:C:N4	1.88	0.71
1:B:27:G:H22	1:B:1248:G:H3’	1.54	0.71
1:B:82:U:C2’	1:B:84:A:C4	2.74	0.71
1:B:93:G:C1’	1:B:498:G:H4’	2.20	0.71
1:B:144:A:O2’	1:B:1326:U:O3’	2.07	0.71
1:B:207:A:H5”	1:B:208:C:OP1	1.89	0.71
1:B:214:G:H1’	1:B:256:A:C2’	2.21	0.71
1:B:264:C:C5’	1:B:369:U:H2’	2.20	0.71
1:B:320:A:N3	1:B:324:A:C8	2.57	0.71
1:B:322:A:O3’	1:B:338:G:C3’	2.35	0.71
1:B:455:C:H5’	1:B:656:G:OP1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:573:U:C5’	1:B:2044:C:OP2	2.35	0.71
1:B:613:A:C1’	1:B:613:A:C4	2.72	0.71
1:B:669:G:P	1:B:669:G:HO5’	2.13	0.71
1:B:685:A:H2’	1:B:686:U:P	2.31	0.71
1:B:896:A:H4’	1:B:897:C:C5’	2.19	0.71
1:B:1021:A:H2	1:B:1022:G:C3’	1.97	0.71
1:B:1419:A:O3’	1:B:1419:A:C4’	2.39	0.71
1:B:1454:C:N3	1:B:1470:A:H1’	2.05	0.71
1:B:1673:G:C8	1:B:1680:U:C6	2.78	0.71
1:B:1696:G:O2’	1:B:2702:G:H2’	1.90	0.71
1:B:1853:A:H4’	1:B:1857:G:O3’	1.90	0.71
1:B:2012:G:O3’	1:B:2012:G:C2’	2.38	0.71
1:B:2060:A:C2	1:B:2550:G:N2	2.58	0.71
1:B:2108:A:C5’	1:B:2110:G:O2’	2.39	0.71
1:B:2111:U:C6	1:B:2112:G:O4’	2.43	0.71
1:B:2226:C:C2’	1:B:2227:A:C5’	2.67	0.71
1:B:2376:A:C1’	1:B:2376:A:C4	2.72	0.71
1:B:2376:A:N1	1:B:2393:U:C2	2.58	0.71
1:B:2587:A:H5”	1:B:2588:G:N7	2.05	0.71
1:B:2602:A:N6	1:B:2603:G:O6	2.24	0.71
1:B:15:G:C5	1:B:1255:U:H1’	2.26	0.71
1:B:98:G:H5’	1:B:103:A:OP1	1.91	0.71
1:B:227:A:H3’	1:B:228:C:C6	2.25	0.71
1:B:240:C:P	1:B:275:C:H2’	2.31	0.71
1:B:316:C:H5”	1:B:317:G:P	2.30	0.71
1:B:488:G:H5’	1:B:509:C:N3	2.06	0.71
1:B:803:U:O5’	1:B:1254:A:H5”	1.90	0.71
1:B:805:G:H5”	1:B:1254:A:H2’	1.73	0.71
1:B:858:G:OP2	1:B:859:G:C4	2.43	0.71
1:B:910:A:H2’	1:B:911:A:O4’	1.90	0.71
1:B:920:A:C3’	1:B:921:C:C5’	2.68	0.71
1:B:1040:A:H1’	1:B:1116:G:C6	2.25	0.71
1:B:1047:G:O3’	1:B:1047:G:C4’	2.38	0.71
1:B:1132:U:C1’	1:B:1132:U:C6	2.70	0.71
1:B:1159:U:HO3’	1:B:1160:G:P	2.11	0.71
1:B:1253:A:C5’	1:B:1254:A:C1’	2.68	0.71
1:B:1264:A:C2’	1:B:1265:A:H5”	2.20	0.71
1:B:1299:G:N1	1:B:1643:G:H1’	2.06	0.71
1:B:1814:G:C3’	1:B:1815:A:H2	2.02	0.71
1:B:1936:A:H2’	1:B:1938:A:C8	2.26	0.71
1:B:2129:C:H2’	1:B:2130:U:O5’	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2132:U:O4	1:B:2156:G:C2	2.44	0.71
1:B:2267:A:C1’	1:B:2267:A:C4	2.72	0.71
1:B:2845:U:O4’	1:B:2867:G:O2’	2.09	0.71
1:B:2846:G:C5’	1:B:2846:G:H3’	2.21	0.71
1:B:2849:U:C4’	1:B:2872:A:C8	2.69	0.71
1:B:15:G:C4’	1:B:1197:G:N3	2.54	0.71
1:B:28:A:C2’	1:B:29:U:P	2.79	0.71
1:B:94:A:C5’	1:B:94:A:O4’	2.39	0.71
1:B:448:U:H2’	1:B:478:A:O2’	1.88	0.71
1:B:455:C:H3’	1:B:456:C:C5’	2.21	0.71
1:B:529:A:C8	1:B:973:A:C4’	2.74	0.71
1:B:675:A:H5’	1:B:1250:G:C8	2.24	0.71
1:B:684:G:O3’	1:B:684:G:H3’	1.88	0.71
1:B:735:A:C1’	1:B:736:C:C5	2.73	0.71
1:B:798:G:OP1	1:B:802:A:OP2	2.09	0.71
1:B:861:A:C4’	1:B:862:G:P	2.79	0.71
1:B:1016:G:OP1	1:B:2753:A:C2’	2.38	0.71
1:B:1024:G:H2’	1:B:2470:G:H8	1.55	0.71
1:B:1039:A:C1’	1:B:1039:A:C4	2.72	0.71
1:B:1472:C:C5	1:B:1515:A:C2	2.78	0.71
1:B:1609:A:O4’	1:B:1621:U:O2’	2.01	0.71
1:B:1615:C:C6	1:B:1615:C:OP1	2.43	0.71
1:B:1791:A:H4’	1:B:1942:C:H6	1.54	0.71
1:B:1800:C:H2’	1:B:1800:C:O2	1.91	0.71
1:B:2112:G:C2’	1:B:2178:C:C5	2.74	0.71
1:B:2361:G:C3’	1:B:2362:C:H5”	2.21	0.71
1:B:2789:C:H41	1:B:2887:A:N6	1.88	0.71
1:B:15:G:N9	1:B:16:C:H5’	2.06	0.71
1:B:72:U:C1’	1:B:72:U:C6	2.71	0.71
1:B:322:A:C5’	1:B:323:C:OP1	2.39	0.71
1:B:450:G:C3’	1:B:451:U:C5’	2.66	0.71
1:B:450:G:OP1	1:B:452:G:N9	2.24	0.71
1:B:524:G:N7	1:B:586:A:N1	2.39	0.71
1:B:525:U:C5’	1:B:525:U:O4’	2.38	0.71
1:B:803:U:C1’	1:B:1255:U:H5’	2.21	0.71
1:B:837:C:H4’	1:B:975:A:H3’	1.73	0.71
1:B:1024:G:P	1:B:2467:C:O3’	2.49	0.71
1:B:1032:A:H8	1:B:1127:A:O2’	1.72	0.71
1:B:1142:A:C5’	1:B:1143:A:H8	1.97	0.71
1:B:1379:U:C5’	1:B:1380:G:C8	2.68	0.71
1:B:1451:C:O3’	1:B:1526:C:C5’	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1453:A:C2'	1:B:1525:A:O3'	2.37	0.71
1:B:1468:U:O4	1:B:1526:C:O2'	2.08	0.71
1:B:1499:C:C2'	1:B:1500:G:C5'	2.62	0.71
1:B:1582:C:N3	1:B:1633:G:C8	2.59	0.71
1:B:1668:A:C5'	1:B:1669:A:O5'	2.38	0.71
1:B:1671:U:C2	1:B:1672:A:H8	2.06	0.71
1:B:1790:C:OP1	1:B:1971:U:P	2.49	0.71
1:B:1803:A:H61	1:B:1897:G:H5"	1.56	0.71
1:B:1899:A:H3'	1:B:1900:A:H1'	1.71	0.71
1:B:2007:U:OP1	1:B:2846:G:C6	2.44	0.71
1:B:2060:A:N3	1:B:2550:G:N2	2.38	0.71
1:B:2113:U:P	1:B:2178:C:N4	2.63	0.71
1:B:2344:U:O3'	1:B:2380:C:N4	2.24	0.71
1:B:2748:A:C6	1:B:2756:U:H5	2.09	0.71
1:B:2849:U:C5'	1:B:2872:A:C8	2.72	0.71
1:B:2860:A:C1'	1:B:2860:A:C4	2.72	0.71
1:B:12:U:OP2	1:B:585:G:O3'	2.07	0.70
1:B:124:G:H2'	1:B:125:A:H5'	1.72	0.70
1:B:165:A:C1'	1:B:165:A:C4	2.72	0.70
1:B:177:G:H8	1:B:178:G:N2	1.89	0.70
1:B:319:G:C1'	1:B:320:A:H5'	2.21	0.70
1:B:536:G:C2'	1:B:537:G:C5'	2.58	0.70
1:B:570:G:C6	1:B:2044:C:C5	2.79	0.70
1:B:674:G:C1'	1:B:674:G:C4	2.72	0.70
1:B:773:U:C5'	1:B:780:G:H21	2.04	0.70
1:B:857:G:C5'	1:B:858:G:H8	1.89	0.70
1:B:864:G:N2	1:B:909:A:N7	2.38	0.70
1:B:1234:U:OP2	1:B:1235:G:H5'	1.89	0.70
1:B:1285:A:C1'	1:B:2012:G:OP1	2.39	0.70
1:B:1510:G:H5'	1:B:1511:G:C5'	2.20	0.70
1:B:1527:G:H1'	1:B:1529:G:OP1	1.91	0.70
1:B:1546:G:H2'	1:B:1547:C:C4'	2.21	0.70
1:B:1565:C:C5'	1:B:1566:A:OP1	2.37	0.70
1:B:1692:U:C2'	1:B:1697:G:O2'	2.39	0.70
1:B:1929:G:N3	1:B:1930:G:N2	2.40	0.70
1:B:1996:C:HO3'	1:B:1997:C:P	2.11	0.70
1:B:2117:A:C4	1:B:2172:U:H5	2.07	0.70
1:B:2554:U:O2'	1:B:2555:U:O5'	2.08	0.70
1:B:2849:U:C5'	1:B:2872:A:C3'	2.69	0.70
1:B:2885:G:H5"	1:B:2887:A:O3'	1.91	0.70
1:B:278:A:C1'	1:B:278:A:C4	2.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:316:C:O5'	1:B:317:G:OP2	2.08	0.70
1:B:528:A:C1'	1:B:528:A:C4	2.72	0.70
1:B:792:A:N6	1:B:795:C:H5	1.88	0.70
1:B:805:G:C2'	1:B:806:C:C5'	2.64	0.70
1:B:821:A:O4'	1:B:2628:C:H5	1.73	0.70
1:B:1023:U:H6	1:B:2481:G:H1'	1.52	0.70
1:B:1047:G:O5'	1:B:1050:A:OP1	2.09	0.70
1:B:1175:A:C1'	1:B:1175:A:C4	2.73	0.70
1:B:1253:A:C4'	1:B:1254:A:C8	2.73	0.70
1:B:1299:G:C8	1:B:1626:A:C6	2.79	0.70
1:B:1335:C:OP1	1:B:1415:U:C5'	2.39	0.70
1:B:1569:A:N7	1:B:1571:A:P	2.64	0.70
1:B:1697:G:O5'	1:B:2703:C:H5	1.74	0.70
1:B:1701:A:H2'	1:B:1702:G:O4'	1.91	0.70
1:B:1721:G:C2'	1:B:1739:A:C8	2.64	0.70
1:B:1809:A:C1'	1:B:1809:A:C4	2.72	0.70
1:B:1817:G:C1'	1:B:1817:G:C4	2.73	0.70
1:B:1884:G:O4'	1:B:1885:A:H3'	1.89	0.70
1:B:1936:A:O3'	1:B:1938:A:C5'	2.38	0.70
1:B:2060:A:C5'	1:B:2446:G:H5'	1.97	0.70
1:B:2061:G:OP2	1:B:2557:G:N2	2.24	0.70
1:B:2062:A:OP2	1:B:2447:G:O6	2.08	0.70
1:B:2245:U:H5"	1:B:2428:G:OP1	1.90	0.70
1:B:2335:A:C8	1:B:2336:A:C1'	2.74	0.70
1:B:2643:G:C5'	1:B:2644:G:OP2	2.33	0.70
1:B:2726:A:C5'	1:B:2727:A:C5'	2.53	0.70
1:B:2884:U:O3'	1:B:2887:A:H8	1.70	0.70
1:B:188:G:OP1	1:B:190:A:C4	2.44	0.70
1:B:300:A:OP2	1:B:333:G:H5"	1.91	0.70
1:B:321:U:OP2	1:B:324:A:N3	2.24	0.70
1:B:332:A:C5'	1:B:333:G:C8	2.73	0.70
1:B:478:A:O3'	1:B:478:A:C2'	2.39	0.70
1:B:487:C:P	1:B:509:C:H41	2.14	0.70
1:B:608:A:H1'	1:B:610:C:H42	1.48	0.70
1:B:669:G:O3'	1:B:669:G:H3'	1.82	0.70
1:B:684:G:C4'	1:B:776:G:P	2.77	0.70
1:B:778:G:H1'	1:B:789:A:OP1	1.92	0.70
1:B:792:A:C1'	1:B:792:A:C4	2.72	0.70
1:B:850:U:C3'	1:B:851:C:C6	2.74	0.70
1:B:896:A:O2'	1:B:897:C:O5'	2.09	0.70
1:B:1016:G:P	1:B:2753:A:C8	2.83	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1133:A:H61	1:B:2463:C:H5”	1.55	0.70
1:B:1371:G:N2	1:B:1372:U:H5”	2.06	0.70
1:B:1423:G:O6	1:B:1568:G:O4’	2.09	0.70
1:B:1480:C:C2’	1:B:1481:U:C4’	2.61	0.70
1:B:1523:U:O2’	1:B:1524:G:H4’	1.90	0.70
1:B:1675:C:C3’	1:B:1678:A:C5’	2.70	0.70
1:B:1783:A:C1’	1:B:1783:A:C4	2.72	0.70
1:B:1936:A:C5’	1:B:1939:5MU:OP2	2.39	0.70
1:B:2059:A:H62	1:B:2556:C:H5’	1.55	0.70
1:B:2321:U:C5’	1:B:2322:A:OP2	2.39	0.70
1:B:2351:G:O3’	1:B:2352:A:H3’	1.90	0.70
1:B:2502:G:O3’	1:B:2504:U:H5’	1.90	0.70
1:B:2556:C:C1’	1:B:2556:C:C6	2.73	0.70
1:B:2856:A:H2’	1:B:2857:G:H5’	1.71	0.70
1:B:93:G:C2’	1:B:498:G:O5’	2.40	0.70
1:B:137:U:H1’	1:B:1325:U:C5’	2.21	0.70
1:B:167:A:HO2’	1:B:168:G:H3’	1.55	0.70
1:B:280:U:O3’	1:B:280:U:H3’	1.83	0.70
1:B:292:U:OP1	1:B:337:C:OP1	2.08	0.70
1:B:294:A:P	1:B:295:G:P	2.89	0.70
1:B:500:G:C8	1:B:501:A:O2’	2.30	0.70
1:B:514:A:H5”	1:B:669:G:C1’	2.22	0.70
1:B:601:C:C5’	1:B:602:A:HO5’	1.91	0.70
1:B:746:PSU:OP1	1:B:748:G:C8	2.44	0.70
1:B:1130:U:C5’	1:B:2752:C:O2’	2.39	0.70
1:B:1289:C:O4’	1:B:1648:U:C5’	2.36	0.70
1:B:1509:A:C1’	1:B:1509:A:C4	2.73	0.70
1:B:1693:U:O4	1:B:2706:A:H1’	1.92	0.70
1:B:1695:G:C8	1:B:2704:C:O2	2.45	0.70
1:B:1907:G:OP1	1:B:1938:A:N6	2.25	0.70
1:B:1928:A:O2’	1:B:1936:A:H5’	1.91	0.70
1:B:1929:G:H4’	1:B:1930:G:OP1	1.90	0.70
1:B:1939:5MU:H6	1:B:1940:U:OP1	1.73	0.70
1:B:1941:C:C1’	1:B:1941:C:C2	2.72	0.70
1:B:1973:G:C5’	1:B:2062:A:C2	2.74	0.70
1:B:2067:G:OP1	1:B:2439:A:P	2.48	0.70
1:B:2501:C:H4’	1:B:2574:G:C8	2.27	0.70
1:B:2572:A:C1’	1:B:2572:A:C4	2.72	0.70
1:B:2810:A:C1’	1:B:2810:A:C4	2.72	0.70
1:B:219:A:H5’	1:B:257:C:P	2.30	0.70
1:B:239:C:OP1	1:B:274:C:O3’	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:A:O3’	1:B:452:G:H1’	1.90	0.70
1:B:510:C:C1’	1:B:510:C:C6	2.70	0.70
1:B:568:U:N1	1:B:833:A:H5”	2.06	0.70
1:B:598:U:O4’	1:B:937:C:H4’	1.90	0.70
1:B:764:A:C1’	1:B:765:C:H6	1.91	0.70
1:B:1047:G:H5”	1:B:1049:C:C1’	2.21	0.70
1:B:1223:G:C2’	1:B:1224:U:H5’	2.21	0.70
1:B:1272:A:C4’	1:B:1649:G:H5”	2.21	0.70
1:B:1568:G:C1’	1:B:1575:C:H41	1.99	0.70
1:B:1581:G:C1’	1:B:1581:G:C4	2.73	0.70
1:B:1610:A:H2	1:B:1611:C:H3’	1.56	0.70
1:B:1696:G:H21	1:B:2703:C:H5’	1.57	0.70
1:B:1722:A:C1’	1:B:1722:A:C4	2.72	0.70
1:B:1854:A:O3’	1:B:1854:A:H3’	1.85	0.70
1:B:1966:A:O3’	1:B:1967:C:O3’	2.09	0.70
1:B:1990:C:C5’	1:B:1990:C:O4’	2.39	0.70
1:B:2166:U:O2’	1:B:2168:G:H5”	1.91	0.70
1:B:2379:G:H1’	1:B:2393:U:C2’	2.21	0.70
1:B:2450:A:OP2	1:B:2560:A:C5’	2.35	0.70
1:B:2476:A:C1’	1:B:2476:A:C4	2.71	0.70
1:B:2733:A:H3’	1:B:2770:G:N2	2.06	0.70
1:B:52:A:H5’	1:B:176:A:C6	2.26	0.70
1:B:98:G:C5’	1:B:103:A:O5’	2.36	0.70
1:B:137:U:C1’	1:B:1325:U:C5’	2.66	0.70
1:B:179:C:C2’	1:B:197:A:C5’	2.68	0.70
1:B:218:A:H2’	1:B:219:A:OP2	1.91	0.70
1:B:240:C:C1’	1:B:240:C:C6	2.71	0.70
1:B:255:A:C6	1:B:276:U:OP1	2.45	0.70
1:B:320:A:C3’	1:B:324:A:C4	2.64	0.70
1:B:329:G:N2	1:B:330:A:N6	2.36	0.70
1:B:334:C:O3’	1:B:335:C:P	2.50	0.70
1:B:363:G:OP1	1:B:428:A:O3’	2.08	0.70
1:B:487:C:H1’	1:B:505:A:N3	2.07	0.70
1:B:746:PSU:C2’	1:B:747:5MU:H5”	2.21	0.70
1:B:926:G:C3’	1:B:927:A:P	2.79	0.70
1:B:926:G:HO3’	1:B:927:A:P	2.13	0.70
1:B:1128:G:C5’	1:B:2751:G:C2’	2.68	0.70
1:B:1253:A:C1’	1:B:1253:A:C4	2.72	0.70
1:B:1288:G:N3	1:B:1648:U:H1’	2.06	0.70
1:B:1298:C:P	1:B:1339:G:H21	2.14	0.70
1:B:1510:G:C5’	1:B:1511:G:O4’	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1613:G:H22	1:B:1617:C:H5	1.39	0.70
1:B:1848:A:H3'	1:B:1849:G:OP2	1.89	0.70
1:B:1885:A:O5'	1:B:1885:A:O3'	2.08	0.70
1:B:1929:G:H21	1:B:1930:G:H22	1.38	0.70
1:B:1961:C:O2'	1:B:1962:C:O5'	2.08	0.70
1:B:2115:G:C1'	1:B:2115:G:C4	2.73	0.70
1:B:2410:G:H3'	1:B:2411:A:H1'	1.73	0.70
1:B:2871:U:C4'	1:B:2872:A:O5'	2.40	0.70
1:B:2894:G:H3'	1:B:2895:G:H5"	0.72	0.70
1:B:14:A:O3'	1:B:14:A:C4'	2.39	0.70
1:B:83:A:H2	1:B:84:A:C5'	2.02	0.70
1:B:100:U:O4	1:B:118:A:C2'	2.40	0.70
1:B:124:G:H2'	1:B:125:A:C5'	2.22	0.70
1:B:141:G:N2	1:B:141:G:OP2	2.24	0.70
1:B:215:G:C4'	1:B:218:A:O2'	2.39	0.70
1:B:240:C:P	1:B:275:C:C2'	2.79	0.70
1:B:472:A:C1'	1:B:472:A:C4	2.71	0.70
1:B:817:C:C2'	1:B:818:G:O5'	2.40	0.70
1:B:845:A:H2'	1:B:931:U:C4	2.26	0.70
1:B:878:A:C1'	1:B:878:A:C4	2.73	0.70
1:B:945:A:C1'	1:B:945:A:C4	2.72	0.70
1:B:1016:G:C5'	1:B:2753:A:C8	2.74	0.70
1:B:1048:A:O5'	1:B:1102:C:H5"	1.90	0.70
1:B:1074:G:H2'	1:B:1075:C:O5'	1.92	0.70
1:B:1261:C:H4'	1:B:1262:A:H5'	1.74	0.70
1:B:1312:U:H3'	1:B:1313:U:H5"	1.46	0.70
1:B:1463:C:H1'	1:B:1467:U:C1'	2.22	0.70
1:B:1568:G:C4	1:B:1576:U:O4	2.44	0.70
1:B:1581:G:O3'	1:B:1628:G:OP2	2.09	0.70
1:B:1609:A:C5'	1:B:1609:A:O4'	2.39	0.70
1:B:1671:U:N1	1:B:1751:U:OP2	2.24	0.70
1:B:1745:A:C1'	1:B:1745:A:C4	2.73	0.70
1:B:1889:A:C1'	1:B:1889:A:C4	2.72	0.70
1:B:1953:A:H5'	1:B:1956:U:C6	2.26	0.70
1:B:2321:U:H4'	1:B:2322:A:OP2	1.91	0.70
1:B:2374:C:HO3'	1:B:2375:G:P	2.14	0.70
1:B:2471:A:H4'	1:B:2472:G:OP2	1.91	0.70
1:B:15:G:N7	1:B:1255:U:C2	2.59	0.70
1:B:22:C:H5"	1:B:511:U:C3'	2.22	0.70
1:B:97:C:C3'	1:B:98:G:P	2.80	0.70
1:B:124:G:H1	1:B:126:A:H4'	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:C:O2	1:B:213:A:C2	2.44	0.70
1:B:239:C:C5'	1:B:274:C:C3'	2.69	0.70
1:B:374:A:C1'	1:B:374:A:C4	2.73	0.70
1:B:507:A:C4	1:B:518:G:O4'	2.44	0.70
1:B:751:A:C1'	1:B:751:A:C4	2.73	0.70
1:B:887:U:H2'	1:B:888:C:C6	2.26	0.70
1:B:1211:C:H41	1:B:1236:G:C1'	2.05	0.70
1:B:1422:G:O6	1:B:1568:G:C8	2.45	0.70
1:B:1675:C:H2'	1:B:1677:A:C2'	2.19	0.70
1:B:1787:A:N9	1:B:2557:G:OP2	2.23	0.70
1:B:1790:C:N4	1:B:1830:C:C5	2.59	0.70
1:B:1848:A:C4'	1:B:1849:G:H5"	2.21	0.70
1:B:1854:A:N7	1:B:1858:A:C4'	2.54	0.70
1:B:1926:U:OP2	1:B:1927:A:N7	2.24	0.70
1:B:2376:A:C5'	1:B:2414:G:OP1	2.39	0.70
1:B:2400:G:H5"	1:B:2408:U:OP1	1.91	0.70
1:B:2552:U:C5'	1:B:2553:G:N7	2.55	0.70
1:B:2748:A:N6	1:B:2756:U:H5	1.90	0.70
1:B:2820:A:O3'	1:B:2820:A:C2'	2.38	0.70
1:B:2894:G:C8	1:B:2895:G:O3'	2.44	0.70
1:B:12:U:OP2	1:B:585:G:C3'	2.40	0.70
1:B:137:U:O2'	1:B:1325:U:H4'	1.92	0.70
1:B:263:G:C6	1:B:361:G:H5"	2.26	0.70
1:B:269:C:C1'	1:B:269:C:C6	2.72	0.70
1:B:311:A:C5'	1:B:483:A:C6	2.74	0.70
1:B:450:G:C2'	1:B:451:U:C5'	2.69	0.70
1:B:563:A:C1'	1:B:563:A:C4	2.71	0.70
1:B:716:A:C1'	1:B:716:A:C4	2.72	0.70
1:B:845:A:C5	1:B:846:U:C6	2.80	0.70
1:B:913:U:C5	1:B:917:A:H3'	2.26	0.70
1:B:926:G:H3'	1:B:927:A:O4'	1.92	0.70
1:B:1253:A:C5'	1:B:1254:A:H1'	2.20	0.70
1:B:1418:G:O5'	1:B:1635:A:N1	2.25	0.70
1:B:1425:G:C5'	1:B:1566:A:C4'	2.14	0.70
1:B:1526:C:C5'	1:B:1527:G:OP1	2.38	0.70
1:B:1585:C:C5'	1:B:1586:A:H5"	2.22	0.70
1:B:1664:A:C1'	1:B:1664:A:C4	2.72	0.70
1:B:1672:A:C4	1:B:1674:G:P	2.85	0.70
1:B:1697:G:OP1	1:B:2704:C:N4	2.25	0.70
1:B:1714:U:H4'	1:B:1715:G:OP2	1.91	0.70
1:B:2445:G:N7	1:B:2554:U:O4	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2602:A:H2'	1:B:2603:G:H8	1.53	0.70
1:B:2778:A:C1'	1:B:2778:A:C4	2.73	0.70
1:B:2884:U:OP1	1:B:2885:G:C5'	2.39	0.70
1:B:229:C:C1'	1:B:229:C:C6	2.72	0.70
1:B:262:A:OP1	1:B:429:A:C3'	2.40	0.70
1:B:266:G:H21	1:B:269:C:H41	1.40	0.70
1:B:309:A:H2'	1:B:310:A:O4'	1.92	0.70
1:B:535:G:C4'	1:B:950:G:H4'	2.21	0.70
1:B:575:A:C1'	1:B:575:A:C4	2.72	0.70
1:B:654:A:H2	1:B:655:A:N7	1.89	0.70
1:B:668:A:C4'	1:B:669:G:P	2.80	0.70
1:B:685:A:HO2'	1:B:788:A:C4'	2.03	0.70
1:B:747:5MU:OP2	1:B:748:G:H3'	1.91	0.70
1:B:982:C:H2'	1:B:983:A:O4'	1.92	0.70
1:B:1203:U:N3	1:B:1241:A:O5'	2.19	0.70
1:B:1223:G:H8	1:B:1224:U:O4'	1.73	0.70
1:B:1266:G:OP1	1:B:1266:G:H8	1.73	0.70
1:B:1367:A:C1'	1:B:1367:A:C4	2.73	0.70
1:B:1608:A:H2'	1:B:1622:G:OP1	1.92	0.70
1:B:1664:A:H8	1:B:1758:U:C5'	2.04	0.70
1:B:2103:C:C5'	1:B:2104:C:P	2.74	0.70
1:B:2798:U:C6	1:B:2800:A:H1'	2.27	0.70
1:B:2871:U:H4'	1:B:2872:A:C5	2.26	0.70
1:B:15:G:H4'	1:B:16:C:C6	2.27	0.69
1:B:51:G:OP2	1:B:151:C:O2'	2.08	0.69
1:B:93:G:O5'	1:B:504:A:OP1	2.08	0.69
1:B:94:A:O4'	1:B:95:A:N7	2.24	0.69
1:B:94:A:C1'	1:B:95:A:C8	2.75	0.69
1:B:99:U:O2	1:B:102:U:C4'	2.39	0.69
1:B:211:C:O2'	1:B:213:A:C1'	2.40	0.69
1:B:215:G:C8	1:B:216:A:O5'	2.45	0.69
1:B:422:A:C1'	1:B:422:A:C4	2.72	0.69
1:B:457:A:O3'	1:B:458:G:O3'	2.10	0.69
1:B:570:G:N2	1:B:2043:C:O5'	2.25	0.69
1:B:574:A:O5'	1:B:2044:C:C5'	2.31	0.69
1:B:576:U:H2'	1:B:576:U:O2	1.92	0.69
1:B:839:U:HO2'	1:B:962:G:C2'	2.05	0.69
1:B:881:G:H21	1:B:896:A:H2	1.39	0.69
1:B:1510:G:H5'	1:B:1511:G:C4'	2.21	0.69
1:B:1580:A:C1'	1:B:1580:A:C4	2.72	0.69
1:B:1698:A:C1'	1:B:1698:A:C4	2.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1941:C:O3'	1:B:1941:C:C2'	2.39	0.69
1:B:1973:G:H5'	1:B:2062:A:N3	2.06	0.69
1:B:2335:A:H2'	1:B:2336:A:H5'	0.70	0.69
1:B:2725:A:C1'	1:B:2725:A:C4	2.73	0.69
1:B:13:A:H1'	1:B:584:C:H5	1.55	0.69
1:B:22:C:C5'	1:B:511:U:H2'	2.22	0.69
1:B:35:G:C1'	1:B:677:A:C2	2.76	0.69
1:B:270:A:C1'	1:B:270:A:C4	2.73	0.69
1:B:362:A:H5'	1:B:428:A:C4'	2.22	0.69
1:B:454:A:C1'	1:B:454:A:C4	2.73	0.69
1:B:500:G:H5"	1:B:503:A:O5'	1.92	0.69
1:B:763:G:H5"	1:B:764:A:OP2	1.92	0.69
1:B:901:C:O5'	1:B:902:C:H5	1.72	0.69
1:B:1008:A:C1'	1:B:1008:A:C4	2.73	0.69
1:B:1018:U:H5'	1:B:1128:G:O3'	1.92	0.69
1:B:1050:A:C5'	1:B:1052:C:OP2	2.39	0.69
1:B:1232:G:OP1	1:B:1236:G:H2'	1.92	0.69
1:B:1299:G:C2	1:B:1300:G:H8	2.09	0.69
1:B:1395:A:C1'	1:B:1395:A:C4	2.73	0.69
1:B:1425:G:O3'	1:B:1567:G:O5'	2.09	0.69
1:B:1606:C:H2'	1:B:1607:C:OP1	1.93	0.69
1:B:1753:G:H5"	1:B:1988:G:O2'	1.92	0.69
1:B:1838:C:C5'	1:B:1839:G:OP1	2.34	0.69
1:B:1884:G:H3'	1:B:1884:G:P	2.32	0.69
1:B:1970:A:O3'	1:B:1970:A:C2'	2.40	0.69
1:B:1971:U:O3'	1:B:1971:U:C2'	2.40	0.69
1:B:2076:U:C5'	1:B:2077:A:N7	2.52	0.69
1:B:2147:A:C1'	1:B:2147:A:C4	2.72	0.69
1:B:2168:G:C1'	1:B:2168:G:C4	2.72	0.69
1:B:2245:U:O4	1:B:2274:A:H2'	1.91	0.69
1:B:2432:A:C1'	1:B:2432:A:C4	2.72	0.69
1:B:2468:A:H3'	1:B:2469:A:N1	2.07	0.69
1:B:62:U:H2'	1:B:62:U:O2	1.91	0.69
1:B:84:A:H8	1:B:85:G:N7	1.90	0.69
1:B:88:G:OP1	1:B:93:G:N2	2.25	0.69
1:B:100:U:N1	1:B:113:U:C5'	2.55	0.69
1:B:220:G:O3'	1:B:277:G:H3'	1.93	0.69
1:B:489:G:H1'	1:B:510:C:H3'	1.72	0.69
1:B:839:U:C5'	1:B:961:C:C4	2.74	0.69
1:B:861:A:H1'	1:B:863:A:C2	2.26	0.69
1:B:1189:A:C1'	1:B:1189:A:C4	2.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1286:A:C2	1:B:2011:U:C1'	2.75	0.69
1:B:1472:C:OP2	1:B:1515:A:N7	2.25	0.69
1:B:1499:C:H2'	1:B:1500:G:C5'	2.19	0.69
1:B:1673:G:H8	1:B:1680:U:H5	0.81	0.69
1:B:1700:A:C1'	1:B:1700:A:C4	2.73	0.69
1:B:1933:G:P	1:B:1941:C:H3'	2.32	0.69
1:B:1953:A:C5'	1:B:1956:U:C6	2.75	0.69
1:B:2281:A:C5'	1:B:2282:G:O5'	2.40	0.69
1:B:2776:A:C1'	1:B:2776:A:C4	2.73	0.69
1:B:2846:G:H5'	1:B:2848:G:N3	2.04	0.69
1:B:78:U:OP2	1:B:99:U:H5'	1.93	0.69
1:B:103:A:C5'	1:B:103:A:H4'	2.15	0.69
1:B:810:U:C1'	1:B:810:U:C6	2.71	0.69
1:B:984:A:H2'	1:B:985:C:H6	1.51	0.69
1:B:1129:A:OP2	1:B:2751:G:O2'	2.09	0.69
1:B:1599:U:C2	1:B:1738:G:N2	2.61	0.69
1:B:1620:G:H3'	1:B:1621:U:P	2.32	0.69
1:B:1674:G:H21	1:B:1701:A:P	2.15	0.69
1:B:1720:U:C1'	1:B:1720:U:C6	2.72	0.69
1:B:1814:G:H2'	1:B:1815:A:O5'	1.91	0.69
1:B:1819:A:C1'	1:B:1819:A:C4	2.73	0.69
1:B:1936:A:O3'	1:B:1938:A:C4'	2.40	0.69
1:B:1940:U:C4	1:B:2062:A:C8	2.81	0.69
1:B:1943:U:C6	1:B:2071:A:C3'	2.75	0.69
1:B:2051:A:P	1:B:2052:A:OP2	2.50	0.69
1:B:2469:A:H3'	1:B:2470:G:P	2.32	0.69
1:B:77:G:C4'	1:B:99:U:C6	2.74	0.69
1:B:190:A:C1'	1:B:190:A:C4	2.73	0.69
1:B:376:G:H1'	1:B:401:A:O2'	1.92	0.69
1:B:570:G:N1	1:B:2044:C:H5	1.91	0.69
1:B:759:G:O2'	1:B:761:A:H4'	1.93	0.69
1:B:867:C:H5'	1:B:868:U:C5	2.28	0.69
1:B:886:A:C1'	1:B:886:A:C4	2.72	0.69
1:B:1116:G:O3'	1:B:2750:A:O3'	2.10	0.69
1:B:1130:U:O3'	1:B:2752:C:C3'	2.40	0.69
1:B:1490:A:C1'	1:B:1490:A:C4	2.72	0.69
1:B:1855:U:C4	1:B:1885:A:O2'	2.45	0.69
1:B:1906:G:OP1	1:B:1936:A:C2'	2.39	0.69
1:B:1966:A:O3'	1:B:1967:C:H3'	1.92	0.69
1:B:2112:G:H2'	1:B:2178:C:C5	2.28	0.69
1:B:2433:A:C4'	1:B:2434:A:H8	1.98	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2455:G:N2	1:B:2497:A:C5	2.60	0.69
1:B:2884:U:H5"	1:B:2890:G:N2	2.06	0.69
1:B:9:G:O2'	1:B:526:A:H3'	1.92	0.69
1:B:25:U:C3'	1:B:26:G:P	2.80	0.69
1:B:28:A:C4	1:B:1252:G:H1'	2.26	0.69
1:B:83:A:OP2	1:B:84:A:C2	2.44	0.69
1:B:98:G:C5	1:B:102:U:C5	2.81	0.69
1:B:119:A:C5'	1:B:119:A:C3'	2.70	0.69
1:B:237:C:H1'	1:B:428:A:C6	2.28	0.69
1:B:294:A:O5'	1:B:295:G:C8	2.45	0.69
1:B:299:A:C1'	1:B:299:A:C4	2.73	0.69
1:B:432:A:H3'	1:B:433:C:H5'	0.71	0.69
1:B:504:A:C1'	1:B:504:A:C4	2.72	0.69
1:B:626:A:C1'	1:B:626:A:C4	2.73	0.69
1:B:746:PSU:OP1	1:B:748:G:H8	1.76	0.69
1:B:782:A:O3'	1:B:783:A:C8	2.46	0.69
1:B:840:C:O4'	1:B:962:G:O2'	2.10	0.69
1:B:844:A:OP2	1:B:845:A:H4'	1.93	0.69
1:B:960:A:C1'	1:B:960:A:C4	2.73	0.69
1:B:1286:A:C1'	1:B:1286:A:C4	2.72	0.69
1:B:1301:A:C1'	1:B:1301:A:C4	2.71	0.69
1:B:1566:A:C1'	1:B:1566:A:C4	2.71	0.69
1:B:1632:A:C2	1:B:1633:G:C5	2.81	0.69
1:B:1664:A:C8	1:B:1758:U:H5"	2.27	0.69
1:B:1690:A:H5'	1:B:1691:C:H5"	1.72	0.69
1:B:1918:A:C1'	1:B:1918:A:C4	2.72	0.69
1:B:1928:A:C1'	1:B:1928:A:C4	2.71	0.69
1:B:2226:C:C1'	1:B:2226:C:C6	2.73	0.69
1:B:2394:C:H5"	1:B:2395:C:C4'	2.22	0.69
1:B:2502:G:N2	1:B:2769:U:C5'	2.55	0.69
1:B:2821:A:C1'	1:B:2821:A:C4	2.72	0.69
1:B:15:G:O5'	1:B:1256:G:C8	2.46	0.69
1:B:71:A:H5"	1:B:105:C:P	2.33	0.69
1:B:92:U:H5'	1:B:499:U:OP2	1.91	0.69
1:B:102:U:P	1:B:103:A:H5"	2.32	0.69
1:B:160:A:C1'	1:B:160:A:C4	2.72	0.69
1:B:226:A:C1'	1:B:226:A:C4	2.73	0.69
1:B:359:G:O2'	1:B:370:G:C5'	2.41	0.69
1:B:374:A:OP2	1:B:376:G:H5"	1.93	0.69
1:B:452:G:O4'	1:B:478:A:C3'	2.35	0.69
1:B:805:G:H21	1:B:1251:C:C4'	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:913:U:C1’	1:B:913:U:C6	2.70	0.69
1:B:1016:G:O5’	1:B:2753:A:N7	2.25	0.69
1:B:1059:G:H2’	1:B:1060:U:C6	2.27	0.69
1:B:1912:A:C1’	1:B:1912:A:C4	2.73	0.69
1:B:1942:C:H5’	1:B:2442:C:H5’	0.69	0.69
1:B:2058:A:H2	1:B:2069:7MG:OP1	1.76	0.69
1:B:2333:A:C1’	1:B:2333:A:C4	2.73	0.69
1:B:2533:U:O4	1:B:2534:A:C5	2.45	0.69
1:B:9:G:N3	1:B:526:A:O2’	2.18	0.69
1:B:52:A:C5’	1:B:52:A:O4’	2.41	0.69
1:B:75:G:C5’	1:B:113:U:OP2	2.41	0.69
1:B:99:U:O5’	1:B:102:U:H1’	1.84	0.69
1:B:142:A:H4’	1:B:1330:C:C1’	2.21	0.69
1:B:164:C:C2’	1:B:165:A:H5’	2.23	0.69
1:B:178:G:C8	1:B:179:C:H5	2.10	0.69
1:B:219:A:C1’	1:B:219:A:C4	2.72	0.69
1:B:231:A:H2	1:B:431:U:N3	1.84	0.69
1:B:293:U:C2’	1:B:295:G:N7	2.55	0.69
1:B:330:A:C1’	1:B:330:A:C4	2.74	0.69
1:B:330:A:N3	1:B:334:C:O2	2.25	0.69
1:B:374:A:C3’	1:B:375:G:H5”	2.23	0.69
1:B:402:A:C5’	1:B:403:U:O4	2.40	0.69
1:B:430:A:C5	1:B:431:U:C5	2.81	0.69
1:B:446:G:C1’	1:B:446:G:C4	2.72	0.69
1:B:529:A:H5’	1:B:530:G:N7	2.05	0.69
1:B:536:G:OP1	1:B:950:G:H1’	1.92	0.69
1:B:560:C:C2’	1:B:561:G:C5’	2.70	0.69
1:B:631:A:C1’	1:B:631:A:C4	2.72	0.69
1:B:705:A:H61	1:B:725:G:H3’	1.57	0.69
1:B:739:A:C3’	1:B:740:C:H5”	2.07	0.69
1:B:760:G:H4’	1:B:761:A:C5’	2.23	0.69
1:B:762:U:C2’	1:B:762:U:O3’	2.39	0.69
1:B:781:A:C8	1:B:785:G:C3’	2.74	0.69
1:B:805:G:O5’	1:B:1254:A:N3	2.26	0.69
1:B:837:C:C4’	1:B:838:C:H5’	2.23	0.69
1:B:983:A:C1’	1:B:983:A:C4	2.72	0.69
1:B:1024:G:C8	1:B:2467:C:OP2	2.45	0.69
1:B:1040:A:H3’	1:B:1050:A:H1’	1.74	0.69
1:B:1125:G:O3’	1:B:1125:G:H3’	1.87	0.69
1:B:1142:A:H5’	1:B:1143:A:N7	2.07	0.69
1:B:1236:G:C5’	1:B:1237:A:N7	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1284:A:H3'	1:B:2012:G:C8	2.26	0.69
1:B:1360:G:H5"	1:B:1361:G:N7	2.06	0.69
1:B:1393:A:C1'	1:B:1393:A:C4	2.74	0.69
1:B:1425:G:H4'	1:B:1567:G:OP1	1.91	0.69
1:B:1452:G:O6	1:B:1460:U:H5	1.74	0.69
1:B:1470:A:C1'	1:B:1470:A:C4	2.72	0.69
1:B:1522:A:C3'	1:B:1528:A:C2'	2.31	0.69
1:B:1584:U:H2'	1:B:1585:C:O5'	1.92	0.69
1:B:1693:U:N3	1:B:2705:A:C2	2.61	0.69
1:B:1696:G:H1'	1:B:2702:G:O2'	1.93	0.69
1:B:1701:A:C1'	1:B:1701:A:C4	2.74	0.69
1:B:1759:A:C1'	1:B:1759:A:C4	2.72	0.69
1:B:1780:A:H2'	1:B:1782:U:O4	1.92	0.69
1:B:1789:A:HO2'	1:B:1790:C:P	2.13	0.69
1:B:1792:G:C5'	1:B:1942:C:H2'	2.21	0.69
1:B:1795:C:O2'	1:B:1965:C:N4	2.26	0.69
1:B:1849:G:C8	1:B:1889:A:C2	2.81	0.69
1:B:1854:A:C5'	1:B:1888:G:C2'	2.71	0.69
1:B:1856:U:O4	1:B:1885:A:C5'	2.40	0.69
1:B:1860:G:O6	1:B:1884:G:O6	2.10	0.69
1:B:1936:A:C4'	1:B:1938:A:H3'	2.22	0.69
1:B:1943:U:H2'	1:B:2072:C:H5'	1.75	0.69
1:B:2055:C:C3'	1:B:2056:G:P	2.81	0.69
1:B:2061:G:C1'	1:B:2061:G:C4	2.73	0.69
1:B:2220:U:O2'	1:B:2221:G:H5'	1.92	0.69
1:B:2283:C:N4	1:B:2387:U:O2'	2.26	0.69
1:B:2345:G:C1'	1:B:2382:G:C1'	2.23	0.69
1:B:2378:A:C8	1:B:2394:C:N4	2.61	0.69
1:B:2655:G:H4'	1:B:2656:U:OP2	1.93	0.69
1:B:2733:A:H5"	1:B:2770:G:N2	2.08	0.69
1:B:2740:A:C8	1:B:2742:G:OP2	2.45	0.69
1:B:2809:A:O2'	1:B:2810:A:P	2.50	0.69
1:B:28:A:H2'	1:B:29:U:OP1	1.92	0.69
1:B:92:U:HO2'	1:B:499:U:P	2.15	0.69
1:B:180:G:O6	1:B:198:C:H5"	1.93	0.69
1:B:182:A:C1'	1:B:182:A:C4	2.73	0.69
1:B:423:A:C1'	1:B:423:A:C4	2.74	0.69
1:B:491:G:N2	1:B:493:G:O6	2.25	0.69
1:B:512:G:O6	1:B:516:C:H5	1.74	0.69
1:B:525:U:C2	1:B:587:C:H5'	2.28	0.69
1:B:574:A:O5'	1:B:2044:C:OP1	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1117:C:H3'	1:B:2750:A:H2	1.56	0.69
1:B:1288:G:H2'	1:B:1648:U:C1'	2.22	0.69
1:B:1302:A:H2	1:B:1607:C:O5'	1.75	0.69
1:B:1427:A:O5'	1:B:1572:A:H2	1.76	0.69
1:B:1570:A:C1'	1:B:1570:A:C4	2.72	0.69
1:B:1602:U:C6	1:B:1602:U:OP2	2.45	0.69
1:B:1752:C:C5'	1:B:1987:A:O3'	2.38	0.69
1:B:1936:A:O3'	1:B:1938:A:H3'	1.92	0.69
1:B:2060:A:C8	1:B:2448:A:C4	2.81	0.69
1:B:2108:A:OP2	1:B:2111:U:O3'	2.10	0.69
1:B:2111:U:N1	1:B:2112:G:P	2.66	0.69
1:B:2245:U:N3	1:B:2427:C:C2	2.60	0.69
1:B:2335:A:C1'	1:B:2335:A:C4	2.74	0.69
1:B:2350:C:OP2	1:B:2352:A:N7	2.26	0.69
1:B:2400:G:OP1	1:B:2408:U:OP1	2.11	0.69
1:B:2444:G:O3'	1:B:2555:U:C6	2.45	0.69
1:B:2754:U:C4'	1:B:2755:C:H5"	2.23	0.69
1:B:2886:A:OP2	1:B:2886:A:H4'	1.91	0.69
1:B:9:G:C2'	1:B:526:A:H4'	2.22	0.69
1:B:14:A:C1'	1:B:14:A:C4	2.72	0.69
1:B:71:A:O3'	1:B:100:U:H2'	1.92	0.69
1:B:149:A:C1'	1:B:149:A:C4	2.73	0.69
1:B:161:A:C1'	1:B:161:A:C4	2.73	0.69
1:B:181:A:C1'	1:B:181:A:C4	2.73	0.69
1:B:320:A:C1'	1:B:325:G:P	2.80	0.69
1:B:397:U:C2	1:B:398:C:C5	2.80	0.69
1:B:457:A:N3	1:B:459:U:P	2.66	0.69
1:B:735:A:C4'	1:B:736:C:H6	2.04	0.69
1:B:760:G:C4'	1:B:761:A:C5'	2.71	0.69
1:B:1202:G:C2'	1:B:1203:U:H5	2.06	0.69
1:B:1426:G:H4'	1:B:1572:A:O2'	1.92	0.69
1:B:1570:A:H2	1:B:1572:A:O3'	1.74	0.69
1:B:1625:C:C5'	1:B:1643:G:OP1	2.40	0.69
1:B:1847:A:C6	1:B:2232:C:H5"	2.27	0.69
1:B:1874:C:H2'	1:B:1877:A:OP1	1.92	0.69
1:B:1882:U:C2'	1:B:1883:U:H3'	2.22	0.69
1:B:1933:G:H8	1:B:1938:A:O2'	1.75	0.69
1:B:2050:C:C3'	1:B:2051:A:P	2.81	0.69
1:B:2060:A:H4'	1:B:2446:G:C4'	2.23	0.69
1:B:2273:A:C1'	1:B:2273:A:C4	2.73	0.69
1:B:2825:G:H2'	1:B:2826:A:C8	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2871:U:H5'	1:B:2872:A:P	2.32	0.69
1:B:11:C:C3'	1:B:1195:G:H2'	2.23	0.68
1:B:78:U:OP2	1:B:99:U:N1	2.26	0.68
1:B:111:A:C1'	1:B:111:A:C4	2.71	0.68
1:B:212:G:H5"	1:B:245:G:OP1	1.93	0.68
1:B:225:C:O3'	1:B:226:A:C8	2.46	0.68
1:B:446:G:C6	1:B:447:A:H1'	2.27	0.68
1:B:447:A:C1'	1:B:447:A:C4	2.73	0.68
1:B:507:A:H3'	1:B:1245:G:OP1	1.92	0.68
1:B:517:C:C4'	1:B:1247:A:OP2	2.41	0.68
1:B:571:U:C4'	1:B:2619:C:OP2	2.40	0.68
1:B:654:A:C1'	1:B:654:A:C4	2.72	0.68
1:B:752:A:C1'	1:B:752:A:C4	2.73	0.68
1:B:821:A:C1'	1:B:821:A:C4	2.72	0.68
1:B:1032:A:C1'	1:B:1032:A:C4	2.73	0.68
1:B:1353:A:H5'	1:B:1354:A:N7	2.07	0.68
1:B:1426:G:P	1:B:1567:G:O3'	2.51	0.68
1:B:1427:A:C8	1:B:1566:A:C2	2.82	0.68
1:B:1449:G:C5'	1:B:1587:G:H5'	2.22	0.68
1:B:1585:C:OP1	1:B:1634:A:C5'	2.41	0.68
1:B:1664:A:H8	1:B:1758:U:H5'	1.56	0.68
1:B:1737:G:C1'	1:B:1737:G:C4	2.74	0.68
1:B:1791:A:O5'	1:B:1942:C:C5	2.46	0.68
1:B:1859:U:OP1	1:B:1885:A:N1	2.26	0.68
1:B:1938:A:C5'	1:B:1941:C:C4	2.69	0.68
1:B:1961:C:O2'	1:B:1962:C:C5'	2.41	0.68
1:B:1966:A:C1'	1:B:1966:A:C4	2.73	0.68
1:B:2019:A:C1'	1:B:2019:A:C4	2.72	0.68
1:B:2266:A:C1'	1:B:2266:A:C4	2.73	0.68
1:B:2448:A:C2'	1:B:2449:5MU:O2	2.40	0.68
1:B:2733:A:C1'	1:B:2733:A:C4	2.73	0.68
1:B:2821:A:C2'	1:B:2822:G:O5'	2.41	0.68
1:B:15:G:O2'	1:B:1198:U:H4'	1.94	0.68
1:B:51:G:OP2	1:B:152:A:H5'	1.92	0.68
1:B:255:A:N9	1:B:275:C:O2'	2.26	0.68
1:B:300:A:C1'	1:B:300:A:C4	2.72	0.68
1:B:391:A:C1'	1:B:391:A:C4	2.72	0.68
1:B:529:A:H62	1:B:941:A:H5'	1.58	0.68
1:B:538:A:C5'	1:B:968:C:O2'	2.41	0.68
1:B:570:G:O3'	1:B:572:A:H5"	1.93	0.68
1:B:929:U:C5	1:B:931:U:C5	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1040:A:C1'	1:B:1040:A:C4	2.72	0.68
1:B:1109:C:H2'	1:B:1111:A:OP1	1.94	0.68
1:B:1131:G:H8	1:B:1132:U:C3'	1.98	0.68
1:B:1135:C:H2'	1:B:1135:C:O2	1.93	0.68
1:B:1163:G:O3'	1:B:1164:C:P	2.50	0.68
1:B:1284:A:O3'	1:B:2012:G:H8	1.76	0.68
1:B:1366:A:C1'	1:B:1366:A:C4	2.73	0.68
1:B:1419:A:H1'	1:B:1573:G:H8	1.54	0.68
1:B:1428:C:H4'	1:B:1429:G:C4'	2.21	0.68
1:B:1527:G:C1'	1:B:1529:G:OP1	2.41	0.68
1:B:1616:A:C1'	1:B:1616:A:C4	2.73	0.68
1:B:1854:A:P	1:B:1888:G:C2'	2.81	0.68
1:B:1855:U:C2'	1:B:1886:U:OP1	2.40	0.68
1:B:1870:C:H5	1:B:1872:A:N1	1.90	0.68
1:B:1882:U:C2'	1:B:1883:U:H5"	2.22	0.68
1:B:1978:A:C1'	1:B:1978:A:C4	2.74	0.68
1:B:2167:U:OP2	1:B:2168:G:C4'	2.41	0.68
1:B:2172:U:H2'	1:B:2173:A:O5'	1.93	0.68
1:B:2226:C:H2'	1:B:2227:A:C4'	2.23	0.68
1:B:2426:A:C1'	1:B:2426:A:C4	2.74	0.68
1:B:2556:C:H5"	1:B:2557:G:H5'	1.75	0.68
1:B:2639:A:H2	1:B:2642:G:O6	1.76	0.68
1:B:15:G:C2	1:B:1252:G:O6	2.45	0.68
1:B:84:A:N7	1:B:85:G:C6	2.60	0.68
1:B:93:G:N7	1:B:499:U:P	2.66	0.68
1:B:99:U:C5'	1:B:102:U:C2	2.77	0.68
1:B:215:G:C5'	1:B:257:C:H5'	2.13	0.68
1:B:221:A:N3	1:B:222:A:N3	2.41	0.68
1:B:246:C:H5"	1:B:247:G:OP2	1.93	0.68
1:B:309:A:C1'	1:B:309:A:C4	2.73	0.68
1:B:451:U:H2'	1:B:460:A:OP1	1.94	0.68
1:B:483:A:O2'	1:B:484:C:H4'	1.92	0.68
1:B:601:C:C4'	1:B:602:A:P	2.81	0.68
1:B:616:A:C1'	1:B:616:A:C4	2.73	0.68
1:B:739:A:H3'	1:B:740:C:H5'	0.68	0.68
1:B:810:U:C6	1:B:1196:C:N4	2.61	0.68
1:B:931:U:OP1	1:B:934:U:C5	2.45	0.68
1:B:959:A:C1'	1:B:959:A:C4	2.73	0.68
1:B:1023:U:C1'	1:B:1023:U:OP1	2.30	0.68
1:B:1048:A:C5'	1:B:1103:A:P	2.81	0.68
1:B:1692:U:C2	1:B:1697:G:H1'	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1739:A:C1'	1:B:1739:A:C4	2.72	0.68
1:B:1754:A:C5'	1:B:1988:G:N2	2.56	0.68
1:B:1803:A:C3'	1:B:1804:C:H5'	2.23	0.68
1:B:1828:G:H1	1:B:2443:C:H1'	1.59	0.68
1:B:1852:U:C2	1:B:1885:A:C8	2.81	0.68
1:B:1854:A:C4'	1:B:1888:G:N9	2.53	0.68
1:B:1869:G:O2'	1:B:2159:G:OP1	2.10	0.68
1:B:1941:C:C2'	1:B:1942:C:OP2	2.41	0.68
1:B:1950:G:C2	1:B:1951:U:C1'	2.74	0.68
1:B:2060:A:N7	1:B:2448:A:N3	2.41	0.68
1:B:2115:G:N1	1:B:2172:U:C4	2.57	0.68
1:B:2275:C:H5'	1:B:2427:C:C1'	2.22	0.68
1:B:2787:C:H5"	1:B:2812:G:HO2'	1.53	0.68
1:B:2788:C:H4'	1:B:2789:C:OP2	1.91	0.68
1:B:2807:U:C3'	1:B:2890:G:H22	2.06	0.68
1:B:2834:G:O2'	1:B:2879:A:N6	2.25	0.68
1:B:10:A:C5'	1:B:525:U:O2'	2.41	0.68
1:B:12:U:C5'	1:B:1195:G:H21	2.05	0.68
1:B:52:A:C1'	1:B:52:A:C4	2.73	0.68
1:B:120:U:C1'	1:B:148:U:OP1	2.41	0.68
1:B:189:G:C3'	1:B:190:A:HO2'	2.04	0.68
1:B:239:C:OP1	1:B:274:C:C3'	2.41	0.68
1:B:793:A:C1'	1:B:793:A:C4	2.72	0.68
1:B:990:A:C8	1:B:1157:G:OP1	2.46	0.68
1:B:1016:G:O2'	1:B:2754:U:C5	2.45	0.68
1:B:1116:G:C5'	1:B:2750:A:O3'	2.40	0.68
1:B:1189:A:C5'	1:B:1190:G:H5'	2.21	0.68
1:B:1463:C:N4	1:B:1544:A:O2'	2.26	0.68
1:B:1496:A:C1'	1:B:1496:A:C4	2.73	0.68
1:B:1654:A:N3	1:B:1655:A:H2	1.92	0.68
1:B:1668:A:P	1:B:1669:A:H5'	2.33	0.68
1:B:1753:G:C1'	1:B:1753:G:C4	2.73	0.68
1:B:1841:U:O2'	1:B:1842:G:H5'	1.94	0.68
1:B:1858:A:C1'	1:B:1858:A:C4	2.74	0.68
1:B:1916:A:C1'	1:B:1916:A:C4	2.73	0.68
1:B:2055:C:H3'	1:B:2056:G:P	2.32	0.68
1:B:2172:U:C2'	1:B:2173:A:H5'	2.23	0.68
1:B:2335:A:C8	1:B:2336:A:O4'	2.47	0.68
1:B:2542:A:H1'	1:B:2565:A:C4	2.28	0.68
1:B:2821:A:H1'	1:B:2822:G:H3'	1.74	0.68
1:B:2851:A:N7	1:B:2871:U:C4	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:G:OP1	1:B:46:G:O4'	2.12	0.68
1:B:76:C:P	1:B:120:U:OP1	2.52	0.68
1:B:99:U:C3'	1:B:102:U:O4'	2.33	0.68
1:B:241:A:O3'	1:B:254:G:N1	2.26	0.68
1:B:500:G:C5'	1:B:503:A:O5'	2.40	0.68
1:B:566:U:C5	1:B:836:G:O5'	2.47	0.68
1:B:695:G:OP1	1:B:1961:C:O3'	2.12	0.68
1:B:763:G:O6	1:B:1948:G:O2'	2.12	0.68
1:B:789:A:C1'	1:B:789:A:C4	2.72	0.68
1:B:1223:G:C8	1:B:1224:U:H1'	2.28	0.68
1:B:1242:U:H5'	1:B:1243:C:O4'	1.91	0.68
1:B:1353:A:C1'	1:B:1353:A:C4	2.73	0.68
1:B:1469:A:H5'	1:B:1528:A:N7	2.08	0.68
1:B:1526:C:C1'	1:B:1526:C:C6	2.74	0.68
1:B:1598:A:C3'	1:B:1599:U:OP1	2.41	0.68
1:B:1870:C:C1'	1:B:2159:G:C8	2.75	0.68
1:B:1884:G:C4'	1:B:1885:A:C3'	2.59	0.68
1:B:2103:C:C5'	1:B:2104:C:O5'	2.41	0.68
1:B:2115:G:O5'	1:B:2122:U:OP2	2.11	0.68
1:B:2143:C:H5"	1:B:2144:G:OP2	1.92	0.68
1:B:2202:U:H5"	1:B:2203:U:C5'	2.24	0.68
1:B:2824:C:H2'	1:B:2824:C:O2	1.93	0.68
1:B:2858:C:H5"	1:B:2859:G:OP2	1.93	0.68
1:B:99:U:N3	1:B:102:U:H4'	2.09	0.68
1:B:101:A:C2'	1:B:103:A:C3'	2.67	0.68
1:B:167:A:H4'	1:B:168:G:O5'	1.93	0.68
1:B:270:A:H2'	1:B:271:G:P	2.33	0.68
1:B:282:A:O2'	1:B:370:G:N2	2.24	0.68
1:B:320:A:C2	1:B:324:A:N9	2.59	0.68
1:B:411:G:C4'	1:B:2406:A:H3'	2.22	0.68
1:B:446:G:H5'	1:B:472:A:H5'	1.60	0.68
1:B:608:A:H4'	1:B:609:A:C5	2.28	0.68
1:B:811:U:C1'	1:B:811:U:C6	2.76	0.68
1:B:1028:A:C1'	1:B:1028:A:C4	2.71	0.68
1:B:1117:C:C4'	1:B:1129:A:O3'	2.42	0.68
1:B:1138:G:OP2	1:B:1139:G:N7	2.26	0.68
1:B:1197:G:H1'	1:B:1256:G:H1'	1.74	0.68
1:B:1268:A:N6	1:B:2005:A:C5	2.62	0.68
1:B:1283:G:C3'	1:B:2012:G:C3'	2.71	0.68
1:B:1353:A:C1'	1:B:1373:A:OP1	2.42	0.68
1:B:1528:A:C3'	1:B:1529:G:P	2.81	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1692:U:C5'	1:B:1698:A:C8	2.77	0.68
1:B:1791:A:C2	1:B:1929:G:O3'	2.44	0.68
1:B:1853:A:C5'	1:B:1857:G:H3'	2.23	0.68
1:B:1953:A:C8	1:B:1955:U:O2	2.47	0.68
1:B:2202:U:H2'	1:B:2204:G:C4'	2.24	0.68
1:B:2263:C:P	1:B:2424:C:H2'	2.33	0.68
1:B:2799:A:H8	1:B:2799:A:P	2.15	0.68
1:B:2871:U:C5'	1:B:2872:A:OP1	2.40	0.68
1:B:11:C:O2'	1:B:1196:C:OP2	2.10	0.68
1:B:14:A:H4'	1:B:1256:G:C6	2.29	0.68
1:B:26:G:C1'	1:B:26:G:C4	2.73	0.68
1:B:28:A:C5	1:B:1252:G:C1'	2.73	0.68
1:B:246:C:H3'	1:B:247:G:H5"	1.73	0.68
1:B:258:G:OP2	1:B:278:A:O5'	2.11	0.68
1:B:332:A:C1'	1:B:332:A:C4	2.73	0.68
1:B:362:A:C1'	1:B:362:A:C4	2.73	0.68
1:B:501:A:C3'	1:B:505:A:O2'	2.42	0.68
1:B:512:G:O6	1:B:516:C:C5	2.47	0.68
1:B:821:A:N3	1:B:2628:C:C5	2.62	0.68
1:B:926:G:C4'	1:B:927:A:O5'	2.42	0.68
1:B:973:A:C1'	1:B:973:A:C4	2.72	0.68
1:B:1204:A:C2	1:B:1243:C:H5	2.11	0.68
1:B:1226:A:C1'	1:B:1226:A:C4	2.74	0.68
1:B:1283:G:H2'	1:B:2012:G:H3'	1.76	0.68
1:B:1326:U:C6	1:B:1327:A:OP2	2.47	0.68
1:B:1460:U:H1'	1:B:1542:U:OP1	1.93	0.68
1:B:1523:U:O2'	1:B:1524:G:H5'	1.94	0.68
1:B:1535:A:C1'	1:B:1535:A:C4	2.73	0.68
1:B:1543:G:C3'	1:B:1544:A:H5"	2.24	0.68
1:B:1553:A:C1'	1:B:1553:A:C4	2.72	0.68
1:B:1598:A:C1'	1:B:1598:A:C4	2.73	0.68
1:B:1615:C:C2	1:B:1616:A:C8	2.81	0.68
1:B:1631:G:C2'	1:B:1632:A:N7	2.56	0.68
1:B:1676:A:C1'	1:B:1676:A:C4	2.71	0.68
1:B:1759:A:O2'	1:B:1992:G:H2'	1.94	0.68
1:B:1815:A:H2'	1:B:1816:C:H5'	1.75	0.68
1:B:1816:C:C5'	1:B:1817:G:N3	2.56	0.68
1:B:1847:A:C1'	1:B:2231:U:O2'	2.41	0.68
1:B:1853:A:N9	1:B:1888:G:N7	2.41	0.68
1:B:1853:A:C5	1:B:1855:U:C4'	2.77	0.68
1:B:1913:A:H2'	1:B:1914:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2015:A:C1'	1:B:2015:A:C4	2.75	0.68
1:B:2212:A:C1'	1:B:2212:A:C4	2.73	0.68
1:B:2493:U:H5'	1:B:2494:G:N7	2.09	0.68
1:B:2530:A:C1'	1:B:2530:A:C4	2.73	0.68
1:B:2770:G:C1'	1:B:2770:G:C4	2.74	0.68
1:B:11:C:C5'	1:B:586:A:H5'	2.21	0.68
1:B:110:G:H2'	1:B:111:A:O5'	1.94	0.68
1:B:402:A:C1'	1:B:402:A:C4	2.72	0.68
1:B:449:A:P	1:B:478:A:C4'	2.77	0.68
1:B:489:G:H3'	1:B:491:G:N7	2.07	0.68
1:B:538:A:C1'	1:B:538:A:C4	2.74	0.68
1:B:757:G:C2'	1:B:758:C:H5'	2.23	0.68
1:B:761:A:C2	1:B:762:U:N3	2.59	0.68
1:B:842:U:H5	1:B:932:U:C6	2.11	0.68
1:B:859:G:C2	1:B:912:C:C5	2.79	0.68
1:B:1234:U:OP2	1:B:1236:G:OP1	2.11	0.68
1:B:1392:A:N7	1:B:1394:U:O2	2.27	0.68
1:B:1449:G:N2	1:B:1467:U:C5	2.57	0.68
1:B:1459:G:C4	1:B:1461:C:C5	2.82	0.68
1:B:1480:C:O2'	1:B:1481:U:H4'	1.93	0.68
1:B:1674:G:O5'	1:B:1702:G:OP2	2.12	0.68
1:B:1712:U:C3'	1:B:1713:A:C5'	2.71	0.68
1:B:1827:U:OP1	1:B:1968:G:C3'	2.41	0.68
1:B:1886:U:H2'	1:B:1886:U:O2	1.94	0.68
1:B:2109:U:C3'	1:B:2111:U:OP2	2.39	0.68
1:B:2170:A:C1'	1:B:2170:A:C4	2.73	0.68
1:B:2232:C:C3'	1:B:2233:U:H4'	2.23	0.68
1:B:2378:A:C1'	1:B:2378:A:C4	2.73	0.68
1:B:2654:A:OP1	1:B:2654:A:H8	1.77	0.68
1:B:2835:A:C1'	1:B:2835:A:C4	2.73	0.68
1:B:15:G:C1'	1:B:15:G:C4	2.72	0.68
1:B:26:G:C5'	1:B:26:G:O4'	2.41	0.68
1:B:366:C:OP1	1:B:367:G:H3'	1.94	0.68
1:B:502:A:C1'	1:B:502:A:C4	2.73	0.68
1:B:586:A:OP1	1:B:1196:C:C6	2.47	0.68
1:B:672:C:H5	1:B:1251:C:N4	1.92	0.68
1:B:714:U:H2'	1:B:715:A:C8	2.29	0.68
1:B:834:G:C5'	1:B:977:G:H5"	2.23	0.68
1:B:919:U:H5"	1:B:920:A:O5'	1.93	0.68
1:B:1274:A:H1'	1:B:1288:G:OP1	1.94	0.68
1:B:1854:A:OP1	1:B:1888:G:O3'	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1932:A:C1'	1:B:1932:A:C4	2.73	0.68
1:B:2258:C:C3'	1:B:2259:U:OP2	2.42	0.68
1:B:2346:A:C1'	1:B:2346:A:C4	2.72	0.68
1:B:98:G:P	1:B:103:A:C1'	2.81	0.68
1:B:215:G:H1'	1:B:257:C:C5	2.29	0.68
1:B:449:A:C1'	1:B:449:A:C4	2.73	0.68
1:B:460:A:C5	1:B:593:U:OP1	2.47	0.68
1:B:466:A:C1'	1:B:466:A:C4	2.72	0.68
1:B:489:G:P	1:B:509:C:H42	2.16	0.68
1:B:574:A:C8	1:B:2042:A:O5'	2.47	0.68
1:B:1354:A:C1'	1:B:1354:A:C4	2.72	0.68
1:B:1378:A:C1'	1:B:1378:A:C4	2.72	0.68
1:B:1430:C:H1'	1:B:1566:A:N6	2.09	0.68
1:B:1445:G:H4'	1:B:1446:C:C5	2.28	0.68
1:B:1472:C:H5	1:B:1515:A:C2	2.10	0.68
1:B:1853:A:C5	1:B:1888:G:N7	2.62	0.68
1:B:1870:C:C6	1:B:1872:A:N6	2.62	0.68
1:B:2013:A:H5'	1:B:2014:A:C5	2.27	0.68
1:B:2061:G:O6	1:B:2552:U:H5'	1.93	0.68
1:B:2325:G:C1'	1:B:2325:G:C4	2.75	0.68
1:B:2556:C:H5"	1:B:2557:G:C5'	2.21	0.68
1:B:2871:U:H5"	1:B:2872:A:C1'	2.24	0.68
1:B:164:C:H2'	1:B:165:A:O4'	1.94	0.67
1:B:179:C:O3'	1:B:197:A:C5'	2.41	0.67
1:B:215:G:HO2'	1:B:257:C:P	2.15	0.67
1:B:216:A:N7	1:B:257:C:N3	2.42	0.67
1:B:218:A:C1'	1:B:218:A:C4	2.73	0.67
1:B:307:G:H5'	1:B:308:G:OP1	1.94	0.67
1:B:310:A:C2'	1:B:483:A:N6	2.57	0.67
1:B:372:G:C8	1:B:373:U:C6	2.82	0.67
1:B:448:U:C2'	1:B:478:A:C4	2.77	0.67
1:B:574:A:C2	1:B:2040:G:OP2	2.47	0.67
1:B:619:G:H1'	1:B:621:A:N9	2.08	0.67
1:B:650:C:C5	1:B:652:U:OP2	2.47	0.67
1:B:752:A:C8	1:B:752:A:OP2	2.47	0.67
1:B:941:A:C1'	1:B:941:A:C4	2.73	0.67
1:B:1000:A:N7	1:B:1150:C:H5	1.89	0.67
1:B:1128:G:N3	1:B:2751:G:O3'	2.27	0.67
1:B:1373:A:C1'	1:B:1373:A:C4	2.72	0.67
1:B:1419:A:H2	1:B:1573:G:C5'	2.02	0.67
1:B:1426:G:C1'	1:B:1426:G:C4	2.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1523:U:O3'	1:B:1527:G:H5'	1.92	0.67
1:B:1570:A:N6	1:B:1572:A:N7	2.42	0.67
1:B:1673:G:H5'	1:B:1678:A:H62	1.58	0.67
1:B:1736:U:C5	1:B:1739:A:O2'	2.47	0.67
1:B:1780:A:C5	1:B:1783:A:N6	2.62	0.67
1:B:1790:C:N4	1:B:1829:A:H3'	2.08	0.67
1:B:1791:A:N3	1:B:1934:C:O4'	2.27	0.67
1:B:1816:C:H5'	1:B:1817:G:N3	2.08	0.67
1:B:1855:U:C1'	1:B:1884:G:C2'	2.66	0.67
1:B:1865:U:C3'	1:B:1866:A:P	2.82	0.67
1:B:1932:A:C3'	1:B:1941:C:C2	2.76	0.67
1:B:1933:G:C8	1:B:1938:A:O3'	2.47	0.67
1:B:2138:G:H2'	1:B:2139:U:O2	1.94	0.67
1:B:2598:A:C1'	1:B:2598:A:C4	2.73	0.67
1:B:2682:A:C5'	1:B:2683:C:H5	2.07	0.67
1:B:2685:G:C8	1:B:2722:G:N2	2.61	0.67
1:B:2713:U:C2'	1:B:2714:G:C5'	2.71	0.67
1:B:2786:U:O2'	1:B:2813:A:C4'	2.35	0.67
1:B:23:G:P	1:B:511:U:O2'	2.52	0.67
1:B:27:G:H21	1:B:1248:G:H4'	1.55	0.67
1:B:75:G:C3'	1:B:119:A:C4'	2.71	0.67
1:B:262:A:C5'	1:B:429:A:O3'	2.41	0.67
1:B:265:A:C4	1:B:369:U:C1'	2.76	0.67
1:B:300:A:N6	1:B:481:G:C6	2.61	0.67
1:B:435:C:O3'	1:B:435:C:C2'	2.41	0.67
1:B:448:U:O3'	1:B:478:A:C4'	2.34	0.67
1:B:715:A:C1'	1:B:715:A:C4	2.73	0.67
1:B:778:G:C8	1:B:779:U:H4'	2.29	0.67
1:B:802:A:C2'	1:B:1252:G:N2	2.42	0.67
1:B:802:A:OP1	1:B:802:A:N3	2.26	0.67
1:B:803:U:C6	1:B:1255:U:P	2.81	0.67
1:B:805:G:C3'	1:B:806:C:H5'	2.24	0.67
1:B:842:U:OP2	1:B:932:U:C4	2.47	0.67
1:B:900:A:C1'	1:B:900:A:C4	2.73	0.67
1:B:1129:A:C8	1:B:2752:C:C1'	2.75	0.67
1:B:1135:C:C6	1:B:1140:C:H5'	2.21	0.67
1:B:1214:A:C1'	1:B:1214:A:C4	2.74	0.67
1:B:1299:G:N3	1:B:1300:G:H8	1.91	0.67
1:B:1310:G:C1'	1:B:1310:G:C4	2.73	0.67
1:B:1416:G:O3'	1:B:1637:A:H5"	1.84	0.67
1:B:1418:G:O4'	1:B:1635:A:C6	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1451:C:C5	1:B:1455:G:O6	2.46	0.67
1:B:1853:A:N3	1:B:1855:U:O5'	2.27	0.67
1:B:1872:A:C1'	1:B:1872:A:C4	2.72	0.67
1:B:1890:A:C1'	1:B:1890:A:C4	2.73	0.67
1:B:1905:C:O3'	1:B:1937:A:OP2	2.09	0.67
1:B:2126:A:C1'	1:B:2126:A:C4	2.73	0.67
1:B:2198:A:C1'	1:B:2198:A:C4	2.73	0.67
1:B:2322:A:C1'	1:B:2322:A:C4	2.72	0.67
1:B:2384:U:HO3'	1:B:2385:C:P	2.15	0.67
1:B:2474:U:O3'	1:B:2476:A:H1'	1.94	0.67
1:B:2675:A:H2'	1:B:2677:G:OP2	1.94	0.67
1:B:2734:A:C1'	1:B:2734:A:C4	2.74	0.67
1:B:2799:A:C1'	1:B:2799:A:C4	2.74	0.67
1:B:2848:G:O2'	1:B:2871:U:P	2.53	0.67
1:B:222:A:C4'	1:B:223:A:OP1	2.42	0.67
1:B:263:G:H5'	1:B:359:G:H2'	1.74	0.67
1:B:345:A:C1'	1:B:345:A:C4	2.73	0.67
1:B:374:A:OP2	1:B:376:G:C5'	2.42	0.67
1:B:405:U:O2	1:B:405:U:H2'	1.93	0.67
1:B:412:A:H4'	1:B:2405:G:N2	2.09	0.67
1:B:453:A:C1'	1:B:453:A:C4	2.72	0.67
1:B:525:U:O3'	1:B:811:U:C6	2.48	0.67
1:B:536:G:P	1:B:950:G:H1'	2.34	0.67
1:B:574:A:C5'	1:B:2043:C:O3'	2.42	0.67
1:B:685:A:O4'	1:B:788:A:C8	2.47	0.67
1:B:804:A:O2'	1:B:1254:A:N6	2.27	0.67
1:B:858:G:N1	1:B:913:U:C2	2.61	0.67
1:B:905:A:C2'	1:B:906:U:H5'	2.23	0.67
1:B:943:A:C1'	1:B:943:A:C4	2.75	0.67
1:B:1023:U:C5	1:B:2481:G:H1'	2.28	0.67
1:B:1029:A:C1'	1:B:1029:A:C4	2.72	0.67
1:B:1264:A:C1'	1:B:1264:A:C4	2.74	0.67
1:B:1598:A:O3'	1:B:1599:U:OP1	2.10	0.67
1:B:1609:A:N9	1:B:1621:U:O2'	2.27	0.67
1:B:1641:A:C6	1:B:1642:G:C8	2.81	0.67
1:B:1757:A:C1'	1:B:1757:A:C4	2.72	0.67
1:B:1855:U:C5'	1:B:1855:U:O4'	2.42	0.67
1:B:2270:A:C1'	1:B:2270:A:C4	2.73	0.67
1:B:2281:A:H5"	1:B:2282:G:C5'	2.24	0.67
1:B:2320:U:OP2	1:B:2322:A:OP2	2.12	0.67
1:B:2869:G:H2'	1:B:2870:C:O5'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:G:OP1	1:B:672:C:O2'	2.09	0.67
1:B:51:G:O5'	1:B:151:C:O2'	2.13	0.67
1:B:71:A:H5'	1:B:114:U:OP1	1.95	0.67
1:B:98:G:H1'	1:B:101:A:H2'	1.75	0.67
1:B:103:A:C8	1:B:104:A:N6	2.54	0.67
1:B:203:A:OP2	1:B:204:A:C8	2.48	0.67
1:B:223:A:H5'	1:B:224:U:C4'	2.25	0.67
1:B:321:U:OP2	1:B:324:A:C4	2.47	0.67
1:B:370:G:OP2	1:B:429:A:C5	2.48	0.67
1:B:530:G:P	1:B:948:C:H5"	2.34	0.67
1:B:561:G:C1'	1:B:561:G:C4	2.74	0.67
1:B:783:A:C1'	1:B:783:A:C4	2.74	0.67
1:B:1026:G:H1'	1:B:1027:A:N3	2.09	0.67
1:B:1417:C:O2	1:B:1635:A:H2	1.76	0.67
1:B:1614:A:C1'	1:B:1614:A:C4	2.73	0.67
1:B:1655:A:C2	1:B:1656:C:H1'	2.29	0.67
1:B:1695:G:C2'	1:B:2704:C:O2	2.42	0.67
1:B:1755:A:C5'	1:B:1764:C:O2'	2.42	0.67
1:B:1762:A:C1'	1:B:1762:A:C4	2.73	0.67
1:B:1913:A:H2'	1:B:1914:C:H6	1.57	0.67
1:B:2286:G:O2'	1:B:2288:A:H1'	1.93	0.67
1:B:2497:A:C5'	1:B:2658:C:O2	2.43	0.67
1:B:2563:U:O2'	1:B:2564:A:H5'	1.95	0.67
1:B:2655:G:N3	1:B:2656:U:C5	2.62	0.67
1:B:2790:U:H5'	1:B:2891:U:OP2	1.95	0.67
1:B:2826:A:C1'	1:B:2826:A:C4	2.71	0.67
1:B:27:G:C1'	1:B:27:G:C4	2.74	0.67
1:B:53:A:H4'	1:B:53:A:H5"	1.68	0.67
1:B:78:U:C5	1:B:99:U:H5"	2.29	0.67
1:B:244:A:N3	1:B:248:G:H5"	2.08	0.67
1:B:317:G:C5'	1:B:321:U:C5	2.76	0.67
1:B:457:A:N9	1:B:657:U:OP1	2.27	0.67
1:B:482:A:C1'	1:B:482:A:C4	2.73	0.67
1:B:563:A:N6	1:B:988:A:N1	2.43	0.67
1:B:565:C:H5"	1:B:836:G:N7	2.09	0.67
1:B:566:U:C4	1:B:836:G:O3'	2.47	0.67
1:B:588:U:O3'	1:B:589:U:O5'	2.12	0.67
1:B:861:A:O4'	1:B:862:G:C8	2.48	0.67
1:B:1024:G:H5'	1:B:2469:A:H61	1.59	0.67
1:B:1024:G:C5'	1:B:2467:C:H4'	2.24	0.67
1:B:1135:C:C5'	1:B:1140:C:H3'	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1365:A:C1'	1:B:1365:A:C4	2.72	0.67
1:B:1553:A:O2'	1:B:1555:G:N7	2.28	0.67
1:B:1672:A:H3'	1:B:1673:G:O2'	1.94	0.67
1:B:1673:G:H5'	1:B:1678:A:N7	2.09	0.67
1:B:1833:C:H2'	1:B:1931:U:C5'	2.24	0.67
1:B:1929:G:O5'	1:B:1930:G:OP1	2.12	0.67
1:B:1933:G:H1'	1:B:1939:5MU:H4'	1.75	0.67
1:B:2172:U:C2	1:B:2174:C:C5	2.82	0.67
1:B:2199:A:C2'	1:B:2200:C:H5"	2.21	0.67
1:B:2309:A:C1'	1:B:2309:A:C4	2.73	0.67
1:B:2740:A:C2'	1:B:2742:G:OP2	2.32	0.67
1:B:2833:U:OP1	1:B:2834:G:C4'	2.42	0.67
1:B:2846:G:C5'	1:B:2846:G:H4'	2.14	0.67
1:B:27:G:H21	1:B:1248:G:C4'	2.06	0.67
1:B:28:A:N7	1:B:673:C:O2'	2.28	0.67
1:B:63:A:C1'	1:B:63:A:C4	2.73	0.67
1:B:84:A:C1'	1:B:84:A:C4	2.72	0.67
1:B:144:A:H5"	1:B:1328:A:OP2	1.92	0.67
1:B:229:C:C2	1:B:230:G:C8	2.83	0.67
1:B:271:G:O3'	1:B:2156:G:O6	2.13	0.67
1:B:324:A:O3'	1:B:325:G:O5'	2.11	0.67
1:B:362:A:H5'	1:B:428:A:H4'	1.74	0.67
1:B:374:A:C4'	1:B:375:G:H5"	2.25	0.67
1:B:451:U:H1'	1:B:460:A:O5'	1.95	0.67
1:B:489:G:H8	1:B:490:C:C4	2.13	0.67
1:B:633:A:H5'	1:B:634:C:O4'	1.93	0.67
1:B:674:G:O5'	1:B:1249:U:H5'	1.95	0.67
1:B:705:A:H61	1:B:725:G:C3'	2.08	0.67
1:B:764:A:H61	1:B:1948:G:C1'	2.02	0.67
1:B:777:G:H21	1:B:788:A:C2'	2.05	0.67
1:B:780:G:C1'	1:B:780:G:C4	2.75	0.67
1:B:857:G:C2	1:B:912:C:H3'	2.30	0.67
1:B:927:A:C5'	1:B:927:A:H4'	2.14	0.67
1:B:980:A:N1	1:B:982:C:C4	2.63	0.67
1:B:1024:G:N3	1:B:2469:A:H2'	2.09	0.67
1:B:1024:G:N7	1:B:2467:C:OP2	2.28	0.67
1:B:1028:A:HO2'	1:B:1144:A:H2	1.40	0.67
1:B:1030:C:N4	1:B:1126:A:C1'	2.57	0.67
1:B:1040:A:C2	1:B:1045:C:O2	2.48	0.67
1:B:1675:C:H4'	1:B:1679:A:C8	2.30	0.67
1:B:1728:C:O2'	1:B:1729:U:H5	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1841:U:C2'	1:B:1842:G:H5'	2.25	0.67
1:B:1852:U:C3'	1:B:1885:A:O4'	2.43	0.67
1:B:1854:A:C1'	1:B:1854:A:C4	2.74	0.67
1:B:1855:U:C6	1:B:1886:U:OP1	2.48	0.67
1:B:1952:A:C2	1:B:1954:G:OP2	2.46	0.67
1:B:2061:G:C6	1:B:2552:U:C5'	2.78	0.67
1:B:2117:A:C2'	1:B:2172:U:O4	2.37	0.67
1:B:2287:A:C4'	1:B:2288:A:C8	2.77	0.67
1:B:2466:C:C2'	1:B:2467:C:OP1	2.43	0.67
1:B:2775:G:O2'	1:B:2776:A:OP1	2.12	0.67
1:B:45:G:C3'	1:B:46:G:P	2.83	0.67
1:B:101:A:C2'	1:B:103:A:O3'	2.43	0.67
1:B:221:A:C2	1:B:278:A:N3	2.63	0.67
1:B:233:A:C6	1:B:235:U:C5'	2.78	0.67
1:B:294:A:C5	1:B:337:C:H1'	2.30	0.67
1:B:329:G:H22	1:B:330:A:N6	1.89	0.67
1:B:450:G:C1'	1:B:452:G:HO2'	2.07	0.67
1:B:601:C:C4'	1:B:604:G:C4'	2.67	0.67
1:B:811:U:O3'	1:B:811:U:H3'	1.86	0.67
1:B:988:A:C1'	1:B:988:A:C4	2.74	0.67
1:B:989:G:N7	1:B:1153:C:C3'	2.58	0.67
1:B:1023:U:C2	1:B:2485:G:O6	2.48	0.67
1:B:1050:A:O3'	1:B:1051:G:OP1	2.12	0.67
1:B:1050:A:OP1	1:B:1052:C:C5	2.47	0.67
1:B:1127:A:C1'	1:B:1127:A:C4	2.72	0.67
1:B:1140:C:H2'	1:B:1140:C:O2	1.94	0.67
1:B:1205:A:H2'	1:B:1206:G:H8	1.57	0.67
1:B:1283:G:C1'	1:B:1283:G:C4	2.75	0.67
1:B:1477:A:C1'	1:B:1477:A:C4	2.75	0.67
1:B:1609:A:C1'	1:B:1609:A:C4	2.74	0.67
1:B:1615:C:O2	1:B:1616:A:C8	2.48	0.67
1:B:1625:C:O2'	1:B:1643:G:H5'	1.92	0.67
1:B:1696:G:H5'	1:B:2703:C:C6	2.29	0.67
1:B:1856:U:P	1:B:1886:U:O5'	2.53	0.67
1:B:1871:A:H2	1:B:2132:U:C5'	1.87	0.67
1:B:1934:C:C1'	1:B:1934:C:C6	2.74	0.67
1:B:2062:A:C1'	1:B:2062:A:C4	2.74	0.67
1:B:2126:A:C3'	1:B:2127:G:C5'	2.73	0.67
1:B:2502:G:H22	1:B:2769:U:H5"	1.59	0.67
1:B:2834:G:H2'	1:B:2879:A:H61	1.60	0.67
1:B:2871:U:O5'	1:B:2872:A:O5'	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:G:H21	1:B:526:A:H2'	1.59	0.67
1:B:100:U:C6	1:B:113:U:H5"	2.30	0.67
1:B:102:U:C6	1:B:102:U:C1'	2.74	0.67
1:B:135:U:H5"	1:B:168:G:C3'	2.25	0.67
1:B:453:A:P	1:B:478:A:H2'	2.35	0.67
1:B:674:G:HO2'	1:B:675:A:C5'	2.07	0.67
1:B:875:G:N2	1:B:899:A:O2'	2.28	0.67
1:B:1017:G:H5"	1:B:2752:C:H5'	1.77	0.67
1:B:1018:U:C5'	1:B:1128:G:O3'	2.42	0.67
1:B:1033:U:OP2	1:B:1127:A:C2	2.48	0.67
1:B:1242:U:H2'	1:B:1242:U:O2	1.95	0.67
1:B:1328:A:H5"	1:B:1329:U:OP1	1.94	0.67
1:B:1418:G:H5"	1:B:1631:G:C6	2.29	0.67
1:B:1696:G:C5'	1:B:2703:C:C6	2.77	0.67
1:B:1913:A:C1'	1:B:1913:A:C4	2.73	0.67
1:B:1940:U:C2'	1:B:2062:A:O3'	2.42	0.67
1:B:2171:A:C1'	1:B:2171:A:C4	2.72	0.67
1:B:2503:A:H5"	1:B:2504:U:O4'	1.88	0.67
1:B:2528:U:OP2	1:B:2529:G:C8	2.48	0.67
1:B:2617:U:H2'	1:B:2618:G:C8	2.29	0.67
1:B:120:U:C1'	1:B:120:U:C6	2.74	0.67
1:B:371:A:C1'	1:B:371:A:C4	2.72	0.67
1:B:488:G:H5"	1:B:509:C:N3	2.09	0.67
1:B:488:G:O2'	1:B:510:C:C5	2.45	0.67
1:B:600:G:C5'	1:B:602:A:O3'	2.42	0.67
1:B:637:A:C1'	1:B:637:A:C4	2.75	0.67
1:B:899:A:H4'	1:B:902:C:C2	2.29	0.67
1:B:926:G:H4'	1:B:927:A:O5'	1.94	0.67
1:B:1025:G:H21	1:B:2477:U:H5"	1.58	0.67
1:B:1048:A:C4'	1:B:1048:A:H5'	2.17	0.67
1:B:1048:A:C4'	1:B:1048:A:H5"	2.17	0.67
1:B:1124:G:O6	1:B:1126:A:C8	2.47	0.67
1:B:1125:G:C5'	1:B:1125:G:O4'	2.42	0.67
1:B:1136:G:C1'	1:B:1136:G:C4	2.76	0.67
1:B:1263:U:C4	1:B:1269:A:H8	2.12	0.67
1:B:1283:G:H3'	1:B:2012:G:C2	2.29	0.67
1:B:1302:A:C1'	1:B:1302:A:C4	2.74	0.67
1:B:1348:C:C1'	1:B:1349:C:C6	2.78	0.67
1:B:1426:G:H4'	1:B:1572:A:H1'	1.73	0.67
1:B:1533:C:H5"	1:B:1534:U:OP2	1.94	0.67
1:B:1586:A:O2'	1:B:1587:G:H8	1.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1627:G:O2'	1:B:1641:A:C1'	2.42	0.67
1:B:1689:A:C1'	1:B:1689:A:C4	2.74	0.67
1:B:1690:A:C1'	1:B:1690:A:C4	2.74	0.67
1:B:1773:A:C1'	1:B:1773:A:C4	2.72	0.67
1:B:1790:C:O2'	1:B:2442:C:O2'	2.13	0.67
1:B:1802:A:C1'	1:B:1802:A:C4	2.74	0.67
1:B:1847:A:C1'	1:B:1847:A:C4	2.73	0.67
1:B:1856:U:H3'	1:B:1886:U:C1'	2.19	0.67
1:B:1943:U:N1	1:B:2071:A:H4'	2.09	0.67
1:B:2091:C:H2'	1:B:2092:U:C6	2.30	0.67
1:B:2103:C:H5"	1:B:2104:C:O5'	1.95	0.67
1:B:2476:A:C1'	1:B:2476:A:C8	2.75	0.67
1:B:2478:A:C1'	1:B:2478:A:C4	2.72	0.67
1:B:2555:U:C2'	1:B:2556:C:OP1	2.43	0.67
1:B:2683:C:N4	1:B:2687:U:H3	1.93	0.67
1:B:2823:A:C1'	1:B:2823:A:C4	2.73	0.67
1:B:2887:A:C2'	1:B:2888:C:OP1	2.41	0.67
1:B:28:A:N7	1:B:1252:G:C1'	2.58	0.67
1:B:98:G:O2'	1:B:101:A:C1'	2.43	0.67
1:B:101:A:O3'	1:B:101:A:C2'	2.42	0.67
1:B:232:G:C1'	1:B:232:G:C4	2.76	0.67
1:B:248:G:C1'	1:B:248:G:C4	2.76	0.67
1:B:516:C:H4'	1:B:1248:G:H5"	1.76	0.67
1:B:572:A:OP2	1:B:2620:C:C5	2.48	0.67
1:B:601:C:H4'	1:B:604:G:C5'	2.24	0.67
1:B:746:PSU:H2'	1:B:747:5MU:H5"	1.77	0.67
1:B:776:G:H4'	1:B:777:G:O4'	1.95	0.67
1:B:866:A:C4	1:B:915:C:O2	2.47	0.67
1:B:1132:U:P	1:B:2753:A:H1'	2.35	0.67
1:B:1185:G:O2'	1:B:1186:G:OP2	2.13	0.67
1:B:1213:A:C1'	1:B:1213:A:C4	2.73	0.67
1:B:1299:G:C8	1:B:1626:A:N6	2.63	0.67
1:B:1377:G:C8	1:B:1378:A:C6	2.80	0.67
1:B:1608:A:N3	1:B:1622:G:OP1	2.27	0.67
1:B:1675:C:H5"	1:B:1679:A:H1'	1.77	0.67
1:B:1676:A:N7	1:B:1690:A:N3	2.42	0.67
1:B:1740:G:H2'	1:B:1741:C:C6	2.30	0.67
1:B:1754:A:H5'	1:B:1988:G:C2	2.30	0.67
1:B:1756:G:C1'	1:B:1757:A:C8	2.78	0.67
1:B:1808:A:C1'	1:B:1808:A:C4	2.72	0.67
1:B:1828:G:H3'	1:B:1970:A:P	2.35	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1853:A:C2	1:B:1855:U:O5’	2.47	0.67
1:B:1883:U:O5’	1:B:1884:G:C5’	2.42	0.67
1:B:1940:U:O2’	1:B:2063:C:P	2.53	0.67
1:B:2309:A:H3’	1:B:2310:C:H6	1.58	0.67
1:B:2733:A:H1’	1:B:2777:G:N2	2.10	0.67
1:B:2849:U:C5’	1:B:2872:A:C2’	2.73	0.67
1:B:2850:A:O3’	1:B:2871:U:C4	2.48	0.67
1:B:2878:U:O3’	1:B:2880:C:OP1	2.13	0.67
1:B:2885:G:C4’	1:B:2887:A:O3’	2.42	0.67
1:B:10:A:H2’	1:B:11:C:O5’	1.93	0.66
1:B:158:U:H5	1:B:160:A:N6	1.93	0.66
1:B:213:A:C1’	1:B:213:A:C4	2.75	0.66
1:B:239:C:H41	1:B:276:U:C3’	2.08	0.66
1:B:240:C:OP2	1:B:275:C:C3’	2.41	0.66
1:B:322:A:H2’	1:B:339:U:OP2	1.95	0.66
1:B:404:A:C1’	1:B:404:A:C4	2.73	0.66
1:B:447:A:O2’	1:B:479:A:N3	2.28	0.66
1:B:450:G:C1’	1:B:450:G:C4	2.72	0.66
1:B:488:G:O2’	1:B:510:C:N4	2.28	0.66
1:B:507:A:H61	1:B:1246:A:N6	1.89	0.66
1:B:574:A:C2’	1:B:2040:G:P	2.83	0.66
1:B:600:G:O3’	1:B:602:A:H5’	1.95	0.66
1:B:675:A:C3’	1:B:1250:G:C8	2.77	0.66
1:B:984:A:C1’	1:B:984:A:C4	2.72	0.66
1:B:1116:G:O2’	1:B:1117:C:O4’	2.13	0.66
1:B:1211:C:H41	1:B:1236:G:H1’	1.60	0.66
1:B:1426:G:O3’	1:B:1572:A:N3	2.29	0.66
1:B:1453:A:H3’	1:B:1526:C:C5’	2.25	0.66
1:B:1608:A:O3’	1:B:1622:G:OP1	2.11	0.66
1:B:1664:A:H3’	1:B:1758:U:H5”	1.77	0.66
1:B:1904:G:O3’	1:B:1927:A:O2’	2.13	0.66
1:B:1928:A:C5’	1:B:1938:A:P	2.82	0.66
1:B:1950:G:H21	1:B:1951:U:H1’	1.58	0.66
1:B:2082:A:C1’	1:B:2082:A:C4	2.72	0.66
1:B:2733:A:H1’	1:B:2777:G:H1	1.59	0.66
1:B:2902:C:C5	1:B:2903:U:O2’	2.20	0.66
1:B:77:G:H5”	1:B:120:U:H6	1.59	0.66
1:B:142:A:H4’	1:B:1330:C:O2	1.95	0.66
1:B:211:C:O2’	1:B:213:A:N3	2.20	0.66
1:B:239:C:P	1:B:274:C:H3’	2.35	0.66
1:B:445:C:C2’	1:B:470:A:N3	2.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:G:C1’	1:B:498:G:C4	2.72	0.66
1:B:749:A:C1’	1:B:749:A:C4	2.72	0.66
1:B:750:A:C1’	1:B:750:A:C4	2.73	0.66
1:B:900:A:C2’	1:B:901:C:H5	2.07	0.66
1:B:1392:A:C1’	1:B:1392:A:C4	2.72	0.66
1:B:1451:C:C4’	1:B:1526:C:C1’	2.66	0.66
1:B:1580:A:C2	1:B:1632:A:OP1	2.46	0.66
1:B:1674:G:OP2	1:B:1678:A:N1	2.27	0.66
1:B:1692:U:C1’	1:B:1697:G:O2’	2.43	0.66
1:B:1696:G:H4’	1:B:1697:G:C5’	2.25	0.66
1:B:1727:C:H3’	1:B:1728:C:C5’	2.25	0.66
1:B:1932:A:O5’	1:B:1941:C:C2	2.49	0.66
1:B:2129:C:H5’	1:B:2166:U:OP1	1.93	0.66
1:B:2162:G:C1’	1:B:2162:G:C4	2.76	0.66
1:B:2406:A:C1’	1:B:2406:A:C4	2.74	0.66
1:B:2442:C:C5	1:B:2443:C:C4	2.83	0.66
1:B:2481:G:C1’	1:B:2481:G:C4	2.76	0.66
1:B:2556:C:H3’	1:B:2558:C:P	2.34	0.66
1:B:2564:A:C1’	1:B:2564:A:C4	2.73	0.66
1:B:196:A:C1’	1:B:196:A:C4	2.73	0.66
1:B:449:A:C4’	1:B:452:G:N3	2.58	0.66
1:B:633:A:C1’	1:B:633:A:C4	2.72	0.66
1:B:783:A:O2’	1:B:784:G:H5”	1.94	0.66
1:B:920:A:O2’	1:B:2597:G:H3’	1.95	0.66
1:B:1047:G:C1’	1:B:1047:G:C4	2.74	0.66
1:B:1050:A:C1’	1:B:1050:A:C4	2.73	0.66
1:B:1130:U:H5”	1:B:2751:G:OP1	1.93	0.66
1:B:1222:U:C5’	1:B:1223:G:OP2	2.43	0.66
1:B:1224:U:OP2	1:B:1224:U:C6	2.48	0.66
1:B:1286:A:H1’	1:B:2010:G:O2’	1.95	0.66
1:B:1762:A:C2	1:B:1992:G:O6	2.48	0.66
1:B:1847:A:C2’	1:B:2231:U:O2’	2.42	0.66
1:B:1884:G:H1’	1:B:1885:A:C2	2.31	0.66
1:B:1928:A:O2’	1:B:1941:C:N4	2.27	0.66
1:B:1942:C:H5”	1:B:2441:U:O3’	1.96	0.66
1:B:2007:U:OP1	1:B:2846:G:O6	2.13	0.66
1:B:2061:G:N2	1:B:2552:U:O3’	2.26	0.66
1:B:2114:A:C8	1:B:2118:U:N3	2.59	0.66
1:B:2388:A:C1’	1:B:2388:A:C4	2.72	0.66
1:B:2873:A:C1’	1:B:2873:A:C4	2.73	0.66
1:B:2883:A:C1’	1:B:2883:A:C4	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:A:C1'	1:B:13:A:C4	2.72	0.66
1:B:143:C:O5'	1:B:1328:A:N3	2.28	0.66
1:B:229:C:H5"	1:B:230:G:OP2	1.94	0.66
1:B:311:A:C5'	1:B:483:A:N6	2.59	0.66
1:B:449:A:O5'	1:B:478:A:C4'	2.43	0.66
1:B:735:A:O2'	1:B:736:C:H5	1.79	0.66
1:B:787:C:H2'	1:B:788:A:H5"	1.76	0.66
1:B:845:A:O3'	1:B:845:A:H4'	1.92	0.66
1:B:846:U:H5	1:B:848:C:C5	2.13	0.66
1:B:858:G:OP2	1:B:859:G:H5'	1.95	0.66
1:B:877:A:C1'	1:B:877:A:C4	2.74	0.66
1:B:927:A:O5'	1:B:928:A:OP1	2.13	0.66
1:B:941:A:H5"	1:B:947:A:C4'	2.25	0.66
1:B:1048:A:O2'	1:B:1049:C:C6	2.49	0.66
1:B:1353:A:C5'	1:B:1354:A:N7	2.58	0.66
1:B:1382:G:C5'	1:B:1383:A:OP2	2.43	0.66
1:B:1454:C:C4	1:B:1470:A:O2'	2.48	0.66
1:B:1610:A:C2	1:B:1611:C:H3'	2.29	0.66
1:B:1819:A:N6	1:B:1934:C:H42	1.94	0.66
1:B:1876:A:C1'	1:B:1876:A:C4	2.74	0.66
1:B:1937:A:C1'	1:B:1937:A:C8	2.75	0.66
1:B:1947:C:C4'	1:B:1963:U:C2	2.77	0.66
1:B:1978:A:C2'	1:B:1979:U:H5'	2.25	0.66
1:B:2425:A:C1'	1:B:2425:A:C4	2.73	0.66
1:B:2482:A:C5'	1:B:2484:G:OP2	2.43	0.66
1:B:2497:A:C1'	1:B:2497:A:C4	2.73	0.66
1:B:2503:A:P	1:B:2504:U:H5'	2.36	0.66
1:B:2643:G:H3'	1:B:2644:G:H5"	1.76	0.66
1:B:2675:A:C1'	1:B:2675:A:C4	2.73	0.66
1:B:2688:G:H2'	1:B:2689:U:C5'	2.25	0.66
1:B:2868:A:N7	1:B:2871:U:H3'	2.10	0.66
1:B:28:A:C4'	1:B:1250:G:H5"	2.26	0.66
1:B:50:U:O2'	1:B:151:C:O3'	2.12	0.66
1:B:100:U:C4	1:B:113:U:C4'	2.74	0.66
1:B:101:A:C4'	1:B:102:U:P	2.80	0.66
1:B:129:C:OP1	1:B:1327:A:N1	2.28	0.66
1:B:222:A:O2'	1:B:224:U:C5	2.48	0.66
1:B:310:A:C2'	1:B:483:A:C5	2.78	0.66
1:B:513:A:H8	1:B:514:A:C5'	2.02	0.66
1:B:672:C:O2'	1:B:673:C:P	2.54	0.66
1:B:685:A:OP1	1:B:775:G:H3'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:739:A:C1'	1:B:739:A:C4	2.75	0.66
1:B:801:G:H22	1:B:1253:A:N6	1.92	0.66
1:B:877:A:H8	1:B:900:A:N1	1.94	0.66
1:B:910:A:C1'	1:B:910:A:C4	2.72	0.66
1:B:979:A:C1'	1:B:979:A:C4	2.73	0.66
1:B:1024:G:C1'	1:B:1024:G:C4	2.75	0.66
1:B:1026:G:H21	1:B:1027:A:H5"	1.59	0.66
1:B:1439:A:C1'	1:B:1439:A:C4	2.73	0.66
1:B:1453:A:N3	1:B:1525:A:C2'	2.58	0.66
1:B:1453:A:C4	1:B:1525:A:O3'	2.49	0.66
1:B:1453:A:C3'	1:B:1526:C:O5'	2.40	0.66
1:B:1632:A:C1'	1:B:1632:A:C4	2.73	0.66
1:B:1790:C:C5	1:B:1829:A:C8	2.78	0.66
1:B:1883:U:H4'	1:B:1884:G:H5'	0.67	0.66
1:B:1905:C:H5'	1:B:1927:A:C3'	2.25	0.66
1:B:1981:A:C1'	1:B:1981:A:C4	2.73	0.66
1:B:2357:G:C1'	1:B:2357:G:C4	2.72	0.66
1:B:2400:G:C5'	1:B:2408:U:OP1	2.43	0.66
1:B:2433:A:C1'	1:B:2433:A:C4	2.73	0.66
1:B:2645:G:C4'	1:B:2646:C:C5	2.62	0.66
1:B:2738:A:C1'	1:B:2741:A:C2	2.78	0.66
1:B:2809:A:O2'	1:B:2810:A:C4'	2.44	0.66
1:B:203:A:C1'	1:B:203:A:C4	2.74	0.66
1:B:215:G:H3'	1:B:219:A:O5'	1.96	0.66
1:B:227:A:C1'	1:B:227:A:C4	2.71	0.66
1:B:229:C:O2	1:B:230:G:C8	2.49	0.66
1:B:242:G:C4'	1:B:254:G:N7	2.59	0.66
1:B:244:A:C1'	1:B:244:A:C4	2.74	0.66
1:B:251:A:C1'	1:B:251:A:C4	2.72	0.66
1:B:319:G:O2'	1:B:320:A:P	2.53	0.66
1:B:362:A:O2'	1:B:363:G:C8	2.48	0.66
1:B:435:C:O2'	1:B:437:U:C5	2.44	0.66
1:B:443:A:C1'	1:B:443:A:C4	2.71	0.66
1:B:460:A:N6	1:B:593:U:OP2	2.24	0.66
1:B:477:A:C1'	1:B:477:A:C4	2.71	0.66
1:B:478:A:C1'	1:B:478:A:C4	2.72	0.66
1:B:507:A:C1'	1:B:507:A:C4	2.76	0.66
1:B:530:G:P	1:B:564:C:N4	2.68	0.66
1:B:630:G:C1'	1:B:630:G:C4	2.76	0.66
1:B:718:A:C1'	1:B:718:A:C4	2.73	0.66
1:B:864:G:C1'	1:B:864:G:C4	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:980:A:C1’	1:B:980:A:C4	2.73	0.66
1:B:1004:U:O2’	1:B:1009:A:H5”	1.96	0.66
1:B:1024:G:C2’	1:B:2470:G:N7	2.59	0.66
1:B:1418:G:H3’	1:B:1631:G:C2	2.30	0.66
1:B:1451:C:H1’	1:B:1457:U:C4	2.30	0.66
1:B:1522:A:H2’	1:B:1528:A:N3	2.10	0.66
1:B:1626:A:C2’	1:B:1627:G:H5’	2.26	0.66
1:B:1675:C:OP2	1:B:1680:U:O3’	2.14	0.66
1:B:1756:G:C1’	1:B:1756:G:C4	2.76	0.66
1:B:1932:A:N7	1:B:1937:A:O5’	2.28	0.66
1:B:2019:A:C1’	1:B:2019:A:C8	2.75	0.66
1:B:2364:C:O2’	1:B:2366:A:C8	2.49	0.66
1:B:311:A:H5’	1:B:483:A:N7	2.10	0.66
1:B:508:A:C1’	1:B:508:A:C8	2.75	0.66
1:B:706:A:O2’	1:B:707:G:P	2.53	0.66
1:B:749:A:N7	1:B:750:A:C8	2.64	0.66
1:B:863:A:C1’	1:B:863:A:C4	2.75	0.66
1:B:1023:U:H3’	1:B:2466:C:N4	2.11	0.66
1:B:1048:A:P	1:B:1049:C:H1’	2.35	0.66
1:B:1240:U:H5	1:B:1241:A:C8	2.10	0.66
1:B:1283:G:C3’	1:B:2012:G:H3’	2.25	0.66
1:B:1428:C:O4’	1:B:1630:A:O2’	2.13	0.66
1:B:1452:G:C8	1:B:1461:C:H1’	2.31	0.66
1:B:1537:G:C1’	1:B:1537:G:C4	2.77	0.66
1:B:1586:A:C1’	1:B:1586:A:C4	2.75	0.66
1:B:1608:A:C1’	1:B:1608:A:C4	2.72	0.66
1:B:1696:G:O2’	1:B:1697:G:OP2	2.14	0.66
1:B:1886:U:O2’	1:B:1887:C:H3’	1.96	0.66
1:B:1935:G:N7	1:B:1973:G:H1’	2.11	0.66
1:B:1971:U:O5’	1:B:2443:C:OP1	2.14	0.66
1:B:2133:G:C5’	1:B:2134:A:C2	2.74	0.66
1:B:2135:A:C1’	1:B:2135:A:C4	2.73	0.66
1:B:2265:U:C2	1:B:2267:A:C5’	2.79	0.66
1:B:2345:G:O5’	1:B:2345:G:OP1	2.12	0.66
1:B:2374:C:H4’	1:B:2413:G:C5’	2.24	0.66
1:B:2451:A:N3	1:B:2562:U:C3’	2.50	0.66
1:B:2819:G:C2’	1:B:2820:A:O5’	2.44	0.66
1:B:2868:A:H3’	1:B:2871:U:O2	1.95	0.66
1:B:2893:A:C1’	1:B:2893:A:C4	2.73	0.66
1:B:91:A:OP2	1:B:91:A:C8	2.49	0.66
1:B:98:G:O4’	1:B:103:A:C4	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:A:O4'	1:B:478:A:N9	2.29	0.66
1:B:501:A:C1'	1:B:501:A:C4	2.73	0.66
1:B:685:A:C4	1:B:686:U:OP1	2.49	0.66
1:B:782:A:C1'	1:B:782:A:C4	2.72	0.66
1:B:886:A:O2'	1:B:887:U:H5	1.79	0.66
1:B:1048:A:C1'	1:B:1048:A:C4	2.73	0.66
1:B:1115:G:C1'	1:B:1115:G:C4	2.74	0.66
1:B:1268:A:C1'	1:B:1268:A:C4	2.74	0.66
1:B:1393:A:H5"	1:B:1394:U:C1'	2.26	0.66
1:B:1418:G:C1'	1:B:1418:G:C4	2.75	0.66
1:B:1459:G:C2	1:B:1543:G:O2'	2.48	0.66
1:B:1552:A:C1'	1:B:1552:A:C4	2.72	0.66
1:B:1579:A:C1'	1:B:1579:A:C4	2.71	0.66
1:B:1654:A:N3	1:B:1655:A:C2	2.64	0.66
1:B:1752:C:H6	1:B:1987:A:O2'	1.72	0.66
1:B:1933:G:C4'	1:B:1941:C:C6	2.79	0.66
1:B:1954:G:H3'	1:B:1955:U:H5	1.60	0.66
1:B:2211:A:C1'	1:B:2211:A:C4	2.73	0.66
1:B:2448:A:C1'	1:B:2448:A:C4	2.74	0.66
1:B:2492:U:H2'	1:B:2493:U:H5'	1.76	0.66
1:B:2542:A:H1'	1:B:2565:A:C5	2.30	0.66
1:B:2799:A:O2'	1:B:2893:A:H5"	1.95	0.66
1:B:2848:G:O2'	1:B:2872:A:H5'	1.96	0.66
1:B:25:U:C2'	1:B:26:G:P	2.83	0.66
1:B:82:U:H2'	1:B:84:A:C5	2.31	0.66
1:B:141:G:C1'	1:B:141:G:C4	2.75	0.66
1:B:143:C:H3'	1:B:1328:A:N3	2.10	0.66
1:B:217:A:O5'	1:B:218:A:C5'	2.43	0.66
1:B:228:C:H3'	1:B:229:C:H6	0.63	0.66
1:B:233:A:C1'	1:B:233:A:C4	2.75	0.66
1:B:442:G:C3'	1:B:443:A:C5'	2.71	0.66
1:B:646:U:C5'	1:B:647:G:H5'	2.25	0.66
1:B:651:G:C1'	1:B:651:G:C4	2.76	0.66
1:B:652:U:H2'	1:B:652:U:O2	1.96	0.66
1:B:677:A:C1'	1:B:677:A:C4	2.75	0.66
1:B:749:A:C1'	1:B:749:A:C8	2.75	0.66
1:B:817:C:H2'	1:B:818:G:H5'	1.78	0.66
1:B:837:C:O2'	1:B:976:G:OP2	2.13	0.66
1:B:859:G:O4'	1:B:860:U:H5	1.79	0.66
1:B:912:C:H6	1:B:912:C:OP1	1.78	0.66
1:B:1418:G:N3	1:B:1635:A:N7	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1494:A:C1'	1:B:1494:A:C4	2.73	0.66
1:B:1573:G:C1'	1:B:1573:G:C4	2.76	0.66
1:B:1584:U:C2	1:B:1586:A:C5'	2.79	0.66
1:B:1784:A:C1'	1:B:1784:A:C4	2.73	0.66
1:B:1936:A:C2'	1:B:1938:A:H8	2.08	0.66
1:B:2082:A:C1'	1:B:2082:A:C8	2.74	0.66
1:B:2252:G:C1'	1:B:2252:G:C4	2.76	0.66
1:B:2275:C:H2'	1:B:2276:G:C8	2.30	0.66
1:B:2322:A:OP1	1:B:2324:U:H5"	1.95	0.66
1:B:2461:A:C5'	1:B:2482:A:H61	2.09	0.66
1:B:2534:A:C1'	1:B:2534:A:C4	2.73	0.66
1:B:2541:A:H2'	1:B:2543:G:C8	2.31	0.66
1:B:2598:A:C2'	1:B:2599:G:O4'	2.43	0.66
1:B:53:A:C1'	1:B:53:A:C4	2.75	0.66
1:B:73:A:C1'	1:B:73:A:C8	2.75	0.66
1:B:101:A:O2'	1:B:102:U:P	2.54	0.66
1:B:264:C:C6	1:B:429:A:N6	2.64	0.66
1:B:310:A:C1'	1:B:310:A:C4	2.73	0.66
1:B:450:G:C8	1:B:593:U:C1'	2.76	0.66
1:B:530:G:O5'	1:B:564:C:N4	2.28	0.66
1:B:574:A:H1'	1:B:2039:U:H4'	1.75	0.66
1:B:585:G:C3'	1:B:1195:G:O2'	2.44	0.66
1:B:705:A:C1'	1:B:705:A:C4	2.75	0.66
1:B:819:A:C1'	1:B:819:A:C4	2.73	0.66
1:B:877:A:C8	1:B:900:A:N1	2.64	0.66
1:B:926:G:C4'	1:B:927:A:P	2.84	0.66
1:B:1130:U:O3'	1:B:2752:C:C2'	2.44	0.66
1:B:1133:A:C1'	1:B:1133:A:C4	2.73	0.66
1:B:1433:A:C1'	1:B:1433:A:C4	2.72	0.66
1:B:1477:A:O5'	1:B:1478:G:C8	2.49	0.66
1:B:1569:A:C5	1:B:1571:A:H3'	2.31	0.66
1:B:1584:U:C4	1:B:1587:G:O6	2.48	0.66
1:B:1633:G:C1'	1:B:1633:G:C4	2.76	0.66
1:B:1639:C:HO2'	1:B:1640:A:C5'	2.06	0.66
1:B:1713:A:C1'	1:B:1713:A:C4	2.73	0.66
1:B:1722:A:C1'	1:B:1722:A:C8	2.75	0.66
1:B:1871:A:C2	1:B:1872:A:C1'	2.77	0.66
1:B:1917:PSU:N3	1:B:1918:A:N7	2.43	0.66
1:B:1932:A:O5'	1:B:1935:G:C5'	2.44	0.66
1:B:1947:C:C5'	1:B:1963:U:C2	2.78	0.66
1:B:1964:G:C1'	1:B:1964:G:C4	2.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2327:A:C3'	1:B:2328:A:H5"	2.25	0.66
1:B:2366:A:C3'	1:B:2367:G:H5'	2.26	0.66
1:B:2867:G:C1'	1:B:2867:G:C4	2.75	0.66
1:B:2885:G:C5'	1:B:2887:A:O3'	2.44	0.66
1:B:28:A:N7	1:B:1252:G:C8	2.63	0.65
1:B:77:G:C5'	1:B:99:U:N1	2.59	0.65
1:B:91:A:C3'	1:B:498:G:N7	2.59	0.65
1:B:213:A:N1	1:B:218:A:N7	2.45	0.65
1:B:264:C:C5'	1:B:369:U:C2'	2.73	0.65
1:B:294:A:C1'	1:B:294:A:C4	2.74	0.65
1:B:344:A:C1'	1:B:344:A:C4	2.73	0.65
1:B:532:A:C4'	1:B:533:G:H5"	2.25	0.65
1:B:745:7MG:OP1	1:B:2614:A:C8	2.49	0.65
1:B:747:5MU:P	1:B:748:G:O3'	2.54	0.65
1:B:748:G:C1'	1:B:748:G:C4	2.75	0.65
1:B:804:A:C1'	1:B:804:A:C4	2.73	0.65
1:B:981:A:C2'	1:B:982:C:H5'	2.20	0.65
1:B:1131:G:O5'	1:B:2752:C:H2'	1.95	0.65
1:B:1211:C:C5'	1:B:1212:G:H5'	2.25	0.65
1:B:1283:G:H3'	1:B:2012:G:H21	1.61	0.65
1:B:1287:A:C1'	1:B:1287:A:C4	2.72	0.65
1:B:1288:G:H3'	1:B:1289:C:OP2	1.96	0.65
1:B:1312:U:H4'	1:B:1639:C:H2'	1.77	0.65
1:B:1559:U:O3'	1:B:1561:C:N4	2.24	0.65
1:B:1568:G:O3'	1:B:1569:A:O2'	2.14	0.65
1:B:1899:A:C1'	1:B:1899:A:C4	2.72	0.65
1:B:1929:G:P	1:B:1938:A:OP1	2.54	0.65
1:B:1929:G:C4'	1:B:1930:G:OP1	2.43	0.65
1:B:2059:A:O2'	1:B:2445:G:O3'	2.13	0.65
1:B:2199:A:C1'	1:B:2199:A:C4	2.73	0.65
1:B:2404:U:OP2	1:B:2405:G:O2'	2.14	0.65
1:B:2429:G:C1'	1:B:2429:G:C4	2.76	0.65
1:B:2440:C:H2'	1:B:2440:C:O2	1.96	0.65
1:B:2521:C:HO3'	1:B:2522:U:P	2.06	0.65
1:B:2849:U:O5'	1:B:2871:U:C1'	2.44	0.65
1:B:11:C:C5	1:B:1195:G:OP2	2.50	0.65
1:B:221:A:P	1:B:277:G:H3'	2.36	0.65
1:B:285:G:H5"	1:B:401:A:C5'	2.20	0.65
1:B:320:A:N3	1:B:324:A:N9	2.44	0.65
1:B:401:A:C1'	1:B:401:A:C4	2.74	0.65
1:B:447:A:H2'	1:B:448:U:OP2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:573:U:OP1	1:B:573:U:O4’	2.14	0.65
1:B:674:G:O4’	1:B:1249:U:O3’	2.13	0.65
1:B:735:A:C1’	1:B:735:A:C4	2.73	0.65
1:B:844:A:OP2	1:B:845:A:H5’	1.96	0.65
1:B:899:A:C1’	1:B:899:A:C4	2.73	0.65
1:B:914:G:N2	1:B:916:G:H2’	2.10	0.65
1:B:1419:A:C1’	1:B:1419:A:C4	2.72	0.65
1:B:1419:A:O3’	1:B:1419:A:C2’	2.44	0.65
1:B:1453:A:H8	1:B:1453:A:P	2.19	0.65
1:B:1568:G:C5’	1:B:1570:A:C8	2.79	0.65
1:B:1721:G:N3	1:B:1738:G:H2’	2.10	0.65
1:B:1791:A:H3’	1:B:1942:C:C6	2.31	0.65
1:B:1810:A:C1’	1:B:1810:A:C4	2.74	0.65
1:B:1852:U:O4	1:B:1883:U:C1’	2.32	0.65
1:B:1852:U:C2’	1:B:1885:A:C8	2.73	0.65
1:B:1891:G:N2	1:B:1892:C:N1	2.42	0.65
1:B:1931:U:H5’	1:B:1935:G:P	2.36	0.65
1:B:1940:U:HO2’	1:B:2063:C:P	2.19	0.65
1:B:1992:G:C1’	1:B:1992:G:C4	2.75	0.65
1:B:2107:G:H3’	1:B:2112:G:P	2.36	0.65
1:B:2163:A:C1’	1:B:2163:A:C4	2.72	0.65
1:B:2364:C:O3’	1:B:2366:A:N3	2.30	0.65
1:B:2392:A:C1’	1:B:2392:A:C4	2.73	0.65
1:B:2725:A:OP2	1:B:2729:G:H5’	1.95	0.65
1:B:2820:A:O2’	1:B:2821:A:P	2.53	0.65
1:B:2884:U:O4	1:B:2889:C:N4	2.29	0.65
1:B:71:A:N9	1:B:101:A:N6	2.40	0.65
1:B:72:U:H3’	1:B:114:U:H5”	1.76	0.65
1:B:620:G:C5’	1:B:621:A:H8	2.09	0.65
1:B:672:C:H5	1:B:1251:C:C5	2.08	0.65
1:B:845:A:H2’	1:B:931:U:O4	1.96	0.65
1:B:1132:U:OP2	1:B:2753:A:C1’	2.45	0.65
1:B:1155:A:C1’	1:B:1155:A:C4	2.73	0.65
1:B:1282:U:C2’	1:B:1285:A:H62	2.07	0.65
1:B:1299:G:N2	1:B:1643:G:H1’	2.12	0.65
1:B:1667:G:O5’	1:B:1668:A:OP2	2.14	0.65
1:B:1712:U:C3’	1:B:1713:A:H5’	2.02	0.65
1:B:2060:A:N7	1:B:2559:C:H1’	2.11	0.65
1:B:2243:U:O2’	1:B:2244:U:H4’	1.96	0.65
1:B:2391:G:C1’	1:B:2391:G:C4	2.75	0.65
1:B:2726:A:C1’	1:B:2726:A:C4	2.72	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2748:A:C1'	1:B:2748:A:C4	2.73	0.65
1:B:12:U:C5	1:B:14:A:O5'	2.50	0.65
1:B:23:G:OP1	1:B:511:U:O2'	2.13	0.65
1:B:28:A:O2'	1:B:1250:G:P	2.55	0.65
1:B:84:A:H62	1:B:97:C:H42	1.44	0.65
1:B:215:G:C8	1:B:216:A:C3'	2.69	0.65
1:B:270:A:H5'	1:B:426:C:H1'	1.79	0.65
1:B:279:A:C1'	1:B:279:A:C4	2.71	0.65
1:B:319:G:O4'	1:B:320:A:C5'	2.37	0.65
1:B:375:G:H21	1:B:401:A:H1'	1.60	0.65
1:B:454:A:C8	1:B:595:C:OP2	2.49	0.65
1:B:457:A:C4	1:B:459:U:OP2	2.49	0.65
1:B:478:A:C1'	1:B:478:A:C8	2.75	0.65
1:B:529:A:P	1:B:973:A:H5'	2.37	0.65
1:B:745:7MG:H5"	1:B:748:G:O2'	1.95	0.65
1:B:758:C:HO2'	1:B:1950:G:P	2.19	0.65
1:B:782:A:C5'	1:B:783:A:C8	2.76	0.65
1:B:974:G:C1'	1:B:974:G:C4	2.76	0.65
1:B:1134:A:C1'	1:B:1134:A:C4	2.73	0.65
1:B:1264:A:N3	1:B:1265:A:C5'	2.56	0.65
1:B:1305:C:C5'	1:B:1646:C:N3	2.59	0.65
1:B:1480:C:HO3'	1:B:1481:U:P	2.13	0.65
1:B:1584:U:O4	1:B:1587:G:C6	2.50	0.65
1:B:1714:U:H2'	1:B:1737:G:N2	2.11	0.65
1:B:1719:G:C1'	1:B:1719:G:C4	2.76	0.65
1:B:1721:G:C1'	1:B:1721:G:C4	2.77	0.65
1:B:1789:A:C2'	1:B:1790:C:OP2	2.44	0.65
1:B:1848:A:OP2	1:B:2089:C:C1'	2.42	0.65
1:B:1853:A:C2'	1:B:1888:G:N9	2.33	0.65
1:B:1933:G:N9	1:B:1939:5MU:O5'	2.29	0.65
1:B:2035:G:C1'	1:B:2035:G:C4	2.77	0.65
1:B:2059:A:C1'	1:B:2059:A:C8	2.75	0.65
1:B:2764:A:C1'	1:B:2764:A:C4	2.73	0.65
1:B:2834:G:O2'	1:B:2887:A:H5"	1.96	0.65
1:B:45:G:OP1	1:B:46:G:C5'	2.44	0.65
1:B:84:A:C1'	1:B:84:A:C8	2.75	0.65
1:B:117:G:C1'	1:B:117:G:C4	2.75	0.65
1:B:143:C:OP1	1:B:1328:A:C3'	2.43	0.65
1:B:159:G:OP2	1:B:160:A:H8	1.76	0.65
1:B:187:G:H4'	1:B:216:A:H4'	1.78	0.65
1:B:188:G:C3'	1:B:191:A:H5'	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:A:P	1:B:200:U:H5	2.19	0.65
1:B:310:A:C8	1:B:311:A:N7	2.64	0.65
1:B:318:C:O2	1:B:330:A:O2'	2.13	0.65
1:B:319:G:C1'	1:B:320:A:C5'	2.75	0.65
1:B:346:A:C1'	1:B:346:A:C4	2.74	0.65
1:B:374:A:C5'	1:B:375:G:H5"	2.27	0.65
1:B:529:A:C2	1:B:972:A:C6	2.83	0.65
1:B:746:PSU:O3'	1:B:752:A:H2	1.77	0.65
1:B:829:A:C1'	1:B:829:A:C4	2.73	0.65
1:B:913:U:C5	1:B:917:A:N9	2.58	0.65
1:B:914:G:N3	1:B:916:G:H2'	2.12	0.65
1:B:1111:A:C1'	1:B:1111:A:C4	2.72	0.65
1:B:1131:G:P	1:B:2752:C:C3'	2.84	0.65
1:B:1284:A:C4'	1:B:2012:G:H1'	2.26	0.65
1:B:1311:G:C1'	1:B:1311:G:C4	2.76	0.65
1:B:1524:G:OP1	1:B:1527:G:H5'	1.96	0.65
1:B:1569:A:OP1	1:B:1573:G:H8	1.79	0.65
1:B:1571:A:C1'	1:B:1571:A:C4	2.74	0.65
1:B:1627:G:C2'	1:B:1641:A:H1'	2.27	0.65
1:B:1634:A:C1'	1:B:1634:A:C4	2.72	0.65
1:B:1675:C:C5'	1:B:1679:A:HO2'	2.09	0.65
1:B:2061:G:O6	1:B:2552:U:C5'	2.45	0.65
1:B:2375:G:C1'	1:B:2375:G:C4	2.76	0.65
1:B:2721:A:C1'	1:B:2721:A:C4	2.72	0.65
1:B:2866:U:O2	1:B:2867:G:H1'	1.96	0.65
1:B:10:A:C1'	1:B:10:A:C4	2.75	0.65
1:B:13:A:C2'	1:B:584:C:H41	2.10	0.65
1:B:15:G:O2'	1:B:1256:G:O2'	2.14	0.65
1:B:130:C:H2'	1:B:131:A:C8	2.32	0.65
1:B:140:C:H3'	1:B:141:G:C2	2.32	0.65
1:B:140:C:C2'	1:B:141:G:C1'	2.68	0.65
1:B:165:A:N7	1:B:166:U:C4	2.64	0.65
1:B:201:C:C2'	1:B:202:U:O3'	2.33	0.65
1:B:384:A:C1'	1:B:384:A:C4	2.73	0.65
1:B:457:A:C2	1:B:458:G:C2'	2.78	0.65
1:B:500:G:O2'	1:B:505:A:C2'	2.45	0.65
1:B:793:A:C1'	1:B:793:A:C8	2.75	0.65
1:B:803:U:H2'	1:B:1255:U:P	2.37	0.65
1:B:845:A:C4'	1:B:846:U:O5'	2.45	0.65
1:B:1000:A:C1'	1:B:1000:A:C4	2.73	0.65
1:B:1003:G:H21	1:B:1008:A:H2'	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1021:A:C2	1:B:1022:G:C3'	2.61	0.65
1:B:1023:U:H5	1:B:2484:G:N7	1.93	0.65
1:B:1033:U:O2'	1:B:1034:G:H3'	1.97	0.65
1:B:1129:A:C1'	1:B:1129:A:C4	2.74	0.65
1:B:1135:C:H1'	1:B:1140:C:C5	2.32	0.65
1:B:1198:U:C5'	1:B:1256:G:O2'	2.44	0.65
1:B:1232:G:P	1:B:1236:G:H2'	2.37	0.65
1:B:1283:G:C5'	1:B:2013:A:O4'	2.45	0.65
1:B:1308:A:H8	1:B:1309:G:C8	2.09	0.65
1:B:1428:C:C2'	1:B:1429:G:H5"	2.26	0.65
1:B:1449:G:H5'	1:B:1587:G:O4'	1.96	0.65
1:B:1581:G:C2'	1:B:1582:C:O5'	2.45	0.65
1:B:1626:A:O2'	1:B:1627:G:H5'	1.96	0.65
1:B:1668:A:C1'	1:B:1668:A:C4	2.74	0.65
1:B:1712:U:C2'	1:B:1713:A:H5'	2.27	0.65
1:B:1828:G:C1'	1:B:1828:G:C4	2.72	0.65
1:B:1900:A:C1'	1:B:1900:A:C4	2.73	0.65
1:B:1936:A:C1'	1:B:1936:A:C4	2.77	0.65
1:B:2019:A:H4'	1:B:2041:U:O4	1.96	0.65
1:B:2394:C:C5'	1:B:2395:C:C5'	2.31	0.65
1:B:2575:C:H5'	1:B:2576:G:H4'	1.77	0.65
1:B:2645:G:C1'	1:B:2645:G:C4	2.77	0.65
1:B:2733:A:H3'	1:B:2770:G:H22	1.62	0.65
1:B:2850:A:O3'	1:B:2871:U:C5	2.50	0.65
1:B:28:A:N3	1:B:675:A:OP1	2.30	0.65
1:B:411:G:C1'	1:B:411:G:C4	2.73	0.65
1:B:411:G:H21	1:B:412:A:H3'	1.58	0.65
1:B:527:C:H5	1:B:1189:A:C2'	2.10	0.65
1:B:918:A:C1'	1:B:918:A:C4	2.72	0.65
1:B:1133:A:H1'	1:B:1142:A:N1	2.11	0.65
1:B:1149:G:N2	1:B:1150:C:H1'	2.12	0.65
1:B:1154:G:C1'	1:B:1154:G:C4	2.77	0.65
1:B:1419:A:C1'	1:B:1573:G:C8	2.80	0.65
1:B:1551:A:C8	1:B:1552:A:O2'	2.50	0.65
1:B:1560:G:C2'	1:B:1561:C:OP1	2.43	0.65
1:B:1672:A:H62	1:B:1673:G:H21	1.45	0.65
1:B:1674:G:H1'	1:B:1680:U:OP1	1.94	0.65
1:B:1791:A:N9	1:B:1942:C:H4'	2.08	0.65
1:B:1803:A:C1'	1:B:1803:A:C8	2.75	0.65
1:B:1849:G:C8	1:B:1889:A:H2	2.13	0.65
1:B:1929:G:OP2	1:B:1932:A:C5'	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1969:A:C1'	1:B:1969:A:C4	2.75	0.65
1:B:2007:U:P	1:B:2846:G:O6	2.55	0.65
1:B:2060:A:C2'	1:B:2557:G:N2	2.59	0.65
1:B:2309:A:H5'	1:B:2310:C:H5	1.62	0.65
1:B:2563:U:H2'	1:B:2565:A:O5'	1.95	0.65
1:B:2870:C:O2'	1:B:2872:A:H4'	1.95	0.65
1:B:19:A:H5'	1:B:667:U:P	2.35	0.65
1:B:61:C:O2	1:B:88:G:P	2.55	0.65
1:B:77:G:C3'	1:B:99:U:H1'	2.22	0.65
1:B:221:A:C1'	1:B:222:A:C2'	2.74	0.65
1:B:221:A:O3'	1:B:277:G:O2'	2.14	0.65
1:B:311:A:O5'	1:B:483:A:N6	2.28	0.65
1:B:443:A:O2'	1:B:444:C:C5	2.43	0.65
1:B:505:A:C1'	1:B:505:A:C4	2.74	0.65
1:B:644:A:C1'	1:B:644:A:C4	2.73	0.65
1:B:846:U:H2'	1:B:846:U:O2	1.96	0.65
1:B:1040:A:H2'	1:B:1041:G:N7	2.12	0.65
1:B:1129:A:C8	1:B:2752:C:C2	2.83	0.65
1:B:1130:U:H5	1:B:2749:A:H1'	1.49	0.65
1:B:1281:G:H3'	1:B:1282:U:H5'	1.77	0.65
1:B:1365:A:C1'	1:B:1365:A:C8	2.76	0.65
1:B:1416:G:C1'	1:B:1416:G:C4	2.75	0.65
1:B:1425:G:N2	1:B:1566:A:OP2	2.30	0.65
1:B:1544:A:C1'	1:B:1544:A:C4	2.76	0.65
1:B:1655:A:C1'	1:B:1655:A:C4	2.75	0.65
1:B:1699:G:C1'	1:B:1699:G:C4	2.76	0.65
1:B:1928:A:C5'	1:B:1937:A:O5'	2.43	0.65
1:B:1932:A:P	1:B:1935:G:H4'	2.37	0.65
1:B:1936:A:H2'	1:B:1938:A:H8	1.61	0.65
1:B:1950:G:C2'	1:B:1951:U:O5'	2.45	0.65
1:B:1953:A:O3'	1:B:1955:U:H2'	1.97	0.65
1:B:2126:A:C1'	1:B:2126:A:C8	2.76	0.65
1:B:2172:U:C2'	1:B:2173:A:C5'	2.75	0.65
1:B:2271:G:C1'	1:B:2271:G:C4	2.76	0.65
1:B:2287:A:C1'	1:B:2287:A:C4	2.74	0.65
1:B:2345:G:C1'	1:B:2345:G:C4	2.75	0.65
1:B:2375:G:O5'	1:B:2413:G:O3'	2.15	0.65
1:B:2376:A:N1	1:B:2393:U:O2	2.30	0.65
1:B:2377:A:C1'	1:B:2377:A:C4	2.74	0.65
1:B:2444:G:O2'	1:B:2555:U:C4	2.47	0.65
1:B:2450:A:H5"	1:B:2561:U:P	2.37	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2682:A:C5'	1:B:2683:C:C5	2.75	0.65
1:B:2741:A:H2'	1:B:2742:G:O5'	1.95	0.65
1:B:118:A:O3'	1:B:118:A:C2'	2.45	0.65
1:B:215:G:H5'	1:B:217:A:P	2.37	0.65
1:B:216:A:H5"	1:B:218:A:N3	2.12	0.65
1:B:221:A:C5'	1:B:277:G:C2'	2.73	0.65
1:B:481:G:C1'	1:B:481:G:C4	2.77	0.65
1:B:632:A:C1'	1:B:632:A:C4	2.73	0.65
1:B:802:A:C3'	1:B:1254:A:P	2.85	0.65
1:B:803:U:C2'	1:B:1255:U:C5'	2.74	0.65
1:B:803:U:C2'	1:B:1255:U:H5'	2.27	0.65
1:B:861:A:C5'	1:B:862:G:P	2.84	0.65
1:B:933:A:C8	1:B:935:C:OP2	2.50	0.65
1:B:1130:U:C3'	1:B:2752:C:H4'	2.27	0.65
1:B:1135:C:H6	1:B:1140:C:C4'	2.09	0.65
1:B:1347:A:H5'	1:B:1348:C:O5'	1.95	0.65
1:B:1383:A:C1'	1:B:1383:A:C4	2.73	0.65
1:B:1522:A:C4	1:B:1528:A:O2'	2.50	0.65
1:B:1528:A:C3'	1:B:1529:G:OP1	2.45	0.65
1:B:1702:G:H5"	1:B:1989:G:C8	2.32	0.65
1:B:1745:A:C1'	1:B:1745:A:C8	2.76	0.65
1:B:1857:G:P	1:B:1886:U:O2	2.55	0.65
1:B:1882:U:C6	1:B:1884:G:OP1	2.50	0.65
1:B:1933:G:H2'	1:B:1939:5MU:C5'	2.26	0.65
1:B:2282:G:C1'	1:B:2282:G:C4	2.76	0.65
1:B:2364:C:H2'	1:B:2366:A:HO2'	1.61	0.65
1:B:2384:U:O3'	1:B:2385:C:OP1	2.14	0.65
1:B:2542:A:C1'	1:B:2542:A:C4	2.73	0.65
1:B:2565:A:C1'	1:B:2565:A:C4	2.74	0.65
1:B:2819:G:OP2	1:B:2820:A:N7	2.30	0.65
1:B:2860:A:C1'	1:B:2860:A:C8	2.76	0.65
1:B:500:G:C5'	1:B:502:A:O3'	2.45	0.65
1:B:535:G:C3'	1:B:950:G:O2'	2.44	0.65
1:B:675:A:C1'	1:B:1249:U:H2'	2.19	0.65
1:B:685:A:C1'	1:B:685:A:C4	2.72	0.65
1:B:734:A:C1'	1:B:734:A:C4	2.73	0.65
1:B:805:G:C2	1:B:1251:C:O3'	2.50	0.65
1:B:861:A:H3'	1:B:862:G:OP1	1.96	0.65
1:B:1130:U:C5	1:B:2755:C:OP2	2.50	0.65
1:B:1187:G:C1'	1:B:1187:G:C4	2.76	0.65
1:B:1272:A:C2'	1:B:1273:U:C5'	2.75	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1305:C:H5'	1:B:1646:C:N4	2.11	0.65
1:B:1341:G:C1'	1:B:1341:G:C4	2.76	0.65
1:B:1434:A:C1'	1:B:1434:A:C4	2.73	0.65
1:B:1569:A:N6	1:B:1571:A:H4'	2.11	0.65
1:B:1664:A:H5'	1:B:1758:U:OP1	1.96	0.65
1:B:1672:A:N9	1:B:1673:G:O2'	2.30	0.65
1:B:1674:G:C1'	1:B:1679:A:O3'	2.45	0.65
1:B:1677:A:H5"	1:B:1684:G:OP1	1.97	0.65
1:B:1801:A:C4	1:B:1816:C:O2'	2.39	0.65
1:B:1854:A:OP2	1:B:1887:C:O5'	2.14	0.65
1:B:1856:U:O3'	1:B:1886:U:N1	2.26	0.65
1:B:1932:A:C8	1:B:1937:A:C5'	2.79	0.65
1:B:1933:G:C2'	1:B:1939:5MU:OP1	2.39	0.65
1:B:2014:A:C1'	1:B:2014:A:C4	2.73	0.65
1:B:2033:A:C1'	1:B:2033:A:C4	2.73	0.65
1:B:2115:G:N1	1:B:2174:C:N4	2.44	0.65
1:B:2133:G:C1'	1:B:2133:G:C4	2.75	0.65
1:B:2749:A:C1'	1:B:2749:A:C4	2.74	0.65
1:B:167:A:HO2'	1:B:168:G:C3'	2.10	0.64
1:B:316:C:C5'	1:B:317:G:OP2	2.44	0.64
1:B:330:A:C1'	1:B:334:C:H1'	2.27	0.64
1:B:501:A:OP1	1:B:502:A:P	2.55	0.64
1:B:514:A:C1'	1:B:514:A:C4	2.75	0.64
1:B:612:G:C1'	1:B:612:G:C4	2.76	0.64
1:B:805:G:N2	1:B:1251:C:H5'	2.12	0.64
1:B:828:U:C5	1:B:830:G:O6	2.50	0.64
1:B:850:U:H2'	1:B:851:C:C1'	2.27	0.64
1:B:1006:C:H4'	1:B:1007:C:C5'	2.25	0.64
1:B:1022:G:C2	1:B:2482:A:C8	2.85	0.64
1:B:1271:G:C1'	1:B:1271:G:C4	2.75	0.64
1:B:1287:A:C2	1:B:1648:U:C2	2.85	0.64
1:B:1371:G:H21	1:B:1372:U:C5'	2.09	0.64
1:B:1371:G:C2	1:B:1372:U:H5"	2.31	0.64
1:B:1392:A:N7	1:B:1394:U:C1'	2.58	0.64
1:B:1477:A:C5	1:B:1478:G:H5"	2.31	0.64
1:B:1757:A:C1'	1:B:1757:A:C8	2.76	0.64
1:B:1780:A:C1'	1:B:1780:A:C4	2.73	0.64
1:B:1783:A:C1'	1:B:1783:A:C8	2.75	0.64
1:B:1854:A:H4'	1:B:1888:G:C8	2.32	0.64
1:B:1866:A:C4'	1:B:1866:A:OP2	2.45	0.64
1:B:1932:A:C5	1:B:1937:A:H5'	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2086:U:C2'	1:B:2087:G:C8	2.80	0.64
1:B:2488:G:C5'	1:B:2575:C:N4	2.39	0.64
1:B:2820:A:O2'	1:B:2821:A:H3'	1.97	0.64
1:B:2846:G:P	1:B:2848:G:C4	2.90	0.64
1:B:2851:A:H1'	1:B:2868:A:N6	2.12	0.64
1:B:12:U:OP2	1:B:585:G:C2'	2.45	0.64
1:B:32:C:H5	1:B:33:C:C5	2.12	0.64
1:B:51:G:C5'	1:B:151:C:H1'	2.27	0.64
1:B:71:A:OP2	1:B:72:U:C4	2.51	0.64
1:B:93:G:H8	1:B:498:G:HO3'	1.43	0.64
1:B:98:G:H2'	1:B:102:U:H6	0.59	0.64
1:B:178:G:C1'	1:B:178:G:C4	2.76	0.64
1:B:215:G:C3'	1:B:256:A:H3'	2.26	0.64
1:B:223:A:C8	1:B:279:A:C5'	2.51	0.64
1:B:362:A:O5'	1:B:428:A:C5'	2.36	0.64
1:B:391:A:C1'	1:B:391:A:C8	2.75	0.64
1:B:411:G:H3'	1:B:2406:A:C8	2.32	0.64
1:B:480:A:C1'	1:B:480:A:C4	2.73	0.64
1:B:501:A:O3'	1:B:501:A:OP1	2.14	0.64
1:B:668:A:HO3'	1:B:669:G:P	2.20	0.64
1:B:739:A:N6	1:B:762:U:C5	2.66	0.64
1:B:745:7MG:O3'	1:B:748:G:C2'	2.45	0.64
1:B:913:U:C5	1:B:917:A:N7	2.65	0.64
1:B:1203:U:O2	1:B:1241:A:C5'	2.44	0.64
1:B:1322:A:C1'	1:B:1322:A:C4	2.74	0.64
1:B:1427:A:H2'	1:B:1430:C:H5'	1.79	0.64
1:B:1470:A:H2'	1:B:1471:G:OP1	1.96	0.64
1:B:1571:A:H2'	1:B:1572:A:OP1	1.97	0.64
1:B:1597:A:P	1:B:1598:A:H4'	2.37	0.64
1:B:1885:A:C1'	1:B:1885:A:C4	2.74	0.64
1:B:1965:C:H4'	1:B:1966:A:O5'	1.97	0.64
1:B:1989:G:C1'	1:B:1989:G:C4	2.77	0.64
1:B:2266:A:C1'	1:B:2266:A:C8	2.76	0.64
1:B:2330:G:H2'	1:B:2331:G:H5'	1.79	0.64
1:B:2411:A:C1'	1:B:2411:A:C4	2.73	0.64
1:B:2451:A:C5'	1:B:2562:U:OP1	2.45	0.64
1:B:29:U:OP2	1:B:1250:G:C2	2.50	0.64
1:B:215:G:O5'	1:B:219:A:P	2.54	0.64
1:B:262:A:O4'	1:B:429:A:O5'	2.15	0.64
1:B:547:A:C1'	1:B:547:A:C4	2.72	0.64
1:B:570:G:C8	1:B:572:A:N3	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:C4	1:B:2039:U:OP1	2.49	0.64
1:B:645:C:O2	1:B:647:G:H1'	1.97	0.64
1:B:745:7MG:C3'	1:B:748:G:O2'	2.46	0.64
1:B:776:G:C1'	1:B:776:G:C4	2.75	0.64
1:B:784:G:C1'	1:B:784:G:C4	2.76	0.64
1:B:842:U:OP2	1:B:932:U:O4	2.14	0.64
1:B:845:A:C4'	1:B:846:U:P	2.83	0.64
1:B:933:A:C1'	1:B:933:A:C4	2.74	0.64
1:B:1048:A:C5'	1:B:1102:C:O3'	2.46	0.64
1:B:1222:U:H5"	1:B:1223:G:OP2	1.97	0.64
1:B:1347:A:O2'	1:B:1716:U:H5"	1.97	0.64
1:B:1459:G:C4	1:B:1461:C:H5	2.14	0.64
1:B:1469:A:OP2	1:B:1523:U:H5'	1.97	0.64
1:B:1552:A:C1'	1:B:1552:A:C8	2.75	0.64
1:B:1566:A:C1'	1:B:1566:A:C8	2.74	0.64
1:B:1694:C:O2	1:B:1694:C:H2'	1.96	0.64
1:B:1790:C:OP1	1:B:1790:C:H4'	1.97	0.64
1:B:1855:U:O3'	1:B:1886:U:H5"	1.97	0.64
1:B:1928:A:H4'	1:B:1938:A:C5'	2.23	0.64
1:B:2042:A:C1'	1:B:2042:A:C4	2.73	0.64
1:B:2156:G:C1'	1:B:2156:G:C4	2.74	0.64
1:B:2169:A:C1'	1:B:2169:A:C4	2.73	0.64
1:B:2389:G:C1'	1:B:2389:G:C4	2.77	0.64
1:B:2534:A:C1'	1:B:2534:A:C8	2.76	0.64
1:B:2563:U:O2'	1:B:2564:A:C5'	2.45	0.64
1:B:2598:A:C1'	1:B:2598:A:C8	2.76	0.64
1:B:2713:U:H4'	1:B:2714:G:OP1	1.96	0.64
1:B:2869:G:C8	1:B:2873:A:C4'	2.75	0.64
1:B:10:A:H4'	1:B:525:U:H4'	1.79	0.64
1:B:48:G:C1'	1:B:48:G:C4	2.75	0.64
1:B:51:G:C4'	1:B:151:C:H1'	2.28	0.64
1:B:71:A:H62	1:B:106:C:H41	1.44	0.64
1:B:92:U:O3'	1:B:499:U:OP2	2.16	0.64
1:B:112:U:H2'	1:B:112:U:O2	1.98	0.64
1:B:220:G:O2'	1:B:278:A:OP2	2.16	0.64
1:B:255:A:C1'	1:B:255:A:C4	2.76	0.64
1:B:329:G:N2	1:B:336:C:N4	2.45	0.64
1:B:330:A:O3'	1:B:330:A:C2'	2.45	0.64
1:B:330:A:H4'	1:B:331:C:OP1	1.97	0.64
1:B:340:A:C1'	1:B:340:A:C4	2.73	0.64
1:B:362:A:C4'	1:B:428:A:C5'	2.74	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:G:N7	1:B:479:A:O5'	2.30	0.64
1:B:530:G:C1'	1:B:530:G:C4	2.77	0.64
1:B:861:A:C2	1:B:862:G:O6	2.50	0.64
1:B:983:A:C1'	1:B:983:A:C8	2.75	0.64
1:B:1051:G:H2'	1:B:1052:C:C6	2.33	0.64
1:B:1262:A:N6	1:B:2015:A:C8	2.65	0.64
1:B:1289:C:H5'	1:B:1649:G:OP1	1.98	0.64
1:B:1418:G:N7	1:B:1632:A:N7	2.46	0.64
1:B:1426:G:O5'	1:B:1567:G:C3'	2.43	0.64
1:B:1453:A:OP1	1:B:1453:A:C8	2.50	0.64
1:B:1546:G:C2'	1:B:1547:C:O4'	2.42	0.64
1:B:1568:G:H4'	1:B:1570:A:N7	2.10	0.64
1:B:1625:C:O2'	1:B:1643:G:H4'	1.97	0.64
1:B:1640:A:C1'	1:B:1640:A:C4	2.73	0.64
1:B:1680:U:OP2	1:B:1700:A:H3'	1.97	0.64
1:B:1739:A:C1'	1:B:1739:A:C8	2.75	0.64
1:B:1814:G:HO2'	1:B:1815:A:H3'	1.62	0.64
1:B:1848:A:OP2	1:B:2089:C:O2	2.15	0.64
1:B:1866:A:C1'	1:B:1866:A:C8	2.75	0.64
1:B:1941:C:H4'	1:B:1972:G:O4'	1.98	0.64
1:B:2110:G:OP1	1:B:2113:U:O4	2.15	0.64
1:B:2133:G:N1	1:B:2157:G:H4'	2.12	0.64
1:B:2268:A:C1'	1:B:2268:A:C4	2.73	0.64
1:B:2298:A:C1'	1:B:2298:A:C4	2.74	0.64
1:B:2344:U:O3'	1:B:2381:A:N6	2.30	0.64
1:B:2497:A:C3'	1:B:2657:A:C2	2.81	0.64
1:B:2556:C:C3'	1:B:2557:G:O3'	2.44	0.64
1:B:2595:G:C1'	1:B:2595:G:C4	2.77	0.64
1:B:2688:G:C1'	1:B:2688:G:C4	2.76	0.64
1:B:2731:G:H2'	1:B:2732:G:OP2	1.97	0.64
1:B:2808:G:P	1:B:2890:G:H22	2.20	0.64
1:B:78:U:H5"	1:B:126:A:C8	2.33	0.64
1:B:100:U:H5'	1:B:119:A:O3'	1.97	0.64
1:B:142:A:C4'	1:B:1330:C:O2	2.45	0.64
1:B:197:A:P	1:B:198:C:H5	2.20	0.64
1:B:529:A:C5	1:B:947:A:O2'	2.46	0.64
1:B:577:G:H1'	1:B:2019:A:C8	2.33	0.64
1:B:802:A:C5'	1:B:1254:A:P	2.86	0.64
1:B:1001:A:C1'	1:B:1001:A:C4	2.73	0.64
1:B:1025:G:C1'	1:B:1025:G:C4	2.73	0.64
1:B:1061:U:H4'	1:B:1071:G:OP2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1288:G:C3'	1:B:1289:C:OP2	2.45	0.64
1:B:1545:A:C1'	1:B:1545:A:C4	2.72	0.64
1:B:1582:C:N4	1:B:1632:A:N9	2.45	0.64
1:B:1759:A:C1'	1:B:1759:A:C8	2.74	0.64
1:B:1905:C:H4'	1:B:1927:A:H5'	1.78	0.64
1:B:1930:G:C1'	1:B:1930:G:C4	2.73	0.64
1:B:1944:U:O2'	1:B:1945:G:H4'	1.96	0.64
1:B:1977:A:C1'	1:B:1977:A:C4	2.74	0.64
1:B:1981:A:C2'	1:B:1982:U:C6	2.78	0.64
1:B:2061:G:O3'	1:B:2061:G:C4'	2.44	0.64
1:B:2061:G:N2	1:B:2553:G:C5'	2.61	0.64
1:B:2086:U:O3'	1:B:2086:U:P	2.55	0.64
1:B:2167:U:OP1	1:B:2169:A:N7	2.29	0.64
1:B:2274:A:C1'	1:B:2274:A:C8	2.75	0.64
1:B:2366:A:C1'	1:B:2366:A:C8	2.75	0.64
1:B:2528:U:OP2	1:B:2529:G:H8	1.80	0.64
1:B:2571:U:H5'	1:B:2647:U:O2'	1.98	0.64
1:B:2688:G:OP1	1:B:2724:U:C4'	2.46	0.64
1:B:2705:A:N7	1:B:2706:A:N7	2.45	0.64
1:B:2719:G:C1'	1:B:2719:G:C4	2.77	0.64
1:B:2753:A:C1'	1:B:2753:A:C4	2.72	0.64
1:B:2851:A:H1'	1:B:2868:A:H62	1.63	0.64
1:B:71:A:C8	1:B:106:C:OP2	2.50	0.64
1:B:99:U:O4	1:B:121:G:OP1	2.14	0.64
1:B:103:A:C5'	1:B:103:A:O4'	2.44	0.64
1:B:180:G:C1'	1:B:180:G:C4	2.76	0.64
1:B:243:U:C6	1:B:256:A:N6	2.66	0.64
1:B:250:G:C1'	1:B:250:G:C4	2.76	0.64
1:B:316:C:C5'	1:B:317:G:P	2.86	0.64
1:B:329:G:O2'	1:B:335:C:C4	2.51	0.64
1:B:432:A:C1'	1:B:432:A:C4	2.75	0.64
1:B:529:A:H4'	1:B:530:G:C8	2.32	0.64
1:B:803:U:C3'	1:B:1254:A:O3'	2.45	0.64
1:B:805:G:N2	1:B:1251:C:C3'	2.47	0.64
1:B:982:C:N4	1:B:983:A:N6	2.44	0.64
1:B:1004:U:O3'	1:B:1005:C:P	2.55	0.64
1:B:1050:A:C1'	1:B:1050:A:C8	2.76	0.64
1:B:1205:A:C2'	1:B:1206:G:C8	2.76	0.64
1:B:1275:A:C1'	1:B:1275:A:C8	2.76	0.64
1:B:1283:G:H4'	1:B:2013:A:C5'	2.27	0.64
1:B:1346:G:O2'	1:B:1348:C:C4'	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1354:A:N6	1:B:1377:G:H21	1.94	0.64
1:B:1490:A:C1'	1:B:1490:A:C8	2.75	0.64
1:B:1524:G:OP1	1:B:1527:G:H5"	1.98	0.64
1:B:1579:A:C1'	1:B:1579:A:C8	2.75	0.64
1:B:1630:A:H5"	1:B:1631:G:P	2.35	0.64
1:B:1641:A:C1'	1:B:1641:A:C4	2.75	0.64
1:B:1751:U:P	1:B:1752:C:H5'	2.37	0.64
1:B:1753:G:O5'	1:B:1988:G:O2'	2.15	0.64
1:B:1814:G:C1'	1:B:1814:G:C4	2.77	0.64
1:B:1848:A:C5'	1:B:1848:A:O4'	2.45	0.64
1:B:1899:A:C3'	1:B:1900:A:O4'	2.44	0.64
1:B:1926:U:O2'	1:B:1927:A:O5'	2.14	0.64
1:B:1929:G:N2	1:B:1930:G:H22	1.95	0.64
1:B:2134:A:C1'	1:B:2134:A:C4	2.75	0.64
1:B:2275:C:H5"	1:B:2427:C:OP2	1.97	0.64
1:B:2327:A:C1'	1:B:2327:A:C4	2.73	0.64
1:B:2653:U:C1'	1:B:2653:U:C2	2.77	0.64
1:B:2798:U:H5"	1:B:2799:A:OP2	1.98	0.64
1:B:2885:G:C1'	1:B:2885:G:C4	2.75	0.64
1:B:2902:C:H5	1:B:2903:U:HO2'	0.68	0.64
1:B:15:G:C5'	1:B:1197:G:C4	2.67	0.64
1:B:73:A:H5"	1:B:113:U:O4'	1.98	0.64
1:B:82:U:HO2'	1:B:84:A:C1'	2.08	0.64
1:B:124:G:C1'	1:B:124:G:C4	2.75	0.64
1:B:165:A:C1'	1:B:165:A:C8	2.76	0.64
1:B:366:C:H5"	1:B:367:G:H5"	1.80	0.64
1:B:511:U:H2'	1:B:511:U:O2	1.97	0.64
1:B:555:G:C1'	1:B:555:G:C4	2.76	0.64
1:B:673:C:OP2	1:B:1248:G:H2'	1.97	0.64
1:B:788:A:C1'	1:B:788:A:C4	2.73	0.64
1:B:802:A:O3'	1:B:1254:A:C5'	2.46	0.64
1:B:803:U:OP2	1:B:1254:A:C8	2.51	0.64
1:B:927:A:OP1	1:B:928:A:OP1	2.14	0.64
1:B:930:G:OP2	1:B:931:U:H3'	1.98	0.64
1:B:945:A:C1'	1:B:945:A:C8	2.75	0.64
1:B:959:A:H2'	1:B:960:A:C5'	2.27	0.64
1:B:961:C:H5'	1:B:962:G:C8	2.31	0.64
1:B:1024:G:C4'	1:B:2467:C:H5'	2.28	0.64
1:B:1046:A:C1'	1:B:1046:A:C4	2.73	0.64
1:B:1129:A:H8	1:B:2752:C:C1'	2.11	0.64
1:B:1265:A:C1'	1:B:1265:A:C4	2.73	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1284:A:C1'	1:B:1284:A:C4	2.74	0.64
1:B:1348:C:N4	1:B:1601:G:N2	2.45	0.64
1:B:1456:G:C1'	1:B:1456:G:C4	2.76	0.64
1:B:1463:C:OP2	1:B:1545:A:O3'	2.15	0.64
1:B:1784:A:C1'	1:B:1784:A:C8	2.76	0.64
1:B:1852:U:C6	1:B:1885:A:C8	2.86	0.64
1:B:1872:A:H5"	1:B:1873:G:OP2	1.97	0.64
1:B:2493:U:H5"	1:B:2494:G:P	2.38	0.64
1:B:2848:G:H5'	1:B:2870:C:P	2.38	0.64
1:B:11:C:OP1	1:B:11:C:O2	2.15	0.64
1:B:60:G:O3'	1:B:61:C:H5'	1.96	0.64
1:B:86:G:OP2	1:B:88:G:C6	2.51	0.64
1:B:99:U:O2	1:B:102:U:C5'	2.46	0.64
1:B:199:A:C1'	1:B:199:A:C8	2.75	0.64
1:B:226:A:C1'	1:B:226:A:C8	2.77	0.64
1:B:254:G:C1'	1:B:254:G:C4	2.74	0.64
1:B:443:A:C1'	1:B:444:C:C5	2.81	0.64
1:B:449:A:O5'	1:B:478:A:C5'	2.45	0.64
1:B:512:G:C1'	1:B:512:G:C4	2.76	0.64
1:B:512:G:N2	1:B:515:A:OP1	2.19	0.64
1:B:670:A:H4'	1:B:671:C:C5'	2.28	0.64
1:B:775:G:H5"	1:B:776:G:P	2.38	0.64
1:B:804:A:C1'	1:B:804:A:C8	2.76	0.64
1:B:866:A:H2'	1:B:915:C:N1	2.12	0.64
1:B:900:A:C2'	1:B:901:C:C5	2.81	0.64
1:B:1040:A:N1	1:B:1045:C:O2	2.31	0.64
1:B:1049:C:C5	1:B:1050:A:H2'	2.33	0.64
1:B:1050:A:C3'	1:B:1051:G:P	2.84	0.64
1:B:1235:G:C1'	1:B:1235:G:C4	2.75	0.64
1:B:1297:C:OP1	1:B:1314:C:O2'	2.15	0.64
1:B:1525:A:C1'	1:B:1525:A:C4	2.74	0.64
1:B:1569:A:OP1	1:B:1573:G:O4'	2.16	0.64
1:B:1615:C:O2	1:B:1616:A:H8	1.80	0.64
1:B:1652:A:C1'	1:B:1652:A:C4	2.75	0.64
1:B:1672:A:C2	1:B:1673:G:H3'	2.32	0.64
1:B:1687:G:C1'	1:B:1687:G:C4	2.76	0.64
1:B:1695:G:H3'	1:B:2703:C:N4	1.99	0.64
1:B:2055:C:O3'	1:B:2055:C:H3'	1.90	0.64
1:B:2265:U:O2	1:B:2267:A:O3'	2.16	0.64
1:B:2366:A:C1'	1:B:2366:A:C4	2.72	0.64
1:B:2467:C:H2'	1:B:2467:C:O2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2556:C:H3'	1:B:2557:G:C5'	2.25	0.64
1:B:2778:A:C1'	1:B:2778:A:C8	2.77	0.64
1:B:2809:A:N7	1:B:2884:U:H1'	2.12	0.64
1:B:2820:A:O3'	1:B:2820:A:C4'	2.44	0.64
1:B:2902:C:N4	1:B:2904:U:OP2	2.31	0.64
1:B:13:A:O2'	1:B:584:C:C4	2.51	0.64
1:B:14:A:C1'	1:B:14:A:C8	2.75	0.64
1:B:189:G:C1'	1:B:189:G:C4	2.75	0.64
1:B:320:A:C2'	1:B:324:A:HO3'	2.10	0.64
1:B:499:U:O2	1:B:499:U:H2'	1.98	0.64
1:B:514:A:H5"	1:B:669:G:O2'	1.96	0.64
1:B:526:A:OP1	1:B:812:C:C5	2.51	0.64
1:B:532:A:C1'	1:B:532:A:C4	2.72	0.64
1:B:538:A:C3'	1:B:969:G:OP1	2.44	0.64
1:B:646:U:H5"	1:B:647:G:C5'	2.27	0.64
1:B:669:G:H2'	1:B:670:A:OP2	1.97	0.64
1:B:676:A:P	1:B:1250:G:H8	2.21	0.64
1:B:684:G:H4'	1:B:776:G:O5'	1.97	0.64
1:B:733:G:C1'	1:B:733:G:C4	2.77	0.64
1:B:845:A:N7	1:B:848:C:N4	2.46	0.64
1:B:981:A:C1'	1:B:981:A:C4	2.73	0.64
1:B:1029:A:C1'	1:B:1029:A:C8	2.75	0.64
1:B:1348:C:H42	1:B:1601:G:H21	1.42	0.64
1:B:1451:C:P	1:B:1526:C:O2	2.56	0.64
1:B:1569:A:N7	1:B:1570:A:O3'	2.31	0.64
1:B:1584:U:H1'	1:B:1635:A:O5'	1.97	0.64
1:B:1696:G:HO2'	1:B:2702:G:C2'	2.09	0.64
1:B:1936:A:O4'	1:B:1939:5MU:OP2	2.14	0.64
1:B:1950:G:O2'	1:B:1951:U:O5'	2.15	0.64
1:B:1981:A:C1'	1:B:1981:A:C8	2.76	0.64
1:B:2450:A:C1'	1:B:2450:A:C4	2.73	0.64
1:B:2497:A:O2'	1:B:2665:A:O4'	2.16	0.64
1:B:2497:A:O5'	1:B:2658:C:O2	2.16	0.64
1:B:2598:A:C2'	1:B:2599:G:C5'	2.76	0.64
1:B:2682:A:C2'	1:B:2720:U:O2'	2.45	0.64
1:B:2809:A:N3	1:B:2810:A:C1'	2.61	0.64
1:B:2846:G:OP2	1:B:2871:U:O2'	2.14	0.64
1:B:2846:G:C3'	1:B:2846:G:H5'	2.27	0.64
1:B:93:G:O4'	1:B:504:A:OP1	2.15	0.64
1:B:112:U:C4'	1:B:112:U:H5"	2.19	0.64
1:B:216:A:OP2	1:B:256:A:N6	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:259:G:H5”	1:B:279:A:H2	1.61	0.64
1:B:262:A:H3’	1:B:430:A:H5’	1.75	0.64
1:B:269:C:O2	1:B:270:A:O5’	2.16	0.64
1:B:334:C:H4’	1:B:335:C:P	2.38	0.64
1:B:450:G:C1’	1:B:450:G:C8	2.76	0.64
1:B:451:U:C1’	1:B:460:A:O5’	2.45	0.64
1:B:477:A:N3	1:B:478:A:P	2.71	0.64
1:B:602:A:HO5’	1:B:604:G:C1’	2.10	0.64
1:B:672:C:P	1:B:673:C:H5	2.21	0.64
1:B:1024:G:C2’	1:B:2470:G:C8	2.75	0.64
1:B:1129:A:H8	1:B:2752:C:N1	1.96	0.64
1:B:1264:A:C3’	1:B:1265:A:H5’	2.28	0.64
1:B:1321:A:C1’	1:B:1321:A:C4	2.73	0.64
1:B:1520:U:C3’	1:B:1536:C:H5’	2.28	0.64
1:B:1722:A:H1’	1:B:1740:G:N7	2.13	0.64
1:B:1740:G:H2’	1:B:1741:C:H6	1.62	0.64
1:B:1847:A:C5	1:B:2232:C:H4’	2.33	0.64
1:B:1933:G:N7	1:B:1936:A:H8	1.91	0.64
1:B:1944:U:C2’	1:B:1945:G:H5’	1.87	0.64
1:B:2015:A:H2’	1:B:2018:G:H1	1.63	0.64
1:B:2117:A:C6	1:B:2171:A:O2’	2.51	0.64
1:B:2432:A:C1’	1:B:2432:A:C8	2.76	0.64
1:B:13:A:H1’	1:B:584:C:C5	2.32	0.63
1:B:82:U:H2’	1:B:84:A:C4	2.34	0.63
1:B:228:C:H41	1:B:432:A:H2’	1.63	0.63
1:B:576:U:C3’	1:B:2019:A:H5’	2.24	0.63
1:B:735:A:C5’	1:B:736:C:O4’	2.46	0.63
1:B:788:A:C1’	1:B:788:A:C8	2.76	0.63
1:B:818:G:C1’	1:B:818:G:C4	2.77	0.63
1:B:821:A:O4’	1:B:2628:C:C5	2.50	0.63
1:B:836:G:C1’	1:B:836:G:C4	2.76	0.63
1:B:920:A:C8	1:B:920:A:OP1	2.51	0.63
1:B:926:G:C4’	1:B:927:A:C5’	2.76	0.63
1:B:1024:G:H5”	1:B:2468:A:O5’	1.97	0.63
1:B:1127:A:C1’	1:B:1127:A:C8	2.75	0.63
1:B:1351:C:H5”	1:B:1352:U:O5’	1.97	0.63
1:B:1417:C:H1’	1:B:1466:U:C4’	2.27	0.63
1:B:1425:G:HO2’	1:B:1567:G:H5’	1.61	0.63
1:B:1465:G:C5’	1:B:1466:U:H5’	2.28	0.63
1:B:1585:C:H5’	1:B:1586:A:H5’	1.75	0.63
1:B:1605:C:H1’	1:B:1663:G:O3’	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1632:A:C2	1:B:1633:G:C6	2.86	0.63
1:B:1696:G:O5'	1:B:2703:C:C5	2.51	0.63
1:B:1722:A:H1'	1:B:1740:G:C5	2.33	0.63
1:B:1740:G:C1'	1:B:1740:G:C4	2.77	0.63
1:B:1791:A:H3'	1:B:1942:C:H6	1.60	0.63
1:B:1847:A:O4'	1:B:1849:G:OP2	2.15	0.63
1:B:1855:U:C1'	1:B:1884:G:N3	2.50	0.63
1:B:1855:U:O3'	1:B:1886:U:H5'	1.97	0.63
1:B:1866:A:C1'	1:B:1866:A:C4	2.72	0.63
1:B:1928:A:H5'	1:B:1938:A:O5'	1.97	0.63
1:B:1933:G:O4'	1:B:2063:C:OP1	2.15	0.63
1:B:1940:U:O4	1:B:2553:G:H5'	1.97	0.63
1:B:1961:C:O2'	1:B:1962:C:P	2.56	0.63
1:B:2060:A:C5	1:B:2448:A:C1'	2.74	0.63
1:B:2320:U:H2'	1:B:2320:U:O2	1.98	0.63
1:B:2394:C:O3'	1:B:2394:C:C4'	2.46	0.63
1:B:2455:G:C8	1:B:2666:C:C5'	2.81	0.63
1:B:2587:A:C1'	1:B:2587:A:C8	2.74	0.63
1:B:2652:C:O3'	1:B:2653:U:P	2.55	0.63
1:B:2780:G:C1'	1:B:2780:G:C4	2.76	0.63
1:B:2821:A:C1'	1:B:2821:A:C8	2.75	0.63
1:B:2871:U:P	1:B:2872:A:O4'	2.56	0.63
1:B:28:A:C8	1:B:1252:G:H1'	2.33	0.63
1:B:45:G:C5'	1:B:46:G:C5'	2.76	0.63
1:B:98:G:O3'	1:B:102:U:C2'	2.44	0.63
1:B:241:A:C1'	1:B:241:A:C4	2.74	0.63
1:B:256:A:C1'	1:B:256:A:C4	2.76	0.63
1:B:446:G:H4'	1:B:471:A:H3'	1.80	0.63
1:B:448:U:C2	1:B:478:A:N7	2.66	0.63
1:B:556:A:C1'	1:B:556:A:C4	2.74	0.63
1:B:616:A:C1'	1:B:616:A:C8	2.75	0.63
1:B:728:G:C1'	1:B:728:G:C4	2.75	0.63
1:B:959:A:C1'	1:B:959:A:C8	2.76	0.63
1:B:1039:A:C1'	1:B:1039:A:C8	2.76	0.63
1:B:1253:A:H5'	1:B:1254:A:C1'	2.29	0.63
1:B:1428:C:H5'	1:B:1429:G:O3'	1.97	0.63
1:B:1451:C:O5'	1:B:1526:C:C2	2.51	0.63
1:B:1452:G:H5"	1:B:1527:G:OP2	1.98	0.63
1:B:1453:A:OP1	1:B:1526:C:C5'	2.45	0.63
1:B:1583:A:H5"	1:B:1584:U:H5'	1.80	0.63
1:B:1609:A:C2'	1:B:1610:A:P	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1670:C:O2	1:B:1749:A:O3'	2.15	0.63
1:B:1672:A:C4	1:B:1673:G:O3'	2.50	0.63
1:B:1819:A:C1'	1:B:1819:A:C8	2.76	0.63
1:B:1847:A:C4'	1:B:1848:A:P	2.86	0.63
1:B:1942:C:O4'	1:B:2442:C:C4'	2.46	0.63
1:B:1953:A:C1'	1:B:1953:A:C4	2.74	0.63
1:B:1971:U:O2'	1:B:1972:G:O5'	2.15	0.63
1:B:2145:C:H2'	1:B:2145:C:O2	1.98	0.63
1:B:2274:A:O3'	1:B:2427:C:O2'	2.16	0.63
1:B:2357:G:O6	1:B:2362:C:O2	2.17	0.63
1:B:2439:A:C1'	1:B:2439:A:C4	2.74	0.63
1:B:2675:A:HO2'	1:B:2676:C:H3'	1.62	0.63
1:B:45:G:C5'	1:B:46:G:H5"	2.29	0.63
1:B:56:A:O2'	1:B:57:C:H5'	1.98	0.63
1:B:78:U:OP2	1:B:99:U:C1'	2.45	0.63
1:B:99:U:C1'	1:B:99:U:C2	2.79	0.63
1:B:112:U:O2'	1:B:119:A:H2'	1.98	0.63
1:B:129:C:P	1:B:1327:A:N1	2.71	0.63
1:B:197:A:OP2	1:B:198:C:H5	1.82	0.63
1:B:300:A:C5'	1:B:300:A:H4'	2.16	0.63
1:B:363:G:H8	1:B:429:A:OP1	1.80	0.63
1:B:469:G:C1'	1:B:469:G:C4	2.77	0.63
1:B:472:A:H2'	1:B:473:G:C5'	2.28	0.63
1:B:500:G:N7	1:B:504:A:C4'	2.60	0.63
1:B:527:C:C2'	1:B:1189:A:N6	2.59	0.63
1:B:609:A:C1'	1:B:609:A:C4	2.75	0.63
1:B:626:A:C1'	1:B:626:A:C8	2.76	0.63
1:B:980:A:C1'	1:B:980:A:C8	2.76	0.63
1:B:1130:U:O2'	1:B:2752:C:O3'	2.16	0.63
1:B:1214:A:H2	1:B:1215:G:O4'	1.80	0.63
1:B:1417:C:N1	1:B:1466:U:C3'	2.50	0.63
1:B:1581:G:C6	1:B:1630:A:N7	2.66	0.63
1:B:1631:G:C1'	1:B:1631:G:C4	2.74	0.63
1:B:1720:U:H5'	1:B:1722:A:O2'	1.97	0.63
1:B:1738:G:C1'	1:B:1738:G:C4	2.76	0.63
1:B:1791:A:N3	1:B:1934:C:N1	2.43	0.63
1:B:1801:A:N9	1:B:1816:C:O2'	2.29	0.63
1:B:1803:A:OP2	1:B:1804:C:H1'	1.98	0.63
1:B:1847:A:C6	1:B:1889:A:C8	2.86	0.63
1:B:1971:U:C5	1:B:2554:U:C4'	2.82	0.63
1:B:2163:A:C1'	1:B:2163:A:C8	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2469:A:H5"	1:B:2476:A:N6	2.13	0.63
1:B:2725:A:H5'	1:B:2728:U:C5'	2.16	0.63
1:B:83:A:C1'	1:B:83:A:C4	2.75	0.63
1:B:188:G:OP1	1:B:190:A:C5	2.52	0.63
1:B:206:U:P	1:B:207:A:C5'	2.82	0.63
1:B:423:A:O3'	1:B:424:G:O5'	2.16	0.63
1:B:513:A:C1'	1:B:513:A:C4	2.74	0.63
1:B:548:G:C1'	1:B:548:G:C4	2.76	0.63
1:B:571:U:OP1	1:B:572:A:O2'	2.17	0.63
1:B:585:G:C2'	1:B:1195:G:O2'	2.46	0.63
1:B:603:A:N6	1:B:659:G:H5'	2.13	0.63
1:B:608:A:C1'	1:B:608:A:C4	2.76	0.63
1:B:728:G:C1'	1:B:729:G:H5'	2.26	0.63
1:B:809:G:C5'	1:B:810:U:OP1	2.44	0.63
1:B:844:A:H5"	1:B:847:U:C5	2.34	0.63
1:B:861:A:N6	1:B:912:C:C4	2.59	0.63
1:B:906:U:O2'	1:B:907:G:C8	2.52	0.63
1:B:1008:A:C1'	1:B:1008:A:C8	2.76	0.63
1:B:1048:A:C1'	1:B:1049:C:C5	2.77	0.63
1:B:1285:A:N3	1:B:2012:G:P	2.72	0.63
1:B:1453:A:H5'	1:B:1524:G:OP1	1.97	0.63
1:B:1463:C:N4	1:B:1544:A:C1'	2.55	0.63
1:B:1610:A:H4'	1:B:1611:C:C5	2.32	0.63
1:B:1744:A:H2'	1:B:1746:A:OP1	1.98	0.63
1:B:1790:C:N4	1:B:1830:C:H5	1.95	0.63
1:B:1801:A:C1'	1:B:1801:A:C4	2.76	0.63
1:B:1899:A:O3'	1:B:1900:A:O4'	2.17	0.63
1:B:1938:A:C4'	1:B:1941:C:C4	2.80	0.63
1:B:1950:G:HO2'	1:B:1951:U:P	2.13	0.63
1:B:2405:G:C1'	1:B:2405:G:C4	2.77	0.63
1:B:2445:G:H5'	1:B:2555:U:C6	2.34	0.63
1:B:2682:A:C1'	1:B:2682:A:C4	2.72	0.63
1:B:2721:A:C1'	1:B:2721:A:C8	2.76	0.63
1:B:2844:G:C1'	1:B:2844:G:C4	2.72	0.63
1:B:2859:G:C1'	1:B:2859:G:C4	2.78	0.63
1:B:2871:U:H5'	1:B:2872:A:N3	2.11	0.63
1:B:2872:A:C1'	1:B:2872:A:C4	2.77	0.63
1:B:7:G:OP1	1:B:526:A:H1'	1.99	0.63
1:B:112:U:C5'	1:B:112:U:H4'	2.16	0.63
1:B:135:U:OP1	1:B:168:G:C4'	2.46	0.63
1:B:247:G:C1'	1:B:247:G:C4	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:A:C1'	1:B:401:A:C8	2.76	0.63
1:B:450:G:O6	1:B:592:A:C2	2.51	0.63
1:B:461:C:H41	1:B:479:A:H62	1.46	0.63
1:B:466:A:C1'	1:B:466:A:C8	2.75	0.63
1:B:525:U:C2'	1:B:811:U:C6	2.70	0.63
1:B:572:A:O5'	1:B:2620:C:OP2	2.15	0.63
1:B:643:A:C1'	1:B:643:A:C4	2.73	0.63
1:B:647:G:P	1:B:653:U:C5'	2.86	0.63
1:B:684:G:C1'	1:B:684:G:C4	2.75	0.63
1:B:930:G:OP2	1:B:931:U:C4'	2.46	0.63
1:B:1006:C:C4'	1:B:1007:C:H5'	2.24	0.63
1:B:1009:A:C1'	1:B:1009:A:C4	2.75	0.63
1:B:1131:G:H5"	1:B:2752:C:O2	1.98	0.63
1:B:1131:G:H5"	1:B:2752:C:N3	2.13	0.63
1:B:1135:C:O5'	1:B:1140:C:H3'	1.96	0.63
1:B:1137:G:O2'	1:B:2583:G:C1'	2.47	0.63
1:B:1371:G:C1'	1:B:1371:G:C4	2.76	0.63
1:B:1425:G:C1'	1:B:1425:G:C4	2.78	0.63
1:B:1527:G:O2'	1:B:1529:G:OP1	2.17	0.63
1:B:1570:A:C6	1:B:1572:A:C8	2.86	0.63
1:B:1584:U:H3	1:B:1586:A:C4'	2.11	0.63
1:B:1610:A:H2	1:B:1612:C:OP2	1.78	0.63
1:B:1664:A:C6	1:B:1759:A:OP1	2.51	0.63
1:B:1693:U:H3'	1:B:1694:C:C5	2.33	0.63
1:B:1883:U:O2'	1:B:1884:G:O4'	2.16	0.63
1:B:1918:A:C1'	1:B:1918:A:C8	2.75	0.63
1:B:2031:A:C1'	1:B:2031:A:C8	2.76	0.63
1:B:2683:C:OP2	1:B:2720:U:H1'	1.98	0.63
1:B:2686:G:C1'	1:B:2686:G:C4	2.77	0.63
1:B:2719:G:C3'	1:B:2720:U:H5'	2.28	0.63
1:B:2884:U:C3'	1:B:2887:A:H8	2.11	0.63
1:B:72:U:HO2'	1:B:115:C:P	2.19	0.63
1:B:92:U:C3'	1:B:499:U:OP2	2.46	0.63
1:B:201:C:OP2	1:B:203:A:C8	2.52	0.63
1:B:223:A:O4'	1:B:224:U:C5	2.52	0.63
1:B:279:A:C1'	1:B:279:A:C8	2.75	0.63
1:B:310:A:C1'	1:B:310:A:C8	2.77	0.63
1:B:345:A:C1'	1:B:345:A:C8	2.76	0.63
1:B:402:A:C1'	1:B:402:A:C8	2.76	0.63
1:B:435:C:C3'	1:B:436:C:OP2	2.47	0.63
1:B:506:G:C1'	1:B:506:G:C4	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:A:O5’	1:B:669:G:N3	2.32	0.63
1:B:571:U:P	1:B:572:A:H5”	2.38	0.63
1:B:674:G:C5’	1:B:1249:U:O3’	2.47	0.63
1:B:896:A:H4’	1:B:897:C:P	2.39	0.63
1:B:942:G:O3’	1:B:943:A:H2	1.82	0.63
1:B:1022:G:N3	1:B:2482:A:C8	2.67	0.63
1:B:1264:A:C3’	1:B:1265:A:C5’	2.77	0.63
1:B:1290:C:C5’	1:B:1646:C:C4’	2.43	0.63
1:B:1311:G:H5’	1:B:1643:G:OP2	1.99	0.63
1:B:1325:U:H2’	1:B:1326:U:C2	2.33	0.63
1:B:1342:A:C1’	1:B:1342:A:C4	2.72	0.63
1:B:1372:U:H2’	1:B:1372:U:O2	1.98	0.63
1:B:1426:G:P	1:B:1567:G:H8	2.22	0.63
1:B:1427:A:O4’	1:B:1572:A:C2	2.51	0.63
1:B:1445:G:C1’	1:B:1445:G:C4	2.75	0.63
1:B:1452:G:C8	1:B:1461:C:C1’	2.82	0.63
1:B:1468:U:H1’	1:B:1527:G:O4’	1.99	0.63
1:B:1516:G:C1’	1:B:1516:G:C4	2.77	0.63
1:B:1603:A:C1’	1:B:1603:A:C4	2.74	0.63
1:B:1610:A:O3’	1:B:1610:A:C2’	2.45	0.63
1:B:1654:A:C1’	1:B:1654:A:C4	2.74	0.63
1:B:1790:C:OP1	1:B:1971:U:O5’	2.16	0.63
1:B:1801:A:C1’	1:B:1816:C:HO2’	2.10	0.63
1:B:1853:A:C2’	1:B:1854:A:C4’	2.77	0.63
1:B:1929:G:C1’	1:B:1929:G:C4	2.76	0.63
1:B:1929:G:C5’	1:B:1938:A:OP1	2.47	0.63
1:B:1935:G:H21	1:B:1939:5MU:C4’	2.10	0.63
1:B:1943:U:C2’	1:B:2072:C:H5’	2.27	0.63
1:B:1992:G:HO2’	1:B:1993:U:H5	1.45	0.63
1:B:2005:A:C1’	1:B:2005:A:C4	2.73	0.63
1:B:2224:G:C1’	1:B:2224:G:C4	2.75	0.63
1:B:2497:A:C1’	1:B:2497:A:C8	2.76	0.63
1:B:2757:A:C1’	1:B:2757:A:C4	2.72	0.63
1:B:73:A:O5’	1:B:113:U:C1’	2.47	0.63
1:B:76:C:P	1:B:120:U:P	2.96	0.63
1:B:93:G:C5’	1:B:504:A:OP1	2.46	0.63
1:B:98:G:C5’	1:B:103:A:OP1	2.46	0.63
1:B:111:A:P	1:B:170:U:OP1	2.57	0.63
1:B:180:G:O6	1:B:199:A:OP1	2.16	0.63
1:B:226:A:N1	1:B:432:A:P	2.72	0.63
1:B:472:A:C1’	1:B:472:A:C8	2.75	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:G:C1’	1:B:488:G:C4	2.76	0.63
1:B:846:U:H5”	1:B:927:A:C5	2.34	0.63
1:B:1005:C:OP2	1:B:1010:A:C8	2.52	0.63
1:B:1130:U:C5	1:B:2749:A:O2’	2.52	0.63
1:B:1131:G:OP2	1:B:2753:A:OP1	2.17	0.63
1:B:1205:A:C1’	1:B:1205:A:C4	2.73	0.63
1:B:1298:C:P	1:B:1339:G:N2	2.72	0.63
1:B:1351:C:N4	1:B:1378:A:OP2	2.32	0.63
1:B:1523:U:O5’	1:B:1528:A:H3’	1.99	0.63
1:B:1582:C:O2	1:B:1634:A:H8	1.81	0.63
1:B:1668:A:P	1:B:1669:A:C5’	2.87	0.63
1:B:1791:A:C5’	1:B:1942:C:C5	2.82	0.63
1:B:1791:A:C5’	1:B:1942:C:C6	2.82	0.63
1:B:1941:C:C1’	1:B:1941:C:C6	2.73	0.63
1:B:1941:C:O5’	1:B:2062:A:O2’	2.17	0.63
1:B:2226:C:HO2’	1:B:2227:A:H5’	1.62	0.63
1:B:2394:C:O2’	1:B:2395:C:OP2	2.08	0.63
1:B:2497:A:C2’	1:B:2657:A:N1	2.62	0.63
1:B:2502:G:H21	1:B:2769:U:C5’	2.12	0.63
1:B:2871:U:H5”	1:B:2871:U:H4’	1.72	0.63
1:B:51:G:C1’	1:B:51:G:C4	2.76	0.63
1:B:99:U:H2’	1:B:100:U:OP1	1.98	0.63
1:B:137:U:C5	1:B:138:U:H1’	2.34	0.63
1:B:213:A:H2’	1:B:214:G:O5’	1.99	0.63
1:B:219:A:C1’	1:B:219:A:C8	2.75	0.63
1:B:263:G:C1’	1:B:263:G:C4	2.76	0.63
1:B:412:A:C1’	1:B:412:A:C4	2.74	0.63
1:B:422:A:C1’	1:B:422:A:C8	2.75	0.63
1:B:477:A:C1’	1:B:477:A:C8	2.75	0.63
1:B:492:A:C1’	1:B:492:A:C4	2.74	0.63
1:B:646:U:C6	1:B:647:G:H4’	2.34	0.63
1:B:728:G:C3’	1:B:729:G:C5’	2.65	0.63
1:B:788:A:N1	1:B:790:U:C5	2.66	0.63
1:B:846:U:C2’	1:B:847:U:O5’	2.38	0.63
1:B:866:A:O2’	1:B:915:C:C1’	2.45	0.63
1:B:941:A:C1’	1:B:941:A:C8	2.77	0.63
1:B:955:U:OP2	1:B:956:G:N7	2.32	0.63
1:B:1019:U:H1’	1:B:1028:A:C4’	2.29	0.63
1:B:1234:U:O5’	1:B:1235:G:H5’	1.99	0.63
1:B:1421:G:OP2	1:B:1569:A:C4	2.51	0.63
1:B:1520:U:H2’	1:B:1536:C:H5”	1.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1715:G:C8	1:B:1737:G:N2	2.67	0.63
1:B:1755:A:OP1	1:B:1764:C:O2	2.15	0.63
1:B:1839:G:C5'	1:B:1840:G:C8	2.70	0.63
1:B:1870:C:O5'	1:B:2159:G:OP2	2.17	0.63
1:B:1971:U:O2	1:B:1971:U:C2'	2.47	0.63
1:B:1992:G:C4'	1:B:1993:U:H5'	2.29	0.63
1:B:2058:A:C2	1:B:2069:7MG:OP1	2.52	0.63
1:B:2496:C:H2'	1:B:2497:A:O4'	1.97	0.63
1:B:2502:G:C2	1:B:2769:U:OP1	2.52	0.63
1:B:60:G:O3'	1:B:61:C:H5"	1.96	0.63
1:B:98:G:N9	1:B:102:U:C5	2.67	0.63
1:B:103:A:C1'	1:B:103:A:C4	2.74	0.63
1:B:337:C:O5'	1:B:338:G:H5'	1.98	0.63
1:B:363:G:C8	1:B:429:A:OP1	2.52	0.63
1:B:412:A:H4'	1:B:2405:G:C2	2.34	0.63
1:B:454:A:C1'	1:B:454:A:C8	2.76	0.63
1:B:896:A:O3'	1:B:896:A:C4'	2.42	0.63
1:B:1274:A:C2'	1:B:1287:A:O3'	2.47	0.63
1:B:1582:C:N3	1:B:1633:G:H8	1.96	0.63
1:B:1674:G:C2'	1:B:1679:A:H3'	2.29	0.63
1:B:1698:A:C1'	1:B:1698:A:C8	2.77	0.63
1:B:1744:A:C1'	1:B:1744:A:C4	2.73	0.63
1:B:1763:G:C1'	1:B:1763:G:C4	2.77	0.63
1:B:1791:A:C8	1:B:2441:U:O2'	2.52	0.63
1:B:1942:C:H5'	1:B:1942:C:O4'	1.99	0.63
1:B:2062:A:C5'	1:B:2063:C:C5	2.81	0.63
1:B:2119:A:C1'	1:B:2119:A:C4	2.73	0.63
1:B:2126:A:C3'	1:B:2127:G:H5"	2.29	0.63
1:B:2264:C:OP2	1:B:2424:C:O2'	2.16	0.63
1:B:2344:U:HO2'	1:B:2345:G:H5"	1.57	0.63
1:B:2639:A:C2	1:B:2732:G:OP1	2.52	0.63
1:B:2838:G:O2'	1:B:2839:G:H5'	1.99	0.63
1:B:12:U:OP2	1:B:586:A:P	2.57	0.62
1:B:73:A:OP2	1:B:118:A:N3	2.32	0.62
1:B:76:C:H41	1:B:112:U:C5'	2.12	0.62
1:B:98:G:C4'	1:B:103:A:C4	2.82	0.62
1:B:110:G:P	1:B:171:U:C5'	2.87	0.62
1:B:142:A:C1'	1:B:1324:G:H21	2.04	0.62
1:B:214:G:C1'	1:B:214:G:C4	2.74	0.62
1:B:322:A:C1'	1:B:322:A:C4	2.74	0.62
1:B:432:A:C2'	1:B:433:C:H5"	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:450:G:O2'	1:B:451:U:C4'	2.46	0.62
1:B:453:A:C1'	1:B:478:A:C8	2.82	0.62
1:B:627:A:C1'	1:B:627:A:C4	2.73	0.62
1:B:646:U:OP2	1:B:654:A:C8	2.52	0.62
1:B:674:G:H22	1:B:1247:A:C3'	2.07	0.62
1:B:706:A:C1'	1:B:706:A:C8	2.74	0.62
1:B:805:G:H3'	1:B:806:C:H5'	1.81	0.62
1:B:861:A:O5'	1:B:862:G:O4'	2.16	0.62
1:B:1004:U:O3'	1:B:1010:A:N7	2.31	0.62
1:B:1019:U:OP2	1:B:2752:C:H5	1.81	0.62
1:B:1134:A:C1'	1:B:1134:A:C8	2.77	0.62
1:B:1285:A:O2'	1:B:2011:U:H4'	1.97	0.62
1:B:1377:G:C1'	1:B:1377:G:C4	2.77	0.62
1:B:1402:U:C3'	1:B:1403:A:OP1	2.47	0.62
1:B:1418:G:H3'	1:B:1631:G:N1	2.14	0.62
1:B:1566:A:O3'	1:B:1566:A:C2'	2.44	0.62
1:B:1632:A:C1'	1:B:1632:A:C8	2.77	0.62
1:B:1676:A:C1'	1:B:1676:A:C8	2.74	0.62
1:B:1720:U:O2'	1:B:1721:G:H5'	1.98	0.62
1:B:1731:G:C1'	1:B:1731:G:C4	2.76	0.62
1:B:1808:A:C1'	1:B:1808:A:C8	2.76	0.62
1:B:1884:G:C3'	1:B:1884:G:P	2.87	0.62
1:B:1978:A:C3'	1:B:1979:U:C5'	2.69	0.62
1:B:2107:G:C3'	1:B:2112:G:OP2	2.44	0.62
1:B:2126:A:H4'	1:B:2127:G:C5'	2.28	0.62
1:B:2165:C:O2	1:B:2166:U:C6	2.51	0.62
1:B:2564:A:C1'	1:B:2564:A:C8	2.76	0.62
1:B:2638:G:C1'	1:B:2638:G:C4	2.77	0.62
1:B:2663:G:H4'	1:B:2663:G:OP1	1.98	0.62
1:B:2835:A:O5'	1:B:2836:U:C5	2.51	0.62
1:B:14:A:C4'	1:B:1256:G:O6	2.48	0.62
1:B:34:U:C5'	1:B:793:A:N3	2.55	0.62
1:B:52:A:C1'	1:B:52:A:C8	2.76	0.62
1:B:87:U:OP2	1:B:88:G:H8	1.74	0.62
1:B:91:A:H3'	1:B:498:G:C6	2.32	0.62
1:B:190:A:C1'	1:B:190:A:C8	2.77	0.62
1:B:203:A:C1'	1:B:203:A:C8	2.77	0.62
1:B:215:G:H1'	1:B:257:C:C6	2.34	0.62
1:B:216:A:O5'	1:B:218:A:H1'	1.98	0.62
1:B:265:A:C8	1:B:369:U:H1'	2.34	0.62
1:B:476:G:N2	1:B:804:A:C5	2.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:504:A:C1’	1:B:504:A:C8	2.75	0.62
1:B:514:A:C5’	1:B:669:G:N3	2.62	0.62
1:B:601:C:H5”	1:B:602:A:C5’	2.29	0.62
1:B:620:G:C1’	1:B:620:G:C4	2.77	0.62
1:B:677:A:C1’	1:B:677:A:C8	2.78	0.62
1:B:751:A:C1’	1:B:751:A:C8	2.76	0.62
1:B:802:A:C5’	1:B:1253:A:O3’	2.47	0.62
1:B:821:A:C1’	1:B:821:A:C8	2.76	0.62
1:B:1128:G:C2	1:B:2751:G:O3’	2.52	0.62
1:B:1142:A:C5’	1:B:1143:A:N7	2.60	0.62
1:B:1427:A:O4’	1:B:1572:A:H2	1.82	0.62
1:B:1543:G:H3’	1:B:1545:A:C2	2.34	0.62
1:B:1565:C:H4’	1:B:1566:A:C5’	2.29	0.62
1:B:1672:A:OP1	1:B:1672:A:O4’	2.17	0.62
1:B:1679:A:H3’	1:B:1680:U:P	2.37	0.62
1:B:1755:A:C1’	1:B:1755:A:C4	2.74	0.62
1:B:1847:A:C2	1:B:1889:A:O5’	2.51	0.62
1:B:1857:G:O5’	1:B:1886:U:N3	2.14	0.62
1:B:1870:C:C6	1:B:1872:A:C6	2.87	0.62
1:B:1875:G:C1’	1:B:1875:G:C4	2.75	0.62
1:B:1954:G:H8	1:B:2058:A:C5’	2.10	0.62
1:B:2031:A:C1’	1:B:2031:A:C4	2.73	0.62
1:B:2211:A:C1’	1:B:2211:A:C8	2.77	0.62
1:B:2238:G:C1’	1:B:2238:G:C4	2.77	0.62
1:B:2330:G:C3’	1:B:2331:G:H5’	2.29	0.62
1:B:2394:C:OP1	1:B:2396:G:OP1	2.18	0.62
1:B:2445:G:N7	1:B:2554:U:C4	2.67	0.62
1:B:2776:A:C3’	1:B:2777:G:C5’	2.67	0.62
1:B:11:C:O2’	1:B:1195:G:H3’	1.99	0.62
1:B:34:U:H2’	1:B:678:C:P	2.39	0.62
1:B:87:U:O2	1:B:497:A:H3’	2.00	0.62
1:B:98:G:C3’	1:B:102:U:O3’	2.22	0.62
1:B:111:A:C1’	1:B:111:A:C8	2.75	0.62
1:B:160:A:C1’	1:B:160:A:C8	2.75	0.62
1:B:215:G:OP2	1:B:219:A:C4’	2.46	0.62
1:B:231:A:H5”	1:B:232:G:P	2.39	0.62
1:B:450:G:C4’	1:B:452:G:H2’	2.29	0.62
1:B:453:A:H5”	1:B:478:A:H1’	1.79	0.62
1:B:477:A:O3’	1:B:477:A:N3	2.33	0.62
1:B:501:A:C1’	1:B:501:A:C8	2.76	0.62
1:B:556:A:C1’	1:B:556:A:C8	2.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:896:A:O2'	1:B:897:C:C5'	2.47	0.62
1:B:896:A:H1'	1:B:897:C:O4'	1.99	0.62
1:B:979:A:C5'	1:B:980:A:OP2	2.45	0.62
1:B:1024:G:C3'	1:B:2467:C:C4'	2.76	0.62
1:B:1024:G:H3'	1:B:2467:C:C4'	2.29	0.62
1:B:1214:A:C1'	1:B:1214:A:C8	2.77	0.62
1:B:1240:U:H5"	1:B:1241:A:OP2	1.99	0.62
1:B:1283:G:H3'	1:B:2012:G:N2	2.14	0.62
1:B:1357:C:H2'	1:B:1358:G:O5'	1.98	0.62
1:B:1582:C:H1'	1:B:1634:A:P	2.39	0.62
1:B:1671:U:C1'	1:B:1751:U:OP2	2.46	0.62
1:B:1677:A:C1'	1:B:1677:A:C4	2.74	0.62
1:B:1756:G:H4'	1:B:1757:A:OP1	2.00	0.62
1:B:1839:G:C1'	1:B:1839:G:C4	2.77	0.62
1:B:1852:U:H5"	1:B:1886:U:C4	2.33	0.62
1:B:1871:A:C6	1:B:2132:U:OP1	2.52	0.62
1:B:1930:G:OP2	1:B:1934:C:O4'	2.17	0.62
1:B:2311:A:C1'	1:B:2311:A:C4	2.73	0.62
1:B:2393:U:H3'	1:B:2396:G:P	2.38	0.62
1:B:2448:A:C2	1:B:2449:5MU:C2	2.86	0.62
1:B:2497:A:H5'	1:B:2658:C:O2	1.99	0.62
1:B:2750:A:C1'	1:B:2750:A:C4	2.76	0.62
1:B:2753:A:C1'	1:B:2753:A:C8	2.75	0.62
1:B:2763:G:C1'	1:B:2763:G:C4	2.76	0.62
1:B:2835:A:C5'	1:B:2836:U:H5	2.12	0.62
1:B:2845:U:H1'	1:B:2867:G:C8	2.34	0.62
1:B:2850:A:C1'	1:B:2850:A:C4	2.74	0.62
1:B:69:C:H5"	1:B:85:G:C5'	2.14	0.62
1:B:137:U:H2'	1:B:1325:U:C5'	2.21	0.62
1:B:167:A:O4'	1:B:168:G:C8	2.52	0.62
1:B:294:A:O5'	1:B:295:G:H8	1.80	0.62
1:B:529:A:C2	1:B:972:A:C5	2.86	0.62
1:B:614:A:C1'	1:B:614:A:C4	2.73	0.62
1:B:670:A:C4'	1:B:671:C:C5'	2.77	0.62
1:B:793:A:O3'	1:B:793:A:C4'	2.46	0.62
1:B:863:A:H2'	1:B:865:C:OP1	1.99	0.62
1:B:973:A:C1'	1:B:973:A:C8	2.76	0.62
1:B:1005:C:H6	1:B:1011:G:OP1	1.83	0.62
1:B:1040:A:H3'	1:B:1050:A:C2'	2.29	0.62
1:B:1359:A:C1'	1:B:1359:A:C4	2.76	0.62
1:B:1427:A:C5'	1:B:1573:G:OP1	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1522:A:C1'	1:B:1522:A:C4	2.76	0.62
1:B:1597:A:OP2	1:B:1598:A:C4'	2.47	0.62
1:B:1696:G:H21	1:B:2703:C:C5'	2.13	0.62
1:B:1870:C:H41	1:B:2158:A:H5"	1.63	0.62
1:B:1912:A:N3	1:B:1915:5MU:H72	2.15	0.62
1:B:1971:U:H5"	1:B:1973:G:OP2	2.00	0.62
1:B:2173:A:C1'	1:B:2173:A:C4	2.73	0.62
1:B:2267:A:C1'	1:B:2267:A:C8	2.75	0.62
1:B:2274:A:C1'	1:B:2274:A:C4	2.72	0.62
1:B:2371:G:C1'	1:B:2371:G:C4	2.76	0.62
1:B:2482:A:C4'	1:B:2484:G:OP2	2.47	0.62
1:B:100:U:H5"	1:B:119:A:C4	2.34	0.62
1:B:227:A:C6	1:B:228:C:N4	2.67	0.62
1:B:266:G:C5'	1:B:368:A:C5'	2.29	0.62
1:B:342:A:C4'	1:B:345:A:H8	2.08	0.62
1:B:361:G:C1'	1:B:361:G:C4	2.75	0.62
1:B:601:C:H5'	1:B:602:A:C5'	2.29	0.62
1:B:608:A:C5'	1:B:609:A:N7	2.57	0.62
1:B:618:G:C2'	1:B:619:G:H5"	2.29	0.62
1:B:631:A:C1'	1:B:631:A:C8	2.75	0.62
1:B:655:A:C1'	1:B:655:A:C4	2.75	0.62
1:B:803:U:O5'	1:B:1254:A:C5'	2.48	0.62
1:B:830:G:C1'	1:B:830:G:C4	2.77	0.62
1:B:1040:A:N6	1:B:1045:C:C2'	2.62	0.62
1:B:1283:G:O2'	1:B:2013:A:P	2.57	0.62
1:B:1653:G:C3'	1:B:1654:A:H5'	2.29	0.62
1:B:1809:A:C1'	1:B:1809:A:C8	2.75	0.62
1:B:1847:A:C6	1:B:2232:C:H5'	2.32	0.62
1:B:2031:A:O2'	1:B:2032:G:H5'	1.98	0.62
1:B:2112:G:C1'	1:B:2112:G:C4	2.76	0.62
1:B:2161:C:O2'	1:B:2168:G:O6	2.16	0.62
1:B:2425:A:C1'	1:B:2425:A:C8	2.76	0.62
1:B:2726:A:C1'	1:B:2726:A:C8	2.76	0.62
1:B:2823:A:C1'	1:B:2823:A:C8	2.76	0.62
1:B:2846:G:C4'	1:B:2848:G:C4	2.81	0.62
1:B:2890:G:C1'	1:B:2890:G:C4	2.76	0.62
1:B:22:C:C4'	1:B:511:U:H2'	2.30	0.62
1:B:35:G:O4'	1:B:677:A:C2	2.53	0.62
1:B:59:U:O2	1:B:64:A:N3	2.32	0.62
1:B:100:U:O5'	1:B:101:A:N7	2.33	0.62
1:B:239:C:H5'	1:B:274:C:H2'	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:C:C5’	1:B:275:C:H3’	2.29	0.62
1:B:240:C:H2’	1:B:241:A:OP1	1.99	0.62
1:B:251:A:C1’	1:B:251:A:C8	2.76	0.62
1:B:370:G:H2’	1:B:372:G:OP1	2.00	0.62
1:B:448:U:N1	1:B:474:G:OP1	2.32	0.62
1:B:482:A:C1’	1:B:482:A:C8	2.77	0.62
1:B:538:A:H2’	1:B:539:G:N7	2.08	0.62
1:B:570:G:C3’	1:B:572:A:O2’	2.47	0.62
1:B:570:G:H22	1:B:2044:C:P	2.21	0.62
1:B:603:A:C1’	1:B:603:A:C4	2.75	0.62
1:B:619:G:C1’	1:B:619:G:C4	2.77	0.62
1:B:669:G:C1’	1:B:669:G:C4	2.78	0.62
1:B:782:A:C1’	1:B:782:A:C8	2.76	0.62
1:B:792:A:H2’	1:B:793:A:O5’	2.00	0.62
1:B:931:U:OP1	1:B:933:A:O3’	2.18	0.62
1:B:1024:G:H3’	1:B:2467:C:H4’	1.82	0.62
1:B:1124:G:O6	1:B:1126:A:H8	1.83	0.62
1:B:1469:A:H5’	1:B:1528:A:C5	2.35	0.62
1:B:1480:C:C2’	1:B:1481:U:H4’	2.28	0.62
1:B:2029:G:C1’	1:B:2029:G:C4	2.76	0.62
1:B:2051:A:C8	1:B:2609:U:OP2	2.53	0.62
1:B:2108:A:H5”	1:B:2110:G:C3’	2.27	0.62
1:B:2113:U:C6	1:B:2120:G:H8	2.12	0.62
1:B:2144:G:C1’	1:B:2144:G:C4	2.77	0.62
1:B:2203:U:P	1:B:2204:G:H5’	2.40	0.62
1:B:2333:A:H2’	1:B:2334:U:OP2	2.00	0.62
1:B:2532:G:C1’	1:B:2532:G:C4	2.76	0.62
1:B:2629:U:O2’	1:B:2630:G:H5’	1.99	0.62
1:B:2738:A:C1’	1:B:2741:A:N3	2.51	0.62
1:B:2766:A:O2’	1:B:2767:C:C5’	2.39	0.62
1:B:149:A:C1’	1:B:149:A:C8	2.77	0.62
1:B:168:G:C1’	1:B:168:G:C4	2.75	0.62
1:B:190:A:N6	1:B:216:A:C4	2.67	0.62
1:B:214:G:C1’	1:B:256:A:O2’	2.46	0.62
1:B:221:A:N6	1:B:279:A:H4’	2.15	0.62
1:B:242:G:C1’	1:B:242:G:C4	2.77	0.62
1:B:323:C:O2’	1:B:324:A:P	2.56	0.62
1:B:465:G:C4’	1:B:479:A:N1	2.62	0.62
1:B:568:U:N1	1:B:833:A:H4’	2.14	0.62
1:B:861:A:C4’	1:B:862:G:OP1	2.47	0.62
1:B:919:U:H4’	1:B:920:A:OP2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:956:G:C1’	1:B:956:G:C4	2.76	0.62
1:B:1023:U:C4	1:B:2482:A:O2’	2.52	0.62
1:B:1110:G:H2’	1:B:1112:G:H5’	1.82	0.62
1:B:1131:G:C8	1:B:1133:A:P	2.91	0.62
1:B:1312:U:O5’	1:B:1640:A:O2’	2.18	0.62
1:B:1696:G:O2’	1:B:1697:G:P	2.58	0.62
1:B:1720:U:O2’	1:B:1721:G:H5”	1.99	0.62
1:B:1790:C:OP1	1:B:2443:C:OP1	2.18	0.62
1:B:1815:A:C1’	1:B:1815:A:C4	2.77	0.62
1:B:1876:A:OP1	1:B:1877:A:N7	2.33	0.62
1:B:1882:U:N1	1:B:1883:U:H3’	2.15	0.62
1:B:1883:U:H5’	1:B:1884:G:P	2.39	0.62
1:B:1927:A:HO3’	1:B:1928:A:P	2.22	0.62
1:B:1933:G:O3’	1:B:1933:G:C4’	2.46	0.62
1:B:2005:A:C1’	1:B:2005:A:C8	2.76	0.62
1:B:2018:G:C1’	1:B:2018:G:C4	2.78	0.62
1:B:2061:G:O2’	1:B:2554:U:O5’	2.17	0.62
1:B:2273:A:C1’	1:B:2273:A:C8	2.76	0.62
1:B:2688:G:OP1	1:B:2724:U:H4’	1.99	0.62
1:B:2807:U:O3’	1:B:2890:G:N2	2.33	0.62
1:B:2869:G:O2’	1:B:2870:C:H4’	2.00	0.62
1:B:2871:U:H5”	1:B:2872:A:O4’	1.97	0.62
1:B:2879:A:H8	1:B:2881:U:C4	2.17	0.62
1:B:2883:A:C1’	1:B:2883:A:C8	2.76	0.62
1:B:12:U:OP1	1:B:1195:G:C1’	2.47	0.62
1:B:63:A:C1’	1:B:63:A:C8	2.76	0.62
1:B:71:A:C5’	1:B:114:U:OP1	2.47	0.62
1:B:77:G:C5’	1:B:120:U:H6	2.13	0.62
1:B:216:A:C5’	1:B:218:A:N3	2.62	0.62
1:B:223:A:H2’	1:B:280:U:OP1	1.99	0.62
1:B:255:A:H2	1:B:276:U:H5	1.48	0.62
1:B:294:A:N7	1:B:337:C:H1’	2.15	0.62
1:B:452:G:C4’	1:B:478:A:H2’	2.26	0.62
1:B:674:G:C5’	1:B:1249:U:H5’	2.29	0.62
1:B:785:G:C1’	1:B:785:G:C4	2.77	0.62
1:B:850:U:H2’	1:B:851:C:O4’	1.98	0.62
1:B:1022:G:C5’	1:B:2463:C:OP2	2.47	0.62
1:B:1117:C:OP2	1:B:2750:A:N3	2.33	0.62
1:B:1273:U:C2	1:B:1275:A:H2’	2.34	0.62
1:B:1379:U:C2	1:B:1380:G:H5’	2.33	0.62
1:B:1625:C:H5’	1:B:1643:G:OP1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1792:G:O4'	1:B:1942:C:H2'	1.99	0.62
1:B:1818:U:C3'	1:B:1820:U:OP1	2.48	0.62
1:B:1818:U:C4'	1:B:1820:U:OP1	2.48	0.62
1:B:1928:A:H4'	1:B:1936:A:O3'	1.99	0.62
1:B:2076:U:O5'	1:B:2431:U:H5'	2.00	0.62
1:B:2114:A:O4'	1:B:2118:U:O2	2.17	0.62
1:B:2376:A:C1'	1:B:2376:A:C8	2.76	0.62
1:B:2472:G:C1'	1:B:2472:G:C4	2.77	0.62
1:B:2497:A:C2	1:B:2665:A:H4'	2.34	0.62
1:B:2543:G:H5"	1:B:2610:C:N3	2.15	0.62
1:B:111:A:P	1:B:170:U:C5'	2.88	0.62
1:B:137:U:C4	1:B:138:U:C1'	2.82	0.62
1:B:143:C:H5"	1:B:1328:A:H3'	1.81	0.62
1:B:310:A:H2'	1:B:483:A:N1	2.09	0.62
1:B:359:G:O2'	1:B:370:G:H5'	1.99	0.62
1:B:377:G:OP1	1:B:403:U:C2	2.52	0.62
1:B:450:G:OP1	1:B:452:G:C1'	2.48	0.62
1:B:685:A:H2'	1:B:686:U:OP1	2.00	0.62
1:B:885:C:H3'	1:B:886:A:H5"	1.82	0.62
1:B:1137:G:O2'	1:B:2583:G:C4	2.52	0.62
1:B:1272:A:O2'	1:B:1273:U:C5'	2.48	0.62
1:B:1289:C:C4'	1:B:1648:U:O3'	2.48	0.62
1:B:1392:A:C8	1:B:1394:U:H1'	2.34	0.62
1:B:1583:A:C1'	1:B:1583:A:C8	2.75	0.62
1:B:1678:A:P	1:B:1684:G:OP2	2.58	0.62
1:B:1715:G:C1'	1:B:1715:G:C4	2.76	0.62
1:B:1883:U:O2'	1:B:1884:G:C8	2.48	0.62
1:B:2022:U:H5"	1:B:2023:C:C6	2.34	0.62
1:B:2112:G:H3'	1:B:2178:C:C4	2.35	0.62
1:B:2135:A:C1'	1:B:2135:A:C8	2.76	0.62
1:B:2225:A:C1'	1:B:2225:A:C4	2.72	0.62
1:B:2377:A:C1'	1:B:2377:A:C8	2.78	0.62
1:B:2454:G:C1'	1:B:2454:G:C4	2.77	0.62
1:B:2608:G:C1'	1:B:2608:G:C4	2.77	0.62
1:B:2754:U:O2'	1:B:2755:C:H5"	1.99	0.62
1:B:2809:A:C1'	1:B:2810:A:O4'	2.48	0.62
1:B:15:G:P	1:B:1256:G:H8	2.22	0.62
1:B:71:A:C5	1:B:101:A:N6	2.68	0.62
1:B:75:G:N7	1:B:112:U:O5'	2.32	0.62
1:B:75:G:HO3'	1:B:119:A:H4'	1.64	0.62
1:B:110:G:P	1:B:171:U:H5'	2.40	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:G:H2'	1:B:191:A:C5'	2.27	0.62
1:B:213:A:OP1	1:B:244:A:H3'	2.00	0.62
1:B:294:A:C4'	1:B:295:G:OP1	2.48	0.62
1:B:448:U:H3'	1:B:478:A:O2'	1.99	0.62
1:B:472:A:C2'	1:B:473:G:H5'	2.30	0.62
1:B:491:G:C1'	1:B:491:G:C4	2.76	0.62
1:B:514:A:H5"	1:B:669:G:H1'	1.81	0.62
1:B:673:C:OP2	1:B:1248:G:C2'	2.47	0.62
1:B:677:A:H5"	1:B:678:C:H5	1.62	0.62
1:B:989:G:H8	1:B:1153:C:O3'	1.83	0.62
1:B:1048:A:C5'	1:B:1049:C:O4'	2.45	0.62
1:B:1130:U:C6	1:B:2754:U:O3'	2.53	0.62
1:B:1283:G:C2'	1:B:2012:G:H3'	2.30	0.62
1:B:1377:G:C8	1:B:1378:A:N6	2.68	0.62
1:B:1426:G:O5'	1:B:1567:G:C2'	2.47	0.62
1:B:1569:A:H2'	1:B:1570:A:O5'	1.99	0.62
1:B:1728:C:H2'	1:B:1729:U:C5	2.33	0.62
1:B:1762:A:N1	1:B:1992:G:O6	2.33	0.62
1:B:1828:G:C1'	1:B:1828:G:C8	2.76	0.62
1:B:1884:G:O2'	1:B:1886:U:OP1	2.17	0.62
1:B:1933:G:P	1:B:1941:C:C6	2.93	0.62
1:B:2104:C:O3'	1:B:2104:C:OP1	2.18	0.62
1:B:2158:A:H2'	1:B:2159:G:H4'	1.82	0.62
1:B:2167:U:O3'	1:B:2168:G:C3'	2.48	0.62
1:B:2172:U:C2'	1:B:2173:A:O5'	2.48	0.62
1:B:2439:A:C1'	1:B:2439:A:C8	2.77	0.62
1:B:2504:U:N3	1:B:2580:U:H5	1.95	0.62
1:B:2543:G:H5"	1:B:2610:C:C4	2.34	0.62
1:B:2871:U:C4'	1:B:2871:U:H5"	2.17	0.62
1:B:27:G:C5'	1:B:27:G:O4'	2.45	0.61
1:B:27:G:O6	1:B:670:A:C8	2.52	0.61
1:B:46:G:H2'	1:B:47:C:OP1	1.99	0.61
1:B:71:A:H4'	1:B:114:U:P	2.40	0.61
1:B:87:U:O3'	1:B:88:G:P	2.57	0.61
1:B:118:A:C1'	1:B:118:A:C4	2.79	0.61
1:B:161:A:C8	1:B:162:U:H5	2.17	0.61
1:B:178:G:H3'	1:B:179:C:H6	1.65	0.61
1:B:461:C:N4	1:B:479:A:H61	1.97	0.61
1:B:602:A:C1'	1:B:602:A:C4	2.74	0.61
1:B:645:C:O2	1:B:645:C:C2'	2.48	0.61
1:B:670:A:C1'	1:B:670:A:C4	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:901:C:O5'	1:B:902:C:C5	2.51	0.61
1:B:910:A:C1'	1:B:910:A:C8	2.76	0.61
1:B:920:A:C1'	1:B:920:A:C8	2.77	0.61
1:B:942:G:C1'	1:B:942:G:C4	2.78	0.61
1:B:1204:A:C1'	1:B:1204:A:C4	2.74	0.61
1:B:1223:G:H2'	1:B:1224:U:C4'	2.30	0.61
1:B:1242:U:C4'	1:B:1243:C:C6	2.79	0.61
1:B:1445:G:OP1	1:B:1446:C:N1	2.33	0.61
1:B:1495:A:C1'	1:B:1495:A:C4	2.73	0.61
1:B:1585:C:H5'	1:B:1586:A:O5'	1.99	0.61
1:B:1608:A:C1'	1:B:1608:A:C8	2.75	0.61
1:B:1625:C:O2'	1:B:1643:G:C4'	2.48	0.61
1:B:1700:A:C1'	1:B:1700:A:C8	2.77	0.61
1:B:1780:A:C1'	1:B:1780:A:C8	2.76	0.61
1:B:1851:U:C5	1:B:1856:U:O2'	2.53	0.61
1:B:1868:C:C5'	1:B:1869:G:OP2	2.47	0.61
1:B:1876:A:C1'	1:B:1876:A:C8	2.78	0.61
1:B:1938:A:C3'	1:B:1941:C:H41	2.13	0.61
1:B:2067:G:O5'	1:B:2439:A:C5'	2.48	0.61
1:B:2115:G:O3'	1:B:2115:G:OP2	2.17	0.61
1:B:2378:A:C5'	1:B:2379:G:H8	1.94	0.61
1:B:2468:A:H3'	1:B:2469:A:C5	2.34	0.61
1:B:2504:U:O3'	1:B:2504:U:C4'	2.45	0.61
1:B:2892:G:C1'	1:B:2892:G:C4	2.77	0.61
1:B:52:A:H62	1:B:118:A:C4'	2.12	0.61
1:B:90:U:OP2	1:B:91:A:C8	2.54	0.61
1:B:100:U:H5	1:B:118:A:HO2'	1.47	0.61
1:B:181:A:H62	1:B:203:A:N6	1.97	0.61
1:B:242:G:OP1	1:B:255:A:N7	2.32	0.61
1:B:321:U:P	1:B:324:A:C2'	2.88	0.61
1:B:369:U:H4'	1:B:369:U:H5"	1.80	0.61
1:B:529:A:C5'	1:B:530:G:C8	2.78	0.61
1:B:866:A:C2'	1:B:915:C:C2	2.75	0.61
1:B:896:A:O2'	1:B:897:C:O4'	2.18	0.61
1:B:1040:A:H5"	1:B:1050:A:N3	2.15	0.61
1:B:1045:C:H3'	1:B:1111:A:O2'	1.99	0.61
1:B:1153:C:OP1	1:B:1156:A:C4	2.53	0.61
1:B:1199:U:P	1:B:1257:C:H5"	2.39	0.61
1:B:1286:A:H2'	1:B:1287:A:H8	1.57	0.61
1:B:1312:U:H5'	1:B:1641:A:C2	2.34	0.61
1:B:1353:A:N9	1:B:1373:A:OP1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1417:C:C2	1:B:1635:A:C2	2.88	0.61
1:B:1452:G:C1'	1:B:1452:G:C4	2.76	0.61
1:B:1459:G:N1	1:B:1543:G:O2'	2.33	0.61
1:B:1543:G:C1'	1:B:1543:G:C4	2.77	0.61
1:B:1566:A:C4'	1:B:1566:A:O3'	2.47	0.61
1:B:1673:G:C1'	1:B:1673:G:C4	2.76	0.61
1:B:1719:G:HO2'	1:B:1722:A:H5'	1.64	0.61
1:B:1936:A:O5'	1:B:1939:5MU:OP1	2.17	0.61
1:B:1940:U:H2'	1:B:2062:A:O3'	2.00	0.61
1:B:1950:G:O2'	1:B:1951:U:OP1	2.13	0.61
1:B:1971:U:C2	1:B:2554:U:C5	2.88	0.61
1:B:2016:U:H3'	1:B:2017:U:H6	1.65	0.61
1:B:2042:A:C5'	1:B:2042:A:O4'	2.48	0.61
1:B:2365:G:C1'	1:B:2365:G:C4	2.77	0.61
1:B:2500:U:O2	1:B:2500:U:H2'	2.00	0.61
1:B:2501:C:H5'	1:B:2574:G:N7	2.14	0.61
1:B:2502:G:C1'	1:B:2502:G:C4	2.77	0.61
1:B:2733:A:H2'	1:B:2734:A:OP2	1.99	0.61
1:B:2764:A:H5'	1:B:2765:A:N7	2.15	0.61
1:B:2835:A:C1'	1:B:2835:A:C8	2.76	0.61
1:B:28:A:C1'	1:B:28:A:C8	2.76	0.61
1:B:165:A:C5	1:B:166:U:C4	2.89	0.61
1:B:244:A:C2	1:B:248:G:H5"	2.34	0.61
1:B:455:C:C5'	1:B:656:G:OP1	2.48	0.61
1:B:455:C:O5'	1:B:456:C:C5'	2.48	0.61
1:B:472:A:H2'	1:B:473:G:H5'	1.82	0.61
1:B:489:G:C8	1:B:510:C:C2'	2.81	0.61
1:B:673:C:OP2	1:B:1248:G:O2'	2.17	0.61
1:B:686:U:OP2	1:B:687:C:N4	2.33	0.61
1:B:749:A:N3	1:B:2614:A:N6	2.38	0.61
1:B:775:G:OP1	1:B:776:G:O4'	2.18	0.61
1:B:845:A:C8	1:B:848:C:N4	2.68	0.61
1:B:866:A:C1'	1:B:866:A:C4	2.79	0.61
1:B:931:U:OP1	1:B:934:U:C6	2.54	0.61
1:B:978:G:C3'	1:B:979:A:C5'	2.68	0.61
1:B:1016:G:O2'	1:B:2754:U:C4	2.53	0.61
1:B:1025:G:H2'	1:B:1026:G:C5'	2.29	0.61
1:B:1471:G:N2	1:B:1522:A:N7	2.45	0.61
1:B:1543:G:H5'	1:B:1545:A:N6	2.14	0.61
1:B:1598:A:O3'	1:B:1598:A:H3'	1.91	0.61
1:B:1639:C:O2'	1:B:1640:A:O5'	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1847:A:C5	1:B:2232:C:C4’	2.83	0.61
1:B:1872:A:C1’	1:B:1872:A:C8	2.75	0.61
1:B:1875:G:H3’	1:B:1876:A:C5	2.36	0.61
1:B:1938:A:C4’	1:B:1938:A:H5”	2.17	0.61
1:B:2060:A:O3’	1:B:2447:G:OP2	2.17	0.61
1:B:2335:A:C2’	1:B:2336:A:C5’	2.26	0.61
1:B:2468:A:O3’	1:B:2469:A:C2	2.53	0.61
1:B:2542:A:C1’	1:B:2542:A:C8	2.76	0.61
1:B:2703:C:N4	1:B:2704:C:C2	2.68	0.61
1:B:2747:G:C1’	1:B:2747:G:C4	2.75	0.61
1:B:2757:A:C1’	1:B:2757:A:C8	2.76	0.61
1:B:2883:A:C2	1:B:2885:G:O3’	2.53	0.61
1:B:33:C:H1’	1:B:677:A:C4	2.33	0.61
1:B:35:G:H5”	1:B:793:A:C2	2.35	0.61
1:B:73:A:H4’	1:B:73:A:H5”	1.73	0.61
1:B:76:C:H5	1:B:119:A:HO2’	0.82	0.61
1:B:244:A:C1’	1:B:249:C:OP1	2.48	0.61
1:B:299:A:C1’	1:B:299:A:C8	2.76	0.61
1:B:324:A:HO3’	1:B:325:G:P	2.23	0.61
1:B:449:A:C4’	1:B:449:A:H5’	2.17	0.61
1:B:457:A:C2’	1:B:459:U:O5’	2.48	0.61
1:B:502:A:C1’	1:B:502:A:C8	2.76	0.61
1:B:613:A:C1’	1:B:613:A:C8	2.76	0.61
1:B:915:C:C3’	1:B:916:G:P	2.87	0.61
1:B:1021:A:N6	1:B:2481:G:N1	2.48	0.61
1:B:1025:G:H21	1:B:2477:U:C5’	2.12	0.61
1:B:1284:A:O5’	1:B:2012:G:H2’	1.98	0.61
1:B:1354:A:C6	1:B:1377:G:N2	2.69	0.61
1:B:1427:A:H5”	1:B:1573:G:OP1	2.00	0.61
1:B:1472:C:N4	1:B:1515:A:C2	2.69	0.61
1:B:1475:G:C1’	1:B:1475:G:C4	2.76	0.61
1:B:1573:G:O3’	1:B:1631:G:H1’	2.01	0.61
1:B:1696:G:C1’	1:B:1696:G:C4	2.76	0.61
1:B:1780:A:N7	1:B:1784:A:N6	2.49	0.61
1:B:1856:U:C4’	1:B:1886:U:O4’	2.49	0.61
1:B:1933:G:H5’	1:B:1941:C:C5’	2.31	0.61
1:B:2212:A:C1’	1:B:2212:A:C8	2.76	0.61
1:B:2365:G:O5’	1:B:2366:A:C1’	2.48	0.61
1:B:2392:A:H3’	1:B:2393:U:C5	2.36	0.61
1:B:2492:U:C2’	1:B:2493:U:C5’	2.76	0.61
1:B:2740:A:O3’	1:B:2742:G:N7	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2808:G:C1'	1:B:2808:G:C4	2.76	0.61
1:B:2809:A:C2'	1:B:2810:A:O4'	2.47	0.61
1:B:2849:U:C5'	1:B:2850:A:H5"	2.30	0.61
1:B:2883:A:C6	1:B:2885:G:H2'	2.35	0.61
1:B:91:A:C3'	1:B:498:G:O6	2.39	0.61
1:B:94:A:O3'	1:B:94:A:C2'	2.47	0.61
1:B:98:G:H5"	1:B:103:A:N3	2.15	0.61
1:B:177:G:C1'	1:B:177:G:C4	2.77	0.61
1:B:201:C:O2'	1:B:202:U:C5'	2.48	0.61
1:B:202:U:O3'	1:B:202:U:C4'	2.46	0.61
1:B:215:G:H5"	1:B:257:C:O5'	2.00	0.61
1:B:215:G:C1'	1:B:257:C:C5	2.84	0.61
1:B:220:G:C1'	1:B:220:G:C4	2.77	0.61
1:B:277:G:C1'	1:B:277:G:C4	2.78	0.61
1:B:294:A:P	1:B:294:A:HO5'	2.05	0.61
1:B:384:A:C1'	1:B:384:A:C8	2.75	0.61
1:B:447:A:C2	1:B:465:G:H8	2.18	0.61
1:B:453:A:O2'	1:B:458:G:OP2	2.17	0.61
1:B:608:A:H4'	1:B:609:A:C8	2.35	0.61
1:B:625:G:C1'	1:B:625:G:C4	2.78	0.61
1:B:627:A:C1'	1:B:627:A:C8	2.76	0.61
1:B:819:A:C1'	1:B:819:A:C8	2.77	0.61
1:B:838:C:OP2	1:B:975:A:C2'	2.48	0.61
1:B:839:U:O2'	1:B:962:G:C3'	2.48	0.61
1:B:1023:U:C5	1:B:2484:G:O6	2.53	0.61
1:B:1132:U:C5	1:B:2753:A:N1	2.69	0.61
1:B:1272:A:C1'	1:B:1272:A:C8	2.78	0.61
1:B:1463:C:OP2	1:B:1545:A:H3'	2.00	0.61
1:B:1674:G:O2'	1:B:1679:A:H5'	1.99	0.61
1:B:1846:G:C4'	1:B:1847:A:OP2	2.43	0.61
1:B:1854:A:P	1:B:1888:G:C4	2.93	0.61
1:B:1875:G:OP1	1:B:1876:A:O3'	2.17	0.61
1:B:1932:A:O5'	1:B:1935:G:OP2	2.18	0.61
1:B:2061:G:N2	1:B:2553:G:P	2.74	0.61
1:B:2068:U:OP2	1:B:2438:U:H3'	2.01	0.61
1:B:2555:U:H1'	1:B:2556:C:OP1	1.99	0.61
1:B:2682:A:C1'	1:B:2682:A:C8	2.76	0.61
1:B:2704:C:C5	1:B:2705:A:C5	2.89	0.61
1:B:34:U:H4'	1:B:35:G:OP1	2.00	0.61
1:B:111:A:OP1	1:B:170:U:P	2.58	0.61
1:B:143:C:O5'	1:B:1328:A:C2	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:C:C1’	1:B:433:C:OP2	2.48	0.61
1:B:294:A:N3	1:B:326:G:N2	2.46	0.61
1:B:308:G:C1’	1:B:308:G:C4	2.76	0.61
1:B:435:C:HO3’	1:B:436:C:P	2.09	0.61
1:B:514:A:O2’	1:B:670:A:C4’	2.49	0.61
1:B:524:G:OP2	1:B:586:A:C2	2.53	0.61
1:B:633:A:C1’	1:B:633:A:C8	2.76	0.61
1:B:839:U:O2’	1:B:962:G:O2’	2.05	0.61
1:B:845:A:C5	1:B:849:A:N6	2.65	0.61
1:B:886:A:C2’	1:B:887:U:C5	2.75	0.61
1:B:971:G:C3’	1:B:972:A:P	2.89	0.61
1:B:1041:G:P	1:B:1050:A:H1’	2.41	0.61
1:B:1117:C:P	1:B:2750:A:O3’	2.58	0.61
1:B:1117:C:H5’	1:B:1129:A:O3’	1.99	0.61
1:B:1128:G:C3’	1:B:2752:C:OP1	2.49	0.61
1:B:1155:A:C1’	1:B:1155:A:C8	2.76	0.61
1:B:1210:G:C1’	1:B:1210:G:C4	2.76	0.61
1:B:1223:G:H2’	1:B:1224:U:H5’	1.81	0.61
1:B:1289:C:C5’	1:B:1649:G:OP1	2.49	0.61
1:B:1455:G:OP2	1:B:1468:U:O4	2.18	0.61
1:B:1577:C:OP1	1:B:1579:A:N6	2.30	0.61
1:B:1605:C:C6	1:B:1665:A:C5’	2.84	0.61
1:B:1664:A:C5’	1:B:1665:A:P	2.88	0.61
1:B:1762:A:C1’	1:B:1762:A:C8	2.76	0.61
1:B:1848:A:C1’	1:B:1848:A:C4	2.74	0.61
1:B:1855:U:C5	1:B:1886:U:H3’	2.33	0.61
1:B:1899:A:O3’	1:B:1900:A:N3	2.32	0.61
1:B:1971:U:C2’	1:B:1972:G:H5”	2.29	0.61
1:B:2103:C:O5’	1:B:2104:C:C5’	2.48	0.61
1:B:2143:C:O2’	1:B:2145:C:N4	2.30	0.61
1:B:2357:G:C1’	1:B:2357:G:C8	2.76	0.61
1:B:2565:A:C1’	1:B:2565:A:C8	2.78	0.61
1:B:2656:U:O4	1:B:2664:G:H2’	1.99	0.61
1:B:2799:A:C1’	1:B:2799:A:C8	2.77	0.61
1:B:2846:G:P	1:B:2848:G:N3	2.73	0.61
1:B:64:A:C1’	1:B:64:A:C4	2.77	0.61
1:B:92:U:C5’	1:B:92:U:H4’	2.17	0.61
1:B:98:G:O2’	1:B:101:A:C2’	2.48	0.61
1:B:137:U:C5	1:B:138:U:C1’	2.84	0.61
1:B:221:A:N9	1:B:279:A:OP1	2.33	0.61
1:B:311:A:P	1:B:483:A:H62	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:A:HO2'	1:B:670:A:C5'	2.13	0.61
1:B:546:U:H2'	1:B:547:A:H8	1.62	0.61
1:B:570:G:C6	1:B:2044:C:H5	2.19	0.61
1:B:585:G:C4'	1:B:1196:C:C5'	2.78	0.61
1:B:726:G:C1'	1:B:726:G:C4	2.76	0.61
1:B:805:G:C1'	1:B:1252:G:C4'	2.77	0.61
1:B:830:G:H5"	1:B:831:G:P	2.41	0.61
1:B:979:A:H5"	1:B:980:A:OP2	1.99	0.61
1:B:989:G:C1'	1:B:989:G:C4	2.76	0.61
1:B:1025:G:H2'	1:B:1026:G:H5'	1.82	0.61
1:B:1050:A:H5'	1:B:1052:C:OP2	2.01	0.61
1:B:1130:U:O3'	1:B:2753:A:P	2.58	0.61
1:B:1274:A:H1'	1:B:1288:G:P	2.40	0.61
1:B:1285:A:N9	1:B:2011:U:O2'	2.33	0.61
1:B:1286:A:C1'	1:B:1286:A:C8	2.75	0.61
1:B:1419:A:OP2	1:B:1419:A:C8	2.54	0.61
1:B:1445:G:C3'	1:B:1543:G:O6	2.49	0.61
1:B:1469:A:O3'	1:B:1528:A:N7	2.33	0.61
1:B:1632:A:H2	1:B:1633:G:C5	2.17	0.61
1:B:1803:A:C5'	1:B:1804:C:C1'	2.79	0.61
1:B:1938:A:C4'	1:B:1941:C:N4	2.63	0.61
1:B:1971:U:O3'	1:B:2443:C:OP2	2.18	0.61
1:B:1992:G:H1'	1:B:1993:U:C5	2.36	0.61
1:B:2032:G:C1'	1:B:2032:G:C4	2.76	0.61
1:B:2114:A:C1'	1:B:2114:A:C4	2.76	0.61
1:B:2117:A:C1'	1:B:2117:A:C4	2.75	0.61
1:B:2125:G:C1'	1:B:2125:G:C4	2.78	0.61
1:B:2147:A:C1'	1:B:2147:A:C8	2.76	0.61
1:B:2203:U:P	1:B:2204:G:C5'	2.89	0.61
1:B:2400:G:OP1	1:B:2408:U:C5'	2.47	0.61
1:B:2496:C:C3'	1:B:2497:A:H5"	2.28	0.61
1:B:2685:G:C1'	1:B:2685:G:C4	2.79	0.61
1:B:2868:A:H8	1:B:2871:U:H2'	0.57	0.61
1:B:11:C:O2'	1:B:1195:G:C3'	2.49	0.61
1:B:29:U:OP1	1:B:1252:G:C4'	2.48	0.61
1:B:319:G:H1'	1:B:320:A:C4'	2.30	0.61
1:B:322:A:H5"	1:B:338:G:C5	2.34	0.61
1:B:368:A:C1'	1:B:368:A:C4	2.77	0.61
1:B:416:U:O2'	1:B:417:C:C4'	2.46	0.61
1:B:478:A:C4'	1:B:478:A:H5"	2.17	0.61
1:B:757:G:H1'	1:B:1951:U:H5"	1.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:G:C2	1:B:788:A:O2'	2.54	0.61
1:B:805:G:C3'	1:B:806:C:C5'	2.79	0.61
1:B:1004:U:O3'	1:B:1010:A:C8	2.53	0.61
1:B:1047:G:H5"	1:B:1049:C:O2'	1.94	0.61
1:B:1211:C:N4	1:B:1236:G:H1'	2.16	0.61
1:B:1213:A:C1'	1:B:1213:A:C8	2.76	0.61
1:B:1250:G:C1'	1:B:1250:G:C4	2.76	0.61
1:B:1266:G:C1'	1:B:1266:G:C4	2.76	0.61
1:B:1298:C:O5'	1:B:1339:G:C2	2.53	0.61
1:B:1302:A:H2'	1:B:1303:G:OP2	2.00	0.61
1:B:1495:A:C1'	1:B:1495:A:C8	2.76	0.61
1:B:1570:A:C1'	1:B:1570:A:C8	2.75	0.61
1:B:1571:A:C2	1:B:1572:A:C5'	2.83	0.61
1:B:1634:A:C1'	1:B:1634:A:C8	2.76	0.61
1:B:1678:A:C4'	1:B:1678:A:OP2	2.49	0.61
1:B:1723:G:C1'	1:B:1723:G:C4	2.78	0.61
1:B:1815:A:H2'	1:B:1816:C:C5'	2.30	0.61
1:B:2318:G:C1'	1:B:2318:G:C4	2.77	0.61
1:B:2530:A:C1'	1:B:2530:A:C8	2.76	0.61
1:B:2556:C:C4	1:B:2558:C:C5'	2.84	0.61
1:B:2824:C:H5'	1:B:2825:G:C8	2.36	0.61
1:B:2871:U:O2'	1:B:2872:A:C5'	2.48	0.61
1:B:15:G:H5'	1:B:1197:G:H1'	1.81	0.61
1:B:76:C:O2'	1:B:148:U:P	2.58	0.61
1:B:103:A:C1'	1:B:103:A:C8	2.77	0.61
1:B:159:G:H3'	1:B:160:A:H5'	1.83	0.61
1:B:298:G:C1'	1:B:298:G:C4	2.75	0.61
1:B:307:G:C1'	1:B:307:G:C4	2.76	0.61
1:B:453:A:N6	1:B:477:A:C6	2.69	0.61
1:B:482:A:N6	1:B:513:A:C2	2.69	0.61
1:B:867:C:O2	1:B:915:C:OP1	2.19	0.61
1:B:1128:G:H3'	1:B:2751:G:C3'	2.30	0.61
1:B:1128:G:H21	1:B:2752:C:P	2.23	0.61
1:B:1265:A:C1'	1:B:1265:A:C8	2.76	0.61
1:B:1364:G:C1'	1:B:1364:G:C4	2.77	0.61
1:B:1450:G:C1'	1:B:1467:U:O4	2.35	0.61
1:B:1459:G:N2	1:B:1543:G:O2'	2.34	0.61
1:B:1514:G:C1'	1:B:1514:G:C4	2.78	0.61
1:B:1584:U:C2	1:B:1635:A:C5'	2.84	0.61
1:B:1676:A:H3'	1:B:1677:A:C5'	2.29	0.61
1:B:1751:U:H5'	1:B:1752:C:C5'	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1802:A:N6	1:B:1813:G:C2'	2.64	0.61
1:B:1803:A:N6	1:B:1897:G:OP1	2.33	0.61
1:B:1939:5MU:H71	1:B:1940:U:OP1	2.00	0.61
1:B:2163:A:H2'	1:B:2164:C:OP1	2.01	0.61
1:B:2388:A:C1'	1:B:2388:A:C8	2.75	0.61
1:B:2504:U:H4'	1:B:2505:G:P	2.40	0.61
1:B:2652:C:H2'	1:B:2653:U:H5'	1.82	0.61
1:B:2726:A:C5'	1:B:2727:A:H4'	2.30	0.61
1:B:28:A:C1'	1:B:28:A:C4	2.73	0.61
1:B:75:G:C4'	1:B:113:U:C5'	2.62	0.61
1:B:89:A:OP1	1:B:91:A:O2'	2.16	0.61
1:B:97:C:C5'	1:B:98:G:OP2	2.49	0.61
1:B:223:A:H4'	1:B:224:U:O5'	2.01	0.61
1:B:267:C:O2'	1:B:269:C:H1'	2.01	0.61
1:B:388:G:C1'	1:B:388:G:C4	2.76	0.61
1:B:449:A:O3'	1:B:449:A:C2'	2.48	0.61
1:B:570:G:N1	1:B:2044:C:C5	2.69	0.61
1:B:636:G:C1'	1:B:636:G:C4	2.77	0.61
1:B:822:G:H4'	1:B:2629:U:C5	2.35	0.61
1:B:837:C:C2'	1:B:976:G:C8	2.84	0.61
1:B:926:G:H3'	1:B:927:A:H4'	1.55	0.61
1:B:1026:G:O2'	1:B:1027:A:H1'	1.99	0.61
1:B:1046:A:C1'	1:B:1046:A:C8	2.76	0.61
1:B:1416:G:H21	1:B:1465:G:H2'	1.66	0.61
1:B:1584:U:C5	1:B:1587:G:O6	2.53	0.61
1:B:1755:A:C1'	1:B:1755:A:C8	2.77	0.61
1:B:1848:A:C1'	1:B:1848:A:C8	2.77	0.61
1:B:1885:A:C4'	1:B:1886:U:H5	2.09	0.61
1:B:1954:G:H4'	1:B:1955:U:C6	2.36	0.61
1:B:2335:A:N7	1:B:2336:A:H1'	2.16	0.61
1:B:2376:A:H4'	1:B:2414:G:OP1	2.01	0.61
1:B:2450:A:C1'	1:B:2450:A:C8	2.76	0.61
1:B:23:G:H1'	1:B:508:A:C5'	2.23	0.60
1:B:75:G:H5"	1:B:113:U:O2'	2.01	0.60
1:B:77:G:C5'	1:B:99:U:H1'	2.31	0.60
1:B:100:U:C4	1:B:118:A:O2'	2.54	0.60
1:B:110:G:H3'	1:B:171:U:P	2.40	0.60
1:B:144:A:C5'	1:B:1327:A:H5"	2.31	0.60
1:B:187:G:O2'	1:B:218:A:H5"	2.01	0.60
1:B:257:C:C2	1:B:258:G:H4'	2.36	0.60
1:B:263:G:C8	1:B:362:A:P	2.94	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:529:A:OP2	1:B:973:A:H5'	2.01	0.60
1:B:598:U:H5'	1:B:937:C:H5'	0.67	0.60
1:B:805:G:C5'	1:B:1254:A:N3	2.64	0.60
1:B:806:C:C5'	1:B:1252:G:OP1	2.49	0.60
1:B:864:G:N2	1:B:910:A:O4'	2.34	0.60
1:B:1032:A:H5'	1:B:1128:G:OP1	2.01	0.60
1:B:1130:U:C3'	1:B:2752:C:C3'	2.79	0.60
1:B:1205:A:C1'	1:B:1205:A:C8	2.76	0.60
1:B:1272:A:H2'	1:B:1273:U:H5'	1.83	0.60
1:B:1285:A:C1'	1:B:1285:A:C4	2.75	0.60
1:B:1417:C:C2	1:B:1635:A:N3	2.69	0.60
1:B:1474:U:C2	1:B:1475:G:H5"	2.36	0.60
1:B:1521:G:N7	1:B:1522:A:H1'	2.12	0.60
1:B:1524:G:C1'	1:B:1524:G:C4	2.75	0.60
1:B:1582:C:C1'	1:B:1633:G:O3'	2.45	0.60
1:B:1604:C:H2'	1:B:1605:C:OP1	2.00	0.60
1:B:1671:U:O2'	1:B:1989:G:OP1	2.15	0.60
1:B:1675:C:C3'	1:B:1678:A:H5'	2.30	0.60
1:B:1702:G:C5'	1:B:1989:G:C8	2.84	0.60
1:B:1753:G:C1'	1:B:1753:G:C8	2.77	0.60
1:B:1853:A:C4	1:B:1888:G:C8	2.88	0.60
1:B:1932:A:C5'	1:B:1935:G:OP2	2.48	0.60
1:B:1933:G:O3'	1:B:1935:G:C5'	2.48	0.60
1:B:2365:G:P	1:B:2366:A:C2'	2.86	0.60
1:B:2430:A:C1'	1:B:2430:A:C8	2.78	0.60
1:B:2685:G:N2	1:B:2723:C:O5'	2.34	0.60
1:B:2799:A:N3	1:B:2894:G:OP2	2.34	0.60
1:B:2808:G:P	1:B:2890:G:N2	2.73	0.60
1:B:2834:G:H5"	1:B:2888:C:OP1	2.00	0.60
1:B:75:G:O2'	1:B:118:A:O3'	2.19	0.60
1:B:99:U:H3'	1:B:102:U:N1	2.15	0.60
1:B:100:U:O5'	1:B:101:A:C8	2.53	0.60
1:B:177:G:C8	1:B:178:G:N2	2.68	0.60
1:B:229:C:C2	1:B:230:G:N7	2.69	0.60
1:B:264:C:OP1	1:B:370:G:H5'	1.99	0.60
1:B:320:A:C3'	1:B:324:A:C2'	2.76	0.60
1:B:329:G:C1'	1:B:329:G:C4	2.77	0.60
1:B:329:G:C2	1:B:330:A:N7	2.69	0.60
1:B:362:A:C4'	1:B:428:A:H3'	2.22	0.60
1:B:386:G:C1'	1:B:386:G:C4	2.77	0.60
1:B:435:C:C2'	1:B:437:U:H5	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:C4	1:B:2039:U:P	2.95	0.60
1:B:614:A:C1'	1:B:614:A:C8	2.76	0.60
1:B:930:G:OP2	1:B:931:U:C3'	2.49	0.60
1:B:1028:A:C1'	1:B:1028:A:C8	2.75	0.60
1:B:1040:A:H61	1:B:1045:C:C2'	2.14	0.60
1:B:1299:G:C8	1:B:1626:A:C5	2.88	0.60
1:B:1302:A:O3'	1:B:1303:G:H8	1.80	0.60
1:B:1954:G:O3'	1:B:1955:U:C6	2.54	0.60
1:B:1961:C:HO2'	1:B:1962:C:P	2.24	0.60
1:B:2132:U:O4	1:B:2156:G:N2	2.34	0.60
1:B:2253:G:H4'	1:B:2254:C:C6	2.35	0.60
1:B:2308:G:C1'	1:B:2308:G:C4	2.77	0.60
1:B:2311:A:C1'	1:B:2311:A:C8	2.76	0.60
1:B:2327:A:C1'	1:B:2327:A:C8	2.77	0.60
1:B:2365:G:O5'	1:B:2366:A:H2'	2.01	0.60
1:B:2382:G:C3'	1:B:2383:G:H8	2.14	0.60
1:B:2473:U:H2'	1:B:2473:U:O2	2.01	0.60
1:B:15:G:C4	1:B:16:C:H5'	2.36	0.60
1:B:75:G:O5'	1:B:113:U:O2'	2.18	0.60
1:B:77:G:C8	1:B:99:U:O2'	2.50	0.60
1:B:92:U:O2'	1:B:498:G:C3'	2.47	0.60
1:B:120:U:C4	1:B:121:G:N7	2.69	0.60
1:B:124:G:N1	1:B:126:A:H4'	2.16	0.60
1:B:137:U:O2	1:B:1325:U:H5"	1.99	0.60
1:B:139:U:N3	1:B:1551:A:H4'	2.16	0.60
1:B:264:C:H5"	1:B:369:U:C1'	2.30	0.60
1:B:270:A:C1'	1:B:270:A:C8	2.76	0.60
1:B:363:G:OP1	1:B:429:A:O5'	2.18	0.60
1:B:510:C:H5"	1:B:511:U:C1'	2.32	0.60
1:B:530:G:OP1	1:B:564:C:N4	2.34	0.60
1:B:588:U:O3'	1:B:589:U:H6	1.78	0.60
1:B:776:G:H5'	1:B:777:G:O4'	2.02	0.60
1:B:801:G:N2	1:B:1253:A:H62	1.96	0.60
1:B:803:U:P	1:B:1254:A:P	2.99	0.60
1:B:805:G:C1'	1:B:805:G:C4	2.78	0.60
1:B:1252:G:H2'	1:B:1252:G:N3	2.17	0.60
1:B:1392:A:C8	1:B:1393:A:H5'	2.36	0.60
1:B:1449:G:C5'	1:B:1587:G:C5'	2.76	0.60
1:B:1459:G:C1'	1:B:1459:G:C4	2.75	0.60
1:B:1551:A:H62	1:B:1553:A:C5'	2.14	0.60
1:B:1614:A:C1'	1:B:1614:A:C8	2.76	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1780:A:C5	1:B:2544:G:H1'	2.36	0.60
1:B:1855:U:C2'	1:B:1884:G:C3'	2.76	0.60
1:B:1950:G:N2	1:B:1951:U:C2'	2.64	0.60
1:B:1972:G:P	1:B:2443:C:C5	2.94	0.60
1:B:2198:A:C1'	1:B:2198:A:C8	2.75	0.60
1:B:2428:G:C1'	1:B:2428:G:C4	2.76	0.60
1:B:2770:G:C1'	1:B:2770:G:C8	2.79	0.60
1:B:2823:A:H2'	1:B:2824:C:O4'	2.01	0.60
1:B:2868:A:N7	1:B:2871:U:C3'	2.64	0.60
1:B:2893:A:C1'	1:B:2893:A:C8	2.77	0.60
1:B:15:G:O2'	1:B:1198:U:C4'	2.49	0.60
1:B:52:A:C5'	1:B:52:A:H4'	2.14	0.60
1:B:60:G:O3'	1:B:60:G:C2'	2.47	0.60
1:B:73:A:H5"	1:B:113:U:C1'	2.24	0.60
1:B:207:A:C1'	1:B:207:A:C8	2.78	0.60
1:B:218:A:C1'	1:B:218:A:C8	2.76	0.60
1:B:346:A:C1'	1:B:346:A:C8	2.77	0.60
1:B:451:U:O4	1:B:464:U:C5'	2.49	0.60
1:B:458:G:C1'	1:B:458:G:C4	2.78	0.60
1:B:489:G:C8	1:B:490:C:C4	2.87	0.60
1:B:566:U:C5	1:B:836:G:C4'	2.81	0.60
1:B:585:G:C5'	1:B:1196:C:H4'	2.31	0.60
1:B:706:A:O3'	1:B:706:A:C2'	2.49	0.60
1:B:776:G:O3'	1:B:776:G:C2'	2.47	0.60
1:B:803:U:P	1:B:1253:A:H4'	2.41	0.60
1:B:820:A:H2'	1:B:2628:C:O2	2.01	0.60
1:B:899:A:O5'	1:B:900:A:OP1	2.19	0.60
1:B:990:A:C1'	1:B:990:A:C4	2.75	0.60
1:B:1116:G:H2'	1:B:1117:C:C1'	2.32	0.60
1:B:1234:U:O5'	1:B:1235:G:C5'	2.49	0.60
1:B:1283:G:H3'	1:B:2012:G:H3'	1.84	0.60
1:B:1312:U:O5'	1:B:1641:A:H2	1.81	0.60
1:B:1359:A:OP2	1:B:1371:G:N7	2.34	0.60
1:B:1395:A:C1'	1:B:1395:A:C8	2.76	0.60
1:B:1419:A:C1'	1:B:1419:A:C8	2.76	0.60
1:B:1426:G:OP1	1:B:1566:A:O2'	2.18	0.60
1:B:1428:C:H1'	1:B:1630:A:H1'	1.82	0.60
1:B:1438:U:C2'	1:B:1439:A:O5'	2.49	0.60
1:B:1545:A:C1'	1:B:1545:A:C8	2.75	0.60
1:B:1545:A:H1'	1:B:1546:G:C2	2.36	0.60
1:B:1627:G:O2'	1:B:1641:A:C2'	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1653:G:C1'	1:B:1653:G:C4	2.77	0.60
1:B:1653:G:C3'	1:B:1654:A:C5'	2.79	0.60
1:B:1671:U:C4	1:B:1672:A:C5'	2.80	0.60
1:B:1815:A:H2'	1:B:1817:G:N2	2.11	0.60
1:B:1856:U:HO5'	1:B:1886:U:C5'	2.09	0.60
1:B:2033:A:C1'	1:B:2033:A:C8	2.76	0.60
1:B:2157:G:C1'	1:B:2157:G:C4	2.77	0.60
1:B:2167:U:O3'	1:B:2168:G:H3'	2.01	0.60
1:B:2243:U:H2'	1:B:2244:U:C5'	2.31	0.60
1:B:2451:A:N1	1:B:2563:U:C5'	2.65	0.60
1:B:2468:A:C1'	1:B:2468:A:C4	2.75	0.60
1:B:2498:5MC:HM53	1:B:2657:A:O3'	2.01	0.60
1:B:2555:U:H1'	1:B:2556:C:P	2.41	0.60
1:B:2654:A:C4	1:B:2655:G:N2	2.68	0.60
1:B:2682:A:C2'	1:B:2720:U:HO2'	2.15	0.60
1:B:9:G:O2'	1:B:526:A:H4'	2.00	0.60
1:B:13:A:C1'	1:B:13:A:C8	2.76	0.60
1:B:13:A:C2'	1:B:584:C:N4	2.64	0.60
1:B:91:A:C1'	1:B:91:A:C8	2.79	0.60
1:B:93:G:C3'	1:B:498:G:C3'	2.55	0.60
1:B:196:A:C1'	1:B:196:A:C8	2.76	0.60
1:B:221:A:C1'	1:B:221:A:C4	2.78	0.60
1:B:270:A:H1'	1:B:271:G:H5'	1.81	0.60
1:B:411:G:H21	1:B:412:A:C5'	2.14	0.60
1:B:482:A:N6	1:B:512:G:N3	2.49	0.60
1:B:598:U:C4'	1:B:937:C:H5"	2.22	0.60
1:B:797:G:OP1	1:B:1253:A:C2'	2.47	0.60
1:B:886:A:C1'	1:B:886:A:C8	2.75	0.60
1:B:900:A:O3'	1:B:901:C:H6	1.85	0.60
1:B:901:C:C5'	1:B:902:C:H6	2.04	0.60
1:B:931:U:OP2	1:B:984:A:OP1	2.18	0.60
1:B:1020:A:H4'	1:B:1026:G:H22	1.66	0.60
1:B:1033:U:O2'	1:B:1034:G:C8	2.54	0.60
1:B:1123:C:N4	1:B:1126:A:C5	2.64	0.60
1:B:1354:A:C1'	1:B:1354:A:C8	2.75	0.60
1:B:1430:C:C2'	1:B:1566:A:H61	2.14	0.60
1:B:1433:A:C1'	1:B:1433:A:C8	2.76	0.60
1:B:1477:A:C2	1:B:1515:A:N6	2.54	0.60
1:B:1602:U:OP2	1:B:1602:U:H6	1.85	0.60
1:B:1674:G:O5'	1:B:1678:A:C6	2.54	0.60
1:B:1791:A:OP1	1:B:2442:C:C4'	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1847:A:C5'	1:B:1847:A:O4'	2.49	0.60
1:B:1933:G:C2'	1:B:1939:5MU:C5'	2.79	0.60
1:B:1944:U:O2'	1:B:2071:A:OP1	2.16	0.60
1:B:2042:A:C1'	1:B:2042:A:C8	2.76	0.60
1:B:2051:A:C1'	1:B:2051:A:C4	2.76	0.60
1:B:2059:A:H1'	1:B:2445:G:C4'	2.32	0.60
1:B:2061:G:C1'	1:B:2061:G:C8	2.78	0.60
1:B:2113:U:C4'	1:B:2113:U:H5"	2.17	0.60
1:B:2346:A:O2'	1:B:2347:C:OP2	2.13	0.60
1:B:2401:U:OP1	1:B:2407:A:OP2	2.18	0.60
1:B:2656:U:OP1	1:B:2656:U:C6	2.53	0.60
1:B:2689:U:O3'	1:B:2691:C:N4	2.34	0.60
1:B:2725:A:C1'	1:B:2725:A:C8	2.77	0.60
1:B:2738:A:C8	1:B:2741:A:H2	2.16	0.60
1:B:2764:A:C1'	1:B:2764:A:C8	2.77	0.60
1:B:1:G:C8	1:B:2904:U:N3	2.69	0.60
1:B:26:G:O3'	1:B:26:G:C2'	2.49	0.60
1:B:100:U:OP1	1:B:101:A:O4'	2.19	0.60
1:B:120:U:O4	1:B:121:G:N7	2.35	0.60
1:B:141:G:H5'	1:B:142:A:OP2	2.01	0.60
1:B:189:G:H3'	1:B:190:A:O2'	2.01	0.60
1:B:237:C:O2'	1:B:428:A:N6	2.35	0.60
1:B:255:A:H8	1:B:275:C:O2'	1.75	0.60
1:B:257:C:H2'	1:B:258:G:H5"	1.79	0.60
1:B:560:C:H2'	1:B:561:G:C5'	2.31	0.60
1:B:585:G:H2'	1:B:1195:G:O2'	2.01	0.60
1:B:728:G:H1'	1:B:729:G:O4'	2.01	0.60
1:B:800:A:N3	1:B:800:A:OP2	2.35	0.60
1:B:904:G:OP2	1:B:906:U:O4	2.20	0.60
1:B:906:U:O2'	1:B:907:G:H8	1.84	0.60
1:B:920:A:C8	1:B:921:C:H1'	2.37	0.60
1:B:930:G:H5"	1:B:931:U:OP2	2.02	0.60
1:B:1019:U:O2	1:B:1028:A:H5'	1.98	0.60
1:B:1023:U:O2'	1:B:2465:C:C5	2.47	0.60
1:B:1045:C:O4'	1:B:1112:G:O6	2.19	0.60
1:B:1202:G:N3	1:B:1203:U:C6	2.69	0.60
1:B:1223:G:C1'	1:B:1223:G:C4	2.77	0.60
1:B:1308:A:C1'	1:B:1308:A:C4	2.76	0.60
1:B:1427:A:N1	1:B:1574:C:C1'	2.64	0.60
1:B:1527:G:N3	1:B:1529:G:H5'	2.16	0.60
1:B:1543:G:N2	1:B:1544:A:C8	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1609:A:C1'	1:B:1609:A:C8	2.78	0.60
1:B:1714:U:H2'	1:B:1737:G:C2	2.37	0.60
1:B:1781:U:C5	1:B:1782:U:O4	2.54	0.60
1:B:1968:G:C1'	1:B:1968:G:C4	2.78	0.60
1:B:2040:G:OP1	1:B:2041:U:C4'	2.50	0.60
1:B:2308:G:H8	1:B:2308:G:OP2	1.84	0.60
1:B:2319:G:C1'	1:B:2319:G:C4	2.77	0.60
1:B:2346:A:H8	1:B:2382:G:N2	1.98	0.60
1:B:2378:A:P	1:B:2394:C:C6	2.95	0.60
1:B:2478:A:C1'	1:B:2478:A:C8	2.75	0.60
1:B:2583:G:C1'	1:B:2583:G:C4	2.78	0.60
1:B:2754:U:O2'	1:B:2755:C:C5'	2.49	0.60
1:B:2868:A:C1'	1:B:2868:A:C4	2.74	0.60
1:B:69:C:C4'	1:B:85:G:H5"	2.29	0.60
1:B:78:U:O3'	1:B:126:A:N6	2.34	0.60
1:B:197:A:OP2	1:B:198:C:C5	2.55	0.60
1:B:267:C:C1'	1:B:269:C:C6	2.71	0.60
1:B:372:G:N7	1:B:373:U:C5	2.70	0.60
1:B:463:G:C1'	1:B:463:G:C4	2.76	0.60
1:B:478:A:C4'	1:B:478:A:H5'	2.17	0.60
1:B:501:A:N3	1:B:505:A:O5'	2.34	0.60
1:B:547:A:C1'	1:B:547:A:C8	2.76	0.60
1:B:670:A:H4'	1:B:671:C:H5"	1.83	0.60
1:B:685:A:C5'	1:B:788:A:C8	2.85	0.60
1:B:715:A:C1'	1:B:715:A:C8	2.76	0.60
1:B:1018:U:OP1	1:B:2752:C:O4'	2.18	0.60
1:B:1032:A:C1'	1:B:1032:A:C8	2.77	0.60
1:B:1048:A:C5'	1:B:1049:C:N1	2.60	0.60
1:B:1050:A:OP2	1:B:1051:G:O5'	2.19	0.60
1:B:1111:A:C1'	1:B:1111:A:C8	2.75	0.60
1:B:1131:G:C5'	1:B:2752:C:C2	2.83	0.60
1:B:1287:A:C1'	1:B:1287:A:C8	2.75	0.60
1:B:1451:C:H2'	1:B:1458:U:C4	2.37	0.60
1:B:1609:A:C8	1:B:1621:U:O2'	2.54	0.60
1:B:1610:A:H61	1:B:1613:G:H3'	1.65	0.60
1:B:1613:G:C1'	1:B:1613:G:C4	2.79	0.60
1:B:1616:A:C1'	1:B:1616:A:C8	2.76	0.60
1:B:1625:C:H4'	1:B:1643:G:C5'	2.32	0.60
1:B:1687:G:C8	1:B:1687:G:OP2	2.54	0.60
1:B:1689:A:C2	1:B:1692:U:C5	2.89	0.60
1:B:1802:A:C1'	1:B:1802:A:C8	2.78	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1854:A:C4'	1:B:1888:G:H1'	2.32	0.60
1:B:1854:A:P	1:B:1888:G:C8	2.94	0.60
1:B:1930:G:O5'	1:B:1934:C:H1'	2.02	0.60
1:B:2253:G:C1'	1:B:2253:G:C4	2.77	0.60
1:B:2322:A:H5"	1:B:2322:A:H4'	1.80	0.60
1:B:2346:A:C8	1:B:2382:G:N2	2.70	0.60
1:B:2365:G:P	1:B:2366:A:N3	2.75	0.60
1:B:2433:A:C1'	1:B:2433:A:C8	2.76	0.60
1:B:2652:C:HO3'	1:B:2653:U:P	2.24	0.60
1:B:2842:G:O6	1:B:2847:U:O4	2.19	0.60
1:B:17:G:O2'	1:B:809:G:N2	2.26	0.60
1:B:111:A:O5'	1:B:111:A:OP2	2.20	0.60
1:B:207:A:C1'	1:B:207:A:C4	2.74	0.60
1:B:223:A:OP2	1:B:223:A:C2	2.55	0.60
1:B:269:C:N3	1:B:270:A:H5"	2.17	0.60
1:B:389:G:C1'	1:B:389:G:C4	2.76	0.60
1:B:411:G:HO2'	1:B:2406:A:H8	0.67	0.60
1:B:423:A:C2'	1:B:424:G:H5"	2.24	0.60
1:B:457:A:C4'	1:B:458:G:O2'	2.50	0.60
1:B:684:G:C4'	1:B:776:G:O5'	2.50	0.60
1:B:757:G:C1'	1:B:1951:U:H5'	2.28	0.60
1:B:802:A:C3'	1:B:1254:A:C4'	2.80	0.60
1:B:856:G:OP1	1:B:857:G:H5"	1.99	0.60
1:B:856:G:H4'	1:B:857:G:P	2.39	0.60
1:B:861:A:OP1	1:B:862:G:O4'	2.19	0.60
1:B:900:A:C1'	1:B:900:A:C8	2.76	0.60
1:B:914:G:C1'	1:B:914:G:C4	2.78	0.60
1:B:920:A:C5'	1:B:921:C:C6	2.85	0.60
1:B:926:G:O3'	1:B:927:A:O5'	2.20	0.60
1:B:927:A:P	1:B:928:A:H5'	2.42	0.60
1:B:990:A:C8	1:B:992:C:OP2	2.54	0.60
1:B:1006:C:C4'	1:B:1007:C:C5'	2.80	0.60
1:B:1128:G:H3'	1:B:2752:C:OP1	2.01	0.60
1:B:1212:G:C1'	1:B:1212:G:C4	2.77	0.60
1:B:1275:A:P	1:B:1288:G:C5'	2.86	0.60
1:B:1451:C:O5'	1:B:1526:C:O2	2.19	0.60
1:B:1464:G:N3	1:B:1466:U:O2'	2.30	0.60
1:B:1552:A:OP2	1:B:1552:A:C8	2.51	0.60
1:B:1568:G:C1'	1:B:1568:G:C4	2.76	0.60
1:B:1608:A:C2	1:B:1622:G:C5'	2.63	0.60
1:B:1687:G:OP2	1:B:1687:G:H8	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1696:G:O5'	1:B:2703:C:C4	2.54	0.60
1:B:1934:C:OP1	1:B:1972:G:N2	2.34	0.60
1:B:2014:A:C1'	1:B:2014:A:C8	2.76	0.60
1:B:2268:A:HO2'	1:B:2269:G:H8	1.47	0.60
1:B:2382:G:C5'	1:B:2382:G:O4'	2.48	0.60
1:B:2453:A:C1'	1:B:2453:A:C8	2.78	0.60
1:B:2532:G:H2'	1:B:2533:U:C6	2.37	0.60
1:B:23:G:OP2	1:B:512:G:OP2	2.20	0.60
1:B:148:U:C5'	1:B:149:A:O5'	2.49	0.60
1:B:195:A:O2'	1:B:196:A:C8	2.54	0.60
1:B:202:U:HO2'	1:B:204:A:C1'	2.09	0.60
1:B:263:G:C1'	1:B:362:A:H5"	2.30	0.60
1:B:274:C:C4'	1:B:275:C:OP2	2.48	0.60
1:B:294:A:C1'	1:B:294:A:C8	2.77	0.60
1:B:411:G:C5'	1:B:2406:A:H2'	2.31	0.60
1:B:429:A:C5'	1:B:429:A:O4'	2.48	0.60
1:B:443:A:C1'	1:B:443:A:C8	2.75	0.60
1:B:482:A:N6	1:B:512:G:H21	2.00	0.60
1:B:532:A:C1'	1:B:532:A:C8	2.75	0.60
1:B:840:C:H1'	1:B:963:U:C5'	2.31	0.60
1:B:857:G:N3	1:B:912:C:H2'	2.17	0.60
1:B:1110:G:C1'	1:B:1110:G:C4	2.76	0.60
1:B:1136:G:C2'	1:B:1137:G:C5'	2.62	0.60
1:B:1142:A:C1'	1:B:1142:A:C4	2.77	0.60
1:B:1289:C:C5'	1:B:1649:G:P	2.84	0.60
1:B:1419:A:OP2	1:B:1419:A:H8	1.84	0.60
1:B:1510:G:C1'	1:B:1510:G:C4	2.77	0.60
1:B:1565:C:C1'	1:B:1566:A:H5'	2.32	0.60
1:B:1583:A:C4'	1:B:1584:U:O5'	2.50	0.60
1:B:1587:G:C6	1:B:1636:U:OP1	2.53	0.60
1:B:1696:G:H2'	1:B:2703:C:P	2.41	0.60
1:B:1750:G:C5'	1:B:1753:G:OP2	2.48	0.60
1:B:1758:U:O2'	1:B:1760:C:C6	2.52	0.60
1:B:1854:A:C2	1:B:1858:A:N7	2.69	0.60
1:B:2016:U:H3'	1:B:2017:U:C5	2.37	0.60
1:B:2092:U:C3'	1:B:2093:G:OP1	2.50	0.60
1:B:2173:A:C1'	1:B:2173:A:C8	2.77	0.60
1:B:2382:G:C1'	1:B:2382:G:C4	2.78	0.60
1:B:2563:U:H5'	1:B:2564:A:OP1	2.02	0.60
1:B:2732:G:C1'	1:B:2732:G:C4	2.77	0.60
1:B:2894:G:C1'	1:B:2894:G:C4	2.78	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:A:HO3'	1:B:29:U:P	2.20	0.60
1:B:72:U:H5"	1:B:100:U:N3	2.17	0.60
1:B:91:A:C1'	1:B:91:A:C4	2.75	0.60
1:B:98:G:H5'	1:B:103:A:C5'	2.31	0.60
1:B:110:G:H3'	1:B:111:A:OP2	2.01	0.60
1:B:206:U:O5'	1:B:207:A:O5'	2.19	0.60
1:B:451:U:C5	1:B:460:A:H5'	2.34	0.60
1:B:861:A:C5'	1:B:861:A:C3'	2.75	0.60
1:B:920:A:C1'	1:B:920:A:C4	2.74	0.60
1:B:1288:G:C6	1:B:1289:C:N4	2.70	0.60
1:B:1321:A:C1'	1:B:1321:A:C8	2.77	0.60
1:B:1425:G:C4'	1:B:1567:G:OP1	2.50	0.60
1:B:1426:G:OP1	1:B:1566:A:C2'	2.50	0.60
1:B:1494:A:C8	1:B:1494:A:OP2	2.54	0.60
1:B:1520:U:C2	1:B:1536:C:H4'	2.36	0.60
1:B:1576:U:C5	1:B:1580:A:N6	2.68	0.60
1:B:1740:G:O5'	1:B:1740:G:N3	2.35	0.60
1:B:1885:A:C1'	1:B:1885:A:C8	2.78	0.60
1:B:1905:C:C2	1:B:1928:A:H3'	2.37	0.60
1:B:1928:A:C5'	1:B:1937:A:P	2.90	0.60
1:B:1934:C:C4'	1:B:1935:G:P	2.89	0.60
1:B:1954:G:H3'	1:B:1955:U:C5	2.37	0.60
1:B:1963:U:O2	1:B:1964:G:H4'	2.02	0.60
1:B:2007:U:H5"	1:B:2846:G:C5	2.36	0.60
1:B:2022:U:C3'	1:B:2023:C:C5'	2.60	0.60
1:B:2060:A:N6	1:B:2448:A:O2'	2.35	0.60
1:B:2161:C:O2	1:B:2168:G:C6	2.55	0.60
1:B:2281:A:H4'	1:B:2282:G:O5'	2.02	0.60
1:B:2284:A:H8	1:B:2388:A:H5'	1.65	0.60
1:B:2653:U:H3'	1:B:2654:A:H5"	1.84	0.60
1:B:2844:G:C8	1:B:2867:G:H5"	2.37	0.60
1:B:2850:A:O5'	1:B:2851:A:OP1	2.20	0.60
1:B:2871:U:C4'	1:B:2872:A:C5'	2.80	0.60
1:B:2879:A:C4'	1:B:2880:C:C6	2.85	0.60
1:B:100:U:O3'	1:B:101:A:C2	2.55	0.59
1:B:100:U:O4'	1:B:119:A:H4'	2.01	0.59
1:B:201:C:C2'	1:B:202:U:C3'	2.80	0.59
1:B:223:A:N7	1:B:260:G:OP2	2.34	0.59
1:B:242:G:C5'	1:B:255:A:OP2	2.49	0.59
1:B:465:G:C1'	1:B:465:G:C4	2.79	0.59
1:B:538:A:H5"	1:B:969:G:H5'	0.77	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:577:G:C1’	1:B:577:G:C4	2.77	0.59
1:B:586:A:OP1	1:B:1196:C:H6	1.84	0.59
1:B:670:A:C4’	1:B:670:A:H5’	2.18	0.59
1:B:674:G:H5’	1:B:1249:U:H5’	1.83	0.59
1:B:806:C:O3’	1:B:808:G:N7	2.35	0.59
1:B:864:G:C1’	1:B:864:G:C8	2.77	0.59
1:B:941:A:C5’	1:B:947:A:C4’	2.80	0.59
1:B:990:A:C1’	1:B:990:A:C8	2.78	0.59
1:B:1021:A:OP2	1:B:1134:A:OP2	2.20	0.59
1:B:1232:G:C5’	1:B:1237:A:OP1	2.42	0.59
1:B:1510:G:C5’	1:B:1511:G:H5’	2.31	0.59
1:B:1696:G:C4’	1:B:1697:G:H3’	2.31	0.59
1:B:1854:A:OP1	1:B:1888:G:C3’	2.29	0.59
1:B:1926:U:P	1:B:1927:A:H62	2.24	0.59
1:B:1926:U:HO2’	1:B:1927:A:C5’	2.15	0.59
1:B:1938:A:C1’	1:B:1938:A:C4	2.79	0.59
1:B:1953:A:C1’	1:B:1953:A:C8	2.77	0.59
1:B:1964:G:H2’	1:B:1965:C:H3’	1.83	0.59
1:B:1992:G:HO2’	1:B:1993:U:H6	1.40	0.59
1:B:2126:A:C4’	1:B:2127:G:H5”	2.32	0.59
1:B:2322:A:C5’	1:B:2322:A:HO5’	2.09	0.59
1:B:2346:A:C1’	1:B:2346:A:C8	2.76	0.59
1:B:2667:C:O2’	1:B:2668:G:P	2.59	0.59
1:B:2690:U:H4’	1:B:2727:A:N9	2.17	0.59
1:B:2871:U:O4’	1:B:2872:A:C8	2.55	0.59
1:B:67:U:H3’	1:B:68:G:C5’	2.31	0.59
1:B:79:C:H5’	1:B:126:A:N6	2.17	0.59
1:B:137:U:H1’	1:B:1325:U:C3’	2.29	0.59
1:B:221:A:H4’	1:B:278:A:P	2.32	0.59
1:B:244:A:C4	1:B:249:C:OP1	2.55	0.59
1:B:529:A:C4	1:B:947:A:O2’	2.55	0.59
1:B:672:C:H3’	1:B:673:C:H6	1.67	0.59
1:B:674:G:H5’	1:B:1249:U:O3’	2.02	0.59
1:B:1047:G:C1’	1:B:1047:G:C8	2.78	0.59
1:B:1307:A:C4’	1:B:1308:A:O5’	2.44	0.59
1:B:1307:A:H5’	1:B:1308:A:H4’	1.84	0.59
1:B:1366:A:C1’	1:B:1366:A:C8	2.76	0.59
1:B:1393:A:C1’	1:B:1393:A:C8	2.77	0.59
1:B:1426:G:C5’	1:B:1572:A:N9	2.62	0.59
1:B:1580:A:C1’	1:B:1580:A:C8	2.76	0.59
1:B:1586:A:C1’	1:B:1586:A:C8	2.78	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1689:A:C4	1:B:1692:U:C5	2.89	0.59
1:B:1780:A:H2	1:B:2543:G:N2	1.99	0.59
1:B:1851:U:C2	1:B:1856:U:H1'	2.36	0.59
1:B:1855:U:N1	1:B:1884:G:O2'	2.29	0.59
1:B:1900:A:C1'	1:B:1900:A:C8	2.76	0.59
1:B:2202:U:O3'	1:B:2204:G:P	2.60	0.59
1:B:2406:A:C1'	1:B:2406:A:C8	2.78	0.59
1:B:2426:A:C1'	1:B:2426:A:C8	2.77	0.59
1:B:2799:A:H5"	1:B:2800:A:C8	2.37	0.59
1:B:2869:G:O4'	1:B:2873:A:C5'	2.50	0.59
1:B:99:U:C1'	1:B:99:U:C6	2.83	0.59
1:B:199:A:H2'	1:B:200:U:C5'	2.27	0.59
1:B:432:A:O3'	1:B:432:A:C2'	2.47	0.59
1:B:574:A:N9	1:B:2039:U:H5"	2.17	0.59
1:B:674:G:C1'	1:B:674:G:C8	2.77	0.59
1:B:725:G:C1'	1:B:725:G:C4	2.79	0.59
1:B:752:A:C1'	1:B:752:A:C8	2.76	0.59
1:B:762:U:O3'	1:B:763:G:H5'	2.01	0.59
1:B:810:U:N1	1:B:1196:C:N4	2.49	0.59
1:B:839:U:C5'	1:B:961:C:N4	2.66	0.59
1:B:961:C:H5"	1:B:962:G:N9	2.15	0.59
1:B:981:A:C1'	1:B:981:A:C8	2.76	0.59
1:B:1025:G:C1'	1:B:1025:G:C8	2.77	0.59
1:B:1030:C:N4	1:B:1126:A:C8	2.70	0.59
1:B:1283:G:O3'	1:B:1283:G:H3'	1.92	0.59
1:B:1284:A:H5"	1:B:2012:G:C8	2.37	0.59
1:B:1301:A:C1'	1:B:1301:A:C8	2.75	0.59
1:B:1309:G:C1'	1:B:1309:G:C4	2.79	0.59
1:B:1311:G:H2'	1:B:1312:U:OP2	2.02	0.59
1:B:1347:A:P	1:B:1348:C:H5'	2.41	0.59
1:B:1348:C:C2'	1:B:1349:C:C6	2.85	0.59
1:B:1459:G:C1'	1:B:1461:C:OP2	2.50	0.59
1:B:1509:A:C1'	1:B:1509:A:C8	2.76	0.59
1:B:1630:A:OP2	1:B:1632:A:OP2	2.19	0.59
1:B:1856:U:O4	1:B:1885:A:H5"	2.01	0.59
1:B:1899:A:C1'	1:B:1899:A:C8	2.75	0.59
1:B:1934:C:OP1	1:B:1935:G:O5'	2.19	0.59
1:B:1940:U:O3'	1:B:2063:C:P	2.60	0.59
1:B:1965:C:O2	1:B:1965:C:H2'	2.02	0.59
1:B:2114:A:N3	1:B:2115:G:OP1	2.36	0.59
1:B:2185:U:H2'	1:B:2185:U:O2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2202:U:H2'	1:B:2204:G:C5'	2.32	0.59
1:B:2345:G:P	1:B:2380:C:C5	2.95	0.59
1:B:2378:A:OP1	1:B:2394:C:OP2	2.20	0.59
1:B:2400:G:P	1:B:2408:U:OP1	2.60	0.59
1:B:2502:G:O3'	1:B:2504:U:C5'	2.50	0.59
1:B:2627:G:C1'	1:B:2627:G:C4	2.77	0.59
1:B:2777:G:H21	1:B:2778:A:H1'	1.67	0.59
1:B:2867:G:C2'	1:B:2868:A:C2	2.85	0.59
1:B:75:G:O3'	1:B:119:A:O5'	2.19	0.59
1:B:75:G:N7	1:B:112:U:P	2.75	0.59
1:B:98:G:H5"	1:B:103:A:C2	2.36	0.59
1:B:99:U:C5'	1:B:99:U:O4'	2.49	0.59
1:B:103:A:C8	1:B:104:A:C5	2.91	0.59
1:B:240:C:O5'	1:B:275:C:O5'	2.20	0.59
1:B:367:G:C1'	1:B:367:G:C4	2.76	0.59
1:B:416:U:H2'	1:B:417:C:H6	1.68	0.59
1:B:423:A:H3'	1:B:424:G:H5"	0.60	0.59
1:B:505:A:C1'	1:B:505:A:C8	2.77	0.59
1:B:601:C:C4'	1:B:604:G:C5'	2.80	0.59
1:B:734:A:C1'	1:B:734:A:C8	2.76	0.59
1:B:747:5MU:OP1	1:B:748:G:O3'	2.20	0.59
1:B:828:U:C2	1:B:829:A:N7	2.70	0.59
1:B:972:A:C5'	1:B:972:A:O4'	2.49	0.59
1:B:1001:A:C1'	1:B:1001:A:C8	2.77	0.59
1:B:1047:G:O2'	1:B:1102:C:OP1	2.20	0.59
1:B:1067:A:O2'	1:B:1068:G:H5'	2.02	0.59
1:B:1286:A:H8	1:B:1286:A:OP2	1.85	0.59
1:B:1450:G:H2'	1:B:1526:C:H2'	1.84	0.59
1:B:1454:C:OP2	1:B:1524:G:O3'	2.20	0.59
1:B:1461:C:OP1	1:B:1543:G:O5'	2.19	0.59
1:B:1470:A:C1'	1:B:1470:A:C8	2.76	0.59
1:B:1523:U:O2'	1:B:1524:G:C4'	2.49	0.59
1:B:1523:U:P	1:B:1528:A:C4	2.95	0.59
1:B:1543:G:O2'	1:B:1544:A:OP1	2.20	0.59
1:B:1737:G:C8	1:B:1740:G:C5'	2.85	0.59
1:B:1737:G:C8	1:B:1740:G:O5'	2.56	0.59
1:B:1816:C:O2'	1:B:1817:G:O5'	2.19	0.59
1:B:2445:G:OP1	1:B:2555:U:O4'	2.20	0.59
1:B:2552:U:O5'	1:B:2553:G:N7	2.35	0.59
1:B:2563:U:O2'	1:B:2564:A:O3'	2.19	0.59
1:B:2690:U:C2	1:B:2691:C:H5'	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2704:C:N4	1:B:2705:A:C5	2.70	0.59
1:B:2733:A:C8	1:B:2778:A:C1'	2.86	0.59
1:B:2741:A:H1'	1:B:2742:G:N9	2.18	0.59
1:B:2775:G:C1'	1:B:2775:G:C4	2.74	0.59
1:B:2825:G:C1'	1:B:2825:G:C4	2.76	0.59
1:B:22:C:O3'	1:B:511:U:C2'	2.50	0.59
1:B:28:A:C2	1:B:674:G:O3'	2.49	0.59
1:B:63:A:C2'	1:B:64:A:C6	2.76	0.59
1:B:72:U:C2	1:B:114:U:C5'	2.86	0.59
1:B:83:A:N3	1:B:84:A:C5'	2.45	0.59
1:B:124:G:O6	1:B:126:A:H5"	2.03	0.59
1:B:216:A:C1'	1:B:216:A:C8	2.76	0.59
1:B:248:G:H5"	1:B:249:C:OP1	2.03	0.59
1:B:266:G:H5"	1:B:368:A:H5'	0.61	0.59
1:B:319:G:C4'	1:B:320:A:O5'	2.50	0.59
1:B:416:U:H2'	1:B:417:C:C6	2.37	0.59
1:B:430:A:N6	1:B:431:U:O4	2.36	0.59
1:B:528:A:O5'	1:B:1189:A:N6	2.35	0.59
1:B:637:A:C1'	1:B:637:A:C8	2.78	0.59
1:B:750:A:C1'	1:B:750:A:C8	2.76	0.59
1:B:764:A:O3'	1:B:764:A:H4'	2.02	0.59
1:B:793:A:O2'	1:B:794:A:OP1	2.21	0.59
1:B:805:G:H3'	1:B:806:C:C5'	2.32	0.59
1:B:845:A:C3'	1:B:931:U:N3	2.59	0.59
1:B:916:G:C1'	1:B:916:G:C4	2.76	0.59
1:B:918:A:OP1	1:B:919:U:C6	2.55	0.59
1:B:1141:U:O3'	1:B:1143:A:H5'	2.02	0.59
1:B:1322:A:C1'	1:B:1322:A:C8	2.77	0.59
1:B:1327:A:N6	1:B:1328:A:O4'	2.35	0.59
1:B:1522:A:H2'	1:B:1528:A:H1'	1.83	0.59
1:B:1584:U:HO2'	1:B:1634:A:H5"	1.67	0.59
1:B:1744:A:C1'	1:B:1744:A:C8	2.77	0.59
1:B:1750:G:O2'	1:B:1752:C:O2'	2.12	0.59
1:B:1790:C:O2	1:B:1790:C:C2'	2.50	0.59
1:B:1992:G:H4'	1:B:1993:U:C4'	2.33	0.59
1:B:2042:A:C5'	1:B:2043:C:O4'	2.47	0.59
1:B:2283:C:N4	1:B:2387:U:HO2'	2.00	0.59
1:B:2320:U:OP2	1:B:2321:U:H4'	2.02	0.59
1:B:2325:G:H5"	1:B:2327:A:O4'	2.02	0.59
1:B:2533:U:H2'	1:B:2534:A:C5'	2.24	0.59
1:B:2639:A:C2	1:B:2642:G:O6	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2643:G:C2'	1:B:2645:G:OP2	2.44	0.59
1:B:2704:C:C4	1:B:2705:A:C5	2.89	0.59
1:B:2735:G:H8	1:B:2775:G:O6	1.85	0.59
1:B:2754:U:C3'	1:B:2755:C:C5'	2.80	0.59
1:B:2820:A:H4'	1:B:2821:A:OP1	2.02	0.59
1:B:2822:G:C1'	1:B:2822:G:C4	2.79	0.59
1:B:2844:G:C1'	1:B:2844:G:C8	2.77	0.59
1:B:34:U:C4'	1:B:35:G:H5'	2.33	0.59
1:B:223:A:H5'	1:B:224:U:C5'	2.32	0.59
1:B:240:C:C4'	1:B:275:C:C5'	2.27	0.59
1:B:244:A:C1'	1:B:244:A:C8	2.77	0.59
1:B:382:A:H2'	1:B:383:C:H5'	1.84	0.59
1:B:674:G:H1'	1:B:675:A:H8	1.67	0.59
1:B:802:A:C4'	1:B:1254:A:P	2.91	0.59
1:B:834:G:C4'	1:B:977:G:C4'	2.81	0.59
1:B:863:A:C1'	1:B:863:A:C8	2.78	0.59
1:B:979:A:C1'	1:B:979:A:C8	2.76	0.59
1:B:1003:G:N2	1:B:1009:A:OP1	2.35	0.59
1:B:1242:U:H4'	1:B:1243:C:O4'	2.03	0.59
1:B:1281:G:OP1	1:B:2013:A:N1	2.35	0.59
1:B:1286:A:N1	1:B:2011:U:H1'	2.17	0.59
1:B:1358:G:C1'	1:B:1358:G:C4	2.79	0.59
1:B:1358:G:N2	1:B:1361:G:O6	2.36	0.59
1:B:1521:G:H5"	1:B:1530:G:OP1	2.03	0.59
1:B:1583:A:C5'	1:B:1584:U:H5'	2.32	0.59
1:B:1632:A:C2	1:B:1633:G:O6	2.55	0.59
1:B:1798:U:OP2	1:B:1815:A:H4'	2.02	0.59
1:B:1929:G:O5'	1:B:1938:A:OP1	2.19	0.59
1:B:2070:A:O3'	1:B:2071:A:OP1	2.19	0.59
1:B:2225:A:C1'	1:B:2225:A:C8	2.75	0.59
1:B:2321:U:O3'	1:B:2322:A:OP2	2.20	0.59
1:B:2453:A:C1'	1:B:2453:A:C4	2.75	0.59
1:B:2574:G:C1'	1:B:2574:G:C4	2.79	0.59
1:B:2725:A:OP2	1:B:2728:U:O2'	2.18	0.59
1:B:2738:A:OP1	1:B:2741:A:C8	2.55	0.59
1:B:2849:U:H5"	1:B:2871:U:O4'	2.03	0.59
1:B:2879:A:H4'	1:B:2880:C:C5	2.31	0.59
1:B:10:A:N3	1:B:587:C:OP2	2.35	0.59
1:B:46:G:C1'	1:B:46:G:C4	2.79	0.59
1:B:214:G:N1	1:B:254:G:H2'	2.16	0.59
1:B:223:A:O4'	1:B:224:U:C6	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:319:G:O2'	1:B:320:A:O5'	2.20	0.59
1:B:566:U:H5'	1:B:975:A:OP1	2.02	0.59
1:B:670:A:H4'	1:B:670:A:H5"	1.73	0.59
1:B:745:7MG:C3'	1:B:748:G:C2'	2.81	0.59
1:B:821:A:C4'	1:B:822:G:C8	2.77	0.59
1:B:844:A:C4'	1:B:847:U:C5	2.77	0.59
1:B:1130:U:C4'	1:B:2749:A:C8	2.86	0.59
1:B:1142:A:OP2	1:B:1143:A:C8	2.56	0.59
1:B:1211:C:C4'	1:B:1212:G:C5'	2.70	0.59
1:B:1213:A:N6	1:B:1234:U:C2'	2.65	0.59
1:B:1264:A:C1'	1:B:1264:A:C8	2.77	0.59
1:B:1283:G:O5'	1:B:2012:G:N2	2.35	0.59
1:B:1308:A:N7	1:B:1309:G:N7	2.50	0.59
1:B:1427:A:C8	1:B:1572:A:C2	2.91	0.59
1:B:1469:A:C1'	1:B:1469:A:C4	2.76	0.59
1:B:1535:A:C1'	1:B:1535:A:C8	2.77	0.59
1:B:1560:G:C1'	1:B:1560:G:C4	2.76	0.59
1:B:1722:A:OP1	1:B:1739:A:N3	2.35	0.59
1:B:1905:C:N4	1:B:1929:G:C5'	2.64	0.59
1:B:1932:A:C1'	1:B:1932:A:C8	2.76	0.59
1:B:2059:A:N7	1:B:2556:C:O5'	2.35	0.59
1:B:2062:A:C1'	1:B:2062:A:C8	2.77	0.59
1:B:2116:G:C1'	1:B:2116:G:C4	2.76	0.59
1:B:2263:C:OP1	1:B:2424:C:C1'	2.51	0.59
1:B:2265:U:O2	1:B:2267:A:H4'	2.02	0.59
1:B:2351:G:C1'	1:B:2351:G:C4	2.79	0.59
1:B:2685:G:O6	1:B:2687:U:H3'	2.02	0.59
1:B:2846:G:C4'	1:B:2848:G:C1'	2.80	0.59
1:B:27:G:N2	1:B:673:C:C4	2.71	0.59
1:B:78:U:C5	1:B:99:U:C5'	2.86	0.59
1:B:84:A:H5"	1:B:88:G:H21	0.44	0.59
1:B:188:G:H3'	1:B:191:A:P	2.42	0.59
1:B:207:A:C3'	1:B:208:C:OP2	2.40	0.59
1:B:239:C:P	1:B:274:C:O3'	2.61	0.59
1:B:255:A:O3'	1:B:256:A:O4'	2.20	0.59
1:B:266:G:H5'	1:B:368:A:O3'	2.03	0.59
1:B:397:U:O2'	1:B:398:C:H5'	2.01	0.59
1:B:411:G:N2	1:B:412:A:H5"	2.17	0.59
1:B:411:G:H8	1:B:2407:A:H62	1.47	0.59
1:B:452:G:N7	1:B:479:A:C5'	2.66	0.59
1:B:538:A:O3'	1:B:969:G:OP1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:585:G:C1’	1:B:585:G:C4	2.80	0.59
1:B:674:G:C4’	1:B:674:G:H5”	2.19	0.59
1:B:716:A:C1’	1:B:716:A:C8	2.76	0.59
1:B:744:U:C2	1:B:748:G:C5’	2.77	0.59
1:B:759:G:HO2’	1:B:761:A:C3’	2.15	0.59
1:B:820:A:C1’	1:B:820:A:C4	2.77	0.59
1:B:829:A:C1’	1:B:829:A:C8	2.76	0.59
1:B:1117:C:C5	1:B:2750:A:H2’	2.37	0.59
1:B:1272:A:C1’	1:B:1272:A:C4	2.75	0.59
1:B:1284:A:C5’	1:B:2012:G:C1’	2.81	0.59
1:B:1304:A:O2’	1:B:1646:C:N4	2.36	0.59
1:B:1476:U:H5”	1:B:1516:G:H5’	1.84	0.59
1:B:1522:A:C8	1:B:1528:A:H1’	2.38	0.59
1:B:1651:G:N2	1:B:1652:A:O2’	2.36	0.59
1:B:1670:C:O2	1:B:1670:C:C2’	2.50	0.59
1:B:1678:A:H2’	1:B:1678:A:N3	2.17	0.59
1:B:1694:C:O2	1:B:1694:C:C2’	2.50	0.59
1:B:1817:G:C1’	1:B:1817:G:C8	2.78	0.59
1:B:1969:A:C1’	1:B:1969:A:C8	2.78	0.59
1:B:2158:A:C1’	1:B:2158:A:C4	2.75	0.59
1:B:2233:U:C2	1:B:2234:G:N7	2.71	0.59
1:B:2275:C:C5’	1:B:2426:A:O2’	2.48	0.59
1:B:2365:G:H4’	1:B:2366:A:N9	2.18	0.59
1:B:2430:A:C1’	1:B:2430:A:C4	2.75	0.59
1:B:2438:U:O2’	1:B:2439:A:C4’	2.51	0.59
1:B:2439:A:C2’	1:B:2440:C:OP1	2.46	0.59
1:B:2448:A:C1’	1:B:2448:A:C8	2.78	0.59
1:B:2607:G:C1’	1:B:2607:G:C4	2.78	0.59
1:B:2884:U:C4	1:B:2889:C:N4	2.68	0.59
1:B:28:A:C5’	1:B:28:A:O4’	2.49	0.59
1:B:88:G:OP1	1:B:496:G:OP1	2.21	0.59
1:B:100:U:C2	1:B:113:U:C5’	2.86	0.59
1:B:214:G:C1’	1:B:214:G:C8	2.78	0.59
1:B:215:G:N9	1:B:257:C:C5	2.70	0.59
1:B:217:A:P	1:B:218:A:O5’	2.61	0.59
1:B:294:A:P	1:B:295:G:O5’	2.61	0.59
1:B:320:A:C2	1:B:324:A:H8	1.84	0.59
1:B:370:G:C1’	1:B:370:G:C4	2.76	0.59
1:B:404:A:C1’	1:B:404:A:C8	2.76	0.59
1:B:435:C:H2’	1:B:437:U:OP2	2.01	0.59
1:B:455:C:C6	1:B:456:C:H3’	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:537:G:C1’	1:B:537:G:C4	2.79	0.59
1:B:560:C:O2’	1:B:561:G:C5’	2.33	0.59
1:B:573:U:H2’	1:B:2044:C:H3’	1.83	0.59
1:B:573:U:N3	1:B:2046:G:OP2	2.36	0.59
1:B:674:G:H5’	1:B:1249:U:H3’	1.84	0.59
1:B:704:G:C1’	1:B:704:G:C4	2.77	0.59
1:B:781:A:N7	1:B:785:G:H5’	2.17	0.59
1:B:810:U:C6	1:B:1197:G:O6	2.55	0.59
1:B:1000:A:C1’	1:B:1000:A:C8	2.76	0.59
1:B:1018:U:C5’	1:B:1129:A:OP1	2.49	0.59
1:B:1048:A:OP1	1:B:1049:C:O2’	2.18	0.59
1:B:1155:A:H1’	1:B:1156:A:C8	2.38	0.59
1:B:1198:U:O3’	1:B:1257:C:C5’	2.50	0.59
1:B:1285:A:H2	1:B:2012:G:H5”	1.66	0.59
1:B:1287:A:H2’	1:B:1288:G:C1’	2.33	0.59
1:B:1335:C:OP1	1:B:1415:U:H5”	2.03	0.59
1:B:1360:G:C1’	1:B:1360:G:C4	2.77	0.59
1:B:1421:G:OP2	1:B:1569:A:N3	2.36	0.59
1:B:1585:C:O2	1:B:1585:C:C2’	2.50	0.59
1:B:1673:G:N2	1:B:1988:G:OP2	2.35	0.59
1:B:1674:G:H1’	1:B:1679:A:O3’	2.01	0.59
1:B:1829:A:N7	1:B:1970:A:OP1	2.35	0.59
1:B:1916:A:C1’	1:B:1916:A:C8	2.76	0.59
1:B:1938:A:H2	1:B:2064:C:H5”	1.68	0.59
1:B:1990:C:C5’	1:B:1990:C:H4’	2.17	0.59
1:B:2086:U:O2’	1:B:2087:G:O5’	2.21	0.59
1:B:2322:A:C5’	1:B:2324:U:OP1	2.50	0.59
1:B:2451:A:C2	1:B:2563:U:O5’	2.56	0.59
1:B:2690:U:C5’	1:B:2691:C:C5	2.78	0.59
1:B:2690:U:C5’	1:B:2727:A:C1’	2.81	0.59
1:B:2720:U:O2’	1:B:2721:A:C4’	2.50	0.59
1:B:2850:A:C1’	1:B:2850:A:C8	2.77	0.59
1:B:9:G:H2’	1:B:526:A:C3’	2.33	0.59
1:B:15:G:N7	1:B:1255:U:C1’	2.65	0.59
1:B:112:U:H2’	1:B:119:A:C4	2.38	0.59
1:B:121:G:OP1	1:B:125:A:H2	1.86	0.59
1:B:143:C:C5’	1:B:1329:U:OP2	2.51	0.59
1:B:226:A:C2’	1:B:356:G:OP2	2.51	0.59
1:B:278:A:C1’	1:B:278:A:C8	2.76	0.59
1:B:320:A:C5’	1:B:320:A:H4’	2.17	0.59
1:B:372:G:C1’	1:B:372:G:C4	2.77	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:C1’	1:B:574:A:C4	2.80	0.59
1:B:586:A:C1’	1:B:586:A:C4	2.77	0.59
1:B:672:C:P	1:B:673:C:C5	2.96	0.59
1:B:713:G:C1’	1:B:713:G:C4	2.76	0.59
1:B:735:A:C1’	1:B:735:A:C8	2.76	0.59
1:B:837:C:C1’	1:B:976:G:H8	2.14	0.59
1:B:861:A:C5’	1:B:862:G:O5’	2.51	0.59
1:B:1017:G:HO2’	1:B:1128:G:C2’	2.14	0.59
1:B:1026:G:C2’	1:B:1027:A:C1’	2.80	0.59
1:B:1044:C:H2’	1:B:1045:C:OP2	2.03	0.59
1:B:1242:U:C4’	1:B:1243:C:O4’	2.51	0.59
1:B:1321:A:P	1:B:1323:C:C4’	2.89	0.59
1:B:1358:G:H1	1:B:1370:C:H41	1.49	0.59
1:B:1570:A:C6	1:B:1572:A:N7	2.71	0.59
1:B:1570:A:C2	1:B:1573:G:P	2.96	0.59
1:B:1581:G:O6	1:B:1630:A:C5	2.56	0.59
1:B:1620:G:P	1:B:1621:U:H5	2.26	0.59
1:B:1652:A:C1’	1:B:1652:A:C8	2.78	0.59
1:B:1663:G:C5’	1:B:1664:A:P	2.91	0.59
1:B:1695:G:H2’	1:B:2704:C:H1’	1.85	0.59
1:B:1854:A:C1’	1:B:1854:A:C8	2.78	0.59
1:B:1854:A:N7	1:B:1858:A:H3’	2.18	0.59
1:B:1858:A:C1’	1:B:1858:A:C8	2.77	0.59
1:B:1934:C:O5’	1:B:1941:C:C1’	2.47	0.59
1:B:1973:G:H5”	1:B:2062:A:N3	2.15	0.59
1:B:2168:G:C1’	1:B:2168:G:C8	2.76	0.59
1:B:2172:U:O2’	1:B:2173:A:C5’	2.50	0.59
1:B:2451:A:O3’	1:B:2451:A:H3’	1.90	0.59
1:B:2871:U:O5’	1:B:2872:A:C5’	2.51	0.59
1:B:82:U:O2’	1:B:84:A:C4	2.55	0.58
1:B:84:A:N7	1:B:85:G:O6	2.36	0.58
1:B:93:G:O2’	1:B:498:G:O5’	2.19	0.58
1:B:227:A:C1’	1:B:227:A:C8	2.75	0.58
1:B:270:A:O3’	1:B:270:A:H3’	1.95	0.58
1:B:322:A:H4’	1:B:338:G:C8	2.38	0.58
1:B:447:A:C1’	1:B:447:A:C8	2.76	0.58
1:B:451:U:C2	1:B:460:A:O5’	2.56	0.58
1:B:563:A:C1’	1:B:563:A:C8	2.75	0.58
1:B:792:A:N6	1:B:795:C:C4	2.70	0.58
1:B:803:U:OP1	1:B:1254:A:OP2	2.21	0.58
1:B:916:G:O5’	1:B:917:A:C4’	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1000:A:C8	1:B:1150:C:C5	2.90	0.58
1:B:1128:G:H4'	1:B:2751:G:C3'	2.32	0.58
1:B:1272:A:H4'	1:B:1649:G:OP1	2.02	0.58
1:B:1286:A:H2	1:B:2010:G:H21	1.50	0.58
1:B:1329:U:H5"	1:B:1330:C:O4'	2.03	0.58
1:B:1392:A:C1'	1:B:1392:A:C8	2.75	0.58
1:B:1449:G:N2	1:B:1467:U:C4	2.68	0.58
1:B:1453:A:H2'	1:B:1525:A:C5'	2.32	0.58
1:B:1655:A:N1	1:B:1656:C:H1'	2.18	0.58
1:B:1696:G:O2'	1:B:2702:G:C3'	2.51	0.58
1:B:1814:G:H2'	1:B:1815:A:H5"	1.85	0.58
1:B:1913:A:C1'	1:B:1913:A:C8	2.76	0.58
1:B:2320:U:C2'	1:B:2321:U:OP2	2.50	0.58
1:B:2489:U:OP1	1:B:2501:C:H2'	2.03	0.58
1:B:2763:G:C5'	1:B:2765:A:H61	2.16	0.58
1:B:43:G:H3'	1:B:44:A:P	2.42	0.58
1:B:52:A:O3'	1:B:52:A:C2'	2.47	0.58
1:B:161:A:C1'	1:B:161:A:C8	2.77	0.58
1:B:220:G:O6	1:B:276:U:O2	2.21	0.58
1:B:264:C:H5"	1:B:369:U:HO2'	1.67	0.58
1:B:502:A:H2'	1:B:503:A:OP1	2.01	0.58
1:B:608:A:O3'	1:B:609:A:C4	2.56	0.58
1:B:672:C:O3'	1:B:1248:G:H2'	2.03	0.58
1:B:759:G:C4'	1:B:1950:G:OP1	2.51	0.58
1:B:876:C:C1'	1:B:879:G:N7	2.63	0.58
1:B:1025:G:N3	1:B:1026:G:H5'	2.18	0.58
1:B:1045:C:N4	1:B:1051:G:H4'	2.18	0.58
1:B:1128:G:N2	1:B:2752:C:P	2.76	0.58
1:B:1274:A:HO2'	1:B:1274:A:H8	1.50	0.58
1:B:1363:C:C5	1:B:1365:A:C8	2.91	0.58
1:B:1383:A:C1'	1:B:1383:A:C8	2.76	0.58
1:B:1426:G:C4'	1:B:1572:A:H1'	2.33	0.58
1:B:1476:U:C4'	1:B:1516:G:H5"	2.30	0.58
1:B:1689:A:O3'	1:B:1691:C:H5'	2.02	0.58
1:B:1740:G:H2'	1:B:1741:C:O4'	2.03	0.58
1:B:1750:G:H5"	1:B:1753:G:P	2.43	0.58
1:B:1780:A:C2'	1:B:1782:U:O4	2.50	0.58
1:B:1816:C:H5'	1:B:1817:G:H21	1.67	0.58
1:B:1818:U:C5'	1:B:1820:U:P	2.91	0.58
1:B:1854:A:C4'	1:B:1888:G:C1'	2.81	0.58
1:B:1990:C:H5"	1:B:1991:U:O4'	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1995:U:C5'	1:B:1996:C:OP2	2.41	0.58
1:B:2335:A:C8	1:B:2336:A:H1'	2.38	0.58
1:B:2475:C:H2'	1:B:2475:C:O2	2.03	0.58
1:B:2799:A:C2	1:B:2894:G:O4'	2.55	0.58
1:B:2894:G:C2'	1:B:2895:G:H5"	2.32	0.58
1:B:14:A:C4'	1:B:1256:G:N7	2.64	0.58
1:B:135:U:O4'	1:B:169:G:C5'	2.43	0.58
1:B:159:G:H3'	1:B:160:A:C5'	2.33	0.58
1:B:241:A:C1'	1:B:241:A:C8	2.77	0.58
1:B:241:A:N7	1:B:275:C:H6	2.00	0.58
1:B:255:A:C1'	1:B:255:A:C8	2.79	0.58
1:B:402:A:H3'	1:B:403:U:C5	2.38	0.58
1:B:411:G:N2	1:B:412:A:C5'	2.66	0.58
1:B:480:A:C1'	1:B:480:A:C8	2.77	0.58
1:B:507:A:C2	1:B:1246:A:C8	2.90	0.58
1:B:574:A:H5'	1:B:2044:C:C5'	2.09	0.58
1:B:780:G:C1'	1:B:780:G:C8	2.79	0.58
1:B:818:G:N2	1:B:820:A:C4	2.71	0.58
1:B:867:C:C3'	1:B:868:U:C6	2.77	0.58
1:B:933:A:C1'	1:B:933:A:C8	2.77	0.58
1:B:1023:U:C1'	1:B:1023:U:P	2.92	0.58
1:B:1023:U:H2'	1:B:2465:C:C4	2.38	0.58
1:B:1248:G:C1'	1:B:1248:G:C4	2.77	0.58
1:B:1268:A:C1'	1:B:1268:A:C8	2.77	0.58
1:B:1272:A:C1'	1:B:1649:G:H5"	2.32	0.58
1:B:1284:A:C1'	1:B:1284:A:C8	2.77	0.58
1:B:1342:A:C1'	1:B:1342:A:C8	2.76	0.58
1:B:1426:G:P	1:B:1566:A:O2'	2.60	0.58
1:B:1476:U:C3'	1:B:1516:G:C5'	2.39	0.58
1:B:1697:G:C1'	1:B:1697:G:C4	2.79	0.58
1:B:1875:G:OP1	1:B:1876:A:C3'	2.51	0.58
1:B:2452:C:O2'	1:B:2453:A:OP2	2.06	0.58
1:B:2468:A:C3'	1:B:2469:A:N1	2.65	0.58
1:B:2498:5MC:C1'	1:B:2498:5MC:O2	2.51	0.58
1:B:2705:A:N7	1:B:2706:A:C8	2.72	0.58
1:B:52:A:O5'	1:B:176:A:C2	2.56	0.58
1:B:71:A:C5'	1:B:105:C:C5'	2.79	0.58
1:B:98:G:C5'	1:B:103:A:C5'	2.82	0.58
1:B:98:G:O2'	1:B:102:U:C4'	2.51	0.58
1:B:113:U:C1'	1:B:113:U:C2	2.82	0.58
1:B:125:A:H2'	1:B:126:A:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:G:P	1:B:191:A:OP2	2.62	0.58
1:B:309:A:C1'	1:B:309:A:C8	2.76	0.58
1:B:319:G:C4'	1:B:320:A:H5'	2.33	0.58
1:B:344:A:C1'	1:B:344:A:C8	2.76	0.58
1:B:527:C:C5	1:B:1189:A:C2'	2.78	0.58
1:B:560:C:H2'	1:B:561:G:C4'	2.33	0.58
1:B:643:A:C1'	1:B:643:A:C8	2.76	0.58
1:B:676:A:C1'	1:B:676:A:C4	2.77	0.58
1:B:800:A:H3'	1:B:1247:A:H1'	1.85	0.58
1:B:979:A:H2'	1:B:981:A:OP2	2.04	0.58
1:B:984:A:C1'	1:B:984:A:C8	2.75	0.58
1:B:1040:A:H3'	1:B:1050:A:C1'	2.33	0.58
1:B:1130:U:HO3'	1:B:1131:G:P	2.22	0.58
1:B:1263:U:O2	1:B:1263:U:H2'	2.03	0.58
1:B:1416:G:N2	1:B:1465:G:H2'	2.19	0.58
1:B:1427:A:OP2	1:B:1572:A:C2'	2.51	0.58
1:B:1427:A:C5'	1:B:1572:A:H2	2.17	0.58
1:B:1476:U:C5'	1:B:1516:G:C5'	2.81	0.58
1:B:1524:G:O5'	1:B:1527:G:H5'	2.01	0.58
1:B:1674:G:H5"	1:B:1678:A:C2	2.38	0.58
1:B:1779:U:H3'	1:B:1780:A:H5'	1.84	0.58
1:B:1792:G:H5'	1:B:1942:C:C3'	2.33	0.58
1:B:1855:U:H1'	1:B:1884:G:C2	2.37	0.58
1:B:1905:C:H41	1:B:1929:G:H5"	1.63	0.58
1:B:1950:G:N2	1:B:1951:U:H2'	2.18	0.58
1:B:2268:A:C1'	1:B:2268:A:C8	2.77	0.58
1:B:2269:G:C1'	1:B:2269:G:C4	2.76	0.58
1:B:2327:A:O3'	1:B:2327:A:C4'	2.48	0.58
1:B:2384:U:H5"	1:B:2385:C:OP2	2.03	0.58
1:B:2553:G:C1'	1:B:2553:G:C4	2.77	0.58
1:B:2663:G:C6	1:B:2664:G:C4	2.91	0.58
1:B:2675:A:C1'	1:B:2675:A:C8	2.76	0.58
1:B:2690:U:O2	1:B:2690:U:C2'	2.52	0.58
1:B:2752:C:H2'	1:B:2752:C:O2	2.03	0.58
1:B:2834:G:C1'	1:B:2834:G:C4	2.77	0.58
1:B:2835:A:OP1	1:B:2879:A:N6	2.36	0.58
1:B:2857:G:C1'	1:B:2857:G:C4	2.76	0.58
1:B:2868:A:C8	1:B:2868:A:C1'	2.76	0.58
1:B:10:A:O5'	1:B:526:A:OP1	2.22	0.58
1:B:222:A:C1'	1:B:222:A:C4	2.79	0.58
1:B:399:U:O2'	1:B:400:G:O5'	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:A:C1'	1:B:412:A:C8	2.78	0.58
1:B:460:A:H62	1:B:593:U:P	2.26	0.58
1:B:538:A:O2'	1:B:539:G:C8	2.56	0.58
1:B:575:A:C1'	1:B:575:A:C8	2.75	0.58
1:B:609:A:C1'	1:B:609:A:C8	2.79	0.58
1:B:685:A:O2'	1:B:788:A:O4'	2.20	0.58
1:B:844:A:OP2	1:B:846:U:OP1	2.22	0.58
1:B:858:G:OP2	1:B:859:G:N9	2.37	0.58
1:B:990:A:O3'	1:B:991:C:C5'	2.52	0.58
1:B:1289:C:N1	1:B:1648:U:C5'	2.67	0.58
1:B:1308:A:C1'	1:B:1308:A:C8	2.79	0.58
1:B:1347:A:C4'	1:B:1348:C:O5'	2.52	0.58
1:B:1373:A:C1'	1:B:1373:A:C8	2.76	0.58
1:B:1451:C:C2'	1:B:1457:U:O4	2.52	0.58
1:B:1603:A:C1'	1:B:1603:A:C8	2.77	0.58
1:B:1675:C:O2	1:B:1677:A:C2'	2.49	0.58
1:B:1680:U:O2	1:B:1681:G:O5'	2.20	0.58
1:B:1788:C:C4'	1:B:2554:U:O2'	2.35	0.58
1:B:1884:G:O2'	1:B:1886:U:P	2.61	0.58
1:B:1933:G:C1'	1:B:1933:G:C4	2.80	0.58
1:B:1937:A:C5'	1:B:1938:A:OP2	2.51	0.58
1:B:1940:U:O2	1:B:2063:C:C5	2.57	0.58
1:B:2111:U:O2	1:B:2113:U:OP1	2.21	0.58
1:B:2129:C:H2'	1:B:2130:U:C5'	2.33	0.58
1:B:2170:A:C1'	1:B:2170:A:C8	2.76	0.58
1:B:2685:G:N3	1:B:2722:G:C3'	2.66	0.58
1:B:2702:G:C1'	1:B:2702:G:C4	2.77	0.58
1:B:2834:G:OP1	1:B:2888:C:OP2	2.21	0.58
1:B:196:A:C2'	1:B:198:C:N4	2.66	0.58
1:B:241:A:C2	1:B:275:C:H5'	2.38	0.58
1:B:262:A:C2'	1:B:430:A:O4'	2.45	0.58
1:B:362:A:C1'	1:B:362:A:C8	2.76	0.58
1:B:390:U:H4'	1:B:405:U:OP2	2.04	0.58
1:B:462:C:H41	1:B:464:U:H5"	1.66	0.58
1:B:494:G:C2	1:B:499:U:O4	2.57	0.58
1:B:574:A:P	1:B:2044:C:C5'	2.82	0.58
1:B:793:A:C4'	1:B:794:A:OP2	2.39	0.58
1:B:819:A:H2'	1:B:820:A:C4'	2.33	0.58
1:B:1017:G:OP1	1:B:2753:A:O5'	2.20	0.58
1:B:1049:C:C5	1:B:1050:A:H3'	2.38	0.58
1:B:1122:G:C1'	1:B:1122:G:C4	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1284:A:O3'	1:B:2012:G:C8	2.57	0.58
1:B:1523:U:O3'	1:B:1528:A:H4'	2.04	0.58
1:B:1807:G:C1'	1:B:1807:G:C4	2.76	0.58
1:B:1835:G:N7	1:B:1930:G:H1'	2.17	0.58
1:B:1869:G:C1'	1:B:1869:G:C4	2.78	0.58
1:B:1931:U:O5'	1:B:1935:G:OP1	2.21	0.58
1:B:2091:C:H2'	1:B:2092:U:H6	1.67	0.58
1:B:2117:A:C1'	1:B:2117:A:C8	2.78	0.58
1:B:2132:U:C6	1:B:2133:G:H1'	2.34	0.58
1:B:2322:A:C1'	1:B:2322:A:C8	2.76	0.58
1:B:2335:A:C1'	1:B:2335:A:C8	2.78	0.58
1:B:2433:A:H4'	1:B:2434:A:N7	2.17	0.58
1:B:2468:A:C1'	1:B:2468:A:C8	2.78	0.58
1:B:2503:A:C4'	1:B:2504:U:C6	2.86	0.58
1:B:27:G:N2	1:B:1249:U:OP1	2.36	0.58
1:B:77:G:C3'	1:B:99:U:O4'	2.36	0.58
1:B:98:G:O3'	1:B:102:U:C3'	2.51	0.58
1:B:98:G:N9	1:B:102:U:H5	1.97	0.58
1:B:294:A:OP1	1:B:295:G:O4'	2.21	0.58
1:B:343:C:OP1	1:B:345:A:H5'	2.02	0.58
1:B:487:C:O2'	1:B:505:A:C5	2.57	0.58
1:B:619:G:C5'	1:B:620:G:OP1	2.50	0.58
1:B:919:U:OP1	1:B:920:A:H5'	2.04	0.58
1:B:1048:A:C1'	1:B:1048:A:C8	2.77	0.58
1:B:1214:A:C2	1:B:1215:G:O4'	2.57	0.58
1:B:1252:G:H22	1:B:1253:A:H5'	1.67	0.58
1:B:1266:G:H22	1:B:1270:C:H1'	1.68	0.58
1:B:1285:A:H1'	1:B:2011:U:O3'	2.03	0.58
1:B:1285:A:N3	1:B:2012:G:OP1	2.37	0.58
1:B:1351:C:C5'	1:B:1352:U:O5'	2.52	0.58
1:B:1376:C:OP2	1:B:1378:A:N3	2.37	0.58
1:B:1416:G:N2	1:B:1465:G:O2'	2.36	0.58
1:B:1521:G:C6	1:B:1522:A:C1'	2.65	0.58
1:B:1522:A:H3'	1:B:1528:A:O2'	2.01	0.58
1:B:1525:A:C8	1:B:1525:A:C1'	2.77	0.58
1:B:1543:G:C2'	1:B:1544:A:C5'	2.55	0.58
1:B:1610:A:N1	1:B:1613:G:H3'	2.18	0.58
1:B:1675:C:H3'	1:B:1678:A:C5'	2.33	0.58
1:B:1690:A:N7	1:B:1691:C:O2'	2.35	0.58
1:B:1692:U:H2'	1:B:1697:G:O2'	2.03	0.58
1:B:1935:G:H2'	1:B:1939:5MU:C1'	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1942:C:H5”	1:B:2441:U:C3’	2.34	0.58
1:B:2309:A:H5’	1:B:2310:C:C5	2.38	0.58
1:B:2322:A:C5’	1:B:2324:U:P	2.90	0.58
1:B:2533:U:C4	1:B:2534:A:N7	2.72	0.58
1:B:2740:A:H8	1:B:2742:G:OP2	1.85	0.58
1:B:2869:G:C1’	1:B:2869:G:C4	2.79	0.58
1:B:17:G:H5”	1:B:672:C:H1’	1.86	0.58
1:B:100:U:C2	1:B:113:U:H5’	2.39	0.58
1:B:110:G:O3’	1:B:170:U:H4’	1.99	0.58
1:B:144:A:HO2’	1:B:1327:A:P	2.26	0.58
1:B:265:A:O2’	1:B:369:U:O5’	2.19	0.58
1:B:340:A:C1’	1:B:340:A:C8	2.76	0.58
1:B:450:G:O4’	1:B:452:G:O2’	2.21	0.58
1:B:459:U:N3	1:B:478:A:N1	2.52	0.58
1:B:494:G:N3	1:B:499:U:O4	2.37	0.58
1:B:498:G:C1’	1:B:498:G:C8	2.76	0.58
1:B:499:U:C6	1:B:500:G:N2	2.72	0.58
1:B:500:G:C2’	1:B:505:A:O2’	2.52	0.58
1:B:566:U:C5’	1:B:975:A:OP1	2.52	0.58
1:B:576:U:H5”	1:B:2041:U:C4	2.37	0.58
1:B:782:A:O3’	1:B:783:A:H8	1.85	0.58
1:B:983:A:N7	1:B:984:A:N6	2.51	0.58
1:B:1312:U:C5’	1:B:1640:A:O2’	2.51	0.58
1:B:1346:G:HO2’	1:B:1348:C:C1’	2.15	0.58
1:B:1713:A:C1’	1:B:1713:A:C8	2.76	0.58
1:B:1900:A:H8	1:B:1901:A:N6	2.02	0.58
1:B:1933:G:C3’	1:B:1935:G:C3’	2.79	0.58
1:B:1940:U:O2	1:B:2063:C:H5	1.87	0.58
1:B:2199:A:O2’	1:B:2200:C:H5”	2.03	0.58
1:B:2327:A:H3’	1:B:2328:A:H5”	1.86	0.58
1:B:2366:A:C5’	1:B:2367:G:C5’	2.65	0.58
1:B:2493:U:H4’	1:B:2494:G:C8	2.38	0.58
1:B:2543:G:C5’	1:B:2610:C:H42	2.09	0.58
1:B:2598:A:H2’	1:B:2599:G:C5’	2.34	0.58
1:B:2719:G:O2’	1:B:2720:U:C5’	2.51	0.58
1:B:2738:A:C1’	1:B:2738:A:C8	2.78	0.58
1:B:11:C:C2’	1:B:1195:G:C2’	2.82	0.58
1:B:64:A:O3’	1:B:64:A:C2’	2.50	0.58
1:B:78:U:P	1:B:99:U:H5’	2.43	0.58
1:B:181:A:C1’	1:B:181:A:C8	2.76	0.58
1:B:242:G:H4’	1:B:254:G:N7	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:359:G:O2'	1:B:370:G:C4'	2.47	0.58
1:B:359:G:HO2'	1:B:370:G:H5'	1.69	0.58
1:B:446:G:O6	1:B:465:G:O6	2.22	0.58
1:B:449:A:C1'	1:B:449:A:C8	2.76	0.58
1:B:471:A:N1	1:B:677:A:N7	2.52	0.58
1:B:487:C:C3'	1:B:488:G:H4'	2.34	0.58
1:B:497:A:C1'	1:B:497:A:C4	2.76	0.58
1:B:526:A:OP2	1:B:811:U:H2'	2.03	0.58
1:B:632:A:C1'	1:B:632:A:C8	2.76	0.58
1:B:846:U:H5"	1:B:927:A:C4	2.39	0.58
1:B:859:G:OP1	1:B:860:U:O4'	2.21	0.58
1:B:1366:A:H3'	1:B:1367:A:C8	2.39	0.58
1:B:1425:G:C5'	1:B:1565:C:O2'	2.52	0.58
1:B:1427:A:N1	1:B:1574:C:O4'	2.36	0.58
1:B:1522:A:O3'	1:B:1528:A:H2'	2.03	0.58
1:B:1575:C:OP1	1:B:1630:A:OP1	2.21	0.58
1:B:1582:C:C5	1:B:1632:A:C3'	2.77	0.58
1:B:1670:C:C2'	1:B:1753:G:H1'	2.34	0.58
1:B:1736:U:C5	1:B:1739:A:H4'	2.39	0.58
1:B:1737:G:C5	1:B:1739:A:C5'	2.77	0.58
1:B:1770:G:C3'	1:B:1771:C:P	2.90	0.58
1:B:1791:A:C4'	1:B:1942:C:C6	2.74	0.58
1:B:1803:A:H3'	1:B:1804:C:O4'	2.04	0.58
1:B:1857:G:O2'	1:B:2231:U:H4'	2.03	0.58
1:B:1931:U:HO3'	1:B:1932:A:P	2.20	0.58
1:B:2126:A:C5'	1:B:2167:U:N3	2.65	0.58
1:B:2733:A:C1'	1:B:2733:A:C8	2.76	0.58
1:B:2809:A:H1'	1:B:2810:A:C4'	2.33	0.58
1:B:11:C:H2'	1:B:1195:G:C2'	2.33	0.58
1:B:77:G:P	1:B:99:U:H2'	2.44	0.58
1:B:216:A:O3'	1:B:218:A:O2'	2.15	0.58
1:B:435:C:C3'	1:B:435:C:HO3'	2.09	0.58
1:B:513:A:C1'	1:B:513:A:C8	2.77	0.58
1:B:746:PSU:C3'	1:B:747:5MU:C5'	2.80	0.58
1:B:1131:G:P	1:B:2752:C:O3'	2.62	0.58
1:B:1348:C:C5'	1:B:1348:C:HO5'	2.12	0.58
1:B:1353:A:C1'	1:B:1353:A:C8	2.76	0.58
1:B:1427:A:C1'	1:B:1427:A:C4	2.77	0.58
1:B:1453:A:H2'	1:B:1525:A:C3'	2.34	0.58
1:B:1476:U:O2'	1:B:1478:G:O6	2.22	0.58
1:B:1477:A:C1'	1:B:1477:A:C8	2.79	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1553:A:C1'	1:B:1553:A:C8	2.76	0.58
1:B:1610:A:N6	1:B:1613:G:H8	1.95	0.58
1:B:1875:G:H3'	1:B:1876:A:C6	2.39	0.58
1:B:1943:U:C4	1:B:2071:A:H5'	2.37	0.58
1:B:2070:A:HO3'	1:B:2071:A:P	2.22	0.58
1:B:2115:G:H1	1:B:2174:C:H41	1.51	0.58
1:B:2179:C:H2'	1:B:2179:C:O2	2.03	0.58
1:B:2283:C:C3'	1:B:2388:A:H5"	2.29	0.58
1:B:2287:A:C1'	1:B:2287:A:C8	2.77	0.58
1:B:2447:G:O5'	1:B:2551:C:O2'	2.20	0.58
1:B:2450:A:H5"	1:B:2561:U:OP1	2.04	0.58
1:B:2451:A:C2	1:B:2562:U:H3'	2.35	0.58
1:B:2451:A:N1	1:B:2563:U:H5"	2.19	0.58
1:B:2503:A:C4'	1:B:2504:U:H6	2.17	0.58
1:B:2655:G:C2	1:B:2656:U:C5	2.91	0.58
1:B:2722:G:C1'	1:B:2722:G:C4	2.77	0.58
1:B:25:U:O2'	1:B:26:G:O5'	2.17	0.57
1:B:64:A:C1'	1:B:64:A:C8	2.80	0.57
1:B:66:C:OP2	1:B:68:G:C1'	2.52	0.57
1:B:83:A:C1'	1:B:83:A:C8	2.79	0.57
1:B:89:A:C2'	1:B:90:U:OP1	2.52	0.57
1:B:110:G:H3'	1:B:171:U:OP1	2.02	0.57
1:B:143:C:H5"	1:B:1328:A:C3'	2.34	0.57
1:B:300:A:C1'	1:B:300:A:C8	2.75	0.57
1:B:322:A:C1'	1:B:322:A:C8	2.78	0.57
1:B:344:A:H5'	1:B:345:A:OP2	2.04	0.57
1:B:449:A:P	1:B:478:A:H5"	2.44	0.57
1:B:482:A:N6	1:B:512:G:N2	2.43	0.57
1:B:486:C:O2'	1:B:505:A:C5'	2.52	0.57
1:B:538:A:C1'	1:B:538:A:C8	2.77	0.57
1:B:673:C:H3'	1:B:1249:U:P	2.44	0.57
1:B:675:A:C5'	1:B:1250:G:C8	2.86	0.57
1:B:746:PSU:C2	1:B:747:5MU:O4'	2.57	0.57
1:B:859:G:C5'	1:B:859:G:C3'	2.76	0.57
1:B:878:A:C1'	1:B:878:A:C8	2.76	0.57
1:B:899:A:C1'	1:B:899:A:C8	2.77	0.57
1:B:915:C:H5"	1:B:916:G:P	2.43	0.57
1:B:926:G:C5'	1:B:927:A:O5'	2.51	0.57
1:B:959:A:H2'	1:B:960:A:O5'	2.04	0.57
1:B:1023:U:O3'	1:B:2467:C:H3'	2.04	0.57
1:B:1026:G:O2'	1:B:1027:A:C1'	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1116:G:H5”	1:B:2750:A:C3’	2.34	0.57
1:B:1378:A:C1’	1:B:1378:A:C8	2.76	0.57
1:B:1453:A:C1’	1:B:1453:A:C4	2.76	0.57
1:B:1571:A:C1’	1:B:1571:A:C8	2.78	0.57
1:B:1641:A:C8	1:B:1641:A:C1’	2.78	0.57
1:B:1670:C:C2	1:B:1753:G:N7	2.72	0.57
1:B:1773:A:C1’	1:B:1773:A:C8	2.75	0.57
1:B:1825:U:H5’	1:B:1967:C:H41	1.64	0.57
1:B:1854:A:H4’	1:B:1888:G:C4	2.38	0.57
1:B:1869:G:C3’	1:B:2159:G:OP1	2.52	0.57
1:B:1890:A:C1’	1:B:1890:A:C8	2.77	0.57
1:B:1938:A:C4’	1:B:1938:A:H5’	2.17	0.57
1:B:2059:A:C8	1:B:2557:G:H4’	2.39	0.57
1:B:2629:U:H4’	1:B:2630:G:C4’	2.34	0.57
1:B:2845:U:O2’	1:B:2848:G:C6	2.57	0.57
1:B:45:G:OP1	1:B:46:G:C4’	2.52	0.57
1:B:52:A:H5’	1:B:176:A:C2	2.39	0.57
1:B:63:A:N3	1:B:86:G:H5”	2.18	0.57
1:B:92:U:C1’	1:B:498:G:N3	2.57	0.57
1:B:112:U:C4’	1:B:112:U:H5’	2.19	0.57
1:B:216:A:H5”	1:B:218:A:C4	2.38	0.57
1:B:423:A:C1’	1:B:423:A:C8	2.77	0.57
1:B:499:U:O2	1:B:499:U:C2’	2.53	0.57
1:B:529:A:C6	1:B:947:A:C1’	2.87	0.57
1:B:574:A:H4’	1:B:2043:C:C3’	2.33	0.57
1:B:578:G:C1’	1:B:578:G:C4	2.77	0.57
1:B:698:C:N4	1:B:1948:G:O2’	2.37	0.57
1:B:876:C:H1’	1:B:879:G:C5	2.39	0.57
1:B:896:A:O4’	1:B:897:C:H5’	2.04	0.57
1:B:1040:A:C1’	1:B:1116:G:O6	2.50	0.57
1:B:1125:G:C1’	1:B:1125:G:C4	2.77	0.57
1:B:1189:A:HO3’	1:B:1190:G:P	2.27	0.57
1:B:1282:U:O3’	1:B:2012:G:N2	2.29	0.57
1:B:1311:G:H1’	1:B:1640:A:C2	2.39	0.57
1:B:1348:C:C2’	1:B:1349:C:H6	2.15	0.57
1:B:1610:A:H4’	1:B:1611:C:C6	2.38	0.57
1:B:1671:U:C5	1:B:1672:A:C5’	2.85	0.57
1:B:1790:C:H5”	1:B:2443:C:H4’	1.81	0.57
1:B:1853:A:OP1	1:B:1857:G:O4’	2.22	0.57
1:B:1932:A:H5”	1:B:1941:C:O2	2.02	0.57
1:B:2112:G:O3’	1:B:2112:G:H3’	1.94	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2245:U:N3	1:B:2427:C:O2	2.38	0.57
1:B:2345:G:C1'	1:B:2345:G:C8	2.79	0.57
1:B:2496:C:N4	1:B:2498:5MC:P	2.78	0.57
1:B:2637:U:H2'	1:B:2638:G:O5'	2.03	0.57
1:B:25:U:P	1:B:485:C:HO2'	2.26	0.57
1:B:62:U:O2'	1:B:307:G:H1'	2.03	0.57
1:B:198:C:O2'	1:B:199:A:C8	2.56	0.57
1:B:226:A:N6	1:B:431:U:C3'	2.66	0.57
1:B:669:G:H4'	1:B:669:G:H5'	1.70	0.57
1:B:684:G:C4'	1:B:776:G:OP1	2.52	0.57
1:B:862:G:C2'	1:B:863:A:O5'	2.52	0.57
1:B:1017:G:P	1:B:2753:A:C8	2.97	0.57
1:B:1077:A:O2'	1:B:1078:U:H5'	2.05	0.57
1:B:1204:A:C1'	1:B:1204:A:C8	2.77	0.57
1:B:1404:C:HO3'	1:B:1405:U:P	2.27	0.57
1:B:1439:A:C1'	1:B:1439:A:C8	2.77	0.57
1:B:1527:G:C1'	1:B:1527:G:C4	2.75	0.57
1:B:1582:C:C4	1:B:1633:G:H8	2.23	0.57
1:B:1596:A:OP2	1:B:1598:A:N7	2.37	0.57
1:B:1663:G:H3'	1:B:1665:A:P	2.42	0.57
1:B:1740:G:P	1:B:1740:G:H21	2.27	0.57
1:B:1790:C:C6	1:B:1970:A:H5'	2.32	0.57
1:B:1818:U:H5'	1:B:1820:U:P	2.43	0.57
1:B:1855:U:C2	1:B:1885:A:H2'	2.39	0.57
1:B:1905:C:O4'	1:B:1927:A:C4'	2.51	0.57
1:B:1950:G:H2'	1:B:1951:U:C5'	2.34	0.57
1:B:2015:A:C1'	1:B:2015:A:C8	2.78	0.57
1:B:2023:C:H2'	1:B:2024:G:H8	1.66	0.57
1:B:2061:G:O3'	1:B:2061:G:C2'	2.48	0.57
1:B:2092:U:C5'	1:B:2093:G:OP1	2.52	0.57
1:B:2111:U:N1	1:B:2112:G:C5'	2.65	0.57
1:B:2374:C:H4'	1:B:2413:G:H5'	1.84	0.57
1:B:2378:A:C1'	1:B:2378:A:C8	2.76	0.57
1:B:2378:A:H5'	1:B:2379:G:N7	2.12	0.57
1:B:2501:C:O2	1:B:2575:C:N3	2.38	0.57
1:B:2685:G:H21	1:B:2723:C:P	2.25	0.57
1:B:2738:A:C1'	1:B:2738:A:C4	2.75	0.57
1:B:2821:A:O2'	1:B:2822:G:N3	2.37	0.57
1:B:2882:A:C3'	1:B:2883:A:C2	2.87	0.57
1:B:71:A:C4'	1:B:71:A:H5"	2.20	0.57
1:B:74:A:P	1:B:113:U:C3'	2.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:A:H2	1:B:88:G:N2	2.02	0.57
1:B:262:A:H4'	1:B:429:A:C5'	2.34	0.57
1:B:449:A:H5"	1:B:478:A:OP2	2.04	0.57
1:B:573:U:C3'	1:B:2044:C:P	2.83	0.57
1:B:670:A:C3'	1:B:671:C:C5'	2.80	0.57
1:B:805:G:O4'	1:B:1252:G:H3'	2.04	0.57
1:B:805:G:N3	1:B:1251:C:O3'	2.37	0.57
1:B:913:U:O4	1:B:917:A:H3'	2.01	0.57
1:B:932:U:O2	1:B:932:U:C2'	2.53	0.57
1:B:1025:G:H5"	1:B:2468:A:C4'	2.35	0.57
1:B:1116:G:C1'	1:B:1116:G:C4	2.76	0.57
1:B:1275:A:H5"	1:B:1288:G:O5'	2.04	0.57
1:B:1327:A:O3'	1:B:1327:A:C2'	2.48	0.57
1:B:1605:C:C6	1:B:1663:G:O3'	2.57	0.57
1:B:1640:A:C1'	1:B:1640:A:C8	2.76	0.57
1:B:1673:G:H5'	1:B:1678:A:N6	2.19	0.57
1:B:1720:U:O3'	1:B:1722:A:H5'	2.04	0.57
1:B:1790:C:C2'	1:B:2442:C:O2'	2.52	0.57
1:B:1952:A:C1'	1:B:1952:A:C8	2.81	0.57
1:B:2058:A:H2	1:B:2069:7MG:P	2.27	0.57
1:B:2060:A:O3'	1:B:2446:G:C5'	2.52	0.57
1:B:2275:C:C2	1:B:2276:G:N7	2.72	0.57
1:B:2308:G:N2	1:B:2309:A:H8	2.03	0.57
1:B:2360:G:O2'	1:B:2361:G:O5'	2.21	0.57
1:B:2556:C:H3'	1:B:2557:G:C4'	2.31	0.57
1:B:2690:U:H4'	1:B:2727:A:C8	2.40	0.57
1:B:2750:A:C1'	1:B:2750:A:C8	2.80	0.57
1:B:15:G:H1'	1:B:1256:G:C5'	2.34	0.57
1:B:48:G:C1'	1:B:48:G:C8	2.79	0.57
1:B:148:U:C5'	1:B:149:A:C5'	2.81	0.57
1:B:227:A:N3	1:B:355:U:OP1	2.38	0.57
1:B:322:A:C3'	1:B:322:A:HO3'	2.11	0.57
1:B:445:C:C3'	1:B:470:A:C1'	2.80	0.57
1:B:608:A:C4'	1:B:608:A:H5"	2.17	0.57
1:B:637:A:C5'	1:B:638:G:N7	2.55	0.57
1:B:674:G:C4'	1:B:674:G:H5'	2.19	0.57
1:B:762:U:O2	1:B:762:U:OP2	2.22	0.57
1:B:764:A:C2	1:B:765:C:N4	2.72	0.57
1:B:1117:C:P	1:B:2751:G:C5'	2.92	0.57
1:B:1226:A:C1'	1:B:1226:A:C8	2.77	0.57
1:B:1383:A:C2	1:B:1384:A:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1394:U:O4	1:B:1395:A:N6	2.37	0.57
1:B:1568:G:O5'	1:B:1570:A:C8	2.58	0.57
1:B:1584:U:N3	1:B:1586:A:C4'	2.67	0.57
1:B:1774:C:H2'	1:B:1775:U:OP2	2.04	0.57
1:B:1870:C:N4	1:B:2158:A:C4'	2.67	0.57
1:B:1905:C:H2'	1:B:1928:A:C3'	2.33	0.57
1:B:2060:A:H1'	1:B:2558:C:C2'	2.34	0.57
1:B:2270:A:C1'	1:B:2270:A:C8	2.76	0.57
1:B:2572:A:C1'	1:B:2572:A:C8	2.75	0.57
1:B:2597:G:C1'	1:B:2597:G:C4	2.77	0.57
1:B:122:G:OP2	1:B:125:A:N3	2.38	0.57
1:B:241:A:N7	1:B:275:C:C6	2.73	0.57
1:B:361:G:C1'	1:B:361:G:C8	2.79	0.57
1:B:477:A:H2'	1:B:478:A:P	2.44	0.57
1:B:529:A:N3	1:B:972:A:N7	2.52	0.57
1:B:913:U:N3	1:B:919:U:N3	2.52	0.57
1:B:1021:A:H61	1:B:2481:G:H22	1.46	0.57
1:B:1115:G:C1'	1:B:1115:G:C8	2.79	0.57
1:B:1288:G:C1'	1:B:1288:G:C4	2.77	0.57
1:B:1299:G:C1'	1:B:1626:A:N6	2.67	0.57
1:B:1325:U:C4'	1:B:1325:U:H5'	2.18	0.57
1:B:1417:C:C5	1:B:1466:U:C6	2.92	0.57
1:B:1578:U:OP2	1:B:1579:A:N7	2.38	0.57
1:B:1581:G:C8	1:B:1582:C:C6	2.91	0.57
1:B:1780:A:N7	1:B:1784:A:N1	2.53	0.57
1:B:1853:A:C4	1:B:1855:U:C4'	2.87	0.57
1:B:1912:A:C1'	1:B:1912:A:C8	2.77	0.57
1:B:1935:G:C2	1:B:1939:5MU:H6	2.23	0.57
1:B:1944:U:O5'	1:B:2072:C:OP1	2.22	0.57
1:B:2147:A:C5'	1:B:2148:G:H8	2.02	0.57
1:B:2171:A:C1'	1:B:2171:A:C8	2.76	0.57
1:B:2799:A:C8	1:B:2799:A:OP1	2.57	0.57
1:B:2810:A:C1'	1:B:2810:A:C8	2.76	0.57
1:B:2883:A:C2	1:B:2886:A:P	2.98	0.57
1:B:45:G:H5'	1:B:46:G:H5"	1.87	0.57
1:B:52:A:N6	1:B:118:A:C4'	2.68	0.57
1:B:76:C:H41	1:B:112:U:H5"	1.68	0.57
1:B:98:G:P	1:B:103:A:H1'	2.44	0.57
1:B:100:U:C4	1:B:113:U:O4'	2.57	0.57
1:B:135:U:H5'	1:B:168:G:O3'	2.01	0.57
1:B:141:G:H2'	1:B:1331:G:C2'	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:216:A:O5'	1:B:218:A:O2'	2.23	0.57
1:B:232:G:OP2	1:B:234:U:C4'	2.53	0.57
1:B:265:A:O2'	1:B:369:U:P	2.62	0.57
1:B:411:G:N2	1:B:412:A:C3'	2.57	0.57
1:B:455:C:H4'	1:B:655:A:H2'	1.87	0.57
1:B:525:U:H2'	1:B:811:U:C6	2.38	0.57
1:B:619:G:H1'	1:B:621:A:C5	2.32	0.57
1:B:781:A:N7	1:B:785:G:C4'	2.67	0.57
1:B:804:A:C4'	1:B:1254:A:N1	2.68	0.57
1:B:1048:A:H1'	1:B:1049:C:C4	2.38	0.57
1:B:1236:G:C1'	1:B:1236:G:C4	2.78	0.57
1:B:1448:G:O3'	1:B:1587:G:O2'	2.19	0.57
1:B:1496:A:C1'	1:B:1496:A:C8	2.76	0.57
1:B:1584:U:H1'	1:B:1634:A:O3'	2.03	0.57
1:B:1667:G:O3'	1:B:1669:A:O4'	2.22	0.57
1:B:1791:A:H3'	1:B:1942:C:C4'	2.34	0.57
1:B:1847:A:H5"	1:B:1849:G:P	2.44	0.57
1:B:1882:U:C2	1:B:1883:U:C3'	2.87	0.57
1:B:1884:G:H4'	1:B:1885:A:O5'	2.05	0.57
1:B:1900:A:C2'	1:B:1901:A:C8	2.87	0.57
1:B:1936:A:C2'	1:B:1938:A:C8	2.86	0.57
1:B:1940:U:HO2'	1:B:2063:C:H6	1.53	0.57
1:B:1952:A:O3'	1:B:1956:U:C4	2.57	0.57
1:B:2333:A:C1'	1:B:2333:A:C8	2.76	0.57
1:B:2410:G:H3'	1:B:2411:A:O4'	2.05	0.57
1:B:2462:C:OP2	1:B:2482:A:N6	2.37	0.57
1:B:2884:U:OP1	1:B:2885:G:O5'	2.23	0.57
1:B:28:A:C5	1:B:673:C:O3'	2.58	0.57
1:B:103:A:C2'	1:B:104:A:H8	2.14	0.57
1:B:294:A:C2'	1:B:327:G:H1'	2.35	0.57
1:B:365:U:P	1:B:368:A:C8	2.87	0.57
1:B:371:A:C1'	1:B:371:A:C8	2.76	0.57
1:B:452:G:OP1	1:B:453:A:H5'	2.04	0.57
1:B:525:U:O3'	1:B:525:U:C2'	2.47	0.57
1:B:564:C:O2	1:B:564:C:C2'	2.52	0.57
1:B:655:A:C1'	1:B:655:A:C8	2.78	0.57
1:B:718:A:C1'	1:B:718:A:C8	2.76	0.57
1:B:792:A:C6	1:B:794:A:N7	2.73	0.57
1:B:860:U:C5'	1:B:861:A:P	2.89	0.57
1:B:1016:G:C3'	1:B:2753:A:C8	2.87	0.57
1:B:1021:A:O2'	1:B:1133:A:N6	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1031:G:C8	1:B:1032:A:H5”	2.39	0.57
1:B:1115:G:H3’	1:B:2750:A:OP2	2.05	0.57
1:B:1117:C:C5’	1:B:1129:A:H3’	2.33	0.57
1:B:1117:C:H3’	1:B:2750:A:C2	2.40	0.57
1:B:1136:G:C3’	1:B:1137:G:H5”	2.33	0.57
1:B:1188:U:O2	1:B:1188:U:C2’	2.53	0.57
1:B:1253:A:C1’	1:B:1253:A:C8	2.76	0.57
1:B:1298:C:O2’	1:B:1299:G:O5’	2.18	0.57
1:B:1300:G:C1’	1:B:1300:G:C4	2.79	0.57
1:B:1417:C:O3’	1:B:1635:A:N1	2.38	0.57
1:B:1427:A:C2’	1:B:1430:C:H5”	2.25	0.57
1:B:1584:U:C1’	1:B:1635:A:O5’	2.53	0.57
1:B:1787:A:C4	1:B:2557:G:OP2	2.58	0.57
1:B:1826:G:H5”	1:B:1966:A:O2’	2.04	0.57
1:B:1943:U:O3’	1:B:1943:U:H3’	1.93	0.57
1:B:2114:A:H3’	1:B:2121:G:OP2	2.05	0.57
1:B:2335:A:O3’	1:B:2335:A:H3’	1.90	0.57
1:B:2481:G:H2’	1:B:2481:G:N3	2.20	0.57
1:B:2644:G:OP1	1:B:2644:G:H3’	2.05	0.57
1:B:2733:A:C5’	1:B:2770:G:N2	2.68	0.57
1:B:2733:A:O3’	1:B:2775:G:N2	2.38	0.57
1:B:2903:U:H2’	1:B:2903:U:O2	2.04	0.57
1:B:71:A:C1’	1:B:71:A:C4	2.78	0.57
1:B:91:A:H2’	1:B:498:G:C6	2.39	0.57
1:B:229:C:O2	1:B:433:C:P	2.63	0.57
1:B:263:G:H8	1:B:362:A:OP1	1.88	0.57
1:B:311:A:P	1:B:483:A:N7	2.78	0.57
1:B:443:A:O2’	1:B:444:C:C6	2.54	0.57
1:B:488:G:H2’	1:B:510:C:N4	2.20	0.57
1:B:492:A:C1’	1:B:492:A:C8	2.76	0.57
1:B:585:G:C4’	1:B:1196:C:O5’	2.52	0.57
1:B:602:A:C1’	1:B:602:A:C8	2.77	0.57
1:B:644:A:C1’	1:B:644:A:C8	2.76	0.57
1:B:777:G:N2	1:B:788:A:O2’	2.37	0.57
1:B:788:A:H61	1:B:790:U:H5	1.52	0.57
1:B:864:G:O6	1:B:909:A:OP2	2.23	0.57
1:B:1025:G:O5’	1:B:2469:A:N1	2.37	0.57
1:B:1263:U:C5	1:B:1269:A:C8	2.92	0.57
1:B:1272:A:C4	1:B:1650:A:OP1	2.57	0.57
1:B:1434:A:C1’	1:B:1434:A:C8	2.76	0.57
1:B:1469:A:C5’	1:B:1528:A:N6	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1827:U:OP1	1:B:1968:G:O3'	2.23	0.57
1:B:1854:A:C8	1:B:1858:A:C5'	2.83	0.57
1:B:1866:A:O3'	1:B:1866:A:C2'	2.49	0.57
1:B:2644:G:C1'	1:B:2644:G:C4	2.78	0.57
1:B:2682:A:H4'	1:B:2687:U:O4	2.05	0.57
1:B:2826:A:C1'	1:B:2826:A:C8	2.75	0.57
1:B:89:A:C5'	1:B:94:A:H61	2.17	0.57
1:B:91:A:C3'	1:B:498:G:C6	2.88	0.57
1:B:113:U:OP1	1:B:119:A:H8	1.87	0.57
1:B:127:A:N3	1:B:127:A:O2'	2.22	0.57
1:B:239:C:H5'	1:B:274:C:C3'	2.34	0.57
1:B:242:G:H3'	1:B:242:G:N3	2.20	0.57
1:B:262:A:H4'	1:B:429:A:H5'	1.85	0.57
1:B:465:G:H4'	1:B:479:A:C2	2.40	0.57
1:B:525:U:C5'	1:B:811:U:O2'	2.53	0.57
1:B:1046:A:H5'	1:B:1050:A:OP2	2.04	0.57
1:B:1114:C:H2'	1:B:1115:G:O5'	2.04	0.57
1:B:1130:U:O2'	1:B:2752:C:C3'	2.53	0.57
1:B:1185:G:HO2'	1:B:1186:G:P	2.27	0.57
1:B:1288:G:H2'	1:B:1648:U:C2'	2.35	0.57
1:B:1302:A:C5'	1:B:1303:G:C8	2.88	0.57
1:B:1308:A:C8	1:B:1309:G:H8	2.21	0.57
1:B:1523:U:O2'	1:B:1524:G:C5'	2.52	0.57
1:B:1570:A:C1'	1:B:1572:A:H5'	2.35	0.57
1:B:1583:A:P	1:B:1584:U:H5'	2.45	0.57
1:B:1631:G:C1'	1:B:1631:G:C8	2.78	0.57
1:B:1664:A:C1'	1:B:1664:A:C8	2.76	0.57
1:B:1679:A:C5'	1:B:1679:A:H4'	2.17	0.57
1:B:1692:U:H4'	1:B:1698:A:H8	1.69	0.57
1:B:1940:U:C4	1:B:2553:G:H5'	2.40	0.57
1:B:2114:A:C4'	1:B:2118:U:H1'	2.34	0.57
1:B:2345:G:OP1	1:B:2380:C:C4	2.58	0.57
1:B:2471:A:O3'	1:B:2472:G:C8	2.58	0.57
1:B:14:A:O2'	1:B:1256:G:C8	2.50	0.56
1:B:15:G:O5'	1:B:1256:G:O4'	2.21	0.56
1:B:329:G:H1'	1:B:335:C:H42	1.66	0.56
1:B:482:A:N7	1:B:513:A:C2	2.70	0.56
1:B:529:A:H4'	1:B:530:G:N7	2.20	0.56
1:B:651:G:C1'	1:B:651:G:C8	2.80	0.56
1:B:674:G:C2	1:B:1247:A:H4'	2.38	0.56
1:B:867:C:O2'	1:B:915:C:C5	2.50	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:A:H8	1:B:900:A:C6	2.22	0.56
1:B:1004:U:C2'	1:B:1010:A:OP1	2.35	0.56
1:B:1040:A:H8	1:B:1040:A:OP2	1.86	0.56
1:B:1040:A:O2'	1:B:1041:G:C8	2.57	0.56
1:B:1321:A:O2'	1:B:1322:A:C4'	2.52	0.56
1:B:1370:C:OP1	1:B:1373:A:N6	2.38	0.56
1:B:1450:G:C2'	1:B:1526:C:O2	2.52	0.56
1:B:1466:U:C4'	1:B:1466:U:H5"	2.18	0.56
1:B:1480:C:H2'	1:B:1481:U:H4'	1.83	0.56
1:B:1490:A:H2'	1:B:1494:A:H5"	1.87	0.56
1:B:1702:G:H5"	1:B:1989:G:H8	1.70	0.56
1:B:1720:U:C5'	1:B:1722:A:O2'	2.53	0.56
1:B:1853:A:C2'	1:B:1888:G:O4'	2.53	0.56
1:B:1916:A:H2'	1:B:1917:PSU:H6	1.65	0.56
1:B:1932:A:N9	1:B:1937:A:H3'	2.19	0.56
1:B:1932:A:O3'	1:B:1941:C:N1	2.38	0.56
1:B:2061:G:H2'	1:B:2553:G:O3'	2.04	0.56
1:B:2107:G:OP2	1:B:2111:U:O2	2.23	0.56
1:B:2114:A:C1'	1:B:2114:A:C8	2.79	0.56
1:B:2307:G:C1'	1:B:2307:G:C4	2.76	0.56
1:B:2455:G:N2	1:B:2497:A:C4	2.73	0.56
1:B:2747:G:C1'	1:B:2747:G:C8	2.80	0.56
1:B:34:U:C3'	1:B:35:G:H5'	2.34	0.56
1:B:45:G:C5'	1:B:46:G:P	2.91	0.56
1:B:76:C:C5	1:B:119:A:H2'	2.34	0.56
1:B:110:G:P	1:B:171:U:H5"	2.45	0.56
1:B:137:U:O4'	1:B:1326:U:OP1	2.22	0.56
1:B:176:A:C4'	1:B:177:G:O3'	2.49	0.56
1:B:217:A:N3	1:B:217:A:H2'	2.19	0.56
1:B:428:A:H2'	1:B:428:A:N3	2.20	0.56
1:B:500:G:C1'	1:B:500:G:C4	2.80	0.56
1:B:674:G:C4'	1:B:1249:U:O3'	2.54	0.56
1:B:675:A:H3'	1:B:676:A:N9	2.20	0.56
1:B:699:A:C1'	1:B:699:A:C4	2.77	0.56
1:B:706:A:O2'	1:B:707:G:O5'	2.23	0.56
1:B:764:A:C4	1:B:765:C:C5	2.93	0.56
1:B:820:A:C3'	1:B:2628:C:O2	2.53	0.56
1:B:1040:A:C3'	1:B:1050:A:H1'	2.35	0.56
1:B:1117:C:H5"	1:B:2751:G:H5'	0.60	0.56
1:B:1224:U:H2'	1:B:1225:G:C8	2.40	0.56
1:B:1281:G:C3'	1:B:1282:U:C5'	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1294:U:H3'	1:B:1295:C:P	2.45	0.56
1:B:1299:G:C1'	1:B:1299:G:C4	2.78	0.56
1:B:1348:C:O2'	1:B:1349:C:OP2	2.22	0.56
1:B:1392:A:H8	1:B:1393:A:H5'	1.70	0.56
1:B:1416:G:C5'	1:B:1637:A:H5"	2.35	0.56
1:B:1428:C:H1'	1:B:1630:A:C1'	2.35	0.56
1:B:1572:A:N1	1:B:1573:G:C5'	2.61	0.56
1:B:1672:A:N6	1:B:1673:G:C2	2.73	0.56
1:B:1702:G:H5'	1:B:1989:G:N7	2.19	0.56
1:B:1758:U:H1'	1:B:1760:C:C5	2.40	0.56
1:B:1942:C:H5"	1:B:2441:U:HO2'	1.53	0.56
1:B:1942:C:OP1	1:B:2441:U:C4'	2.53	0.56
1:B:1962:C:O2	1:B:1962:C:H2'	2.04	0.56
1:B:2411:A:C1'	1:B:2411:A:C8	2.76	0.56
1:B:2449:5MU:O2	1:B:2449:5MU:OP2	2.22	0.56
1:B:2529:G:C1'	1:B:2529:G:C4	2.76	0.56
1:B:2682:A:H2'	1:B:2720:U:H2'	1.85	0.56
1:B:2775:G:HO2'	1:B:2776:A:P	2.28	0.56
1:B:25:U:H1'	1:B:26:G:N7	2.20	0.56
1:B:28:A:C2	1:B:674:G:C5'	2.88	0.56
1:B:50:U:O3'	1:B:50:U:C4'	2.51	0.56
1:B:71:A:O3'	1:B:100:U:O2	2.23	0.56
1:B:87:U:C1'	1:B:497:A:H3'	2.32	0.56
1:B:215:G:C8	1:B:216:A:C5'	2.89	0.56
1:B:229:C:N3	1:B:432:A:O3'	2.38	0.56
1:B:262:A:O5'	1:B:429:A:H4'	2.03	0.56
1:B:283:G:H4'	1:B:372:G:N9	2.20	0.56
1:B:443:A:C1'	1:B:444:C:H5	2.15	0.56
1:B:453:A:O5'	1:B:478:A:H1'	2.05	0.56
1:B:457:A:C5'	1:B:458:G:O2'	2.53	0.56
1:B:561:G:C1'	1:B:561:G:C8	2.79	0.56
1:B:573:U:C3'	1:B:2045:C:OP2	2.52	0.56
1:B:586:A:C1'	1:B:586:A:C8	2.80	0.56
1:B:764:A:N3	1:B:765:C:C5	2.73	0.56
1:B:781:A:OP2	1:B:786:C:H5	1.89	0.56
1:B:782:A:C5'	1:B:783:A:C5	2.86	0.56
1:B:805:G:H5'	1:B:1254:A:O2'	2.05	0.56
1:B:834:G:C5'	1:B:977:G:C5'	2.81	0.56
1:B:845:A:C6	1:B:846:U:C5	2.93	0.56
1:B:877:A:C1'	1:B:877:A:C8	2.77	0.56
1:B:911:A:H4'	1:B:912:C:OP2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:912:C:HO2'	1:B:913:U:C5'	2.17	0.56
1:B:1023:U:C2'	1:B:2465:C:H41	2.16	0.56
1:B:1040:A:C8	1:B:1050:A:O2'	2.57	0.56
1:B:1134:A:O3'	1:B:1141:U:O5'	2.23	0.56
1:B:1223:G:C8	1:B:1224:U:C1'	2.84	0.56
1:B:1272:A:O2'	1:B:1273:U:P	2.62	0.56
1:B:1273:U:O3'	1:B:1275:A:OP2	2.24	0.56
1:B:1299:G:H22	1:B:1643:G:C2'	2.18	0.56
1:B:1320:C:O3'	1:B:1323:C:H5'	2.05	0.56
1:B:1329:U:C4'	1:B:1330:C:C6	2.72	0.56
1:B:1351:C:H5"	1:B:1352:U:OP2	2.05	0.56
1:B:1351:C:H4'	1:B:1352:U:OP2	2.05	0.56
1:B:1425:G:C5'	1:B:1565:C:HO2'	2.18	0.56
1:B:1465:G:C5'	1:B:1466:U:C5'	2.83	0.56
1:B:1468:U:O2'	1:B:1527:G:H1'	2.05	0.56
1:B:1523:U:C4'	1:B:1528:A:C8	2.88	0.56
1:B:1524:G:C1'	1:B:1524:G:C8	2.80	0.56
1:B:1568:G:H5'	1:B:1570:A:OP1	2.05	0.56
1:B:1581:G:C1'	1:B:1581:G:C8	2.77	0.56
1:B:1609:A:H1'	1:B:1621:U:O2'	2.01	0.56
1:B:1905:C:O3'	1:B:1928:A:OP1	2.23	0.56
1:B:1932:A:C1'	1:B:1937:A:O3'	2.53	0.56
1:B:1933:G:C4	1:B:1939:5MU:O5'	2.59	0.56
1:B:2060:A:C5	1:B:2550:G:N2	2.71	0.56
1:B:2144:G:H5"	1:B:2145:C:OP1	2.05	0.56
1:B:2202:U:O3'	1:B:2203:U:O3'	2.23	0.56
1:B:2237:G:C1'	1:B:2237:G:C4	2.76	0.56
1:B:2319:G:H8	1:B:2322:A:N6	2.02	0.56
1:B:2322:A:C3'	1:B:2323:G:C5'	2.70	0.56
1:B:2330:G:C2'	1:B:2331:G:H5'	2.35	0.56
1:B:2381:A:C3'	1:B:2382:G:P	2.91	0.56
1:B:2502:G:N2	1:B:2769:U:OP1	2.38	0.56
1:B:2713:U:O2'	1:B:2714:G:OP1	2.18	0.56
1:B:2777:G:C1'	1:B:2777:G:C4	2.77	0.56
1:B:2808:G:C1'	1:B:2808:G:C8	2.80	0.56
1:B:2867:G:H2'	1:B:2868:A:C2	2.40	0.56
1:B:15:G:OP2	1:B:1256:G:H8	1.86	0.56
1:B:66:C:OP2	1:B:68:G:H1'	2.05	0.56
1:B:100:U:OP2	1:B:120:U:P	2.63	0.56
1:B:101:A:N7	1:B:102:U:C5	2.71	0.56
1:B:453:A:C1'	1:B:453:A:C8	2.75	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:527:C:C4	1:B:1189:A:H2'	2.40	0.56
1:B:535:G:O3'	1:B:950:G:H1'	2.05	0.56
1:B:560:C:H2'	1:B:561:G:H4'	1.87	0.56
1:B:802:A:H5"	1:B:1254:A:P	2.46	0.56
1:B:861:A:H1'	1:B:863:A:N1	2.21	0.56
1:B:1061:U:O4'	1:B:1070:A:C1'	2.52	0.56
1:B:1133:A:C1'	1:B:1133:A:C8	2.77	0.56
1:B:1452:G:O2'	1:B:1529:G:O6	2.22	0.56
1:B:1453:A:H3'	1:B:1527:G:OP1	2.06	0.56
1:B:1510:G:C4'	1:B:1511:G:C8	2.88	0.56
1:B:1571:A:N1	1:B:1572:A:H3'	2.19	0.56
1:B:1674:G:O4'	1:B:1680:U:O5'	2.24	0.56
1:B:1870:C:H6	1:B:1872:A:N6	2.03	0.56
1:B:1952:A:C1'	1:B:1952:A:C4	2.78	0.56
1:B:1966:A:C1'	1:B:1966:A:C8	2.76	0.56
1:B:2345:G:H1'	1:B:2382:G:O4'	1.99	0.56
1:B:2498:5MC:CM5	1:B:2657:A:O3'	2.54	0.56
1:B:2602:A:N1	1:B:2603:G:C6	2.73	0.56
1:B:28:A:H2'	1:B:29:U:OP2	2.06	0.56
1:B:60:G:C1'	1:B:60:G:C4	2.77	0.56
1:B:98:G:N7	1:B:102:U:H5	2.01	0.56
1:B:102:U:H3	1:B:119:A:H61	1.54	0.56
1:B:141:G:C1'	1:B:141:G:C8	2.79	0.56
1:B:451:U:O4	1:B:464:U:H5'	2.05	0.56
1:B:488:G:O2'	1:B:510:C:H5	1.79	0.56
1:B:518:G:OP1	1:B:1247:A:C6	2.58	0.56
1:B:566:U:H5	1:B:836:G:H5'	1.67	0.56
1:B:630:G:C1'	1:B:630:G:C8	2.80	0.56
1:B:654:A:C1'	1:B:654:A:C8	2.75	0.56
1:B:1016:G:C5'	1:B:2753:A:H8	2.17	0.56
1:B:1022:G:C1'	1:B:1022:G:C4	2.79	0.56
1:B:1046:A:H5"	1:B:1051:G:OP2	2.05	0.56
1:B:1048:A:C5'	1:B:1049:C:C2	2.88	0.56
1:B:1253:A:C5'	1:B:1254:A:O4'	2.50	0.56
1:B:1372:U:O2	1:B:1372:U:C2'	2.54	0.56
1:B:1477:A:H2'	1:B:1478:G:OP1	2.05	0.56
1:B:1551:A:OP2	1:B:1552:A:N3	2.38	0.56
1:B:1584:U:C2	1:B:1586:A:O5'	2.58	0.56
1:B:1668:A:C1'	1:B:1668:A:C8	2.77	0.56
1:B:1838:C:C6	1:B:1903:G:N2	2.73	0.56
1:B:1847:A:C1'	1:B:1847:A:C8	2.77	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1853:A:C2'	1:B:1888:G:C1'	2.84	0.56
1:B:1871:A:C2	1:B:2132:U:O5'	2.58	0.56
1:B:1928:A:C1'	1:B:1928:A:C8	2.75	0.56
1:B:1941:C:C2'	1:B:1942:C:P	2.93	0.56
1:B:1955:U:C6	1:B:2057:G:O3'	2.59	0.56
1:B:1955:U:C5	1:B:2057:G:O3'	2.58	0.56
1:B:2050:C:O3'	1:B:2052:A:OP2	2.23	0.56
1:B:2055:C:H5"	1:B:2056:G:OP1	2.05	0.56
1:B:2111:U:C1'	1:B:2112:G:H4'	2.33	0.56
1:B:2115:G:C1'	1:B:2115:G:C8	2.77	0.56
1:B:2127:G:H4'	1:B:2167:U:O2	2.05	0.56
1:B:2639:A:H2'	1:B:2777:G:N7	2.21	0.56
1:B:2639:A:O2'	1:B:2777:G:N7	2.35	0.56
1:B:2808:G:H1'	1:B:2809:A:N7	2.19	0.56
1:B:2851:A:O5'	1:B:2871:U:C5	2.45	0.56
1:B:19:A:OP1	1:B:669:G:N7	2.39	0.56
1:B:22:C:H5"	1:B:511:U:H3'	1.87	0.56
1:B:69:C:H5'	1:B:85:G:H5"	1.85	0.56
1:B:75:G:HO2'	1:B:119:A:P	2.28	0.56
1:B:215:G:H5"	1:B:219:A:H5"	1.87	0.56
1:B:240:C:C5'	1:B:276:U:P	2.90	0.56
1:B:247:G:C6	1:B:251:A:H2	2.24	0.56
1:B:264:C:H5"	1:B:369:U:O2'	2.04	0.56
1:B:324:A:O3'	1:B:324:A:H3'	1.99	0.56
1:B:366:C:OP1	1:B:367:G:H5"	2.04	0.56
1:B:370:G:C1'	1:B:370:G:C8	2.80	0.56
1:B:451:U:C3'	1:B:453:A:OP2	2.54	0.56
1:B:489:G:C1'	1:B:489:G:C4	2.79	0.56
1:B:509:C:C5'	1:B:510:C:OP2	2.43	0.56
1:B:512:G:O2'	1:B:513:A:H5"	2.04	0.56
1:B:528:A:H2'	1:B:529:A:O5'	2.06	0.56
1:B:598:U:H5"	1:B:936:A:O2'	2.05	0.56
1:B:675:A:H5"	1:B:676:A:C6	2.41	0.56
1:B:984:A:C2'	1:B:985:C:C6	2.78	0.56
1:B:1225:G:C1'	1:B:1225:G:C4	2.76	0.56
1:B:1255:U:H2'	1:B:1256:G:H5'	1.86	0.56
1:B:1299:G:C2	1:B:1300:G:C8	2.89	0.56
1:B:1302:A:C5'	1:B:1303:G:N7	2.68	0.56
1:B:1312:U:C5'	1:B:1640:A:HO2'	2.18	0.56
1:B:1367:A:C1'	1:B:1367:A:C8	2.76	0.56
1:B:1447:C:N4	1:B:1543:G:N2	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1523:U:H2'	1:B:1524:G:C4'	2.35	0.56
1:B:1655:A:C2	1:B:1656:C:C1'	2.89	0.56
1:B:1689:A:N3	1:B:1692:U:C5	2.73	0.56
1:B:1856:U:O2	1:B:1856:U:C2'	2.52	0.56
1:B:1886:U:N1	1:B:1886:U:OP2	2.38	0.56
1:B:1933:G:C1'	1:B:1939:5MU:O5'	2.54	0.56
1:B:1963:U:H3'	1:B:1964:G:H5"	1.87	0.56
1:B:1971:U:C4'	1:B:2443:C:OP1	2.54	0.56
1:B:2060:A:O2'	1:B:2558:C:C1'	2.53	0.56
1:B:2263:C:OP1	1:B:2424:C:N1	2.38	0.56
1:B:2361:G:C1'	1:B:2361:G:C4	2.79	0.56
1:B:11:C:C2'	1:B:1195:G:H2'	2.36	0.56
1:B:101:A:C8	1:B:102:U:C4	2.91	0.56
1:B:180:G:C6	1:B:199:A:OP1	2.59	0.56
1:B:446:G:OP1	1:B:472:A:O4'	2.23	0.56
1:B:574:A:OP2	1:B:2044:C:H5"	2.05	0.56
1:B:760:G:H5'	1:B:761:A:H4'	1.86	0.56
1:B:804:A:O5'	1:B:1254:A:C6	2.59	0.56
1:B:866:A:C2'	1:B:915:C:C1'	2.60	0.56
1:B:913:U:C4	1:B:917:A:C3'	2.86	0.56
1:B:915:C:OP2	1:B:916:G:C2'	2.53	0.56
1:B:983:A:C8	1:B:984:A:C6	2.93	0.56
1:B:1129:A:C1'	1:B:1129:A:C8	2.77	0.56
1:B:1417:C:C6	1:B:1636:U:C4'	2.87	0.56
1:B:1477:A:C3'	1:B:1478:G:H5'	2.36	0.56
1:B:1522:A:OP1	1:B:1530:G:OP2	2.23	0.56
1:B:1565:C:H4'	1:B:1566:A:O5'	2.04	0.56
1:B:1584:U:C6	1:B:1586:A:OP1	2.58	0.56
1:B:1677:A:P	1:B:1685:C:OP2	2.64	0.56
1:B:1790:C:C4'	1:B:2443:C:H5'	2.35	0.56
1:B:1818:U:OP1	1:B:1819:A:O3'	2.23	0.56
1:B:1934:C:OP2	1:B:1941:C:O4'	2.23	0.56
1:B:1934:C:OP1	1:B:1935:G:C5'	2.53	0.56
1:B:1938:A:H4'	1:B:1938:A:H5'	1.86	0.56
1:B:1943:U:O2'	1:B:2072:C:H5'	2.05	0.56
1:B:1971:U:C1'	1:B:1973:G:OP1	2.47	0.56
1:B:2059:A:C4	1:B:2555:U:C6	2.93	0.56
1:B:2061:G:H21	1:B:2553:G:H3'	1.71	0.56
1:B:2108:A:H5'	1:B:2110:G:H2'	1.85	0.56
1:B:2643:G:H3'	1:B:2644:G:C5'	2.36	0.56
1:B:2821:A:C2'	1:B:2822:G:C5'	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:A:C4	1:B:101:A:N6	2.74	0.56
1:B:158:U:OP2	1:B:160:A:N6	2.39	0.56
1:B:249:C:H6	1:B:249:C:P	2.29	0.56
1:B:338:G:C1'	1:B:338:G:C4	2.78	0.56
1:B:442:G:H5"	1:B:443:A:OP2	2.06	0.56
1:B:449:A:C5'	1:B:452:G:N9	2.69	0.56
1:B:449:A:C3'	1:B:452:G:N3	2.69	0.56
1:B:499:U:N3	1:B:505:A:C2	2.74	0.56
1:B:530:G:H5"	1:B:948:C:O3'	2.04	0.56
1:B:672:C:H5	1:B:1251:C:C4	2.24	0.56
1:B:801:G:C1'	1:B:801:G:C4	2.79	0.56
1:B:971:G:C2'	1:B:972:A:C2	2.84	0.56
1:B:1024:G:O5'	1:B:2466:C:OP2	2.24	0.56
1:B:1026:G:C1'	1:B:1026:G:C4	2.80	0.56
1:B:1130:U:C2'	1:B:2753:A:OP2	2.53	0.56
1:B:1142:A:C1'	1:B:1142:A:C8	2.81	0.56
1:B:1254:A:H2'	1:B:1254:A:N3	2.21	0.56
1:B:1391:U:H2'	1:B:1391:U:O2	2.06	0.56
1:B:1673:G:C5'	1:B:1678:A:N7	2.69	0.56
1:B:1754:A:C6	1:B:1990:C:OP1	2.59	0.56
1:B:1847:A:H5"	1:B:1849:G:OP2	2.05	0.56
1:B:1847:A:N3	1:B:1889:A:H5'	2.15	0.56
1:B:1857:G:N3	1:B:1858:A:OP1	2.38	0.56
1:B:1889:A:C1'	1:B:1889:A:C8	2.75	0.56
1:B:1954:G:C1'	1:B:1954:G:C4	2.77	0.56
1:B:2211:A:H2'	1:B:2212:A:OP2	2.05	0.56
1:B:2682:A:H2'	1:B:2720:U:C1'	2.35	0.56
1:B:2763:G:C5'	1:B:2765:A:N6	2.69	0.56
1:B:2867:G:C1'	1:B:2867:G:C8	2.79	0.56
1:B:9:G:H2'	1:B:526:A:H4'	1.86	0.56
1:B:10:A:H4'	1:B:525:U:C4'	2.36	0.56
1:B:53:A:C1'	1:B:53:A:C8	2.78	0.56
1:B:61:C:C2	1:B:496:G:OP1	2.59	0.56
1:B:240:C:O3'	1:B:275:C:H5"	2.06	0.56
1:B:263:G:O3'	1:B:370:G:O5'	2.24	0.56
1:B:293:U:H2'	1:B:295:G:N7	2.21	0.56
1:B:453:A:O5'	1:B:478:A:H2'	2.06	0.56
1:B:453:A:H62	1:B:477:A:N6	2.04	0.56
1:B:528:A:OP2	1:B:1189:A:N7	2.39	0.56
1:B:529:A:H2	1:B:972:A:C5	2.23	0.56
1:B:572:A:H5'	1:B:2620:C:P	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:A:C5’	1:B:2044:C:P	2.93	0.56
1:B:577:G:N7	1:B:579:G:C1’	2.69	0.56
1:B:612:G:C1’	1:B:612:G:C8	2.80	0.56
1:B:674:G:H5’	1:B:1249:U:C3’	2.35	0.56
1:B:804:A:C5’	1:B:1254:A:C6	2.89	0.56
1:B:1048:A:H5’	1:B:1049:C:C2	2.41	0.56
1:B:1050:A:C4’	1:B:1051:G:P	2.94	0.56
1:B:1130:U:O3’	1:B:2752:C:O3’	2.23	0.56
1:B:1211:C:C5	1:B:1236:G:N3	2.74	0.56
1:B:1377:G:C3’	1:B:1378:A:C2	2.78	0.56
1:B:1382:G:H4’	1:B:1383:A:OP2	2.06	0.56
1:B:1428:C:H42	1:B:1637:A:H1’	1.71	0.56
1:B:1453:A:C1’	1:B:1453:A:C8	2.80	0.56
1:B:1474:U:H2’	1:B:1475:G:O5’	2.05	0.56
1:B:1524:G:O5’	1:B:1527:G:C5’	2.53	0.56
1:B:1527:G:HO2’	1:B:1528:A:P	2.29	0.56
1:B:1693:U:C4	1:B:2705:A:C2	2.94	0.56
1:B:1891:G:C1’	1:B:1891:G:C4	2.81	0.56
1:B:2031:A:C2’	1:B:2032:G:H5’	2.35	0.56
1:B:2298:A:OP1	1:B:2298:A:H8	1.88	0.56
1:B:2309:A:C1’	1:B:2309:A:C8	2.76	0.56
1:B:2755:C:H2’	1:B:2756:U:C1’	2.36	0.56
1:B:2765:A:H2’	1:B:2765:A:N3	2.20	0.56
1:B:2799:A:O5’	1:B:2800:A:N7	2.39	0.56
1:B:2834:G:H2’	1:B:2879:A:N6	2.20	0.56
1:B:91:A:P	1:B:91:A:O4’	2.64	0.56
1:B:99:U:C3’	1:B:102:U:N1	2.68	0.56
1:B:138:U:O2	1:B:139:U:H5”	2.05	0.56
1:B:157:C:C3’	1:B:158:U:P	2.94	0.56
1:B:164:C:O2’	1:B:165:A:H5’	2.06	0.56
1:B:714:U:H3	1:B:715:A:N6	2.04	0.56
1:B:792:A:C1’	1:B:792:A:C8	2.75	0.56
1:B:804:A:C5’	1:B:1254:A:H61	2.19	0.56
1:B:867:C:H3’	1:B:868:U:C5	2.40	0.56
1:B:931:U:OP1	1:B:934:U:H5	1.87	0.56
1:B:960:A:C5’	1:B:961:C:OP2	2.54	0.56
1:B:1047:G:H4’	1:B:1049:C:O2	2.06	0.56
1:B:1110:G:C1’	1:B:1110:G:C8	2.81	0.56
1:B:1130:U:O2’	1:B:2752:C:H4’	2.05	0.56
1:B:1130:U:C4	1:B:2749:A:O2’	2.58	0.56
1:B:1236:G:H5”	1:B:1237:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1271:G:O3'	1:B:1649:G:OP2	2.22	0.56
1:B:1321:A:O2'	1:B:1322:A:H5"	2.04	0.56
1:B:1392:A:H62	1:B:1394:U:H2'	1.71	0.56
1:B:1450:G:H2'	1:B:1526:C:O2	2.05	0.56
1:B:1480:C:H3'	1:B:1481:U:H5'	1.78	0.56
1:B:1568:G:O3'	1:B:1570:A:C6	2.59	0.56
1:B:1571:A:H2	1:B:1572:A:O3'	1.88	0.56
1:B:1598:A:C1'	1:B:1598:A:C8	2.76	0.56
1:B:1609:A:H8	1:B:1622:G:H5'	1.71	0.56
1:B:1672:A:P	1:B:1672:A:O4'	2.63	0.56
1:B:1847:A:N3	1:B:2231:U:O2'	2.38	0.56
1:B:1855:U:C2	1:B:1884:G:C2'	2.88	0.56
1:B:1935:G:C1'	1:B:1935:G:C4	2.80	0.56
1:B:1963:U:O2	1:B:1963:U:C2'	2.53	0.56
1:B:2167:U:O3'	1:B:2168:G:O3'	2.24	0.56
1:B:2377:A:C5	1:B:2394:C:H2'	2.41	0.56
1:B:2379:G:C1'	1:B:2393:U:O2'	2.48	0.56
1:B:2392:A:C1'	1:B:2392:A:C8	2.77	0.56
1:B:2685:G:H8	1:B:2722:G:N2	2.03	0.56
1:B:27:G:N1	1:B:673:C:N4	2.54	0.55
1:B:78:U:C5	1:B:102:U:O2	2.58	0.55
1:B:84:A:C6	1:B:86:G:O6	2.59	0.55
1:B:92:U:O2'	1:B:499:U:P	2.63	0.55
1:B:98:G:C6	1:B:105:C:N4	2.74	0.55
1:B:144:A:OP2	1:B:1328:A:C2	2.57	0.55
1:B:185:G:H21	1:B:218:A:H62	1.51	0.55
1:B:213:A:N6	1:B:218:A:C3'	2.62	0.55
1:B:266:G:OP1	1:B:368:A:H5"	2.06	0.55
1:B:320:A:H4'	1:B:324:A:N3	2.18	0.55
1:B:332:A:H2	1:B:333:G:O4'	1.88	0.55
1:B:772:C:OP1	1:B:785:G:O2'	2.22	0.55
1:B:1021:A:O2'	1:B:2463:C:OP1	2.21	0.55
1:B:1189:A:C5'	1:B:1190:G:O4'	2.51	0.55
1:B:1225:G:H5"	1:B:1226:A:OP1	2.06	0.55
1:B:1289:C:P	1:B:1649:G:H5'	2.45	0.55
1:B:1299:G:N3	1:B:1300:G:C8	2.74	0.55
1:B:1302:A:C1'	1:B:1302:A:C8	2.76	0.55
1:B:1325:U:C5'	1:B:1325:U:O4'	2.52	0.55
1:B:1359:A:N6	1:B:1371:G:C4'	2.70	0.55
1:B:1383:A:C2	1:B:1384:A:C5	2.94	0.55
1:B:1427:A:C8	1:B:1566:A:N1	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1453:A:H2'	1:B:1526:C:P	2.46	0.55
1:B:1477:A:N3	1:B:1478:G:H4'	2.20	0.55
1:B:1566:A:H1'	1:B:1567:G:C8	2.41	0.55
1:B:1934:C:P	1:B:1935:G:O5'	2.63	0.55
1:B:2060:A:N6	1:B:2448:A:C1'	2.67	0.55
1:B:2166:U:O2'	1:B:2168:G:C5'	2.54	0.55
1:B:2400:G:O5'	1:B:2408:U:OP1	2.23	0.55
1:B:2532:G:C1'	1:B:2532:G:C8	2.81	0.55
1:B:2713:U:C4'	1:B:2714:G:OP1	2.53	0.55
1:B:2903:U:C4'	1:B:2903:U:H5"	2.17	0.55
1:B:27:G:C1'	1:B:27:G:C8	2.78	0.55
1:B:77:G:P	1:B:99:U:N1	2.79	0.55
1:B:84:A:N3	1:B:84:A:OP2	2.39	0.55
1:B:90:U:O2'	1:B:91:A:OP1	2.24	0.55
1:B:112:U:C5'	1:B:112:U:O4'	2.50	0.55
1:B:120:U:C5	1:B:148:U:OP2	2.59	0.55
1:B:124:G:N3	1:B:124:G:H2'	2.21	0.55
1:B:213:A:C1'	1:B:213:A:C8	2.78	0.55
1:B:239:C:P	1:B:274:C:C3'	2.94	0.55
1:B:330:A:C1'	1:B:330:A:C8	2.77	0.55
1:B:400:G:C1'	1:B:400:G:C4	2.77	0.55
1:B:524:G:OP1	1:B:587:C:O5'	2.25	0.55
1:B:570:G:C1'	1:B:570:G:C4	2.76	0.55
1:B:574:A:H5"	1:B:2044:C:O5'	2.03	0.55
1:B:802:A:N6	1:B:1199:U:C1'	2.50	0.55
1:B:867:C:C5'	1:B:868:U:C5	2.82	0.55
1:B:905:A:C3'	1:B:906:U:H5'	2.36	0.55
1:B:913:U:C6	1:B:917:A:N7	2.73	0.55
1:B:1111:A:OP2	1:B:1111:A:C4'	2.51	0.55
1:B:1129:A:C5'	1:B:2751:G:H5"	2.36	0.55
1:B:1187:G:C1'	1:B:1187:G:C8	2.80	0.55
1:B:1242:U:O5'	1:B:1243:C:O4'	2.23	0.55
1:B:1298:C:H5"	1:B:1339:G:N3	2.22	0.55
1:B:1566:A:O2'	1:B:1567:G:P	2.64	0.55
1:B:1570:A:C2	1:B:1572:A:P	2.99	0.55
1:B:1641:A:N6	1:B:1642:G:N7	2.55	0.55
1:B:1675:C:P	1:B:1678:A:H5"	2.46	0.55
1:B:1692:U:O2	1:B:1697:G:O2'	2.20	0.55
1:B:1714:U:C6	1:B:1714:U:OP1	2.59	0.55
1:B:1782:U:C4	1:B:1783:A:N6	2.74	0.55
1:B:1875:G:C1'	1:B:1875:G:C8	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1930:G:C1'	1:B:1930:G:C8	2.77	0.55
1:B:2111:U:C1'	1:B:2111:U:C2	2.84	0.55
1:B:2268:A:O2'	1:B:2269:G:H8	1.89	0.55
1:B:2296:U:O2'	1:B:2297:A:C5'	2.45	0.55
1:B:2345:G:O2'	1:B:2382:G:N3	2.39	0.55
1:B:2587:A:H2'	1:B:2587:A:N3	2.21	0.55
1:B:2734:A:C8	1:B:2776:A:O2'	2.59	0.55
1:B:84:A:N7	1:B:85:G:C5	2.75	0.55
1:B:86:G:N2	1:B:497:A:N7	2.50	0.55
1:B:182:A:C1'	1:B:182:A:C8	2.76	0.55
1:B:217:A:O5'	1:B:218:A:C4'	2.48	0.55
1:B:236:C:H5	1:B:277:G:C8	2.24	0.55
1:B:270:A:C2'	1:B:271:G:P	2.91	0.55
1:B:447:A:H3'	1:B:448:U:C5'	2.35	0.55
1:B:472:A:H2'	1:B:473:G:C4'	2.36	0.55
1:B:577:G:C1'	1:B:577:G:C8	2.80	0.55
1:B:685:A:C1'	1:B:685:A:C8	2.76	0.55
1:B:802:A:C8	1:B:1252:G:C6	2.94	0.55
1:B:1116:G:C2'	1:B:1117:C:C6	2.87	0.55
1:B:1122:G:C1'	1:B:1122:G:C8	2.81	0.55
1:B:1289:C:O4'	1:B:1648:U:C3'	2.54	0.55
1:B:1449:G:H5'	1:B:1587:G:C4'	2.36	0.55
1:B:1454:C:N4	1:B:1470:A:O2'	2.40	0.55
1:B:1522:A:C1'	1:B:1522:A:C8	2.79	0.55
1:B:1676:A:OP1	1:B:1678:A:H3'	2.06	0.55
1:B:1757:A:H1'	1:B:1760:C:C2	2.41	0.55
1:B:1790:C:P	1:B:1971:U:O5'	2.64	0.55
1:B:1802:A:H61	1:B:1813:G:C2'	2.11	0.55
1:B:1938:A:HO2'	1:B:1941:C:H5	1.54	0.55
1:B:2167:U:OP2	1:B:2168:G:H4'	2.05	0.55
1:B:2286:G:C1'	1:B:2286:G:C4	2.77	0.55
1:B:2325:G:N2	1:B:2326:C:C5	2.75	0.55
1:B:2461:A:O5'	1:B:2482:A:N6	2.36	0.55
1:B:2751:G:C1'	1:B:2751:G:C4	2.80	0.55
1:B:9:G:N2	1:B:526:A:H2'	2.21	0.55
1:B:75:G:C3'	1:B:119:A:H5'	2.32	0.55
1:B:275:C:H2'	1:B:275:C:O2	2.07	0.55
1:B:458:G:C5'	1:B:594:U:OP1	2.55	0.55
1:B:491:G:C1'	1:B:491:G:C8	2.80	0.55
1:B:565:C:O5'	1:B:836:G:N7	2.39	0.55
1:B:670:A:C1'	1:B:670:A:C8	2.82	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:772:C:O2'	1:B:784:G:C2	2.60	0.55
1:B:775:G:C5'	1:B:776:G:OP2	2.55	0.55
1:B:784:G:N3	1:B:784:G:H2'	2.22	0.55
1:B:905:A:H2'	1:B:906:U:C5'	2.35	0.55
1:B:1020:A:N3	1:B:1020:A:H2'	2.21	0.55
1:B:1028:A:O2'	1:B:1144:A:H2	1.89	0.55
1:B:1050:A:O3'	1:B:1050:A:H4'	2.06	0.55
1:B:1137:G:O2'	1:B:2583:G:N9	2.39	0.55
1:B:1453:A:H5'	1:B:1524:G:H8	1.70	0.55
1:B:1468:U:H3	1:B:1527:G:P	2.29	0.55
1:B:1528:A:H3'	1:B:1529:G:OP1	2.06	0.55
1:B:1608:A:N3	1:B:1622:G:H5"	2.15	0.55
1:B:1674:G:N7	1:B:1675:C:C5'	2.44	0.55
1:B:1723:G:H3'	1:B:1723:G:N3	2.21	0.55
1:B:2112:G:C1'	1:B:2112:G:C8	2.81	0.55
1:B:2119:A:C1'	1:B:2119:A:C8	2.77	0.55
1:B:2128:G:H1'	1:B:2168:G:H2'	1.88	0.55
1:B:2134:A:C1'	1:B:2134:A:C8	2.78	0.55
1:B:2364:C:C3'	1:B:2366:A:O2'	2.54	0.55
1:B:2377:A:OP2	1:B:2377:A:H4'	2.07	0.55
1:B:2643:G:H5"	1:B:2644:G:P	2.43	0.55
1:B:2821:A:H2'	1:B:2822:G:H5"	1.87	0.55
1:B:2869:G:C2'	1:B:2870:C:O5'	2.54	0.55
1:B:221:A:C2'	1:B:222:A:C2'	2.84	0.55
1:B:229:C:H3'	1:B:230:G:H8	1.71	0.55
1:B:332:A:C1'	1:B:332:A:C8	2.76	0.55
1:B:389:G:C1'	1:B:389:G:C8	2.80	0.55
1:B:450:G:O6	1:B:666:A:N3	2.40	0.55
1:B:499:U:O2	1:B:500:G:H1'	2.06	0.55
1:B:507:A:C1'	1:B:507:A:C8	2.79	0.55
1:B:514:A:H4'	1:B:669:G:N3	2.22	0.55
1:B:789:A:C1'	1:B:789:A:C8	2.75	0.55
1:B:805:G:N2	1:B:1251:C:C5'	2.70	0.55
1:B:858:G:C6	1:B:913:U:C2	2.93	0.55
1:B:1105:U:O2'	1:B:1106:G:C5'	2.53	0.55
1:B:1305:C:C5'	1:B:1646:C:C4	2.88	0.55
1:B:1320:C:P	1:B:1323:C:OP2	2.65	0.55
1:B:1418:G:H8	1:B:1632:A:H62	1.48	0.55
1:B:1476:U:C4'	1:B:1516:G:C5'	2.85	0.55
1:B:1610:A:C6	1:B:1612:C:H5	2.22	0.55
1:B:1781:U:C5	1:B:1782:U:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1801:A:N3	1:B:1816:C:O2'	2.35	0.55
1:B:1807:G:C1'	1:B:1807:G:C8	2.81	0.55
1:B:1943:U:H2'	1:B:2072:C:C5'	2.35	0.55
1:B:1943:U:OP1	1:B:2441:U:H1'	2.05	0.55
1:B:1964:G:O2'	1:B:1965:C:OP1	2.24	0.55
1:B:1977:A:C1'	1:B:1977:A:C8	2.78	0.55
1:B:2061:G:C4'	1:B:2554:U:O2	2.51	0.55
1:B:2077:A:N3	1:B:2244:U:C5	2.75	0.55
1:B:2169:A:C1'	1:B:2169:A:C8	2.76	0.55
1:B:2273:A:C3'	1:B:2274:A:H5'	2.36	0.55
1:B:2322:A:O5'	1:B:2322:A:OP2	2.25	0.55
1:B:2543:G:C5'	1:B:2610:C:N3	2.70	0.55
1:B:2682:A:C5	1:B:2688:G:H1'	2.40	0.55
1:B:2685:G:C2	1:B:2723:C:H5'	2.41	0.55
1:B:87:U:O2	1:B:497:A:O3'	2.25	0.55
1:B:111:A:OP1	1:B:170:U:O5'	2.25	0.55
1:B:143:C:H5"	1:B:1328:A:C4'	2.37	0.55
1:B:211:C:O2'	1:B:213:A:O4'	2.25	0.55
1:B:231:A:H2'	1:B:234:U:C6	2.41	0.55
1:B:262:A:OP1	1:B:429:A:C2'	2.54	0.55
1:B:374:A:C1'	1:B:374:A:C8	2.76	0.55
1:B:601:C:C4'	1:B:604:G:H5'	2.35	0.55
1:B:788:A:N1	1:B:790:U:H5	2.04	0.55
1:B:885:C:H5"	1:B:886:A:OP2	2.06	0.55
1:B:990:A:N9	1:B:1157:G:OP1	2.40	0.55
1:B:1012:U:O2'	1:B:1013:C:C6	2.59	0.55
1:B:1285:A:H2	1:B:2012:G:C5'	2.19	0.55
1:B:1287:A:C2	1:B:1648:U:O2	2.59	0.55
1:B:1586:A:O2'	1:B:1587:G:O5'	2.23	0.55
1:B:1608:A:O3'	1:B:1608:A:H3'	1.93	0.55
1:B:1652:A:H2	1:B:2006:C:C1'	2.18	0.55
1:B:1933:G:O2'	1:B:1939:5MU:O4'	2.24	0.55
1:B:1941:C:OP2	1:B:2062:A:N3	2.40	0.55
1:B:2051:A:N3	1:B:2610:C:OP1	2.39	0.55
1:B:2059:A:H1'	1:B:2445:G:H4'	1.87	0.55
1:B:2062:A:OP1	1:B:2446:G:O6	2.24	0.55
1:B:2067:G:C5'	1:B:2439:A:C5'	2.85	0.55
1:B:2086:U:O2'	1:B:2087:G:P	2.64	0.55
1:B:2129:C:C2'	1:B:2130:U:O5'	2.55	0.55
1:B:2245:U:O2'	1:B:2246:G:OP1	2.18	0.55
1:B:2320:U:H5"	1:B:2322:A:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2365:G:O5'	1:B:2366:A:C2'	2.55	0.55
1:B:2682:A:O3'	1:B:2683:C:C5	2.60	0.55
1:B:2733:A:C4'	1:B:2770:G:H22	2.19	0.55
1:B:2776:A:C1'	1:B:2776:A:C8	2.76	0.55
1:B:22:C:H4'	1:B:511:U:H2'	1.89	0.55
1:B:77:G:P	1:B:99:U:C1'	2.94	0.55
1:B:93:G:C2'	1:B:498:G:H3'	2.34	0.55
1:B:140:C:H2'	1:B:141:G:N9	2.20	0.55
1:B:227:A:H5"	1:B:229:C:H42	1.70	0.55
1:B:241:A:C5	1:B:275:C:H6	2.25	0.55
1:B:263:G:OP1	1:B:429:A:H5'	2.07	0.55
1:B:442:G:C3'	1:B:443:A:H5'	2.34	0.55
1:B:528:A:C1'	1:B:528:A:C8	2.75	0.55
1:B:670:A:H4'	1:B:670:A:H5'	1.74	0.55
1:B:857:G:C5'	1:B:858:G:N7	2.70	0.55
1:B:960:A:C1'	1:B:960:A:C8	2.76	0.55
1:B:1020:A:H4'	1:B:1026:G:N2	2.21	0.55
1:B:1040:A:C1'	1:B:1040:A:C8	2.75	0.55
1:B:1043:C:H2'	1:B:1044:C:H5'	1.87	0.55
1:B:1045:C:H5	1:B:1051:G:C1'	2.19	0.55
1:B:1205:A:C2'	1:B:1206:G:N7	2.68	0.55
1:B:1241:A:H2	1:B:1242:U:C6	2.24	0.55
1:B:1305:C:O2'	1:B:1310:G:C2	2.59	0.55
1:B:1392:A:N6	1:B:1394:U:H2'	2.22	0.55
1:B:1424:G:N7	1:B:1567:G:OP2	2.40	0.55
1:B:1451:C:O2	1:B:1457:U:O4	2.24	0.55
1:B:1521:G:C8	1:B:1522:A:N3	2.74	0.55
1:B:1522:A:H2'	1:B:1528:A:C1'	2.36	0.55
1:B:1582:C:O3'	1:B:1584:U:C5'	2.53	0.55
1:B:1597:A:C3'	1:B:1598:A:H5'	2.24	0.55
1:B:1651:G:H2'	1:B:1652:A:O5'	2.07	0.55
1:B:1668:A:C4'	1:B:1669:A:O5'	2.53	0.55
1:B:1737:G:C1'	1:B:1737:G:C8	2.78	0.55
1:B:1818:U:P	1:B:1819:A:O3'	2.65	0.55
1:B:1856:U:O2'	1:B:1890:A:C2	2.59	0.55
1:B:2113:U:C4'	1:B:2113:U:H5'	2.17	0.55
1:B:2316:G:OP1	1:B:2319:G:O4'	2.25	0.55
1:B:2497:A:C2'	1:B:2665:A:O4'	2.54	0.55
1:B:2667:C:O2'	1:B:2668:G:O4'	2.24	0.55
1:B:2687:U:C2'	1:B:2688:G:O5'	2.52	0.55
1:B:2738:A:H8	1:B:2741:A:N1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2887:A:N3	1:B:2887:A:H2'	2.22	0.55
1:B:9:G:C1'	1:B:9:G:C4	2.82	0.55
1:B:32:C:H41	1:B:33:C:N4	2.04	0.55
1:B:110:G:O3'	1:B:170:U:O3'	2.24	0.55
1:B:138:U:C2	1:B:139:U:H5"	2.38	0.55
1:B:264:C:OP1	1:B:370:G:H5"	2.05	0.55
1:B:266:G:O5'	1:B:368:A:H5'	2.03	0.55
1:B:317:G:H5'	1:B:321:U:O4	2.06	0.55
1:B:412:A:H2'	1:B:413:C:C5	2.36	0.55
1:B:432:A:C1'	1:B:432:A:C8	2.78	0.55
1:B:457:A:H62	1:B:658:U:P	2.30	0.55
1:B:489:G:OP1	1:B:509:C:N4	2.39	0.55
1:B:803:U:H6	1:B:1254:A:O3'	1.77	0.55
1:B:1021:A:C2'	1:B:2463:C:OP1	2.55	0.55
1:B:1039:A:H3'	1:B:1040:A:C8	2.42	0.55
1:B:1127:A:H2'	1:B:1128:G:OP1	2.07	0.55
1:B:1136:G:C1'	1:B:1136:G:C8	2.80	0.55
1:B:1186:G:C1'	1:B:1186:G:C4	2.77	0.55
1:B:1241:A:H2	1:B:1242:U:H6	1.55	0.55
1:B:1294:U:C5	1:B:1295:C:C6	2.95	0.55
1:B:1325:U:C4'	1:B:1325:U:H5"	2.18	0.55
1:B:1426:G:OP2	1:B:1566:A:N3	2.40	0.55
1:B:1453:A:O2'	1:B:1525:A:H5"	2.06	0.55
1:B:1758:U:O2'	1:B:1760:C:C5	2.54	0.55
1:B:1855:U:C5'	1:B:1884:G:N2	2.70	0.55
1:B:1891:G:C4'	1:B:1892:C:C5	2.89	0.55
1:B:2058:A:C5	1:B:2068:U:O2	2.60	0.55
1:B:2060:A:C8	1:B:2559:C:H1'	2.42	0.55
1:B:2114:A:OP1	1:B:2115:G:C8	2.60	0.55
1:B:2131:U:O2	1:B:2131:U:C2'	2.53	0.55
1:B:2454:G:O3'	1:B:2454:G:H3'	1.93	0.55
1:B:2502:G:C1'	1:B:2502:G:C8	2.81	0.55
1:B:2503:A:C4'	1:B:2504:U:O5'	2.55	0.55
1:B:2542:A:N7	1:B:2610:C:C5	2.75	0.55
1:B:2654:A:C5	1:B:2655:G:N2	2.75	0.55
1:B:2866:U:H2'	1:B:2867:G:C1'	2.36	0.55
1:B:43:G:C6	1:B:44:A:C5	2.95	0.55
1:B:124:G:O6	1:B:126:A:H3'	2.07	0.55
1:B:215:G:C1'	1:B:257:C:H6	2.18	0.55
1:B:226:A:H62	1:B:431:U:H4'	1.72	0.55
1:B:320:A:C1'	1:B:320:A:C4	2.81	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:G:H2'	1:B:446:G:N3	2.22	0.55
1:B:450:G:O2'	1:B:451:U:H4'	2.05	0.55
1:B:636:G:H2'	1:B:636:G:N3	2.22	0.55
1:B:780:G:H2'	1:B:780:G:N3	2.21	0.55
1:B:845:A:O3'	1:B:845:A:C2'	2.51	0.55
1:B:861:A:C5'	1:B:861:A:O4'	2.51	0.55
1:B:1123:C:H41	1:B:1126:A:N6	2.05	0.55
1:B:1135:C:H6	1:B:1140:C:O4'	1.89	0.55
1:B:1451:C:P	1:B:1455:G:H4'	2.47	0.55
1:B:1465:G:H5'	1:B:1466:U:C5'	2.35	0.55
1:B:1520:U:C1'	1:B:1521:G:C8	2.84	0.55
1:B:1828:G:O6	1:B:2442:C:O2	2.24	0.55
1:B:1966:A:O3'	1:B:1967:C:C3'	2.54	0.55
1:B:2015:A:H1'	1:B:2017:U:O4	2.07	0.55
1:B:2157:G:C1'	1:B:2157:G:C8	2.81	0.55
1:B:2320:U:H5'	1:B:2322:A:OP2	2.07	0.55
1:B:2461:A:P	1:B:2482:A:N6	2.80	0.55
1:B:2602:A:C6	1:B:2603:G:C6	2.93	0.55
1:B:2748:A:C6	1:B:2756:U:C5	2.94	0.55
1:B:2845:U:C4'	1:B:2868:A:H1'	2.37	0.55
1:B:2851:A:N3	1:B:2868:A:C6	2.74	0.55
1:B:2859:G:C3'	1:B:2860:A:C5'	2.85	0.55
1:B:2860:A:OP2	1:B:2861:U:H5	1.90	0.55
1:B:93:G:OP1	1:B:499:U:O5'	2.25	0.55
1:B:97:C:H3'	1:B:103:A:H1'	1.84	0.55
1:B:100:U:C6	1:B:113:U:C5'	2.90	0.55
1:B:256:A:C1'	1:B:256:A:C8	2.79	0.55
1:B:263:G:O6	1:B:361:G:H5'	2.05	0.55
1:B:446:G:C1'	1:B:446:G:C8	2.76	0.55
1:B:446:G:H1	1:B:480:A:H5'	1.71	0.55
1:B:460:A:C4'	1:B:461:C:OP1	2.55	0.55
1:B:647:G:P	1:B:653:U:H5"	2.45	0.55
1:B:739:A:C2'	1:B:740:C:H5"	2.36	0.55
1:B:810:U:H1'	1:B:1196:C:H42	1.69	0.55
1:B:830:G:C5'	1:B:831:G:OP2	2.51	0.55
1:B:838:C:OP2	1:B:975:A:H2'	2.05	0.55
1:B:1021:A:N6	1:B:2481:G:N2	2.47	0.55
1:B:1024:G:H5'	1:B:2466:C:OP2	2.04	0.55
1:B:1024:G:C3'	1:B:2470:G:N7	2.71	0.55
1:B:1024:G:O2'	1:B:1025:G:P	2.65	0.55
1:B:1024:G:C5'	1:B:2468:A:O5'	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1026:G:H4'	1:B:2477:U:OP2	2.07	0.55
1:B:1116:G:C1'	1:B:1116:G:C8	2.80	0.55
1:B:1235:G:C1'	1:B:1235:G:C8	2.79	0.55
1:B:1508:A:O2'	1:B:1509:A:OP1	2.24	0.55
1:B:1522:A:H3'	1:B:1528:A:H2'	0.60	0.55
1:B:1597:A:O5'	1:B:1598:A:H4'	2.07	0.55
1:B:1608:A:C2'	1:B:1622:G:P	2.94	0.55
1:B:1718:G:O3'	1:B:1720:U:C6	2.60	0.55
1:B:1852:U:C3'	1:B:1885:A:C1'	2.85	0.55
1:B:1936:A:C8	1:B:1938:A:C1'	2.89	0.55
1:B:2023:C:O3'	1:B:2024:G:P	2.65	0.55
1:B:2058:A:C6	1:B:2068:U:C2'	2.84	0.55
1:B:2060:A:H3'	1:B:2447:G:OP1	2.06	0.55
1:B:2361:G:H3'	1:B:2362:C:H5"	1.89	0.55
1:B:2468:A:C4'	1:B:2469:A:N6	2.70	0.55
1:B:2509:G:O3'	1:B:2585:U:O4	2.25	0.55
1:B:2685:G:C8	1:B:2687:U:P	3.00	0.55
1:B:2726:A:C5'	1:B:2727:A:C4'	2.85	0.55
1:B:77:G:P	1:B:120:U:O5'	2.65	0.54
1:B:100:U:OP2	1:B:119:A:O3'	2.24	0.54
1:B:206:U:H3'	1:B:207:A:H5"	1.90	0.54
1:B:225:C:O2'	1:B:431:U:H3'	2.06	0.54
1:B:322:A:C4'	1:B:323:C:OP1	2.54	0.54
1:B:500:G:C2'	1:B:505:A:C1'	2.82	0.54
1:B:500:G:C4	1:B:504:A:OP2	2.59	0.54
1:B:575:A:H5'	1:B:576:U:OP2	2.07	0.54
1:B:683:U:H5"	1:B:684:G:OP2	2.06	0.54
1:B:785:G:C1'	1:B:785:G:C8	2.81	0.54
1:B:912:C:O4'	1:B:914:G:OP2	2.25	0.54
1:B:920:A:C2	1:B:2597:G:O6	2.60	0.54
1:B:1021:A:N6	1:B:2481:G:C2	2.73	0.54
1:B:1026:G:O4'	1:B:2477:U:H5'	2.06	0.54
1:B:1049:C:H3'	1:B:1051:G:OP2	2.06	0.54
1:B:1131:G:C1'	1:B:1131:G:C4	2.81	0.54
1:B:1189:A:C1'	1:B:1189:A:C8	2.76	0.54
1:B:1197:G:O2'	1:B:1198:U:H5'	2.07	0.54
1:B:1205:A:C8	1:B:1211:C:N3	2.76	0.54
1:B:1267:U:C6	1:B:1647:U:C5	2.95	0.54
1:B:1366:A:N7	1:B:1367:A:N6	2.55	0.54
1:B:1456:G:H2'	1:B:1457:U:C6	2.42	0.54
1:B:1468:U:O2	1:B:1527:G:O5'	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1701:A:C1'	1:B:1701:A:C8	2.77	0.54
1:B:1827:U:C5	1:B:1829:A:C5'	2.89	0.54
1:B:1837:C:O2	1:B:1838:C:C6	2.60	0.54
1:B:1853:A:O4'	1:B:1855:U:N3	2.39	0.54
1:B:1930:G:OP2	1:B:1932:A:H5"	2.07	0.54
1:B:1936:A:H5"	1:B:1938:A:C3'	2.38	0.54
1:B:1978:A:C8	1:B:1979:U:H4'	2.42	0.54
1:B:2471:A:O3'	1:B:2472:G:H3'	2.07	0.54
1:B:2849:U:P	1:B:2872:A:O3'	2.65	0.54
1:B:15:G:H4'	1:B:1197:G:N3	2.22	0.54
1:B:26:G:C1'	1:B:26:G:C8	2.77	0.54
1:B:87:U:HO3'	1:B:88:G:P	2.27	0.54
1:B:92:U:C4'	1:B:499:U:OP2	2.54	0.54
1:B:98:G:O2'	1:B:102:U:C3'	2.55	0.54
1:B:99:U:O5'	1:B:102:U:H2'	1.95	0.54
1:B:120:U:O4'	1:B:148:U:OP1	2.26	0.54
1:B:178:G:N7	1:B:179:C:N4	2.54	0.54
1:B:187:G:O2'	1:B:218:A:P	2.65	0.54
1:B:227:A:O4'	1:B:355:U:OP1	2.24	0.54
1:B:266:G:N2	1:B:269:C:C4	2.75	0.54
1:B:367:G:O2'	1:B:368:A:C2	2.26	0.54
1:B:397:U:C2	1:B:398:C:C6	2.94	0.54
1:B:447:A:H2	1:B:465:G:H8	1.55	0.54
1:B:529:A:N1	1:B:947:A:H1'	2.22	0.54
1:B:699:A:O3'	1:B:699:A:C2'	2.51	0.54
1:B:761:A:N1	1:B:762:U:C4	2.76	0.54
1:B:810:U:H1'	1:B:1196:C:H41	1.56	0.54
1:B:834:G:C4'	1:B:977:G:H4'	2.35	0.54
1:B:839:U:C5'	1:B:961:C:C5	2.82	0.54
1:B:842:U:O4	1:B:932:U:C1'	2.54	0.54
1:B:846:U:O2	1:B:846:U:C2'	2.54	0.54
1:B:1311:G:C5'	1:B:1643:G:OP2	2.55	0.54
1:B:1320:C:H3'	1:B:1323:C:H5'	1.89	0.54
1:B:1326:U:C6	1:B:1327:A:P	3.00	0.54
1:B:1358:G:H1	1:B:1370:C:H42	1.51	0.54
1:B:1421:G:O6	1:B:1568:G:N7	2.41	0.54
1:B:1454:C:P	1:B:1524:G:H5"	2.48	0.54
1:B:1494:A:C1'	1:B:1494:A:C8	2.76	0.54
1:B:1572:A:H2'	1:B:1572:A:N3	2.23	0.54
1:B:1928:A:H5"	1:B:1938:A:OP2	2.07	0.54
1:B:1947:C:H4'	1:B:1963:U:H2'	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1954:G:O3'	1:B:1955:U:H6	1.89	0.54
1:B:2358:A:H3'	1:B:2358:A:OP2	2.07	0.54
1:B:2496:C:N4	1:B:2498:5MC:O5'	2.39	0.54
1:B:2675:A:C2'	1:B:2677:G:OP2	2.55	0.54
1:B:2791:G:OP2	1:B:2891:U:O3'	2.25	0.54
1:B:2820:A:C5	1:B:2821:A:N7	2.76	0.54
1:B:98:G:C5'	1:B:103:A:P	2.90	0.54
1:B:265:A:C1'	1:B:369:U:H1'	2.38	0.54
1:B:293:U:C3'	1:B:295:G:N7	2.70	0.54
1:B:308:G:C1'	1:B:308:G:C8	2.81	0.54
1:B:453:A:O4'	1:B:478:A:C1'	2.55	0.54
1:B:529:A:H62	1:B:941:A:C5'	2.19	0.54
1:B:529:A:N3	1:B:973:A:OP2	2.39	0.54
1:B:787:C:O2	1:B:788:A:H3'	2.07	0.54
1:B:861:A:N3	1:B:862:G:O6	2.40	0.54
1:B:931:U:P	1:B:934:U:H5	2.31	0.54
1:B:1281:G:H3'	1:B:1282:U:C5'	2.38	0.54
1:B:1412:U:OP2	1:B:1585:C:OP2	2.25	0.54
1:B:1463:C:C1'	1:B:1467:U:H1'	2.27	0.54
1:B:1472:C:OP2	1:B:1515:A:C5	2.60	0.54
1:B:1477:A:C4	1:B:1478:G:H5'	2.41	0.54
1:B:1522:A:OP1	1:B:1529:G:O5'	2.24	0.54
1:B:1569:A:P	1:B:1573:G:C8	3.00	0.54
1:B:1674:G:P	1:B:1678:A:H61	2.30	0.54
1:B:1692:U:H4'	1:B:1698:A:C8	2.41	0.54
1:B:1695:G:C1'	1:B:1695:G:C4	2.79	0.54
1:B:1695:G:O3'	1:B:2703:C:C4	2.61	0.54
1:B:1714:U:OP2	1:B:1716:U:O4	2.26	0.54
1:B:1760:C:O2	1:B:1760:C:H2'	2.07	0.54
1:B:1854:A:N1	1:B:1858:A:C5	2.75	0.54
1:B:1929:G:H5'	1:B:1930:G:OP1	2.06	0.54
1:B:1935:G:N3	1:B:1939:5MU:O4'	2.40	0.54
1:B:2111:U:C2	1:B:2112:G:OP1	2.60	0.54
1:B:2741:A:O2'	1:B:2742:G:H5'	2.08	0.54
1:B:15:G:C1'	1:B:15:G:C8	2.76	0.54
1:B:15:G:C8	1:B:16:C:H4'	2.42	0.54
1:B:220:G:C1'	1:B:220:G:C8	2.82	0.54
1:B:221:A:N7	1:B:279:A:H5'	2.19	0.54
1:B:317:G:C2'	1:B:319:G:N7	2.70	0.54
1:B:434:U:O2'	1:B:435:C:OP1	2.23	0.54
1:B:449:A:P	1:B:478:A:O3'	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:A:O2'	1:B:505:A:O2'	2.15	0.54
1:B:526:A:H2'	1:B:526:A:N3	2.23	0.54
1:B:571:U:O4'	1:B:573:U:OP1	2.26	0.54
1:B:726:G:C1'	1:B:726:G:C8	2.80	0.54
1:B:799:G:OP2	1:B:801:G:H8	1.90	0.54
1:B:806:C:O3'	1:B:808:G:C8	2.61	0.54
1:B:920:A:OP1	1:B:921:C:C1'	2.54	0.54
1:B:941:A:H4'	1:B:941:A:H5"	1.86	0.54
1:B:1009:A:C1'	1:B:1009:A:C8	2.78	0.54
1:B:1024:G:C1'	1:B:1024:G:C8	2.79	0.54
1:B:1284:A:C4'	1:B:2012:G:C8	2.91	0.54
1:B:1428:C:HO2'	1:B:1429:G:H5'	1.71	0.54
1:B:1459:G:O2'	1:B:1461:C:OP2	2.21	0.54
1:B:1459:G:O6	1:B:1462:C:N4	2.41	0.54
1:B:1523:U:C2'	1:B:1524:G:C4'	2.86	0.54
1:B:1560:G:C1'	1:B:1560:G:C8	2.81	0.54
1:B:1744:A:N3	1:B:1746:A:OP1	2.41	0.54
1:B:1931:U:C5'	1:B:1935:G:O5'	2.43	0.54
1:B:1934:C:O2'	1:B:1935:G:OP1	2.23	0.54
1:B:1942:C:O5'	1:B:2441:U:O3'	2.26	0.54
1:B:1981:A:C2'	1:B:1982:U:H6	2.12	0.54
1:B:2086:U:O3'	1:B:2086:U:OP2	2.26	0.54
1:B:2263:C:H5"	1:B:2424:C:O2	2.07	0.54
1:B:2318:G:C1'	1:B:2318:G:C8	2.81	0.54
1:B:2469:A:N3	1:B:2469:A:O5'	2.41	0.54
1:B:2482:A:H4'	1:B:2484:G:OP2	2.07	0.54
1:B:2685:G:H8	1:B:2722:G:H21	1.55	0.54
1:B:2873:A:C1'	1:B:2873:A:C8	2.77	0.54
1:B:45:G:C4'	1:B:46:G:P	2.96	0.54
1:B:77:G:P	1:B:99:U:C2'	2.96	0.54
1:B:84:A:C2	1:B:84:A:OP2	2.61	0.54
1:B:196:A:O2'	1:B:197:A:N7	2.36	0.54
1:B:214:G:HO2'	1:B:219:A:C5'	2.21	0.54
1:B:255:A:H2	1:B:276:U:C5	2.25	0.54
1:B:257:C:H3'	1:B:258:G:H5'	1.89	0.54
1:B:367:G:C1'	1:B:367:G:C8	2.80	0.54
1:B:372:G:C1'	1:B:372:G:C8	2.82	0.54
1:B:482:A:N6	1:B:512:G:C2	2.68	0.54
1:B:571:U:O5'	1:B:572:A:O5'	2.25	0.54
1:B:1021:A:N6	1:B:2481:G:H1	2.06	0.54
1:B:1110:G:H3'	1:B:1111:A:C5'	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1205:A:H61	1:B:1241:A:N6	2.06	0.54
1:B:1427:A:C1'	1:B:1427:A:C8	2.81	0.54
1:B:1451:C:OP1	1:B:1455:G:O5'	2.26	0.54
1:B:1522:A:OP2	1:B:1522:A:O4'	2.24	0.54
1:B:1674:G:C3'	1:B:1679:A:O2'	2.55	0.54
1:B:1929:G:P	1:B:1932:A:H5'	2.47	0.54
1:B:1937:A:C4'	1:B:1938:A:OP2	2.55	0.54
1:B:2055:C:C4'	1:B:2056:G:OP1	2.56	0.54
1:B:2493:U:H2'	1:B:2498:5MC:C1'	2.20	0.54
1:B:2556:C:N3	1:B:2558:C:H5'	2.22	0.54
1:B:2629:U:C5'	1:B:2630:G:O3'	2.53	0.54
1:B:2674:G:H5"	1:B:2675:A:OP1	2.08	0.54
1:B:2764:A:OP1	1:B:2765:A:N7	2.41	0.54
1:B:2779:U:H3'	1:B:2781:A:H1'	1.88	0.54
1:B:75:G:H5"	1:B:113:U:C4'	2.37	0.54
1:B:222:A:C1'	1:B:222:A:C8	2.82	0.54
1:B:263:G:H5'	1:B:359:G:C2'	2.32	0.54
1:B:371:A:O2'	1:B:372:G:H5'	2.08	0.54
1:B:448:U:H2'	1:B:478:A:C8	2.43	0.54
1:B:516:C:H5"	1:B:1248:G:C4'	2.38	0.54
1:B:674:G:H5'	1:B:1249:U:C5'	2.37	0.54
1:B:676:A:OP2	1:B:676:A:H2	1.90	0.54
1:B:857:G:C4'	1:B:857:G:O3'	2.50	0.54
1:B:896:A:O3'	1:B:896:A:C2'	2.51	0.54
1:B:1292:G:OP1	1:B:1310:G:C4	2.60	0.54
1:B:1298:C:C5'	1:B:1339:G:N3	2.70	0.54
1:B:1468:U:H1'	1:B:1527:G:C1'	2.37	0.54
1:B:1610:A:N6	1:B:1613:G:N9	2.52	0.54
1:B:1667:G:HO3'	1:B:1668:A:P	2.26	0.54
1:B:1826:G:C4'	1:B:1966:A:H4'	2.34	0.54
1:B:1853:A:C4	1:B:1855:U:O4'	2.60	0.54
1:B:1870:C:H2'	1:B:1871:A:H8	1.72	0.54
1:B:1954:G:C3'	1:B:1955:U:C5	2.91	0.54
1:B:2032:G:C1'	1:B:2032:G:C8	2.81	0.54
1:B:2377:A:H3'	1:B:2394:C:H3'	1.89	0.54
1:B:2405:G:C1'	1:B:2405:G:C8	2.82	0.54
1:B:2438:U:HO2'	1:B:2439:A:P	2.31	0.54
1:B:2445:G:H5'	1:B:2555:U:H5	1.72	0.54
1:B:2821:A:N3	1:B:2822:G:H5"	2.22	0.54
1:B:56:A:O2'	1:B:57:C:O4'	2.22	0.54
1:B:63:A:C5'	1:B:64:A:OP2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:C:O5'	1:B:120:U:P	2.64	0.54
1:B:458:G:H5'	1:B:594:U:OP1	2.08	0.54
1:B:669:G:C4'	1:B:669:G:H5'	2.22	0.54
1:B:782:A:C5'	1:B:783:A:C4	2.91	0.54
1:B:988:A:C1'	1:B:988:A:C8	2.77	0.54
1:B:1272:A:C8	1:B:1649:G:O3'	2.60	0.54
1:B:1284:A:O5'	1:B:2012:G:N9	2.40	0.54
1:B:1352:U:OP1	1:B:1354:A:N7	2.41	0.54
1:B:1459:G:C1'	1:B:1459:G:C8	2.79	0.54
1:B:1568:G:C1'	1:B:1568:G:C8	2.80	0.54
1:B:1627:G:N3	1:B:1641:A:C8	2.75	0.54
1:B:1801:A:C2	1:B:1816:C:H1'	2.43	0.54
1:B:1803:A:C3'	1:B:1804:C:C5'	2.79	0.54
1:B:1837:C:O2	1:B:1838:C:H6	1.91	0.54
1:B:2062:A:H5"	1:B:2063:C:H5	1.70	0.54
1:B:2112:G:C2'	1:B:2178:C:C6	2.90	0.54
1:B:2627:G:N3	1:B:2627:G:H2'	2.23	0.54
1:B:2754:U:C5'	1:B:2755:C:O5'	2.55	0.54
1:B:64:A:H8	1:B:66:C:C4	2.13	0.54
1:B:77:G:OP2	1:B:120:U:OP2	2.25	0.54
1:B:77:G:HO2'	1:B:147:C:P	2.30	0.54
1:B:118:A:C1'	1:B:118:A:C8	2.82	0.54
1:B:135:U:H4'	1:B:169:G:C5'	2.35	0.54
1:B:180:G:C1'	1:B:180:G:C8	2.81	0.54
1:B:247:G:C1'	1:B:247:G:C8	2.81	0.54
1:B:263:G:C1'	1:B:263:G:C8	2.80	0.54
1:B:507:A:H2	1:B:517:C:O2'	1.89	0.54
1:B:507:A:C3'	1:B:1245:G:OP1	2.55	0.54
1:B:578:G:H5'	1:B:579:G:C5'	2.25	0.54
1:B:637:A:O3'	1:B:637:A:C2'	2.52	0.54
1:B:676:A:OP2	1:B:676:A:N3	2.41	0.54
1:B:697:G:H2'	1:B:698:C:C6	2.43	0.54
1:B:744:U:H5'	1:B:2615:U:OP2	2.07	0.54
1:B:762:U:O3'	1:B:763:G:C5'	2.56	0.54
1:B:850:U:HO3'	1:B:851:C:H6	1.56	0.54
1:B:858:G:H5"	1:B:859:G:P	2.48	0.54
1:B:867:C:C4'	1:B:915:C:C5	2.90	0.54
1:B:1271:G:H2'	1:B:1271:G:N3	2.22	0.54
1:B:1285:A:C2	1:B:2012:G:C5'	2.90	0.54
1:B:1292:G:H4'	1:B:1310:G:OP2	2.07	0.54
1:B:1359:A:OP1	1:B:1359:A:H2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1464:G:O6	1:B:1544:A:O2'	2.22	0.54
1:B:1476:U:C5	1:B:1517:G:C8	2.95	0.54
1:B:1480:C:O2'	1:B:1481:U:C4'	2.54	0.54
1:B:1610:A:N1	1:B:1612:C:OP2	2.40	0.54
1:B:1689:A:C1'	1:B:1689:A:C8	2.78	0.54
1:B:1778:U:H1'	1:B:2556:C:C5'	2.30	0.54
1:B:1833:C:O2	1:B:1931:U:H5"	2.08	0.54
1:B:1853:A:C5	1:B:1855:U:H4'	2.42	0.54
1:B:1928:A:H5'	1:B:1937:A:P	2.48	0.54
1:B:1947:C:H5'	1:B:1963:U:C2	2.42	0.54
1:B:2085:U:C2'	1:B:2086:U:H5'	2.38	0.54
1:B:2134:A:H3'	1:B:2134:A:N3	2.23	0.54
1:B:2156:G:C1'	1:B:2156:G:C8	2.78	0.54
1:B:2214:C:O2'	1:B:2215:C:C5'	2.33	0.54
1:B:2325:G:C1'	1:B:2325:G:C8	2.80	0.54
1:B:2639:A:C2'	1:B:2777:G:N7	2.71	0.54
1:B:2762:C:C4'	1:B:2765:A:N6	2.63	0.54
1:B:2870:C:C3'	1:B:2872:A:H4'	2.37	0.54
1:B:15:G:H5'	1:B:1197:G:C2'	2.38	0.54
1:B:93:G:H8	1:B:499:U:P	2.28	0.54
1:B:99:U:O2'	1:B:100:U:OP2	2.26	0.54
1:B:178:G:H3'	1:B:179:C:C6	2.43	0.54
1:B:220:G:C2'	1:B:277:G:O3'	2.56	0.54
1:B:402:A:C5'	1:B:403:U:C4	2.80	0.54
1:B:412:A:O5'	1:B:2406:A:N7	2.41	0.54
1:B:570:G:N2	1:B:2043:C:C3'	2.58	0.54
1:B:619:G:H4'	1:B:620:G:OP1	2.08	0.54
1:B:745:7MG:C3'	1:B:748:G:H2'	2.38	0.54
1:B:759:G:O2'	1:B:761:A:O3'	2.21	0.54
1:B:776:G:C1'	1:B:776:G:C8	2.79	0.54
1:B:802:A:O3'	1:B:1253:A:O3'	2.25	0.54
1:B:810:U:C6	1:B:1196:C:C4	2.96	0.54
1:B:867:C:C3'	1:B:868:U:C5	2.90	0.54
1:B:899:A:C4'	1:B:902:C:H1'	2.37	0.54
1:B:971:G:O2'	1:B:972:A:C2	2.42	0.54
1:B:1235:G:N2	1:B:1236:G:H22	2.06	0.54
1:B:1417:C:C5'	1:B:1636:U:O2'	2.56	0.54
1:B:1670:C:C2	1:B:1749:A:H4'	2.43	0.54
1:B:1803:A:C5'	1:B:1804:C:O4'	2.56	0.54
1:B:1884:G:O3'	1:B:1886:U:P	2.66	0.54
1:B:2060:A:H8	1:B:2448:A:C2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2061:G:H4'	1:B:2554:U:C2	2.42	0.54
1:B:2374:C:H4'	1:B:2413:G:H5"	1.89	0.54
1:B:2496:C:H3'	1:B:2497:A:C5'	2.29	0.54
1:B:2799:A:C8	1:B:2799:A:P	2.98	0.54
1:B:10:A:O4'	1:B:525:U:H4'	2.07	0.54
1:B:15:G:C2'	1:B:16:C:H5'	2.38	0.54
1:B:99:U:O3'	1:B:101:A:C8	2.61	0.54
1:B:168:G:C1'	1:B:168:G:C8	2.80	0.54
1:B:221:A:C2'	1:B:222:A:O5'	2.56	0.54
1:B:224:U:O3'	1:B:281:C:C5	2.61	0.54
1:B:264:C:H5	1:B:429:A:N6	2.01	0.54
1:B:307:G:C1'	1:B:307:G:C8	2.80	0.54
1:B:411:G:C1'	1:B:411:G:C8	2.78	0.54
1:B:506:G:N2	1:B:1244:A:O2'	2.40	0.54
1:B:507:A:C4'	1:B:1245:G:OP1	2.55	0.54
1:B:571:U:C5'	1:B:572:A:O3'	2.56	0.54
1:B:575:A:N6	1:B:2625:G:O2'	2.41	0.54
1:B:643:A:N3	1:B:643:A:H2'	2.23	0.54
1:B:840:C:O4'	1:B:963:U:H5'	2.07	0.54
1:B:861:A:C4'	1:B:862:G:H8	2.11	0.54
1:B:862:G:H2'	1:B:863:A:O5'	2.07	0.54
1:B:864:G:C2	1:B:909:A:N7	2.76	0.54
1:B:1363:C:C5	1:B:1365:A:H8	2.25	0.54
1:B:1433:A:O4'	1:B:1558:C:O2	2.25	0.54
1:B:1551:A:N6	1:B:1553:A:O5'	2.41	0.54
1:B:1552:A:C6	1:B:1555:G:H5'	2.35	0.54
1:B:1672:A:N9	1:B:1673:G:C3'	2.70	0.54
1:B:1690:A:C1'	1:B:1690:A:C8	2.77	0.54
1:B:1736:U:H5	1:B:1739:A:H4'	1.72	0.54
1:B:1801:A:C1'	1:B:1801:A:C8	2.79	0.54
1:B:1827:U:OP1	1:B:1969:A:P	2.66	0.54
1:B:2067:G:P	1:B:2439:A:O5'	2.66	0.54
1:B:2076:U:OP2	1:B:2077:A:H5'	2.08	0.54
1:B:2110:G:C1'	1:B:2110:G:C4	2.79	0.54
1:B:2345:G:N3	1:B:2382:G:O2'	2.33	0.54
1:B:2365:G:C4'	1:B:2366:A:C1'	2.55	0.54
1:B:2468:A:H5"	1:B:2469:A:N1	2.23	0.54
1:B:2571:U:O5'	1:B:2647:U:H4'	2.08	0.54
1:B:2638:G:C1'	1:B:2638:G:C8	2.81	0.54
1:B:2690:U:O2	1:B:2691:C:H5'	2.08	0.54
1:B:2819:G:C8	1:B:2820:A:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:A:O4'	1:B:106:C:OP2	2.26	0.53
1:B:220:G:C3'	1:B:277:G:O3'	2.56	0.53
1:B:446:G:O5'	1:B:470:A:H2'	2.08	0.53
1:B:451:U:C2'	1:B:460:A:OP1	2.56	0.53
1:B:483:A:C4	1:B:484:C:H5'	2.38	0.53
1:B:566:U:O2	1:B:566:U:C2'	2.54	0.53
1:B:574:A:O4'	1:B:2039:U:C5'	2.51	0.53
1:B:647:G:N7	1:B:653:U:O4'	2.41	0.53
1:B:735:A:H5'	1:B:736:C:O4'	2.07	0.53
1:B:914:G:C1'	1:B:914:G:C8	2.82	0.53
1:B:1142:A:P	1:B:1143:A:C8	3.01	0.53
1:B:1174:U:H2'	1:B:1175:A:C8	2.43	0.53
1:B:1189:A:C5'	1:B:1190:G:C4'	2.79	0.53
1:B:1283:G:C1'	1:B:1283:G:C8	2.79	0.53
1:B:1310:G:C1'	1:B:1310:G:C8	2.77	0.53
1:B:1474:U:H2'	1:B:1475:G:C5'	2.38	0.53
1:B:1510:G:C4'	1:B:1511:G:H8	2.19	0.53
1:B:1937:A:P	1:B:1938:A:C5'	2.96	0.53
1:B:1952:A:H1'	1:B:1968:G:N2	2.23	0.53
1:B:1963:U:C3'	1:B:1964:G:H5"	2.37	0.53
1:B:1992:G:C1'	1:B:1992:G:C8	2.79	0.53
1:B:2273:A:C5	1:B:2274:A:C8	2.96	0.53
1:B:2350:C:H2'	1:B:2352:A:O5'	2.07	0.53
1:B:2371:G:C1'	1:B:2371:G:C8	2.80	0.53
1:B:2541:A:C5'	1:B:2542:A:OP1	2.44	0.53
1:B:2763:G:C1'	1:B:2763:G:C8	2.81	0.53
1:B:2777:G:N2	1:B:2778:A:H1'	2.22	0.53
1:B:10:A:C1'	1:B:10:A:C8	2.79	0.53
1:B:14:A:C5'	1:B:1256:G:O6	2.56	0.53
1:B:52:A:H2'	1:B:53:A:P	2.47	0.53
1:B:125:A:H2'	1:B:125:A:N3	2.24	0.53
1:B:141:G:C8	1:B:1331:G:N3	2.76	0.53
1:B:342:A:C4'	1:B:345:A:C8	2.86	0.53
1:B:459:U:C5	1:B:464:U:H2'	2.43	0.53
1:B:499:U:C2	1:B:505:A:C4	2.97	0.53
1:B:586:A:OP2	1:B:1196:C:H5"	2.08	0.53
1:B:670:A:C4'	1:B:670:A:H5"	2.18	0.53
1:B:674:G:H21	1:B:1249:U:H5"	1.73	0.53
1:B:867:C:O2'	1:B:915:C:P	2.65	0.53
1:B:870:U:O2'	1:B:871:U:C5'	2.56	0.53
1:B:876:C:OP1	1:B:879:G:OP1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:900:A:O3’	1:B:901:C:C6	2.61	0.53
1:B:1000:A:C8	1:B:1150:C:OP2	2.60	0.53
1:B:1175:A:C1’	1:B:1175:A:C8	2.76	0.53
1:B:1210:G:C1’	1:B:1210:G:C8	2.80	0.53
1:B:1234:U:O4	1:B:1235:G:N2	2.41	0.53
1:B:1427:A:C2	1:B:1430:C:O4’	2.61	0.53
1:B:1427:A:C5	1:B:1566:A:C6	2.96	0.53
1:B:1847:A:C4’	1:B:1848:A:OP1	2.56	0.53
1:B:1852:U:H5”	1:B:1885:A:H4’	1.91	0.53
1:B:1853:A:N9	1:B:1855:U:O4’	2.42	0.53
1:B:1900:A:H8	1:B:1901:A:H62	1.55	0.53
1:B:1905:C:C3’	1:B:1928:A:P	2.97	0.53
1:B:2055:C:O3’	1:B:2056:G:OP1	2.24	0.53
1:B:2203:U:P	1:B:2204:G:H5”	2.48	0.53
1:B:2246:G:O4’	1:B:2427:C:C5	2.53	0.53
1:B:2391:G:N7	1:B:2397:G:H4’	2.22	0.53
1:B:2448:A:C4	1:B:2449:5MU:O2	2.61	0.53
1:B:2468:A:C5’	1:B:2469:A:N6	2.70	0.53
1:B:2493:U:H5”	1:B:2494:G:OP1	2.08	0.53
1:B:2556:C:H5”	1:B:2557:G:H5”	1.87	0.53
1:B:2685:G:N7	1:B:2687:U:C4’	2.71	0.53
1:B:34:U:C5’	1:B:35:G:H5’	2.38	0.53
1:B:93:G:C3’	1:B:498:G:C4’	2.83	0.53
1:B:124:G:C6	1:B:126:A:H4’	2.43	0.53
1:B:148:U:H5”	1:B:149:A:O5’	2.09	0.53
1:B:435:C:O2’	1:B:436:C:C5	2.60	0.53
1:B:457:A:C2	1:B:459:U:P	3.01	0.53
1:B:568:U:N1	1:B:833:A:C4’	2.71	0.53
1:B:576:U:C2’	1:B:2019:A:OP1	2.56	0.53
1:B:609:A:C5’	1:B:614:A:OP1	2.56	0.53
1:B:846:U:H4’	1:B:846:U:H5”	1.83	0.53
1:B:858:G:OP2	1:B:859:G:C8	2.61	0.53
1:B:1020:A:C6	1:B:1133:A:OP2	2.62	0.53
1:B:1027:A:OP1	1:B:1134:A:H1’	2.08	0.53
1:B:1211:C:H5”	1:B:1212:G:C5’	2.39	0.53
1:B:1282:U:H2’	1:B:2012:G:N1	2.23	0.53
1:B:1449:G:P	1:B:1587:G:C4’	2.94	0.53
1:B:1544:A:C1’	1:B:1544:A:C8	2.80	0.53
1:B:1571:A:N3	1:B:1572:A:P	2.82	0.53
1:B:1581:G:H4’	1:B:1628:G:OP2	2.09	0.53
1:B:1664:A:H4’	1:B:1665:A:OP1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1696:G:O2'	1:B:2702:G:O3'	2.26	0.53
1:B:1780:A:N7	1:B:1784:A:C6	2.75	0.53
1:B:1783:A:C5	1:B:1784:A:N7	2.77	0.53
1:B:1789:A:O2'	1:B:1790:C:OP2	2.26	0.53
1:B:1803:A:P	1:B:1804:C:H1'	2.48	0.53
1:B:1849:G:N7	1:B:1889:A:H2	1.99	0.53
1:B:1850:G:H5"	1:B:1851:U:OP2	2.08	0.53
1:B:1854:A:H5'	1:B:1888:G:C2'	2.38	0.53
1:B:1944:U:O4'	1:B:1944:U:H5"	2.00	0.53
1:B:2111:U:C2'	1:B:2113:U:O5'	2.55	0.53
1:B:2533:U:C4	1:B:2534:A:C8	2.96	0.53
1:B:2685:G:C2	1:B:2723:C:O5'	2.61	0.53
1:B:2753:A:H5"	1:B:2754:U:O5'	2.08	0.53
1:B:2805:C:C2'	1:B:2806:C:O4'	2.56	0.53
1:B:2869:G:H2'	1:B:2869:G:N3	2.24	0.53
1:B:15:G:N7	1:B:1255:U:O2	2.41	0.53
1:B:75:G:O3'	1:B:76:C:P	2.66	0.53
1:B:94:A:OP1	1:B:95:A:C1'	2.35	0.53
1:B:120:U:N3	1:B:121:G:N7	2.56	0.53
1:B:214:G:HO2'	1:B:219:A:P	2.31	0.53
1:B:216:A:C5	1:B:257:C:N3	2.76	0.53
1:B:227:A:C2	1:B:432:A:O2'	2.61	0.53
1:B:240:C:O3'	1:B:275:C:H4'	2.07	0.53
1:B:345:A:N3	1:B:345:A:H2'	2.24	0.53
1:B:383:C:O2'	1:B:391:A:N6	2.42	0.53
1:B:455:C:O5'	1:B:456:C:H5'	2.06	0.53
1:B:494:G:H1'	1:B:499:U:H5	1.74	0.53
1:B:577:G:N2	1:B:2018:G:C1'	2.71	0.53
1:B:670:A:H4'	1:B:671:C:H4'	1.89	0.53
1:B:676:A:C1'	1:B:676:A:C8	2.80	0.53
1:B:820:A:C2'	1:B:2628:C:O2	2.57	0.53
1:B:837:C:O5'	1:B:975:A:H5"	2.09	0.53
1:B:1346:G:C4'	1:B:1348:C:O4'	2.56	0.53
1:B:1359:A:OP1	1:B:1359:A:C2	2.61	0.53
1:B:1450:G:O2'	1:B:1468:U:O4	2.10	0.53
1:B:1906:G:O4'	1:B:1927:A:O3'	2.25	0.53
1:B:1936:A:O5'	1:B:1939:5MU:P	2.66	0.53
1:B:2110:G:N3	1:B:2119:A:N7	2.57	0.53
1:B:2323:G:H22	1:B:2334:U:H5	1.53	0.53
1:B:2332:C:H2'	1:B:2333:A:O5'	2.08	0.53
1:B:2451:A:H2'	1:B:2452:C:P	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2685:G:C2'	1:B:2722:G:H21	2.14	0.53
1:B:2690:U:C4'	1:B:2727:A:C8	2.92	0.53
1:B:2780:G:C1'	1:B:2780:G:C8	2.80	0.53
1:B:17:G:H5"	1:B:672:C:O2	2.08	0.53
1:B:135:U:OP1	1:B:168:G:H4'	2.07	0.53
1:B:213:A:OP1	1:B:244:A:N9	2.41	0.53
1:B:242:G:P	1:B:255:A:C8	3.01	0.53
1:B:294:A:C1'	1:B:326:G:H21	2.22	0.53
1:B:705:A:C1'	1:B:705:A:C8	2.78	0.53
1:B:775:G:H5"	1:B:776:G:O5'	2.08	0.53
1:B:804:A:C4'	1:B:1254:A:N6	2.72	0.53
1:B:918:A:C1'	1:B:918:A:C8	2.76	0.53
1:B:971:G:C4	1:B:972:A:N1	2.74	0.53
1:B:1299:G:C4	1:B:1300:G:OP2	2.61	0.53
1:B:1302:A:C3'	1:B:1606:C:O2	2.54	0.53
1:B:1439:A:O2'	1:B:1440:U:OP2	2.25	0.53
1:B:1754:A:OP2	1:B:1988:G:H2'	2.09	0.53
1:B:1873:G:H5"	1:B:2134:A:N7	2.23	0.53
1:B:1941:C:C4'	1:B:1972:G:H1'	2.39	0.53
1:B:2060:A:HO2'	1:B:2557:G:N2	2.06	0.53
1:B:2104:C:C5'	1:B:2105:U:H5	2.21	0.53
1:B:2132:U:C2	1:B:2137:U:H1'	2.44	0.53
1:B:2167:U:H3'	1:B:2168:G:O3'	2.08	0.53
1:B:2287:A:O2'	1:B:2288:A:C8	2.56	0.53
1:B:2344:U:C4'	1:B:2372:U:O4	2.55	0.53
1:B:2374:C:C4'	1:B:2413:G:H5"	2.38	0.53
1:B:2847:U:H2'	1:B:2847:U:O2	2.08	0.53
1:B:71:A:C2	1:B:112:U:O2	2.61	0.53
1:B:93:G:C4	1:B:498:G:C4'	2.91	0.53
1:B:97:C:O5'	1:B:98:G:OP2	2.26	0.53
1:B:100:U:O5'	1:B:101:A:C4	2.61	0.53
1:B:165:A:N7	1:B:166:U:C5	2.75	0.53
1:B:218:A:C2'	1:B:219:A:OP2	2.57	0.53
1:B:222:A:O4'	1:B:430:A:N6	2.41	0.53
1:B:227:A:C4	1:B:355:U:OP1	2.62	0.53
1:B:451:U:C2	1:B:460:A:C5'	2.91	0.53
1:B:455:C:P	1:B:456:C:H4'	2.49	0.53
1:B:745:7MG:H3'	1:B:748:G:C2'	2.38	0.53
1:B:802:A:H3'	1:B:1254:A:P	2.49	0.53
1:B:850:U:H3'	1:B:851:C:C6	2.43	0.53
1:B:912:C:H1'	1:B:913:U:C4'	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:G:H1'	1:B:917:A:P	2.43	0.53
1:B:956:G:C1'	1:B:956:G:C8	2.80	0.53
1:B:1041:G:P	1:B:1050:A:C1'	2.96	0.53
1:B:1135:C:H1'	1:B:1140:C:C6	2.43	0.53
1:B:1272:A:C2'	1:B:1273:U:H5"	2.39	0.53
1:B:1346:G:O4'	1:B:1348:C:C2	2.61	0.53
1:B:1584:U:O2	1:B:1586:A:H5'	2.08	0.53
1:B:1672:A:C3'	1:B:1673:G:O2'	2.57	0.53
1:B:1854:A:H62	1:B:1858:A:H3'	1.74	0.53
1:B:1876:A:O3'	1:B:1876:A:OP2	2.27	0.53
1:B:1884:G:C1'	1:B:1885:A:H3'	2.38	0.53
1:B:1933:G:H5"	1:B:1941:C:C4'	2.31	0.53
1:B:1933:G:C5'	1:B:1941:C:C5'	2.86	0.53
1:B:1933:G:C8	1:B:1938:A:O2'	2.60	0.53
1:B:1934:C:O2'	1:B:1935:G:P	2.67	0.53
1:B:1935:G:C5'	1:B:1941:C:C2	2.84	0.53
1:B:1944:U:P	1:B:2072:C:OP1	2.66	0.53
1:B:1971:U:C2	1:B:2554:U:C6	2.97	0.53
1:B:1995:U:O3'	1:B:1997:C:OP2	2.27	0.53
1:B:2050:C:C5'	1:B:2051:A:P	2.97	0.53
1:B:2051:A:C1'	1:B:2051:A:C8	2.79	0.53
1:B:2060:A:C8	1:B:2559:C:C1'	2.92	0.53
1:B:2298:A:C1'	1:B:2298:A:C8	2.78	0.53
1:B:2326:C:H5"	1:B:2327:A:N7	2.24	0.53
1:B:2344:U:O3'	1:B:2373:G:O6	2.27	0.53
1:B:2375:G:P	1:B:2413:G:C4'	2.94	0.53
1:B:2378:A:OP2	1:B:2394:C:O4'	2.27	0.53
1:B:2405:G:C5'	1:B:2405:G:O4'	2.50	0.53
1:B:2654:A:H62	1:B:2666:C:H41	0.65	0.53
1:B:22:C:O5'	1:B:511:U:O3'	2.26	0.53
1:B:83:A:P	1:B:84:A:C2	3.02	0.53
1:B:92:U:H1'	1:B:498:G:C2	2.39	0.53
1:B:445:C:O2'	1:B:446:G:OP1	2.27	0.53
1:B:490:C:OP2	1:B:491:G:N7	2.42	0.53
1:B:517:C:OP1	1:B:1248:G:O2'	2.25	0.53
1:B:530:G:C1'	1:B:530:G:C8	2.81	0.53
1:B:600:G:O3'	1:B:602:A:C5'	2.57	0.53
1:B:636:G:C1'	1:B:636:G:C8	2.81	0.53
1:B:749:A:H1'	1:B:2614:A:C6	2.43	0.53
1:B:782:A:O3'	1:B:783:A:O4'	2.27	0.53
1:B:845:A:C2'	1:B:931:U:N3	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1040:A:C5'	1:B:1050:A:N3	2.71	0.53
1:B:1047:G:HO2'	1:B:1102:C:P	2.31	0.53
1:B:1128:G:C3'	1:B:2751:G:C3'	2.86	0.53
1:B:1135:C:C5'	1:B:1141:U:OP2	2.56	0.53
1:B:1203:U:C2	1:B:1241:A:C5'	2.92	0.53
1:B:1292:G:H4'	1:B:1309:G:H2'	1.91	0.53
1:B:1299:G:N2	1:B:1300:G:H8	1.94	0.53
1:B:1428:C:O2	1:B:1630:A:H1'	2.09	0.53
1:B:1465:G:O4'	1:B:1466:U:C4'	2.57	0.53
1:B:1469:A:C1'	1:B:1469:A:C8	2.79	0.53
1:B:1523:U:C2'	1:B:1524:G:C5'	2.87	0.53
1:B:1568:G:OP1	1:B:1572:A:C8	2.62	0.53
1:B:1569:A:C6	1:B:1571:A:H3'	2.44	0.53
1:B:1609:A:C8	1:B:1622:G:H5'	2.44	0.53
1:B:1626:A:O2'	1:B:1627:G:O4'	2.20	0.53
1:B:1674:G:C2'	1:B:1679:A:C2'	2.71	0.53
1:B:1792:G:H5'	1:B:1942:C:O3'	2.08	0.53
1:B:1810:A:C1'	1:B:1810:A:C8	2.77	0.53
1:B:1825:U:H5'	1:B:1967:C:N4	2.21	0.53
1:B:1852:U:OP1	1:B:1856:U:N3	2.42	0.53
1:B:1855:U:H2'	1:B:1884:G:H3'	1.86	0.53
1:B:1884:G:O3'	1:B:1886:U:OP1	2.26	0.53
1:B:1906:G:OP1	1:B:1937:A:OP2	2.27	0.53
1:B:1925:C:O2	1:B:1925:C:O5'	2.27	0.53
1:B:1947:C:H5"	1:B:1965:C:OP2	2.09	0.53
1:B:2050:C:O3'	1:B:2052:A:P	2.67	0.53
1:B:2199:A:C1'	1:B:2199:A:C8	2.76	0.53
1:B:2375:G:C1'	1:B:2375:G:C8	2.80	0.53
1:B:2489:U:H5"	1:B:2502:G:OP1	2.09	0.53
1:B:2492:U:C2'	1:B:2493:U:H5"	2.37	0.53
1:B:2562:U:H2'	1:B:2563:U:OP2	2.09	0.53
1:B:2652:C:C4	1:B:2653:U:C5	2.96	0.53
1:B:2655:G:C2	1:B:2656:U:C4	2.96	0.53
1:B:2719:G:C1'	1:B:2719:G:C8	2.82	0.53
1:B:2733:A:C4'	1:B:2770:G:H21	2.19	0.53
1:B:2845:U:H1'	1:B:2867:G:H8	1.74	0.53
1:B:2867:G:O2'	1:B:2868:A:N3	2.42	0.53
1:B:15:G:O2'	1:B:1256:G:H4'	2.08	0.53
1:B:52:A:N3	1:B:53:A:OP1	2.41	0.53
1:B:66:C:H2'	1:B:85:G:OP2	2.09	0.53
1:B:72:U:C2	1:B:114:U:C4'	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:C:C2	1:B:433:C:OP2	2.60	0.53
1:B:233:A:C1'	1:B:233:A:C8	2.78	0.53
1:B:570:G:C8	1:B:572:A:H1'	2.44	0.53
1:B:1121:C:H2'	1:B:1123:C:OP2	2.09	0.53
1:B:1223:G:H2'	1:B:1224:U:C5'	2.39	0.53
1:B:1225:G:C1'	1:B:1225:G:C8	2.81	0.53
1:B:1466:U:O3'	1:B:1466:U:C2'	2.50	0.53
1:B:1468:U:O2	1:B:1527:G:C4'	2.57	0.53
1:B:1527:G:O2'	1:B:1528:A:O5'	2.27	0.53
1:B:1553:A:H2'	1:B:1554:U:C5'	2.37	0.53
1:B:1580:A:C1'	1:B:1632:A:C5'	2.62	0.53
1:B:1582:C:C2	1:B:1633:G:H3'	2.44	0.53
1:B:1737:G:O6	1:B:1739:A:H5"	2.09	0.53
1:B:1783:A:H2'	1:B:1784:A:O4'	2.09	0.53
1:B:1828:G:H1	1:B:2443:C:C1'	2.22	0.53
1:B:1935:G:N2	1:B:1939:5MU:H4'	2.18	0.53
1:B:1936:A:C1'	1:B:1936:A:C8	2.80	0.53
1:B:1963:U:H2'	1:B:1964:G:H5"	1.91	0.53
1:B:2085:U:H2'	1:B:2086:U:C3'	2.39	0.53
1:B:2335:A:N9	1:B:2336:A:O4'	2.41	0.53
1:B:2453:A:H2'	1:B:2454:G:OP2	2.08	0.53
1:B:2682:A:C6	1:B:2720:U:C5	2.97	0.53
1:B:2791:G:H1'	1:B:2809:A:OP1	2.08	0.53
1:B:2849:U:O2'	1:B:2850:A:OP2	2.25	0.53
1:B:2884:U:C5'	1:B:2890:G:H21	2.16	0.53
1:B:9:G:C3'	1:B:526:A:H5'	2.39	0.53
1:B:28:A:H3'	1:B:1251:C:O2'	2.09	0.53
1:B:52:A:H1'	1:B:117:G:C2	2.44	0.53
1:B:93:G:H5'	1:B:504:A:P	2.49	0.53
1:B:97:C:H5"	1:B:98:G:OP2	2.08	0.53
1:B:182:A:OP2	1:B:205:G:O6	2.27	0.53
1:B:215:G:P	1:B:219:A:C5'	2.97	0.53
1:B:238:C:O3'	1:B:274:C:H3'	2.09	0.53
1:B:267:C:C1'	1:B:269:C:H6	2.11	0.53
1:B:448:U:O4'	1:B:474:G:OP1	2.27	0.53
1:B:475:C:OP2	1:B:477:A:N6	2.40	0.53
1:B:502:A:N7	1:B:503:A:H8	2.06	0.53
1:B:536:G:H2'	1:B:537:G:O5'	2.08	0.53
1:B:618:G:C5	1:B:619:G:H3'	2.44	0.53
1:B:686:U:H5"	1:B:687:C:H6	1.60	0.53
1:B:982:C:H41	1:B:983:A:N6	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1203:U:H1'	1:B:1240:U:C4	2.43	0.53
1:B:1289:C:N1	1:B:1648:U:C4'	2.60	0.53
1:B:1417:C:C3'	1:B:1635:A:N1	2.72	0.53
1:B:1523:U:OP2	1:B:1527:G:N2	2.41	0.53
1:B:1728:C:C2'	1:B:1729:U:C5	2.87	0.53
1:B:1828:G:N2	1:B:2443:C:HO2'	2.06	0.53
1:B:1853:A:C3'	1:B:1888:G:H5'	2.37	0.53
1:B:1882:U:C5	1:B:1884:G:OP1	2.62	0.53
1:B:1942:C:C5'	1:B:2441:U:O3'	2.57	0.53
1:B:1967:C:OP2	1:B:1968:G:O5'	2.26	0.53
1:B:1972:G:OP2	1:B:2442:C:OP2	2.27	0.53
1:B:2018:G:C1'	1:B:2018:G:C8	2.82	0.53
1:B:2059:A:N7	1:B:2557:G:H4'	2.24	0.53
1:B:2682:A:N3	1:B:2720:U:C2'	2.66	0.53
1:B:2748:A:C1'	1:B:2748:A:C8	2.76	0.53
1:B:2820:A:H4'	1:B:2821:A:P	2.49	0.53
1:B:2887:A:C2	1:B:2888:C:H3'	2.37	0.53
1:B:52:A:H61	1:B:73:A:H5'	1.74	0.53
1:B:77:G:OP1	1:B:120:U:C5'	2.57	0.53
1:B:83:A:C2	1:B:88:G:N2	2.77	0.53
1:B:111:A:OP2	1:B:111:A:O4'	2.26	0.53
1:B:113:U:C1'	1:B:113:U:C6	2.87	0.53
1:B:274:C:H5"	1:B:275:C:OP2	2.08	0.53
1:B:368:A:C1'	1:B:368:A:C8	2.81	0.53
1:B:514:A:C1'	1:B:514:A:C8	2.78	0.53
1:B:565:C:H5"	1:B:836:G:C5	2.43	0.53
1:B:1000:A:N7	1:B:1150:C:OP2	2.41	0.53
1:B:1018:U:C4'	1:B:1129:A:OP1	2.57	0.53
1:B:1023:U:H5	1:B:2481:G:O2'	1.91	0.53
1:B:1189:A:H3'	1:B:1190:G:OP2	2.08	0.53
1:B:1347:A:H4'	1:B:1348:C:O5'	2.09	0.53
1:B:1360:G:C1'	1:B:1360:G:C8	2.81	0.53
1:B:1427:A:H1'	1:B:1430:C:H4'	1.90	0.53
1:B:1451:C:H3'	1:B:1526:C:C4'	2.38	0.53
1:B:1546:G:C1'	1:B:1546:G:C4	2.80	0.53
1:B:1568:G:O2'	1:B:1570:A:N6	2.37	0.53
1:B:1610:A:O2'	1:B:1610:A:C4	2.55	0.53
1:B:1678:A:OP1	1:B:1683:U:P	2.67	0.53
1:B:1681:G:C1'	1:B:1681:G:C4	2.81	0.53
1:B:1736:U:OP2	1:B:1739:A:O5'	2.26	0.53
1:B:1791:A:OP1	1:B:2442:C:O3'	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1847:A:N7	1:B:2232:C:H4'	2.25	0.53
1:B:1848:A:N7	1:B:1852:U:O2'	2.41	0.53
1:B:1888:G:OP2	1:B:1889:A:H3'	2.09	0.53
1:B:1940:U:O4	1:B:2553:G:C4'	2.53	0.53
1:B:2170:A:H2'	1:B:2171:A:H3'	1.91	0.53
1:B:2645:G:H5'	1:B:2646:C:C6	2.28	0.53
1:B:2682:A:C2'	1:B:2720:U:C2'	2.82	0.53
1:B:2719:G:OP1	1:B:2720:U:O4'	2.27	0.53
1:B:1:G:OP1	1:B:2904:U:N3	2.42	0.52
1:B:16:C:OP1	1:B:1198:U:O4'	2.27	0.52
1:B:239:C:C4	1:B:276:U:C5'	2.92	0.52
1:B:332:A:H3'	1:B:333:G:H8	1.75	0.52
1:B:421:C:OP2	1:B:422:A:H3'	2.09	0.52
1:B:453:A:H2'	1:B:453:A:N3	2.23	0.52
1:B:480:A:H2'	1:B:481:G:O5'	2.08	0.52
1:B:501:A:P	1:B:502:A:C8	3.02	0.52
1:B:530:G:H2'	1:B:530:G:N3	2.24	0.52
1:B:698:C:OP2	1:B:1964:G:OP2	2.26	0.52
1:B:802:A:C2'	1:B:1253:A:H5'	2.39	0.52
1:B:1021:A:N6	1:B:2481:G:H22	2.05	0.52
1:B:1074:G:O2'	1:B:1075:C:O5'	2.26	0.52
1:B:1154:G:H5"	1:B:1156:A:H5'	1.90	0.52
1:B:1447:C:H41	1:B:1543:G:H22	1.54	0.52
1:B:1453:A:C3'	1:B:1527:G:OP1	2.57	0.52
1:B:1696:G:H5"	1:B:1697:G:N9	2.21	0.52
1:B:1815:A:N6	1:B:1816:C:C5	2.77	0.52
1:B:1905:C:P	1:B:1928:A:P	3.07	0.52
1:B:1989:G:C1'	1:B:1989:G:C8	2.81	0.52
1:B:2060:A:C2'	1:B:2558:C:H1'	2.39	0.52
1:B:2133:G:H21	1:B:2156:G:H22	1.49	0.52
1:B:2602:A:N1	1:B:2603:G:O6	2.41	0.52
1:B:2645:G:O6	1:B:2772:C:O2	2.27	0.52
1:B:2719:G:O2'	1:B:2720:U:O5'	2.26	0.52
1:B:2846:G:H5'	1:B:2847:U:O5'	2.08	0.52
1:B:2879:A:O4'	1:B:2880:C:C5	2.62	0.52
1:B:2885:G:C1'	1:B:2885:G:C8	2.79	0.52
1:B:52:A:C5'	1:B:52:A:HO5'	2.11	0.52
1:B:83:A:H5'	1:B:84:A:OP2	2.09	0.52
1:B:101:A:C2'	1:B:103:A:H3'	2.22	0.52
1:B:117:G:C1'	1:B:117:G:C8	2.79	0.52
1:B:119:A:H2'	1:B:119:A:N3	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:124:G:C1’	1:B:124:G:C8	2.80	0.52
1:B:137:U:O2’	1:B:1325:U:C4’	2.57	0.52
1:B:138:U:H3’	1:B:139:U:C5’	2.36	0.52
1:B:465:G:C4’	1:B:479:A:C2	2.92	0.52
1:B:646:U:H3’	1:B:647:G:H5”	1.75	0.52
1:B:674:G:C5’	1:B:1250:G:OP1	2.53	0.52
1:B:699:A:C1’	1:B:699:A:C8	2.81	0.52
1:B:739:A:C1’	1:B:739:A:C8	2.79	0.52
1:B:762:U:C5’	1:B:1950:G:H5”	2.20	0.52
1:B:974:G:C1’	1:B:974:G:C8	2.80	0.52
1:B:1288:G:O3’	1:B:1649:G:H5’	2.10	0.52
1:B:1302:A:H2’	1:B:1607:C:OP1	2.09	0.52
1:B:1311:G:C1’	1:B:1311:G:C8	2.80	0.52
1:B:1321:A:H4’	1:B:1322:A:O3’	2.10	0.52
1:B:1474:U:H2’	1:B:1475:G:H5”	1.91	0.52
1:B:1522:A:H3’	1:B:1528:A:C1’	2.29	0.52
1:B:1545:A:H2’	1:B:1546:G:OP2	2.02	0.52
1:B:1654:A:C1’	1:B:1654:A:C8	2.78	0.52
1:B:1852:U:N1	1:B:1885:A:H8	2.03	0.52
1:B:1870:C:H2’	1:B:1871:A:C8	2.45	0.52
1:B:1929:G:C1’	1:B:1929:G:C8	2.81	0.52
1:B:1931:U:O5’	1:B:1932:A:P	2.67	0.52
1:B:2058:A:N1	1:B:2069:7MG:HM72	2.18	0.52
1:B:2061:G:H21	1:B:2553:G:C4’	2.22	0.52
1:B:2268:A:H2’	1:B:2268:A:N3	2.25	0.52
1:B:2308:G:C1’	1:B:2308:G:C8	2.81	0.52
1:B:2472:G:C1’	1:B:2472:G:C8	2.82	0.52
1:B:2504:U:C6	1:B:2579:C:OP2	2.63	0.52
1:B:2645:G:C1’	1:B:2645:G:C8	2.82	0.52
1:B:2685:G:C2	1:B:2723:C:C5’	2.92	0.52
1:B:59:U:HO2’	1:B:60:G:P	2.33	0.52
1:B:83:A:H5”	1:B:84:A:O4’	2.09	0.52
1:B:216:A:OP2	1:B:218:A:N3	2.43	0.52
1:B:221:A:O2’	1:B:222:A:O5’	2.27	0.52
1:B:310:A:C3’	1:B:483:A:H62	2.14	0.52
1:B:343:C:H5”	1:B:344:A:O5’	2.08	0.52
1:B:389:G:H2’	1:B:390:U:O4’	2.09	0.52
1:B:507:A:N3	1:B:518:G:H5’	2.13	0.52
1:B:537:G:H3’	1:B:537:G:N3	2.23	0.52
1:B:574:A:C1’	1:B:2039:U:C4’	2.65	0.52
1:B:735:A:O2’	1:B:736:C:C5	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:758:C:O2'	1:B:1950:G:O5'	2.27	0.52
1:B:783:A:C2	1:B:784:G:O4'	2.62	0.52
1:B:803:U:C6	1:B:1255:U:C5'	2.92	0.52
1:B:989:G:N7	1:B:1153:C:O3'	2.42	0.52
1:B:1046:A:N3	1:B:1046:A:H2'	2.25	0.52
1:B:1266:G:N2	1:B:1270:C:H1'	2.24	0.52
1:B:1427:A:N6	1:B:1574:C:C2	2.78	0.52
1:B:1468:U:O2'	1:B:1523:U:OP2	2.25	0.52
1:B:1523:U:O2	1:B:1524:G:OP2	2.27	0.52
1:B:1751:U:H5'	1:B:1752:C:H4'	1.92	0.52
1:B:1847:A:H2	1:B:1889:A:O5'	1.90	0.52
1:B:1848:A:C6	1:B:2090:A:H1'	2.45	0.52
1:B:1855:U:O4	1:B:1857:G:H5"	2.09	0.52
1:B:1935:G:N2	1:B:1940:U:C5'	2.51	0.52
1:B:1954:G:H4'	1:B:1955:U:C5	2.43	0.52
1:B:2060:A:C3'	1:B:2447:G:P	2.91	0.52
1:B:2111:U:C2'	1:B:2112:G:O3'	2.57	0.52
1:B:2113:U:OP2	1:B:2178:C:N4	2.29	0.52
1:B:2499:C:O2	1:B:2499:C:C2'	2.57	0.52
1:B:2572:A:C5'	1:B:2646:C:C1'	2.85	0.52
1:B:2754:U:C3'	1:B:2755:C:H5"	2.40	0.52
1:B:2882:A:C2'	1:B:2883:A:N1	2.71	0.52
1:B:13:A:O2'	1:B:584:C:N4	2.42	0.52
1:B:25:U:O2'	1:B:26:G:P	2.67	0.52
1:B:27:G:N2	1:B:673:C:C5	2.76	0.52
1:B:71:A:C4'	1:B:71:A:H5'	2.20	0.52
1:B:210:C:O2'	1:B:217:A:N1	2.28	0.52
1:B:215:G:O4'	1:B:257:C:H6	1.93	0.52
1:B:229:C:C2	1:B:433:C:P	3.02	0.52
1:B:318:C:HO3'	1:B:319:G:P	2.26	0.52
1:B:319:G:H1'	1:B:320:A:C5'	2.40	0.52
1:B:362:A:H5'	1:B:428:A:C3'	2.40	0.52
1:B:434:U:HO2'	1:B:435:C:P	2.32	0.52
1:B:459:U:N3	1:B:465:G:OP1	2.42	0.52
1:B:545:U:H2'	1:B:546:U:C5	2.37	0.52
1:B:685:A:O3'	1:B:685:A:C2'	2.52	0.52
1:B:943:A:C1'	1:B:943:A:C8	2.77	0.52
1:B:982:C:N4	1:B:983:A:C6	2.78	0.52
1:B:1022:G:H22	1:B:2483:C:H42	1.58	0.52
1:B:1048:A:O5'	1:B:1049:C:O2	2.26	0.52
1:B:1134:A:OP1	1:B:1143:A:N3	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1250:G:C1'	1:B:1250:G:C8	2.80	0.52
1:B:1283:G:O3'	1:B:2012:G:C3'	2.57	0.52
1:B:1321:A:P	1:B:1323:C:C5'	2.98	0.52
1:B:1329:U:C5'	1:B:1330:C:O4'	2.57	0.52
1:B:1377:G:OP2	1:B:1379:U:H5"	2.09	0.52
1:B:1418:G:O6	1:B:1581:G:C5	2.62	0.52
1:B:1418:G:O6	1:B:1581:G:N7	2.43	0.52
1:B:1523:U:OP1	1:B:1528:A:C5	2.63	0.52
1:B:1533:C:H2'	1:B:1534:U:C5	2.45	0.52
1:B:1672:A:H1'	1:B:1673:G:O3'	1.95	0.52
1:B:1678:A:OP2	1:B:1678:A:H4'	2.09	0.52
1:B:1803:A:N6	1:B:1897:G:H5"	2.23	0.52
1:B:1869:G:C1'	1:B:1869:G:C8	2.82	0.52
1:B:1933:G:N7	1:B:1936:A:N7	2.52	0.52
1:B:1942:C:OP1	1:B:2441:U:H5"	2.10	0.52
1:B:2108:A:H5'	1:B:2110:G:C2'	2.38	0.52
1:B:2199:A:O2'	1:B:2200:C:C5'	2.57	0.52
1:B:2199:A:H3'	1:B:2200:C:H5'	1.83	0.52
1:B:2287:A:C2	1:B:2378:A:H3'	2.44	0.52
1:B:2462:C:OP2	1:B:2482:A:N1	2.41	0.52
1:B:2493:U:C5'	1:B:2494:G:P	2.97	0.52
1:B:2790:U:O3'	1:B:2891:U:C5'	2.54	0.52
1:B:2799:A:P	1:B:2800:A:N7	2.83	0.52
1:B:2858:C:N3	1:B:2859:G:O6	2.42	0.52
1:B:28:A:H2	1:B:674:G:C3'	2.22	0.52
1:B:28:A:O2'	1:B:1250:G:C5'	2.57	0.52
1:B:78:U:C6	1:B:99:U:C5'	2.90	0.52
1:B:124:G:O6	1:B:126:A:H4'	2.10	0.52
1:B:140:C:O2'	1:B:141:G:H1'	2.08	0.52
1:B:234:U:H2'	1:B:235:U:C6	2.44	0.52
1:B:244:A:C2	1:B:248:G:C5'	2.92	0.52
1:B:269:C:O2	1:B:270:A:P	2.66	0.52
1:B:507:A:C6	1:B:518:G:H5"	2.44	0.52
1:B:673:C:N3	1:B:1251:C:H1'	2.25	0.52
1:B:675:A:H3'	1:B:676:A:N3	2.23	0.52
1:B:735:A:O4'	1:B:736:C:C6	2.62	0.52
1:B:916:G:H5'	1:B:917:A:H5"	1.88	0.52
1:B:1196:C:H2'	1:B:1197:G:OP1	2.09	0.52
1:B:1417:C:C2	1:B:1466:U:H3'	2.40	0.52
1:B:1454:C:C5	1:B:1525:A:OP2	2.63	0.52
1:B:1551:A:N7	1:B:1552:A:O2'	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1580:A:N3	1:B:1632:A:C4'	2.73	0.52
1:B:1675:C:H1'	1:B:1677:A:C4	2.38	0.52
1:B:1679:A:C6	1:B:1690:A:C8	2.98	0.52
1:B:1815:A:C1'	1:B:1815:A:C8	2.79	0.52
1:B:1856:U:O5'	1:B:1886:U:H5'	2.10	0.52
1:B:1971:U:H2'	1:B:1972:G:H5"	1.91	0.52
1:B:2014:A:H8	1:B:2014:A:OP2	1.92	0.52
1:B:2022:U:O2	1:B:2022:U:C2'	2.56	0.52
1:B:2108:A:OP1	1:B:2110:G:H8	1.92	0.52
1:B:2224:G:C1'	1:B:2224:G:C8	2.79	0.52
1:B:2454:G:O3'	1:B:2454:G:C2'	2.52	0.52
1:B:2834:G:H5"	1:B:2887:A:H3'	1.92	0.52
1:B:2867:G:N9	1:B:2868:A:H2	2.06	0.52
1:B:2894:G:C1'	1:B:2894:G:C8	2.82	0.52
1:B:50:U:O2'	1:B:151:C:C3'	2.57	0.52
1:B:63:A:O3'	1:B:64:A:C4	2.62	0.52
1:B:457:A:C4	1:B:458:G:H2'	2.45	0.52
1:B:465:G:C1'	1:B:465:G:C8	2.83	0.52
1:B:488:G:C1'	1:B:510:C:H41	2.23	0.52
1:B:570:G:O6	1:B:2044:C:C4	2.63	0.52
1:B:777:G:H21	1:B:788:A:C3'	2.19	0.52
1:B:788:A:N1	1:B:790:U:C6	2.78	0.52
1:B:845:A:OP1	1:B:846:U:C6	2.63	0.52
1:B:1022:G:N2	1:B:2483:C:H42	2.07	0.52
1:B:1203:U:H3	1:B:1241:A:C5'	2.22	0.52
1:B:1283:G:O3'	1:B:2013:A:P	2.67	0.52
1:B:1299:G:N9	1:B:1626:A:N6	2.57	0.52
1:B:1416:G:H5"	1:B:1637:A:H5"	1.92	0.52
1:B:1689:A:C2	1:B:1695:G:OP2	2.62	0.52
1:B:1791:A:N7	1:B:1942:C:C5'	2.66	0.52
1:B:1852:U:H3'	1:B:1853:A:P	2.50	0.52
1:B:1852:U:C5	1:B:1883:U:H1'	2.44	0.52
1:B:1940:U:N3	1:B:2062:A:H8	2.02	0.52
1:B:1944:U:O3'	1:B:1945:G:H5"	2.05	0.52
1:B:2042:A:C3'	1:B:2043:C:H5'	2.28	0.52
1:B:2060:A:C2'	1:B:2558:C:O2	2.57	0.52
1:B:2656:U:C4	1:B:2664:G:C2	2.98	0.52
1:B:2685:G:N3	1:B:2722:G:C2'	2.73	0.52
1:B:2755:C:C2'	1:B:2756:U:O4'	2.58	0.52
1:B:2845:U:H5'	1:B:2868:A:C1'	2.36	0.52
1:B:14:A:H4'	1:B:1256:G:O6	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:15:G:C4’	1:B:1197:G:H2’	2.39	0.52
1:B:28:A:O2’	1:B:1250:G:H3’	2.10	0.52
1:B:34:U:H5’	1:B:35:G:H5’	1.91	0.52
1:B:45:G:P	1:B:46:G:H8	2.32	0.52
1:B:77:G:P	1:B:120:U:C5’	2.98	0.52
1:B:113:U:OP1	1:B:119:A:H1’	2.08	0.52
1:B:224:U:O3’	1:B:281:C:H5	1.93	0.52
1:B:483:A:C5’	1:B:483:A:H4’	2.17	0.52
1:B:530:G:H5’	1:B:949:G:C5’	2.39	0.52
1:B:782:A:H5”	1:B:783:A:C4	2.45	0.52
1:B:845:A:C1’	1:B:846:U:O4’	2.57	0.52
1:B:981:A:H2’	1:B:982:C:O5’	2.10	0.52
1:B:1040:A:H5”	1:B:1050:A:C2’	2.40	0.52
1:B:1121:C:C2’	1:B:1123:C:OP2	2.57	0.52
1:B:1121:C:H5”	1:B:1122:G:OP2	2.09	0.52
1:B:1537:G:C1’	1:B:1537:G:C8	2.81	0.52
1:B:1569:A:O4’	1:B:1569:A:OP2	2.27	0.52
1:B:1677:A:C1’	1:B:1677:A:C8	2.77	0.52
1:B:1789:A:H2’	1:B:1790:C:OP2	2.09	0.52
1:B:1857:G:C1’	1:B:1857:G:C4	2.82	0.52
1:B:1874:C:OP2	1:B:1875:G:O4’	2.28	0.52
1:B:1905:C:OP1	1:B:1928:A:P	2.66	0.52
1:B:1928:A:O4’	1:B:1936:A:H3’	2.10	0.52
1:B:2013:A:C5’	1:B:2014:A:C5	2.91	0.52
1:B:2104:C:P	1:B:2104:C:O3’	2.68	0.52
1:B:2155:U:O2’	1:B:2156:G:P	2.68	0.52
1:B:2281:A:C5’	1:B:2282:G:C5’	2.87	0.52
1:B:2281:A:C4’	1:B:2282:G:O5’	2.58	0.52
1:B:2335:A:H2’	1:B:2336:A:O4’	2.09	0.52
1:B:2382:G:C3’	1:B:2383:G:C8	2.88	0.52
1:B:2389:G:C1’	1:B:2389:G:C8	2.81	0.52
1:B:2410:G:C3’	1:B:2411:A:O4’	2.57	0.52
1:B:2505:G:C1’	1:B:2505:G:C4	2.83	0.52
1:B:2645:G:H3’	1:B:2645:G:N3	2.24	0.52
1:B:2:G:OP2	1:B:2904:U:O4	2.28	0.52
1:B:10:A:H8	1:B:812:C:C2	2.28	0.52
1:B:28:A:N3	1:B:1250:G:OP1	2.43	0.52
1:B:76:C:C4	1:B:119:A:H2’	2.45	0.52
1:B:101:A:C2	1:B:105:C:OP2	2.63	0.52
1:B:229:C:N3	1:B:230:G:C5	2.78	0.52
1:B:275:C:C5	1:B:275:C:OP1	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:G:C1’	1:B:388:G:C8	2.80	0.52
1:B:455:C:O5’	1:B:656:G:OP1	2.28	0.52
1:B:459:U:C4	1:B:464:U:O3’	2.63	0.52
1:B:1051:G:H2’	1:B:1052:C:H6	1.73	0.52
1:B:1130:U:C3’	1:B:2749:A:H8	2.23	0.52
1:B:1266:G:OP1	1:B:1266:G:C8	2.61	0.52
1:B:1281:G:H5”	1:B:1282:U:OP2	2.10	0.52
1:B:1333:G:OP1	1:B:1639:C:OP1	2.27	0.52
1:B:1363:C:N4	1:B:1365:A:O4’	2.40	0.52
1:B:1418:G:C1’	1:B:1418:G:C8	2.79	0.52
1:B:1453:A:H5”	1:B:1527:G:OP1	2.09	0.52
1:B:1477:A:OP1	1:B:1516:G:C8	2.63	0.52
1:B:1585:C:C5’	1:B:1586:A:O5’	2.58	0.52
1:B:1655:A:C1’	1:B:1655:A:C8	2.78	0.52
1:B:1664:A:C5’	1:B:1758:U:OP1	2.57	0.52
1:B:1691:C:C2	1:B:1692:U:N3	2.77	0.52
1:B:1803:A:O3’	1:B:1803:A:C2’	2.53	0.52
1:B:1853:A:C5’	1:B:1858:A:O5’	2.58	0.52
1:B:1855:U:C2’	1:B:1884:G:H3’	2.40	0.52
1:B:2022:U:C5’	1:B:2023:C:C6	2.92	0.52
1:B:2055:C:OP1	1:B:2056:G:H5’	2.09	0.52
1:B:2410:G:O2’	1:B:2411:A:OP1	2.26	0.52
1:B:2685:G:H4’	1:B:2685:G:H5”	1.89	0.52
1:B:2685:G:O6	1:B:2687:U:O3’	2.28	0.52
1:B:2685:G:OP2	1:B:2722:G:O2’	2.28	0.52
1:B:2734:A:C1’	1:B:2734:A:C8	2.77	0.52
1:B:2774:C:C2	1:B:2775:G:H1’	2.45	0.52
1:B:2820:A:C2’	1:B:2821:A:C4’	2.86	0.52
1:B:2821:A:H2’	1:B:2821:A:N3	2.25	0.52
1:B:2857:G:C1’	1:B:2857:G:C8	2.81	0.52
1:B:11:C:C6	1:B:1195:G:N7	2.78	0.52
1:B:124:G:O6	1:B:126:A:C3’	2.58	0.52
1:B:177:G:C1’	1:B:177:G:C8	2.82	0.52
1:B:206:U:C6	1:B:207:A:H5”	2.45	0.52
1:B:220:G:C2	1:B:277:G:N2	2.77	0.52
1:B:262:A:H3’	1:B:430:A:C5’	2.35	0.52
1:B:411:G:C2	1:B:412:A:H8	2.28	0.52
1:B:412:A:C5	1:B:413:C:N4	2.78	0.52
1:B:449:A:C4’	1:B:449:A:H5”	2.17	0.52
1:B:601:C:O2’	1:B:646:U:O2	2.20	0.52
1:B:608:A:O4’	1:B:610:C:N4	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:803:U:O5'	1:B:1254:A:O5'	2.28	0.52
1:B:837:C:O2	1:B:976:G:N7	2.43	0.52
1:B:916:G:C2'	1:B:917:A:H5'	2.39	0.52
1:B:1116:G:H2'	1:B:1117:C:N1	2.24	0.52
1:B:1128:G:O3'	1:B:2752:C:OP1	2.27	0.52
1:B:1130:U:C2'	1:B:2752:C:O3'	2.58	0.52
1:B:1211:C:H5"	1:B:1212:G:H5'	1.92	0.52
1:B:1450:G:H21	1:B:1452:G:C5'	2.22	0.52
1:B:1469:A:OP2	1:B:1523:U:C5'	2.57	0.52
1:B:1572:A:H62	1:B:1573:G:H4'	1.62	0.52
1:B:1584:U:H3	1:B:1586:A:H4'	1.74	0.52
1:B:1608:A:H2'	1:B:1608:A:N3	2.25	0.52
1:B:1653:G:H2'	1:B:1654:A:H3'	1.89	0.52
1:B:1848:A:N3	1:B:1857:G:C8	2.78	0.52
1:B:1952:A:O3'	1:B:1956:U:O4	2.27	0.52
1:B:1981:A:H2'	1:B:1982:U:C5	2.41	0.52
1:B:2014:A:C8	1:B:2014:A:OP2	2.63	0.52
1:B:2111:U:N1	1:B:2112:G:C3'	2.73	0.52
1:B:2113:U:H5"	1:B:2120:G:O6	2.08	0.52
1:B:2226:C:H2'	1:B:2227:A:H5'	1.73	0.52
1:B:2319:G:C8	1:B:2322:A:N6	2.78	0.52
1:B:2404:U:OP2	1:B:2405:G:C2'	2.58	0.52
1:B:2521:C:H2'	1:B:2522:U:C6	2.45	0.52
1:B:2551:C:H5"	1:B:2552:U:P	2.50	0.52
1:B:2787:C:H5'	1:B:2813:A:H4'	1.92	0.52
1:B:2884:U:C6	1:B:2887:A:N7	2.77	0.52
1:B:15:G:C8	1:B:1255:U:C1'	2.93	0.52
1:B:28:A:N7	1:B:673:C:C2'	2.70	0.52
1:B:94:A:C5'	1:B:94:A:H4'	2.17	0.52
1:B:101:A:N7	1:B:102:U:C4	2.78	0.52
1:B:277:G:C1'	1:B:277:G:C8	2.83	0.52
1:B:285:G:C5'	1:B:401:A:H5"	2.27	0.52
1:B:513:A:H5'	1:B:514:A:P	2.49	0.52
1:B:563:A:H61	1:B:988:A:H61	1.57	0.52
1:B:568:U:N1	1:B:569:U:OP2	2.43	0.52
1:B:570:G:O6	1:B:2044:C:N4	2.42	0.52
1:B:670:A:N3	1:B:671:C:H5"	2.25	0.52
1:B:749:A:N7	1:B:750:A:N7	2.58	0.52
1:B:895:U:H2'	1:B:896:A:H2'	1.91	0.52
1:B:990:A:C3'	1:B:991:C:P	2.97	0.52
1:B:1104:C:O5'	1:B:1104:C:H6	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1203:U:H1'	1:B:1240:U:N3	2.24	0.52
1:B:1285:A:C1'	1:B:1285:A:C8	2.79	0.52
1:B:1371:G:H2'	1:B:1372:U:O5'	2.09	0.52
1:B:1490:A:C2	1:B:1494:A:H4'	2.45	0.52
1:B:1782:U:N3	1:B:1783:A:C6	2.78	0.52
1:B:1792:G:C4'	1:B:1942:C:H2'	2.40	0.52
1:B:1823:G:P	1:B:1831:G:H5"	2.50	0.52
1:B:1884:G:OP2	1:B:1884:G:C3'	2.45	0.52
1:B:1971:U:N3	1:B:2554:U:C5	2.78	0.52
1:B:2055:C:C5'	1:B:2055:C:O4'	2.50	0.52
1:B:2202:U:C5'	1:B:2203:U:H5"	2.33	0.52
1:B:2497:A:C4'	1:B:2657:A:N1	2.72	0.52
1:B:2733:A:C8	1:B:2778:A:H1'	2.45	0.52
1:B:2739:U:O3'	1:B:2740:A:C2	2.62	0.52
1:B:2751:G:H2'	1:B:2751:G:N3	2.25	0.52
1:B:2754:U:C5'	1:B:2755:C:H5"	2.40	0.52
1:B:2755:C:H2'	1:B:2756:U:O4'	2.10	0.52
1:B:2871:U:C4'	1:B:2872:A:C4	2.91	0.52
1:B:3:U:H2'	1:B:4:U:H6	1.75	0.51
1:B:11:C:C6	1:B:1195:G:OP2	2.62	0.51
1:B:71:A:C2	1:B:119:A:N7	2.78	0.51
1:B:76:C:H5"	1:B:120:U:OP2	2.05	0.51
1:B:195:A:C5'	1:B:196:A:OP2	2.49	0.51
1:B:201:C:C3'	1:B:203:A:OP1	2.53	0.51
1:B:226:A:N6	1:B:431:U:H4'	2.24	0.51
1:B:265:A:N7	1:B:369:U:O2	2.43	0.51
1:B:372:G:H2'	1:B:373:U:O5'	2.10	0.51
1:B:487:C:O3'	1:B:488:G:H4'	2.10	0.51
1:B:537:G:C1'	1:B:537:G:C8	2.83	0.51
1:B:612:G:O2'	1:B:613:A:C8	2.62	0.51
1:B:704:G:C1'	1:B:704:G:C8	2.81	0.51
1:B:800:A:O2'	1:B:801:G:O5'	2.27	0.51
1:B:805:G:H1'	1:B:1252:G:H4'	1.85	0.51
1:B:1019:U:O2'	1:B:1028:A:H5'	2.10	0.51
1:B:1021:A:H2'	1:B:2463:C:OP1	2.10	0.51
1:B:1134:A:C5'	1:B:1141:U:H4'	2.40	0.51
1:B:1142:A:H5'	1:B:1143:A:C8	2.38	0.51
1:B:1211:C:H6	1:B:1235:G:O2'	1.90	0.51
1:B:1287:A:H2'	1:B:1288:G:H1'	1.92	0.51
1:B:1348:C:C4'	1:B:1348:C:H5'	2.19	0.51
1:B:1359:A:C1'	1:B:1359:A:C8	2.80	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1427:A:C6	1:B:1574:C:C6	2.99	0.51
1:B:1451:C:OP1	1:B:1526:C:O2'	2.27	0.51
1:B:1545:A:O2'	1:B:1546:G:O5'	2.27	0.51
1:B:1666:G:OP2	1:B:1758:U:C5	2.63	0.51
1:B:1699:G:H2'	1:B:1700:A:C8	2.45	0.51
1:B:1719:G:C1'	1:B:1719:G:C8	2.80	0.51
1:B:1744:A:H5"	1:B:1745:A:OP2	2.10	0.51
1:B:1819:A:H61	1:B:1934:C:N4	2.08	0.51
1:B:1855:U:O5'	1:B:1884:G:N2	2.43	0.51
1:B:1933:G:H1'	1:B:1939:5MU:C4'	2.40	0.51
1:B:1942:C:H1'	1:B:2442:C:H1'	1.91	0.51
1:B:1971:U:H5	1:B:2554:U:C4'	2.22	0.51
1:B:2496:C:C3'	1:B:2497:A:C5'	2.88	0.51
1:B:2505:G:C3'	1:B:2505:G:HO3'	2.12	0.51
1:B:2638:G:N3	1:B:2638:G:H2'	2.24	0.51
1:B:2689:U:OP2	1:B:2725:A:C4'	2.58	0.51
1:B:2845:U:O2'	1:B:2845:U:C2	2.62	0.51
1:B:2879:A:N3	1:B:2879:A:H2'	2.26	0.51
1:B:10:A:H5"	1:B:525:U:HO2'	1.75	0.51
1:B:13:A:C1'	1:B:584:C:H41	2.23	0.51
1:B:27:G:H2'	1:B:28:A:OP2	2.09	0.51
1:B:72:U:H2'	1:B:115:C:P	2.50	0.51
1:B:72:U:H5'	1:B:118:A:H2	1.75	0.51
1:B:84:A:C6	1:B:96:C:N4	2.76	0.51
1:B:110:G:O3'	1:B:170:U:C3'	2.57	0.51
1:B:120:U:H1'	1:B:148:U:OP1	2.10	0.51
1:B:199:A:C3'	1:B:200:U:H5'	2.40	0.51
1:B:465:G:N3	1:B:479:A:C2	2.78	0.51
1:B:476:G:H21	1:B:804:A:N6	2.08	0.51
1:B:488:G:C1'	1:B:488:G:C8	2.80	0.51
1:B:647:G:P	1:B:653:U:H5'	2.49	0.51
1:B:735:A:H1'	1:B:736:C:H5	1.70	0.51
1:B:777:G:H21	1:B:788:A:H2'	1.73	0.51
1:B:779:U:O4	1:B:794:A:P	2.68	0.51
1:B:783:A:H2	1:B:784:G:O4'	1.92	0.51
1:B:802:A:H2'	1:B:1253:A:H5'	1.92	0.51
1:B:845:A:H3'	1:B:931:U:H3	1.71	0.51
1:B:866:A:H2	1:B:915:C:H2'	1.62	0.51
1:B:1127:A:N1	1:B:2750:A:N6	2.58	0.51
1:B:1430:C:O2'	1:B:1566:A:N6	2.27	0.51
1:B:1581:G:C3'	1:B:1628:G:OP2	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1791:A:N7	1:B:2441:U:H4'	2.24	0.51
1:B:1966:A:C3'	1:B:1967:C:H3'	2.40	0.51
1:B:2012:G:C1'	1:B:2012:G:C4	2.81	0.51
1:B:2022:U:C2'	1:B:2023:C:H5'	2.40	0.51
1:B:2111:U:C6	1:B:2111:U:C1'	2.89	0.51
1:B:2129:C:H2'	1:B:2130:U:H5"	1.92	0.51
1:B:2269:G:C1'	1:B:2269:G:C8	2.80	0.51
1:B:2323:G:N2	1:B:2333:A:O2'	2.42	0.51
1:B:2749:A:C1'	1:B:2749:A:C8	2.77	0.51
1:B:51:G:C1'	1:B:51:G:C8	2.80	0.51
1:B:72:U:H3'	1:B:114:U:C5'	2.39	0.51
1:B:110:G:C3'	1:B:170:U:O3'	2.58	0.51
1:B:141:G:O6	1:B:1324:G:C2'	2.58	0.51
1:B:179:C:O2'	1:B:197:A:H5'	2.03	0.51
1:B:215:G:C5'	1:B:218:A:O3'	2.58	0.51
1:B:400:G:N3	1:B:400:G:H2'	2.25	0.51
1:B:502:A:N7	1:B:503:A:O4'	2.43	0.51
1:B:506:G:C1'	1:B:506:G:C8	2.82	0.51
1:B:507:A:C6	1:B:518:G:C4'	2.89	0.51
1:B:513:A:H5'	1:B:514:A:OP2	2.09	0.51
1:B:837:C:O3'	1:B:976:G:OP2	2.29	0.51
1:B:899:A:OP1	1:B:902:C:H5'	2.11	0.51
1:B:1110:G:C3'	1:B:1111:A:H5'	2.40	0.51
1:B:1117:C:P	1:B:2750:A:N3	2.83	0.51
1:B:1128:G:H3'	1:B:2752:C:P	2.50	0.51
1:B:1274:A:C8	1:B:1274:A:O2'	2.60	0.51
1:B:1419:A:O3'	1:B:1419:A:H4'	2.10	0.51
1:B:1451:C:O3'	1:B:1526:C:O4'	2.27	0.51
1:B:1610:A:N1	1:B:1612:C:C5	2.77	0.51
1:B:1755:A:H5"	1:B:1764:C:C1'	2.38	0.51
1:B:1770:G:O3'	1:B:1771:C:OP1	2.25	0.51
1:B:1884:G:C2'	1:B:1886:U:OP1	2.58	0.51
1:B:1915:5MU:C4	1:B:1916:A:N7	2.79	0.51
1:B:2016:U:O2	1:B:2016:U:C2'	2.58	0.51
1:B:2161:C:C2'	1:B:2168:G:O6	2.58	0.51
1:B:2170:A:N3	1:B:2172:U:OP2	2.42	0.51
1:B:2307:G:C1'	1:B:2307:G:C8	2.81	0.51
1:B:2684:U:O5'	1:B:2722:G:OP2	2.28	0.51
1:B:2718:G:O3'	1:B:2720:U:C2	2.63	0.51
1:B:2872:A:C1'	1:B:2872:A:C8	2.81	0.51
1:B:11:C:O5'	1:B:586:A:H4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:U:OP2	1:B:586:A:OP1	2.29	0.51
1:B:24:G:OP1	1:B:486:C:H5"	2.10	0.51
1:B:28:A:C4	1:B:674:G:O5'	2.62	0.51
1:B:52:A:H4'	1:B:176:A:C8	2.46	0.51
1:B:71:A:C1'	1:B:71:A:C8	2.81	0.51
1:B:140:C:O2	1:B:1332:G:C1'	2.53	0.51
1:B:189:G:C1'	1:B:189:G:C8	2.80	0.51
1:B:373:U:H2'	1:B:374:A:OP1	2.10	0.51
1:B:411:G:C4'	1:B:2406:A:H2'	2.37	0.51
1:B:528:A:O2'	1:B:974:G:O5'	2.29	0.51
1:B:545:U:O3'	1:B:546:U:H6	1.92	0.51
1:B:764:A:H5'	1:B:765:C:C5'	2.34	0.51
1:B:802:A:OP1	1:B:802:A:C2	2.64	0.51
1:B:820:A:N3	1:B:2628:C:O2	2.43	0.51
1:B:821:A:C4'	1:B:822:G:N7	2.73	0.51
1:B:844:A:C5'	1:B:847:U:C5	2.93	0.51
1:B:914:G:N2	1:B:916:G:N3	2.59	0.51
1:B:926:G:H4'	1:B:927:A:OP2	2.10	0.51
1:B:1040:A:OP1	1:B:1048:A:N3	2.43	0.51
1:B:1211:C:H5	1:B:1236:G:N3	2.07	0.51
1:B:1241:A:O2'	1:B:1243:C:O2	2.19	0.51
1:B:1346:G:H4'	1:B:1348:C:C1'	2.40	0.51
1:B:1354:A:H2'	1:B:1354:A:N3	2.25	0.51
1:B:1417:C:O2	1:B:1635:A:N3	2.44	0.51
1:B:1446:C:P	1:B:1543:G:O6	2.68	0.51
1:B:1453:A:C4'	1:B:1524:G:C8	2.92	0.51
1:B:1509:A:H2'	1:B:1510:G:C8	2.45	0.51
1:B:1583:A:OP2	1:B:1584:U:H5'	2.10	0.51
1:B:1696:G:C4'	1:B:1697:G:C8	2.82	0.51
1:B:1756:G:C1'	1:B:1756:G:C8	2.80	0.51
1:B:1931:U:C1'	1:B:1935:G:C1'	2.80	0.51
1:B:1937:A:P	1:B:1938:A:O4'	2.69	0.51
1:B:2051:A:C2	1:B:2610:C:OP1	2.63	0.51
1:B:2060:A:H3'	1:B:2446:G:O3'	2.09	0.51
1:B:2366:A:P	1:B:2366:A:O4'	2.69	0.51
1:B:2682:A:N3	1:B:2721:A:OP2	2.43	0.51
1:B:2701:U:H5"	1:B:2702:G:OP2	2.10	0.51
1:B:2713:U:C3'	1:B:2714:G:H5'	2.38	0.51
1:B:2787:C:P	1:B:2813:A:H5'	2.50	0.51
1:B:2819:G:C3'	1:B:2820:A:H3'	2.37	0.51
1:B:2871:U:H5'	1:B:2872:A:C2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2887:A:N1	1:B:2889:C:C5	2.79	0.51
1:B:2892:G:C1'	1:B:2892:G:C8	2.80	0.51
1:B:10:A:H4'	1:B:525:U:C2'	2.40	0.51
1:B:11:C:O3'	1:B:586:A:O5'	2.29	0.51
1:B:28:A:H1'	1:B:674:G:H5"	1.91	0.51
1:B:91:A:H2	1:B:94:A:H62	0.68	0.51
1:B:101:A:C3'	1:B:103:A:O3'	2.58	0.51
1:B:266:G:N2	1:B:269:C:C5	2.79	0.51
1:B:453:A:H62	1:B:477:A:H61	1.59	0.51
1:B:464:U:O4	1:B:466:A:C6	2.63	0.51
1:B:598:U:C5'	1:B:937:C:H5"	2.06	0.51
1:B:675:A:OP2	1:B:801:G:N3	2.43	0.51
1:B:706:A:C2'	1:B:707:G:C8	2.93	0.51
1:B:1047:G:H4'	1:B:1102:C:OP1	2.10	0.51
1:B:1129:A:C8	1:B:2752:C:O2	2.63	0.51
1:B:1135:C:C6	1:B:1140:C:C4'	2.91	0.51
1:B:1284:A:H3'	1:B:1285:A:O4'	2.09	0.51
1:B:1615:C:O2	1:B:1615:C:H2'	2.10	0.51
1:B:1664:A:P	1:B:1665:A:OP2	2.68	0.51
1:B:1715:G:C1'	1:B:1715:G:C8	2.81	0.51
1:B:1720:U:H2'	1:B:1721:G:O5'	2.11	0.51
1:B:1756:G:O2'	1:B:1757:A:C8	2.48	0.51
1:B:1789:A:C4'	1:B:2444:G:OP1	2.59	0.51
1:B:1839:G:H5"	1:B:1840:G:N7	2.22	0.51
1:B:1884:G:N3	1:B:1884:G:H2'	2.25	0.51
1:B:1933:G:C2'	1:B:1939:5MU:P	2.92	0.51
1:B:1954:G:H5"	1:B:1955:U:H3'	1.92	0.51
1:B:2275:C:OP2	1:B:2426:A:H5'	2.09	0.51
1:B:2282:G:C1'	1:B:2282:G:C8	2.80	0.51
1:B:2284:A:C8	1:B:2388:A:H4'	2.41	0.51
1:B:2322:A:P	1:B:2322:A:HO5'	2.31	0.51
1:B:2482:A:C3'	1:B:2484:G:OP2	2.59	0.51
1:B:2685:G:N3	1:B:2722:G:H2'	2.24	0.51
1:B:2790:U:H2'	1:B:2892:G:OP1	2.09	0.51
1:B:2844:G:N2	1:B:2844:G:OP1	2.43	0.51
1:B:216:A:H4'	1:B:218:A:H1'	1.90	0.51
1:B:445:C:H3'	1:B:470:A:C1'	2.41	0.51
1:B:449:A:C5'	1:B:449:A:O4'	2.54	0.51
1:B:638:G:O6	1:B:651:G:N7	2.43	0.51
1:B:733:G:C1'	1:B:733:G:C8	2.81	0.51
1:B:748:G:C1'	1:B:748:G:C8	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1096:A:H8	1:B:1096:A:O5'	1.94	0.51
1:B:1186:G:C1'	1:B:1186:G:C8	2.82	0.51
1:B:1294:U:C5	1:B:1295:C:C5	2.98	0.51
1:B:1382:G:C4'	1:B:1383:A:OP2	2.59	0.51
1:B:1630:A:C3'	1:B:1631:G:C5'	2.57	0.51
1:B:1696:G:HO2'	1:B:2702:G:H2'	1.69	0.51
1:B:1906:G:C5'	1:B:1927:A:O3'	2.59	0.51
1:B:1932:A:O5'	1:B:1941:C:O2	2.29	0.51
1:B:1947:C:H1'	1:B:1963:U:O2'	2.10	0.51
1:B:2059:A:C8	1:B:2556:C:O2	2.64	0.51
1:B:2364:C:O3'	1:B:2366:A:C4	2.64	0.51
1:B:2685:G:C2	1:B:2722:G:O3'	2.64	0.51
1:B:2806:C:O2	1:B:2807:U:O2'	2.27	0.51
1:B:2833:U:C5'	1:B:2834:G:P	2.91	0.51
1:B:2849:U:OP2	1:B:2871:U:O2'	2.29	0.51
1:B:28:A:N6	1:B:1252:G:C8	2.77	0.51
1:B:46:G:C4'	1:B:46:G:H5'	2.21	0.51
1:B:64:A:N7	1:B:86:G:OP1	2.43	0.51
1:B:78:U:P	1:B:99:U:O4'	2.68	0.51
1:B:140:C:O3'	1:B:141:G:O4'	2.28	0.51
1:B:213:A:OP1	1:B:244:A:C8	2.64	0.51
1:B:217:A:C5'	1:B:218:A:P	2.99	0.51
1:B:228:C:C3'	1:B:229:C:C6	2.46	0.51
1:B:240:C:C5'	1:B:275:C:C3'	2.88	0.51
1:B:320:A:C8	1:B:325:G:C5'	2.92	0.51
1:B:365:U:OP2	1:B:369:U:OP2	2.29	0.51
1:B:450:G:OP1	1:B:452:G:C4	2.64	0.51
1:B:525:U:H2'	1:B:811:U:H6	1.72	0.51
1:B:535:G:H4'	1:B:950:G:H4'	1.93	0.51
1:B:555:G:C1'	1:B:555:G:C8	2.81	0.51
1:B:570:G:C5	1:B:572:A:H2'	2.45	0.51
1:B:603:A:C1'	1:B:603:A:C8	2.79	0.51
1:B:920:A:H8	1:B:920:A:OP1	1.89	0.51
1:B:1021:A:C2	1:B:1022:G:OP2	2.64	0.51
1:B:1047:G:H5'	1:B:1049:C:H2'	1.83	0.51
1:B:1133:A:C4	1:B:1142:A:N1	2.79	0.51
1:B:1312:U:O4'	1:B:1640:A:O2'	2.29	0.51
1:B:1416:G:H5"	1:B:1637:A:C5'	2.41	0.51
1:B:1418:G:O4'	1:B:1635:A:C5	2.64	0.51
1:B:1426:G:C1'	1:B:1426:G:C8	2.79	0.51
1:B:1641:A:N3	1:B:1642:G:OP2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1690:A:H3'	1:B:1691:C:C5'	2.38	0.51
1:B:1853:A:O2'	1:B:1854:A:O4'	2.29	0.51
1:B:1939:5MU:C5	1:B:1940:U:OP1	2.61	0.51
1:B:2035:G:C1'	1:B:2035:G:C8	2.81	0.51
1:B:2161:C:H1'	1:B:2168:G:N1	2.16	0.51
1:B:2849:U:H5"	1:B:2850:A:H5"	1.91	0.51
1:B:2903:U:H2'	1:B:2904:U:OP1	2.11	0.51
1:B:24:G:H5"	1:B:486:C:H5"	1.93	0.51
1:B:78:U:O5'	1:B:99:U:H5'	2.10	0.51
1:B:189:G:H5'	1:B:191:A:P	2.48	0.51
1:B:212:G:H5"	1:B:245:G:P	2.50	0.51
1:B:238:C:N4	1:B:277:G:P	2.84	0.51
1:B:255:A:C2	1:B:276:U:H5	2.28	0.51
1:B:263:G:H2'	1:B:369:U:C5	2.46	0.51
1:B:270:A:H3'	1:B:271:G:O4'	2.09	0.51
1:B:293:U:P	1:B:336:C:O2'	2.68	0.51
1:B:294:A:N9	1:B:326:G:N2	2.59	0.51
1:B:563:A:C2	1:B:564:C:C5'	2.91	0.51
1:B:747:5MU:P	1:B:748:G:H3'	2.51	0.51
1:B:757:G:C2'	1:B:758:C:C5'	2.88	0.51
1:B:803:U:H1'	1:B:1255:U:H5'	1.90	0.51
1:B:861:A:OP1	1:B:862:G:C4'	2.59	0.51
1:B:862:G:O2'	1:B:863:A:H5'	2.11	0.51
1:B:927:A:C4'	1:B:928:A:OP1	2.58	0.51
1:B:1022:G:H5'	1:B:2463:C:O5'	2.10	0.51
1:B:1040:A:H5"	1:B:1050:A:C1'	2.41	0.51
1:B:1282:U:C2	1:B:1286:A:N6	2.78	0.51
1:B:1351:C:C5'	1:B:1352:U:P	2.96	0.51
1:B:1477:A:C5'	1:B:1478:G:O4'	2.53	0.51
1:B:1522:A:C2'	1:B:1528:A:C2'	2.89	0.51
1:B:1528:A:C1'	1:B:1528:A:C4	2.83	0.51
1:B:1542:U:HO2'	1:B:1543:G:P	2.34	0.51
1:B:1628:G:H5'	1:B:1641:A:HO2'	1.76	0.51
1:B:1773:A:H2'	1:B:1773:A:N3	2.26	0.51
1:B:1803:A:OP2	1:B:1804:C:O2	2.28	0.51
1:B:1854:A:C4'	1:B:1888:G:C4	2.93	0.51
1:B:1869:G:H2'	1:B:1869:G:N3	2.25	0.51
1:B:1870:C:C5'	1:B:2159:G:OP2	2.59	0.51
1:B:1937:A:O5'	1:B:1938:A:O5'	2.29	0.51
1:B:1964:G:O2'	1:B:1965:C:P	2.68	0.51
1:B:1971:U:O2'	1:B:1972:G:C3'	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2055:C:C6	1:B:2055:C:OP2	2.64	0.51
1:B:2110:G:O4'	1:B:2119:A:N7	2.44	0.51
1:B:2375:G:OP2	1:B:2375:G:H4'	2.10	0.51
1:B:2501:C:C4'	1:B:2574:G:C8	2.94	0.51
1:B:2688:G:C1'	1:B:2688:G:C8	2.80	0.51
1:B:2774:C:H2'	1:B:2775:G:O4'	2.10	0.51
1:B:2859:G:C2'	1:B:2860:A:C5'	2.61	0.51
1:B:73:A:O3'	1:B:74:A:C5'	2.59	0.51
1:B:138:U:C2'	1:B:139:U:H5'	2.41	0.51
1:B:202:U:OP2	1:B:204:A:C4'	2.57	0.51
1:B:270:A:C2'	1:B:270:A:O3'	2.56	0.51
1:B:475:C:P	1:B:477:A:H61	2.34	0.51
1:B:910:A:H2'	1:B:911:A:C4'	2.41	0.51
1:B:971:G:HO3'	1:B:972:A:P	2.26	0.51
1:B:1050:A:P	1:B:1052:C:H5	2.33	0.51
1:B:1281:G:H3'	1:B:1282:U:H4'	1.93	0.51
1:B:1283:G:C3'	1:B:2012:G:N2	2.69	0.51
1:B:1420:A:P	1:B:1569:A:C2	2.91	0.51
1:B:1445:G:C1'	1:B:1445:G:C8	2.79	0.51
1:B:1459:G:C2'	1:B:1461:C:OP2	2.59	0.51
1:B:1675:C:C5'	1:B:1679:A:O2'	2.58	0.51
1:B:1755:A:C4	1:B:1765:U:C5'	2.94	0.51
1:B:1854:A:P	1:B:1888:G:C1'	2.99	0.51
1:B:1933:G:N9	1:B:1939:5MU:P	2.84	0.51
1:B:2111:U:N1	1:B:2112:G:O5'	2.42	0.51
1:B:2144:G:C1'	1:B:2144:G:C8	2.81	0.51
1:B:2179:C:N4	1:B:2181:U:OP1	2.44	0.51
1:B:2212:A:C2'	1:B:2213:U:C5'	2.76	0.51
1:B:2237:G:O2'	1:B:2238:G:H8	1.94	0.51
1:B:2528:U:C5	1:B:2529:G:C8	2.99	0.51
1:B:2675:A:O2'	1:B:2676:C:O5'	2.24	0.51
1:B:2682:A:H4'	1:B:2687:U:C4	2.46	0.51
1:B:2688:G:O2'	1:B:2689:U:O5'	2.28	0.51
1:B:99:U:C2	1:B:102:U:O4'	2.63	0.51
1:B:138:U:O2	1:B:139:U:C5'	2.59	0.51
1:B:214:G:N1	1:B:254:G:C2'	2.72	0.51
1:B:257:C:H3'	1:B:258:G:C5'	2.41	0.51
1:B:366:C:OP2	1:B:368:A:C1'	2.54	0.51
1:B:526:A:C2	1:B:527:C:C4'	2.91	0.51
1:B:535:G:H5"	1:B:950:G:O4'	2.07	0.51
1:B:706:A:N6	1:B:727:A:O2'	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:804:A:C4'	1:B:1254:A:C6	2.94	0.51
1:B:805:G:C1'	1:B:805:G:C8	2.82	0.51
1:B:821:A:C4	1:B:2628:C:C5	2.99	0.51
1:B:1019:U:O2	1:B:1028:A:OP1	2.28	0.51
1:B:1049:C:N4	1:B:1050:A:N9	2.59	0.51
1:B:1233:C:H3'	1:B:1236:G:OP1	2.11	0.51
1:B:1248:G:C1'	1:B:1248:G:C8	2.82	0.51
1:B:1459:G:O6	1:B:1544:A:C8	2.64	0.51
1:B:1475:G:C1'	1:B:1475:G:C8	2.80	0.51
1:B:1674:G:C1'	1:B:1674:G:C4	2.81	0.51
1:B:1692:U:O2'	1:B:1698:A:C5'	2.59	0.51
1:B:1940:U:C4	1:B:2553:G:C5'	2.93	0.51
1:B:2133:G:C1'	1:B:2133:G:C8	2.79	0.51
1:B:2253:G:O2'	1:B:2254:C:OP2	2.25	0.51
1:B:2451:A:C2	1:B:2562:U:C3'	2.94	0.51
1:B:2451:A:O5'	1:B:2562:U:OP1	2.29	0.51
1:B:2733:A:C8	1:B:2778:A:N9	2.78	0.51
1:B:2848:G:O3'	1:B:2872:A:C4'	2.59	0.51
1:B:2849:U:OP2	1:B:2871:U:C1'	2.56	0.51
1:B:15:G:H2'	1:B:16:C:H5'	1.92	0.50
1:B:72:U:P	1:B:105:C:OP1	2.69	0.50
1:B:94:A:O3'	1:B:94:A:H4'	2.12	0.50
1:B:148:U:H5"	1:B:149:A:C5'	2.41	0.50
1:B:180:G:H2'	1:B:181:A:OP2	2.11	0.50
1:B:221:A:O4'	1:B:278:A:O2'	2.29	0.50
1:B:310:A:C3'	1:B:483:A:C6	2.92	0.50
1:B:345:A:N6	1:B:463:G:N1	2.57	0.50
1:B:469:G:C1'	1:B:469:G:C8	2.82	0.50
1:B:620:G:C1'	1:B:620:G:C8	2.81	0.50
1:B:845:A:C5	1:B:846:U:C5	2.99	0.50
1:B:1133:A:N3	1:B:1142:A:N1	2.59	0.50
1:B:1174:U:C4	1:B:1175:A:N6	2.80	0.50
1:B:1197:G:HO3'	1:B:1198:U:P	2.30	0.50
1:B:1197:G:HO2'	1:B:1256:G:H1'	1.72	0.50
1:B:1233:C:OP2	1:B:1236:G:C3'	2.55	0.50
1:B:1427:A:N7	1:B:1566:A:N1	2.58	0.50
1:B:1490:A:C2	1:B:1494:A:H5'	2.46	0.50
1:B:1672:A:N3	1:B:1674:G:OP1	2.41	0.50
1:B:1696:G:P	1:B:2703:C:N4	2.83	0.50
1:B:1718:G:C3'	1:B:1720:U:C1'	2.79	0.50
1:B:1803:A:H3'	1:B:1804:C:O5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1853:A:O3'	1:B:1888:G:C5'	2.59	0.50
1:B:1950:G:C2	1:B:1951:U:C2'	2.95	0.50
1:B:2115:G:OP1	1:B:2121:G:OP1	2.29	0.50
1:B:2116:G:C1'	1:B:2116:G:C8	2.80	0.50
1:B:2374:C:H2'	1:B:2376:A:H5"	1.92	0.50
1:B:2652:C:C2'	1:B:2653:U:H5'	2.42	0.50
1:B:2685:G:N2	1:B:2723:C:P	2.84	0.50
1:B:2869:G:O4'	1:B:2873:A:O5'	2.29	0.50
1:B:28:A:H5'	1:B:1250:G:H5'	1.86	0.50
1:B:189:G:H5'	1:B:190:A:O2'	2.12	0.50
1:B:212:G:C5'	1:B:245:G:OP1	2.59	0.50
1:B:216:A:C8	1:B:257:C:N3	2.79	0.50
1:B:217:A:C4'	1:B:218:A:OP2	2.43	0.50
1:B:221:A:C4	1:B:222:A:N3	2.79	0.50
1:B:247:G:H2'	1:B:248:G:N7	2.26	0.50
1:B:367:G:H2'	1:B:367:G:N3	2.26	0.50
1:B:499:U:N3	1:B:505:A:C4	2.78	0.50
1:B:578:G:C1'	1:B:578:G:C8	2.81	0.50
1:B:619:G:C1'	1:B:619:G:C8	2.82	0.50
1:B:669:G:C1'	1:B:669:G:C8	2.82	0.50
1:B:728:G:C1'	1:B:728:G:C8	2.79	0.50
1:B:779:U:N3	1:B:794:A:N7	2.58	0.50
1:B:784:G:C1'	1:B:784:G:C8	2.80	0.50
1:B:840:C:C4'	1:B:962:G:HO2'	2.11	0.50
1:B:864:G:N2	1:B:909:A:C5	2.80	0.50
1:B:1024:G:C8	1:B:2467:C:P	3.04	0.50
1:B:1066:U:O2	1:B:1069:A:H8	1.94	0.50
1:B:1352:U:O2'	1:B:1353:A:O5'	2.28	0.50
1:B:1353:A:H5"	1:B:1354:A:C8	2.46	0.50
1:B:1469:A:C5'	1:B:1528:A:H62	2.24	0.50
1:B:1516:G:HO2'	1:B:1517:G:H3'	1.76	0.50
1:B:1571:A:N3	1:B:1572:A:OP1	2.44	0.50
1:B:1582:C:O2'	1:B:1584:U:H4'	2.11	0.50
1:B:1613:G:N3	1:B:1615:C:N4	2.60	0.50
1:B:1668:A:N1	1:B:1755:A:H4'	2.26	0.50
1:B:1697:G:C1'	1:B:1697:G:C8	2.83	0.50
1:B:1737:G:C6	1:B:1739:A:C5'	2.91	0.50
1:B:1847:A:H4'	1:B:1848:A:P	2.51	0.50
1:B:1937:A:O5'	1:B:1938:A:OP2	2.29	0.50
1:B:2130:U:C5	1:B:2159:G:N2	2.73	0.50
1:B:2365:G:C1'	1:B:2365:G:C8	2.81	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2451:A:N7	1:B:2567:G:N2	2.59	0.50
1:B:2469:A:H3'	1:B:2470:G:OP1	2.10	0.50
1:B:2554:U:HO2'	1:B:2555:U:C5'	2.23	0.50
1:B:2734:A:H3'	1:B:2735:G:H5"	1.82	0.50
1:B:2753:A:OP1	1:B:2753:A:O4'	2.29	0.50
1:B:2780:G:C5'	1:B:2781:A:N7	2.74	0.50
1:B:3:U:H2'	1:B:4:U:C6	2.47	0.50
1:B:72:U:C2'	1:B:115:C:P	2.99	0.50
1:B:75:G:O2'	1:B:100:U:H5	1.94	0.50
1:B:77:G:P	1:B:99:U:C2	3.04	0.50
1:B:99:U:H5"	1:B:102:U:O2	2.06	0.50
1:B:112:U:H2'	1:B:119:A:C8	2.47	0.50
1:B:317:G:C5'	1:B:321:U:H5	2.25	0.50
1:B:335:C:H4'	1:B:341:C:C4	2.31	0.50
1:B:363:G:C6	1:B:428:A:N6	2.78	0.50
1:B:483:A:H2'	1:B:483:A:N3	2.25	0.50
1:B:500:G:H5"	1:B:503:A:C5'	2.42	0.50
1:B:507:A:N7	1:B:518:G:H4'	2.19	0.50
1:B:685:A:O5'	1:B:788:A:C8	2.64	0.50
1:B:728:G:H1'	1:B:729:G:C4'	2.41	0.50
1:B:941:A:O2'	1:B:973:A:C4	2.63	0.50
1:B:1027:A:H4'	1:B:1134:A:C8	2.46	0.50
1:B:1030:C:N4	1:B:1126:A:OP2	2.44	0.50
1:B:1047:G:P	1:B:1050:A:OP1	2.69	0.50
1:B:1437:C:OP2	1:B:1438:U:C2	2.65	0.50
1:B:1453:A:H4'	1:B:1524:G:H8	1.74	0.50
1:B:1527:G:H2'	1:B:1529:G:H8	1.76	0.50
1:B:1527:G:H2'	1:B:1529:G:C8	2.47	0.50
1:B:1568:G:OP1	1:B:1572:A:H8	1.93	0.50
1:B:1586:A:H8	1:B:1588:G:C8	2.30	0.50
1:B:1670:C:C6	1:B:1749:A:H4'	2.46	0.50
1:B:1674:G:C5'	1:B:1678:A:C6	2.92	0.50
1:B:1698:A:H2'	1:B:1699:G:O4'	2.10	0.50
1:B:1847:A:C6	1:B:1889:A:H8	2.30	0.50
1:B:1934:C:HO2'	1:B:1935:G:P	2.34	0.50
1:B:1936:A:C4'	1:B:1939:5MU:P	2.99	0.50
1:B:1944:U:C5'	1:B:2072:C:P	2.96	0.50
1:B:2126:A:H4'	1:B:2127:G:H5"	1.91	0.50
1:B:2253:G:C1'	1:B:2253:G:C8	2.82	0.50
1:B:2275:C:C5'	1:B:2427:C:C1'	2.90	0.50
1:B:2379:G:H1'	1:B:2393:U:HO2'	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2571:U:C5'	1:B:2647:U:C1'	2.86	0.50
1:B:2598:A:O2'	1:B:2599:G:C5'	2.52	0.50
1:B:2734:A:OP1	1:B:2735:G:H1'	2.10	0.50
1:B:2754:U:H5'	1:B:2755:C:C5'	2.41	0.50
1:B:2848:G:O3'	1:B:2869:G:O2'	2.29	0.50
1:B:2879:A:H8	1:B:2881:U:O4	1.93	0.50
1:B:2882:A:C2	1:B:2883:A:N6	2.72	0.50
1:B:2883:A:C2	1:B:2886:A:OP1	2.64	0.50
1:B:112:U:C2'	1:B:119:A:C4	2.95	0.50
1:B:239:C:N4	1:B:276:U:C3'	2.73	0.50
1:B:329:G:H21	1:B:336:C:H41	1.59	0.50
1:B:422:A:N3	1:B:422:A:H2'	2.26	0.50
1:B:455:C:H5"	1:B:456:C:C5'	2.30	0.50
1:B:470:A:C1'	1:B:470:A:C4	2.83	0.50
1:B:509:C:O2	1:B:509:C:C2'	2.57	0.50
1:B:512:G:C2'	1:B:513:A:C5'	2.48	0.50
1:B:530:G:H5'	1:B:949:G:H5'	1.93	0.50
1:B:647:G:O5'	1:B:653:U:H5"	2.11	0.50
1:B:783:A:C1'	1:B:783:A:C8	2.77	0.50
1:B:1004:U:O2'	1:B:1005:C:OP1	2.28	0.50
1:B:1023:U:C5	1:B:2484:G:C5	2.99	0.50
1:B:1032:A:H8	1:B:1127:A:C2'	2.24	0.50
1:B:1053:C:C2'	1:B:1054:A:H5'	2.42	0.50
1:B:1115:G:C4	1:B:2749:A:H5'	2.46	0.50
1:B:1130:U:H2'	1:B:2753:A:O5'	2.10	0.50
1:B:1198:U:H5'	1:B:1256:G:HO2'	1.77	0.50
1:B:1274:A:OP1	1:B:1275:A:C3'	2.57	0.50
1:B:1287:A:N1	1:B:2010:G:N2	2.59	0.50
1:B:1334:G:H5"	1:B:1416:G:OP1	2.11	0.50
1:B:1353:A:H5"	1:B:1354:A:N7	2.26	0.50
1:B:1379:U:H2'	1:B:1380:G:OP1	2.11	0.50
1:B:1464:G:N2	1:B:1466:U:H1'	2.17	0.50
1:B:1543:G:C1'	1:B:1543:G:C8	2.81	0.50
1:B:1692:U:C4'	1:B:1698:A:H8	2.25	0.50
1:B:1782:U:C2	1:B:1783:A:C5	3.00	0.50
1:B:1978:A:C1'	1:B:1978:A:C8	2.77	0.50
1:B:2009:A:H3'	1:B:2010:G:H8	1.76	0.50
1:B:2059:A:C1'	1:B:2445:G:H4'	2.40	0.50
1:B:2061:G:N7	1:B:2551:C:H2'	2.27	0.50
1:B:2322:A:C4'	1:B:2323:G:H5"	2.40	0.50
1:B:2361:G:C1'	1:B:2361:G:C8	2.83	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2501:C:H2'	1:B:2501:C:O2	2.12	0.50
1:B:2502:G:H21	1:B:2769:U:H5'	1.75	0.50
1:B:2764:A:H5'	1:B:2765:A:C8	2.46	0.50
1:B:2809:A:H8	1:B:2884:U:H1'	1.74	0.50
1:B:2820:A:O3'	1:B:2820:A:OP2	2.30	0.50
1:B:110:G:H3'	1:B:170:U:O3'	2.11	0.50
1:B:112:U:C3'	1:B:119:A:C1'	2.80	0.50
1:B:250:G:C1'	1:B:250:G:C8	2.80	0.50
1:B:284:U:OP1	1:B:373:U:C2	2.65	0.50
1:B:360:U:O2	1:B:360:U:C2'	2.57	0.50
1:B:374:A:H5"	1:B:375:G:C3'	2.41	0.50
1:B:461:C:H42	1:B:479:A:N6	2.03	0.50
1:B:570:G:O6	1:B:2044:C:C5	2.64	0.50
1:B:574:A:C8	1:B:2041:U:O3'	2.63	0.50
1:B:830:G:C1'	1:B:830:G:C8	2.81	0.50
1:B:857:G:C4'	1:B:858:G:N7	2.75	0.50
1:B:867:C:C2	1:B:914:G:H3'	2.46	0.50
1:B:905:A:H3'	1:B:906:U:H5'	1.93	0.50
1:B:1004:U:O2	1:B:1009:A:OP1	2.29	0.50
1:B:1117:C:C6	1:B:2750:A:H2'	2.47	0.50
1:B:1130:U:C3'	1:B:2752:C:O3'	2.59	0.50
1:B:1288:G:C2'	1:B:1648:U:HO2'	2.17	0.50
1:B:1301:A:H2'	1:B:1301:A:N3	2.27	0.50
1:B:1352:U:O2'	1:B:1353:A:O4'	2.29	0.50
1:B:1364:G:C1'	1:B:1364:G:C8	2.81	0.50
1:B:1364:G:H2'	1:B:1367:A:H61	1.77	0.50
1:B:1366:A:H5"	1:B:1367:A:OP2	2.12	0.50
1:B:1477:A:N9	1:B:1478:G:H5'	2.25	0.50
1:B:1584:U:C4	1:B:1587:G:C6	2.98	0.50
1:B:1609:A:P	1:B:1609:A:HO5'	2.28	0.50
1:B:1671:U:C5	1:B:1751:U:C5	2.99	0.50
1:B:1674:G:C1'	1:B:1679:A:C3'	2.89	0.50
1:B:1696:G:P	1:B:2703:C:C4	3.05	0.50
1:B:1714:U:C4'	1:B:1715:G:OP2	2.59	0.50
1:B:1774:C:H6	1:B:1774:C:OP2	1.93	0.50
1:B:1853:A:N9	1:B:1888:G:H8	2.07	0.50
1:B:1932:A:C4'	1:B:1941:C:N3	2.74	0.50
1:B:1971:U:O4'	1:B:1971:U:H5"	2.09	0.50
1:B:1989:G:C4'	1:B:1989:G:H5"	2.19	0.50
1:B:2202:U:C2'	1:B:2204:G:C4'	2.90	0.50
1:B:2236:U:C2'	1:B:2237:G:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2245:U:C4	1:B:2427:C:O2	2.65	0.50
1:B:2481:G:C1’	1:B:2481:G:C8	2.80	0.50
1:B:2583:G:C1’	1:B:2583:G:C8	2.82	0.50
1:B:2683:C:O3’	1:B:2722:G:OP2	2.28	0.50
1:B:2833:U:C4’	1:B:2834:G:OP2	2.59	0.50
1:B:2879:A:H5”	1:B:2880:C:C6	2.35	0.50
1:B:10:A:C4’	1:B:525:U:O2’	2.45	0.50
1:B:12:U:C6	1:B:14:A:P	3.05	0.50
1:B:52:A:O3’	1:B:52:A:H3’	1.94	0.50
1:B:53:A:C2	1:B:175:G:OP1	2.65	0.50
1:B:100:U:H5”	1:B:119:A:N9	2.27	0.50
1:B:180:G:N7	1:B:198:C:H5”	2.26	0.50
1:B:310:A:N7	1:B:311:A:C5	2.79	0.50
1:B:458:G:O4’	1:B:594:U:OP1	2.29	0.50
1:B:512:G:C1’	1:B:512:G:C8	2.80	0.50
1:B:684:G:H4’	1:B:776:G:OP1	2.12	0.50
1:B:745:7MG:C3’	1:B:748:G:HO2’	2.23	0.50
1:B:802:A:OP1	1:B:802:A:C4	2.64	0.50
1:B:844:A:O3’	1:B:847:U:C5	2.65	0.50
1:B:931:U:H2’	1:B:932:U:OP2	2.12	0.50
1:B:942:G:H4’	1:B:943:A:N1	2.26	0.50
1:B:1045:C:O5’	1:B:1112:G:C6	2.64	0.50
1:B:1130:U:H2’	1:B:2753:A:OP2	2.11	0.50
1:B:1211:C:H5’	1:B:1235:G:C2’	2.41	0.50
1:B:1287:A:H2	1:B:1648:U:C2	2.29	0.50
1:B:1526:C:H5’	1:B:1527:G:P	2.50	0.50
1:B:1654:A:N6	1:B:2004:G:N2	2.60	0.50
1:B:1695:G:C1’	1:B:1695:G:C8	2.83	0.50
1:B:1934:C:HO5’	1:B:1935:G:C5’	2.24	0.50
1:B:1992:G:H5’	1:B:1993:U:H5’	1.93	0.50
1:B:2029:G:C1’	1:B:2029:G:C8	2.81	0.50
1:B:2112:G:O2’	1:B:2178:C:H3’	2.11	0.50
1:B:2139:U:O2	1:B:2139:U:O4’	2.27	0.50
1:B:2275:C:H4’	1:B:2427:C:O2	2.11	0.50
1:B:2637:U:H1’	1:B:2778:A:OP1	2.11	0.50
1:B:2702:G:C1’	1:B:2702:G:C8	2.81	0.50
1:B:2786:U:O3’	1:B:2813:A:H5’	2.10	0.50
1:B:12:U:P	1:B:586:A:P	3.09	0.50
1:B:12:U:O4	1:B:14:A:C8	2.65	0.50
1:B:76:C:N4	1:B:119:A:C2’	2.75	0.50
1:B:100:U:O4	1:B:118:A:O2’	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:U:O2'	1:B:119:A:C4	2.64	0.50
1:B:120:U:C5'	1:B:120:U:HO5'	2.15	0.50
1:B:196:A:H3'	1:B:198:C:H41	1.76	0.50
1:B:217:A:OP1	1:B:257:C:H4'	2.12	0.50
1:B:255:A:C5	1:B:275:C:O3'	2.64	0.50
1:B:257:C:C2'	1:B:258:G:C5'	2.48	0.50
1:B:449:A:H5'	1:B:452:G:C2	2.43	0.50
1:B:449:A:O5'	1:B:478:A:O3'	2.30	0.50
1:B:500:G:O2'	1:B:505:A:C1'	2.59	0.50
1:B:570:G:P	1:B:570:G:O4'	2.69	0.50
1:B:620:G:H5"	1:B:621:A:H8	1.69	0.50
1:B:684:G:C5'	1:B:776:G:P	3.00	0.50
1:B:684:G:C8	1:B:790:U:C6	3.00	0.50
1:B:714:U:N3	1:B:715:A:N6	2.60	0.50
1:B:764:A:C5'	1:B:764:A:O3'	2.60	0.50
1:B:943:A:H2'	1:B:944:C:O5'	2.11	0.50
1:B:1136:G:H2'	1:B:1137:G:C5'	2.36	0.50
1:B:1212:G:C1'	1:B:1212:G:C8	2.81	0.50
1:B:1425:G:C1'	1:B:1425:G:C8	2.82	0.50
1:B:1546:G:O3'	1:B:1546:G:H3'	1.93	0.50
1:B:1572:A:N6	1:B:1574:C:C6	2.72	0.50
1:B:1582:C:N4	1:B:1632:A:H2'	2.26	0.50
1:B:1674:G:P	1:B:1678:A:N6	2.84	0.50
1:B:1763:G:C1'	1:B:1763:G:C8	2.82	0.50
1:B:1853:A:C8	1:B:1855:U:C5	2.62	0.50
1:B:1853:A:H5'	1:B:1858:A:O5'	2.11	0.50
1:B:1854:A:C6	1:B:1858:A:C4	3.00	0.50
1:B:1883:U:H2'	1:B:1883:U:O2	2.11	0.50
1:B:1905:C:H2'	1:B:1928:A:H3'	1.93	0.50
1:B:1937:A:P	1:B:1938:A:C8	3.04	0.50
1:B:1954:G:H2'	1:B:2058:A:O4'	2.11	0.50
1:B:2075:U:O2'	1:B:2431:U:H3'	2.11	0.50
1:B:2085:U:HO2'	1:B:2086:U:P	2.34	0.50
1:B:2130:U:O2	1:B:2130:U:H2'	2.12	0.50
1:B:2158:A:C1'	1:B:2158:A:C8	2.78	0.50
1:B:2319:G:C8	1:B:2322:A:C5	3.00	0.50
1:B:2402:U:OP1	1:B:2406:A:O2'	2.27	0.50
1:B:2405:G:H2'	1:B:2406:A:OP1	2.12	0.50
1:B:2501:C:C5'	1:B:2574:G:C8	2.92	0.50
1:B:2639:A:H1'	1:B:2732:G:H5'	1.93	0.50
1:B:2845:U:O2'	1:B:2845:U:O2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2849:U:C4'	1:B:2849:U:H5"	2.23	0.50
1:B:15:G:C5'	1:B:1197:G:H2'	2.40	0.50
1:B:76:C:OP2	1:B:119:A:C3'	2.55	0.50
1:B:227:A:H5'	1:B:229:C:N4	2.14	0.50
1:B:228:C:C6	1:B:229:C:C5	3.00	0.50
1:B:267:C:O2'	1:B:269:C:H6	1.95	0.50
1:B:455:C:C3'	1:B:456:C:C5'	2.85	0.50
1:B:457:A:O4'	1:B:657:U:OP1	2.29	0.50
1:B:548:G:C1'	1:B:548:G:C8	2.81	0.50
1:B:647:G:OP2	1:B:653:U:O5'	2.30	0.50
1:B:670:A:O3'	1:B:671:C:OP2	2.30	0.50
1:B:761:A:N3	1:B:761:A:H2'	2.26	0.50
1:B:927:A:O2'	1:B:928:A:N7	2.43	0.50
1:B:931:U:O5'	1:B:934:U:H5	1.94	0.50
1:B:1130:U:H3'	1:B:2749:A:H8	1.77	0.50
1:B:1134:A:OP1	1:B:1143:A:H1'	2.12	0.50
1:B:1198:U:C5'	1:B:1256:G:HO2'	2.25	0.50
1:B:1198:U:O3'	1:B:1257:C:H5'	2.11	0.50
1:B:1451:C:O3'	1:B:1526:C:H6	1.94	0.50
1:B:1452:G:C1'	1:B:1452:G:C8	2.80	0.50
1:B:1640:A:N3	1:B:1640:A:H2'	2.27	0.50
1:B:1674:G:P	1:B:1678:A:C6	3.04	0.50
1:B:1696:G:C1'	1:B:1696:G:C8	2.80	0.50
1:B:1712:U:C2'	1:B:1713:A:C4'	2.88	0.50
1:B:1848:A:H3'	1:B:1849:G:C5'	2.24	0.50
1:B:1885:A:N3	1:B:1885:A:H2'	2.27	0.50
1:B:2086:U:C1'	1:B:2087:G:N7	2.70	0.50
1:B:2162:G:C1'	1:B:2162:G:C8	2.80	0.50
1:B:2165:C:C2	1:B:2166:U:C6	3.00	0.50
1:B:2283:C:C6	1:B:2388:A:OP1	2.65	0.50
1:B:2287:A:H2	1:B:2378:A:C8	2.30	0.50
1:B:2675:A:H1'	1:B:2677:G:N7	2.27	0.50
1:B:2754:U:C5'	1:B:2755:C:C5'	2.90	0.50
1:B:2777:G:N2	1:B:2778:A:O2'	2.45	0.50
1:B:2790:U:C5'	1:B:2891:U:OP2	2.60	0.50
1:B:103:A:H8	1:B:104:A:C5	2.24	0.50
1:B:127:A:C5'	1:B:128:C:C6	2.82	0.50
1:B:215:G:C8	1:B:216:A:C4'	2.94	0.50
1:B:221:A:C8	1:B:222:A:C3'	2.95	0.50
1:B:226:A:N6	1:B:431:U:O3'	2.44	0.50
1:B:240:C:N1	1:B:274:C:OP1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:A:N7	1:B:275:C:H4'	2.27	0.50
1:B:320:A:O2'	1:B:325:G:P	2.70	0.50
1:B:443:A:O2'	1:B:444:C:H5	1.89	0.50
1:B:461:C:N4	1:B:465:G:OP2	2.45	0.50
1:B:674:G:O2'	1:B:675:A:O5'	2.23	0.50
1:B:713:G:C1'	1:B:713:G:C8	2.80	0.50
1:B:764:A:C4'	1:B:765:C:C5'	2.76	0.50
1:B:773:U:C5'	1:B:780:G:N2	2.73	0.50
1:B:804:A:OP1	1:B:807:U:N3	2.40	0.50
1:B:916:G:C1'	1:B:916:G:C8	2.80	0.50
1:B:916:G:O2'	1:B:917:A:H5'	2.11	0.50
1:B:932:U:C2	1:B:932:U:C2'	2.95	0.50
1:B:1027:A:C8	1:B:1028:A:OP2	2.54	0.50
1:B:1223:G:C1'	1:B:1223:G:C8	2.82	0.50
1:B:1434:A:C4'	1:B:1435:G:C8	2.83	0.50
1:B:1464:G:H1'	1:B:1466:U:O2'	2.12	0.50
1:B:1470:A:H5"	1:B:1471:G:O2'	2.12	0.50
1:B:1569:A:OP1	1:B:1570:A:N6	2.45	0.50
1:B:1573:G:C1'	1:B:1573:G:C8	2.80	0.50
1:B:1584:U:O4	1:B:1587:G:C5	2.65	0.50
1:B:1713:A:N1	1:B:1742:U:OP2	2.45	0.50
1:B:1731:G:C1'	1:B:1731:G:C8	2.81	0.50
1:B:1865:U:O3'	1:B:1866:A:OP2	2.30	0.50
1:B:2114:A:N3	1:B:2114:A:H2'	2.26	0.50
1:B:2161:C:H1'	1:B:2165:C:OP2	2.12	0.50
1:B:2226:C:C2	1:B:2227:A:C8	3.00	0.50
1:B:2357:G:OP2	1:B:2357:G:C8	2.55	0.50
1:B:2447:G:H3'	1:B:2551:C:O2'	2.11	0.50
1:B:2465:C:H5"	1:B:2468:A:N7	2.27	0.50
1:B:2769:U:O2	1:B:2770:G:N7	2.45	0.50
1:B:2799:A:H5"	1:B:2800:A:H8	1.77	0.50
1:B:29:U:P	1:B:1250:G:N2	2.84	0.49
1:B:92:U:O2'	1:B:499:U:OP2	2.30	0.49
1:B:99:U:O5'	1:B:102:U:C2	2.65	0.49
1:B:103:A:C4'	1:B:103:A:H5'	2.21	0.49
1:B:176:A:OP1	1:B:178:G:H1'	2.12	0.49
1:B:210:C:O2	1:B:217:A:C2	2.65	0.49
1:B:416:U:O2'	1:B:417:C:O4'	2.30	0.49
1:B:449:A:C5'	1:B:452:G:O4'	2.60	0.49
1:B:452:G:H8	1:B:479:A:O5'	1.80	0.49
1:B:482:A:C5	1:B:513:A:C2	2.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:C:O2'	1:B:505:A:H5'	2.12	0.49
1:B:545:U:C2'	1:B:546:U:H5	2.22	0.49
1:B:615:U:C4	1:B:616:A:N7	2.79	0.49
1:B:685:A:C2'	1:B:686:U:P	3.00	0.49
1:B:764:A:O2'	1:B:765:C:P	2.70	0.49
1:B:802:A:C8	1:B:1252:G:C2	2.99	0.49
1:B:802:A:H8	1:B:1252:G:N1	2.06	0.49
1:B:837:C:C2'	1:B:838:C:H5"	2.42	0.49
1:B:982:C:H3'	1:B:983:A:H5'	1.93	0.49
1:B:1124:G:O6	1:B:1126:A:OP2	2.30	0.49
1:B:1299:G:C2	1:B:1300:G:H3'	2.47	0.49
1:B:1328:A:C1'	1:B:1328:A:C4	2.81	0.49
1:B:1427:A:O5'	1:B:1572:A:C2	2.62	0.49
1:B:1450:G:O2'	1:B:1468:U:H5	1.82	0.49
1:B:1568:G:H2'	1:B:1570:A:N6	2.26	0.49
1:B:1568:G:C6	1:B:1573:G:C2	3.00	0.49
1:B:1609:A:P	1:B:1622:G:OP1	2.70	0.49
1:B:1672:A:N6	1:B:1673:G:H21	2.01	0.49
1:B:1675:C:C3'	1:B:1678:A:O5'	2.57	0.49
1:B:1853:A:C3'	1:B:1888:G:C5'	2.88	0.49
1:B:1854:A:N7	1:B:1858:A:H5"	2.26	0.49
1:B:1971:U:HO2'	1:B:1972:G:P	2.35	0.49
1:B:2061:G:H5'	1:B:2554:U:O2	2.11	0.49
1:B:2067:G:O5'	1:B:2439:A:O5'	2.29	0.49
1:B:2067:G:P	1:B:2439:A:C5'	3.01	0.49
1:B:2163:A:OP2	1:B:2168:G:N7	2.44	0.49
1:B:2165:C:H4'	1:B:2168:G:C2	2.45	0.49
1:B:2265:U:H5"	1:B:2266:A:OP2	2.11	0.49
1:B:2275:C:H2'	1:B:2276:G:H8	1.75	0.49
1:B:2283:C:O2	1:B:2283:C:H2'	2.12	0.49
1:B:2287:A:C4'	1:B:2288:A:H8	2.20	0.49
1:B:2488:G:OP1	1:B:2575:C:C4	2.65	0.49
1:B:2497:A:O2'	1:B:2665:A:H1'	2.08	0.49
1:B:2607:G:C1'	1:B:2607:G:C8	2.83	0.49
1:B:2608:G:C1'	1:B:2608:G:C8	2.81	0.49
1:B:2796:U:C2'	1:B:2797:U:O5'	2.60	0.49
1:B:2846:G:C1'	1:B:2846:G:C4	2.85	0.49
1:B:2850:A:P	1:B:2851:A:OP1	2.70	0.49
1:B:2859:G:C1'	1:B:2859:G:C8	2.82	0.49
1:B:52:A:C4'	1:B:52:A:H5"	2.21	0.49
1:B:215:G:C5'	1:B:219:A:P	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:A:C2	1:B:222:A:H2	2.28	0.49
1:B:229:C:C2'	1:B:229:C:O2	2.59	0.49
1:B:241:A:H2'	1:B:242:G:OP2	2.12	0.49
1:B:274:C:C5'	1:B:275:C:OP2	2.59	0.49
1:B:319:G:C4'	1:B:320:A:C5'	2.90	0.49
1:B:435:C:O2'	1:B:436:C:C6	2.65	0.49
1:B:459:U:H5	1:B:464:U:H2'	1.76	0.49
1:B:500:G:H5"	1:B:503:A:P	2.52	0.49
1:B:821:A:H4'	1:B:822:G:N7	2.25	0.49
1:B:1133:A:C1'	1:B:1142:A:C2	2.92	0.49
1:B:1327:A:C4'	1:B:1327:A:H5'	2.20	0.49
1:B:1341:G:C1'	1:B:1341:G:C8	2.80	0.49
1:B:1357:C:C2'	1:B:1358:G:O5'	2.60	0.49
1:B:1365:A:OP1	1:B:1366:A:C8	2.65	0.49
1:B:1574:C:C4'	1:B:1631:G:OP1	2.60	0.49
1:B:1605:C:H6	1:B:1663:G:O3'	1.94	0.49
1:B:1675:C:OP1	1:B:1678:A:C5'	2.51	0.49
1:B:1689:A:N3	1:B:1692:U:H5	2.07	0.49
1:B:1715:G:P	1:B:1738:G:N7	2.85	0.49
1:B:1855:U:C6	1:B:1886:U:P	3.05	0.49
1:B:2379:G:HO2'	1:B:2393:U:C1'	2.15	0.49
1:B:2442:C:H3'	1:B:2443:C:C6	2.47	0.49
1:B:2685:G:N7	1:B:2687:U:H5"	2.27	0.49
1:B:2834:G:C2'	1:B:2879:A:N6	2.64	0.49
1:B:2890:G:C1'	1:B:2890:G:C8	2.81	0.49
1:B:15:G:C5'	1:B:15:G:O4'	2.56	0.49
1:B:52:A:N6	1:B:73:A:H5'	2.27	0.49
1:B:71:A:H4'	1:B:71:A:H5'	1.91	0.49
1:B:71:A:H5'	1:B:114:U:P	2.52	0.49
1:B:84:A:C8	1:B:85:G:C5	3.01	0.49
1:B:99:U:O5'	1:B:102:U:N1	2.45	0.49
1:B:100:U:H1'	1:B:113:U:C5'	2.28	0.49
1:B:222:A:OP2	1:B:223:A:C6	2.64	0.49
1:B:255:A:OP1	1:B:255:A:C2	2.65	0.49
1:B:329:G:C1'	1:B:329:G:C8	2.80	0.49
1:B:449:A:C5'	1:B:478:A:OP2	2.61	0.49
1:B:669:G:C5'	1:B:669:G:HO5'	2.14	0.49
1:B:781:A:N7	1:B:785:G:H3'	2.26	0.49
1:B:870:U:O2'	1:B:871:U:O5'	2.30	0.49
1:B:933:A:HO2'	1:B:934:U:H5	1.39	0.49
1:B:983:A:C8	1:B:984:A:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1018:U:H4'	1:B:1129:A:OP1	2.12	0.49
1:B:1116:G:C4'	1:B:2751:G:OP1	2.50	0.49
1:B:1432:G:OP2	1:B:1433:A:C5	2.66	0.49
1:B:1514:G:C1'	1:B:1514:G:C8	2.82	0.49
1:B:1582:C:C4	1:B:1633:G:C8	3.00	0.49
1:B:1605:C:H6	1:B:1665:A:C5'	2.24	0.49
1:B:1687:G:C1'	1:B:1687:G:C8	2.81	0.49
1:B:1720:U:C2'	1:B:1721:G:O5'	2.59	0.49
1:B:1727:C:H3'	1:B:1728:C:H5'	1.94	0.49
1:B:1754:A:C5	1:B:1990:C:OP1	2.64	0.49
1:B:1818:U:O3'	1:B:1820:U:OP1	2.30	0.49
1:B:1942:C:O3'	1:B:1942:C:C2'	2.51	0.49
1:B:1971:U:N3	1:B:2554:U:C6	2.81	0.49
1:B:2060:A:C1'	1:B:2060:A:C4	2.83	0.49
1:B:2276:G:OP2	1:B:2426:A:O2'	2.19	0.49
1:B:2281:A:H5"	1:B:2282:G:H5'	1.92	0.49
1:B:2448:A:C2	1:B:2449:5MU:C6	3.01	0.49
1:B:2594:C:H5"	1:B:2595:G:OP2	2.12	0.49
1:B:2690:U:C5'	1:B:2727:A:O4'	2.60	0.49
1:B:141:G:C2'	1:B:1331:G:HO2'	2.14	0.49
1:B:221:A:N7	1:B:223:A:N9	2.60	0.49
1:B:330:A:C5'	1:B:331:C:OP1	2.59	0.49
1:B:487:C:O2	1:B:505:A:N1	2.45	0.49
1:B:571:U:C6	1:B:573:U:OP1	2.65	0.49
1:B:844:A:O5'	1:B:845:A:C5'	2.54	0.49
1:B:885:C:H3'	1:B:886:A:C5'	2.41	0.49
1:B:931:U:H5'	1:B:934:U:C5	2.47	0.49
1:B:1050:A:P	1:B:1051:G:P	3.11	0.49
1:B:1133:A:N6	1:B:2463:C:H5"	2.25	0.49
1:B:1203:U:O2	1:B:1240:U:C6	2.65	0.49
1:B:1427:A:P	1:B:1572:A:N3	2.85	0.49
1:B:1451:C:O3'	1:B:1526:C:C4'	2.60	0.49
1:B:1457:U:C2'	1:B:1458:U:C5'	2.72	0.49
1:B:1470:A:H5'	1:B:1523:U:H1'	1.94	0.49
1:B:1673:G:O4'	1:B:1680:U:C4	2.66	0.49
1:B:1932:A:H3'	1:B:1941:C:C2	2.45	0.49
1:B:1935:G:C2	1:B:1940:U:H5'	2.42	0.49
1:B:2015:A:H2'	1:B:2018:G:N1	2.26	0.49
1:B:2111:U:O2'	1:B:2178:C:N4	2.45	0.49
1:B:2112:G:HO3'	1:B:2113:U:P	2.28	0.49
1:B:2118:U:OP1	1:B:2172:U:O4	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2344:U:C5'	1:B:2372:U:O4	2.60	0.49
1:B:2689:U:OP1	1:B:2690:U:OP2	2.29	0.49
1:B:2733:A:N7	1:B:2778:A:C8	2.80	0.49
1:B:2867:G:C8	1:B:2868:A:N1	2.77	0.49
1:B:10:A:C8	1:B:812:C:C2	3.01	0.49
1:B:52:A:C5	1:B:118:A:H5'	2.45	0.49
1:B:70:G:H3'	1:B:71:A:P	2.52	0.49
1:B:71:A:OP2	1:B:114:U:H5'	2.12	0.49
1:B:197:A:H5"	1:B:198:C:P	2.52	0.49
1:B:411:G:H8	1:B:2407:A:N6	2.05	0.49
1:B:465:G:N3	1:B:479:A:H2	2.09	0.49
1:B:537:G:OP2	1:B:968:C:O2'	2.25	0.49
1:B:566:U:C2	1:B:566:U:C2'	2.95	0.49
1:B:619:G:C1'	1:B:621:A:N3	2.66	0.49
1:B:734:A:H1'	1:B:760:G:H21	1.77	0.49
1:B:747:5MU:P	1:B:748:G:C3'	3.01	0.49
1:B:764:A:O3'	1:B:764:A:C2'	2.58	0.49
1:B:1044:C:O2	1:B:1044:C:C2'	2.55	0.49
1:B:1413:A:OP2	1:B:1584:U:OP2	2.30	0.49
1:B:1449:G:O6	1:B:1544:A:C2	2.65	0.49
1:B:1527:G:O2'	1:B:1528:A:P	2.71	0.49
1:B:1571:A:C2	1:B:1572:A:O3'	2.65	0.49
1:B:1694:C:C4	1:B:2704:C:N4	2.78	0.49
1:B:1696:G:H2'	1:B:2703:C:O5'	2.11	0.49
1:B:1802:A:OP1	1:B:1803:A:OP1	2.30	0.49
1:B:1936:A:C5'	1:B:1939:5MU:OP1	2.61	0.49
1:B:1940:U:C2	1:B:2062:A:C8	3.00	0.49
1:B:1941:C:H4'	1:B:1972:G:C1'	2.42	0.49
1:B:1992:G:C1'	1:B:1993:U:C6	2.95	0.49
1:B:2061:G:H21	1:B:2553:G:C3'	2.24	0.49
1:B:2345:G:O5'	1:B:2381:A:N7	2.46	0.49
1:B:2392:A:H3'	1:B:2393:U:C6	2.47	0.49
1:B:2718:G:H5"	1:B:2719:G:P	2.47	0.49
1:B:2805:C:O3'	1:B:2806:C:C4'	2.56	0.49
1:B:2884:U:C5	1:B:2887:A:C8	2.99	0.49
1:B:1:G:N7	1:B:2904:U:C2	2.81	0.49
1:B:28:A:C8	1:B:1252:G:C1'	2.95	0.49
1:B:52:A:C5'	1:B:176:A:C5	2.91	0.49
1:B:78:U:OP2	1:B:99:U:C5'	2.60	0.49
1:B:100:U:H4'	1:B:120:U:P	2.52	0.49
1:B:211:C:O2'	1:B:213:A:H1'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:A:O5'	1:B:277:G:C3'	2.61	0.49
1:B:293:U:C4'	1:B:294:A:OP2	2.50	0.49
1:B:403:U:C2'	1:B:403:U:O2	2.60	0.49
1:B:449:A:OP2	1:B:478:A:H5"	2.13	0.49
1:B:453:A:OP1	1:B:478:A:N3	2.46	0.49
1:B:501:A:C2'	1:B:506:G:OP1	2.58	0.49
1:B:566:U:OP1	1:B:1189:A:C2	2.66	0.49
1:B:684:G:C1'	1:B:684:G:C8	2.79	0.49
1:B:739:A:H2'	1:B:740:C:H5"	1.94	0.49
1:B:803:U:OP1	1:B:1253:A:O2'	2.25	0.49
1:B:1197:G:C2'	1:B:1256:G:H1'	2.41	0.49
1:B:1273:U:N3	1:B:1275:A:C4	2.76	0.49
1:B:1418:G:H2'	1:B:1419:A:O5'	2.12	0.49
1:B:1456:G:C1'	1:B:1456:G:C8	2.80	0.49
1:B:1814:G:C1'	1:B:1814:G:C8	2.82	0.49
1:B:2165:C:C5'	1:B:2168:G:N2	2.76	0.49
1:B:2366:A:H5"	1:B:2367:G:H5"	1.91	0.49
1:B:2556:C:N1	1:B:2558:C:OP1	2.46	0.49
1:B:73:A:H3'	1:B:113:U:O2'	2.04	0.49
1:B:73:A:C3'	1:B:113:U:N1	2.75	0.49
1:B:89:A:H5"	1:B:94:A:N6	2.24	0.49
1:B:183:C:H5'	1:B:207:A:C2	2.43	0.49
1:B:225:C:H5"	1:B:226:A:P	2.52	0.49
1:B:239:C:N4	1:B:276:U:H3'	2.28	0.49
1:B:278:A:C2'	1:B:279:A:OP1	2.61	0.49
1:B:481:G:C1'	1:B:481:G:C8	2.80	0.49
1:B:487:C:OP1	1:B:509:C:H5	1.96	0.49
1:B:802:A:H2'	1:B:1254:A:O4'	2.13	0.49
1:B:930:G:H5"	1:B:984:A:OP1	2.13	0.49
1:B:1040:A:OP2	1:B:1040:A:C8	2.65	0.49
1:B:1275:A:H2'	1:B:1275:A:N3	2.27	0.49
1:B:1283:G:O2'	1:B:2012:G:O3'	2.31	0.49
1:B:1568:G:H4'	1:B:1569:A:O2'	2.13	0.49
1:B:1569:A:O2'	1:B:1570:A:N7	2.43	0.49
1:B:1696:G:C4'	1:B:2703:C:C6	2.96	0.49
1:B:1727:C:C3'	1:B:1728:C:C5'	2.90	0.49
1:B:1815:A:C1'	1:B:1817:G:N2	2.76	0.49
1:B:1852:U:C1'	1:B:1885:A:H8	2.25	0.49
1:B:1855:U:N1	1:B:1886:U:OP1	2.46	0.49
1:B:1942:C:P	1:B:2441:U:O3'	2.71	0.49
1:B:2212:A:H2'	1:B:2213:U:O5'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2252:G:C1'	1:B:2252:G:C8	2.80	0.49
1:B:2359:C:OP2	1:B:2360:G:H5'	2.11	0.49
1:B:2685:G:C1'	1:B:2722:G:O2'	2.59	0.49
1:B:2879:A:P	1:B:2880:C:OP1	2.71	0.49
1:B:72:U:C2	1:B:114:U:H5"	2.48	0.49
1:B:98:G:C5'	1:B:103:A:C2	2.93	0.49
1:B:112:U:O2'	1:B:119:A:C2'	2.60	0.49
1:B:113:U:C2'	1:B:113:U:O3'	2.52	0.49
1:B:459:U:C5	1:B:464:U:C2'	2.96	0.49
1:B:476:G:C5	1:B:477:A:H8	2.31	0.49
1:B:532:A:C3'	1:B:533:G:C5'	2.47	0.49
1:B:818:G:C1'	1:B:818:G:C8	2.82	0.49
1:B:842:U:OP2	1:B:932:U:C5	2.66	0.49
1:B:858:G:P	1:B:859:G:H5'	2.53	0.49
1:B:914:G:N2	1:B:916:G:C4	2.81	0.49
1:B:1129:A:H4'	1:B:2752:C:OP2	2.12	0.49
1:B:1134:A:O3'	1:B:1140:C:O3'	2.30	0.49
1:B:1312:U:P	1:B:1641:A:C2	3.06	0.49
1:B:1371:G:C1'	1:B:1371:G:C8	2.81	0.49
1:B:1416:G:H5"	1:B:1637:A:O5'	2.13	0.49
1:B:1453:A:C5'	1:B:1527:G:H5"	2.38	0.49
1:B:1470:A:H3'	1:B:1471:G:O3'	2.13	0.49
1:B:1568:G:H2'	1:B:1573:G:O4'	2.13	0.49
1:B:1584:U:O2	1:B:1635:A:C5'	2.61	0.49
1:B:1666:G:OP2	1:B:1758:U:H5	1.94	0.49
1:B:1780:A:C4	1:B:1783:A:N6	2.70	0.49
1:B:1790:C:C4	1:B:1830:C:OP2	2.66	0.49
1:B:1811:G:H2'	1:B:1812:U:C6	2.48	0.49
1:B:1850:G:H4'	1:B:1851:U:OP2	2.11	0.49
1:B:1932:A:H4'	1:B:1934:C:H5"	1.94	0.49
1:B:1933:G:O3'	1:B:1935:G:C4'	2.61	0.49
1:B:1936:A:H5'	1:B:1941:C:N4	2.28	0.49
1:B:1937:A:O5'	1:B:1938:A:P	2.71	0.49
1:B:2391:G:O2'	1:B:2393:U:O4	2.31	0.49
1:B:2451:A:O4'	1:B:2563:U:O4	2.31	0.49
1:B:2565:A:O3'	1:B:2566:A:O4'	2.30	0.49
1:B:2607:G:H4'	1:B:2608:G:N7	2.27	0.49
1:B:2644:G:H2'	1:B:2644:G:N3	2.28	0.49
1:B:2683:C:C4	1:B:2722:G:N7	2.81	0.49
1:B:2718:G:H3'	1:B:2720:U:C5	2.47	0.49
1:B:2720:U:HO2'	1:B:2721:A:H4'	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2754:U:H5'	1:B:2755:C:H5"	1.94	0.49
1:B:2833:U:H4'	1:B:2834:G:OP2	2.13	0.49
1:B:2871:U:C5'	1:B:2872:A:N9	2.61	0.49
1:B:60:G:HO3'	1:B:61:C:H5'	1.76	0.49
1:B:69:C:C5'	1:B:85:G:C4'	2.75	0.49
1:B:71:A:O5'	1:B:105:C:C5'	2.58	0.49
1:B:91:A:C3'	1:B:498:G:C5	2.96	0.49
1:B:143:C:P	1:B:1328:A:C4	3.06	0.49
1:B:202:U:O2'	1:B:204:A:C4	2.66	0.49
1:B:221:A:N7	1:B:223:A:H1'	2.28	0.49
1:B:221:A:C3'	1:B:277:G:O2'	2.60	0.49
1:B:223:A:OP2	1:B:261:G:N7	2.46	0.49
1:B:263:G:N7	1:B:361:G:O3'	2.45	0.49
1:B:265:A:N9	1:B:369:U:C1'	2.68	0.49
1:B:300:A:C6	1:B:481:G:O6	2.66	0.49
1:B:390:U:C4'	1:B:405:U:OP2	2.61	0.49
1:B:528:A:H62	1:B:564:C:N4	2.07	0.49
1:B:598:U:OP1	1:B:936:A:O2'	2.27	0.49
1:B:655:A:H3'	1:B:656:G:C5'	2.43	0.49
1:B:674:G:C5'	1:B:674:G:O4'	2.54	0.49
1:B:703:U:C2	1:B:704:G:N2	2.81	0.49
1:B:906:U:O3'	1:B:906:U:O5'	2.31	0.49
1:B:906:U:O3'	1:B:906:U:P	2.71	0.49
1:B:1203:U:O4	1:B:1241:A:OP1	2.31	0.49
1:B:1232:G:OP2	1:B:1236:G:C8	2.48	0.49
1:B:1253:A:H4'	1:B:1254:A:C8	2.47	0.49
1:B:1412:U:O4	1:B:1585:C:O2'	2.30	0.49
1:B:1418:G:C5'	1:B:1631:G:O6	2.57	0.49
1:B:1448:G:H4'	1:B:1587:G:H1'	1.95	0.49
1:B:1561:C:H2'	1:B:1562:U:C6	2.48	0.49
1:B:1569:A:H1'	1:B:1572:A:OP2	2.13	0.49
1:B:1663:G:P	1:B:1664:A:C5'	3.01	0.49
1:B:1699:G:C1'	1:B:1699:G:C8	2.80	0.49
1:B:1847:A:O5'	1:B:1848:A:OP1	2.30	0.49
1:B:1905:C:C2'	1:B:1928:A:C4'	2.89	0.49
1:B:1936:A:H5"	1:B:1939:5MU:OP1	2.13	0.49
1:B:1953:A:N9	1:B:1955:U:O2	2.46	0.49
1:B:2114:A:H8	1:B:2118:U:C2	2.29	0.49
1:B:2438:U:C2'	1:B:2439:A:H5"	2.29	0.49
1:B:2733:A:N7	1:B:2778:A:H2'	2.27	0.49
1:B:2741:A:C8	1:B:2741:A:O2'	2.62	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2769:U:H2'	1:B:2770:G:C8	2.48	0.49
1:B:2808:G:OP1	1:B:2890:G:N2	2.46	0.49
1:B:72:U:OP1	1:B:114:U:OP2	2.30	0.49
1:B:113:U:O4	1:B:115:C:C5	2.66	0.49
1:B:199:A:N7	1:B:200:U:N1	2.60	0.49
1:B:242:G:C5'	1:B:254:G:N7	2.76	0.49
1:B:294:A:O2'	1:B:327:G:C4	2.63	0.49
1:B:323:C:HO2'	1:B:324:A:P	2.36	0.49
1:B:354:A:H2'	1:B:355:U:C6	2.48	0.49
1:B:362:A:C5'	1:B:428:A:C4'	2.89	0.49
1:B:376:G:O3'	1:B:403:U:C4	2.66	0.49
1:B:499:U:C2	1:B:499:U:C2'	2.96	0.49
1:B:669:G:O3'	1:B:669:G:C2'	2.54	0.49
1:B:790:U:O2	1:B:790:U:C2'	2.61	0.49
1:B:831:G:H2'	1:B:832:U:C6	2.48	0.49
1:B:845:A:N6	1:B:849:A:N7	2.51	0.49
1:B:876:C:C4	1:B:900:A:H5"	2.47	0.49
1:B:914:G:N3	1:B:916:G:C2'	2.76	0.49
1:B:962:G:H2'	1:B:963:U:C6	2.48	0.49
1:B:989:G:C1'	1:B:989:G:C8	2.80	0.49
1:B:1024:G:H1'	1:B:2469:A:C4	2.48	0.49
1:B:1025:G:N2	1:B:1026:G:O4'	2.46	0.49
1:B:1047:G:N7	1:B:1052:C:O5'	2.46	0.49
1:B:1180:U:H2'	1:B:1181:U:C6	2.48	0.49
1:B:1218:G:H2'	1:B:1219:U:C6	2.48	0.49
1:B:1286:A:H8	1:B:1286:A:P	2.36	0.49
1:B:1425:G:C3'	1:B:1567:G:O5'	2.61	0.49
1:B:1453:A:C2'	1:B:1525:A:H8	2.22	0.49
1:B:1459:G:HO2'	1:B:1460:U:H5'	1.71	0.49
1:B:1469:A:C4'	1:B:1528:A:N6	2.71	0.49
1:B:1523:U:O2	1:B:1523:U:C2'	2.58	0.49
1:B:1701:A:C2'	1:B:1702:G:H5'	2.42	0.49
1:B:1778:U:O4'	1:B:2059:A:N6	2.46	0.49
1:B:1782:U:C3'	1:B:1783:A:C8	2.95	0.49
1:B:1905:C:C4'	1:B:1927:A:C5'	2.75	0.49
1:B:1916:A:C5	1:B:1917:PSU:C2	3.00	0.49
1:B:1922:G:H2'	1:B:1923:U:C6	2.48	0.49
1:B:2125:G:C1'	1:B:2125:G:C8	2.82	0.49
1:B:2126:A:H5'	1:B:2167:U:C2	2.48	0.49
1:B:2126:A:C3'	1:B:2127:G:H5'	2.41	0.49
1:B:2187:U:H2'	1:B:2188:U:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2218:G:H2'	1:B:2219:U:C6	2.48	0.49
1:B:2261:C:H2'	1:B:2262:U:C6	2.48	0.49
1:B:2265:U:C2	1:B:2267:A:H4'	2.47	0.49
1:B:2308:G:OP2	1:B:2308:G:C8	2.66	0.49
1:B:2374:C:C4'	1:B:2413:G:C5'	2.89	0.49
1:B:2376:A:H2'	1:B:2376:A:N3	2.28	0.49
1:B:2401:U:H2'	1:B:2402:U:C6	2.48	0.49
1:B:2451:A:N1	1:B:2563:U:O5'	2.45	0.49
1:B:23:G:OP2	1:B:511:U:O3'	2.31	0.48
1:B:59:U:HO3'	1:B:60:G:P	2.26	0.48
1:B:93:G:O5'	1:B:498:G:O3'	2.30	0.48
1:B:227:A:C4	1:B:228:C:C5	3.01	0.48
1:B:294:A:N7	1:B:337:C:C1'	2.75	0.48
1:B:323:C:HO3'	1:B:324:A:P	2.32	0.48
1:B:436:C:H2'	1:B:437:U:C6	2.48	0.48
1:B:530:G:C5'	1:B:949:G:H5'	2.43	0.48
1:B:601:C:O4'	1:B:604:G:H5'	2.12	0.48
1:B:608:A:C1'	1:B:608:A:C8	2.80	0.48
1:B:664:G:H2'	1:B:665:U:C6	2.48	0.48
1:B:674:G:H1'	1:B:675:A:C8	2.46	0.48
1:B:685:A:OP1	1:B:775:G:C3'	2.60	0.48
1:B:709:U:H2'	1:B:710:U:C6	2.48	0.48
1:B:743:A:H2'	1:B:744:U:C6	2.48	0.48
1:B:931:U:P	1:B:934:U:C5	3.05	0.48
1:B:961:C:H5"	1:B:962:G:C1'	2.43	0.48
1:B:1017:G:OP1	1:B:1130:U:O2'	2.28	0.48
1:B:1023:U:C2'	1:B:2465:C:C4	2.96	0.48
1:B:1023:U:C5	1:B:2484:G:C6	3.00	0.48
1:B:1034:G:H2'	1:B:1035:U:C6	2.48	0.48
1:B:1040:A:C2'	1:B:1041:G:C8	2.96	0.48
1:B:1198:U:O3'	1:B:1257:C:H5"	2.12	0.48
1:B:1241:A:O3'	1:B:1243:C:H1'	2.13	0.48
1:B:1272:A:O2'	1:B:1289:C:OP1	2.19	0.48
1:B:1405:U:H2'	1:B:1406:U:C6	2.48	0.48
1:B:1520:U:O2'	1:B:1521:G:H8	1.96	0.48
1:B:1577:C:H2'	1:B:1578:U:C6	2.48	0.48
1:B:1714:U:H2'	1:B:1737:G:N1	2.28	0.48
1:B:1823:G:OP1	1:B:1831:G:H5"	2.13	0.48
1:B:1824:G:H2'	1:B:1825:U:C6	2.48	0.48
1:B:1938:A:C1'	1:B:1938:A:C8	2.82	0.48
1:B:2103:C:H2'	1:B:2105:U:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2319:G:H2'	1:B:2322:A:N9	2.28	0.48
1:B:2345:G:O2'	1:B:2382:G:H1'	2.12	0.48
1:B:2360:G:O2'	1:B:2361:G:P	2.70	0.48
1:B:2407:A:H2'	1:B:2408:U:C6	2.48	0.48
1:B:2450:A:H1'	1:B:2566:A:N7	2.27	0.48
1:B:2450:A:O2'	1:B:2566:A:N7	2.39	0.48
1:B:2471:A:C4'	1:B:2472:G:OP2	2.61	0.48
1:B:2763:G:C4'	1:B:2765:A:N6	2.49	0.48
1:B:2795:C:H2'	1:B:2796:U:C6	2.48	0.48
1:B:2796:U:H2'	1:B:2797:U:O5'	2.13	0.48
1:B:2896:C:H2'	1:B:2897:U:C6	2.48	0.48
1:B:64:A:H1'	1:B:65:U:H5	1.77	0.48
1:B:183:C:H4'	1:B:207:A:C2	2.48	0.48
1:B:221:A:N6	1:B:279:A:H5'	2.26	0.48
1:B:240:C:P	1:B:275:C:O3'	2.71	0.48
1:B:376:G:C1'	1:B:401:A:O2'	2.60	0.48
1:B:398:C:H2'	1:B:399:U:C6	2.49	0.48
1:B:590:A:H2'	1:B:591:U:C6	2.49	0.48
1:B:606:U:H2'	1:B:607:U:C6	2.48	0.48
1:B:745:7MG:H3'	1:B:748:G:H2'	1.95	0.48
1:B:747:5MU:H5'	1:B:753:A:C2	2.48	0.48
1:B:766:U:H2'	1:B:767:U:C6	2.48	0.48
1:B:781:A:H8	1:B:785:G:C3'	2.20	0.48
1:B:825:A:H2'	1:B:826:U:C6	2.48	0.48
1:B:838:C:H2'	1:B:839:U:C6	2.49	0.48
1:B:859:G:H4'	1:B:860:U:O5'	2.13	0.48
1:B:1026:G:H2'	1:B:1026:G:N3	2.27	0.48
1:B:1040:A:H2'	1:B:1041:G:C8	2.48	0.48
1:B:1125:G:N3	1:B:1125:G:H2'	2.28	0.48
1:B:1130:U:C4	1:B:2754:U:H2'	2.46	0.48
1:B:1142:A:OP1	1:B:1142:A:H2	1.88	0.48
1:B:1163:G:C2	1:B:1164:C:N4	2.81	0.48
1:B:1198:U:H2'	1:B:1199:U:C6	2.49	0.48
1:B:1202:G:C1'	1:B:1203:U:C5	2.87	0.48
1:B:1288:G:N2	1:B:1648:U:C6	2.82	0.48
1:B:1299:G:N2	1:B:1300:G:H3'	2.28	0.48
1:B:1428:C:C2'	1:B:1429:G:C5'	2.89	0.48
1:B:1568:G:H4'	1:B:1568:G:H5'	1.85	0.48
1:B:1673:G:C5'	1:B:1680:U:N3	2.75	0.48
1:B:1674:G:C4'	1:B:1678:A:N1	2.76	0.48
1:B:1689:A:N6	1:B:1693:U:OP2	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1723:G:C1'	1:B:1723:G:C8	2.82	0.48
1:B:1728:C:N4	1:B:1732:C:N3	2.61	0.48
1:B:1729:U:C4	1:B:1730:C:N4	2.81	0.48
1:B:1751:U:C5'	1:B:1752:C:H4'	2.43	0.48
1:B:1847:A:HO2'	1:B:1848:A:H2	1.61	0.48
1:B:1938:A:C2	1:B:2064:C:OP1	2.65	0.48
1:B:2098:U:H2'	1:B:2099:U:C6	2.48	0.48
1:B:2194:U:H2'	1:B:2195:U:C6	2.48	0.48
1:B:2513:A:H2'	1:B:2514:U:C6	2.48	0.48
1:B:2575:C:C3'	1:B:2576:G:C5'	2.85	0.48
1:B:2579:C:H2'	1:B:2580:U:C6	2.48	0.48
1:B:2671:G:H2'	1:B:2672:U:C6	2.49	0.48
1:B:2682:A:C6	1:B:2720:U:C4	3.01	0.48
1:B:2706:A:H2'	1:B:2707:U:C6	2.48	0.48
1:B:2718:G:H2'	1:B:2720:U:N3	2.28	0.48
1:B:2732:G:C8	1:B:2771:C:H5	2.30	0.48
1:B:2782:G:H2'	1:B:2783:U:C6	2.48	0.48
1:B:2791:G:OP2	1:B:2891:U:C3'	2.60	0.48
1:B:2808:G:O2'	1:B:2809:A:C8	2.66	0.48
1:B:2824:C:C5'	1:B:2825:G:C8	2.96	0.48
1:B:17:G:H2'	1:B:18:U:C6	2.48	0.48
1:B:34:U:O3'	1:B:678:C:OP1	2.32	0.48
1:B:77:G:H2'	1:B:78:U:C6	2.48	0.48
1:B:132:G:H2'	1:B:133:U:C6	2.48	0.48
1:B:170:U:H2'	1:B:171:U:C6	2.49	0.48
1:B:180:G:C5	1:B:198:C:C5'	2.90	0.48
1:B:295:G:H2'	1:B:296:U:C6	2.48	0.48
1:B:316:C:O3'	1:B:317:G:O5'	2.18	0.48
1:B:348:A:H2'	1:B:349:U:C6	2.49	0.48
1:B:362:A:C6	1:B:427:U:O2	2.67	0.48
1:B:440:C:H2'	1:B:441:U:C6	2.48	0.48
1:B:446:G:O3'	1:B:447:A:H8	1.96	0.48
1:B:507:A:N1	1:B:1246:A:C5	2.78	0.48
1:B:670:A:C3'	1:B:670:A:HO3'	2.11	0.48
1:B:698:C:OP1	1:B:1964:G:C8	2.67	0.48
1:B:753:A:H2'	1:B:754:U:C6	2.49	0.48
1:B:768:G:H2'	1:B:769:U:C6	2.48	0.48
1:B:841:G:H2'	1:B:842:U:C6	2.49	0.48
1:B:861:A:C1'	1:B:863:A:H2	2.26	0.48
1:B:906:U:O2	1:B:906:U:C2'	2.59	0.48
1:B:1117:C:O5'	1:B:2750:A:C2	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1158:C:H2'	1:B:1159:U:C6	2.49	0.48
1:B:1197:G:C1'	1:B:1256:G:H1'	2.43	0.48
1:B:1317:G:H2'	1:B:1318:U:C6	2.49	0.48
1:B:1414:C:H2'	1:B:1415:U:C6	2.49	0.48
1:B:1441:G:H2'	1:B:1442:U:C6	2.49	0.48
1:B:1538:G:H2'	1:B:1539:U:C6	2.48	0.48
1:B:1623:G:H2'	1:B:1624:U:C6	2.48	0.48
1:B:1755:A:C4	1:B:1765:U:C4'	2.92	0.48
1:B:1840:G:H2'	1:B:1841:U:C6	2.48	0.48
1:B:1852:U:C2	1:B:1885:A:N7	2.82	0.48
1:B:1852:U:OP1	1:B:1856:U:C4	2.66	0.48
1:B:1853:A:N7	1:B:1887:C:OP1	2.45	0.48
1:B:1856:U:H5"	1:B:1886:U:C4'	2.43	0.48
1:B:1871:A:N3	1:B:1871:A:H2'	2.28	0.48
1:B:1931:U:H5'	1:B:1935:G:C5'	2.41	0.48
1:B:1944:U:O2'	1:B:1945:G:C5'	2.48	0.48
1:B:2025:C:H2'	1:B:2026:U:C6	2.49	0.48
1:B:2051:A:O5'	1:B:2052:A:OP1	2.31	0.48
1:B:2059:A:H2'	1:B:2557:G:O2'	2.13	0.48
1:B:2126:A:H4'	1:B:2127:G:H5'	1.93	0.48
1:B:2148:G:H2'	1:B:2149:U:C6	2.48	0.48
1:B:2243:U:H2'	1:B:2244:U:H5"	1.95	0.48
1:B:2391:G:C1'	1:B:2391:G:C8	2.80	0.48
1:B:2403:C:H2'	1:B:2404:U:C6	2.49	0.48
1:B:2450:A:H5"	1:B:2560:A:O3'	2.13	0.48
1:B:2567:G:H2'	1:B:2568:U:C6	2.49	0.48
1:B:2621:G:H2'	1:B:2622:U:C6	2.48	0.48
1:B:2745:C:H2'	1:B:2746:U:C6	2.49	0.48
1:B:2751:G:C4'	1:B:2751:G:H5"	2.22	0.48
1:B:2870:C:O2'	1:B:2872:A:O3'	2.31	0.48
1:B:32:C:N4	1:B:33:C:H5	2.10	0.48
1:B:63:A:N3	1:B:86:G:C5'	2.76	0.48
1:B:136:G:H2'	1:B:137:U:C6	2.48	0.48
1:B:220:G:O3'	1:B:277:G:C3'	2.59	0.48
1:B:221:A:O5'	1:B:278:A:O5'	2.31	0.48
1:B:240:C:O3'	1:B:275:C:C4'	2.61	0.48
1:B:292:U:H2'	1:B:293:U:C6	2.49	0.48
1:B:303:G:H2'	1:B:304:U:C6	2.48	0.48
1:B:305:C:H2'	1:B:306:U:C6	2.49	0.48
1:B:364:C:H2'	1:B:365:U:C6	2.48	0.48
1:B:418:C:H2'	1:B:419:U:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:C:H2'	1:B:434:U:C6	2.48	0.48
1:B:462:C:N4	1:B:465:G:OP2	2.46	0.48
1:B:516:C:C4'	1:B:1248:G:H5"	2.42	0.48
1:B:557:C:H2'	1:B:558:U:C6	2.48	0.48
1:B:595:C:H2'	1:B:596:U:C6	2.48	0.48
1:B:602:A:O2'	1:B:603:A:O5'	2.30	0.48
1:B:640:C:H2'	1:B:641:U:C6	2.49	0.48
1:B:657:U:H2'	1:B:658:U:C6	2.48	0.48
1:B:719:C:H2'	1:B:720:U:C6	2.48	0.48
1:B:723:C:H2'	1:B:724:U:C6	2.48	0.48
1:B:745:7MG:O5'	1:B:748:G:H1'	2.12	0.48
1:B:781:A:OP2	1:B:786:C:C5	2.66	0.48
1:B:802:A:P	1:B:802:A:O4'	2.71	0.48
1:B:803:U:OP2	1:B:1254:A:N9	2.47	0.48
1:B:869:G:H2'	1:B:870:U:C6	2.49	0.48
1:B:933:A:H8	1:B:935:C:OP2	1.94	0.48
1:B:1004:U:O2	1:B:1009:A:O3'	2.31	0.48
1:B:1014:A:H2'	1:B:1015:U:C6	2.49	0.48
1:B:1179:G:H2'	1:B:1180:U:C6	2.48	0.48
1:B:1272:A:O2'	1:B:1273:U:O5'	2.31	0.48
1:B:1343:G:H2'	1:B:1344:U:C6	2.48	0.48
1:B:1347:A:O3'	1:B:1716:U:O3'	2.32	0.48
1:B:1352:U:C2	1:B:1378:A:N6	2.82	0.48
1:B:1371:G:H2'	1:B:1372:U:C5'	2.43	0.48
1:B:1374:G:H2'	1:B:1375:U:C6	2.49	0.48
1:B:1401:G:H2'	1:B:1402:U:C6	2.48	0.48
1:B:1410:G:H2'	1:B:1411:U:C6	2.49	0.48
1:B:1470:A:C5'	1:B:1471:G:O2'	2.61	0.48
1:B:1516:G:C1'	1:B:1516:G:C8	2.82	0.48
1:B:1663:G:OP2	1:B:1664:A:C4'	2.61	0.48
1:B:1768:C:H2'	1:B:1769:U:C6	2.49	0.48
1:B:1778:U:O2'	1:B:2556:C:O2'	2.31	0.48
1:B:1825:U:O2'	1:B:1966:A:C1'	2.39	0.48
1:B:1826:G:H2'	1:B:1827:U:C6	2.48	0.48
1:B:1897:G:H2'	1:B:1898:U:C6	2.49	0.48
1:B:1929:G:H5'	1:B:1938:A:OP1	2.13	0.48
1:B:1947:C:O3'	1:B:1964:G:O3'	2.31	0.48
1:B:2108:A:P	1:B:2112:G:OP2	2.72	0.48
1:B:2111:U:C2	1:B:2112:G:O3'	2.59	0.48
1:B:2126:A:C4'	1:B:2127:G:C5'	2.91	0.48
1:B:2150:C:H2'	1:B:2151:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2242:G:H2'	1:B:2243:U:C6	2.48	0.48
1:B:2295:C:H2'	1:B:2296:U:C6	2.49	0.48
1:B:2528:U:H5	1:B:2529:G:C8	2.31	0.48
1:B:2603:G:H2'	1:B:2604:U:C6	2.48	0.48
1:B:2636:C:H2'	1:B:2637:U:C6	2.48	0.48
1:B:2682:A:C4	1:B:2720:U:C2	3.01	0.48
1:B:2820:A:N3	1:B:2825:G:O6	2.46	0.48
1:B:2831:G:H2'	1:B:2832:U:C6	2.48	0.48
1:B:2877:G:H2'	1:B:2878:U:C6	2.48	0.48
1:B:10:A:O2'	1:B:11:C:OP1	2.26	0.48
1:B:28:A:C2	1:B:674:G:C3'	2.96	0.48
1:B:98:G:N7	1:B:102:U:C5	2.78	0.48
1:B:134:G:H2'	1:B:135:U:C6	2.48	0.48
1:B:135:U:OP1	1:B:168:G:O4'	2.32	0.48
1:B:178:G:H4'	1:B:178:G:OP1	2.12	0.48
1:B:187:G:C4'	1:B:216:A:H4'	2.42	0.48
1:B:196:A:O2'	1:B:197:A:C8	2.65	0.48
1:B:246:C:H3'	1:B:247:G:C5'	2.43	0.48
1:B:270:A:C3'	1:B:271:G:O5'	2.61	0.48
1:B:291:G:H2'	1:B:292:U:C6	2.49	0.48
1:B:340:A:H2	1:B:346:A:O2'	1.96	0.48
1:B:388:G:N2	1:B:406:G:OP1	2.46	0.48
1:B:430:A:C4	1:B:431:U:H5	2.30	0.48
1:B:513:A:O3'	1:B:669:G:H1'	2.13	0.48
1:B:524:G:O3'	1:B:810:U:H3'	2.13	0.48
1:B:685:A:C4'	1:B:788:A:C8	2.97	0.48
1:B:701:G:H2'	1:B:702:U:C6	2.48	0.48
1:B:724:U:OP2	1:B:725:G:O4'	2.31	0.48
1:B:754:U:H2'	1:B:755:U:C6	2.48	0.48
1:B:781:A:P	1:B:786:C:H5	2.37	0.48
1:B:1199:U:OP1	1:B:1257:C:C5'	2.57	0.48
1:B:1230:A:H2'	1:B:1231:U:C6	2.48	0.48
1:B:1271:G:C1'	1:B:1271:G:C8	2.80	0.48
1:B:1281:G:C2'	1:B:1282:U:H5'	2.43	0.48
1:B:1286:A:C8	1:B:1286:A:OP2	2.66	0.48
1:B:1299:G:N7	1:B:1626:A:N7	2.62	0.48
1:B:1312:U:P	1:B:1641:A:N1	2.86	0.48
1:B:1339:G:C5'	1:B:1340:U:OP2	2.55	0.48
1:B:1363:C:H5	1:B:1365:A:C8	2.31	0.48
1:B:1377:G:O3'	1:B:1378:A:H3'	2.14	0.48
1:B:1452:G:C5'	1:B:1527:G:OP2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1485:U:H2'	1:B:1486:U:C6	2.49	0.48
1:B:1523:U:C5'	1:B:1528:A:C8	2.96	0.48
1:B:1593:A:H2'	1:B:1594:U:C6	2.49	0.48
1:B:1682:G:H2'	1:B:1683:U:C6	2.49	0.48
1:B:1801:A:N3	1:B:1816:C:H1'	2.29	0.48
1:B:1811:G:H2'	1:B:1812:U:H6	1.79	0.48
1:B:1866:A:H4'	1:B:1867:G:OP1	2.13	0.48
1:B:1885:A:OP2	1:B:1886:U:P	2.71	0.48
1:B:2059:A:O2'	1:B:2445:G:H4'	2.12	0.48
1:B:2062:A:C5'	1:B:2063:C:C4	2.88	0.48
1:B:2067:G:H2'	1:B:2068:U:C4	2.44	0.48
1:B:2186:G:H2'	1:B:2187:U:C6	2.49	0.48
1:B:2271:G:C1'	1:B:2271:G:C8	2.80	0.48
1:B:2291:U:H2'	1:B:2292:U:C6	2.48	0.48
1:B:2347:C:H2'	1:B:2348:U:C6	2.48	0.48
1:B:2376:A:C4'	1:B:2414:G:OP1	2.62	0.48
1:B:2378:A:P	1:B:2394:C:H6	2.35	0.48
1:B:2418:A:H2'	1:B:2419:U:C6	2.48	0.48
1:B:2504:U:O2'	1:B:2505:G:OP1	2.32	0.48
1:B:2518:A:H2'	1:B:2519:U:C6	2.49	0.48
1:B:2554:U:O2	1:B:2554:U:C2'	2.62	0.48
1:B:2570:G:H2'	1:B:2571:U:C6	2.49	0.48
1:B:2646:C:H2'	1:B:2647:U:C6	2.49	0.48
1:B:2686:G:C5'	1:B:2722:G:N2	2.75	0.48
1:B:2688:G:C2'	1:B:2689:U:O5'	2.61	0.48
1:B:2688:G:H5"	1:B:2728:U:O2'	2.12	0.48
1:B:2742:G:H2'	1:B:2743:U:C6	2.48	0.48
1:B:2767:C:H2'	1:B:2768:U:C6	2.49	0.48
1:B:2768:U:H2'	1:B:2769:U:C6	2.48	0.48
1:B:2785:C:H2'	1:B:2786:U:C6	2.49	0.48
1:B:2821:A:O2'	1:B:2822:G:C4'	2.61	0.48
1:B:9:G:H2'	1:B:526:A:C4'	2.44	0.48
1:B:69:C:H4'	1:B:85:G:H4'	0.52	0.48
1:B:91:A:OP2	1:B:91:A:O4'	2.31	0.48
1:B:93:G:C2'	1:B:498:G:C3'	2.91	0.48
1:B:147:C:H2'	1:B:148:U:C6	2.48	0.48
1:B:169:G:H2'	1:B:170:U:C6	2.48	0.48
1:B:187:G:O3'	1:B:216:A:O2'	2.32	0.48
1:B:228:C:C5	1:B:432:A:O2'	2.54	0.48
1:B:263:G:C8	1:B:362:A:OP1	2.66	0.48
1:B:446:G:H5"	1:B:472:A:H4'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:497:A:C1'	1:B:497:A:C8	2.79	0.48
1:B:499:U:H3'	1:B:500:G:O4'	2.13	0.48
1:B:514:A:C5'	1:B:669:G:O2'	2.59	0.48
1:B:518:G:H2'	1:B:519:U:C6	2.49	0.48
1:B:526:A:OP2	1:B:811:U:O3'	2.31	0.48
1:B:551:G:H2'	1:B:552:U:C6	2.49	0.48
1:B:568:U:H3	1:B:569:U:H1'	1.78	0.48
1:B:571:U:O2	1:B:573:U:C5	2.67	0.48
1:B:655:A:H3'	1:B:656:G:H5'	1.96	0.48
1:B:782:A:H5'	1:B:783:A:C4	2.48	0.48
1:B:783:A:C4	1:B:784:G:OP2	2.67	0.48
1:B:851:C:H2'	1:B:852:U:C6	2.48	0.48
1:B:929:U:C5	1:B:931:U:H5	2.31	0.48
1:B:966:G:H2'	1:B:967:U:C6	2.49	0.48
1:B:1017:G:H2'	1:B:1018:U:C6	2.48	0.48
1:B:1147:A:H2'	1:B:1148:U:C6	2.49	0.48
1:B:1200:C:H2'	1:B:1201:U:C6	2.49	0.48
1:B:1216:G:H2'	1:B:1217:U:C6	2.48	0.48
1:B:1315:C:H2'	1:B:1316:U:C6	2.49	0.48
1:B:1473:G:H2'	1:B:1474:U:C6	2.48	0.48
1:B:1553:A:O2'	1:B:1555:G:O6	2.31	0.48
1:B:1588:G:H2'	1:B:1589:U:C6	2.49	0.48
1:B:1628:G:H2'	1:B:1629:U:C6	2.48	0.48
1:B:1695:G:C8	1:B:2704:C:C2'	2.70	0.48
1:B:1740:G:C1'	1:B:1740:G:C8	2.82	0.48
1:B:1750:G:H2'	1:B:1751:U:C6	2.48	0.48
1:B:1853:A:C4'	1:B:1853:A:H5'	2.19	0.48
1:B:1855:U:O2'	1:B:1884:G:OP2	2.27	0.48
1:B:1857:G:C4'	1:B:1857:G:H5"	2.24	0.48
1:B:1886:U:O3'	1:B:1887:C:H3'	2.14	0.48
1:B:1928:A:P	1:B:1937:A:H5"	2.54	0.48
1:B:2060:A:H8	1:B:2559:C:O4'	1.96	0.48
1:B:2074:U:H2'	1:B:2075:U:C6	2.49	0.48
1:B:2166:U:H4'	1:B:2168:G:C4'	2.43	0.48
1:B:2219:U:H2'	1:B:2220:U:C6	2.48	0.48
1:B:2238:G:C1'	1:B:2238:G:C8	2.81	0.48
1:B:2256:G:H2'	1:B:2257:U:C6	2.49	0.48
1:B:2459:A:H2'	1:B:2460:U:C6	2.49	0.48
1:B:2475:C:H5'	1:B:2476:A:C5'	2.43	0.48
1:B:2491:U:H2'	1:B:2492:U:C6	2.48	0.48
1:B:2536:G:H2'	1:B:2537:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2685:G:C2'	1:B:2722:G:N3	2.77	0.48
1:B:2690:U:C2	1:B:2691:C:C5'	2.96	0.48
1:B:2694:G:H2'	1:B:2695:U:C6	2.49	0.48
1:B:2727:A:H2'	1:B:2728:U:C6	2.48	0.48
1:B:2733:A:C3'	1:B:2770:G:N2	2.74	0.48
1:B:2777:G:H3'	1:B:2777:G:N3	2.28	0.48
1:B:2820:A:O3'	1:B:2820:A:O2'	2.32	0.48
1:B:2865:U:H2'	1:B:2866:U:C6	2.48	0.48
1:B:7:G:O3'	1:B:10:A:OP1	2.31	0.48
1:B:144:A:OP1	1:B:1327:A:N1	2.45	0.48
1:B:186:G:H1'	1:B:218:A:C5	2.48	0.48
1:B:202:U:H4'	1:B:204:A:O4'	2.13	0.48
1:B:216:A:H5"	1:B:218:A:N9	2.28	0.48
1:B:248:G:C1'	1:B:248:G:C8	2.80	0.48
1:B:333:G:H2'	1:B:334:C:C6	2.49	0.48
1:B:335:C:H2'	1:B:336:C:C6	2.49	0.48
1:B:394:C:H2'	1:B:395:U:C6	2.49	0.48
1:B:499:U:C4	1:B:505:A:N3	2.81	0.48
1:B:514:A:H4'	1:B:670:A:OP2	2.14	0.48
1:B:520:G:H2'	1:B:521:U:C6	2.48	0.48
1:B:567:U:O2'	1:B:834:G:H5"	2.13	0.48
1:B:579:G:H2'	1:B:580:U:C6	2.49	0.48
1:B:670:A:O3'	1:B:671:C:OP1	2.31	0.48
1:B:781:A:O4'	1:B:786:C:OP2	2.31	0.48
1:B:805:G:H5'	1:B:1254:A:C1'	2.41	0.48
1:B:861:A:H1'	1:B:863:A:H2	1.74	0.48
1:B:875:G:C6	1:B:876:C:H5	2.30	0.48
1:B:877:A:H2'	1:B:877:A:N3	2.29	0.48
1:B:1004:U:O2	1:B:1009:A:P	2.72	0.48
1:B:1112:G:H2'	1:B:1113:U:C6	2.48	0.48
1:B:1144:A:H2'	1:B:1145:C:C6	2.49	0.48
1:B:1208:C:H2'	1:B:1209:U:C6	2.49	0.48
1:B:1369:G:H2'	1:B:1370:C:C6	2.49	0.48
1:B:1377:G:C1'	1:B:1377:G:C8	2.82	0.48
1:B:1425:G:H4'	1:B:1566:A:H4'	1.95	0.48
1:B:1582:C:C3'	1:B:1584:U:H5"	2.43	0.48
1:B:1583:A:H4'	1:B:1584:U:C5'	2.44	0.48
1:B:1608:A:C2'	1:B:1622:G:OP1	2.61	0.48
1:B:1674:G:C1'	1:B:1679:A:H3'	2.44	0.48
1:B:1676:A:OP2	1:B:1677:A:O5'	2.32	0.48
1:B:1702:G:H5'	1:B:1989:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1711:A:H2'	1:B:1712:U:C6	2.49	0.48
1:B:1761:C:H4'	1:B:1762:A:O5'	2.13	0.48
1:B:1782:U:C2'	1:B:1783:A:H8	2.20	0.48
1:B:1881:C:H2'	1:B:1882:U:C6	2.49	0.48
1:B:1905:C:O5'	1:B:1928:A:O5'	2.31	0.48
1:B:2073:C:H2'	1:B:2074:U:C6	2.48	0.48
1:B:2085:U:C2'	1:B:2086:U:H4'	2.33	0.48
1:B:2193:G:H2'	1:B:2194:U:C6	2.48	0.48
1:B:2237:G:O2'	1:B:2238:G:C8	2.66	0.48
1:B:2328:A:H2'	1:B:2329:U:C6	2.48	0.48
1:B:2375:G:P	1:B:2413:G:C3'	3.01	0.48
1:B:2455:G:C5	1:B:2665:A:O2'	2.67	0.48
1:B:2490:G:H2'	1:B:2491:U:C6	2.48	0.48
1:B:2527:C:H2'	1:B:2528:U:C6	2.49	0.48
1:B:2555:U:C1'	1:B:2556:C:OP1	2.62	0.48
1:B:2679:A:H2'	1:B:2680:U:C6	2.49	0.48
1:B:2864:G:H2'	1:B:2865:U:C6	2.48	0.48
1:B:10:A:N1	1:B:525:U:P	2.86	0.48
1:B:15:G:H5'	1:B:1197:G:O2'	2.13	0.48
1:B:72:U:N1	1:B:114:U:H5"	2.28	0.48
1:B:78:U:OP2	1:B:102:U:H1'	2.13	0.48
1:B:81:G:H2'	1:B:82:U:C6	2.48	0.48
1:B:86:G:H2'	1:B:87:U:C6	2.49	0.48
1:B:100:U:P	1:B:120:U:P	3.12	0.48
1:B:127:A:O2'	1:B:127:A:C4	2.66	0.48
1:B:144:A:H2'	1:B:145:C:C6	2.49	0.48
1:B:221:A:H1'	1:B:222:A:C1'	2.43	0.48
1:B:233:A:N1	1:B:235:U:H5"	2.28	0.48
1:B:390:U:N3	1:B:391:A:C5	2.82	0.48
1:B:426:C:H2'	1:B:427:U:C6	2.49	0.48
1:B:516:C:OP1	1:B:1248:G:C8	2.67	0.48
1:B:565:C:H5"	1:B:836:G:C6	2.49	0.48
1:B:594:U:H2'	1:B:595:C:C6	2.49	0.48
1:B:656:G:H2'	1:B:657:U:C6	2.49	0.48
1:B:705:A:N6	1:B:725:G:C3'	2.74	0.48
1:B:740:C:H2'	1:B:741:U:C6	2.48	0.48
1:B:772:C:H2'	1:B:773:U:C6	2.49	0.48
1:B:822:G:H2'	1:B:823:C:C6	2.49	0.48
1:B:894:U:H2'	1:B:895:U:C6	2.49	0.48
1:B:913:U:H1'	1:B:919:U:O4	2.14	0.48
1:B:928:A:H2'	1:B:929:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1113:U:H2'	1:B:1114:C:C6	2.49	0.48
1:B:1198:U:H5"	1:B:1256:G:O2'	2.12	0.48
1:B:1221:C:H2'	1:B:1222:U:C6	2.48	0.48
1:B:1257:C:H2'	1:B:1258:U:C6	2.48	0.48
1:B:1275:A:H61	1:B:1276:A:N6	2.11	0.48
1:B:1299:G:H2'	1:B:1300:G:OP2	2.13	0.48
1:B:1319:C:H2'	1:B:1320:C:C6	2.49	0.48
1:B:1320:C:C3'	1:B:1323:C:H5'	2.43	0.48
1:B:1399:C:H2'	1:B:1400:U:C6	2.48	0.48
1:B:1416:G:C1'	1:B:1416:G:C8	2.80	0.48
1:B:1486:U:H2'	1:B:1487:U:C6	2.49	0.48
1:B:1508:A:HO2'	1:B:1509:A:P	2.37	0.48
1:B:1524:G:OP2	1:B:1528:A:H5'	2.13	0.48
1:B:1654:A:H2'	1:B:1655:A:N1	2.22	0.48
1:B:1674:G:H4'	1:B:1678:A:N6	2.27	0.48
1:B:1705:A:H2'	1:B:1706:C:C6	2.49	0.48
1:B:1764:C:H2'	1:B:1765:U:C6	2.49	0.48
1:B:1794:A:H2'	1:B:1795:C:C6	2.49	0.48
1:B:1797:G:H2'	1:B:1798:U:C6	2.49	0.48
1:B:1800:C:O2	1:B:1800:C:C2'	2.61	0.48
1:B:1873:G:OP1	1:B:2134:A:N6	2.47	0.48
1:B:1888:G:C5'	1:B:1888:G:O3'	2.61	0.48
1:B:1934:C:O5'	1:B:1935:G:O5'	2.32	0.48
1:B:2060:A:H4'	1:B:2446:G:H4'	1.95	0.48
1:B:2098:U:H2'	1:B:2099:U:H6	1.79	0.48
1:B:2144:G:C5'	1:B:2145:C:OP1	2.62	0.48
1:B:2248:C:H2'	1:B:2249:U:C6	2.48	0.48
1:B:2305:U:H2'	1:B:2307:G:OP2	2.14	0.48
1:B:2331:G:H2'	1:B:2332:C:C6	2.49	0.48
1:B:2342:C:H2'	1:B:2343:U:C6	2.48	0.48
1:B:2593:U:H2'	1:B:2594:C:C6	2.49	0.48
1:B:2700:A:H2'	1:B:2701:U:C6	2.49	0.48
1:B:2757:A:H2'	1:B:2758:A:O4'	2.13	0.48
1:B:2792:A:H2'	1:B:2793:C:C6	2.49	0.48
1:B:2832:U:H2'	1:B:2833:U:C6	2.48	0.48
1:B:2880:C:H2'	1:B:2881:U:C6	2.48	0.48
1:B:2885:G:OP1	1:B:2886:A:O3'	2.32	0.48
1:B:2888:C:H2'	1:B:2889:C:C6	2.49	0.48
1:B:108:G:H2'	1:B:109:C:C6	2.49	0.48
1:B:141:G:H2'	1:B:1331:G:C1'	2.44	0.48
1:B:152:A:H2'	1:B:153:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:G:H2'	1:B:170:U:H6	1.79	0.48
1:B:173:A:H2'	1:B:174:U:C6	2.49	0.48
1:B:191:A:H2'	1:B:192:C:C6	2.49	0.48
1:B:205:G:H2'	1:B:206:U:C6	2.48	0.48
1:B:232:G:C1'	1:B:232:G:C8	2.81	0.48
1:B:238:C:O2'	1:B:274:C:H2'	2.14	0.48
1:B:266:G:H2'	1:B:267:C:C6	2.49	0.48
1:B:297:G:H2'	1:B:298:G:O5'	2.14	0.48
1:B:305:C:H2'	1:B:306:U:H6	1.79	0.48
1:B:463:G:C1'	1:B:463:G:C8	2.80	0.48
1:B:486:C:H2'	1:B:487:C:C6	2.49	0.48
1:B:539:G:H2'	1:B:540:C:C6	2.49	0.48
1:B:574:A:C4	1:B:2039:U:O5'	2.67	0.48
1:B:605:G:H2'	1:B:606:U:H6	1.79	0.48
1:B:792:A:N7	1:B:794:A:N6	2.49	0.48
1:B:793:A:C5'	1:B:794:A:OP2	2.62	0.48
1:B:814:C:H2'	1:B:815:C:C6	2.49	0.48
1:B:1026:G:H2'	1:B:1027:A:C1'	2.35	0.48
1:B:1134:A:H5'	1:B:1141:U:O2'	2.14	0.48
1:B:1182:G:H2'	1:B:1183:U:C6	2.49	0.48
1:B:1284:A:OP1	1:B:2013:A:OP1	2.32	0.48
1:B:1393:A:H5"	1:B:1394:U:H1'	1.95	0.48
1:B:1395:A:C5'	1:B:1396:U:C5'	2.65	0.48
1:B:1419:A:O2'	1:B:1573:G:C8	2.59	0.48
1:B:1471:G:H2'	1:B:1472:C:C6	2.49	0.48
1:B:1484:U:H2'	1:B:1485:U:C6	2.49	0.48
1:B:1527:G:C1'	1:B:1527:G:C8	2.79	0.48
1:B:1599:U:H2'	1:B:1600:C:C6	2.49	0.48
1:B:1673:G:C5'	1:B:1680:U:C4	2.97	0.48
1:B:1725:U:H2'	1:B:1726:C:C6	2.49	0.48
1:B:1741:C:H2'	1:B:1742:U:C6	2.48	0.48
1:B:1845:G:H5"	1:B:2232:C:O2'	2.14	0.48
1:B:1847:A:O2'	1:B:1857:G:H1'	2.14	0.48
1:B:1856:U:C4	1:B:1885:A:O5'	2.66	0.48
1:B:1856:U:C2	1:B:1856:U:C2'	2.96	0.48
1:B:1885:A:P	1:B:1886:U:P	3.12	0.48
1:B:1904:G:H2'	1:B:1905:C:C6	2.49	0.48
1:B:1912:A:C2	1:B:1915:5MU:C5M	2.90	0.48
1:B:1940:U:O3'	1:B:2063:C:OP1	2.31	0.48
1:B:1945:G:H2'	1:B:1946:U:C6	2.48	0.48
1:B:1945:G:H2'	1:B:1946:U:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1954:G:C4’	1:B:1955:U:C5	2.97	0.48
1:B:1975:G:H2’	1:B:1976:U:C6	2.49	0.48
1:B:1993:U:H2’	1:B:1994:C:C6	2.49	0.48
1:B:2007:U:H2’	1:B:2008:C:C6	2.49	0.48
1:B:2035:G:H2’	1:B:2036:C:C6	2.48	0.48
1:B:2051:A:H8	1:B:2609:U:P	2.37	0.48
1:B:2077:A:H2’	1:B:2078:C:C6	2.49	0.48
1:B:2078:C:H2’	1:B:2079:U:C6	2.49	0.48
1:B:2080:A:H2’	1:B:2081:U:C6	2.49	0.48
1:B:2083:G:H2’	1:B:2084:C:C6	2.49	0.48
1:B:2154:A:H2’	1:B:2155:U:C6	2.49	0.48
1:B:2231:U:H2’	1:B:2232:C:C6	2.49	0.48
1:B:2386:A:H2’	1:B:2387:U:C6	2.48	0.48
1:B:2397:G:H2’	1:B:2398:U:H6	1.79	0.48
1:B:2451:A:O4’	1:B:2563:U:C4	2.67	0.48
1:B:2479:U:H2’	1:B:2480:C:C6	2.49	0.48
1:B:2489:U:C5’	1:B:2502:G:OP1	2.62	0.48
1:B:2513:A:H2’	1:B:2514:U:H6	1.79	0.48
1:B:2598:A:C4	1:B:2599:G:C8	3.01	0.48
1:B:2616:C:H2’	1:B:2617:U:C6	2.49	0.48
1:B:2715:C:H2’	1:B:2716:C:C6	2.49	0.48
1:B:2807:U:H3’	1:B:2890:G:N2	2.29	0.48
1:B:2869:G:O2’	1:B:2870:C:C4’	2.61	0.48
1:B:2877:G:H2’	1:B:2878:U:H6	1.79	0.48
1:B:2896:C:H2’	1:B:2897:U:H6	1.79	0.48
1:B:46:G:C1’	1:B:46:G:C8	2.84	0.48
1:B:75:G:H4’	1:B:113:U:C5’	2.20	0.48
1:B:77:G:C4’	1:B:99:U:H1’	2.43	0.48
1:B:77:G:H2’	1:B:78:U:H6	1.79	0.48
1:B:83:A:H5’	1:B:84:A:N3	2.28	0.48
1:B:95:A:H2’	1:B:96:C:C6	2.49	0.48
1:B:114:U:H2’	1:B:115:C:C6	2.49	0.48
1:B:148:U:H5’	1:B:149:A:C4’	2.44	0.48
1:B:214:G:H4’	1:B:256:A:C2	2.49	0.48
1:B:263:G:OP1	1:B:429:A:H3’	2.14	0.48
1:B:294:A:C5’	1:B:294:A:HO5’	2.14	0.48
1:B:313:G:H2’	1:B:314:C:C6	2.49	0.48
1:B:315:G:H2’	1:B:316:C:C6	2.49	0.48
1:B:377:G:OP1	1:B:403:U:N1	2.47	0.48
1:B:515:A:H2’	1:B:516:C:C6	2.49	0.48
1:B:585:G:C4’	1:B:1196:C:C4’	2.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:675:A:H1'	1:B:1249:U:C3'	2.43	0.48
1:B:679:C:H2'	1:B:680:C:C6	2.49	0.48
1:B:682:G:H2'	1:B:683:U:C6	2.49	0.48
1:B:693:A:H2'	1:B:694:U:C6	2.49	0.48
1:B:722:A:H2'	1:B:723:C:C6	2.49	0.48
1:B:744:U:H2'	1:B:748:G:O4'	2.09	0.48
1:B:774:G:OP1	1:B:777:G:O6	2.32	0.48
1:B:794:A:H2'	1:B:795:C:C6	2.49	0.48
1:B:866:A:N3	1:B:915:C:O2'	2.45	0.48
1:B:893:C:H2'	1:B:894:U:C6	2.49	0.48
1:B:906:U:H4'	1:B:907:G:O4'	2.13	0.48
1:B:985:C:H2'	1:B:986:C:C6	2.49	0.48
1:B:1049:C:C4	1:B:1050:A:N9	2.82	0.48
1:B:1272:A:C5'	1:B:1649:G:OP1	2.62	0.48
1:B:1299:G:C1'	1:B:1299:G:C8	2.83	0.48
1:B:1358:G:N1	1:B:1370:C:N4	2.54	0.48
1:B:1417:C:H2'	1:B:1635:A:N1	2.20	0.48
1:B:1476:U:C5'	1:B:1516:G:H5'	2.43	0.48
1:B:1479:G:H2'	1:B:1480:C:C6	2.49	0.48
1:B:1483:G:H2'	1:B:1484:U:C6	2.48	0.48
1:B:1498:C:H2'	1:B:1499:C:C6	2.49	0.48
1:B:1530:G:H2'	1:B:1531:C:C6	2.49	0.48
1:B:1538:G:H2'	1:B:1539:U:H6	1.79	0.48
1:B:1576:U:H2'	1:B:1577:C:C6	2.49	0.48
1:B:1697:G:P	1:B:2703:C:C5	3.07	0.48
1:B:1735:A:H2'	1:B:1736:U:C6	2.49	0.48
1:B:1740:G:N2	1:B:1740:G:P	2.86	0.48
1:B:1791:A:O3'	1:B:1942:C:C5	2.66	0.48
1:B:1879:C:H2'	1:B:1880:U:C6	2.49	0.48
1:B:1894:C:H2'	1:B:1895:C:C6	2.49	0.48
1:B:1916:A:C2'	1:B:1917:PSU:C6	2.86	0.48
1:B:1922:G:H2'	1:B:1923:U:H6	1.79	0.48
1:B:1936:A:H8	1:B:1938:A:C3'	2.24	0.48
1:B:1943:U:H2'	1:B:2071:A:O3'	2.14	0.48
1:B:1971:U:C1'	1:B:1973:G:P	2.96	0.48
1:B:1978:A:H8	1:B:1979:U:H4'	1.77	0.48
1:B:2064:C:H2'	1:B:2065:C:C6	2.49	0.48
1:B:2085:U:C2'	1:B:2086:U:O5'	2.61	0.48
1:B:2108:A:H5"	1:B:2110:G:O3'	2.14	0.48
1:B:2115:G:N1	1:B:2172:U:O4	2.46	0.48
1:B:2136:G:H2'	1:B:2137:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2181:U:H2'	1:B:2182:U:C6	2.49	0.48
1:B:2195:U:H2'	1:B:2196:C:C6	2.49	0.48
1:B:2323:G:H2'	1:B:2324:U:C6	2.49	0.48
1:B:2338:C:H2'	1:B:2339:C:C6	2.49	0.48
1:B:2455:G:H2'	1:B:2456:C:C6	2.49	0.48
1:B:2503:A:H4'	1:B:2504:U:H6	1.79	0.48
1:B:2537:U:H2'	1:B:2538:C:C6	2.49	0.48
1:B:2545:G:H2'	1:B:2546:U:C6	2.49	0.48
1:B:2557:G:H2'	1:B:2558:C:C6	2.49	0.48
1:B:2558:C:H2'	1:B:2559:C:C6	2.49	0.48
1:B:2560:A:H2'	1:B:2561:U:C6	2.49	0.48
1:B:2600:A:H2'	1:B:2601:C:C6	2.49	0.48
1:B:2648:G:H2'	1:B:2649:C:C6	2.49	0.48
1:B:2697:G:H2'	1:B:2698:U:C6	2.48	0.48
1:B:2761:A:H2'	1:B:2762:C:C6	2.49	0.48
1:B:2838:G:H2'	1:B:2839:G:C8	2.49	0.48
1:B:2866:U:C2'	1:B:2867:G:N3	2.77	0.48
1:B:30:G:H2'	1:B:31:C:C6	2.49	0.47
1:B:58:G:H2'	1:B:59:U:C6	2.48	0.47
1:B:60:G:H21	1:B:62:U:H5	1.61	0.47
1:B:65:U:H2'	1:B:66:C:C6	2.49	0.47
1:B:67:U:C3'	1:B:68:G:H5"	2.36	0.47
1:B:129:C:H2'	1:B:130:C:C6	2.49	0.47
1:B:153:U:H2'	1:B:154:U:C6	2.49	0.47
1:B:170:U:H2'	1:B:171:U:H6	1.79	0.47
1:B:201:C:C2'	1:B:202:U:H3'	2.44	0.47
1:B:209:C:H2'	1:B:210:C:C6	2.49	0.47
1:B:215:G:O4'	1:B:257:C:C6	2.66	0.47
1:B:303:G:H2'	1:B:304:U:H6	1.79	0.47
1:B:317:G:H2'	1:B:318:C:C6	2.49	0.47
1:B:336:C:H2'	1:B:337:C:C6	2.49	0.47
1:B:342:A:H2'	1:B:343:C:C6	2.49	0.47
1:B:352:A:H2'	1:B:353:C:C6	2.49	0.47
1:B:507:A:H8	1:B:1245:G:P	2.23	0.47
1:B:507:A:C5'	1:B:1245:G:OP1	2.62	0.47
1:B:537:G:O5'	1:B:538:A:OP1	2.32	0.47
1:B:569:U:O5'	1:B:2042:A:C2	2.66	0.47
1:B:574:A:C1'	1:B:574:A:C8	2.83	0.47
1:B:588:U:C2'	1:B:589:U:OP2	2.62	0.47
1:B:634:C:H2'	1:B:635:C:C6	2.49	0.47
1:B:649:G:H2'	1:B:650:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:649:G:OP2	1:B:652:U:OP1	2.31	0.47
1:B:657:U:H2'	1:B:658:U:H6	1.79	0.47
1:B:697:G:O2'	1:B:698:C:O4'	2.27	0.47
1:B:708:G:H2'	1:B:709:U:C6	2.48	0.47
1:B:736:C:H2'	1:B:737:C:C6	2.49	0.47
1:B:765:C:H2'	1:B:766:U:C6	2.48	0.47
1:B:792:A:N3	1:B:792:A:H2'	2.28	0.47
1:B:866:A:C1'	1:B:866:A:C8	2.82	0.47
1:B:902:C:H2'	1:B:903:C:C6	2.49	0.47
1:B:921:C:H2'	1:B:922:C:C6	2.49	0.47
1:B:954:G:H2'	1:B:955:U:C6	2.49	0.47
1:B:1018:U:H2'	1:B:1019:U:C6	2.49	0.47
1:B:1022:G:N2	1:B:2482:A:H8	1.80	0.47
1:B:1177:G:H2'	1:B:1178:C:C6	2.49	0.47
1:B:1188:U:C2	1:B:1188:U:C2'	2.97	0.47
1:B:1207:C:H2'	1:B:1208:C:C6	2.49	0.47
1:B:1235:G:H21	1:B:1236:G:N2	2.12	0.47
1:B:1269:A:H2'	1:B:1270:C:C6	2.49	0.47
1:B:1290:C:H2'	1:B:1291:C:C6	2.49	0.47
1:B:1356:G:H2'	1:B:1357:C:C6	2.49	0.47
1:B:1401:G:H2'	1:B:1402:U:H6	1.79	0.47
1:B:1403:A:H2'	1:B:1404:C:C6	2.49	0.47
1:B:1408:G:H2'	1:B:1409:U:C6	2.49	0.47
1:B:1428:C:C4'	1:B:1429:G:C5'	2.62	0.47
1:B:1466:U:C4'	1:B:1466:U:H5'	2.18	0.47
1:B:1552:A:H2	1:B:1555:G:OP1	1.96	0.47
1:B:1568:G:C4'	1:B:1568:G:H5'	2.19	0.47
1:B:1574:C:H2'	1:B:1575:C:C6	2.49	0.47
1:B:1611:C:H2'	1:B:1612:C:C6	2.49	0.47
1:B:1684:G:H2'	1:B:1685:C:C6	2.49	0.47
1:B:1721:G:C1'	1:B:1721:G:C8	2.81	0.47
1:B:1724:G:H2'	1:B:1725:U:C6	2.48	0.47
1:B:1778:U:H2'	1:B:1779:U:C6	2.49	0.47
1:B:1783:A:C4	1:B:1784:A:C8	3.02	0.47
1:B:1787:A:H2'	1:B:1788:C:C6	2.49	0.47
1:B:1790:C:OP1	1:B:1970:A:O3'	2.31	0.47
1:B:1821:A:H2'	1:B:1822:C:C6	2.49	0.47
1:B:1837:C:O2'	1:B:1838:C:OP1	2.27	0.47
1:B:1863:G:H2'	1:B:1864:U:C6	2.49	0.47
1:B:1919:A:H2'	1:B:1920:C:C6	2.49	0.47
1:B:1935:G:N3	1:B:1935:G:H2'	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2080:A:OP2	1:B:2082:A:C2	2.67	0.47
1:B:2092:U:H3'	1:B:2093:G:OP1	2.12	0.47
1:B:2092:U:H5"	1:B:2093:G:OP1	2.13	0.47
1:B:2108:A:H5'	1:B:2110:G:O2'	2.14	0.47
1:B:2121:G:H2'	1:B:2122:U:C6	2.48	0.47
1:B:2128:G:H2'	1:B:2129:C:C6	2.49	0.47
1:B:2131:U:C2	1:B:2131:U:C2'	2.97	0.47
1:B:2142:A:H2'	1:B:2143:C:C6	2.49	0.47
1:B:2149:U:H2'	1:B:2150:C:C6	2.49	0.47
1:B:2187:U:H2'	1:B:2188:U:H6	1.79	0.47
1:B:2191:A:H2'	1:B:2192:U:C6	2.49	0.47
1:B:2201:G:H2'	1:B:2202:U:C6	2.49	0.47
1:B:2210:U:H2'	1:B:2211:A:OP1	2.14	0.47
1:B:2261:C:H2'	1:B:2262:U:H6	1.79	0.47
1:B:2300:C:H2'	1:B:2301:C:C6	2.49	0.47
1:B:2342:C:H2'	1:B:2343:U:H6	1.79	0.47
1:B:2400:G:H2'	1:B:2401:U:C6	2.48	0.47
1:B:2461:A:H2'	1:B:2462:C:C6	2.49	0.47
1:B:2488:G:OP1	1:B:2575:C:N4	2.47	0.47
1:B:2495:G:H2'	1:B:2496:C:C6	2.49	0.47
1:B:2538:C:H2'	1:B:2539:C:C6	2.49	0.47
1:B:2539:C:H2'	1:B:2540:C:C6	2.49	0.47
1:B:2547:A:H2'	1:B:2548:U:C6	2.49	0.47
1:B:2586:U:C6	1:B:2586:U:OP1	2.67	0.47
1:B:2635:A:H2'	1:B:2636:C:C6	2.49	0.47
1:B:2655:G:N3	1:B:2656:U:H5	2.10	0.47
1:B:2685:G:C4	1:B:2722:G:H2'	2.49	0.47
1:B:2690:U:C2'	1:B:2691:C:H5'	2.44	0.47
1:B:2759:G:H2'	1:B:2760:C:C6	2.49	0.47
1:B:2784:U:H2'	1:B:2785:C:C6	2.49	0.47
1:B:2816:G:H2'	1:B:2817:U:C6	2.48	0.47
1:B:2839:G:H2'	1:B:2840:C:C6	2.49	0.47
1:B:2849:U:P	1:B:2872:A:C5'	3.01	0.47
1:B:2852:G:H2'	1:B:2853:C:C6	2.49	0.47
1:B:2895:G:H2'	1:B:2896:C:C6	2.49	0.47
1:B:10:A:OP2	1:B:526:A:O5'	2.33	0.47
1:B:39:G:H2'	1:B:40:U:C6	2.49	0.47
1:B:68:G:H2'	1:B:69:C:C6	2.49	0.47
1:B:77:G:C5'	1:B:99:U:C1'	2.89	0.47
1:B:98:G:H1'	1:B:101:A:C2'	2.41	0.47
1:B:142:A:H2'	1:B:143:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:146:A:H2'	1:B:147:C:C6	2.50	0.47
1:B:192:C:H2'	1:B:193:U:C6	2.48	0.47
1:B:192:C:H2'	1:B:193:U:H6	1.79	0.47
1:B:200:U:H2'	1:B:201:C:C6	2.49	0.47
1:B:208:C:H2'	1:B:209:C:C6	2.49	0.47
1:B:210:C:H2'	1:B:211:C:C6	2.49	0.47
1:B:221:A:O5'	1:B:278:A:P	2.72	0.47
1:B:231:A:C2	1:B:431:U:N3	2.64	0.47
1:B:235:U:H2'	1:B:236:C:C6	2.49	0.47
1:B:245:G:H2'	1:B:246:C:C6	2.50	0.47
1:B:298:G:C1'	1:B:298:G:C8	2.80	0.47
1:B:320:A:O2'	1:B:324:A:O3'	2.24	0.47
1:B:413:C:H2'	1:B:414:C:C6	2.49	0.47
1:B:450:G:O4'	1:B:452:G:C2'	2.62	0.47
1:B:551:G:H2'	1:B:552:U:H6	1.80	0.47
1:B:708:G:H2'	1:B:709:U:H6	1.79	0.47
1:B:786:C:H2'	1:B:787:C:C6	2.49	0.47
1:B:795:C:H2'	1:B:796:C:C6	2.49	0.47
1:B:812:C:H2'	1:B:813:U:C6	2.48	0.47
1:B:849:A:H2'	1:B:850:U:C6	2.48	0.47
1:B:883:G:H2'	1:B:884:U:C6	2.49	0.47
1:B:936:A:H2'	1:B:937:C:C6	2.49	0.47
1:B:947:A:H2'	1:B:948:C:C6	2.49	0.47
1:B:969:G:H2'	1:B:970:U:C6	2.48	0.47
1:B:1003:G:H2'	1:B:1004:U:C6	2.49	0.47
1:B:1005:C:H1'	1:B:1011:G:C5'	2.42	0.47
1:B:1116:G:H3'	1:B:2750:A:C3'	2.43	0.47
1:B:1183:U:H2'	1:B:1184:U:C6	2.49	0.47
1:B:1208:C:H2'	1:B:1209:U:H6	1.80	0.47
1:B:1257:C:H2'	1:B:1258:U:H6	1.79	0.47
1:B:1282:U:C2'	1:B:2012:G:H1	2.26	0.47
1:B:1313:U:H2'	1:B:1314:C:C6	2.49	0.47
1:B:1334:G:H2'	1:B:1335:C:C6	2.49	0.47
1:B:1350:C:H2'	1:B:1351:C:C6	2.49	0.47
1:B:1427:A:C5'	1:B:1572:A:C2	2.98	0.47
1:B:1451:C:C2'	1:B:1458:U:O4	2.53	0.47
1:B:1512:C:H2'	1:B:1513:U:C6	2.49	0.47
1:B:1527:G:O2'	1:B:1528:A:C3'	2.62	0.47
1:B:1556:C:H2'	1:B:1557:C:C6	2.49	0.47
1:B:1597:A:OP2	1:B:1598:A:O3'	2.30	0.47
1:B:1623:G:H2'	1:B:1624:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1628:G:H2'	1:B:1629:U:H6	1.79	0.47
1:B:1674:G:O3'	1:B:1678:A:O3'	2.32	0.47
1:B:1685:C:H2'	1:B:1686:C:C6	2.49	0.47
1:B:1707:G:H2'	1:B:1708:C:C6	2.49	0.47
1:B:1736:U:H5	1:B:1739:A:O2'	1.95	0.47
1:B:1746:A:H2'	1:B:1747:U:C6	2.49	0.47
1:B:1767:G:H2'	1:B:1768:C:C6	2.49	0.47
1:B:1777:U:H2'	1:B:1778:U:C6	2.48	0.47
1:B:1856:U:O3'	1:B:1886:U:H1'	2.15	0.47
1:B:1864:U:H2'	1:B:1865:U:C6	2.49	0.47
1:B:1870:C:C1'	1:B:2159:G:N7	2.72	0.47
1:B:1881:C:H2'	1:B:1882:U:H6	1.79	0.47
1:B:1927:A:C4'	1:B:1927:A:O3'	2.61	0.47
1:B:1942:C:O4'	1:B:2442:C:O4'	2.32	0.47
1:B:1969:A:H2'	1:B:1969:A:N3	2.29	0.47
1:B:1992:G:H1'	1:B:1993:U:C6	2.49	0.47
1:B:2000:C:H2'	1:B:2001:C:C6	2.49	0.47
1:B:2006:C:H2'	1:B:2007:U:H6	1.79	0.47
1:B:2010:G:H2'	1:B:2011:U:C6	2.48	0.47
1:B:2020:A:C8	1:B:2020:A:O2'	2.64	0.47
1:B:2044:C:H2'	1:B:2045:C:C6	2.49	0.47
1:B:2088:A:H2'	1:B:2089:C:C6	2.49	0.47
1:B:2105:U:H2'	1:B:2106:U:C6	2.48	0.47
1:B:2228:G:H2'	1:B:2229:U:C6	2.48	0.47
1:B:2232:C:H3'	1:B:2233:U:C4'	2.41	0.47
1:B:2245:U:O4	1:B:2274:A:C2'	2.59	0.47
1:B:2259:U:H2'	1:B:2260:C:C6	2.49	0.47
1:B:2265:U:O2	1:B:2267:A:C4'	2.62	0.47
1:B:2337:G:H2'	1:B:2338:C:C6	2.49	0.47
1:B:2441:U:H2'	1:B:2442:C:C6	2.49	0.47
1:B:2456:C:H2'	1:B:2457:U:C6	2.48	0.47
1:B:2488:G:H2'	1:B:2489:U:C6	2.49	0.47
1:B:2517:C:C3'	1:B:2518:A:OP1	2.62	0.47
1:B:2536:G:H2'	1:B:2537:U:H6	1.79	0.47
1:B:2605:U:H2'	1:B:2606:C:C6	2.49	0.47
1:B:2690:U:C2	1:B:2690:U:C2'	2.97	0.47
1:B:2732:G:C1'	1:B:2732:G:C8	2.82	0.47
1:B:2793:C:H2'	1:B:2794:C:C6	2.49	0.47
1:B:2832:U:H2'	1:B:2833:U:H6	1.79	0.47
1:B:2862:G:H2'	1:B:2863:C:C6	2.49	0.47
1:B:2874:C:H2'	1:B:2875:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2880:C:H2'	1:B:2881:U:H6	1.80	0.47
1:B:2884:U:N1	1:B:2887:A:C8	2.81	0.47
1:B:2897:U:H2'	1:B:2898:U:C6	2.48	0.47
1:B:25:U:H1'	1:B:26:G:C8	2.49	0.47
1:B:58:G:H2'	1:B:59:U:H6	1.80	0.47
1:B:71:A:C2	1:B:112:U:C2	3.02	0.47
1:B:78:U:H2'	1:B:79:C:C6	2.49	0.47
1:B:81:G:H2'	1:B:82:U:H6	1.79	0.47
1:B:100:U:C5	1:B:118:A:C2'	2.97	0.47
1:B:132:G:H2'	1:B:133:U:H6	1.79	0.47
1:B:142:A:O4'	1:B:1330:C:O2	2.31	0.47
1:B:150:U:H2'	1:B:151:C:C6	2.49	0.47
1:B:153:U:H2'	1:B:154:U:H6	1.79	0.47
1:B:270:A:OP1	1:B:2157:G:OP1	2.33	0.47
1:B:285:G:H2'	1:B:286:U:C6	2.49	0.47
1:B:329:G:N2	1:B:336:C:H41	2.10	0.47
1:B:357:C:H2'	1:B:358:U:C6	2.49	0.47
1:B:376:G:H4'	1:B:403:U:O4	2.15	0.47
1:B:383:C:N4	1:B:387:U:O4	2.40	0.47
1:B:489:G:C8	1:B:490:C:N4	2.83	0.47
1:B:575:A:H2'	1:B:2041:U:O2	2.14	0.47
1:B:610:C:H2'	1:B:611:C:C6	2.49	0.47
1:B:687:C:H2'	1:B:688:U:C6	2.49	0.47
1:B:702:U:H2'	1:B:703:U:C6	2.49	0.47
1:B:719:C:H2'	1:B:720:U:H6	1.79	0.47
1:B:725:G:C1'	1:B:725:G:C8	2.84	0.47
1:B:731:C:H2'	1:B:732:C:C6	2.49	0.47
1:B:834:G:H2'	1:B:835:C:C6	2.49	0.47
1:B:839:U:H2'	1:B:840:C:C6	2.49	0.47
1:B:969:G:H2'	1:B:970:U:H6	1.79	0.47
1:B:997:G:H2'	1:B:998:C:C6	2.49	0.47
1:B:998:C:H2'	1:B:999:U:C6	2.49	0.47
1:B:1022:G:C5'	1:B:1023:U:P	3.02	0.47
1:B:1032:A:C8	1:B:1127:A:C2'	2.97	0.47
1:B:1040:A:C1'	1:B:1116:G:C6	2.96	0.47
1:B:1206:G:H2'	1:B:1207:C:C6	2.49	0.47
1:B:1214:A:H3'	1:B:1214:A:N3	2.29	0.47
1:B:1289:C:H1'	1:B:1648:U:H5'	1.86	0.47
1:B:1292:G:H5"	1:B:1310:G:H1'	1.95	0.47
1:B:1348:C:H42	1:B:1601:G:N2	2.11	0.47
1:B:1372:U:C2	1:B:1372:U:C2'	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1385:A:H2'	1:B:1386:C:C6	2.49	0.47
1:B:1415:U:OP2	1:B:1583:A:C6	2.66	0.47
1:B:1429:G:O2'	1:B:1631:G:OP1	2.21	0.47
1:B:1453:A:N9	1:B:1525:A:O3'	2.47	0.47
1:B:1473:G:H2'	1:B:1474:U:H6	1.79	0.47
1:B:1505:A:H2'	1:B:1506:U:C6	2.49	0.47
1:B:1512:C:H2'	1:B:1513:U:H6	1.80	0.47
1:B:1519:G:H2'	1:B:1520:U:C6	2.49	0.47
1:B:1541:C:H2'	1:B:1542:U:C6	2.48	0.47
1:B:1555:G:H2'	1:B:1556:C:C6	2.49	0.47
1:B:1574:C:H4'	1:B:1631:G:OP1	2.14	0.47
1:B:1638:C:H2'	1:B:1639:C:C6	2.49	0.47
1:B:1643:G:H2'	1:B:1644:C:C6	2.49	0.47
1:B:1656:C:H2'	1:B:1657:U:C6	2.49	0.47
1:B:1657:U:H2'	1:B:1658:C:C6	2.49	0.47
1:B:1661:G:H2'	1:B:1662:U:C6	2.48	0.47
1:B:1673:G:H5'	1:B:1678:A:C5	2.49	0.47
1:B:1682:G:H2'	1:B:1683:U:H6	1.80	0.47
1:B:1708:C:H2'	1:B:1709:U:C6	2.48	0.47
1:B:1726:C:H2'	1:B:1727:C:C6	2.49	0.47
1:B:1772:A:H2'	1:B:1773:A:C1'	2.44	0.47
1:B:1805:A:H2'	1:B:1806:C:C6	2.49	0.47
1:B:1815:A:H2'	1:B:1816:C:O5'	2.13	0.47
1:B:1815:A:C2'	1:B:1817:G:N2	2.72	0.47
1:B:1839:G:C1'	1:B:1839:G:C8	2.81	0.47
1:B:1840:G:H2'	1:B:1841:U:H6	1.80	0.47
1:B:1867:G:H2'	1:B:1868:C:C6	2.49	0.47
1:B:1934:C:P	1:B:1941:C:N1	2.87	0.47
1:B:1948:G:OP1	1:B:1964:G:O3'	2.31	0.47
1:B:1960:A:H2'	1:B:1961:C:C6	2.49	0.47
1:B:1971:U:C4	1:B:2554:U:C2	3.02	0.47
1:B:1973:G:H2'	1:B:1974:C:C6	2.50	0.47
1:B:1994:C:H2'	1:B:1995:U:C6	2.48	0.47
1:B:1999:C:H2'	1:B:2000:C:C6	2.49	0.47
1:B:2009:A:H2'	1:B:2010:G:O4'	2.14	0.47
1:B:2012:G:C1'	1:B:2012:G:C8	2.85	0.47
1:B:2025:C:H2'	1:B:2026:U:H6	1.79	0.47
1:B:2061:G:H1	1:B:2552:U:H5"	1.76	0.47
1:B:2072:C:H2'	1:B:2073:C:C6	2.49	0.47
1:B:2077:A:H2'	1:B:2078:C:H6	1.80	0.47
1:B:2080:A:H2'	1:B:2081:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2090:A:H2'	1:B:2091:C:C6	2.49	0.47
1:B:2148:G:H2'	1:B:2149:U:H6	1.79	0.47
1:B:2159:G:H2'	1:B:2160:C:C6	2.49	0.47
1:B:2257:U:H2'	1:B:2258:C:C6	2.49	0.47
1:B:2262:U:H2'	1:B:2263:C:C6	2.49	0.47
1:B:2284:A:H2'	1:B:2285:C:C6	2.49	0.47
1:B:2290:G:H2'	1:B:2291:U:C6	2.48	0.47
1:B:2345:G:H1'	1:B:2382:G:H1'	0.53	0.47
1:B:2383:G:H2'	1:B:2384:U:C6	2.49	0.47
1:B:2485:G:H2'	1:B:2486:C:C6	2.49	0.47
1:B:2490:G:H2'	1:B:2491:U:H6	1.79	0.47
1:B:2502:G:H2'	1:B:2504:U:OP1	2.14	0.47
1:B:2520:C:H2'	1:B:2521:C:C6	2.49	0.47
1:B:2618:G:H2'	1:B:2619:C:C6	2.50	0.47
1:B:2649:C:H2'	1:B:2650:U:C6	2.48	0.47
1:B:2705:A:C8	1:B:2706:A:N7	2.81	0.47
1:B:2719:G:C5'	1:B:2720:U:H5'	2.41	0.47
1:B:2751:G:C1'	1:B:2751:G:C8	2.85	0.47
1:B:2803:G:H2'	1:B:2804:U:C6	2.49	0.47
1:B:2807:U:C3'	1:B:2890:G:N2	2.76	0.47
1:B:2814:A:H2'	1:B:2815:C:C6	2.49	0.47
1:B:2834:G:C8	1:B:2835:A:C2	3.01	0.47
1:B:2854:G:H2'	1:B:2855:C:H6	1.80	0.47
1:B:2885:G:H4'	1:B:2887:A:O3'	2.11	0.47
1:B:19:A:H2'	1:B:20:C:C6	2.49	0.47
1:B:24:G:H2'	1:B:25:U:C6	2.49	0.47
1:B:40:U:H2'	1:B:41:C:C6	2.49	0.47
1:B:52:A:C5'	1:B:176:A:N3	2.77	0.47
1:B:100:U:C4	1:B:118:A:C2'	2.97	0.47
1:B:152:A:H2'	1:B:153:U:H6	1.80	0.47
1:B:178:G:C1'	1:B:178:G:C8	2.81	0.47
1:B:224:U:H2'	1:B:225:C:H6	1.79	0.47
1:B:238:C:H2'	1:B:239:C:C6	2.49	0.47
1:B:289:G:H2'	1:B:290:U:C6	2.49	0.47
1:B:301:G:H2'	1:B:302:C:C6	2.50	0.47
1:B:342:A:H2'	1:B:343:C:H6	1.80	0.47
1:B:354:A:H2'	1:B:355:U:H6	1.79	0.47
1:B:356:G:H2'	1:B:357:C:C6	2.49	0.47
1:B:362:A:H5'	1:B:428:A:H3'	1.97	0.47
1:B:365:U:H2'	1:B:366:C:C6	2.49	0.47
1:B:415:A:H2'	1:B:416:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:U:N1	1:B:460:A:O5'	2.46	0.47
1:B:457:A:H2	1:B:458:G:C3'	2.07	0.47
1:B:489:G:OP2	1:B:489:G:N2	2.45	0.47
1:B:520:G:H2'	1:B:521:U:H6	1.79	0.47
1:B:522:A:H2'	1:B:523:C:C6	2.49	0.47
1:B:533:G:H2'	1:B:534:U:C6	2.49	0.47
1:B:533:G:H2'	1:B:534:U:H6	1.80	0.47
1:B:666:A:H2'	1:B:667:U:H6	1.80	0.47
1:B:690:G:H2'	1:B:691:C:C6	2.50	0.47
1:B:735:A:O4'	1:B:736:C:C5	2.67	0.47
1:B:740:C:H2'	1:B:741:U:H6	1.79	0.47
1:B:753:A:H2'	1:B:754:U:H6	1.80	0.47
1:B:765:C:H2'	1:B:766:U:H6	1.80	0.47
1:B:846:U:C4'	1:B:846:U:H5'	2.20	0.47
1:B:852:U:H2'	1:B:853:C:C6	2.49	0.47
1:B:893:C:H2'	1:B:894:U:H6	1.80	0.47
1:B:1009:A:H1'	1:B:1011:G:C1'	2.44	0.47
1:B:1042:G:H2'	1:B:1043:C:C6	2.49	0.47
1:B:1157:G:H2'	1:B:1158:C:C6	2.49	0.47
1:B:1180:U:H2'	1:B:1181:U:H6	1.80	0.47
1:B:1200:C:H2'	1:B:1201:U:H6	1.80	0.47
1:B:1225:G:O3'	1:B:1226:A:C8	2.53	0.47
1:B:1277:G:H2'	1:B:1278:C:C6	2.49	0.47
1:B:1286:A:C6	1:B:1287:A:N6	2.74	0.47
1:B:1293:C:H2'	1:B:1294:U:C6	2.48	0.47
1:B:1315:C:H2'	1:B:1316:U:H6	1.79	0.47
1:B:1486:U:H2'	1:B:1487:U:H6	1.80	0.47
1:B:1563:U:H2'	1:B:1564:C:C6	2.49	0.47
1:B:1597:A:OP2	1:B:1598:A:C3'	2.63	0.47
1:B:1637:A:H2'	1:B:1638:C:C6	2.49	0.47
1:B:1678:A:C2'	1:B:1685:C:H41	2.26	0.47
1:B:1718:G:C3'	1:B:1720:U:C6	2.98	0.47
1:B:1724:G:H2'	1:B:1725:U:H6	1.80	0.47
1:B:1735:A:OP2	1:B:1739:A:C8	2.67	0.47
1:B:1778:U:H2'	1:B:1779:U:H6	1.80	0.47
1:B:1853:A:C8	1:B:1888:G:N7	2.82	0.47
1:B:1856:U:O3'	1:B:1886:U:C1'	2.63	0.47
1:B:1892:C:H2'	1:B:1893:C:C6	2.49	0.47
1:B:1935:G:O3'	1:B:1935:G:H4'	2.13	0.47
1:B:1950:G:C2	1:B:1951:U:H2'	2.49	0.47
1:B:1971:U:C5'	1:B:1973:G:OP2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1971:U:O3'	1:B:2443:C:P	2.73	0.47
1:B:1998:A:H2'	1:B:1999:C:C6	2.50	0.47
1:B:2038:G:H2'	1:B:2039:U:C6	2.48	0.47
1:B:2038:G:H2'	1:B:2039:U:H6	1.79	0.47
1:B:2063:C:H2'	1:B:2064:C:C6	2.49	0.47
1:B:2064:C:H2'	1:B:2065:C:H6	1.79	0.47
1:B:2084:C:H2'	1:B:2085:U:C6	2.48	0.47
1:B:2097:A:H2'	1:B:2098:U:C6	2.48	0.47
1:B:2102:G:H2'	1:B:2103:C:C6	2.49	0.47
1:B:2114:A:C8	1:B:2118:U:C2	3.02	0.47
1:B:2143:C:H2'	1:B:2145:C:N3	2.29	0.47
1:B:2152:G:H2'	1:B:2153:C:H6	1.80	0.47
1:B:2188:U:H2'	1:B:2189:U:C6	2.49	0.47
1:B:2219:U:H2'	1:B:2220:U:H6	1.79	0.47
1:B:2239:G:H2'	1:B:2240:U:H6	1.79	0.47
1:B:2275:C:H5"	1:B:2426:A:HO2'	1.78	0.47
1:B:2291:U:H2'	1:B:2292:U:H6	1.79	0.47
1:B:2312:U:H2'	1:B:2313:C:C6	2.49	0.47
1:B:2327:A:C3'	1:B:2328:A:P	3.00	0.47
1:B:2367:G:H2'	1:B:2368:C:C6	2.49	0.47
1:B:2465:C:H2'	1:B:2466:C:C6	2.49	0.47
1:B:2510:C:H2'	1:B:2511:U:C6	2.49	0.47
1:B:2514:U:H2'	1:B:2515:C:C6	2.49	0.47
1:B:2526:G:H2'	1:B:2527:C:C6	2.49	0.47
1:B:2567:G:H2'	1:B:2568:U:H6	1.79	0.47
1:B:2590:A:H2'	1:B:2591:C:H6	1.80	0.47
1:B:2604:U:H2'	1:B:2605:U:C6	2.49	0.47
1:B:2621:G:H2'	1:B:2622:U:H6	1.79	0.47
1:B:2627:G:C1'	1:B:2627:G:C8	2.81	0.47
1:B:2656:U:O4	1:B:2664:G:C4	2.68	0.47
1:B:2686:G:C1'	1:B:2686:G:C8	2.81	0.47
1:B:2731:G:C2'	1:B:2732:G:OP2	2.62	0.47
1:B:2733:A:C3'	1:B:2770:G:H22	2.26	0.47
1:B:2749:A:O2'	1:B:2750:A:OP1	2.33	0.47
1:B:2804:U:H2'	1:B:2805:C:C6	2.49	0.47
1:B:2897:U:H2'	1:B:2898:U:H6	1.79	0.47
1:B:2900:A:H2'	1:B:2901:C:C6	2.49	0.47
1:B:21:A:H2'	1:B:22:C:H6	1.80	0.47
1:B:50:U:HO2'	1:B:151:C:H5"	1.67	0.47
1:B:59:U:O2	1:B:64:A:H5"	2.14	0.47
1:B:82:U:O3'	1:B:84:A:C2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:A:P	1:B:84:A:N3	2.88	0.47
1:B:94:A:C4'	1:B:94:A:O3'	2.57	0.47
1:B:102:U:H5"	1:B:103:A:OP2	2.13	0.47
1:B:136:G:H2'	1:B:137:U:H6	1.79	0.47
1:B:179:C:C2'	1:B:197:A:P	3.01	0.47
1:B:180:G:N7	1:B:198:C:C5'	2.78	0.47
1:B:266:G:C5'	1:B:368:A:C4'	2.85	0.47
1:B:283:G:H2'	1:B:284:U:C6	2.48	0.47
1:B:357:C:H2'	1:B:358:U:H6	1.80	0.47
1:B:393:C:H2'	1:B:394:C:C6	2.49	0.47
1:B:394:C:H2'	1:B:395:U:H6	1.80	0.47
1:B:417:C:H2'	1:B:418:C:C6	2.49	0.47
1:B:457:A:N6	1:B:658:U:OP1	2.26	0.47
1:B:461:C:H2'	1:B:462:C:C6	2.50	0.47
1:B:474:G:H2'	1:B:475:C:C6	2.49	0.47
1:B:510:C:C5'	1:B:511:U:C6	2.86	0.47
1:B:529:A:H8	1:B:973:A:H4'	1.74	0.47
1:B:536:G:C2'	1:B:537:G:O5'	2.62	0.47
1:B:549:G:H2'	1:B:550:C:C6	2.49	0.47
1:B:553:G:H2'	1:B:554:U:C6	2.49	0.47
1:B:595:C:H2'	1:B:596:U:H6	1.79	0.47
1:B:605:G:H2'	1:B:606:U:C6	2.48	0.47
1:B:606:U:H2'	1:B:607:U:H6	1.79	0.47
1:B:656:G:H2'	1:B:657:U:H6	1.79	0.47
1:B:702:U:H2'	1:B:703:U:H6	1.80	0.47
1:B:811:U:C3'	1:B:812:C:H5'	2.42	0.47
1:B:823:C:H2'	1:B:824:U:C6	2.49	0.47
1:B:851:C:H2'	1:B:852:U:H6	1.79	0.47
1:B:862:G:H2'	1:B:863:A:C4'	2.31	0.47
1:B:869:G:H2'	1:B:870:U:H6	1.80	0.47
1:B:872:U:H2'	1:B:873:C:C6	2.49	0.47
1:B:928:A:H2'	1:B:929:U:H6	1.80	0.47
1:B:1118:C:H2'	1:B:1119:U:H6	1.80	0.47
1:B:1228:G:H2'	1:B:1229:C:C6	2.49	0.47
1:B:1239:G:H2'	1:B:1240:U:H6	1.80	0.47
1:B:1293:C:H2'	1:B:1294:U:H6	1.79	0.47
1:B:1296:G:H2'	1:B:1297:C:C6	2.49	0.47
1:B:1343:G:H2'	1:B:1344:U:H6	1.79	0.47
1:B:1398:C:H2'	1:B:1399:C:H6	1.80	0.47
1:B:1413:A:H2'	1:B:1414:C:C6	2.49	0.47
1:B:1459:G:C6	1:B:1544:A:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1477:A:OP1	1:B:1516:G:H8	1.97	0.47
1:B:1477:A:C2'	1:B:1478:G:OP1	2.62	0.47
1:B:1485:U:H2'	1:B:1486:U:H6	1.79	0.47
1:B:1519:G:H2'	1:B:1520:U:H6	1.79	0.47
1:B:1551:A:OP2	1:B:1552:A:H1'	2.14	0.47
1:B:1594:U:H2'	1:B:1595:C:C6	2.49	0.47
1:B:1661:G:H2'	1:B:1662:U:H6	1.79	0.47
1:B:1703:G:H2'	1:B:1704:C:H6	1.80	0.47
1:B:1708:C:H2'	1:B:1709:U:H6	1.79	0.47
1:B:1719:G:O2'	1:B:1722:A:C5'	2.61	0.47
1:B:1741:C:H2'	1:B:1742:U:H6	1.79	0.47
1:B:1750:G:H2'	1:B:1751:U:H6	1.80	0.47
1:B:1791:A:C2	1:B:1930:G:P	3.08	0.47
1:B:1826:G:H2'	1:B:1827:U:H6	1.79	0.47
1:B:1827:U:C4	1:B:1829:A:OP2	2.67	0.47
1:B:1832:C:H2'	1:B:1833:C:C6	2.49	0.47
1:B:1846:G:OP1	1:B:2232:C:C1'	2.57	0.47
1:B:1946:U:H2'	1:B:1947:C:H6	1.80	0.47
1:B:1972:G:P	1:B:2443:C:H5	2.30	0.47
1:B:1999:C:H2'	1:B:2000:C:H6	1.80	0.47
1:B:2049:G:H2'	1:B:2050:C:C6	2.49	0.47
1:B:2084:C:H2'	1:B:2085:U:H6	1.79	0.47
1:B:2104:C:H42	1:B:2180:U:H4'	1.79	0.47
1:B:2105:U:H2'	1:B:2106:U:H6	1.79	0.47
1:B:2169:A:C2'	1:B:2170:A:C5'	2.89	0.47
1:B:2174:C:H2'	1:B:2175:C:C6	2.49	0.47
1:B:2186:G:H2'	1:B:2187:U:H6	1.80	0.47
1:B:2235:G:H2'	1:B:2236:U:C6	2.48	0.47
1:B:2242:G:H2'	1:B:2243:U:H6	1.79	0.47
1:B:2248:C:H2'	1:B:2249:U:H6	1.80	0.47
1:B:2290:G:H2'	1:B:2291:U:H6	1.79	0.47
1:B:2312:U:H2'	1:B:2313:C:H6	1.80	0.47
1:B:2320:U:C2'	1:B:2321:U:H5'	2.44	0.47
1:B:2325:G:H5"	1:B:2327:A:C1'	2.44	0.47
1:B:2343:U:H2'	1:B:2344:U:C6	2.49	0.47
1:B:2353:G:H2'	1:B:2354:C:C6	2.49	0.47
1:B:2401:U:H2'	1:B:2402:U:H6	1.79	0.47
1:B:2415:G:H2'	1:B:2416:C:C6	2.49	0.47
1:B:2438:U:H2'	1:B:2439:A:O5'	2.13	0.47
1:B:2456:C:H2'	1:B:2457:U:H6	1.80	0.47
1:B:2509:G:H2'	1:B:2510:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2511:U:H2'	1:B:2512:C:C6	2.49	0.47
1:B:2519:U:H2'	1:B:2520:C:C6	2.49	0.47
1:B:2571:U:H2'	1:B:2572:A:OP1	2.15	0.47
1:B:2578:G:H2'	1:B:2579:C:H6	1.80	0.47
1:B:2650:U:H2'	1:B:2651:C:C6	2.49	0.47
1:B:2682:A:H5'	1:B:2683:C:H41	1.73	0.47
1:B:2726:A:C4'	1:B:2727:A:H4'	2.38	0.47
1:B:2744:G:H2'	1:B:2745:C:C6	2.49	0.47
1:B:2772:C:H2'	1:B:2773:C:C6	2.49	0.47
1:B:2782:G:H2'	1:B:2783:U:H6	1.79	0.47
1:B:2783:U:H2'	1:B:2784:U:C6	2.48	0.47
1:B:2784:U:H2'	1:B:2785:C:H6	1.80	0.47
1:B:2785:C:H2'	1:B:2786:U:H6	1.79	0.47
1:B:2795:C:H2'	1:B:2796:U:H6	1.79	0.47
1:B:96:C:H2'	1:B:97:C:C6	2.50	0.47
1:B:105:C:H2'	1:B:106:C:C6	2.49	0.47
1:B:115:C:H2'	1:B:116:C:C6	2.50	0.47
1:B:156:A:H2'	1:B:157:C:H6	1.80	0.47
1:B:205:G:H2'	1:B:206:U:H6	1.79	0.47
1:B:209:C:H2'	1:B:210:C:H6	1.80	0.47
1:B:210:C:O2'	1:B:217:A:C6	2.62	0.47
1:B:214:G:H8	1:B:219:A:N9	2.11	0.47
1:B:215:G:H3'	1:B:256:A:H3'	1.97	0.47
1:B:221:A:N7	1:B:223:A:H8	2.04	0.47
1:B:228:C:OP2	1:B:229:C:N4	2.47	0.47
1:B:267:C:H2'	1:B:268:C:H6	1.80	0.47
1:B:283:G:H2'	1:B:284:U:H6	1.79	0.47
1:B:285:G:H2'	1:B:286:U:H6	1.80	0.47
1:B:287:G:H2'	1:B:288:U:H6	1.80	0.47
1:B:313:G:H2'	1:B:314:C:H6	1.80	0.47
1:B:352:A:H2'	1:B:353:C:H6	1.79	0.47
1:B:370:G:H2'	1:B:372:G:P	2.54	0.47
1:B:418:C:H2'	1:B:419:U:H6	1.79	0.47
1:B:419:U:H2'	1:B:420:C:H6	1.80	0.47
1:B:446:G:N2	1:B:480:A:H5"	2.30	0.47
1:B:451:U:O2	1:B:451:U:C2'	2.61	0.47
1:B:484:C:H2'	1:B:485:C:C6	2.49	0.47
1:B:529:A:O5'	1:B:530:G:N7	2.47	0.47
1:B:585:G:H3'	1:B:1195:G:O2'	2.14	0.47
1:B:622:G:H2'	1:B:623:C:H6	1.80	0.47
1:B:754:U:H2'	1:B:755:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:757:G:O2'	1:B:758:C:C5'	2.58	0.47
1:B:805:G:N2	1:B:1251:C:C4'	2.74	0.47
1:B:852:U:H2'	1:B:853:C:H6	1.80	0.47
1:B:861:A:C1'	1:B:863:A:C2	2.97	0.47
1:B:892:A:H2'	1:B:893:C:C6	2.49	0.47
1:B:894:U:H2'	1:B:895:U:H6	1.79	0.47
1:B:986:C:H2'	1:B:987:C:C6	2.49	0.47
1:B:1021:A:N3	1:B:1022:G:OP2	2.46	0.47
1:B:1177:G:H2'	1:B:1178:C:H6	1.80	0.47
1:B:1199:U:H2'	1:B:1200:C:H6	1.80	0.47
1:B:1221:C:H2'	1:B:1222:U:H6	1.79	0.47
1:B:1232:G:H2'	1:B:1233:C:C6	2.49	0.47
1:B:1233:C:H2'	1:B:1234:U:C6	2.49	0.47
1:B:1297:C:H2'	1:B:1298:C:C6	2.49	0.47
1:B:1304:A:H2'	1:B:1305:C:C6	2.49	0.47
1:B:1305:C:H2'	1:B:1306:C:C6	2.49	0.47
1:B:1318:U:H2'	1:B:1319:C:C6	2.49	0.47
1:B:1411:U:H2'	1:B:1412:U:C6	2.49	0.47
1:B:1413:A:H2'	1:B:1414:C:H6	1.80	0.47
1:B:1424:G:O2'	1:B:1565:C:C6	2.66	0.47
1:B:1454:C:O5'	1:B:1524:G:H5"	2.13	0.47
1:B:1498:C:H2'	1:B:1499:C:H6	1.80	0.47
1:B:1532:A:H2'	1:B:1533:C:C6	2.49	0.47
1:B:1551:A:N6	1:B:1553:A:C5'	2.78	0.47
1:B:1611:C:H2'	1:B:1612:C:H6	1.80	0.47
1:B:1720:U:H3'	1:B:1721:G:H5"	1.95	0.47
1:B:1722:A:OP1	1:B:1739:A:H2'	2.15	0.47
1:B:1779:U:H3'	1:B:1780:A:C5'	2.44	0.47
1:B:1794:A:H2'	1:B:1795:C:H6	1.80	0.47
1:B:1813:G:C6	1:B:1814:G:H8	2.26	0.47
1:B:1843:C:H2'	1:B:1844:C:C6	2.49	0.47
1:B:1867:G:H2'	1:B:1868:C:H6	1.80	0.47
1:B:1873:G:H2'	1:B:1874:C:C6	2.50	0.47
1:B:1880:U:H2'	1:B:1881:C:C6	2.49	0.47
1:B:1905:C:O2	1:B:1928:A:H8	1.97	0.47
1:B:1946:U:H2'	1:B:1947:C:C6	2.49	0.47
1:B:1957:C:H2'	1:B:1958:C:C6	2.49	0.47
1:B:1992:G:C5'	1:B:1993:U:O4'	2.62	0.47
1:B:1994:C:H2'	1:B:1995:U:H6	1.79	0.47
1:B:2000:C:H2'	1:B:2001:C:H6	1.80	0.47
1:B:2043:C:H2'	1:B:2044:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2065:C:H2'	1:B:2066:C:C6	2.49	0.47
1:B:2065:C:H2'	1:B:2066:C:H6	1.80	0.47
1:B:2095:A:H2'	1:B:2096:C:H6	1.80	0.47
1:B:2152:G:H2'	1:B:2153:C:C6	2.49	0.47
1:B:2206:C:H2'	1:B:2207:C:C6	2.49	0.47
1:B:2218:G:H2'	1:B:2219:U:H6	1.79	0.47
1:B:2239:G:H2'	1:B:2240:U:C6	2.48	0.47
1:B:2247:A:H2'	1:B:2248:C:H6	1.80	0.47
1:B:2260:C:H2'	1:B:2261:C:C6	2.49	0.47
1:B:2283:C:O2'	1:B:2284:A:OP1	2.28	0.47
1:B:2300:C:H2'	1:B:2301:C:H6	1.80	0.47
1:B:2301:C:H2'	1:B:2302:U:C6	2.48	0.47
1:B:2349:G:H2'	1:B:2350:C:C6	2.49	0.47
1:B:2363:G:H2'	1:B:2364:C:C6	2.49	0.47
1:B:2397:G:H2'	1:B:2398:U:C6	2.48	0.47
1:B:2428:G:C1'	1:B:2428:G:C8	2.80	0.47
1:B:2459:A:H2'	1:B:2460:U:H6	1.79	0.47
1:B:2464:G:H2'	1:B:2465:C:C6	2.49	0.47
1:B:2488:G:H2'	1:B:2489:U:H6	1.79	0.47
1:B:2529:G:C1'	1:B:2529:G:C8	2.81	0.47
1:B:2550:G:H2'	1:B:2551:C:C6	2.49	0.47
1:B:2550:G:H2'	1:B:2551:C:H6	1.80	0.47
1:B:2698:U:H2'	1:B:2699:C:C6	2.49	0.47
1:B:2722:G:C1'	1:B:2722:G:C8	2.81	0.47
1:B:2742:G:H2'	1:B:2743:U:H6	1.79	0.47
1:B:2745:C:H2'	1:B:2746:U:H6	1.79	0.47
1:B:2754:U:O2'	1:B:2755:C:H5'	2.15	0.47
1:B:2789:C:H42	1:B:2887:A:N6	2.09	0.47
1:B:2817:U:H2'	1:B:2818:U:C6	2.49	0.47
1:B:7:G:H2'	1:B:8:C:C6	2.49	0.47
1:B:10:A:C2	1:B:525:U:O5'	2.68	0.47
1:B:19:A:P	1:B:669:G:N7	2.88	0.47
1:B:52:A:H1'	1:B:117:G:N2	2.29	0.47
1:B:71:A:N6	1:B:106:C:C5	2.82	0.47
1:B:76:C:OP2	1:B:100:U:C4'	2.63	0.47
1:B:86:G:H2'	1:B:87:U:H6	1.80	0.47
1:B:112:U:H2'	1:B:119:A:N9	2.30	0.47
1:B:128:C:H2'	1:B:129:C:C6	2.49	0.47
1:B:156:A:H2'	1:B:157:C:C6	2.49	0.47
1:B:159:G:C3'	1:B:160:A:H5'	2.43	0.47
1:B:179:C:HO2'	1:B:197:A:P	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:200:U:H2'	1:B:201:C:H6	1.80	0.47
1:B:206:U:H3'	1:B:207:A:C5'	2.43	0.47
1:B:210:C:H2'	1:B:211:C:H6	1.80	0.47
1:B:232:G:P	1:B:234:U:O4'	2.73	0.47
1:B:236:C:H2'	1:B:237:C:C6	2.49	0.47
1:B:242:G:O5'	1:B:254:G:C5	2.68	0.47
1:B:267:C:H2'	1:B:268:C:C6	2.49	0.47
1:B:269:C:O2	1:B:269:C:O3'	2.32	0.47
1:B:270:A:C4'	1:B:426:C:O2'	2.62	0.47
1:B:287:G:H2'	1:B:288:U:C6	2.49	0.47
1:B:289:G:H2'	1:B:290:U:H6	1.79	0.47
1:B:350:G:H2'	1:B:351:C:C6	2.49	0.47
1:B:374:A:H5"	1:B:375:G:C4'	2.45	0.47
1:B:377:G:H2'	1:B:378:C:C6	2.49	0.47
1:B:398:C:H2'	1:B:399:U:H6	1.80	0.47
1:B:413:C:H2'	1:B:414:C:H6	1.80	0.47
1:B:425:G:H2'	1:B:426:C:H6	1.80	0.47
1:B:444:C:H2'	1:B:445:C:C6	2.49	0.47
1:B:452:G:N7	1:B:479:A:H5'	2.30	0.47
1:B:478:A:O2'	1:B:479:A:P	2.73	0.47
1:B:484:C:H2'	1:B:485:C:H6	1.80	0.47
1:B:507:A:C2'	1:B:518:G:C1'	2.78	0.47
1:B:512:G:C2	1:B:514:A:OP2	2.67	0.47
1:B:541:A:H2'	1:B:542:C:H6	1.80	0.47
1:B:543:G:H2'	1:B:544:C:C6	2.49	0.47
1:B:559:G:H2'	1:B:560:C:C6	2.49	0.47
1:B:574:A:C5	1:B:2039:U:OP1	2.68	0.47
1:B:574:A:C5	1:B:2041:U:O3'	2.68	0.47
1:B:594:U:H2'	1:B:595:C:H6	1.80	0.47
1:B:597:G:H2'	1:B:598:U:C6	2.49	0.47
1:B:612:G:O6	1:B:616:A:H2	1.98	0.47
1:B:622:G:H2'	1:B:623:C:C6	2.49	0.47
1:B:623:C:H2'	1:B:624:C:H6	1.80	0.47
1:B:634:C:H2'	1:B:635:C:H6	1.80	0.47
1:B:646:U:C3'	1:B:647:G:C5'	2.44	0.47
1:B:659:G:H2'	1:B:660:C:C6	2.49	0.47
1:B:666:A:H2'	1:B:667:U:C6	2.49	0.47
1:B:671:C:H2'	1:B:672:C:C6	2.49	0.47
1:B:709:U:H2'	1:B:710:U:H6	1.79	0.47
1:B:743:A:H2'	1:B:744:U:H6	1.80	0.47
1:B:764:A:C6	1:B:1948:G:N3	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:768:G:H2'	1:B:769:U:H6	1.79	0.47
1:B:772:C:O2'	1:B:784:G:N2	2.48	0.47
1:B:773:U:C4'	1:B:780:G:N2	2.69	0.47
1:B:802:A:C2'	1:B:1254:A:C5'	2.93	0.47
1:B:806:C:C5'	1:B:807:U:OP2	2.63	0.47
1:B:812:C:H2'	1:B:813:U:H6	1.79	0.47
1:B:816:C:H2'	1:B:817:C:C6	2.49	0.47
1:B:822:G:H2'	1:B:823:C:H6	1.80	0.47
1:B:839:U:H2'	1:B:840:C:H6	1.80	0.47
1:B:853:C:H2'	1:B:854:C:C6	2.49	0.47
1:B:872:U:H2'	1:B:873:C:H6	1.80	0.47
1:B:950:G:H2'	1:B:951:C:C6	2.49	0.47
1:B:950:G:H2'	1:B:951:C:H6	1.80	0.47
1:B:967:U:H2'	1:B:968:C:C6	2.49	0.47
1:B:991:C:H2'	1:B:992:C:C6	2.49	0.47
1:B:993:G:H2'	1:B:994:C:C6	2.49	0.47
1:B:1017:G:H2'	1:B:1018:U:H6	1.80	0.47
1:B:1021:A:HO2'	1:B:1133:A:N6	2.13	0.47
1:B:1028:A:C1'	1:B:1144:A:N3	2.76	0.47
1:B:1033:U:C2'	1:B:1034:G:O5'	2.61	0.47
1:B:1048:A:P	1:B:1102:C:OP1	2.72	0.47
1:B:1050:A:C5'	1:B:1051:G:P	3.02	0.47
1:B:1056:G:N2	1:B:1102:C:C5	2.83	0.47
1:B:1116:G:O5'	1:B:2749:A:C3'	2.56	0.47
1:B:1136:G:O2'	1:B:1137:G:C4'	2.62	0.47
1:B:1145:C:H2'	1:B:1146:C:C6	2.49	0.47
1:B:1152:C:H2'	1:B:1153:C:H6	1.80	0.47
1:B:1169:A:H2'	1:B:1170:C:C6	2.49	0.47
1:B:1171:G:H2'	1:B:1172:C:C6	2.49	0.47
1:B:1171:G:H2'	1:B:1172:C:H6	1.80	0.47
1:B:1199:U:H2'	1:B:1200:C:C6	2.49	0.47
1:B:1207:C:H2'	1:B:1208:C:H6	1.80	0.47
1:B:1220:G:H2'	1:B:1221:C:C6	2.49	0.47
1:B:1232:G:H2'	1:B:1233:C:H6	1.80	0.47
1:B:1240:U:O5'	1:B:1241:A:C5'	2.63	0.47
1:B:1253:A:H4'	1:B:1254:A:O4'	2.15	0.47
1:B:1289:C:H2'	1:B:1290:C:C6	2.49	0.47
1:B:1295:C:N4	1:B:1311:G:O6	2.47	0.47
1:B:1307:A:C5'	1:B:1308:A:H4'	2.45	0.47
1:B:1354:A:OP1	1:B:1354:A:H8	1.96	0.47
1:B:1369:G:H2'	1:B:1370:C:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1399:C:H2'	1:B:1400:U:H6	1.79	0.47
1:B:1427:A:C6	1:B:1574:C:N1	2.82	0.47
1:B:1428:C:O3'	1:B:1428:C:C2'	2.53	0.47
1:B:1430:C:HO2'	1:B:1566:A:H61	1.56	0.47
1:B:1446:C:H2'	1:B:1447:C:C6	2.49	0.47
1:B:1451:C:C4'	1:B:1451:C:H5'	2.20	0.47
1:B:1451:C:C5'	1:B:1526:C:C2	2.98	0.47
1:B:1461:C:H2'	1:B:1462:C:C6	2.49	0.47
1:B:1471:G:H2'	1:B:1472:C:H6	1.80	0.47
1:B:1479:G:H2'	1:B:1480:C:H6	1.80	0.47
1:B:1488:C:H2'	1:B:1489:C:C6	2.49	0.47
1:B:1506:U:H2'	1:B:1507:C:C6	2.49	0.47
1:B:1540:G:H2'	1:B:1541:C:H6	1.80	0.47
1:B:1545:A:O2'	1:B:1546:G:N3	2.43	0.47
1:B:1549:A:H2'	1:B:1550:C:C6	2.49	0.47
1:B:1552:A:C2	1:B:1555:G:OP1	2.68	0.47
1:B:1563:U:H2'	1:B:1564:C:H6	1.80	0.47
1:B:1568:G:C4'	1:B:1568:G:H5"	2.19	0.47
1:B:1568:G:H4'	1:B:1570:A:OP1	2.14	0.47
1:B:1570:A:N6	1:B:1572:A:C5	2.83	0.47
1:B:1591:A:H2'	1:B:1592:C:C6	2.50	0.47
1:B:1599:U:H2'	1:B:1600:C:H6	1.80	0.47
1:B:1653:G:C1'	1:B:1653:G:C8	2.81	0.47
1:B:1654:A:C4	1:B:1655:A:C2	3.03	0.47
1:B:1697:G:P	1:B:2703:C:H5	2.36	0.47
1:B:1703:G:H2'	1:B:1704:C:C6	2.49	0.47
1:B:1722:A:H1'	1:B:1740:G:C6	2.50	0.47
1:B:1726:C:H2'	1:B:1727:C:H6	1.80	0.47
1:B:1776:G:H2'	1:B:1777:U:C6	2.49	0.47
1:B:1792:G:H2'	1:B:1793:C:H6	1.80	0.47
1:B:1797:G:H2'	1:B:1798:U:H6	1.80	0.47
1:B:1831:G:H2'	1:B:1832:C:H6	1.80	0.47
1:B:1831:G:H2'	1:B:1832:C:C6	2.49	0.47
1:B:1836:C:H2'	1:B:1837:C:C6	2.49	0.47
1:B:1853:A:C3'	1:B:1888:G:C1'	2.91	0.47
1:B:1854:A:N6	1:B:1859:U:HO2'	2.13	0.47
1:B:1865:U:H3'	1:B:1866:A:OP2	2.14	0.47
1:B:1870:C:C2	1:B:1871:A:C8	3.01	0.47
1:B:1878:G:H2'	1:B:1879:C:C6	2.50	0.47
1:B:1901:A:H2'	1:B:1902:C:C6	2.49	0.47
1:B:1904:G:H2'	1:B:1905:C:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1905:C:C4'	1:B:1928:A:P	3.02	0.47
1:B:1907:G:H2'	1:B:1908:C:H6	1.80	0.47
1:B:1923:U:H2'	1:B:1924:C:C6	2.49	0.47
1:B:1953:A:C2'	1:B:1955:U:O2	2.63	0.47
1:B:1956:U:H2'	1:B:1957:C:C6	2.49	0.47
1:B:1956:U:H2'	1:B:1957:C:H6	1.80	0.47
1:B:1963:U:C2'	1:B:1964:G:H5"	2.44	0.47
1:B:1984:G:H2'	1:B:1985:C:C6	2.49	0.47
1:B:2006:C:H2'	1:B:2007:U:C6	2.48	0.47
1:B:2046:G:H2'	1:B:2047:C:C6	2.49	0.47
1:B:2051:A:C8	1:B:2609:U:P	3.08	0.47
1:B:2052:A:C5'	1:B:2608:G:O5'	2.63	0.47
1:B:2102:G:H2'	1:B:2103:C:H6	1.80	0.47
1:B:2121:G:H2'	1:B:2122:U:H6	1.80	0.47
1:B:2131:U:N3	1:B:2156:G:O3'	2.48	0.47
1:B:2136:G:H2'	1:B:2137:U:H6	1.79	0.47
1:B:2160:C:H2'	1:B:2161:C:C6	2.49	0.47
1:B:2193:G:H2'	1:B:2194:U:H6	1.79	0.47
1:B:2230:G:H2'	1:B:2231:U:C6	2.49	0.47
1:B:2230:G:H2'	1:B:2231:U:H6	1.80	0.47
1:B:2243:U:C2'	1:B:2244:U:O5'	2.62	0.47
1:B:2265:U:O2	1:B:2267:A:C3'	2.63	0.47
1:B:2301:C:H2'	1:B:2302:U:H6	1.79	0.47
1:B:2331:G:H2'	1:B:2332:C:H6	1.80	0.47
1:B:2345:G:O5'	1:B:2381:A:C6	2.67	0.47
1:B:2353:G:H2'	1:B:2354:C:H6	1.80	0.47
1:B:2360:G:HO2'	1:B:2361:G:C5'	2.26	0.47
1:B:2379:G:H2'	1:B:2380:C:C6	2.49	0.47
1:B:2386:A:H2'	1:B:2387:U:H6	1.79	0.47
1:B:2400:G:H2'	1:B:2401:U:H6	1.79	0.47
1:B:2403:C:H2'	1:B:2404:U:H6	1.80	0.47
1:B:2437:G:H2'	1:B:2438:U:C6	2.49	0.47
1:B:2437:G:H2'	1:B:2438:U:H6	1.79	0.47
1:B:2489:U:OP1	1:B:2501:C:C2	2.67	0.47
1:B:2495:G:H2'	1:B:2496:C:H6	1.80	0.47
1:B:2505:G:C3'	1:B:2506:U:P	3.03	0.47
1:B:2511:U:H2'	1:B:2512:C:H6	1.80	0.47
1:B:2516:A:H2'	1:B:2517:C:H6	1.80	0.47
1:B:2518:A:H2'	1:B:2519:U:H6	1.80	0.47
1:B:2529:G:N2	1:B:2532:G:H8	2.06	0.47
1:B:2545:G:H2'	1:B:2546:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2547:A:H2'	1:B:2548:U:H6	1.80	0.47
1:B:2558:C:H2'	1:B:2559:C:H6	1.80	0.47
1:B:2579:C:H2'	1:B:2580:U:H6	1.79	0.47
1:B:2592:G:H2'	1:B:2593:U:C6	2.49	0.47
1:B:2611:C:H2'	1:B:2612:C:C6	2.50	0.47
1:B:2615:U:H2'	1:B:2616:C:H6	1.80	0.47
1:B:2619:C:H2'	1:B:2620:C:C6	2.49	0.47
1:B:2654:A:OP1	1:B:2654:A:C8	2.63	0.47
1:B:2682:A:N7	1:B:2688:G:O2'	2.37	0.47
1:B:2714:G:OP2	1:B:2726:A:N6	2.48	0.47
1:B:2715:C:H2'	1:B:2716:C:H6	1.80	0.47
1:B:2733:A:H1'	1:B:2777:G:H22	1.80	0.47
1:B:2762:C:C4'	1:B:2763:G:O5'	2.59	0.47
1:B:2768:U:H2'	1:B:2769:U:H6	1.79	0.47
1:B:2794:C:H2'	1:B:2795:C:C6	2.49	0.47
1:B:2817:U:H2'	1:B:2818:U:H6	1.79	0.47
1:B:2862:G:H2'	1:B:2863:C:H6	1.80	0.47
1:B:2864:G:H2'	1:B:2865:U:H6	1.79	0.47
1:B:2869:G:H2'	1:B:2870:C:O4'	2.15	0.47
1:B:2874:C:H2'	1:B:2875:C:H6	1.80	0.47
1:B:28:A:C4	1:B:674:G:C5'	2.96	0.47
1:B:34:U:OP1	1:B:793:A:O2'	2.31	0.47
1:B:63:A:C2	1:B:86:G:H5'	2.50	0.47
1:B:64:A:O2'	1:B:65:U:H5	1.84	0.47
1:B:74:A:C6	1:B:106:C:H5"	2.49	0.47
1:B:128:C:H2'	1:B:129:C:H6	1.80	0.47
1:B:144:A:H2'	1:B:145:C:H6	1.80	0.47
1:B:234:U:H2'	1:B:235:U:H6	1.79	0.47
1:B:237:C:H2'	1:B:238:C:C6	2.49	0.47
1:B:237:C:H2'	1:B:238:C:H6	1.80	0.47
1:B:239:C:P	1:B:240:C:H5'	2.55	0.47
1:B:273:G:H2'	1:B:274:C:C6	2.49	0.47
1:B:301:G:H2'	1:B:302:C:H6	1.80	0.47
1:B:309:A:N6	1:B:310:A:C2	2.82	0.47
1:B:310:A:N3	1:B:483:A:N1	2.63	0.47
1:B:363:G:H2'	1:B:364:C:H6	1.80	0.47
1:B:377:G:H2'	1:B:378:C:H6	1.80	0.47
1:B:439:A:H2'	1:B:440:C:C6	2.49	0.47
1:B:471:A:C8	1:B:1250:G:O2'	2.67	0.47
1:B:474:G:H2'	1:B:475:C:H6	1.80	0.47
1:B:553:G:H2'	1:B:554:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:U:C5	1:B:836:G:H5'	2.44	0.47
1:B:574:A:H4'	1:B:2043:C:C2'	2.44	0.47
1:B:580:U:H2'	1:B:581:C:C6	2.49	0.47
1:B:583:G:H2'	1:B:584:C:C6	2.49	0.47
1:B:590:A:H2'	1:B:591:U:H6	1.80	0.47
1:B:611:C:C5'	1:B:612:G:OP2	2.53	0.47
1:B:623:C:H2'	1:B:624:C:C6	2.49	0.47
1:B:639:U:H2'	1:B:640:C:C6	2.50	0.47
1:B:664:G:H2'	1:B:665:U:H6	1.79	0.47
1:B:678:C:H2'	1:B:679:C:C6	2.49	0.47
1:B:678:C:H2'	1:B:679:C:H6	1.80	0.47
1:B:682:G:H2'	1:B:683:U:H6	1.80	0.47
1:B:730:A:H2'	1:B:731:C:C6	2.49	0.47
1:B:736:C:H2'	1:B:737:C:H6	1.80	0.47
1:B:748:G:HO2'	1:B:749:A:P	2.38	0.47
1:B:834:G:H2'	1:B:835:C:H6	1.80	0.47
1:B:884:U:H2'	1:B:885:C:C6	2.49	0.47
1:B:897:C:H2'	1:B:898:C:C6	2.49	0.47
1:B:934:U:H2'	1:B:935:C:H6	1.80	0.47
1:B:963:U:H2'	1:B:964:C:C6	2.49	0.47
1:B:964:C:H2'	1:B:965:C:C6	2.49	0.47
1:B:989:G:C8	1:B:1153:C:C3'	2.96	0.47
1:B:1009:A:O2'	1:B:1011:G:C8	2.68	0.47
1:B:1022:G:OP1	1:B:1023:U:O5'	2.33	0.47
1:B:1039:A:H3'	1:B:1040:A:N7	2.30	0.47
1:B:1117:C:H2'	1:B:1118:C:C6	2.49	0.47
1:B:1166:G:H2'	1:B:1167:C:C6	2.49	0.47
1:B:1284:A:O5'	1:B:2012:G:H1'	2.06	0.47
1:B:1296:G:H2'	1:B:1297:C:H6	1.80	0.47
1:B:1298:C:O5'	1:B:1339:G:N3	2.47	0.47
1:B:1302:A:C3'	1:B:1302:A:HO3'	2.17	0.47
1:B:1310:G:C8	1:B:1644:C:OP2	2.67	0.47
1:B:1314:C:H2'	1:B:1315:C:C6	2.49	0.47
1:B:1318:U:H2'	1:B:1319:C:H6	1.80	0.47
1:B:1349:C:H2'	1:B:1350:C:C6	2.50	0.47
1:B:1362:C:H2'	1:B:1363:C:C6	2.49	0.47
1:B:1410:G:H2'	1:B:1411:U:H6	1.80	0.47
1:B:1425:G:H5"	1:B:1566:A:C4'	2.33	0.47
1:B:1428:C:H5'	1:B:1430:C:OP1	2.14	0.47
1:B:1442:U:H2'	1:B:1443:U:C6	2.49	0.47
1:B:1450:G:H21	1:B:1452:G:H5"	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1511:G:H2'	1:B:1512:C:C6	2.49	0.47
1:B:1530:G:H2'	1:B:1531:C:H6	1.80	0.47
1:B:1583:A:C2	1:B:1637:A:OP2	2.67	0.47
1:B:1630:A:C5'	1:B:1631:G:P	3.01	0.47
1:B:1714:U:H2'	1:B:1737:G:H22	1.79	0.47
1:B:1746:A:H2'	1:B:1747:U:H6	1.80	0.47
1:B:1791:A:C1'	1:B:1791:A:C4	2.86	0.47
1:B:1828:G:C5'	1:B:1969:A:H5'	2.26	0.47
1:B:1829:A:H2'	1:B:1830:C:C6	2.49	0.47
1:B:1835:G:H2'	1:B:1836:C:C6	2.49	0.47
1:B:1848:A:N1	1:B:2230:G:N2	2.63	0.47
1:B:1853:A:C8	1:B:1888:G:C8	3.03	0.47
1:B:1873:G:H2'	1:B:1874:C:H6	1.80	0.47
1:B:1897:G:H2'	1:B:1898:U:H6	1.80	0.47
1:B:1923:U:H2'	1:B:1924:C:H6	1.80	0.47
1:B:1938:A:C4'	1:B:1941:C:H41	2.28	0.47
1:B:1985:C:H2'	1:B:1986:C:C6	2.49	0.47
1:B:2010:G:H2'	1:B:2011:U:H6	1.79	0.47
1:B:2015:A:H2'	1:B:2015:A:N3	2.29	0.47
1:B:2030:1MA:N6	1:B:2253:G:OP1	2.48	0.47
1:B:2159:G:H2'	1:B:2160:C:H6	1.80	0.47
1:B:2174:C:H2'	1:B:2175:C:H6	1.80	0.47
1:B:2177:C:H2'	1:B:2178:C:C6	2.49	0.47
1:B:2185:U:C4'	1:B:2186:G:N7	2.68	0.47
1:B:2221:G:H2'	1:B:2222:C:H6	1.80	0.47
1:B:2235:G:H2'	1:B:2236:U:H6	1.79	0.47
1:B:2296:U:O3'	1:B:2297:A:OP1	2.26	0.47
1:B:2299:U:H2'	1:B:2300:C:C6	2.49	0.47
1:B:2343:U:H2'	1:B:2344:U:H6	1.80	0.47
1:B:2375:G:O2'	1:B:2376:A:OP2	2.33	0.47
1:B:2401:U:H5"	1:B:2407:A:OP2	2.15	0.47
1:B:2402:U:H2'	1:B:2403:C:C6	2.49	0.47
1:B:2407:A:H2'	1:B:2408:U:H6	1.79	0.47
1:B:2418:A:H2'	1:B:2419:U:H6	1.80	0.47
1:B:2465:C:H2'	1:B:2466:C:H6	1.80	0.47
1:B:2485:G:H2'	1:B:2486:C:H6	1.80	0.47
1:B:2506:U:H2'	1:B:2507:C:C6	2.49	0.47
1:B:2533:U:C4	1:B:2534:A:C5	3.02	0.47
1:B:2538:C:H2'	1:B:2539:C:H6	1.80	0.47
1:B:2615:U:H2'	1:B:2616:C:C6	2.49	0.47
1:B:2639:A:O2'	1:B:2777:G:C5	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2649:C:H2'	1:B:2650:U:H6	1.79	0.47
1:B:2651:C:H2'	1:B:2652:C:C6	2.49	0.47
1:B:2671:G:H2'	1:B:2672:U:H6	1.80	0.47
1:B:2685:G:N7	1:B:2687:U:O5'	2.48	0.47
1:B:2771:C:H2'	1:B:2772:C:C6	2.49	0.47
1:B:2803:G:H2'	1:B:2804:U:H6	1.79	0.47
1:B:2854:G:H2'	1:B:2855:C:C6	2.49	0.47
1:B:2901:C:H2'	1:B:2902:C:H6	1.80	0.47
1:B:15:G:N7	1:B:16:C:H4'	2.30	0.47
1:B:21:A:H2'	1:B:22:C:C6	2.49	0.47
1:B:24:G:H2'	1:B:25:U:H6	1.80	0.47
1:B:28:A:H3'	1:B:1251:C:H4'	1.97	0.47
1:B:31:C:H2'	1:B:32:C:C6	2.49	0.47
1:B:32:C:C4	1:B:33:C:C5	2.89	0.47
1:B:104:A:H2'	1:B:105:C:C6	2.49	0.47
1:B:108:G:H2'	1:B:109:C:H6	1.80	0.47
1:B:179:C:O2'	1:B:197:A:O5'	2.29	0.47
1:B:221:A:N7	1:B:279:A:C5'	2.77	0.47
1:B:227:A:C2	1:B:432:A:H2'	2.46	0.47
1:B:252:G:H2'	1:B:253:C:H6	1.80	0.47
1:B:254:G:C1'	1:B:254:G:C8	2.78	0.47
1:B:273:G:H2'	1:B:274:C:H6	1.80	0.47
1:B:363:G:H2'	1:B:364:C:C6	2.49	0.47
1:B:436:C:H2'	1:B:437:U:H6	1.79	0.47
1:B:440:C:H2'	1:B:441:U:H6	1.79	0.47
1:B:444:C:H2'	1:B:445:C:H6	1.80	0.47
1:B:450:G:O4'	1:B:452:G:H2'	2.15	0.47
1:B:486:C:H2'	1:B:487:C:H6	1.80	0.47
1:B:500:G:C5	1:B:504:A:O5'	2.68	0.47
1:B:677:A:H5"	1:B:678:C:C6	2.50	0.47
1:B:687:C:H2'	1:B:688:U:H6	1.79	0.47
1:B:691:C:H2'	1:B:692:C:C6	2.50	0.47
1:B:723:C:H2'	1:B:724:U:H6	1.80	0.47
1:B:730:A:H2'	1:B:731:C:H6	1.80	0.47
1:B:731:C:H2'	1:B:732:C:H6	1.80	0.47
1:B:746:PSU:C2	1:B:747:5MU:C1'	2.98	0.47
1:B:762:U:O3'	1:B:763:G:O5'	2.33	0.47
1:B:771:G:H2'	1:B:772:C:C6	2.49	0.47
1:B:838:C:H2'	1:B:839:U:H6	1.80	0.47
1:B:979:A:O5'	1:B:980:A:OP2	2.33	0.47
1:B:1120:G:H2'	1:B:1121:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1166:G:H2'	1:B:1167:C:H6	1.80	0.47
1:B:1228:G:H2'	1:B:1229:C:H6	1.80	0.47
1:B:1273:U:O2	1:B:1275:A:H2'	2.15	0.47
1:B:1285:A:N3	1:B:2012:G:O5'	2.48	0.47
1:B:1290:C:H5'	1:B:1646:C:H4'	1.79	0.47
1:B:1304:A:H2'	1:B:1305:C:H6	1.80	0.47
1:B:1344:U:H4'	1:B:1345:C:C6	2.50	0.47
1:B:1348:C:H5"	1:B:1349:C:H5'	1.97	0.47
1:B:1361:G:H2'	1:B:1362:C:H6	1.80	0.47
1:B:1375:U:H2'	1:B:1376:C:C6	2.49	0.47
1:B:1375:U:H2'	1:B:1376:C:H6	1.80	0.47
1:B:1379:U:C3'	1:B:1380:G:C8	2.81	0.47
1:B:1436:G:H2'	1:B:1437:C:H6	1.80	0.47
1:B:1462:C:H2'	1:B:1463:C:C6	2.49	0.47
1:B:1541:C:H2'	1:B:1542:U:H6	1.79	0.47
1:B:1570:A:H61	1:B:1573:G:C4'	2.28	0.47
1:B:1594:U:H2'	1:B:1595:C:H6	1.80	0.47
1:B:1707:G:H2'	1:B:1708:C:H6	1.80	0.47
1:B:1725:U:H2'	1:B:1726:C:H6	1.80	0.47
1:B:1792:G:H2'	1:B:1793:C:C6	2.49	0.47
1:B:1835:G:N7	1:B:1930:G:C1'	2.77	0.47
1:B:1854:A:P	1:B:1888:G:H2'	2.55	0.47
1:B:1856:U:C5'	1:B:1886:U:O5'	2.63	0.47
1:B:1858:A:C1'	1:B:1884:G:C2	2.92	0.47
1:B:1892:C:H2'	1:B:1893:C:H6	1.80	0.47
1:B:1907:G:H2'	1:B:1908:C:C6	2.49	0.47
1:B:1936:A:O3'	1:B:1938:A:C3'	2.61	0.47
1:B:1940:U:O2'	1:B:2063:C:H6	1.98	0.47
1:B:1984:G:H2'	1:B:1985:C:H6	1.80	0.47
1:B:2067:G:H3'	1:B:2439:A:H5'	1.97	0.47
1:B:2149:U:H2'	1:B:2150:C:H6	1.80	0.47
1:B:2177:C:H2'	1:B:2178:C:H6	1.80	0.47
1:B:2195:U:H2'	1:B:2196:C:H6	1.80	0.47
1:B:2247:A:H2'	1:B:2248:C:C6	2.49	0.47
1:B:2256:G:H2'	1:B:2257:U:H6	1.80	0.47
1:B:2257:U:H2'	1:B:2258:C:H6	1.80	0.47
1:B:2263:C:H2'	1:B:2264:C:C6	2.49	0.47
1:B:2328:A:H2'	1:B:2329:U:H6	1.79	0.47
1:B:2338:C:H2'	1:B:2339:C:H6	1.80	0.47
1:B:2347:C:H2'	1:B:2348:U:H6	1.80	0.47
1:B:2361:G:C5'	1:B:2362:C:H5"	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2441:U:H2'	1:B:2442:C:H6	1.80	0.47
1:B:2445:G:OP2	1:B:2554:U:N1	2.48	0.47
1:B:2462:C:H2'	1:B:2463:C:C6	2.49	0.47
1:B:2514:U:H2'	1:B:2515:C:H6	1.80	0.47
1:B:2516:A:H2'	1:B:2517:C:C6	2.49	0.47
1:B:2526:G:H2'	1:B:2527:C:H6	1.80	0.47
1:B:2527:C:H2'	1:B:2528:U:H6	1.79	0.47
1:B:2572:A:H5"	1:B:2646:C:C1'	2.45	0.47
1:B:2578:G:H2'	1:B:2579:C:C6	2.49	0.47
1:B:2595:G:C1'	1:B:2595:G:C8	2.81	0.47
1:B:2603:G:H2'	1:B:2604:U:H6	1.79	0.47
1:B:2619:C:H2'	1:B:2620:C:H6	1.80	0.47
1:B:2646:C:H2'	1:B:2647:U:H6	1.80	0.47
1:B:2698:U:H2'	1:B:2699:C:H6	1.80	0.47
1:B:2729:G:H2'	1:B:2730:C:C6	2.49	0.47
1:B:2773:C:H2'	1:B:2774:C:C6	2.49	0.47
1:B:2775:G:C1'	1:B:2775:G:C8	2.79	0.47
1:B:2839:G:H2'	1:B:2840:C:H6	1.80	0.47
1:B:2840:C:H2'	1:B:2841:C:C6	2.49	0.47
1:B:2860:A:OP2	1:B:2861:U:C5	2.68	0.47
1:B:9:G:C2	1:B:526:A:O2'	2.63	0.47
1:B:60:G:H5'	1:B:63:A:H5'	1.96	0.47
1:B:78:U:OP2	1:B:99:U:C6	2.67	0.47
1:B:104:A:H2'	1:B:105:C:H6	1.80	0.47
1:B:201:C:OP2	1:B:203:A:N7	2.48	0.47
1:B:221:A:O5'	1:B:277:G:O3'	2.33	0.47
1:B:275:C:O3'	1:B:275:C:H3'	1.99	0.47
1:B:294:A:C5'	1:B:295:G:O5'	2.62	0.47
1:B:331:C:O2	1:B:331:C:H2'	2.15	0.47
1:B:449:A:P	1:B:478:A:C5'	3.03	0.47
1:B:476:G:C5	1:B:477:A:C8	3.03	0.47
1:B:570:G:C1'	1:B:570:G:C8	2.81	0.47
1:B:602:A:C5'	1:B:602:A:O4'	2.58	0.47
1:B:640:C:H2'	1:B:641:U:H6	1.80	0.47
1:B:701:G:H2'	1:B:702:U:H6	1.80	0.47
1:B:764:A:N3	1:B:765:C:N4	2.63	0.47
1:B:802:A:H8	1:B:1252:G:C2	2.33	0.47
1:B:815:C:H2'	1:B:816:C:C6	2.49	0.47
1:B:816:C:H2'	1:B:817:C:H6	1.80	0.47
1:B:840:C:O2'	1:B:963:U:C1'	2.62	0.47
1:B:863:A:H3'	1:B:863:A:N3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:892:A:H2'	1:B:893:C:H6	1.80	0.47
1:B:926:G:O3'	1:B:928:A:P	2.72	0.47
1:B:984:A:C2'	1:B:985:C:H6	2.24	0.47
1:B:993:G:H2'	1:B:994:C:H6	1.80	0.47
1:B:1005:C:H2'	1:B:1006:C:C6	2.50	0.47
1:B:1023:U:O2'	1:B:2465:C:N4	2.47	0.47
1:B:1044:C:C2'	1:B:1045:C:OP2	2.63	0.47
1:B:1113:U:H2'	1:B:1114:C:H6	1.80	0.47
1:B:1151:A:H2'	1:B:1152:C:C6	2.50	0.47
1:B:1154:G:C1'	1:B:1154:G:C8	2.81	0.47
1:B:1155:A:C1'	1:B:1156:A:C8	2.96	0.47
1:B:1206:G:H2'	1:B:1207:C:H6	1.80	0.47
1:B:1256:G:H2'	1:B:1257:C:C6	2.49	0.47
1:B:1260:A:H2'	1:B:1261:C:C6	2.49	0.47
1:B:1289:C:H2'	1:B:1290:C:H6	1.80	0.47
1:B:1394:U:C4	1:B:1395:A:N7	2.83	0.47
1:B:1403:A:H2'	1:B:1404:C:H6	1.80	0.47
1:B:1408:G:H2'	1:B:1409:U:H6	1.80	0.47
1:B:1427:A:N3	1:B:1430:C:C4'	2.78	0.47
1:B:1436:G:H2'	1:B:1437:C:C6	2.49	0.47
1:B:1487:U:H2'	1:B:1488:C:H6	1.80	0.47
1:B:1521:G:N7	1:B:1522:A:N3	2.63	0.47
1:B:1522:A:C4'	1:B:1529:G:OP2	2.63	0.47
1:B:1561:C:H2'	1:B:1562:U:H6	1.79	0.47
1:B:1591:A:H2'	1:B:1592:C:H6	1.80	0.47
1:B:1624:U:H2'	1:B:1625:C:C6	2.49	0.47
1:B:1695:G:N7	1:B:2705:A:O4'	2.48	0.47
1:B:1747:U:H2'	1:B:1748:C:C6	2.50	0.47
1:B:1829:A:H2'	1:B:1830:C:H6	1.80	0.47
1:B:1836:C:H2'	1:B:1837:C:H6	1.80	0.47
1:B:1842:G:H2'	1:B:1843:C:C6	2.49	0.47
1:B:1854:A:C2	1:B:1858:A:C5	3.03	0.47
1:B:1857:G:C5'	1:B:1857:G:HO5'	2.16	0.47
1:B:1908:C:H2'	1:B:1909:C:H6	1.80	0.47
1:B:1915:5MU:N3	1:B:1916:A:C8	2.83	0.47
1:B:1975:G:H2'	1:B:1976:U:H6	1.80	0.47
1:B:1990:C:H5'	1:B:1991:U:C6	2.50	0.47
1:B:2095:A:H2'	1:B:2096:C:C6	2.49	0.47
1:B:2154:A:H2'	1:B:2155:U:H6	1.80	0.47
1:B:2176:A:H2'	1:B:2177:C:H6	1.80	0.47
1:B:2188:U:H2'	1:B:2189:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2191:A:H2'	1:B:2192:U:H6	1.79	0.47
1:B:2205:A:H2'	1:B:2206:C:C6	2.49	0.47
1:B:2260:C:H2'	1:B:2261:C:H6	1.80	0.47
1:B:2318:G:H2'	1:B:2319:G:N2	2.30	0.47
1:B:2323:G:H2'	1:B:2324:U:H6	1.79	0.47
1:B:2349:G:H2'	1:B:2350:C:H6	1.80	0.47
1:B:2373:G:H2'	1:B:2374:C:C6	2.49	0.47
1:B:2382:G:C1'	1:B:2382:G:C8	2.83	0.47
1:B:2383:G:H2'	1:B:2384:U:H6	1.80	0.47
1:B:2416:C:H2'	1:B:2417:C:H6	1.80	0.47
1:B:2451:A:C4'	1:B:2562:U:OP1	2.63	0.47
1:B:2509:G:H2'	1:B:2510:C:H6	1.80	0.47
1:B:2629:U:H5'	1:B:2631:G:OP1	2.15	0.47
1:B:2635:A:H2'	1:B:2636:C:H6	1.80	0.47
1:B:2716:C:H2'	1:B:2717:C:C6	2.49	0.47
1:B:2761:A:H2'	1:B:2762:C:H6	1.80	0.47
1:B:2773:C:H2'	1:B:2774:C:H6	1.80	0.47
1:B:2809:A:H2'	1:B:2810:A:N3	2.30	0.47
1:B:2845:U:O2	1:B:2845:U:C2'	2.63	0.47
1:B:2869:G:C8	1:B:2873:A:C3'	2.98	0.47
1:B:12:U:P	1:B:1195:G:C2'	3.03	0.46
1:B:15:G:O5'	1:B:1256:G:C1'	2.63	0.46
1:B:32:C:OP2	1:B:33:C:H3'	2.15	0.46
1:B:138:U:O2	1:B:138:U:H2'	2.15	0.46
1:B:214:G:O2'	1:B:219:A:C5'	2.63	0.46
1:B:217:A:O5'	1:B:218:A:O3'	2.33	0.46
1:B:223:A:H5'	1:B:224:U:H5'	1.96	0.46
1:B:335:C:H2'	1:B:336:C:H6	1.80	0.46
1:B:356:G:H2'	1:B:357:C:H6	1.80	0.46
1:B:419:U:H2'	1:B:420:C:C6	2.49	0.46
1:B:425:G:H2'	1:B:426:C:C6	2.49	0.46
1:B:439:A:H2'	1:B:440:C:H6	1.80	0.46
1:B:515:A:H2'	1:B:516:C:H6	1.80	0.46
1:B:516:C:H2'	1:B:517:C:H6	1.80	0.46
1:B:526:A:OP2	1:B:811:U:C2'	2.63	0.46
1:B:539:G:H2'	1:B:540:C:H6	1.80	0.46
1:B:580:U:H2'	1:B:581:C:H6	1.80	0.46
1:B:597:G:H2'	1:B:598:U:H6	1.79	0.46
1:B:601:C:C5'	1:B:604:G:O4'	2.64	0.46
1:B:649:G:H2'	1:B:650:C:H6	1.80	0.46
1:B:673:C:C2'	1:B:673:C:O2	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:679:C:H2'	1:B:680:C:H6	1.80	0.46
1:B:779:U:C2	1:B:794:A:C8	3.03	0.46
1:B:803:U:C2'	1:B:1255:U:O5'	2.42	0.46
1:B:804:A:O2'	1:B:1254:A:C5	2.65	0.46
1:B:813:U:H2'	1:B:814:C:C6	2.49	0.46
1:B:841:G:H2'	1:B:842:U:H6	1.80	0.46
1:B:857:G:O2'	1:B:912:C:O2	2.31	0.46
1:B:886:A:O2'	1:B:887:U:C5	2.57	0.46
1:B:897:C:H2'	1:B:898:C:H6	1.80	0.46
1:B:997:G:H2'	1:B:998:C:H6	1.80	0.46
1:B:1118:C:H2'	1:B:1119:U:C6	2.49	0.46
1:B:1147:A:H2'	1:B:1148:U:H6	1.79	0.46
1:B:1160:G:H2'	1:B:1161:C:C6	2.49	0.46
1:B:1182:G:H2'	1:B:1183:U:H6	1.80	0.46
1:B:1222:U:O5'	1:B:1223:G:OP2	2.33	0.46
1:B:1239:G:H2'	1:B:1240:U:C6	2.49	0.46
1:B:1256:G:H2'	1:B:1257:C:H6	1.80	0.46
1:B:1292:G:H2'	1:B:1293:C:C6	2.49	0.46
1:B:1305:C:H5"	1:B:1646:C:C2	2.49	0.46
1:B:1317:G:H2'	1:B:1318:U:H6	1.80	0.46
1:B:1329:U:C5'	1:B:1330:C:C6	2.98	0.46
1:B:1398:C:H2'	1:B:1399:C:C6	2.49	0.46
1:B:1453:A:H5'	1:B:1524:G:P	2.55	0.46
1:B:1505:A:H2'	1:B:1506:U:H6	1.80	0.46
1:B:1517:G:H2'	1:B:1518:C:C6	2.49	0.46
1:B:1569:A:N6	1:B:1571:A:C4'	2.76	0.46
1:B:1637:A:H2'	1:B:1638:C:H6	1.80	0.46
1:B:1656:C:H2'	1:B:1657:U:H6	1.80	0.46
1:B:1657:U:H2'	1:B:1658:C:H6	1.80	0.46
1:B:1671:U:OP1	1:B:1753:G:O4'	2.33	0.46
1:B:1776:G:H2'	1:B:1777:U:H6	1.79	0.46
1:B:1842:G:H2'	1:B:1843:C:H6	1.80	0.46
1:B:1905:C:O3'	1:B:1928:A:O5'	2.32	0.46
1:B:1960:A:H2'	1:B:1961:C:H6	1.80	0.46
1:B:1973:G:H2'	1:B:1974:C:H6	1.81	0.46
1:B:2007:U:H2'	1:B:2008:C:H6	1.80	0.46
1:B:2044:C:H2'	1:B:2045:C:H6	1.80	0.46
1:B:2049:G:H2'	1:B:2050:C:H6	1.80	0.46
1:B:2142:A:H2'	1:B:2143:C:H6	1.80	0.46
1:B:2150:C:H2'	1:B:2151:U:H6	1.80	0.46
1:B:2176:A:H2'	1:B:2177:C:C6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2194:U:H2'	1:B:2195:U:H6	1.79	0.46
1:B:2258:C:C2'	1:B:2259:U:OP2	2.62	0.46
1:B:2341:G:H2'	1:B:2342:C:H6	1.80	0.46
1:B:2419:U:H2'	1:B:2420:C:C6	2.49	0.46
1:B:2520:C:H2'	1:B:2521:C:H6	1.80	0.46
1:B:2555:U:C1'	1:B:2556:C:P	3.02	0.46
1:B:2605:U:H2'	1:B:2606:C:H6	1.80	0.46
1:B:2650:U:H2'	1:B:2651:C:H6	1.80	0.46
1:B:2706:A:H2'	1:B:2707:U:H6	1.79	0.46
1:B:2709:G:H2'	1:B:2710:C:C6	2.49	0.46
1:B:2711:A:C8	1:B:2712:C:H5'	2.49	0.46
1:B:2744:G:H2'	1:B:2745:C:H6	1.80	0.46
1:B:2748:A:H2'	1:B:2755:C:H41	1.80	0.46
1:B:2777:G:C1'	1:B:2777:G:C8	2.81	0.46
1:B:2786:U:H2'	1:B:2787:C:C6	2.50	0.46
1:B:2792:A:H2'	1:B:2793:C:H6	1.80	0.46
1:B:2798:U:C5	1:B:2800:A:H1'	2.50	0.46
1:B:2816:G:H2'	1:B:2817:U:H6	1.79	0.46
1:B:7:G:H2'	1:B:8:C:H6	1.80	0.46
1:B:15:G:O5'	1:B:1197:G:C2	2.68	0.46
1:B:17:G:H2'	1:B:18:U:H6	1.79	0.46
1:B:28:A:N7	1:B:673:C:C3'	2.78	0.46
1:B:46:G:C2'	1:B:47:C:OP1	2.63	0.46
1:B:79:C:P	1:B:126:A:H62	2.38	0.46
1:B:231:A:H2'	1:B:234:U:C5	2.50	0.46
1:B:236:C:H2'	1:B:237:C:H6	1.80	0.46
1:B:252:G:H2'	1:B:253:C:C6	2.49	0.46
1:B:304:U:H2'	1:B:305:C:H6	1.80	0.46
1:B:304:U:H2'	1:B:305:C:C6	2.49	0.46
1:B:329:G:C2	1:B:336:C:N4	2.83	0.46
1:B:333:G:H2'	1:B:334:C:H6	1.80	0.46
1:B:392:U:H2'	1:B:393:C:C6	2.49	0.46
1:B:392:U:H2'	1:B:393:C:H6	1.80	0.46
1:B:411:G:H2'	1:B:411:G:N3	2.30	0.46
1:B:417:C:H2'	1:B:418:C:H6	1.80	0.46
1:B:446:G:H1'	1:B:470:A:O3'	2.15	0.46
1:B:516:C:H2'	1:B:517:C:C6	2.49	0.46
1:B:524:G:H3'	1:B:810:U:O2	2.13	0.46
1:B:646:U:H5"	1:B:647:G:C4'	2.44	0.46
1:B:825:A:H2'	1:B:826:U:H6	1.79	0.46
1:B:884:U:H2'	1:B:885:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:885:C:C3’	1:B:886:A:H5”	2.45	0.46
1:B:906:U:H4’	1:B:907:G:C5’	2.46	0.46
1:B:964:C:H2’	1:B:965:C:H6	1.80	0.46
1:B:1003:G:H2’	1:B:1004:U:H6	1.80	0.46
1:B:1014:A:H2’	1:B:1015:U:H6	1.79	0.46
1:B:1112:G:H2’	1:B:1113:U:H6	1.79	0.46
1:B:1152:C:H2’	1:B:1153:C:C6	2.49	0.46
1:B:1179:G:H2’	1:B:1180:U:H6	1.79	0.46
1:B:1283:G:C4’	1:B:2013:A:H5”	2.43	0.46
1:B:1290:C:H4’	1:B:1646:C:O2’	2.15	0.46
1:B:1334:G:H2’	1:B:1335:C:H6	1.80	0.46
1:B:1374:G:H2’	1:B:1375:U:H6	1.79	0.46
1:B:1414:C:H2’	1:B:1415:U:H6	1.80	0.46
1:B:1418:G:O6	1:B:1581:G:C6	2.69	0.46
1:B:1451:C:C5’	1:B:1526:C:C6	2.98	0.46
1:B:1452:G:N9	1:B:1461:C:H1’	2.30	0.46
1:B:1488:C:H2’	1:B:1489:C:H6	1.80	0.46
1:B:1490:A:N3	1:B:1494:A:C5’	2.78	0.46
1:B:1506:U:H2’	1:B:1507:C:H6	1.80	0.46
1:B:1540:G:H2’	1:B:1541:C:C6	2.49	0.46
1:B:1593:A:H2’	1:B:1594:U:H6	1.80	0.46
1:B:1673:G:O3’	1:B:1678:A:C6	2.68	0.46
1:B:1764:C:H2’	1:B:1765:U:H6	1.80	0.46
1:B:1767:G:H2’	1:B:1768:C:H6	1.80	0.46
1:B:1880:U:H2’	1:B:1881:C:H6	1.80	0.46
1:B:1894:C:H2’	1:B:1895:C:H6	1.80	0.46
1:B:1933:G:C1’	1:B:1933:G:C8	2.84	0.46
1:B:1933:G:O5’	1:B:2063:C:OP2	2.33	0.46
1:B:1936:A:N7	1:B:1938:A:H2’	2.21	0.46
1:B:1937:A:OP1	1:B:1938:A:O4’	2.34	0.46
1:B:1941:C:C3’	1:B:1942:C:P	3.01	0.46
1:B:1954:G:C1’	1:B:1954:G:C8	2.82	0.46
1:B:2097:A:H2’	1:B:2098:U:H6	1.80	0.46
1:B:2202:U:C2’	1:B:2204:G:O4’	2.44	0.46
1:B:2206:C:H2’	1:B:2207:C:H6	1.80	0.46
1:B:2294:G:H2’	1:B:2295:C:C6	2.49	0.46
1:B:2295:C:H2’	1:B:2296:U:H6	1.80	0.46
1:B:2332:C:C2’	1:B:2333:A:O5’	2.64	0.46
1:B:2341:G:H2’	1:B:2342:C:C6	2.49	0.46
1:B:2402:U:H2’	1:B:2403:C:H6	1.80	0.46
1:B:2557:G:H2’	1:B:2558:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2593:U:H2'	1:B:2594:C:H6	1.80	0.46
1:B:2611:C:H2'	1:B:2612:C:H6	1.80	0.46
1:B:2648:G:H2'	1:B:2649:C:H6	1.80	0.46
1:B:2677:G:H2'	1:B:2678:C:C6	2.49	0.46
1:B:2713:U:O3'	1:B:2713:U:H3'	1.96	0.46
1:B:2726:A:H5'	1:B:2727:A:C5'	2.20	0.46
1:B:2729:G:H2'	1:B:2730:C:H6	1.80	0.46
1:B:2793:C:H2'	1:B:2794:C:H6	1.80	0.46
1:B:2810:A:C5'	1:B:2811:G:H8	2.14	0.46
1:B:9:G:C2'	1:B:526:A:H3'	2.46	0.46
1:B:12:U:OP1	1:B:1195:G:C2'	2.64	0.46
1:B:28:A:C8	1:B:673:C:C3'	2.99	0.46
1:B:28:A:C4	1:B:674:G:H5"	2.50	0.46
1:B:68:G:H2'	1:B:69:C:H6	1.80	0.46
1:B:95:A:H2'	1:B:96:C:H6	1.80	0.46
1:B:100:U:O4'	1:B:119:A:O4'	2.33	0.46
1:B:114:U:H2'	1:B:115:C:H6	1.80	0.46
1:B:141:G:O6	1:B:1324:G:O2'	2.32	0.46
1:B:146:A:H2'	1:B:147:C:H6	1.80	0.46
1:B:179:C:N4	1:B:195:A:OP1	2.47	0.46
1:B:208:C:H2'	1:B:209:C:H6	1.80	0.46
1:B:224:U:H2'	1:B:225:C:C6	2.49	0.46
1:B:235:U:H2'	1:B:236:C:H6	1.80	0.46
1:B:239:C:C6	1:B:276:U:H5'	2.35	0.46
1:B:292:U:H2'	1:B:293:U:H6	1.80	0.46
1:B:295:G:H2'	1:B:296:U:H6	1.79	0.46
1:B:336:C:H2'	1:B:337:C:H6	1.80	0.46
1:B:348:A:H2'	1:B:349:U:H6	1.80	0.46
1:B:362:A:H5'	1:B:428:A:C5'	2.36	0.46
1:B:524:G:OP1	1:B:586:A:O3'	2.33	0.46
1:B:549:G:H2'	1:B:550:C:H6	1.80	0.46
1:B:600:G:H2'	1:B:601:C:H6	1.81	0.46
1:B:647:G:C8	1:B:653:U:O5'	2.68	0.46
1:B:853:C:H2'	1:B:854:C:H6	1.80	0.46
1:B:921:C:H2'	1:B:922:C:H6	1.80	0.46
1:B:931:U:O5'	1:B:934:U:C5	2.67	0.46
1:B:980:A:C2	1:B:982:C:C4	3.03	0.46
1:B:1020:A:N7	1:B:1133:A:OP2	2.49	0.46
1:B:1169:A:H2'	1:B:1170:C:H6	1.80	0.46
1:B:1183:U:H2'	1:B:1184:U:H6	1.80	0.46
1:B:1198:U:H4'	1:B:1256:G:O2'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1198:U:H2'	1:B:1199:U:H6	1.80	0.46
1:B:1233:C:H2'	1:B:1234:U:H6	1.79	0.46
1:B:1275:A:N6	1:B:1277:G:O6	2.49	0.46
1:B:1427:A:O5'	1:B:1573:G:OP1	2.33	0.46
1:B:1674:G:H2'	1:B:1679:A:C4'	2.41	0.46
1:B:1693:U:O2	1:B:1693:U:H2'	2.16	0.46
1:B:1768:C:H2'	1:B:1769:U:H6	1.80	0.46
1:B:1778:U:HO2'	1:B:2556:C:C2'	2.27	0.46
1:B:1787:A:H2'	1:B:1788:C:H6	1.80	0.46
1:B:1824:G:H2'	1:B:1825:U:H6	1.79	0.46
1:B:1843:C:H2'	1:B:1844:C:H6	1.80	0.46
1:B:1853:A:O5'	1:B:1855:U:N3	2.45	0.46
1:B:1864:U:H2'	1:B:1865:U:H6	1.79	0.46
1:B:1937:A:OP1	1:B:1938:A:N9	2.47	0.46
1:B:1978:A:H8	1:B:1979:U:C4'	2.28	0.46
1:B:2071:A:H2'	1:B:2072:C:H6	1.80	0.46
1:B:2072:C:H2'	1:B:2073:C:H6	1.80	0.46
1:B:2074:U:H2'	1:B:2075:U:H6	1.79	0.46
1:B:2088:A:H2'	1:B:2089:C:H6	1.80	0.46
1:B:2181:U:H2'	1:B:2182:U:H6	1.80	0.46
1:B:2207:C:H2'	1:B:2208:C:C6	2.49	0.46
1:B:2221:G:H2'	1:B:2222:C:C6	2.49	0.46
1:B:2319:G:C1'	1:B:2319:G:C8	2.82	0.46
1:B:2377:A:H5'	1:B:2394:C:P	2.55	0.46
1:B:2537:U:H2'	1:B:2538:C:H6	1.80	0.46
1:B:2539:C:H2'	1:B:2540:C:H6	1.80	0.46
1:B:2560:A:H2'	1:B:2561:U:H6	1.79	0.46
1:B:2572:A:H5"	1:B:2646:C:H1'	1.94	0.46
1:B:2582:G:O2'	1:B:2583:G:P	2.74	0.46
1:B:2590:A:H2'	1:B:2591:C:C6	2.49	0.46
1:B:2694:G:H2'	1:B:2695:U:H6	1.80	0.46
1:B:2709:G:H2'	1:B:2710:C:H6	1.80	0.46
1:B:2716:C:H2'	1:B:2717:C:H6	1.80	0.46
1:B:2789:C:H41	1:B:2887:A:H61	1.63	0.46
1:B:2794:C:H2'	1:B:2795:C:H6	1.80	0.46
1:B:2845:U:H1'	1:B:2868:A:C2	2.51	0.46
1:B:102:U:N3	1:B:119:A:N6	2.62	0.46
1:B:238:C:H2'	1:B:239:C:H6	1.80	0.46
1:B:457:A:C1'	1:B:457:A:C4	2.82	0.46
1:B:485:C:H2'	1:B:486:C:C6	2.49	0.46
1:B:485:C:H2'	1:B:486:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:A:H2'	1:B:564:C:O5'	2.15	0.46
1:B:639:U:H2'	1:B:640:C:H6	1.80	0.46
1:B:722:A:H2'	1:B:723:C:H6	1.80	0.46
1:B:764:A:N3	1:B:765:C:C4	2.84	0.46
1:B:772:C:H2'	1:B:773:U:H6	1.80	0.46
1:B:814:C:H2'	1:B:815:C:H6	1.80	0.46
1:B:840:C:C1'	1:B:963:U:C5'	2.94	0.46
1:B:849:A:H2'	1:B:850:U:H6	1.79	0.46
1:B:857:G:C4'	1:B:858:G:C8	2.98	0.46
1:B:899:A:O5'	1:B:902:C:O4'	2.33	0.46
1:B:962:G:H2'	1:B:963:U:H6	1.80	0.46
1:B:1039:A:C5	1:B:1040:A:N6	2.82	0.46
1:B:1039:A:C5	1:B:1040:A:C6	3.03	0.46
1:B:1042:G:H2'	1:B:1043:C:H6	1.80	0.46
1:B:1046:A:C5'	1:B:1051:G:C8	2.86	0.46
1:B:1157:G:H2'	1:B:1158:C:H6	1.80	0.46
1:B:1160:G:H2'	1:B:1161:C:H6	1.80	0.46
1:B:1199:U:P	1:B:1257:C:C5'	3.04	0.46
1:B:1218:G:H2'	1:B:1219:U:H6	1.79	0.46
1:B:1236:G:C1'	1:B:1236:G:C8	2.83	0.46
1:B:1277:G:H2'	1:B:1278:C:H6	1.80	0.46
1:B:1356:G:H2'	1:B:1357:C:H6	1.80	0.46
1:B:1446:C:H2'	1:B:1447:C:H6	1.80	0.46
1:B:1569:A:OP2	1:B:1569:A:C1'	2.63	0.46
1:B:1570:A:C2	1:B:1572:A:O5'	2.69	0.46
1:B:1574:C:H2'	1:B:1575:C:H6	1.80	0.46
1:B:1673:G:O4'	1:B:1680:U:C5	2.69	0.46
1:B:1674:G:C8	1:B:1680:U:O3'	2.68	0.46
1:B:1832:C:H2'	1:B:1833:C:H6	1.80	0.46
1:B:1854:A:C4	1:B:1858:A:C8	3.03	0.46
1:B:1908:C:H2'	1:B:1909:C:C6	2.49	0.46
1:B:1950:G:H21	1:B:1951:U:H6	1.56	0.46
1:B:1954:G:C5'	1:B:1955:U:C6	2.98	0.46
1:B:1963:U:C2	1:B:1963:U:C2'	2.98	0.46
1:B:1973:G:H5"	1:B:2062:A:C2	2.50	0.46
1:B:1993:U:H2'	1:B:1994:C:H6	1.80	0.46
1:B:2165:C:H5'	1:B:2168:G:N2	2.31	0.46
1:B:2284:A:H62	1:B:2388:A:H1'	1.81	0.46
1:B:2294:G:H2'	1:B:2295:C:H6	1.80	0.46
1:B:2337:G:H2'	1:B:2338:C:H6	1.80	0.46
1:B:2416:C:H2'	1:B:2417:C:C6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2491:U:H2'	1:B:2492:U:H6	1.79	0.46
1:B:2651:C:H2'	1:B:2652:C:H6	1.80	0.46
1:B:2754:U:H5"	1:B:2755:C:O5'	2.16	0.46
1:B:2783:U:H2'	1:B:2784:U:H6	1.79	0.46
1:B:2806:C:H1'	1:B:2807:U:O2'	2.15	0.46
1:B:2821:A:C8	1:B:2823:A:OP2	2.69	0.46
1:B:2829:A:H2'	1:B:2830:C:C6	2.49	0.46
1:B:2831:G:H2'	1:B:2832:U:H6	1.79	0.46
1:B:2848:G:H4'	1:B:2870:C:H4'	1.95	0.46
1:B:2900:A:H2'	1:B:2901:C:H6	1.80	0.46
1:B:28:A:OP2	1:B:1249:U:OP1	2.33	0.46
1:B:78:U:OP2	1:B:99:U:C4'	2.63	0.46
1:B:78:U:H2'	1:B:79:C:H6	1.80	0.46
1:B:129:C:H2'	1:B:130:C:H6	1.80	0.46
1:B:173:A:H2'	1:B:174:U:H6	1.80	0.46
1:B:203:A:OP2	1:B:204:A:N7	2.48	0.46
1:B:215:G:H1'	1:B:257:C:H5	1.79	0.46
1:B:227:A:H3'	1:B:229:C:C5	2.50	0.46
1:B:257:C:C6	1:B:258:G:O4'	2.68	0.46
1:B:262:A:C4'	1:B:429:A:O5'	2.64	0.46
1:B:330:A:O3'	1:B:330:A:C4'	2.56	0.46
1:B:361:G:O3'	1:B:428:A:OP2	2.34	0.46
1:B:364:C:H2'	1:B:365:U:H6	1.79	0.46
1:B:400:G:C1'	1:B:400:G:C8	2.81	0.46
1:B:420:C:H2'	1:B:421:C:C6	2.49	0.46
1:B:420:C:H2'	1:B:421:C:H6	1.80	0.46
1:B:449:A:C2	1:B:594:U:O2'	2.69	0.46
1:B:489:G:P	1:B:489:G:H21	2.39	0.46
1:B:528:A:N6	1:B:564:C:N4	2.63	0.46
1:B:671:C:H2'	1:B:672:C:H6	1.80	0.46
1:B:823:C:H2'	1:B:824:U:H6	1.80	0.46
1:B:850:U:HO2'	1:B:851:C:C1'	2.19	0.46
1:B:898:C:H2'	1:B:899:A:H3'	1.97	0.46
1:B:927:A:H3'	1:B:927:A:N3	2.31	0.46
1:B:934:U:H2'	1:B:935:C:C6	2.49	0.46
1:B:991:C:H2'	1:B:992:C:H6	1.80	0.46
1:B:1010:A:O5'	1:B:1011:G:N7	2.48	0.46
1:B:1024:G:C4'	1:B:2467:C:C5'	2.93	0.46
1:B:1026:G:C1'	1:B:1026:G:C8	2.85	0.46
1:B:1189:A:O3'	1:B:1190:G:OP2	2.33	0.46
1:B:1242:U:O5'	1:B:1243:C:C1'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1319:C:H2'	1:B:1320:C:H6	1.80	0.46
1:B:1350:C:H2'	1:B:1351:C:H6	1.80	0.46
1:B:1358:G:N2	1:B:1359:A:N3	2.63	0.46
1:B:1366:A:N7	1:B:1367:A:C6	2.84	0.46
1:B:1366:A:C5'	1:B:1367:A:OP2	2.63	0.46
1:B:1441:G:H2'	1:B:1442:U:H6	1.80	0.46
1:B:1462:C:H2'	1:B:1463:C:H6	1.80	0.46
1:B:1471:G:H21	1:B:1522:A:H8	1.49	0.46
1:B:1569:A:N9	1:B:1572:A:OP2	2.48	0.46
1:B:1620:G:OP2	1:B:1621:U:C4	2.63	0.46
1:B:1685:C:H2'	1:B:1686:C:H6	1.80	0.46
1:B:1747:U:H2'	1:B:1748:C:H6	1.80	0.46
1:B:1777:U:H2'	1:B:1778:U:H6	1.79	0.46
1:B:1821:A:H2'	1:B:1822:C:H6	1.80	0.46
1:B:1886:U:C2'	1:B:1888:G:OP1	2.60	0.46
1:B:1952:A:H1'	1:B:1968:G:H22	1.80	0.46
1:B:1964:G:C1'	1:B:1964:G:C8	2.80	0.46
1:B:1970:A:H2'	1:B:1970:A:N3	2.30	0.46
1:B:2115:G:H2'	1:B:2115:G:N3	2.30	0.46
1:B:2205:A:H2'	1:B:2206:C:H6	1.80	0.46
1:B:2363:G:H2'	1:B:2364:C:H6	1.80	0.46
1:B:2604:U:H2'	1:B:2605:U:H6	1.79	0.46
1:B:2683:C:O2	1:B:2684:U:H5	1.99	0.46
1:B:2714:G:H2'	1:B:2715:C:C6	2.49	0.46
1:B:2714:G:H2'	1:B:2715:C:H6	1.80	0.46
1:B:2721:A:O2'	1:B:2722:G:C5'	2.63	0.46
1:B:2759:G:H2'	1:B:2760:C:H6	1.80	0.46
1:B:2787:C:H2'	1:B:2788:C:H6	1.80	0.46
1:B:2822:G:C1'	1:B:2822:G:C8	2.83	0.46
1:B:19:A:H2'	1:B:20:C:H6	1.80	0.46
1:B:30:G:H2'	1:B:31:C:H6	1.80	0.46
1:B:77:G:H5'	1:B:148:U:OP1	2.16	0.46
1:B:227:A:C5	1:B:228:C:N4	2.84	0.46
1:B:242:G:C1'	1:B:242:G:C8	2.81	0.46
1:B:262:A:C4'	1:B:263:G:OP1	2.58	0.46
1:B:291:G:H2'	1:B:292:U:H6	1.80	0.46
1:B:319:G:H1'	1:B:320:A:O2'	2.15	0.46
1:B:321:U:P	1:B:324:A:C4	3.09	0.46
1:B:451:U:C5	1:B:461:C:C5	3.03	0.46
1:B:458:G:C1'	1:B:458:G:C8	2.83	0.46
1:B:472:A:C2'	1:B:473:G:C5'	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:A:C3'	1:B:501:A:OP1	2.64	0.46
1:B:585:G:C1'	1:B:585:G:C8	2.84	0.46
1:B:786:C:H2'	1:B:787:C:H6	1.80	0.46
1:B:795:C:H2'	1:B:796:C:H6	1.80	0.46
1:B:831:G:H2'	1:B:832:U:H6	1.79	0.46
1:B:907:G:H2'	1:B:908:C:C6	2.49	0.46
1:B:907:G:H2'	1:B:908:C:H6	1.80	0.46
1:B:1001:A:N3	1:B:1001:A:H2'	2.31	0.46
1:B:1034:G:H2'	1:B:1035:U:H6	1.79	0.46
1:B:1117:C:P	1:B:2751:G:O5'	2.71	0.46
1:B:1120:G:H2'	1:B:1121:C:H6	1.80	0.46
1:B:1144:A:H2'	1:B:1145:C:H6	1.79	0.46
1:B:1153:C:OP1	1:B:1156:A:N7	2.48	0.46
1:B:1189:A:O3'	1:B:1190:G:O5'	2.34	0.46
1:B:1292:G:H2'	1:B:1293:C:H6	1.80	0.46
1:B:1313:U:H2'	1:B:1314:C:H6	1.80	0.46
1:B:1448:G:O3'	1:B:1587:G:C1'	2.64	0.46
1:B:1487:U:H2'	1:B:1488:C:C6	2.49	0.46
1:B:1511:G:H2'	1:B:1512:C:H6	1.80	0.46
1:B:1532:A:H2'	1:B:1533:C:H6	1.80	0.46
1:B:1568:G:O5'	1:B:1570:A:N7	2.49	0.46
1:B:1638:C:H2'	1:B:1639:C:H6	1.80	0.46
1:B:1643:G:H2'	1:B:1644:C:H6	1.80	0.46
1:B:1705:A:H2'	1:B:1706:C:H6	1.80	0.46
1:B:1853:A:OP2	1:B:1855:U:O4	2.33	0.46
1:B:1878:G:H2'	1:B:1879:C:H6	1.80	0.46
1:B:1886:U:C2'	1:B:1887:C:H3'	2.45	0.46
1:B:1899:A:OP1	1:B:1900:A:O3'	2.34	0.46
1:B:1931:U:OP2	1:B:1932:A:OP2	2.34	0.46
1:B:1981:A:C4	1:B:1982:U:C5	3.03	0.46
1:B:1998:A:H2'	1:B:1999:C:H6	1.80	0.46
1:B:2007:U:OP1	1:B:2846:G:C5	2.68	0.46
1:B:2201:G:H2'	1:B:2202:U:H6	1.80	0.46
1:B:2479:U:H2'	1:B:2480:C:H6	1.80	0.46
1:B:2556:C:O5'	1:B:2557:G:C5'	2.52	0.46
1:B:2585:U:H2'	1:B:2585:U:O2	2.16	0.46
1:B:2681:C:H2'	1:B:2682:A:O5'	2.15	0.46
1:B:2683:C:N3	1:B:2722:G:C8	2.81	0.46
1:B:2687:U:O2'	1:B:2688:G:H5'	2.16	0.46
1:B:2690:U:H1'	1:B:2727:A:N7	2.31	0.46
1:B:2772:C:H2'	1:B:2773:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2787:C:H2'	1:B:2788:C:C6	2.50	0.46
1:B:2806:C:H2'	1:B:2807:U:O5'	2.16	0.46
1:B:2869:G:C1'	1:B:2869:G:C8	2.83	0.46
1:B:2901:C:H2'	1:B:2902:C:C6	2.49	0.46
1:B:64:A:C1'	1:B:65:U:C5	2.97	0.46
1:B:271:G:P	1:B:427:U:H5'	2.56	0.46
1:B:316:C:C4'	1:B:317:G:OP2	2.62	0.46
1:B:340:A:N1	1:B:346:A:N3	2.63	0.46
1:B:435:C:H1'	1:B:437:U:C5	2.51	0.46
1:B:541:A:H2'	1:B:542:C:C6	2.50	0.46
1:B:670:A:O3'	1:B:671:C:O5'	2.30	0.46
1:B:691:C:H2'	1:B:692:C:H6	1.80	0.46
1:B:693:A:H2'	1:B:694:U:H6	1.80	0.46
1:B:766:U:H2'	1:B:767:U:H6	1.79	0.46
1:B:777:G:N2	1:B:789:A:OP1	2.49	0.46
1:B:801:G:C2	1:B:1253:A:N7	2.83	0.46
1:B:804:A:C5'	1:B:1254:A:N6	2.78	0.46
1:B:820:A:C1'	1:B:820:A:C8	2.80	0.46
1:B:883:G:H2'	1:B:884:U:H6	1.79	0.46
1:B:942:G:C1'	1:B:942:G:C8	2.82	0.46
1:B:954:G:H2'	1:B:955:U:H6	1.79	0.46
1:B:998:C:H2'	1:B:999:U:H6	1.80	0.46
1:B:1017:G:O3'	1:B:2752:C:OP1	2.34	0.46
1:B:1018:U:H2'	1:B:1019:U:H6	1.79	0.46
1:B:1153:C:OP1	1:B:1156:A:C8	2.68	0.46
1:B:1216:G:H2'	1:B:1217:U:H6	1.79	0.46
1:B:1235:G:H21	1:B:1236:G:H22	1.64	0.46
1:B:1267:U:H5	1:B:1647:U:H3'	1.79	0.46
1:B:1314:C:H2'	1:B:1315:C:H6	1.80	0.46
1:B:1393:A:N3	1:B:1393:A:H2'	2.30	0.46
1:B:1417:C:C3'	1:B:1635:A:C2	2.99	0.46
1:B:1442:U:H2'	1:B:1443:U:H6	1.79	0.46
1:B:1549:A:H2'	1:B:1550:C:H6	1.80	0.46
1:B:1577:C:H2'	1:B:1578:U:H6	1.79	0.46
1:B:1577:C:P	1:B:1579:A:N7	2.88	0.46
1:B:1668:A:P	1:B:1669:A:C4'	3.04	0.46
1:B:1727:C:C3'	1:B:1728:C:H5"	2.45	0.46
1:B:1803:A:H3'	1:B:1804:C:C4'	2.45	0.46
1:B:1835:G:H2'	1:B:1836:C:H6	1.80	0.46
1:B:1857:G:N2	1:B:2230:G:O2'	2.49	0.46
1:B:1887:C:O3'	1:B:1887:C:O5'	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1901:A:H2'	1:B:1902:C:H6	1.80	0.46
1:B:1932:A:C3'	1:B:1941:C:N1	2.78	0.46
1:B:1932:A:C4	1:B:1937:A:H3'	2.50	0.46
1:B:1936:A:C3'	1:B:1938:A:H8	2.29	0.46
1:B:2046:G:H2'	1:B:2047:C:H6	1.80	0.46
1:B:2055:C:C5'	1:B:2055:C:C3'	2.80	0.46
1:B:2060:A:C8	1:B:2559:C:O4'	2.69	0.46
1:B:2071:A:H2'	1:B:2072:C:C6	2.49	0.46
1:B:2117:A:H2'	1:B:2172:U:C5	2.35	0.46
1:B:2379:G:H2'	1:B:2380:C:H6	1.80	0.46
1:B:2461:A:H2'	1:B:2462:C:H6	1.80	0.46
1:B:2464:G:H2'	1:B:2465:C:H6	1.80	0.46
1:B:2501:C:O2	1:B:2575:C:C4	2.68	0.46
1:B:2582:G:OP1	1:B:2583:G:N7	2.49	0.46
1:B:2636:C:H2'	1:B:2637:U:H6	1.79	0.46
1:B:2677:G:H2'	1:B:2678:C:H6	1.80	0.46
1:B:2690:U:O5'	1:B:2691:C:C5	2.68	0.46
1:B:2703:C:N4	1:B:2704:C:N3	2.63	0.46
1:B:2879:A:O2'	1:B:2880:C:P	2.74	0.46
1:B:71:A:N6	1:B:119:A:N6	2.61	0.46
1:B:72:U:H5'	1:B:118:A:C2	2.51	0.46
1:B:98:G:C5	1:B:102:U:H5	2.30	0.46
1:B:100:U:O4'	1:B:119:A:C4'	2.62	0.46
1:B:124:G:H3'	1:B:125:A:C5'	2.31	0.46
1:B:134:G:H2'	1:B:135:U:H6	1.79	0.46
1:B:141:G:O2'	1:B:1331:G:O2'	2.33	0.46
1:B:183:C:O2	1:B:185:G:OP1	2.34	0.46
1:B:360:U:O3'	1:B:361:G:N2	2.49	0.46
1:B:433:C:H2'	1:B:434:U:H6	1.79	0.46
1:B:487:C:H42	1:B:491:G:H1	1.63	0.46
1:B:518:G:H2'	1:B:519:U:H6	1.79	0.46
1:B:600:G:H2'	1:B:601:C:C6	2.50	0.46
1:B:672:C:O2'	1:B:673:C:OP1	2.34	0.46
1:B:674:G:N2	1:B:1247:A:O2'	2.48	0.46
1:B:690:G:H2'	1:B:691:C:H6	1.80	0.46
1:B:799:G:H5"	1:B:800:A:N3	2.30	0.46
1:B:819:A:C8	1:B:820:A:H1'	2.51	0.46
1:B:1220:G:H2'	1:B:1221:C:H6	1.80	0.46
1:B:1230:A:H2'	1:B:1231:U:H6	1.79	0.46
1:B:1264:A:H3'	1:B:1265:A:H5'	1.98	0.46
1:B:1274:A:P	1:B:1275:A:OP2	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1305:C:H2'	1:B:1306:C:H6	1.80	0.46
1:B:1352:U:N3	1:B:1374:G:OP2	2.47	0.46
1:B:1361:G:H2'	1:B:1362:C:C6	2.50	0.46
1:B:1417:C:C1'	1:B:1466:U:C4'	2.92	0.46
1:B:1517:G:H2'	1:B:1518:C:H6	1.80	0.46
1:B:1552:A:H2'	1:B:1553:A:OP2	2.16	0.46
1:B:1570:A:N1	1:B:1573:G:P	2.88	0.46
1:B:1572:A:C6	1:B:1574:C:C5	2.84	0.46
1:B:1624:U:H2'	1:B:1625:C:H6	1.80	0.46
1:B:1632:A:N1	1:B:1633:G:O6	2.49	0.46
1:B:1679:A:N1	1:B:1690:A:N9	2.63	0.46
1:B:1711:A:H2'	1:B:1712:U:H6	1.80	0.46
1:B:1734:G:OP2	1:B:1739:A:C6	2.69	0.46
1:B:1737:G:N7	1:B:1740:G:O5'	2.49	0.46
1:B:1803:A:H5"	1:B:1804:C:O4'	2.16	0.46
1:B:1809:A:H3'	1:B:1810:A:C8	2.50	0.46
1:B:1855:U:O2	1:B:1884:G:C2'	2.64	0.46
1:B:1919:A:H2'	1:B:1920:C:H6	1.80	0.46
1:B:1934:C:OP1	1:B:1935:G:O4'	2.34	0.46
1:B:2043:C:H2'	1:B:2044:C:H6	1.80	0.46
1:B:2060:A:C1'	1:B:2060:A:C8	2.86	0.46
1:B:2073:C:H2'	1:B:2074:U:H6	1.79	0.46
1:B:2083:G:H2'	1:B:2084:C:H6	1.80	0.46
1:B:2090:A:H2'	1:B:2091:C:H6	1.80	0.46
1:B:2107:G:C8	1:B:2112:G:OP1	2.69	0.46
1:B:2160:C:H2'	1:B:2161:C:H6	1.80	0.46
1:B:2168:G:H3'	1:B:2168:G:P	2.55	0.46
1:B:2299:U:H2'	1:B:2300:C:H6	1.80	0.46
1:B:2401:U:OP1	1:B:2407:A:P	2.74	0.46
1:B:2556:C:N3	1:B:2558:C:C5'	2.79	0.46
1:B:2592:G:H2'	1:B:2593:U:H6	1.79	0.46
1:B:2616:C:H2'	1:B:2617:U:H6	1.80	0.46
1:B:2679:A:H2'	1:B:2680:U:H6	1.80	0.46
1:B:2727:A:H2'	1:B:2728:U:H6	1.80	0.46
1:B:2814:A:H2'	1:B:2815:C:H6	1.80	0.46
1:B:2888:C:H2'	1:B:2889:C:H6	1.80	0.46
1:B:12:U:P	1:B:1195:G:H2'	2.55	0.46
1:B:15:G:O5'	1:B:1256:G:N9	2.49	0.46
1:B:31:C:H2'	1:B:32:C:H6	1.80	0.46
1:B:71:A:O2'	1:B:113:U:H5'	2.13	0.46
1:B:73:A:O5'	1:B:100:U:O4	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:G:O6	1:B:98:G:C6	2.69	0.46
1:B:84:A:N6	1:B:97:C:H41	2.08	0.46
1:B:203:A:O3'	1:B:203:A:C4'	2.54	0.46
1:B:214:G:C2'	1:B:256:A:O2'	2.64	0.46
1:B:257:C:C5	1:B:258:G:O4'	2.69	0.46
1:B:266:G:H2'	1:B:267:C:H6	1.80	0.46
1:B:300:A:O3'	1:B:301:G:OP1	2.30	0.46
1:B:362:A:H4'	1:B:428:A:O3'	2.16	0.46
1:B:366:C:OP1	1:B:367:G:C3'	2.63	0.46
1:B:453:A:C6	1:B:477:A:N1	2.83	0.46
1:B:524:G:C5'	1:B:525:U:OP2	2.48	0.46
1:B:571:U:C6	1:B:572:A:OP1	2.59	0.46
1:B:579:G:H2'	1:B:580:U:H6	1.80	0.46
1:B:607:U:C2	1:B:619:G:N2	2.84	0.46
1:B:725:G:H2'	1:B:726:G:OP1	2.16	0.46
1:B:764:A:N6	1:B:1948:G:C4	2.82	0.46
1:B:815:C:H2'	1:B:816:C:H6	1.80	0.46
1:B:836:G:C1'	1:B:836:G:C8	2.81	0.46
1:B:947:A:H2'	1:B:948:C:H6	1.80	0.46
1:B:1046:A:O3'	1:B:1052:C:N4	2.37	0.46
1:B:1132:U:OP1	1:B:2753:A:N3	2.49	0.46
1:B:1155:A:HO2'	1:B:1156:A:H8	0.51	0.46
1:B:1269:A:H2'	1:B:1270:C:H6	1.80	0.46
1:B:1270:C:H2'	1:B:1648:U:C5	2.51	0.46
1:B:1362:C:H2'	1:B:1363:C:H6	1.80	0.46
1:B:1385:A:H2'	1:B:1386:C:H6	1.80	0.46
1:B:1523:U:OP1	1:B:1528:A:C4	2.69	0.46
1:B:1610:A:N6	1:B:1613:G:C3'	2.72	0.46
1:B:1634:A:C8	1:B:1635:A:OP2	2.67	0.46
1:B:1674:G:C4'	1:B:1678:A:C6	2.92	0.46
1:B:1684:G:H2'	1:B:1685:C:H6	1.80	0.46
1:B:1810:A:H3'	1:B:1811:G:H8	1.79	0.46
1:B:1853:A:O3'	1:B:1888:G:O5'	2.34	0.46
1:B:1856:U:C4'	1:B:1856:U:H5"	2.27	0.46
1:B:1884:G:C1'	1:B:1885:A:N3	2.60	0.46
1:B:1930:G:P	1:B:1934:C:O4'	2.74	0.46
1:B:2067:G:OP1	1:B:2439:A:OP1	2.33	0.46
1:B:2228:G:H2'	1:B:2229:U:H6	1.80	0.46
1:B:2284:A:H2'	1:B:2285:C:H6	1.80	0.46
1:B:2393:U:H5"	1:B:2395:C:H4'	0.75	0.46
1:B:2542:A:C1'	1:B:2565:A:C5	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2600:A:H2'	1:B:2601:C:H6	1.80	0.46
1:B:2690:U:C5'	1:B:2727:A:H1'	2.45	0.46
1:B:2697:G:H2'	1:B:2698:U:H6	1.80	0.46
1:B:2805:C:H2'	1:B:2806:C:C4'	2.46	0.46
1:B:2884:U:H5"	1:B:2890:G:N3	2.31	0.46
1:B:75:G:HO3'	1:B:100:U:H6	1.26	0.46
1:B:83:A:H5'	1:B:84:A:P	2.55	0.46
1:B:147:C:H2'	1:B:148:U:H6	1.79	0.46
1:B:201:C:O2	1:B:202:U:C3'	2.60	0.46
1:B:212:G:O2'	1:B:213:A:OP2	2.34	0.46
1:B:240:C:C2'	1:B:241:A:OP1	2.63	0.46
1:B:280:U:C3'	1:B:281:C:P	3.04	0.46
1:B:300:A:C5'	1:B:300:A:O4'	2.56	0.46
1:B:362:A:H5'	1:B:428:A:H5'	1.87	0.46
1:B:365:U:OP1	1:B:368:A:H3'	2.16	0.46
1:B:386:G:H2'	1:B:387:U:C6	2.51	0.46
1:B:426:C:H2'	1:B:427:U:H6	1.80	0.46
1:B:514:A:C4'	1:B:669:G:H2'	2.46	0.46
1:B:525:U:H5'	1:B:811:U:O2'	2.15	0.46
1:B:546:U:C2'	1:B:547:A:C8	2.95	0.46
1:B:557:C:H2'	1:B:558:U:H6	1.80	0.46
1:B:578:G:H1	1:B:803:U:H5'	1.80	0.46
1:B:717:C:N4	1:B:718:A:N6	2.64	0.46
1:B:775:G:H5"	1:B:776:G:OP2	2.16	0.46
1:B:805:G:H21	1:B:1251:C:H3'	1.67	0.46
1:B:813:U:H2'	1:B:814:C:H6	1.80	0.46
1:B:846:U:C2	1:B:846:U:C2'	2.98	0.46
1:B:902:C:H2'	1:B:903:C:H6	1.80	0.46
1:B:1131:G:C5'	1:B:2752:C:O2	2.64	0.46
1:B:1145:C:H2'	1:B:1146:C:H6	1.80	0.46
1:B:1285:A:H3'	1:B:1286:A:C8	2.51	0.46
1:B:1411:U:H2'	1:B:1412:U:H6	1.80	0.46
1:B:1484:U:H2'	1:B:1485:U:H6	1.80	0.46
1:B:1557:C:C2'	1:B:1558:C:C6	2.94	0.46
1:B:1570:A:H2'	1:B:1572:A:O5'	2.16	0.46
1:B:1668:A:O2'	1:B:1753:G:N2	2.47	0.46
1:B:1689:A:C8	1:B:1692:U:OP2	2.69	0.46
1:B:1695:G:N9	1:B:2704:C:O2	2.49	0.46
1:B:1718:G:H3'	1:B:1720:U:O4'	2.12	0.46
1:B:1780:A:N7	1:B:2544:G:O2'	2.43	0.46
1:B:1853:A:O4'	1:B:1855:U:N1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1884:G:H4'	1:B:1885:A:O3'	2.16	0.46
1:B:1933:G:C1'	1:B:1935:G:N2	2.70	0.46
1:B:2077:A:N6	1:B:2430:A:O2'	2.49	0.46
1:B:2263:C:H2'	1:B:2264:C:H6	1.80	0.46
1:B:2287:A:C5'	1:B:2288:A:O4'	2.64	0.46
1:B:2367:G:H2'	1:B:2368:C:H6	1.80	0.46
1:B:2373:G:H2'	1:B:2374:C:H6	1.80	0.46
1:B:2488:G:H5"	1:B:2575:C:H5	1.75	0.46
1:B:2506:U:H2'	1:B:2507:C:H6	1.80	0.46
1:B:2542:A:O3'	1:B:2564:A:O2'	2.33	0.46
1:B:2700:A:H2'	1:B:2701:U:H6	1.80	0.46
1:B:2762:C:O2'	1:B:2765:A:N1	2.46	0.46
1:B:2840:C:H2'	1:B:2841:C:H6	1.80	0.46
1:B:11:C:H3'	1:B:1195:G:C5	2.49	0.45
1:B:14:A:O3'	1:B:1256:G:N7	2.48	0.45
1:B:39:G:H2'	1:B:40:U:H6	1.79	0.45
1:B:105:C:H2'	1:B:106:C:H6	1.80	0.45
1:B:139:U:C5	1:B:1551:A:C5'	2.95	0.45
1:B:191:A:H2'	1:B:192:C:H6	1.80	0.45
1:B:315:G:H2'	1:B:316:C:H6	1.80	0.45
1:B:324:A:C5'	1:B:324:A:O4'	2.60	0.45
1:B:391:A:C8	1:B:392:U:C5	3.04	0.45
1:B:457:A:O3'	1:B:459:U:O5'	2.34	0.45
1:B:469:G:N3	1:B:469:G:H2'	2.30	0.45
1:B:529:A:C3'	1:B:948:C:H4'	2.46	0.45
1:B:673:C:H3'	1:B:1249:U:OP2	2.15	0.45
1:B:757:G:C2	1:B:1951:U:OP2	2.69	0.45
1:B:804:A:C4'	1:B:1254:A:H61	2.28	0.45
1:B:936:A:H2'	1:B:937:C:H6	1.80	0.45
1:B:941:A:H5"	1:B:946:C:O2'	2.16	0.45
1:B:985:C:H2'	1:B:986:C:H6	1.80	0.45
1:B:1009:A:H4'	1:B:1010:A:OP1	2.15	0.45
1:B:1022:G:H22	1:B:2483:C:N4	2.11	0.45
1:B:1049:C:C5	1:B:1050:A:C2'	3.00	0.45
1:B:1117:C:H2'	1:B:1118:C:H6	1.80	0.45
1:B:1128:G:C1'	1:B:1128:G:C4	2.84	0.45
1:B:1158:C:H2'	1:B:1159:U:H6	1.80	0.45
1:B:1281:G:N7	1:B:1282:U:C5	2.84	0.45
1:B:1349:C:H2'	1:B:1350:C:H6	1.80	0.45
1:B:1394:U:O3'	1:B:1396:U:OP1	2.34	0.45
1:B:1405:U:H2'	1:B:1406:U:H6	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1417:C:C4'	1:B:1466:U:H5"	2.45	0.45
1:B:1427:A:P	1:B:1572:A:H2'	2.56	0.45
1:B:1427:A:HO2'	1:B:1430:C:C4'	2.23	0.45
1:B:1459:G:O2'	1:B:1460:U:O5'	2.34	0.45
1:B:1470:A:C5'	1:B:1472:C:C5'	2.77	0.45
1:B:1477:A:C8	1:B:1478:G:OP1	2.69	0.45
1:B:1510:G:C1'	1:B:1510:G:C8	2.81	0.45
1:B:1690:A:P	1:B:1691:C:H5'	2.56	0.45
1:B:1692:U:C1'	1:B:1697:G:HO2'	2.28	0.45
1:B:1735:A:H2'	1:B:1736:U:H6	1.79	0.45
1:B:1755:A:C5	1:B:1765:U:C5'	2.99	0.45
1:B:1815:A:C4	1:B:1817:G:N2	2.83	0.45
1:B:1856:U:O2'	1:B:1890:A:N1	2.49	0.45
1:B:1863:G:H2'	1:B:1864:U:H6	1.80	0.45
1:B:1906:G:H5'	1:B:1927:A:O3'	2.16	0.45
1:B:1933:G:O3'	1:B:1941:C:C6	2.69	0.45
1:B:2061:G:N7	1:B:2551:C:C2	2.84	0.45
1:B:2076:U:H5'	1:B:2431:U:OP2	2.16	0.45
1:B:2265:U:N1	1:B:2267:A:H5"	2.30	0.45
1:B:2415:G:H2'	1:B:2416:C:H6	1.80	0.45
1:B:2718:G:C3'	1:B:2720:U:N3	2.79	0.45
1:B:2734:A:H4'	1:B:2775:G:C5	2.51	0.45
1:B:2741:A:HO2'	1:B:2741:A:H8	1.62	0.45
1:B:2767:C:H2'	1:B:2768:U:H6	1.80	0.45
1:B:84:A:N6	1:B:97:C:H42	2.04	0.45
1:B:179:C:O2'	1:B:197:A:O4'	2.34	0.45
1:B:225:C:P	1:B:281:C:H5	2.39	0.45
1:B:415:A:H2'	1:B:416:U:H6	1.80	0.45
1:B:522:A:H2'	1:B:523:C:H6	1.80	0.45
1:B:837:C:O2'	1:B:976:G:P	2.74	0.45
1:B:859:G:C4	1:B:912:C:N4	2.83	0.45
1:B:967:U:H2'	1:B:968:C:H6	1.80	0.45
1:B:1009:A:H1'	1:B:1011:G:H1'	1.98	0.45
1:B:1010:A:H5"	1:B:1011:G:C8	2.46	0.45
1:B:1285:A:C2	1:B:2012:G:O5'	2.69	0.45
1:B:1290:C:H2'	1:B:1291:C:H6	1.80	0.45
1:B:1445:G:O3'	1:B:1543:G:O6	2.34	0.45
1:B:1449:G:OP1	1:B:1587:G:C3'	2.64	0.45
1:B:1483:G:H2'	1:B:1484:U:H6	1.79	0.45
1:B:1523:U:C2	1:B:1523:U:C2'	3.00	0.45
1:B:1576:U:H2'	1:B:1577:C:H6	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1584:U:N3	1:B:1586:A:H4'	2.30	0.45
1:B:1718:G:C3'	1:B:1720:U:O4'	2.65	0.45
1:B:1720:U:H3'	1:B:1721:G:C5'	2.46	0.45
1:B:1847:A:C6	1:B:2232:C:H4'	2.51	0.45
1:B:1905:C:H2'	1:B:1928:A:O4'	2.16	0.45
1:B:1915:5MU:C5M	1:B:1915:5MU:OP2	2.64	0.45
1:B:1926:U:HO2'	1:B:1927:A:P	2.38	0.45
1:B:1957:C:H2'	1:B:1958:C:H6	1.80	0.45
1:B:1985:C:H2'	1:B:1986:C:H6	1.80	0.45
1:B:2259:U:H2'	1:B:2260:C:H6	1.80	0.45
1:B:2272:U:N3	1:B:2273:A:C5	2.84	0.45
1:B:2365:G:O3'	1:B:2366:A:O4'	2.34	0.45
1:B:2374:C:C3'	1:B:2413:G:C5'	2.84	0.45
1:B:2658:C:N4	1:B:2664:G:N2	2.63	0.45
1:B:2685:G:N3	1:B:2722:G:O3'	2.50	0.45
1:B:2771:C:H2'	1:B:2772:C:H6	1.80	0.45
1:B:2819:G:OP2	1:B:2820:A:C8	2.70	0.45
1:B:2829:A:H2'	1:B:2830:C:H6	1.80	0.45
1:B:2833:U:P	1:B:2834:G:H5'	2.56	0.45
1:B:2865:U:H2'	1:B:2866:U:H6	1.79	0.45
1:B:2866:U:H2'	1:B:2867:G:N3	2.30	0.45
1:B:2895:G:H2'	1:B:2896:C:H6	1.80	0.45
1:B:32:C:N4	1:B:33:C:C5	2.84	0.45
1:B:72:U:H5"	1:B:73:A:OP2	2.16	0.45
1:B:72:U:P	1:B:114:U:OP2	2.74	0.45
1:B:76:C:C4'	1:B:120:U:OP2	2.64	0.45
1:B:96:C:H2'	1:B:97:C:H6	1.80	0.45
1:B:220:G:H2'	1:B:277:G:C4'	2.46	0.45
1:B:227:A:H1'	1:B:355:U:OP1	2.16	0.45
1:B:244:A:N9	1:B:249:C:OP1	2.49	0.45
1:B:284:U:O3'	1:B:402:A:OP1	2.35	0.45
1:B:317:G:H2'	1:B:318:C:H6	1.80	0.45
1:B:350:G:H2'	1:B:351:C:H6	1.80	0.45
1:B:370:G:OP2	1:B:429:A:N7	2.49	0.45
1:B:393:C:H2'	1:B:394:C:H6	1.80	0.45
1:B:421:C:N4	1:B:422:A:N6	2.64	0.45
1:B:452:G:H5'	1:B:453:A:O5'	2.12	0.45
1:B:618:G:C3'	1:B:619:G:C5'	2.68	0.45
1:B:674:G:H4'	1:B:1250:G:OP1	2.16	0.45
1:B:810:U:H5	1:B:1197:G:N7	2.13	0.45
1:B:845:A:O4'	1:B:846:U:C4'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:876:C:N4	1:B:900:A:O5'	2.49	0.45
1:B:918:A:H1'	1:B:2597:G:OP1	2.16	0.45
1:B:966:G:H2'	1:B:967:U:H6	1.80	0.45
1:B:1053:C:O2'	1:B:1054:A:H5'	2.15	0.45
1:B:1174:U:C3'	1:B:1175:A:H8	2.29	0.45
1:B:1186:G:H2'	1:B:1186:G:N3	2.30	0.45
1:B:1242:U:H5'	1:B:1243:C:C4'	2.45	0.45
1:B:1377:G:P	1:B:1379:U:C6	3.09	0.45
1:B:1432:G:C8	1:B:1433:A:N7	2.84	0.45
1:B:1461:C:H2'	1:B:1462:C:H6	1.80	0.45
1:B:1465:G:O4'	1:B:1466:U:O4'	2.35	0.45
1:B:1588:G:H2'	1:B:1589:U:H6	1.80	0.45
1:B:1853:A:C8	1:B:1887:C:OP2	2.70	0.45
1:B:1879:C:H2'	1:B:1880:U:H6	1.79	0.45
1:B:1905:C:HO3'	1:B:1906:G:P	2.38	0.45
1:B:1964:G:O2'	1:B:1965:C:C6	2.69	0.45
1:B:2076:U:H4'	1:B:2077:A:H8	1.52	0.45
1:B:2442:C:C6	1:B:2443:C:C5	3.04	0.45
1:B:2455:G:H2'	1:B:2456:C:H6	1.80	0.45
1:B:2519:U:H2'	1:B:2520:C:H6	1.80	0.45
1:B:2704:C:H41	1:B:2705:A:N6	2.12	0.45
1:B:2751:G:C5'	1:B:2751:G:C3'	2.83	0.45
1:B:2756:U:H6	1:B:2756:U:OP2	1.99	0.45
1:B:2800:A:H62	1:B:2892:G:H22	1.62	0.45
1:B:2821:A:N9	1:B:2823:A:OP2	2.50	0.45
1:B:2849:U:C5'	1:B:2849:U:HO5'	2.14	0.45
1:B:2884:U:H5"	1:B:2890:G:C2	2.51	0.45
1:B:34:U:H3'	1:B:35:G:C5'	2.43	0.45
1:B:119:A:C5'	1:B:119:A:H4'	2.24	0.45
1:B:244:A:H1'	1:B:249:C:P	2.55	0.45
1:B:471:A:C2	1:B:677:A:N7	2.83	0.45
1:B:500:G:C1'	1:B:500:G:C8	2.85	0.45
1:B:500:G:O2'	1:B:505:A:H1'	2.16	0.45
1:B:543:G:H2'	1:B:544:C:H6	1.80	0.45
1:B:546:U:C2'	1:B:547:A:H8	2.27	0.45
1:B:559:G:H2'	1:B:560:C:H6	1.80	0.45
1:B:564:C:C2	1:B:564:C:C2'	3.00	0.45
1:B:568:U:H2'	1:B:569:U:OP2	2.17	0.45
1:B:576:U:O2	1:B:576:U:C2'	2.63	0.45
1:B:576:U:C5'	1:B:2041:U:C4	2.99	0.45
1:B:608:A:OP2	1:B:609:A:C3'	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:659:G:H2'	1:B:660:C:H6	1.80	0.45
1:B:805:G:O6	1:B:806:C:C2	2.70	0.45
1:B:807:U:H2'	1:B:808:G:OP1	2.17	0.45
1:B:820:A:N3	1:B:2628:C:H1'	2.31	0.45
1:B:861:A:C4'	1:B:862:G:O5'	2.64	0.45
1:B:1151:A:H2'	1:B:1152:C:H6	1.80	0.45
1:B:1203:U:N3	1:B:1241:A:C5'	2.79	0.45
1:B:1284:A:C5'	1:B:2012:G:N9	2.79	0.45
1:B:1311:G:O2'	1:B:1640:A:C2	2.67	0.45
1:B:1342:A:H2'	1:B:1343:G:C5'	2.30	0.45
1:B:1358:G:C1'	1:B:1358:G:C8	2.83	0.45
1:B:1364:G:C2'	1:B:1367:A:H61	2.30	0.45
1:B:1425:G:O5'	1:B:1565:C:O2'	2.34	0.45
1:B:1452:G:P	1:B:1526:C:C6	3.08	0.45
1:B:1476:U:H5"	1:B:1516:G:P	2.57	0.45
1:B:1555:G:H2'	1:B:1556:C:H6	1.80	0.45
1:B:1565:C:C4'	1:B:1566:A:H5'	2.46	0.45
1:B:1658:C:OP2	1:B:1996:C:C5	2.70	0.45
1:B:1695:G:C3'	1:B:2703:C:N4	2.68	0.45
1:B:1698:A:C2'	1:B:1699:G:O4'	2.64	0.45
1:B:1722:A:OP2	1:B:1740:G:N1	2.49	0.45
1:B:1790:C:P	1:B:1971:U:P	3.15	0.45
1:B:1801:A:OP2	1:B:1803:A:H5'	2.15	0.45
1:B:1870:C:C6	1:B:2158:A:O3'	2.69	0.45
1:B:2104:C:H4'	1:B:2105:U:C6	2.37	0.45
1:B:2111:U:N1	1:B:2112:G:OP1	2.50	0.45
1:B:2262:U:H2'	1:B:2263:C:H6	1.80	0.45
1:B:2284:A:C8	1:B:2388:A:C5'	2.93	0.45
1:B:2554:U:O2	1:B:2554:U:H3'	2.16	0.45
1:B:2690:U:H4'	1:B:2727:A:C1'	2.46	0.45
1:B:2724:U:O2	1:B:2724:U:H2'	2.17	0.45
1:B:2844:G:O6	1:B:2866:U:OP1	2.34	0.45
1:B:2859:G:H2'	1:B:2860:A:C4'	2.46	0.45
1:B:137:U:C5	1:B:138:U:C6	3.04	0.45
1:B:189:G:O3'	1:B:190:A:O2'	2.22	0.45
1:B:245:G:H2'	1:B:246:C:H6	1.80	0.45
1:B:263:G:C8	1:B:362:A:O5'	2.69	0.45
1:B:270:A:H3'	1:B:271:G:C8	2.51	0.45
1:B:365:U:H2'	1:B:366:C:H6	1.80	0.45
1:B:500:G:C5'	1:B:503:A:C5'	2.95	0.45
1:B:563:A:N6	1:B:988:A:C6	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:610:C:H2'	1:B:611:C:H6	1.80	0.45
1:B:810:U:O2	1:B:810:U:C2'	2.64	0.45
1:B:844:A:OP2	1:B:845:A:C4'	2.62	0.45
1:B:916:G:C3'	1:B:917:A:H5"	2.38	0.45
1:B:930:G:O3'	1:B:983:A:H5"	2.17	0.45
1:B:1022:G:O5'	1:B:1023:U:OP2	2.34	0.45
1:B:1415:U:OP2	1:B:1583:A:N7	2.50	0.45
1:B:1422:G:OP2	1:B:1570:A:P	2.75	0.45
1:B:1428:C:C5'	1:B:1429:G:HO3'	2.27	0.45
1:B:1434:A:H2'	1:B:1434:A:N3	2.30	0.45
1:B:1449:G:P	1:B:1587:G:O2'	2.75	0.45
1:B:1605:C:O2'	1:B:1606:C:OP1	2.35	0.45
1:B:1653:G:C4'	1:B:1654:A:H5'	2.46	0.45
1:B:1838:C:H4'	1:B:1840:G:O4'	2.16	0.45
1:B:1870:C:C6	1:B:2159:G:P	3.09	0.45
1:B:1933:G:O3'	1:B:1941:C:N1	2.49	0.45
1:B:2063:C:H2'	1:B:2064:C:H6	1.80	0.45
1:B:2078:C:H2'	1:B:2079:U:H6	1.80	0.45
1:B:2462:C:H2'	1:B:2463:C:H6	1.80	0.45
1:B:2472:G:OP1	1:B:2472:G:H8	1.99	0.45
1:B:2504:U:O4	1:B:2580:U:OP2	2.35	0.45
1:B:2510:C:H2'	1:B:2511:U:H6	1.79	0.45
1:B:2552:U:C4'	1:B:2553:G:N7	2.80	0.45
1:B:2553:G:C1'	1:B:2553:G:C8	2.81	0.45
1:B:2574:G:C1'	1:B:2574:G:C8	2.82	0.45
1:B:2852:G:H2'	1:B:2853:C:H6	1.80	0.45
1:B:2866:U:O2'	1:B:2867:G:N3	2.39	0.45
1:B:12:U:P	1:B:585:G:O3'	2.74	0.45
1:B:27:G:C8	1:B:515:A:O2'	2.70	0.45
1:B:62:U:H1'	1:B:307:G:C1'	2.47	0.45
1:B:220:G:O2'	1:B:258:G:N7	2.48	0.45
1:B:410:G:O2'	1:B:2407:A:H5'	2.17	0.45
1:B:491:G:N3	1:B:491:G:H2'	2.32	0.45
1:B:570:G:H8	1:B:572:A:N3	2.14	0.45
1:B:572:A:P	1:B:2620:C:OP2	2.74	0.45
1:B:573:U:H3'	1:B:2044:C:OP2	2.14	0.45
1:B:645:C:C2	1:B:645:C:C2'	3.00	0.45
1:B:781:A:O3'	1:B:783:A:N1	2.50	0.45
1:B:844:A:O3'	1:B:847:U:H5	2.00	0.45
1:B:858:G:OP2	1:B:859:G:C5	2.70	0.45
1:B:906:U:C2	1:B:906:U:C2'	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:986:C:H2'	1:B:987:C:H6	1.80	0.45
1:B:1114:C:H2'	1:B:1115:G:C5'	2.47	0.45
1:B:1130:U:C2'	1:B:2752:C:H4'	2.46	0.45
1:B:1140:C:O2	1:B:1140:C:C2'	2.64	0.45
1:B:1242:U:P	1:B:1243:C:H1'	2.57	0.45
1:B:1302:A:H3'	1:B:1606:C:N3	2.26	0.45
1:B:1417:C:H1'	1:B:1466:U:H5"	1.96	0.45
1:B:1427:A:H8	1:B:1572:A:C2	2.34	0.45
1:B:1568:G:P	1:B:1570:A:C8	3.10	0.45
1:B:1633:G:C1'	1:B:1633:G:C8	2.80	0.45
1:B:1681:G:C1'	1:B:1681:G:C8	2.86	0.45
1:B:1853:A:C2	1:B:1855:U:C5'	2.99	0.45
1:B:1865:U:H3'	1:B:1866:A:P	2.57	0.45
1:B:2068:U:O5'	1:B:2068:U:C6	2.70	0.45
1:B:2075:U:H2'	1:B:2432:A:OP2	2.17	0.45
1:B:2296:U:O2'	1:B:2297:A:P	2.75	0.45
1:B:2453:A:H2'	1:B:2453:A:N3	2.32	0.45
1:B:2466:C:C6	1:B:2467:C:H5"	2.51	0.45
1:B:2819:G:OP2	1:B:2821:A:C6	2.70	0.45
1:B:2878:U:O5'	1:B:2879:A:OP2	2.34	0.45
1:B:28:A:C8	1:B:673:C:O3'	2.68	0.45
1:B:142:A:C1'	1:B:1324:G:H22	2.17	0.45
1:B:210:C:O2	1:B:217:A:H2	1.98	0.45
1:B:257:C:C2	1:B:258:G:C4'	3.00	0.45
1:B:447:A:N9	1:B:473:G:OP1	2.49	0.45
1:B:482:A:C6	1:B:513:A:C2	3.05	0.45
1:B:487:C:N4	1:B:491:G:H1	2.14	0.45
1:B:529:A:C4'	1:B:530:G:N7	2.79	0.45
1:B:532:A:H4'	1:B:533:G:H5"	1.97	0.45
1:B:603:A:N6	1:B:658:U:O2'	2.42	0.45
1:B:685:A:C3'	1:B:686:U:P	3.04	0.45
1:B:781:A:O3'	1:B:783:A:C6	2.70	0.45
1:B:802:A:C4'	1:B:1253:A:O3'	2.65	0.45
1:B:805:G:H2'	1:B:1252:G:P	2.56	0.45
1:B:840:C:O2'	1:B:963:U:O4'	2.34	0.45
1:B:863:A:H8	1:B:867:C:P	2.40	0.45
1:B:1010:A:O5'	1:B:1011:G:C8	2.69	0.45
1:B:1040:A:P	1:B:1049:C:H5	2.39	0.45
1:B:1123:C:H5	1:B:1126:A:H62	1.63	0.45
1:B:1271:G:H5'	1:B:1648:U:C5	2.51	0.45
1:B:1288:G:O3'	1:B:1288:G:H3'	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1358:G:H22	1:B:1359:A:H3'	1.76	0.45
1:B:1417:C:O4'	1:B:1466:U:C5'	2.53	0.45
1:B:1550:C:C5	1:B:1554:U:OP2	2.70	0.45
1:B:1556:C:H2'	1:B:1557:C:H6	1.80	0.45
1:B:1580:A:H1'	1:B:1632:A:H5"	1.84	0.45
1:B:1653:G:H3'	1:B:1654:A:C5'	2.46	0.45
1:B:1663:G:C5'	1:B:1664:A:OP2	2.47	0.45
1:B:1680:U:O2	1:B:1681:G:C5'	2.65	0.45
1:B:1702:G:C5'	1:B:1989:G:N7	2.79	0.45
1:B:1760:C:C5	1:B:1992:G:N2	2.84	0.45
1:B:1790:C:C5'	1:B:2443:C:H4'	2.45	0.45
1:B:1819:A:N6	1:B:1934:C:N4	2.60	0.45
1:B:1826:G:C4'	1:B:1967:C:OP1	2.65	0.45
1:B:1882:U:H2'	1:B:1883:U:C4'	2.47	0.45
1:B:1887:C:OP1	1:B:1888:G:N7	2.50	0.45
1:B:1940:U:H2'	1:B:1940:U:O2	2.17	0.45
1:B:2009:A:C3'	1:B:2010:G:P	2.99	0.45
1:B:2031:A:H2'	1:B:2032:G:H5'	1.98	0.45
1:B:2061:G:H5"	1:B:2446:G:N7	2.32	0.45
1:B:2103:C:O3'	1:B:2105:U:P	2.75	0.45
1:B:2128:G:H2'	1:B:2129:C:H6	1.80	0.45
1:B:2308:G:C2	1:B:2309:A:H8	2.34	0.45
1:B:2563:U:C2'	1:B:2565:A:C5'	2.72	0.45
1:B:2618:G:H2'	1:B:2619:C:H6	1.80	0.45
1:B:2713:U:C3'	1:B:2714:G:P	3.05	0.45
1:B:2726:A:C3'	1:B:2727:A:H5"	2.35	0.45
1:B:2751:G:C4'	1:B:2751:G:H5'	2.22	0.45
1:B:2804:U:H2'	1:B:2805:C:H6	1.80	0.45
1:B:15:G:O4'	1:B:1256:G:C4'	2.65	0.45
1:B:34:U:C4'	1:B:35:G:OP1	2.62	0.45
1:B:72:U:C2'	1:B:114:U:H5"	2.46	0.45
1:B:100:U:C1'	1:B:113:U:C5'	2.87	0.45
1:B:124:G:C2	1:B:125:A:C5'	2.82	0.45
1:B:141:G:H2'	1:B:1331:G:H1'	1.98	0.45
1:B:214:G:H4'	1:B:256:A:H2	1.81	0.45
1:B:403:U:O2	1:B:403:U:H3'	2.16	0.45
1:B:449:A:C5'	1:B:452:G:C1'	2.95	0.45
1:B:451:U:O4	1:B:465:G:OP2	2.35	0.45
1:B:455:C:H4'	1:B:655:A:C2'	2.46	0.45
1:B:464:U:H3'	1:B:467:G:O6	2.17	0.45
1:B:507:A:N9	1:B:1246:A:OP2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:507:A:N1	1:B:518:G:H5”	2.31	0.45
1:B:794:A:H2’	1:B:795:C:H6	1.80	0.45
1:B:820:A:C2	1:B:2628:C:H1’	2.51	0.45
1:B:920:A:H3’	1:B:921:C:H6	1.82	0.45
1:B:1049:C:N3	1:B:1050:A:N7	2.65	0.45
1:B:1376:C:O3’	1:B:1379:U:H6	1.96	0.45
1:B:1379:U:O2	1:B:1379:U:C2’	2.61	0.45
1:B:1417:C:O2	1:B:1467:U:OP1	2.33	0.45
1:B:1418:G:P	1:B:1635:A:H61	2.39	0.45
1:B:1477:A:C4’	1:B:1478:G:H5’	2.47	0.45
1:B:1522:A:C3’	1:B:1529:G:OP2	2.64	0.45
1:B:1570:A:N3	1:B:1572:A:P	2.90	0.45
1:B:1581:G:H1’	1:B:1633:G:P	2.53	0.45
1:B:1653:G:O2’	1:B:1654:A:H5’	2.17	0.45
1:B:1672:A:C2’	1:B:1673:G:O2’	2.65	0.45
1:B:1696:G:O5’	1:B:1697:G:H5’	2.17	0.45
1:B:1805:A:H2’	1:B:1806:C:H6	1.80	0.45
1:B:1825:U:H4’	1:B:1967:C:N4	2.31	0.45
1:B:1838:C:C5	1:B:1903:G:N2	2.85	0.45
1:B:1855:U:O2’	1:B:1884:G:H3’	2.17	0.45
1:B:1870:C:C1’	1:B:2159:G:H8	2.28	0.45
1:B:1884:G:H1’	1:B:1885:A:H2’	1.98	0.45
1:B:1946:U:O2’	1:B:1963:U:C6	2.70	0.45
1:B:2207:C:H2’	1:B:2208:C:H6	1.80	0.45
1:B:2454:G:C1’	1:B:2454:G:C8	2.81	0.45
1:B:2474:U:H2’	1:B:2475:C:O5’	2.17	0.45
1:B:2498:5MC:HM51	1:B:2658:C:OP1	2.17	0.45
1:B:2503:A:H4’	1:B:2504:U:O5’	2.17	0.45
1:B:2724:U:O3’	1:B:2725:A:H2	2.00	0.45
1:B:2806:C:O2’	1:B:2807:U:O3’	2.35	0.45
1:B:2885:G:O4’	1:B:2887:A:O3’	2.34	0.45
1:B:101:A:O2’	1:B:103:A:C4’	2.65	0.45
1:B:115:C:H2’	1:B:116:C:H6	1.80	0.45
1:B:120:U:C6	1:B:148:U:P	3.09	0.45
1:B:150:U:H2’	1:B:151:C:H6	1.80	0.45
1:B:263:G:C5’	1:B:359:G:O2’	2.65	0.45
1:B:310:A:N7	1:B:311:A:N7	2.65	0.45
1:B:390:U:N3	1:B:391:A:C6	2.84	0.45
1:B:458:G:C4’	1:B:594:U:OP1	2.64	0.45
1:B:461:C:H2’	1:B:462:C:H6	1.80	0.45
1:B:465:G:O4’	1:B:479:A:C2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:C:C5'	1:B:511:U:H1'	2.47	0.45
1:B:747:5MU:OP1	1:B:752:A:N1	2.50	0.45
1:B:771:G:H2'	1:B:772:C:H6	1.80	0.45
1:B:796:C:OP1	1:B:1253:A:C2	2.69	0.45
1:B:862:G:HO2'	1:B:863:A:C5'	2.29	0.45
1:B:899:A:H4'	1:B:902:C:N1	2.32	0.45
1:B:1050:A:O3'	1:B:1050:A:C2'	2.58	0.45
1:B:1260:A:H2'	1:B:1261:C:H6	1.80	0.45
1:B:1417:C:P	1:B:1637:A:H5'	2.56	0.45
1:B:1565:C:C4'	1:B:1566:A:C5'	2.93	0.45
1:B:1585:C:O5'	1:B:1586:A:OP2	2.34	0.45
1:B:1668:A:C6	1:B:1755:A:O5'	2.70	0.45
1:B:1712:U:C2'	1:B:1713:A:C5'	2.95	0.45
1:B:1814:G:C2'	1:B:1815:A:H3'	2.42	0.45
1:B:1818:U:C5	1:B:1899:A:OP2	2.70	0.45
1:B:1826:G:H5'	1:B:1966:A:C2'	2.44	0.45
1:B:1870:C:N4	1:B:1871:A:H62	2.14	0.45
1:B:1891:G:N2	1:B:1892:C:C1'	2.80	0.45
1:B:1940:U:H3	1:B:2062:A:H8	1.65	0.45
1:B:2379:G:C1'	1:B:2393:U:C1'	2.71	0.45
1:B:2419:U:H2'	1:B:2420:C:H6	1.80	0.45
1:B:2481:G:H5"	1:B:2484:G:C8	2.52	0.45
1:B:2823:A:H2'	1:B:2824:C:C4'	2.47	0.45
1:B:9:G:C2'	1:B:526:A:C3'	2.95	0.45
1:B:12:U:HO2'	1:B:813:U:H1'	1.75	0.45
1:B:40:U:H2'	1:B:41:C:H6	1.80	0.45
1:B:77:G:C5'	1:B:120:U:C6	2.98	0.45
1:B:111:A:OP2	1:B:111:A:C5'	2.65	0.45
1:B:135:U:H5'	1:B:169:G:P	2.57	0.45
1:B:207:A:P	1:B:208:C:OP1	2.75	0.45
1:B:330:A:C4	1:B:334:C:O2	2.69	0.45
1:B:489:G:C1'	1:B:489:G:C8	2.83	0.45
1:B:492:A:H3'	1:B:493:G:H8	1.82	0.45
1:B:574:A:C8	1:B:2042:A:P	3.06	0.45
1:B:583:G:H2'	1:B:584:C:H6	1.80	0.45
1:B:804:A:C4'	1:B:804:A:H5"	2.19	0.45
1:B:837:C:H4'	1:B:975:A:C3'	2.46	0.45
1:B:859:G:O4'	1:B:859:G:H5'	2.10	0.45
1:B:861:A:N7	1:B:911:A:N3	2.61	0.45
1:B:863:A:C2'	1:B:865:C:OP1	2.64	0.45
1:B:871:U:O2'	1:B:872:U:C5	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1023:U:O2'	1:B:2465:C:C4	2.67	0.45
1:B:1174:U:C3'	1:B:1175:A:C8	3.00	0.45
1:B:1297:C:H2'	1:B:1298:C:H6	1.80	0.45
1:B:1299:G:N1	1:B:1643:G:C1'	2.78	0.45
1:B:1415:U:C6	1:B:1583:A:C2	3.05	0.45
1:B:1610:A:O3'	1:B:1610:A:C4'	2.55	0.45
1:B:1615:C:OP1	1:B:1615:C:C5	2.69	0.45
1:B:1673:G:C1'	1:B:1673:G:C8	2.81	0.45
1:B:1690:A:C5	1:B:1691:C:O2'	2.67	0.45
1:B:1718:G:H3'	1:B:1720:U:C6	2.52	0.45
1:B:1736:U:C4	1:B:1739:A:O2'	2.50	0.45
1:B:1891:G:H3'	1:B:1892:C:C6	2.52	0.45
1:B:2132:U:C6	1:B:2133:G:C1'	2.97	0.45
1:B:2762:C:H5"	1:B:2763:G:P	2.57	0.45
1:B:2786:U:H2'	1:B:2787:C:H6	1.80	0.45
1:B:2820:A:C2'	1:B:2821:A:C3'	2.87	0.45
1:B:2838:G:H2'	1:B:2839:G:O4'	2.17	0.45
1:B:29:U:OP1	1:B:1252:G:O2'	2.21	0.44
1:B:44:A:C2	1:B:436:C:N4	2.85	0.44
1:B:46:G:C4'	1:B:46:G:H5"	2.21	0.44
1:B:52:A:C5'	1:B:176:A:C2	3.00	0.44
1:B:98:G:HO2'	1:B:103:A:C5'	2.30	0.44
1:B:99:U:O3'	1:B:102:U:N1	2.50	0.44
1:B:142:A:H2'	1:B:143:C:H6	1.80	0.44
1:B:195:A:O2'	1:B:196:A:N7	2.48	0.44
1:B:228:C:O5'	1:B:229:C:C5	2.70	0.44
1:B:240:C:H5"	1:B:275:C:O3'	2.17	0.44
1:B:271:G:C3'	1:B:2156:G:O6	2.64	0.44
1:B:340:A:C2	1:B:346:A:O2'	2.68	0.44
1:B:458:G:O3'	1:B:458:G:P	2.75	0.44
1:B:488:G:O3'	1:B:509:C:N3	2.50	0.44
1:B:514:A:C5'	1:B:669:G:C2'	2.85	0.44
1:B:675:A:H3'	1:B:676:A:O4'	2.17	0.44
1:B:745:7MG:C4'	1:B:748:G:HO2'	2.30	0.44
1:B:846:U:C6	1:B:848:C:C5	3.05	0.44
1:B:912:C:O2'	1:B:913:U:H4'	2.16	0.44
1:B:1026:G:N2	1:B:1027:A:H5"	2.30	0.44
1:B:1040:A:H8	1:B:1040:A:P	2.40	0.44
1:B:1132:U:O4'	1:B:2753:A:C6	2.70	0.44
1:B:1239:G:N7	1:B:1241:A:N7	2.65	0.44
1:B:1286:A:N3	1:B:2011:U:O4'	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1292:G:OP1	1:B:1310:G:N3	2.50	0.44
1:B:1294:U:H2'	1:B:1295:C:C5'	2.43	0.44
1:B:1310:G:N7	1:B:1644:C:OP1	2.50	0.44
1:B:1390:U:C6	1:B:1390:U:OP2	2.70	0.44
1:B:1472:C:O2'	1:B:1528:A:C4	2.70	0.44
1:B:1477:A:N9	1:B:1478:G:C5'	2.81	0.44
1:B:1559:U:C3'	1:B:1561:C:N4	2.75	0.44
1:B:1627:G:C4	1:B:1641:A:C8	3.04	0.44
1:B:1671:U:C6	1:B:1751:U:OP2	2.70	0.44
1:B:1674:G:C8	1:B:1674:G:C1'	2.86	0.44
1:B:1808:A:N6	1:B:1809:A:N6	2.65	0.44
1:B:1891:G:H3'	1:B:1892:C:H6	1.82	0.44
1:B:1932:A:N9	1:B:1937:A:O3'	2.50	0.44
1:B:2042:A:C4'	1:B:2043:C:H5'	2.41	0.44
1:B:2055:C:O5'	1:B:2056:G:OP1	2.35	0.44
1:B:2570:G:H2'	1:B:2571:U:H6	1.80	0.44
1:B:2675:A:H2'	1:B:2675:A:N3	2.32	0.44
1:B:2902:C:OP2	1:B:2903:U:O4'	2.34	0.44
1:B:10:A:N3	1:B:10:A:H3'	2.32	0.44
1:B:65:U:H2'	1:B:66:C:H6	1.80	0.44
1:B:137:U:C2	1:B:1325:U:H5"	2.51	0.44
1:B:222:A:P	1:B:277:G:O2'	2.76	0.44
1:B:270:A:N7	1:B:2157:G:H1'	2.31	0.44
1:B:423:A:O3'	1:B:424:G:OP1	2.35	0.44
1:B:465:G:HO2'	1:B:466:A:H5'	1.78	0.44
1:B:525:U:O4'	1:B:587:C:OP2	2.34	0.44
1:B:529:A:OP2	1:B:530:G:O6	2.35	0.44
1:B:539:G:P	1:B:969:G:OP1	2.75	0.44
1:B:781:A:N7	1:B:785:G:C5'	2.81	0.44
1:B:1019:U:O4	1:B:1133:A:OP1	2.35	0.44
1:B:1026:G:O2'	1:B:1027:A:O4'	2.34	0.44
1:B:1079:C:H2'	1:B:1080:A:O4'	2.16	0.44
1:B:1135:C:O4'	1:B:1140:C:H3'	2.17	0.44
1:B:1288:G:C3'	1:B:1289:C:P	3.06	0.44
1:B:1348:C:C1'	1:B:1349:C:C5	2.98	0.44
1:B:1428:C:HO2'	1:B:1429:G:C5'	2.24	0.44
1:B:1451:C:C4'	1:B:1451:C:H5"	2.20	0.44
1:B:1477:A:C1'	1:B:1478:G:H5'	2.47	0.44
1:B:1674:G:N1	1:B:1700:A:H5"	2.33	0.44
1:B:1757:A:H2'	1:B:1758:U:OP2	2.17	0.44
1:B:1852:U:C2'	1:B:1857:G:N7	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1855:U:C1'	1:B:1884:G:H21	2.30	0.44
1:B:1905:C:O2	1:B:1928:A:C8	2.71	0.44
1:B:1932:A:HO5'	1:B:1935:G:C5'	2.26	0.44
1:B:2104:C:P	1:B:2105:U:P	3.15	0.44
1:B:2111:U:O2	1:B:2113:U:P	2.76	0.44
1:B:2113:U:C5	1:B:2119:A:O3'	2.70	0.44
1:B:2551:C:C5'	1:B:2552:U:OP2	2.52	0.44
1:B:2675:A:H4'	1:B:2676:C:C5	2.52	0.44
1:B:2689:U:OP2	1:B:2725:A:H5'	2.17	0.44
1:B:2805:C:C3'	1:B:2806:C:C4'	2.95	0.44
1:B:187:G:C4'	1:B:216:A:O2'	2.64	0.44
1:B:215:G:C4'	1:B:215:G:H5"	2.18	0.44
1:B:221:A:C8	1:B:223:A:N9	2.84	0.44
1:B:223:A:H2'	1:B:280:U:P	2.57	0.44
1:B:344:A:H2'	1:B:344:A:N3	2.32	0.44
1:B:402:A:O5'	1:B:403:U:O4	2.35	0.44
1:B:499:U:O2	1:B:500:G:C1'	2.65	0.44
1:B:602:A:N9	1:B:604:G:N7	2.64	0.44
1:B:608:A:C2'	1:B:610:C:H41	2.22	0.44
1:B:611:C:H3'	1:B:612:G:C5'	2.38	0.44
1:B:647:G:C8	1:B:653:U:O4'	2.70	0.44
1:B:674:G:H1	1:B:1247:A:C5'	2.29	0.44
1:B:757:G:N3	1:B:1951:U:H5'	2.33	0.44
1:B:875:G:C6	1:B:876:C:C5	3.05	0.44
1:B:983:A:C5	1:B:984:A:N1	2.85	0.44
1:B:1327:A:C4'	1:B:1327:A:H5"	2.20	0.44
1:B:1568:G:C3'	1:B:1570:A:C6	2.73	0.44
1:B:1582:C:H2'	1:B:1635:A:OP1	2.17	0.44
1:B:1693:U:N3	1:B:2705:A:H2	2.13	0.44
1:B:1927:A:H4'	1:B:1927:A:O3'	2.17	0.44
1:B:1940:U:O2'	1:B:2063:C:O5'	2.35	0.44
1:B:1954:G:O3'	1:B:1955:U:C5	2.70	0.44
1:B:1971:U:C4'	1:B:2443:C:P	3.05	0.44
1:B:2231:U:H2'	1:B:2232:C:H6	1.80	0.44
1:B:2377:A:C8	1:B:2394:C:C2'	2.96	0.44
1:B:2455:G:H8	1:B:2500:U:O4	2.00	0.44
1:B:2461:A:OP1	1:B:2482:A:N6	2.50	0.44
1:B:2586:U:O2'	1:B:2588:G:O6	2.35	0.44
1:B:2721:A:H2'	1:B:2721:A:N3	2.32	0.44
1:B:2724:U:H6	1:B:2724:U:OP1	2.00	0.44
1:B:2806:C:C1'	1:B:2807:U:O2'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2808:G:HO2'	1:B:2809:A:H8	1.57	0.44
1:B:2834:G:C1'	1:B:2834:G:C8	2.81	0.44
1:B:2869:G:C1'	1:B:2873:A:O5'	2.65	0.44
1:B:71:A:H2	1:B:112:U:N3	2.16	0.44
1:B:77:G:OP1	1:B:120:U:C4'	2.59	0.44
1:B:91:A:C2'	1:B:498:G:C6	2.99	0.44
1:B:98:G:C5'	1:B:103:A:O4'	2.65	0.44
1:B:101:A:O3'	1:B:101:A:O2'	2.35	0.44
1:B:124:G:C3'	1:B:125:A:C5'	2.85	0.44
1:B:176:A:C4'	1:B:177:G:H3'	2.41	0.44
1:B:214:G:C5'	1:B:256:A:H2	2.30	0.44
1:B:268:C:O2'	1:B:269:C:H5"	2.18	0.44
1:B:453:A:O5'	1:B:478:A:C1'	2.66	0.44
1:B:675:A:C3'	1:B:676:A:O4'	2.65	0.44
1:B:900:A:C3'	1:B:901:C:C5	3.00	0.44
1:B:978:G:H5"	1:B:979:A:P	2.56	0.44
1:B:1040:A:C2'	1:B:1041:G:N7	2.80	0.44
1:B:1234:U:OP2	1:B:1235:G:C5'	2.63	0.44
1:B:1288:G:C1'	1:B:1288:G:C8	2.82	0.44
1:B:1417:C:C1'	1:B:1466:U:C5'	2.93	0.44
1:B:1427:A:C8	1:B:1572:A:N1	2.86	0.44
1:B:1573:G:C6	1:B:1632:A:C2	3.06	0.44
1:B:1714:U:O3'	1:B:1738:G:N7	2.51	0.44
1:B:1816:C:H5"	1:B:1817:G:N3	2.32	0.44
1:B:1870:C:H41	1:B:2158:A:C5'	2.30	0.44
1:B:1884:G:C3'	1:B:1886:U:OP1	2.65	0.44
1:B:1932:A:N7	1:B:1937:A:P	2.91	0.44
1:B:2012:G:O2'	1:B:2013:A:P	2.75	0.44
1:B:2022:U:C2	1:B:2022:U:C2'	3.00	0.44
1:B:2107:G:O3'	1:B:2110:G:H2'	2.17	0.44
1:B:2117:A:C5	1:B:2171:A:O2'	2.70	0.44
1:B:2119:A:H5'	1:B:2120:G:OP2	2.17	0.44
1:B:2320:U:C3'	1:B:2321:U:C5'	2.95	0.44
1:B:2757:A:H2'	1:B:2758:A:C8	2.53	0.44
1:B:2848:G:H5'	1:B:2870:C:C5'	2.48	0.44
1:B:139:U:C6	1:B:1551:A:C5'	3.00	0.44
1:B:144:A:H4'	1:B:1327:A:O5'	2.17	0.44
1:B:215:G:H5'	1:B:218:A:O3'	2.17	0.44
1:B:224:U:P	1:B:281:C:OP2	2.76	0.44
1:B:360:U:C2	1:B:360:U:C2'	2.99	0.44
1:B:366:C:P	1:B:368:A:H1'	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:507:A:N6	1:B:1246:A:H62	1.92	0.44
1:B:706:A:HO2'	1:B:707:G:H8	0.62	0.44
1:B:781:A:N7	1:B:785:G:C3'	2.80	0.44
1:B:793:A:C3'	1:B:793:A:HO3'	2.16	0.44
1:B:805:G:N9	1:B:1252:G:H5"	2.33	0.44
1:B:837:C:C3'	1:B:975:A:H3'	2.48	0.44
1:B:961:C:C5'	1:B:962:G:O4'	2.64	0.44
1:B:1024:G:O2'	1:B:1025:G:OP2	2.36	0.44
1:B:1026:G:C5'	1:B:2477:U:OP2	2.66	0.44
1:B:1045:C:H5'	1:B:1112:G:N7	2.30	0.44
1:B:1129:A:C5	1:B:1130:U:OP1	2.71	0.44
1:B:1211:C:C5'	1:B:1212:G:H5"	2.44	0.44
1:B:1222:U:C2	1:B:1224:U:OP1	2.70	0.44
1:B:1266:G:C1'	1:B:1266:G:C8	2.80	0.44
1:B:1425:G:C2'	1:B:1567:G:C4'	2.95	0.44
1:B:1428:C:C5'	1:B:1430:C:P	3.03	0.44
1:B:1569:A:C8	1:B:1570:A:C2'	2.98	0.44
1:B:1692:U:H1'	1:B:1697:G:O2'	2.16	0.44
1:B:1715:G:O5'	1:B:1738:G:N7	2.51	0.44
1:B:1738:G:C1'	1:B:1738:G:C8	2.80	0.44
1:B:2060:A:H2'	1:B:2557:G:N2	2.32	0.44
1:B:2165:C:N3	1:B:2166:U:C5	2.86	0.44
1:B:2320:U:C3'	1:B:2321:U:H5'	2.48	0.44
1:B:2413:G:HO2'	1:B:2414:G:H5'	1.82	0.44
1:B:2686:G:H5'	1:B:2722:G:C2	2.53	0.44
1:B:15:G:C8	1:B:1255:U:N1	2.86	0.44
1:B:51:G:O4'	1:B:151:C:H1'	2.18	0.44
1:B:64:A:H1'	1:B:65:U:C4	2.53	0.44
1:B:71:A:C2	1:B:112:U:N3	2.86	0.44
1:B:165:A:C8	1:B:166:U:H5	2.30	0.44
1:B:220:G:H3'	1:B:277:G:O3'	2.17	0.44
1:B:227:A:C4'	1:B:229:C:H41	2.30	0.44
1:B:276:U:O2	1:B:276:U:H2'	2.17	0.44
1:B:331:C:O2'	1:B:333:G:C6	2.68	0.44
1:B:337:C:P	1:B:338:G:H5'	2.57	0.44
1:B:546:U:C2	1:B:547:A:N7	2.86	0.44
1:B:747:5MU:H5'	1:B:753:A:N3	2.33	0.44
1:B:776:G:C4'	1:B:777:G:O4'	2.64	0.44
1:B:1024:G:C2	1:B:2469:A:H2'	2.52	0.44
1:B:1125:G:C1'	1:B:1125:G:C8	2.80	0.44
1:B:1174:U:H3'	1:B:1175:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1455:G:OP2	1:B:1468:U:C4	2.70	0.44
1:B:1476:U:C6	1:B:1517:G:C8	3.05	0.44
1:B:1567:G:C1’	1:B:1567:G:C4	2.85	0.44
1:B:1720:U:H2’	1:B:1721:G:C5’	2.44	0.44
1:B:1810:A:OP2	1:B:1811:G:N7	2.51	0.44
1:B:1940:U:O2’	1:B:2062:A:O3’	2.34	0.44
1:B:1990:C:C3’	1:B:1991:U:H5’	2.46	0.44
1:B:2031:A:H2’	1:B:2032:G:C5’	2.48	0.44
1:B:2132:U:H2’	1:B:2133:G:OP1	2.18	0.44
1:B:2493:U:H5”	1:B:2494:G:H8	1.74	0.44
1:B:2690:U:O5’	1:B:2691:C:C6	2.70	0.44
1:B:2761:A:O2’	1:B:2764:A:OP2	2.31	0.44
1:B:2846:G:P	1:B:2848:G:C3’	3.02	0.44
1:B:2856:A:H2’	1:B:2857:G:H5”	1.97	0.44
1:B:98:G:C2’	1:B:102:U:C6	2.41	0.44
1:B:138:U:H2’	1:B:139:U:C5’	2.47	0.44
1:B:214:G:O3’	1:B:214:G:C2’	2.56	0.44
1:B:225:C:H3’	1:B:227:A:OP2	2.18	0.44
1:B:264:C:H5”	1:B:369:U:H1’	1.99	0.44
1:B:268:C:O2’	1:B:269:C:O5’	2.36	0.44
1:B:270:A:C3’	1:B:271:G:P	3.06	0.44
1:B:745:7MG:H5”	1:B:749:A:O4’	2.17	0.44
1:B:762:U:O2	1:B:762:U:O4’	2.35	0.44
1:B:805:G:C1’	1:B:1252:G:O5’	2.62	0.44
1:B:876:C:C4	1:B:900:A:C5’	3.00	0.44
1:B:934:U:H5”	1:B:982:C:H5”	1.98	0.44
1:B:1004:U:H2’	1:B:1010:A:P	2.51	0.44
1:B:1103:A:H8	1:B:1103:A:OP2	2.00	0.44
1:B:1289:C:O3’	1:B:1647:U:OP1	2.36	0.44
1:B:1360:G:OP1	1:B:1361:G:C8	2.71	0.44
1:B:1613:G:C1’	1:B:1613:G:C8	2.84	0.44
1:B:1719:G:O2’	1:B:1720:U:C5’	2.62	0.44
1:B:1792:G:O2’	1:B:1943:U:C2	2.62	0.44
1:B:1954:G:C8	1:B:2058:A:C5’	2.92	0.44
1:B:2021:C:O4’	1:B:2021:C:O2	2.35	0.44
1:B:2133:G:C5’	1:B:2134:A:N1	2.72	0.44
1:B:2663:G:C6	1:B:2664:G:C5	3.05	0.44
1:B:69:C:O3’	1:B:85:G:H4’	2.16	0.44
1:B:112:U:C2’	1:B:119:A:N9	2.81	0.44
1:B:158:U:C5	1:B:160:A:C6	3.06	0.44
1:B:221:A:C1’	1:B:221:A:C8	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:A:C1'	1:B:222:A:C8	2.95	0.44
1:B:221:A:H2'	1:B:222:A:O5'	2.18	0.44
1:B:230:G:N2	1:B:432:A:H5'	2.33	0.44
1:B:310:A:O3'	1:B:483:A:C5	2.70	0.44
1:B:330:A:H4'	1:B:331:C:P	2.58	0.44
1:B:386:G:C1'	1:B:386:G:C8	2.81	0.44
1:B:450:G:O2'	1:B:451:U:O3'	2.35	0.44
1:B:501:A:H1'	1:B:504:A:O3'	2.18	0.44
1:B:516:C:H5"	1:B:1248:G:H5"	1.99	0.44
1:B:588:U:O3'	1:B:589:U:C6	2.60	0.44
1:B:856:G:OP1	1:B:857:G:O5'	2.36	0.44
1:B:899:A:H4'	1:B:902:C:H1'	1.98	0.44
1:B:962:G:HO2'	1:B:963:U:H5'	1.83	0.44
1:B:1025:G:OP2	1:B:2470:G:N7	2.51	0.44
1:B:1046:A:C5'	1:B:1050:A:OP2	2.65	0.44
1:B:1087:G:N2	1:B:1090:A:C8	2.86	0.44
1:B:1130:U:C2	1:B:2754:U:C2'	2.96	0.44
1:B:1281:G:C5	1:B:1282:U:C6	3.06	0.44
1:B:1416:G:N2	1:B:1465:G:C1'	2.81	0.44
1:B:1424:G:C8	1:B:1567:G:OP2	2.71	0.44
1:B:1425:G:H5'	1:B:1566:A:C5'	2.36	0.44
1:B:1558:C:H4'	1:B:1559:U:OP2	2.17	0.44
1:B:1579:A:N3	1:B:1580:A:O5'	2.51	0.44
1:B:1615:C:C2'	1:B:1616:A:O5'	2.66	0.44
1:B:1668:A:O5'	1:B:1669:A:O4'	2.36	0.44
1:B:1809:A:H3'	1:B:1810:A:H8	1.82	0.44
1:B:1849:G:OP1	1:B:1889:A:N3	2.50	0.44
1:B:1853:A:C5'	1:B:1855:U:O4	2.66	0.44
1:B:1963:U:C3'	1:B:1964:G:C5'	2.96	0.44
1:B:2059:A:N9	1:B:2059:A:C2'	2.70	0.44
1:B:2059:A:N7	1:B:2555:U:C1'	2.81	0.44
1:B:2115:G:N2	1:B:2117:A:C5	2.86	0.44
1:B:2211:A:C2'	1:B:2212:A:OP2	2.65	0.44
1:B:2450:A:O2'	1:B:2566:A:C8	2.68	0.44
1:B:2454:G:H4'	1:B:2454:G:H5'	1.89	0.44
1:B:2718:G:H3'	1:B:2720:U:N3	2.31	0.44
1:B:2805:C:C3'	1:B:2806:C:O4'	2.65	0.44
1:B:2825:G:C1'	1:B:2825:G:C8	2.81	0.44
1:B:51:G:O2'	1:B:176:A:N3	2.51	0.44
1:B:67:U:C5	1:B:69:C:P	2.99	0.44
1:B:70:G:H3'	1:B:71:A:OP1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:C:OP2	1:B:100:U:O4'	2.36	0.44
1:B:255:A:C2	1:B:276:U:C5	3.06	0.44
1:B:270:A:H4'	1:B:426:C:O2'	2.18	0.44
1:B:446:G:H1	1:B:480:A:C5'	2.31	0.44
1:B:511:U:C2'	1:B:511:U:O2	2.65	0.44
1:B:645:C:C2	1:B:647:G:H1'	2.53	0.44
1:B:802:A:O3'	1:B:1253:A:C3'	2.65	0.44
1:B:981:A:C2'	1:B:982:C:C5'	2.84	0.44
1:B:1005:C:H2'	1:B:1006:C:H6	1.83	0.44
1:B:1022:G:C1'	1:B:1022:G:C8	2.83	0.44
1:B:1353:A:C2'	1:B:1373:A:OP1	2.66	0.44
1:B:1426:G:P	1:B:1566:A:C1'	2.97	0.44
1:B:1451:C:O2'	1:B:1457:U:O4	2.36	0.44
1:B:1569:A:P	1:B:1570:A:C6	3.11	0.44
1:B:1571:A:H2'	1:B:1571:A:N3	2.33	0.44
1:B:1678:A:O2'	1:B:1684:G:C6	2.68	0.44
1:B:1848:A:O2'	1:B:1848:A:C4	2.58	0.44
1:B:1930:G:O3'	1:B:1935:G:OP1	2.36	0.44
1:B:1952:A:C3'	1:B:1956:U:C4	3.00	0.44
1:B:2103:C:O5'	1:B:2104:C:O5'	2.36	0.44
1:B:2124:G:H4'	1:B:2125:G:O5'	2.18	0.44
1:B:2203:U:OP1	1:B:2204:G:H5"	2.18	0.44
1:B:2305:U:O5'	1:B:2306:C:OP2	2.35	0.44
1:B:2393:U:O3'	1:B:2395:C:O3'	2.36	0.44
1:B:2429:G:C1'	1:B:2429:G:C8	2.81	0.44
1:B:2442:C:HO3'	1:B:2443:C:P	2.40	0.44
1:B:2451:A:C3'	1:B:2452:C:P	3.05	0.44
1:B:2471:A:H5"	1:B:2472:G:OP2	2.17	0.44
1:B:2498:5MC:H6	1:B:2657:A:O2'	2.01	0.44
1:B:2644:G:C1'	1:B:2644:G:C8	2.82	0.44
1:B:2655:G:N2	1:B:2656:U:C5	2.86	0.44
1:B:2684:U:P	1:B:2722:G:OP2	2.76	0.44
1:B:2733:A:H8	1:B:2778:A:N9	2.13	0.44
1:B:2754:U:C4'	1:B:2755:C:C5'	2.94	0.44
1:B:34:U:C3'	1:B:34:U:O2	2.65	0.43
1:B:66:C:P	1:B:68:G:O4'	2.76	0.43
1:B:98:G:H5"	1:B:103:A:OP1	2.18	0.43
1:B:214:G:H4'	1:B:219:A:OP1	2.17	0.43
1:B:432:A:H2'	1:B:433:C:H5"	1.98	0.43
1:B:445:C:O3'	1:B:470:A:N3	2.50	0.43
1:B:452:G:C1'	1:B:452:G:C4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:462:C:N4	1:B:464:U:H4'	2.33	0.43
1:B:498:G:HO3'	1:B:499:U:P	2.34	0.43
1:B:696:G:OP1	1:B:1963:U:OP2	2.36	0.43
1:B:744:U:C2'	1:B:748:G:H4'	2.35	0.43
1:B:918:A:H3'	1:B:919:U:H5'	2.00	0.43
1:B:1017:G:OP1	1:B:2753:A:P	2.76	0.43
1:B:1031:G:H3'	1:B:1032:A:C5'	2.44	0.43
1:B:1110:G:C3'	1:B:1111:A:C5'	2.95	0.43
1:B:1115:G:H2'	1:B:2749:A:C4'	2.41	0.43
1:B:1123:C:H41	1:B:1126:A:H62	1.66	0.43
1:B:1130:U:H5'	1:B:2749:A:C8	2.35	0.43
1:B:1133:A:C2'	1:B:1142:A:C2	3.01	0.43
1:B:1139:G:H5'	1:B:1140:C:OP2	2.18	0.43
1:B:1285:A:C8	1:B:1285:A:OP2	2.71	0.43
1:B:1351:C:C4'	1:B:1352:U:OP2	2.66	0.43
1:B:1393:A:C5'	1:B:1394:U:H1'	2.48	0.43
1:B:1425:G:O3'	1:B:1567:G:C3'	2.66	0.43
1:B:1569:A:O2'	1:B:1570:A:OP1	2.36	0.43
1:B:1577:C:OP2	1:B:1580:A:N7	2.51	0.43
1:B:1598:A:C3'	1:B:1599:U:P	3.06	0.43
1:B:1696:G:H2'	1:B:1696:G:N3	2.33	0.43
1:B:1754:A:OP2	1:B:1988:G:C2'	2.66	0.43
1:B:1847:A:C5'	1:B:1848:A:P	3.05	0.43
1:B:1926:U:OP2	1:B:1927:A:N6	2.45	0.43
1:B:1931:U:HO3'	1:B:1935:G:H4'	1.69	0.43
1:B:1932:A:OP1	1:B:1936:A:OP2	2.35	0.43
1:B:1963:U:H3'	1:B:1964:G:C5'	2.47	0.43
1:B:2106:U:OP2	1:B:2112:G:C6	2.71	0.43
1:B:2497:A:H2'	1:B:2665:A:O4'	2.16	0.43
1:B:2597:G:C1'	1:B:2597:G:C8	2.82	0.43
1:B:2850:A:H5"	1:B:2871:U:C6	2.53	0.43
1:B:12:U:H5	1:B:14:A:O5'	1.99	0.43
1:B:28:A:N3	1:B:674:G:C4'	2.81	0.43
1:B:62:U:C2	1:B:62:U:C2'	3.01	0.43
1:B:64:A:N3	1:B:64:A:O5'	2.51	0.43
1:B:73:A:P	1:B:113:U:C6	3.11	0.43
1:B:294:A:N6	1:B:337:C:O2'	2.51	0.43
1:B:403:U:C2	1:B:403:U:C2'	3.01	0.43
1:B:405:U:C2	1:B:405:U:C2'	3.01	0.43
1:B:450:G:OP1	1:B:452:G:C2'	2.66	0.43
1:B:459:U:O2	1:B:478:A:C2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:500:G:C5’	1:B:503:A:P	3.06	0.43
1:B:530:G:O5’	1:B:948:C:O3’	2.36	0.43
1:B:844:A:OP2	1:B:845:A:C5’	2.65	0.43
1:B:916:G:O3’	1:B:918:A:H5’	2.18	0.43
1:B:1282:U:O2’	1:B:1285:A:N6	2.50	0.43
1:B:1419:A:O3’	1:B:1419:A:O2’	2.36	0.43
1:B:1497:U:C4’	1:B:1498:C:OP2	2.66	0.43
1:B:1581:G:C4’	1:B:1628:G:OP2	2.66	0.43
1:B:1610:A:C5’	1:B:1611:C:C5	3.02	0.43
1:B:1668:A:O5’	1:B:1669:A:C5’	2.66	0.43
1:B:1670:C:H2’	1:B:1753:G:C1’	2.48	0.43
1:B:1675:C:C5’	1:B:1679:A:C8	3.01	0.43
1:B:1720:U:C2’	1:B:1721:G:H5”	2.48	0.43
1:B:1797:G:OP2	1:B:1815:A:C1’	2.44	0.43
1:B:1857:G:O5’	1:B:1886:U:O2	2.25	0.43
1:B:1884:G:O5’	1:B:1885:A:P	2.77	0.43
1:B:1933:G:C5’	1:B:1941:C:OP1	2.67	0.43
1:B:1937:A:P	1:B:1938:A:C4’	3.07	0.43
1:B:1992:G:O2’	1:B:1993:U:C6	2.56	0.43
1:B:2110:G:C1’	1:B:2110:G:C8	2.84	0.43
1:B:2133:G:OP1	1:B:2137:U:H4’	2.18	0.43
1:B:2167:U:OP1	1:B:2169:A:C8	2.71	0.43
1:B:2258:C:O3’	1:B:2259:U:C5’	2.66	0.43
1:B:2376:A:N3	1:B:2396:G:OP1	2.51	0.43
1:B:2504:U:H5	1:B:2579:C:OP2	1.98	0.43
1:B:2688:G:H2’	1:B:2689:U:H5”	1.99	0.43
1:B:2689:U:O2	1:B:2718:G:O6	2.36	0.43
1:B:2735:G:O6	1:B:2773:C:OP1	2.36	0.43
1:B:2809:A:C8	1:B:2884:U:C1’	2.92	0.43
1:B:10:A:C2’	1:B:11:C:O5’	2.64	0.43
1:B:11:C:O2’	1:B:1196:C:P	2.76	0.43
1:B:29:U:H4’	1:B:1253:A:OP2	2.18	0.43
1:B:50:U:O3’	1:B:151:C:O3’	2.36	0.43
1:B:75:G:C2’	1:B:119:A:P	3.06	0.43
1:B:89:A:C5’	1:B:94:A:N6	2.79	0.43
1:B:93:G:C8	1:B:498:G:C3’	3.02	0.43
1:B:190:A:C3’	1:B:191:A:P	3.05	0.43
1:B:212:G:C5’	1:B:213:A:O5’	2.65	0.43
1:B:220:G:C2’	1:B:277:G:C5’	2.80	0.43
1:B:223:A:C2	1:B:261:G:OP2	2.72	0.43
1:B:299:A:OP2	1:B:334:C:C5’	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:G:N1	1:B:480:A:H5'	2.32	0.43
1:B:487:C:H4'	1:B:505:A:H3'	1.98	0.43
1:B:538:A:C2	1:B:555:G:C6	3.06	0.43
1:B:612:G:H2'	1:B:613:A:N7	2.33	0.43
1:B:726:G:H2'	1:B:726:G:N3	2.33	0.43
1:B:746:PSU:O5'	1:B:747:5MU:OP2	2.36	0.43
1:B:747:5MU:OP2	1:B:748:G:O3'	2.37	0.43
1:B:862:G:H3'	1:B:864:G:P	2.58	0.43
1:B:963:U:H2'	1:B:964:C:H6	1.80	0.43
1:B:1159:U:C3'	1:B:1160:G:P	3.02	0.43
1:B:1265:A:H2	1:B:1616:A:O4'	2.00	0.43
1:B:1347:A:H5"	1:B:1348:C:H5'	1.73	0.43
1:B:1357:C:HO2'	1:B:1358:G:P	2.41	0.43
1:B:1446:C:C5	1:B:1543:G:N1	2.86	0.43
1:B:1459:G:N2	1:B:1462:C:OP2	2.51	0.43
1:B:1545:A:C2'	1:B:1546:G:O5'	2.66	0.43
1:B:1576:U:OP2	1:B:1580:A:C6	2.71	0.43
1:B:1696:G:C1'	1:B:1697:G:H3'	2.46	0.43
1:B:1727:C:H5"	1:B:1728:C:OP2	2.18	0.43
1:B:1791:A:C2'	1:B:1942:C:H3'	2.47	0.43
1:B:1815:A:H3'	1:B:1815:A:N3	2.33	0.43
1:B:2143:C:C5'	1:B:2144:G:OP2	2.65	0.43
1:B:2351:G:C1'	1:B:2351:G:C8	2.83	0.43
1:B:2448:A:C2	1:B:2449:5MU:N1	2.85	0.43
1:B:2629:U:H4'	1:B:2630:G:H4'	1.99	0.43
1:B:2685:G:C1'	1:B:2685:G:C8	2.83	0.43
1:B:27:G:N3	1:B:1248:G:H4'	2.33	0.43
1:B:60:G:C1'	1:B:60:G:C8	2.81	0.43
1:B:101:A:H3'	1:B:101:A:N3	2.32	0.43
1:B:219:A:H5'	1:B:257:C:O5'	2.19	0.43
1:B:221:A:N3	1:B:278:A:H2'	2.32	0.43
1:B:329:G:H21	1:B:336:C:N4	2.10	0.43
1:B:400:G:H5"	1:B:401:A:OP1	2.18	0.43
1:B:411:G:H3'	1:B:2406:A:N9	2.33	0.43
1:B:490:C:C5	1:B:511:U:OP1	2.72	0.43
1:B:576:U:C2	1:B:576:U:C2'	3.01	0.43
1:B:577:G:N2	1:B:2018:G:C4	2.73	0.43
1:B:619:G:C1'	1:B:621:A:N9	2.78	0.43
1:B:914:G:H2'	1:B:914:G:N3	2.33	0.43
1:B:1026:G:O4'	1:B:2477:U:C5'	2.66	0.43
1:B:1134:A:H5"	1:B:1141:U:H4'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1267:U:H4'	1:B:1268:A:OP2	2.19	0.43
1:B:1451:C:C6	1:B:1455:G:C5	3.05	0.43
1:B:1467:U:C6	1:B:1468:U:OP2	2.72	0.43
1:B:1553:A:H4'	1:B:1553:A:OP1	2.18	0.43
1:B:1779:U:H5"	1:B:1780:A:OP2	2.19	0.43
1:B:1854:A:N7	1:B:1858:A:C3'	2.80	0.43
1:B:1885:A:H4'	1:B:1886:U:O4	2.18	0.43
1:B:1990:C:C5'	1:B:1991:U:O4'	2.65	0.43
1:B:2061:G:OP1	1:B:2061:G:C8	2.71	0.43
1:B:2166:U:H4'	1:B:2168:G:H4'	2.00	0.43
1:B:2237:G:C1'	1:B:2237:G:C8	2.80	0.43
1:B:2489:U:H5"	1:B:2502:G:P	2.58	0.43
1:B:2505:G:HO3'	1:B:2506:U:P	2.33	0.43
1:B:2531:A:H2'	1:B:2532:G:H5'	2.00	0.43
1:B:2643:G:C3'	1:B:2644:G:H5"	2.46	0.43
1:B:2645:G:C5'	1:B:2646:C:C4	2.91	0.43
1:B:2879:A:HO2'	1:B:2880:C:P	2.41	0.43
1:B:223:A:N7	1:B:279:A:OP2	2.51	0.43
1:B:230:G:N3	1:B:432:A:H5'	2.33	0.43
1:B:457:A:N3	1:B:459:U:OP2	2.51	0.43
1:B:598:U:O4'	1:B:937:C:H5"	2.18	0.43
1:B:625:G:C1'	1:B:625:G:C8	2.82	0.43
1:B:739:A:N6	1:B:762:U:H5	2.12	0.43
1:B:788:A:N6	1:B:790:U:H5	2.14	0.43
1:B:802:A:C3'	1:B:1254:A:O4'	2.67	0.43
1:B:837:C:O3'	1:B:975:A:H3'	2.18	0.43
1:B:918:A:C3'	1:B:919:U:H5'	2.49	0.43
1:B:982:C:C4	1:B:983:A:C5	3.06	0.43
1:B:1110:G:H3'	1:B:1111:A:H5'	1.98	0.43
1:B:1352:U:O2	1:B:1378:A:N6	2.52	0.43
1:B:1429:G:C3'	1:B:1430:C:P	3.01	0.43
1:B:1437:C:OP2	1:B:1438:U:N1	2.51	0.43
1:B:1586:A:C2'	1:B:1587:G:O5'	2.66	0.43
1:B:1653:G:H4'	1:B:1654:A:H5'	2.01	0.43
1:B:1654:A:H2'	1:B:1655:A:C4	2.51	0.43
1:B:1787:A:C2	1:B:2555:U:O3'	2.72	0.43
1:B:1833:C:H4'	1:B:1834:U:OP2	2.17	0.43
1:B:1853:A:H4'	1:B:1858:A:P	2.58	0.43
1:B:1917:PSU:C4	1:B:1918:A:N7	2.87	0.43
1:B:1932:A:P	1:B:1935:G:C4'	3.04	0.43
1:B:1953:A:C5'	1:B:1956:U:N1	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1992:G:H4'	1:B:1993:U:O5'	2.16	0.43
1:B:2287:A:H5'	1:B:2288:A:O4'	2.17	0.43
1:B:2361:G:C8	1:B:2363:G:OP1	2.71	0.43
1:B:2638:G:OP2	1:B:2639:A:H5'	2.18	0.43
1:B:2806:C:O2'	1:B:2807:U:H4'	2.18	0.43
1:B:2851:A:C8	1:B:2871:U:C6	3.04	0.43
1:B:2869:G:H2'	1:B:2870:C:C4'	2.48	0.43
1:B:15:G:OP2	1:B:1256:G:OP2	2.37	0.43
1:B:15:G:OP2	1:B:1256:G:C8	2.66	0.43
1:B:28:A:H4'	1:B:1251:C:H4'	1.99	0.43
1:B:120:U:C4'	1:B:120:U:H5'	2.24	0.43
1:B:201:C:C2'	1:B:203:A:P	3.02	0.43
1:B:365:U:O5'	1:B:368:A:H2'	2.19	0.43
1:B:504:A:N9	1:B:504:A:C2'	2.70	0.43
1:B:588:U:C3'	1:B:589:U:C6	3.01	0.43
1:B:684:G:O2'	1:B:788:A:C2	2.68	0.43
1:B:787:C:O2	1:B:788:A:H5"	2.19	0.43
1:B:828:U:H5	1:B:830:G:O6	1.99	0.43
1:B:837:C:C5'	1:B:975:A:C4'	2.80	0.43
1:B:1020:A:H2'	1:B:1021:A:OP1	2.18	0.43
1:B:1045:C:H41	1:B:1051:G:C4'	2.28	0.43
1:B:1213:A:H61	1:B:1234:U:C2'	2.29	0.43
1:B:1311:G:H4'	1:B:1642:G:P	2.59	0.43
1:B:1605:C:H1'	1:B:1663:G:O2'	2.18	0.43
1:B:1663:G:C4'	1:B:1664:A:P	3.06	0.43
1:B:1828:G:H21	1:B:1954:G:H22	1.67	0.43
1:B:1829:A:N6	1:B:1970:A:C1'	2.20	0.43
1:B:1971:U:O3'	1:B:2443:C:O5'	2.36	0.43
1:B:2068:U:O3'	1:B:2068:U:C2'	2.60	0.43
1:B:2112:G:H2'	1:B:2112:G:N3	2.34	0.43
1:B:2325:G:H22	1:B:2326:C:N4	2.15	0.43
1:B:2350:C:O3'	1:B:2352:A:OP1	2.37	0.43
1:B:2488:G:O2'	1:B:2505:G:C1'	2.60	0.43
1:B:2556:C:O2	1:B:2556:C:O4'	2.37	0.43
1:B:2644:G:H3'	1:B:2644:G:P	2.58	0.43
1:B:2656:U:C5	1:B:2664:G:N1	2.86	0.43
1:B:2733:A:H8	1:B:2778:A:C1'	2.32	0.43
1:B:2750:A:C4	1:B:2751:G:H8	2.37	0.43
1:B:2884:U:C5'	1:B:2890:G:N3	2.82	0.43
1:B:52:A:O5'	1:B:176:A:C4	2.64	0.43
1:B:87:U:HO3'	1:B:496:G:H5"	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:G:N7	1:B:198:C:O5'	2.52	0.43
1:B:221:A:N9	1:B:222:A:C2'	2.49	0.43
1:B:403:U:O2	1:B:403:U:H2'	2.19	0.43
1:B:435:C:C2'	1:B:437:U:C5	2.99	0.43
1:B:451:U:N1	1:B:460:A:H5'	2.12	0.43
1:B:453:A:H2'	1:B:454:A:OP2	2.19	0.43
1:B:501:A:OP1	1:B:502:A:O5'	2.37	0.43
1:B:748:G:O2'	1:B:749:A:P	2.76	0.43
1:B:781:A:H2'	1:B:781:A:N3	2.33	0.43
1:B:790:U:C2	1:B:790:U:C2'	3.02	0.43
1:B:833:A:HO2'	1:B:978:G:P	2.38	0.43
1:B:865:C:OP2	1:B:906:U:O2	2.37	0.43
1:B:1050:A:C5'	1:B:1051:G:O5'	2.67	0.43
1:B:1050:A:H5"	1:B:1052:C:OP2	2.16	0.43
1:B:1294:U:C4	1:B:1295:C:C2	3.06	0.43
1:B:1411:U:C5	1:B:1585:C:H1'	2.52	0.43
1:B:1515:A:C2'	1:B:1516:G:OP2	2.47	0.43
1:B:1626:A:C4'	1:B:1627:G:C5'	2.50	0.43
1:B:1714:U:O3'	1:B:1738:G:C8	2.72	0.43
1:B:1714:U:C2'	1:B:1737:G:N2	2.80	0.43
1:B:1882:U:C5	1:B:1884:G:P	3.12	0.43
1:B:1912:A:H5"	1:B:1913:A:OP2	2.19	0.43
1:B:1932:A:H5"	1:B:1934:C:H5"	2.01	0.43
1:B:2103:C:H3'	1:B:2104:C:H5"	0.58	0.43
1:B:2214:C:C2'	1:B:2215:C:C5'	2.93	0.43
1:B:2275:C:C5'	1:B:2427:C:O4'	2.56	0.43
1:B:2286:G:C1'	1:B:2286:G:C8	2.81	0.43
1:B:2310:C:N4	1:B:2311:A:N6	2.66	0.43
1:B:2319:G:C6	1:B:2326:C:N4	2.86	0.43
1:B:2391:G:C8	1:B:2397:G:C4'	2.94	0.43
1:B:2440:C:OP2	1:B:2440:C:O4'	2.37	0.43
1:B:2504:U:C4	1:B:2580:U:H5	2.35	0.43
1:B:2682:A:H2'	1:B:2720:U:H1'	1.99	0.43
1:B:2884:U:C3'	1:B:2887:A:C8	2.93	0.43
1:B:27:G:O3'	1:B:1249:U:H1'	2.19	0.43
1:B:71:A:C4'	1:B:114:U:OP1	2.48	0.43
1:B:99:U:O3'	1:B:101:A:H8	1.99	0.43
1:B:110:G:OP1	1:B:171:U:C5'	2.60	0.43
1:B:215:G:C3'	1:B:219:A:O5'	2.65	0.43
1:B:270:A:H3'	1:B:271:G:H8	1.83	0.43
1:B:429:A:C4'	1:B:429:A:H5'	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:A:O5'	1:B:478:A:C2'	2.66	0.43
1:B:490:C:C6	1:B:511:U:OP1	2.72	0.43
1:B:612:G:C2'	1:B:613:A:C8	3.01	0.43
1:B:675:A:C5	1:B:676:A:H1'	2.54	0.43
1:B:833:A:O2'	1:B:978:G:P	2.76	0.43
1:B:900:A:H5'	1:B:901:C:OP1	2.18	0.43
1:B:1006:C:C5'	1:B:1007:C:H5'	2.39	0.43
1:B:1018:U:C5'	1:B:1129:A:P	2.97	0.43
1:B:1030:C:N4	1:B:1126:A:H8	2.16	0.43
1:B:1129:A:H4'	1:B:2751:G:H5"	2.01	0.43
1:B:1251:C:H6	1:B:1252:G:OP2	2.01	0.43
1:B:1272:A:O4'	1:B:1649:G:C4'	2.67	0.43
1:B:1281:G:C5	1:B:1282:U:H6	2.37	0.43
1:B:1282:U:OP2	1:B:1283:G:OP1	2.36	0.43
1:B:1451:C:H4'	1:B:1526:C:H1'	1.87	0.43
1:B:1679:A:O3'	1:B:1700:A:C8	2.72	0.43
1:B:1790:C:H41	1:B:1829:A:H3'	1.81	0.43
1:B:1803:A:C3'	1:B:1804:C:P	3.06	0.43
1:B:1828:G:N2	1:B:1954:G:N2	2.67	0.43
1:B:1847:A:O2'	1:B:1848:A:H2	2.02	0.43
1:B:1912:A:H2'	1:B:1914:C:OP2	2.19	0.43
1:B:1928:A:C2'	1:B:1936:A:H5'	2.49	0.43
1:B:1937:A:N9	1:B:1937:A:C2'	2.69	0.43
1:B:1971:U:O4	1:B:2554:U:C2	2.72	0.43
1:B:2016:U:C2	1:B:2016:U:C2'	3.01	0.43
1:B:2117:A:C2	1:B:2171:A:O3'	2.72	0.43
1:B:2128:G:H4'	1:B:2169:A:P	2.59	0.43
1:B:2161:C:O2'	1:B:2162:G:H5'	2.18	0.43
1:B:2468:A:H8	1:B:2469:A:N7	2.17	0.43
1:B:2661:G:H2'	1:B:2662:A:C8	2.54	0.43
1:B:2719:G:HO2'	1:B:2720:U:P	2.41	0.43
1:B:2756:U:C2'	1:B:2757:A:O4'	2.53	0.43
1:B:2798:U:C6	1:B:2800:A:C1'	3.00	0.43
1:B:2824:C:O2	1:B:2824:C:C2'	2.63	0.43
1:B:2845:U:H5'	1:B:2868:A:C2'	2.49	0.43
1:B:2849:U:C4'	1:B:2872:A:C2'	2.67	0.43
1:B:13:A:C2	1:B:583:G:O6	2.72	0.43
1:B:28:A:N7	1:B:1252:G:H8	2.14	0.43
1:B:71:A:H5"	1:B:105:C:H5"	1.94	0.43
1:B:71:A:H2	1:B:112:U:C2	2.37	0.43
1:B:270:A:C5'	1:B:426:C:H1'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:G:O2'	1:B:372:G:H1'	2.18	0.43
1:B:320:A:C2'	1:B:325:G:P	3.07	0.43
1:B:324:A:C1'	1:B:324:A:C4	2.89	0.43
1:B:375:G:N2	1:B:401:A:H1'	2.29	0.43
1:B:457:A:C1'	1:B:657:U:OP1	2.67	0.43
1:B:510:C:H5"	1:B:511:U:H1'	2.01	0.43
1:B:612:G:O6	1:B:616:A:C2	2.71	0.43
1:B:686:U:O2	1:B:686:U:H2'	2.19	0.43
1:B:790:U:O2	1:B:790:U:H2'	2.18	0.43
1:B:811:U:H3'	1:B:812:C:O5'	2.18	0.43
1:B:1049:C:N4	1:B:1050:A:C5	2.79	0.43
1:B:1203:U:H4'	1:B:1206:G:C6	2.54	0.43
1:B:1211:C:C4'	1:B:1212:G:O5'	2.58	0.43
1:B:1213:A:C3'	1:B:1235:G:O6	2.64	0.43
1:B:1285:A:O2'	1:B:2011:U:C4'	2.66	0.43
1:B:1346:G:O3'	1:B:1348:C:H5'	2.19	0.43
1:B:1417:C:H1'	1:B:1466:U:C5'	2.49	0.43
1:B:1425:G:H5'	1:B:1566:A:C3'	2.30	0.43
1:B:1427:A:OP2	1:B:1572:A:C3'	2.67	0.43
1:B:1719:G:O2'	1:B:1722:A:H4'	2.19	0.43
1:B:1751:U:C4'	1:B:1752:C:O5'	2.66	0.43
1:B:1926:U:H5"	1:B:1927:A:C5	2.54	0.43
1:B:1938:A:C3'	1:B:1941:C:N4	2.82	0.43
1:B:1939:5MU:C5M	1:B:1940:U:OP1	2.66	0.43
1:B:2009:A:H2'	1:B:2010:G:C8	2.52	0.43
1:B:2214:C:H2'	1:B:2215:C:O4'	2.18	0.43
1:B:2450:A:C4'	1:B:2561:U:OP1	2.67	0.43
1:B:2629:U:C5'	1:B:2631:G:OP1	2.67	0.43
1:B:2682:A:C6	1:B:2688:G:N3	2.87	0.43
1:B:2732:G:H3'	1:B:2771:C:C5	2.54	0.43
1:B:93:G:O2'	1:B:498:G:C5'	2.64	0.43
1:B:97:C:H5"	1:B:98:G:P	2.59	0.43
1:B:101:A:HO2'	1:B:102:U:C5'	2.28	0.43
1:B:207:A:H3'	1:B:208:C:P	2.55	0.43
1:B:228:C:O5'	1:B:229:C:H5	2.01	0.43
1:B:501:A:O5'	1:B:503:A:N9	2.52	0.43
1:B:530:G:O4'	1:B:564:C:N4	2.47	0.43
1:B:685:A:C4'	1:B:685:A:H5'	2.18	0.43
1:B:757:G:O2'	1:B:758:C:C4'	2.67	0.43
1:B:810:U:C2'	1:B:1196:C:H41	2.32	0.43
1:B:1059:G:H2'	1:B:1060:U:C5	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1130:U:H4'	1:B:2752:C:C3'	2.41	0.43
1:B:1252:G:N3	1:B:1252:G:C2'	2.82	0.43
1:B:1272:A:O4'	1:B:1649:G:O3'	2.37	0.43
1:B:1286:A:H2	1:B:2010:G:N2	2.13	0.43
1:B:1328:A:C1'	1:B:1328:A:C8	2.84	0.43
1:B:1340:U:O4	1:B:1389:G:H1'	2.19	0.43
1:B:1544:A:OP2	1:B:1545:A:H3'	2.19	0.43
1:B:1558:C:O2	1:B:1558:C:H2'	2.19	0.43
1:B:1585:C:C2	1:B:1585:C:C2'	3.01	0.43
1:B:1605:C:C2	1:B:1605:C:O2'	2.72	0.43
1:B:1653:G:H2'	1:B:1654:A:N3	2.34	0.43
1:B:1674:G:N9	1:B:1679:A:O3'	2.52	0.43
1:B:1815:A:C1'	1:B:1817:G:H21	2.32	0.43
1:B:1829:A:C8	1:B:1970:A:P	3.12	0.43
1:B:1891:G:C1'	1:B:1891:G:C8	2.85	0.43
1:B:1905:C:P	1:B:1928:A:OP2	2.77	0.43
1:B:1942:C:OP1	1:B:2441:U:C5'	2.67	0.43
1:B:2131:U:N3	1:B:2157:G:P	2.87	0.43
1:B:2172:U:H2'	1:B:2173:A:H5'	1.87	0.43
1:B:2243:U:HO2'	1:B:2244:U:H4'	1.84	0.43
1:B:2265:U:H2'	1:B:2267:A:H5"	2.01	0.43
1:B:2685:G:N3	1:B:2723:C:P	2.92	0.43
1:B:2701:U:C3'	1:B:2702:G:H4'	2.48	0.43
1:B:2796:U:O2'	1:B:2797:U:P	2.77	0.43
1:B:2798:U:OP1	1:B:2800:A:C2	2.72	0.43
1:B:90:U:O2	1:B:90:U:H2'	2.19	0.42
1:B:124:G:O6	1:B:126:A:C5'	2.66	0.42
1:B:337:C:H3'	1:B:338:G:C5'	2.49	0.42
1:B:374:A:OP2	1:B:376:G:OP1	2.37	0.42
1:B:382:A:H2'	1:B:383:C:O5'	2.18	0.42
1:B:574:A:H3'	1:B:2041:U:O2'	2.19	0.42
1:B:633:A:O2'	1:B:634:C:OP2	2.24	0.42
1:B:860:U:C4'	1:B:861:A:P	3.07	0.42
1:B:905:A:H3'	1:B:906:U:C5'	2.49	0.42
1:B:920:A:N3	1:B:2597:G:N7	2.67	0.42
1:B:1021:A:HO2'	1:B:1133:A:H62	1.65	0.42
1:B:1025:G:P	1:B:1025:G:O4'	2.77	0.42
1:B:1415:U:C5	1:B:1583:A:C2	3.06	0.42
1:B:1425:G:C5'	1:B:1567:G:OP1	2.67	0.42
1:B:1432:G:H3'	1:B:1433:A:H8	1.83	0.42
1:B:1523:U:O5'	1:B:1528:A:C3'	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1566:A:O3'	1:B:1566:A:O2'	2.37	0.42
1:B:1626:A:O2'	1:B:1627:G:H8	2.02	0.42
1:B:1640:A:O2'	1:B:1641:A:OP1	2.35	0.42
1:B:1676:A:C3'	1:B:1677:A:H5'	2.38	0.42
1:B:1694:C:C2	1:B:1694:C:C2'	3.02	0.42
1:B:1721:G:OP1	1:B:1739:A:C6	2.72	0.42
1:B:1754:A:P	1:B:1988:G:H2'	2.58	0.42
1:B:1833:C:O2'	1:B:1931:U:O2'	2.34	0.42
1:B:1847:A:O3'	1:B:1847:A:H4'	2.14	0.42
1:B:1852:U:H3'	1:B:1886:U:O4	2.19	0.42
1:B:1871:A:N6	1:B:1872:A:N3	2.67	0.42
1:B:1905:C:C2'	1:B:1928:A:C5'	2.95	0.42
1:B:1934:C:C4'	1:B:1935:G:OP2	2.67	0.42
1:B:2161:C:O2	1:B:2168:G:N1	2.52	0.42
1:B:2401:U:OP1	1:B:2407:A:O5'	2.36	0.42
1:B:2654:A:C2	1:B:2655:G:N2	2.87	0.42
1:B:2660:A:C6	1:B:2661:G:C2	3.07	0.42
1:B:10:A:H8	1:B:812:C:O2	2.02	0.42
1:B:10:A:N1	1:B:525:U:O5'	2.52	0.42
1:B:25:U:C2'	1:B:26:G:O5'	2.66	0.42
1:B:87:U:C6	1:B:88:G:H5'	2.55	0.42
1:B:94:A:N1	1:B:498:G:H1'	2.34	0.42
1:B:187:G:C1'	1:B:218:A:H5"	2.42	0.42
1:B:216:A:OP2	1:B:256:A:C6	2.72	0.42
1:B:228:C:C6	1:B:229:C:C6	3.06	0.42
1:B:264:C:H3'	1:B:265:A:H5'	2.01	0.42
1:B:330:A:N3	1:B:334:C:O2'	2.51	0.42
1:B:383:C:C2'	1:B:391:A:N6	2.72	0.42
1:B:446:G:C5'	1:B:470:A:H2'	2.50	0.42
1:B:537:G:OP1	1:B:537:G:H4'	2.20	0.42
1:B:645:C:C2'	1:B:646:U:OP1	2.67	0.42
1:B:646:U:H5'	1:B:654:A:P	2.59	0.42
1:B:837:C:H5"	1:B:975:A:H5'	1.96	0.42
1:B:845:A:OP2	1:B:846:U:C1'	2.55	0.42
1:B:926:G:HO3'	1:B:927:A:H4'	1.64	0.42
1:B:1117:C:H5"	1:B:1129:A:H3'	2.01	0.42
1:B:1130:U:C4'	1:B:2752:C:O2'	2.67	0.42
1:B:1142:A:O5'	1:B:1142:A:O3'	2.37	0.42
1:B:1274:A:H2'	1:B:1288:G:H5'	2.00	0.42
1:B:1284:A:OP1	1:B:2013:A:H8	2.01	0.42
1:B:1289:C:H5'	1:B:1649:G:C5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1354:A:N6	1:B:1377:G:C2	2.85	0.42
1:B:1365:A:C5'	1:B:1368:G:O6	2.60	0.42
1:B:1378:A:N9	1:B:1378:A:C2'	2.70	0.42
1:B:1379:U:C2	1:B:1379:U:C2'	3.01	0.42
1:B:1417:C:C4'	1:B:1636:U:O2'	2.67	0.42
1:B:1451:C:O5'	1:B:1526:C:N1	2.52	0.42
1:B:1521:G:O3'	1:B:1530:G:OP1	2.38	0.42
1:B:1552:A:C2'	1:B:1553:A:OP2	2.67	0.42
1:B:1565:C:O2'	1:B:1566:A:C4'	2.67	0.42
1:B:1584:U:O2	1:B:1635:A:H5'	2.19	0.42
1:B:1840:G:O6	1:B:1900:A:N7	2.52	0.42
1:B:1857:G:H2'	1:B:1857:G:N3	2.34	0.42
1:B:1858:A:N3	1:B:1858:A:H2'	2.35	0.42
1:B:1934:C:P	1:B:1941:C:C2	3.12	0.42
1:B:1944:U:O2'	1:B:1945:G:C4'	2.58	0.42
1:B:1968:G:C1'	1:B:1968:G:C8	2.82	0.42
1:B:2060:A:C2'	1:B:2557:G:H21	2.26	0.42
1:B:2455:G:C8	1:B:2500:U:O4	2.72	0.42
1:B:2849:U:OP1	1:B:2872:A:O3'	2.37	0.42
1:B:10:A:C4	1:B:525:U:H5'	2.54	0.42
1:B:72:U:OP1	1:B:72:U:H6	1.95	0.42
1:B:270:A:O2'	1:B:270:A:C4	2.60	0.42
1:B:283:G:O3'	1:B:372:G:C8	2.72	0.42
1:B:337:C:OP2	1:B:339:U:OP1	2.37	0.42
1:B:362:A:C8	1:B:427:U:O2'	2.61	0.42
1:B:390:U:C2	1:B:391:A:C5	3.07	0.42
1:B:423:A:C4	1:B:424:G:H4'	2.54	0.42
1:B:577:G:H8	1:B:579:G:H4'	1.84	0.42
1:B:602:A:C4'	1:B:602:A:H5'	2.23	0.42
1:B:619:G:O4'	1:B:621:A:H1'	2.19	0.42
1:B:759:G:H5'	1:B:1950:G:OP2	2.16	0.42
1:B:821:A:H5"	1:B:2628:C:H3'	2.00	0.42
1:B:926:G:O5'	1:B:927:A:H5"	2.15	0.42
1:B:941:A:C4'	1:B:941:A:H5'	2.20	0.42
1:B:1000:A:C8	1:B:1150:C:C6	3.07	0.42
1:B:1010:A:C5'	1:B:1011:G:C8	3.01	0.42
1:B:1242:U:C2	1:B:1242:U:C2'	3.02	0.42
1:B:1360:G:H4'	1:B:1365:A:O2'	2.19	0.42
1:B:1428:C:H1'	1:B:1630:A:C2'	2.45	0.42
1:B:1449:G:OP1	1:B:1587:G:O3'	2.37	0.42
1:B:1453:A:O2'	1:B:1524:G:H3'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1583:A:P	1:B:1584:U:C5’	3.06	0.42
1:B:1597:A:O5’	1:B:1598:A:C5’	2.67	0.42
1:B:1744:A:C5’	1:B:1745:A:OP2	2.68	0.42
1:B:1773:A:N9	1:B:1773:A:C2’	2.70	0.42
1:B:1853:A:O3’	1:B:1887:C:OP2	2.37	0.42
1:B:2849:U:P	1:B:2871:U:C1’	2.88	0.42
1:B:2:G:H2’	1:B:3:U:C6	2.55	0.42
1:B:34:U:H4’	1:B:35:G:H5’	2.01	0.42
1:B:233:A:C6	1:B:235:U:H5’	2.55	0.42
1:B:266:G:H21	1:B:269:C:N4	2.05	0.42
1:B:507:A:C1’	1:B:1246:A:OP2	2.67	0.42
1:B:585:G:C3’	1:B:1196:C:C5’	2.97	0.42
1:B:746:PSU:OP1	1:B:747:5MU:H71	2.19	0.42
1:B:792:A:C2	1:B:794:A:OP2	2.72	0.42
1:B:916:G:C5’	1:B:917:A:H5”	2.42	0.42
1:B:1023:U:O3’	1:B:2467:C:C3’	2.67	0.42
1:B:1082:U:C2’	1:B:1083:U:O5’	2.67	0.42
1:B:1117:C:OP2	1:B:2751:G:N9	2.52	0.42
1:B:1130:U:H3	1:B:2754:U:H2’	1.70	0.42
1:B:1232:G:OP1	1:B:1237:A:P	2.77	0.42
1:B:1494:A:OP2	1:B:1494:A:H8	1.98	0.42
1:B:1679:A:C5’	1:B:1679:A:C3’	2.83	0.42
1:B:1692:U:O2’	1:B:1698:A:H5”	2.18	0.42
1:B:1692:U:C4’	1:B:1698:A:C8	3.02	0.42
1:B:1719:G:HO2’	1:B:1720:U:H5”	1.80	0.42
1:B:1833:C:O2	1:B:1931:U:C5’	2.67	0.42
1:B:1856:U:C4’	1:B:1886:U:C6	3.01	0.42
1:B:1942:C:H5”	1:B:2442:C:C5’	2.25	0.42
1:B:1953:A:C3’	1:B:1955:U:O2	2.67	0.42
1:B:2058:A:C2	1:B:2068:U:O3’	2.72	0.42
1:B:2107:G:OP2	1:B:2111:U:C2	2.72	0.42
1:B:2169:A:H2’	1:B:2169:A:N3	2.33	0.42
1:B:2472:G:H8	1:B:2472:G:P	2.42	0.42
1:B:2565:A:H2’	1:B:2566:A:O4’	2.20	0.42
1:B:2850:A:O3’	1:B:2871:U:O4	2.38	0.42
1:B:1:G:O6	1:B:2904:U:H5’	2.20	0.42
1:B:23:G:P	1:B:511:U:C3’	3.08	0.42
1:B:231:A:C5’	1:B:232:G:P	3.04	0.42
1:B:233:A:C2	1:B:235:U:OP1	2.73	0.42
1:B:261:G:O2’	1:B:429:A:C5’	2.67	0.42
1:B:275:C:N1	1:B:275:C:C2’	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:G:N2	1:B:573:U:H5'	2.34	0.42
1:B:645:C:O2'	1:B:646:U:OP1	2.33	0.42
1:B:674:G:H5"	1:B:1250:G:P	2.58	0.42
1:B:675:A:H2'	1:B:676:A:O4'	2.19	0.42
1:B:867:C:O2'	1:B:915:C:O5'	2.38	0.42
1:B:900:A:C3'	1:B:901:C:H5	2.31	0.42
1:B:905:A:C3'	1:B:906:U:C5'	2.98	0.42
1:B:1024:G:C4'	1:B:2467:C:C4'	2.85	0.42
1:B:1203:U:O2	1:B:1241:A:O4'	2.35	0.42
1:B:1272:A:N9	1:B:1649:G:O3'	2.53	0.42
1:B:1282:U:H2'	1:B:2012:G:H1	1.84	0.42
1:B:1445:G:OP1	1:B:1446:C:C2	2.73	0.42
1:B:1453:A:N3	1:B:1525:A:O3'	2.53	0.42
1:B:1521:G:N7	1:B:1522:A:O4'	2.52	0.42
1:B:1655:A:C4	1:B:1656:C:O4'	2.73	0.42
1:B:1674:G:N2	1:B:1700:A:O3'	2.52	0.42
1:B:1674:G:C2	1:B:1700:A:H5"	2.55	0.42
1:B:1696:G:O4'	1:B:1697:G:C3'	2.49	0.42
1:B:1828:G:N2	1:B:1954:G:H22	2.18	0.42
1:B:1882:U:H5"	1:B:1883:U:OP2	2.20	0.42
1:B:1893:C:H2'	1:B:1894:C:C6	2.54	0.42
1:B:1928:A:C5'	1:B:1937:A:OP2	2.68	0.42
1:B:1950:G:C6	1:B:1952:A:OP2	2.73	0.42
1:B:1992:G:O2'	1:B:1993:U:H6	2.00	0.42
1:B:2058:A:C2	1:B:2068:U:O2'	2.72	0.42
1:B:2115:G:N2	1:B:2172:U:C4	2.82	0.42
1:B:2366:A:C3'	1:B:2367:G:C5'	2.96	0.42
1:B:2685:G:C8	1:B:2687:U:O5'	2.73	0.42
1:B:2849:U:O3'	1:B:2851:A:OP1	2.36	0.42
1:B:9:G:H8	1:B:9:G:OP1	2.01	0.42
1:B:78:U:P	1:B:102:U:HO2'	2.41	0.42
1:B:211:C:C1'	1:B:213:A:N3	2.76	0.42
1:B:214:G:C4'	1:B:256:A:C2	3.02	0.42
1:B:530:G:P	1:B:564:C:H42	2.35	0.42
1:B:532:A:N9	1:B:532:A:C2'	2.70	0.42
1:B:706:A:C2'	1:B:707:G:H8	2.25	0.42
1:B:735:A:O5'	1:B:736:C:O4'	2.37	0.42
1:B:751:A:H3'	1:B:752:A:H8	1.76	0.42
1:B:820:A:H3'	1:B:2628:C:H1'	2.02	0.42
1:B:837:C:OP1	1:B:975:A:H4'	2.20	0.42
1:B:840:C:C1'	1:B:963:U:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:864:G:N2	1:B:910:A:C1'	2.83	0.42
1:B:930:G:H5"	1:B:984:A:P	2.60	0.42
1:B:1131:G:C1'	1:B:1131:G:C8	2.85	0.42
1:B:1299:G:N2	1:B:1643:G:C2'	2.82	0.42
1:B:1310:G:N7	1:B:1644:C:P	2.93	0.42
1:B:1355:G:O6	1:B:1377:G:C2	2.73	0.42
1:B:1427:A:N3	1:B:1430:C:C1'	2.83	0.42
1:B:1451:C:C4'	1:B:1526:C:N1	2.83	0.42
1:B:1453:A:N3	1:B:1525:A:C3'	2.83	0.42
1:B:1468:U:H3	1:B:1526:C:C3'	2.29	0.42
1:B:1568:G:N1	1:B:1573:G:N2	2.67	0.42
1:B:1584:U:O2'	1:B:1634:A:O3'	2.37	0.42
1:B:1584:U:C2	1:B:1586:A:H4'	2.55	0.42
1:B:1632:A:N3	1:B:1633:G:N7	2.64	0.42
1:B:1681:G:H3'	1:B:1681:G:N3	2.35	0.42
1:B:1752:C:C6	1:B:1987:A:O2'	2.57	0.42
1:B:1759:A:N9	1:B:1759:A:C2'	2.69	0.42
1:B:1791:A:C1'	1:B:1934:C:C3'	2.81	0.42
1:B:1875:G:O3'	1:B:1876:A:C4	2.72	0.42
1:B:1934:C:C5'	1:B:1935:G:OP2	2.68	0.42
1:B:1971:U:O2'	1:B:1973:G:OP2	2.37	0.42
1:B:1992:G:C5'	1:B:1993:U:H5'	2.50	0.42
1:B:2067:G:OP2	1:B:2439:A:O3'	2.37	0.42
1:B:2113:U:OP2	1:B:2177:C:N4	2.52	0.42
1:B:2202:U:O2'	1:B:2204:G:H5'	2.19	0.42
1:B:2346:A:C2'	1:B:2347:C:OP2	2.67	0.42
1:B:2639:A:O2'	1:B:2777:G:C6	2.72	0.42
1:B:2656:U:C5	1:B:2664:G:C6	3.08	0.42
1:B:2809:A:HO2'	1:B:2810:A:C4'	2.31	0.42
1:B:20:C:OP2	1:B:669:G:C8	2.73	0.42
1:B:29:U:C4	1:B:805:G:C6	3.08	0.42
1:B:62:U:O2	1:B:62:U:C2'	2.63	0.42
1:B:113:U:C5'	1:B:113:U:H3'	2.45	0.42
1:B:219:A:OP2	1:B:256:A:C2	2.72	0.42
1:B:222:A:H5"	1:B:223:A:OP1	2.19	0.42
1:B:227:A:C5	1:B:228:C:C4	3.08	0.42
1:B:262:A:H3'	1:B:430:A:P	2.59	0.42
1:B:265:A:C5	1:B:369:U:C2	3.07	0.42
1:B:268:C:C4'	1:B:269:C:O5'	2.60	0.42
1:B:453:A:O4'	1:B:478:A:H1'	2.18	0.42
1:B:453:A:C4'	1:B:478:A:C1'	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:A:C1'	1:B:470:A:C8	2.87	0.42
1:B:489:G:O2'	1:B:511:U:P	2.78	0.42
1:B:652:U:O2	1:B:652:U:C2'	2.67	0.42
1:B:655:A:H5"	1:B:656:G:N7	2.29	0.42
1:B:714:U:C2	1:B:715:A:N7	2.87	0.42
1:B:876:C:C2'	1:B:878:A:OP1	2.68	0.42
1:B:877:A:C8	1:B:900:A:N6	2.88	0.42
1:B:954:G:OP2	1:B:956:G:O6	2.38	0.42
1:B:1046:A:O3'	1:B:1050:A:P	2.78	0.42
1:B:1093:G:C2'	1:B:1098:A:H61	2.32	0.42
1:B:1131:G:C8	1:B:1133:A:O5'	2.73	0.42
1:B:1135:C:O2	1:B:1135:C:C2'	2.63	0.42
1:B:1272:A:C2'	1:B:1273:U:O5'	2.68	0.42
1:B:1510:G:H4'	1:B:1511:G:O4'	2.20	0.42
1:B:1569:A:C1'	1:B:1572:A:OP2	2.68	0.42
1:B:1610:A:N1	1:B:1612:C:H5	2.17	0.42
1:B:1625:C:C4'	1:B:1643:G:H5"	2.49	0.42
1:B:1674:G:O2'	1:B:1679:A:C5'	2.66	0.42
1:B:1691:C:O3'	1:B:1692:U:O4'	2.38	0.42
1:B:1692:U:C6	1:B:1692:U:OP2	2.73	0.42
1:B:1720:U:C3'	1:B:1720:U:O2	2.68	0.42
1:B:1795:C:H2'	1:B:1796:U:C6	2.54	0.42
1:B:2060:A:O3'	1:B:2446:G:H3'	2.19	0.42
1:B:2061:G:OP1	1:B:2061:G:H8	2.02	0.42
1:B:2530:A:C2	1:B:2531:A:C6	3.08	0.42
1:B:2534:A:C8	1:B:2535:G:N7	2.87	0.42
1:B:2654:A:N6	1:B:2666:C:C5	2.87	0.42
1:B:2724:U:N1	1:B:2724:U:C2'	2.69	0.42
1:B:2824:C:H3'	1:B:2825:G:O4'	2.20	0.42
1:B:2834:G:P	1:B:2888:C:OP2	2.78	0.42
1:B:43:G:C5	1:B:44:A:N7	2.88	0.42
1:B:52:A:H2'	1:B:53:A:OP1	2.20	0.42
1:B:112:U:C2	1:B:112:U:C2'	3.02	0.42
1:B:182:A:C2	1:B:188:G:N7	2.88	0.42
1:B:215:G:C4'	1:B:219:A:O5'	2.68	0.42
1:B:227:A:N3	1:B:432:A:H1'	2.31	0.42
1:B:228:C:C4	1:B:433:C:OP1	2.72	0.42
1:B:268:C:O2'	1:B:269:C:C5'	2.68	0.42
1:B:320:A:N9	1:B:325:G:H5'	2.34	0.42
1:B:450:G:H2'	1:B:451:U:OP2	2.20	0.42
1:B:647:G:C8	1:B:653:U:C4'	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:685:A:O3'	1:B:685:A:H3'	1.94	0.42
1:B:1005:C:OP2	1:B:1010:A:H8	2.01	0.42
1:B:1047:G:C5'	1:B:1050:A:P	3.08	0.42
1:B:1268:A:C5'	1:B:1269:A:H5"	2.50	0.42
1:B:1366:A:H3'	1:B:1367:A:H8	1.81	0.42
1:B:1371:G:N7	1:B:1374:G:C6	2.87	0.42
1:B:1371:G:C8	1:B:1374:G:N7	2.87	0.42
1:B:1427:A:N1	1:B:1574:C:H1'	2.34	0.42
1:B:1430:C:H1'	1:B:1566:A:H61	1.80	0.42
1:B:1453:A:H5'	1:B:1524:G:C8	2.52	0.42
1:B:1523:U:OP2	1:B:1527:G:C2	2.72	0.42
1:B:1654:A:C4	1:B:1655:A:N1	2.88	0.42
1:B:1674:G:O3'	1:B:1679:A:O2'	2.37	0.42
1:B:1695:G:O3'	1:B:2703:C:N4	2.52	0.42
1:B:1790:C:HO2'	1:B:2442:C:C2'	2.30	0.42
1:B:1853:A:O3'	1:B:1888:G:N9	2.52	0.42
1:B:1866:A:O4'	1:B:1866:A:H5'	2.18	0.42
1:B:1932:A:H3'	1:B:1941:C:N1	2.35	0.42
1:B:1943:U:C2	1:B:2071:A:H4'	2.54	0.42
1:B:1961:C:O2'	1:B:1962:C:C4'	2.68	0.42
1:B:2012:G:O2'	1:B:2013:A:OP1	2.35	0.42
1:B:2067:G:H5'	1:B:2439:A:P	2.44	0.42
1:B:2085:U:O2	1:B:2086:U:H4'	2.20	0.42
1:B:2113:U:H4'	1:B:2113:U:H5'	1.90	0.42
1:B:2572:A:N9	1:B:2572:A:C2'	2.70	0.42
1:B:2685:G:C4'	1:B:2685:G:H5'	2.19	0.42
1:B:2847:U:N1	1:B:2847:U:C2'	2.70	0.42
1:B:12:U:P	1:B:1195:G:C2	3.09	0.42
1:B:25:U:O2	1:B:26:G:C8	2.72	0.42
1:B:64:A:C2'	1:B:65:U:C5	3.01	0.42
1:B:72:U:C5'	1:B:118:A:C2	3.03	0.42
1:B:93:G:O4'	1:B:504:A:P	2.77	0.42
1:B:100:U:H5'	1:B:120:U:P	2.60	0.42
1:B:322:A:C3'	1:B:323:C:P	2.93	0.42
1:B:429:A:HO3'	1:B:430:A:P	2.39	0.42
1:B:451:U:C2	1:B:451:U:C2'	3.03	0.42
1:B:451:U:O3'	1:B:452:G:O3'	2.38	0.42
1:B:528:A:N9	1:B:528:A:C2'	2.69	0.42
1:B:570:G:H21	1:B:2043:C:P	2.42	0.42
1:B:574:A:O5'	1:B:2044:C:P	2.77	0.42
1:B:577:G:OP1	1:B:2019:A:O3'	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:735:A:C1'	1:B:736:C:H5	2.25	0.42
1:B:762:U:N1	1:B:763:G:C4'	2.67	0.42
1:B:819:A:N7	1:B:820:A:H8	2.17	0.42
1:B:896:A:H3'	1:B:896:A:P	2.59	0.42
1:B:1018:U:O4	1:B:1132:U:H1'	2.20	0.42
1:B:1371:G:N3	1:B:1371:G:H2'	2.34	0.42
1:B:1523:U:C2	1:B:1528:A:H5'	2.55	0.42
1:B:1570:A:C2	1:B:1572:A:C4'	3.03	0.42
1:B:1669:A:C4'	1:B:1670:C:OP1	2.56	0.42
1:B:1884:G:H5"	1:B:1885:A:OP1	2.18	0.42
1:B:1905:C:O3'	1:B:1928:A:P	2.78	0.42
1:B:2063:C:N4	1:B:2553:G:O2'	2.53	0.42
1:B:2111:U:O2'	1:B:2113:U:C5'	2.68	0.42
1:B:2243:U:H2'	1:B:2244:U:O5'	2.20	0.42
1:B:2534:A:N7	1:B:2535:G:N7	2.67	0.42
1:B:2566:A:O5'	1:B:2567:G:C8	2.73	0.42
1:B:2705:A:N7	1:B:2706:A:C5	2.88	0.42
1:B:2879:A:C5'	1:B:2880:C:C6	2.97	0.42
1:B:45:G:P	1:B:46:G:C8	3.13	0.42
1:B:55:G:N7	1:B:73:A:N6	2.67	0.42
1:B:71:A:C8	1:B:101:A:C6	3.01	0.42
1:B:72:U:OP1	1:B:105:C:OP1	2.37	0.42
1:B:86:G:OP1	1:B:88:G:O6	2.37	0.42
1:B:206:U:C5'	1:B:207:A:P	3.08	0.42
1:B:221:A:C2	1:B:278:A:C2	3.08	0.42
1:B:225:C:C5'	1:B:226:A:OP2	2.63	0.42
1:B:242:G:OP2	1:B:255:A:H8	2.03	0.42
1:B:329:G:H2'	1:B:330:A:OP1	2.20	0.42
1:B:452:G:C5'	1:B:453:A:O5'	2.66	0.42
1:B:455:C:C5	1:B:456:C:H3'	2.55	0.42
1:B:457:A:C2	1:B:458:G:H2'	2.46	0.42
1:B:500:G:C5'	1:B:503:A:H5"	2.50	0.42
1:B:500:G:OP2	1:B:503:A:OP2	2.37	0.42
1:B:792:A:C5	1:B:794:A:N7	2.88	0.42
1:B:820:A:H3'	1:B:2628:C:C2	2.55	0.42
1:B:876:C:H1'	1:B:879:G:C6	2.54	0.42
1:B:945:A:N9	1:B:945:A:C2'	2.69	0.42
1:B:958:U:N1	1:B:958:U:C2'	2.70	0.42
1:B:1049:C:N4	1:B:1050:A:C8	2.88	0.42
1:B:1127:A:N9	1:B:1127:A:C2'	2.70	0.42
1:B:1189:A:C4'	1:B:1190:G:H5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1199:U:P	1:B:1257:C:H4'	2.60	0.42
1:B:1271:G:P	1:B:1648:U:OP2	2.78	0.42
1:B:1309:G:C1'	1:B:1309:G:C8	2.83	0.42
1:B:1342:A:N9	1:B:1342:A:C2'	2.70	0.42
1:B:1427:A:C5	1:B:1574:C:C6	3.08	0.42
1:B:1453:A:O3'	1:B:1524:G:H3'	2.20	0.42
1:B:1454:C:OP1	1:B:1526:C:O5'	2.38	0.42
1:B:1570:A:C4	1:B:1572:A:O4'	2.73	0.42
1:B:1580:A:C5'	1:B:1633:G:OP1	2.68	0.42
1:B:1813:G:C8	1:B:1814:G:H5"	2.55	0.42
1:B:1847:A:C2	1:B:2232:C:H5'	2.55	0.42
1:B:1865:U:C3'	1:B:1866:A:OP2	2.68	0.42
1:B:1906:G:P	1:B:1937:A:OP2	2.78	0.42
1:B:1932:A:N7	1:B:1937:A:OP1	2.52	0.42
1:B:2068:U:OP2	1:B:2438:U:C3'	2.68	0.42
1:B:2108:A:OP1	1:B:2110:G:C8	2.72	0.42
1:B:2113:U:C4	1:B:2120:G:C8	3.05	0.42
1:B:2638:G:OP1	1:B:2638:G:O3'	2.38	0.42
1:B:2654:A:C6	1:B:2655:G:N2	2.88	0.42
1:B:2820:A:H1'	1:B:2821:A:C4'	2.50	0.42
1:B:2846:G:O5'	1:B:2848:G:C4'	2.68	0.42
1:B:28:A:O2'	1:B:1250:G:O5'	2.37	0.41
1:B:124:G:H21	1:B:125:A:H5"	1.84	0.41
1:B:206:U:H2'	1:B:208:C:H5'	2.00	0.41
1:B:221:A:N1	1:B:278:A:C2	2.88	0.41
1:B:412:A:H5'	1:B:2406:A:H62	1.85	0.41
1:B:509:C:C2	1:B:509:C:C2'	3.03	0.41
1:B:510:C:O5'	1:B:511:U:H1'	2.20	0.41
1:B:547:A:N9	1:B:547:A:C2'	2.71	0.41
1:B:914:G:C1'	1:B:917:A:P	3.06	0.41
1:B:931:U:C5'	1:B:934:U:H5	2.32	0.41
1:B:1050:A:H5"	1:B:1051:G:C3'	2.49	0.41
1:B:1130:U:O3'	1:B:2753:A:OP2	2.38	0.41
1:B:1130:U:C4'	1:B:2749:A:H8	2.31	0.41
1:B:1326:U:C4	1:B:1327:A:C5'	2.97	0.41
1:B:1353:A:H1'	1:B:1373:A:OP1	2.17	0.41
1:B:1445:G:O2'	1:B:1543:G:N7	2.50	0.41
1:B:1523:U:H3'	1:B:1524:G:C5'	2.49	0.41
1:B:1597:A:C8	1:B:1598:A:H5'	2.55	0.41
1:B:1626:A:H4'	1:B:1627:G:H5"	1.83	0.41
1:B:1757:A:O2'	1:B:1760:C:H1'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1790:C:P	1:B:1971:U:C5'	3.08	0.41
1:B:1847:A:C3'	1:B:1848:A:P	3.08	0.41
1:B:1855:U:C6	1:B:1886:U:H5"	2.55	0.41
1:B:1857:G:C4'	1:B:1857:G:H5'	2.24	0.41
1:B:1875:G:OP1	1:B:1876:A:H2'	2.19	0.41
1:B:1905:C:O2'	1:B:1927:A:H5'	2.19	0.41
1:B:1931:U:C4'	1:B:1935:G:O4'	2.68	0.41
1:B:1935:G:C2	1:B:1939:5MU:C6	3.07	0.41
1:B:1991:U:OP2	1:B:1992:G:N7	2.51	0.41
1:B:2110:G:C4	1:B:2119:A:N7	2.88	0.41
1:B:2111:U:C1'	1:B:2112:G:O5'	2.68	0.41
1:B:2451:A:C2	1:B:2563:U:OP2	2.73	0.41
1:B:2690:U:O2'	1:B:2727:A:H8	1.98	0.41
1:B:2726:A:O5'	1:B:2727:A:H4'	2.20	0.41
1:B:2883:A:N9	1:B:2883:A:C2'	2.69	0.41
1:B:56:A:O2'	1:B:57:C:C5'	2.67	0.41
1:B:75:G:H5"	1:B:113:U:HO2'	1.82	0.41
1:B:120:U:H1'	1:B:148:U:H5"	2.02	0.41
1:B:138:U:C2'	1:B:139:U:C5'	2.98	0.41
1:B:139:U:N1	1:B:139:U:C2'	2.70	0.41
1:B:206:U:H5"	1:B:207:A:P	2.60	0.41
1:B:221:A:N7	1:B:223:A:C1'	2.82	0.41
1:B:241:A:N6	1:B:275:C:OP2	2.53	0.41
1:B:400:G:C5'	1:B:401:A:OP1	2.67	0.41
1:B:447:A:H4'	1:B:479:A:H1'	2.01	0.41
1:B:457:A:C1'	1:B:457:A:C8	2.86	0.41
1:B:517:C:OP2	1:B:1248:G:H1'	2.19	0.41
1:B:563:A:H61	1:B:988:A:N6	2.17	0.41
1:B:749:A:OP1	1:B:752:A:N6	2.42	0.41
1:B:760:G:C5'	1:B:761:A:O5'	2.58	0.41
1:B:861:A:C4'	1:B:861:A:H5"	2.24	0.41
1:B:861:A:H5"	1:B:862:G:N7	2.30	0.41
1:B:920:A:C8	1:B:921:C:C4'	3.00	0.41
1:B:1006:C:H5"	1:B:1007:C:O5'	2.16	0.41
1:B:1019:U:O2'	1:B:1027:A:N7	2.49	0.41
1:B:1041:G:P	1:B:1050:A:O4'	2.77	0.41
1:B:1049:C:C5	1:B:1050:A:C3'	3.03	0.41
1:B:1077:A:H2'	1:B:1078:U:O4'	2.20	0.41
1:B:1130:U:OP2	1:B:2751:G:OP1	2.38	0.41
1:B:1133:A:C1'	1:B:1142:A:N1	2.81	0.41
1:B:1135:C:C2	1:B:1139:G:O3'	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1263:U:O2	1:B:1269:A:O4'	2.35	0.41
1:B:1301:A:H3'	1:B:1303:G:C2	2.56	0.41
1:B:1378:A:N3	1:B:1378:A:H2'	2.35	0.41
1:B:1426:G:O5'	1:B:1567:G:O3'	2.38	0.41
1:B:1579:A:C2	1:B:1580:A:O5'	2.73	0.41
1:B:1671:U:H5'	1:B:1704:C:OP1	2.19	0.41
1:B:1679:A:O5'	1:B:1702:G:O6	2.38	0.41
1:B:1790:C:N4	1:B:1830:C:C6	2.89	0.41
1:B:1950:G:H4'	1:B:1951:U:OP1	2.19	0.41
1:B:2042:A:HO2'	1:B:2043:C:H6	1.50	0.41
1:B:2067:G:OP1	1:B:2439:A:C5'	2.68	0.41
1:B:2330:G:H3'	1:B:2331:G:H5'	2.03	0.41
1:B:2345:G:OP1	1:B:2380:C:C5	2.73	0.41
1:B:2387:U:H5"	1:B:2388:A:C8	2.55	0.41
1:B:2468:A:C4'	1:B:2469:A:C6	3.03	0.41
1:B:2554:U:C2	1:B:2554:U:C2'	3.03	0.41
1:B:1:G:OP1	1:B:2904:U:C2	2.73	0.41
1:B:28:A:C4'	1:B:1251:C:O2'	2.68	0.41
1:B:61:C:H1'	1:B:88:G:OP2	2.21	0.41
1:B:70:G:H5'	1:B:85:G:O2'	2.20	0.41
1:B:71:A:H5"	1:B:105:C:C5'	2.51	0.41
1:B:113:U:OP1	1:B:119:A:N9	2.53	0.41
1:B:207:A:C3'	1:B:208:C:P	3.08	0.41
1:B:240:C:O3'	1:B:275:C:C5'	2.64	0.41
1:B:310:A:N9	1:B:310:A:C2'	2.71	0.41
1:B:318:C:H5"	1:B:319:G:P	2.59	0.41
1:B:411:G:O5'	1:B:2407:A:OP1	2.38	0.41
1:B:416:U:HO2'	1:B:417:C:C5'	1.91	0.41
1:B:616:A:N9	1:B:616:A:C2'	2.70	0.41
1:B:699:A:N1	1:B:734:A:C6	2.88	0.41
1:B:875:G:C5	1:B:876:C:C5	2.95	0.41
1:B:1107:G:C6	1:B:1108:U:N3	2.88	0.41
1:B:1115:G:N2	1:B:2749:A:OP2	2.53	0.41
1:B:1134:A:OP1	1:B:1143:A:C4	2.73	0.41
1:B:1263:U:O2	1:B:1269:A:C5'	2.63	0.41
1:B:1282:U:H2'	1:B:1282:U:O2	2.20	0.41
1:B:1371:G:C8	1:B:1374:G:C5	3.08	0.41
1:B:1571:A:N3	1:B:1572:A:O5'	2.52	0.41
1:B:1672:A:N9	1:B:1673:G:O3'	2.53	0.41
1:B:1675:C:OP1	1:B:1678:A:C8	2.73	0.41
1:B:1680:U:OP2	1:B:1700:A:C3'	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1740:G:N3	1:B:1740:G:P	2.93	0.41
1:B:1790:C:C5'	1:B:2443:C:C4'	2.79	0.41
1:B:1826:G:C5'	1:B:1966:A:H4'	2.51	0.41
1:B:1928:A:H5"	1:B:1938:A:P	2.60	0.41
1:B:1930:G:H5"	1:B:1935:G:P	2.57	0.41
1:B:2061:G:C2'	1:B:2553:G:O3'	2.67	0.41
1:B:2145:C:O2	1:B:2145:C:C2'	2.67	0.41
1:B:2199:A:H2'	1:B:2200:C:H4'	1.97	0.41
1:B:2324:U:H3'	1:B:2325:G:C5'	2.49	0.41
1:B:2345:G:O5'	1:B:2381:A:C5	2.73	0.41
1:B:2457:U:O2'	1:B:2458:G:H5'	2.21	0.41
1:B:2639:A:N7	1:B:2641:G:OP2	2.53	0.41
1:B:2682:A:O2'	1:B:2720:U:O2'	2.31	0.41
1:B:2690:U:O5'	1:B:2727:A:C1'	2.60	0.41
1:B:2739:U:O2	1:B:2739:U:H2'	2.20	0.41
1:B:2789:C:N4	1:B:2887:A:H61	2.11	0.41
1:B:28:A:H4'	1:B:1251:C:O2'	2.20	0.41
1:B:164:C:C3'	1:B:165:A:H5'	2.50	0.41
1:B:216:A:N9	1:B:216:A:C2'	2.70	0.41
1:B:529:A:C2	1:B:972:A:N6	2.87	0.41
1:B:578:G:C5'	1:B:579:G:H5'	2.28	0.41
1:B:600:G:O3'	1:B:602:A:C4'	2.55	0.41
1:B:685:A:C1'	1:B:788:A:H8	2.31	0.41
1:B:783:A:C2'	1:B:784:G:O5'	2.38	0.41
1:B:837:C:C5'	1:B:975:A:C3'	2.76	0.41
1:B:862:G:O2'	1:B:863:A:C5'	2.67	0.41
1:B:896:A:C1'	1:B:897:C:H5'	2.51	0.41
1:B:920:A:H3'	1:B:921:C:O4'	2.19	0.41
1:B:931:U:H5'	1:B:934:U:H5	1.86	0.41
1:B:971:G:C1'	1:B:972:A:N1	2.74	0.41
1:B:1008:A:N9	1:B:1008:A:C2'	2.70	0.41
1:B:1116:G:C3'	1:B:2750:A:O3'	2.69	0.41
1:B:1203:U:H3	1:B:1241:A:P	2.42	0.41
1:B:1347:A:HO3'	1:B:1348:C:P	2.31	0.41
1:B:1427:A:C2	1:B:1430:C:C1'	3.04	0.41
1:B:1524:G:OP1	1:B:1527:G:O3'	2.38	0.41
1:B:1571:A:N1	1:B:1572:A:C3'	2.84	0.41
1:B:1582:C:O2	1:B:1634:A:C8	2.67	0.41
1:B:1608:A:C2'	1:B:1622:G:OP2	2.69	0.41
1:B:1743:G:O2'	1:B:1744:A:C8	2.71	0.41
1:B:1868:C:H5"	1:B:1869:G:P	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1912:A:C2	1:B:1915:5MU:C5	3.08	0.41
1:B:1912:A:C5'	1:B:1913:A:OP2	2.68	0.41
1:B:1928:A:O4'	1:B:1936:A:C3'	2.68	0.41
1:B:1981:A:N9	1:B:1981:A:C2'	2.71	0.41
1:B:1981:A:C2	1:B:1982:U:C4	3.08	0.41
1:B:2014:A:O5'	1:B:2015:A:OP1	2.38	0.41
1:B:2202:U:H3'	1:B:2204:G:P	2.59	0.41
1:B:2236:U:H2'	1:B:2237:G:C5'	2.50	0.41
1:B:2298:A:OP1	1:B:2298:A:C8	2.70	0.41
1:B:2449:5MU:H6	1:B:2449:5MU:H3'	1.85	0.41
1:B:2504:U:C3'	1:B:2505:G:P	3.08	0.41
1:B:2505:G:O3'	1:B:2506:U:OP1	2.36	0.41
1:B:2801:G:N7	1:B:2892:G:O6	2.53	0.41
1:B:2860:A:O5'	1:B:2861:U:OP2	2.39	0.41
1:B:9:G:N3	1:B:527:C:OP1	2.54	0.41
1:B:64:A:H3'	1:B:68:G:C2	2.56	0.41
1:B:78:U:O3'	1:B:126:A:C6	2.73	0.41
1:B:87:U:O2	1:B:497:A:C3'	2.68	0.41
1:B:178:G:H8	1:B:179:C:C5	2.31	0.41
1:B:216:A:O5'	1:B:218:A:C2'	2.69	0.41
1:B:257:C:C3'	1:B:258:G:C5'	2.89	0.41
1:B:257:C:C1'	1:B:258:G:H5'	2.40	0.41
1:B:294:A:P	1:B:295:G:OP1	2.78	0.41
1:B:386:G:H2'	1:B:387:U:N1	2.35	0.41
1:B:423:A:C2	1:B:425:G:H5'	2.54	0.41
1:B:760:G:H5"	1:B:761:A:C5'	2.35	0.41
1:B:773:U:H4'	1:B:780:G:H22	1.82	0.41
1:B:820:A:H3'	1:B:2628:C:C1'	2.51	0.41
1:B:839:U:P	1:B:961:C:N4	2.93	0.41
1:B:863:A:C8	1:B:867:C:P	3.13	0.41
1:B:959:A:N9	1:B:959:A:C2'	2.70	0.41
1:B:981:A:N9	1:B:981:A:C2'	2.71	0.41
1:B:1189:A:O3'	1:B:1190:G:OP1	2.28	0.41
1:B:1298:C:HO2'	1:B:1299:G:C5'	2.32	0.41
1:B:1632:A:C6	1:B:1634:A:N6	2.89	0.41
1:B:1653:G:C3'	1:B:1654:A:H3'	2.50	0.41
1:B:1714:U:O2'	1:B:1721:G:H4'	2.21	0.41
1:B:1781:U:OP2	1:B:1782:U:H5	2.04	0.41
1:B:1852:U:H3'	1:B:1885:A:C1'	2.50	0.41
1:B:1857:G:P	1:B:1886:U:H3	2.37	0.41
1:B:2060:A:C3'	1:B:2446:G:C5'	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2138:G:H2'	1:B:2139:U:C2	2.56	0.41
1:B:2468:A:H3'	1:B:2469:A:N6	2.25	0.41
1:B:2774:C:N3	1:B:2775:G:H1'	2.36	0.41
1:B:2870:C:O2'	1:B:2872:A:C4'	2.65	0.41
1:B:1:G:C8	1:B:2904:U:C2	3.09	0.41
1:B:72:U:C3'	1:B:114:U:H5"	2.46	0.41
1:B:100:U:O2	1:B:100:U:C2'	2.60	0.41
1:B:103:A:C8	1:B:104:A:C6	3.08	0.41
1:B:203:A:C3'	1:B:204:A:OP2	2.68	0.41
1:B:263:G:O3'	1:B:370:G:P	2.79	0.41
1:B:300:A:N9	1:B:300:A:C2'	2.70	0.41
1:B:362:A:C5'	1:B:428:A:H3'	2.50	0.41
1:B:507:A:C4	1:B:518:G:C5'	3.04	0.41
1:B:575:A:C4	1:B:2625:G:N2	2.77	0.41
1:B:631:A:N9	1:B:631:A:C2'	2.70	0.41
1:B:652:U:C2	1:B:652:U:C2'	3.04	0.41
1:B:686:U:OP2	1:B:687:C:C4	2.73	0.41
1:B:805:G:C2'	1:B:1252:G:P	3.09	0.41
1:B:810:U:C2'	1:B:810:U:C2	3.03	0.41
1:B:828:U:N3	1:B:829:A:N6	2.69	0.41
1:B:972:A:C5'	1:B:972:A:HO5'	2.14	0.41
1:B:1025:G:N2	1:B:1026:G:H8	1.89	0.41
1:B:1135:C:P	1:B:1140:C:H2'	2.61	0.41
1:B:1203:U:O2	1:B:1240:U:C5	2.73	0.41
1:B:1242:U:O2	1:B:1242:U:C2'	2.66	0.41
1:B:1282:U:N1	1:B:1282:U:C2'	2.70	0.41
1:B:1283:G:O2'	1:B:2013:A:C5'	2.69	0.41
1:B:1579:A:C2	1:B:1580:A:OP2	2.73	0.41
1:B:1581:G:C5'	1:B:1628:G:P	2.98	0.41
1:B:1663:G:OP1	1:B:1664:A:H5"	2.20	0.41
1:B:1693:U:C3'	1:B:1694:C:C6	2.97	0.41
1:B:1718:G:H2'	1:B:1720:U:O4'	2.20	0.41
1:B:1752:C:C5'	1:B:1988:G:P	2.97	0.41
1:B:1758:U:N1	1:B:1758:U:C2'	2.70	0.41
1:B:1935:G:C1'	1:B:1935:G:C8	2.83	0.41
1:B:2030:1MA:HM11	1:B:2031:A:C6	2.55	0.41
1:B:2060:A:HO2'	1:B:2558:C:C1'	2.32	0.41
1:B:2170:A:N9	1:B:2170:A:C2'	2.70	0.41
1:B:2327:A:C3'	1:B:2328:A:OP1	2.69	0.41
1:B:2366:A:H5"	1:B:2367:G:C4'	2.50	0.41
1:B:2468:A:C5'	1:B:2469:A:N1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2654:A:H4'	1:B:2655:G:H4'	2.02	0.41
1:B:2719:G:P	1:B:2720:U:O4'	2.79	0.41
1:B:2720:U:HO2'	1:B:2721:A:C5'	2.33	0.41
1:B:2747:G:O2'	1:B:2748:A:C2	2.69	0.41
1:B:2868:A:O3'	1:B:2871:U:O2	2.39	0.41
1:B:2879:A:H4'	1:B:2880:C:H6	1.75	0.41
1:B:73:A:C3'	1:B:113:U:O2'	2.64	0.41
1:B:102:U:N3	1:B:119:A:N1	2.68	0.41
1:B:120:U:O2	1:B:148:U:C3'	2.57	0.41
1:B:120:U:C5	1:B:121:G:OP2	2.65	0.41
1:B:161:A:H2'	1:B:162:U:C5	2.51	0.41
1:B:180:G:H2'	1:B:189:G:N1	2.35	0.41
1:B:221:A:N1	1:B:278:A:H2	2.19	0.41
1:B:257:C:N3	1:B:258:G:H4'	2.35	0.41
1:B:397:U:N3	1:B:398:C:C4	2.89	0.41
1:B:399:U:HO2'	1:B:400:G:C5'	2.31	0.41
1:B:453:A:N9	1:B:453:A:C2'	2.70	0.41
1:B:489:G:H8	1:B:490:C:N4	2.19	0.41
1:B:498:G:C5'	1:B:498:G:O4'	2.56	0.41
1:B:597:G:O2'	1:B:937:C:H5"	2.21	0.41
1:B:627:A:N9	1:B:627:A:C2'	2.71	0.41
1:B:746:PSU:O2'	1:B:752:A:C2	2.69	0.41
1:B:820:A:H3'	1:B:820:A:N3	2.35	0.41
1:B:857:G:H1'	1:B:913:U:O2'	2.20	0.41
1:B:1116:G:O2'	1:B:1130:U:OP2	2.25	0.41
1:B:1135:C:OP1	1:B:1140:C:H2'	2.21	0.41
1:B:1135:C:C4'	1:B:1140:C:H3'	2.50	0.41
1:B:1266:G:N2	1:B:1270:C:O2'	2.54	0.41
1:B:1300:G:C1'	1:B:1300:G:C8	2.83	0.41
1:B:1326:U:C5	1:B:1327:A:O5'	2.73	0.41
1:B:1348:C:P	1:B:1348:C:HO5'	2.30	0.41
1:B:1370:C:OP2	1:B:1371:G:O3'	2.39	0.41
1:B:1379:U:C4'	1:B:1380:G:C8	3.03	0.41
1:B:1470:A:C2'	1:B:1471:G:OP1	2.66	0.41
1:B:1609:A:C5'	1:B:1609:A:H4'	2.24	0.41
1:B:1664:A:O5'	1:B:1665:A:OP2	2.38	0.41
1:B:1672:A:C8	1:B:1673:G:O2'	2.64	0.41
1:B:1674:G:H4'	1:B:1678:A:N1	2.34	0.41
1:B:1676:A:C8	1:B:1690:A:C1'	2.95	0.41
1:B:1693:U:C5'	1:B:2702:G:N2	2.60	0.41
1:B:1712:U:C3'	1:B:1713:A:C4'	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1754:A:H5”	1:B:1755:A:P	2.61	0.41
1:B:1833:C:H2’	1:B:1930:G:O3’	2.21	0.41
1:B:1855:U:O2’	1:B:1884:G:H2’	2.18	0.41
1:B:1857:G:C3’	1:B:1888:G:C5’	2.99	0.41
1:B:1910:G:H2’	1:B:1911:PSU:H6	1.84	0.41
1:B:1931:U:C2	1:B:1931:U:O2’	2.73	0.41
1:B:1941:C:O2’	1:B:1972:G:N9	2.53	0.41
1:B:1966:A:C2’	1:B:1967:C:H3’	2.51	0.41
1:B:2067:G:P	1:B:2439:A:P	3.19	0.41
1:B:2273:A:N9	1:B:2273:A:C2’	2.71	0.41
1:B:2333:A:N9	1:B:2333:A:C2’	2.71	0.41
1:B:2451:A:N7	1:B:2567:G:C2	2.89	0.41
1:B:2504:U:C5	1:B:2579:C:P	3.12	0.41
1:B:2574:G:OP1	1:B:2574:G:N2	2.54	0.41
1:B:2617:U:O2’	1:B:2618:G:H5’	2.20	0.41
1:B:2629:U:O2’	1:B:2630:G:C5’	2.67	0.41
1:B:2833:U:OP1	1:B:2834:G:C5’	2.69	0.41
1:B:2834:G:HO2’	1:B:2879:A:H61	1.62	0.41
1:B:2847:U:C2	1:B:2847:U:C2’	3.04	0.41
1:B:239:C:C4	1:B:276:U:H5”	2.54	0.41
1:B:458:G:H8	1:B:594:U:OP2	2.04	0.41
1:B:477:A:N3	1:B:478:A:OP1	2.53	0.41
1:B:571:U:O5’	1:B:572:A:C5’	2.68	0.41
1:B:574:A:C4’	1:B:2043:C:O3’	2.64	0.41
1:B:800:A:N7	1:B:1200:C:C1’	2.63	0.41
1:B:863:A:C4	1:B:864:G:H4’	2.55	0.41
1:B:1117:C:OP1	1:B:1128:G:N2	2.54	0.41
1:B:1240:U:OP2	1:B:1241:A:H3’	2.21	0.41
1:B:1294:U:C4	1:B:1295:C:N1	2.89	0.41
1:B:1351:C:C5’	1:B:1352:U:OP2	2.69	0.41
1:B:1391:U:H5”	1:B:1392:A:OP2	2.21	0.41
1:B:1463:C:H41	1:B:1544:A:C1’	2.06	0.41
1:B:1492:G:C3’	1:B:1493:C:C5’	2.73	0.41
1:B:1671:U:OP1	1:B:1750:G:OP1	2.39	0.41
1:B:1743:G:HO2’	1:B:1744:A:H8	1.65	0.41
1:B:1782:U:C3’	1:B:1783:A:H8	2.34	0.41
1:B:1790:C:H6	1:B:1970:A:C5’	2.24	0.41
1:B:1795:C:HO2’	1:B:1965:C:N4	2.13	0.41
1:B:1823:G:OP1	1:B:1831:G:H4’	2.20	0.41
1:B:1857:G:C1’	1:B:1857:G:C8	2.86	0.41
1:B:1948:G:P	1:B:1964:G:O3’	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2326:C:H5”	1:B:2327:A:C8	2.56	0.41
1:B:2453:A:C4’	1:B:2453:A:H5’	2.22	0.41
1:B:2502:G:H2’	1:B:2502:G:N3	2.36	0.41
1:B:2643:G:C5’	1:B:2644:G:P	3.06	0.41
1:B:27:G:H3’	1:B:1249:U:C1’	2.46	0.41
1:B:28:A:C2’	1:B:1250:G:OP1	2.69	0.41
1:B:76:C:O3’	1:B:120:U:C5’	2.69	0.41
1:B:92:U:C5’	1:B:92:U:O4’	2.58	0.41
1:B:103:A:C2’	1:B:104:A:N7	2.78	0.41
1:B:109:C:N4	1:B:112:U:H1’	2.35	0.41
1:B:144:A:OP2	1:B:1328:A:C4	2.71	0.41
1:B:202:U:O2’	1:B:204:A:N9	2.39	0.41
1:B:213:A:C6	1:B:218:A:H8	2.26	0.41
1:B:233:A:N6	1:B:235:U:C5’	2.84	0.41
1:B:243:U:C5	1:B:256:A:N6	2.87	0.41
1:B:369:U:C4’	1:B:369:U:H5’	2.19	0.41
1:B:374:A:OP2	1:B:376:G:H5’	2.18	0.41
1:B:397:U:N3	1:B:398:C:C5	2.88	0.41
1:B:450:G:C6	1:B:592:A:H2	2.24	0.41
1:B:480:A:OP1	1:B:670:A:H2’	2.20	0.41
1:B:566:U:C4	1:B:836:G:OP1	2.74	0.41
1:B:673:C:C3’	1:B:1249:U:OP2	2.69	0.41
1:B:751:A:C3’	1:B:752:A:C8	2.96	0.41
1:B:752:A:H8	1:B:752:A:P	2.41	0.41
1:B:800:A:C5	1:B:1200:C:H1’	2.49	0.41
1:B:805:G:C4	1:B:1252:G:H5”	2.56	0.41
1:B:806:C:C5	1:B:807:U:H5”	2.56	0.41
1:B:837:C:C5’	1:B:975:A:H5”	2.42	0.41
1:B:841:G:OP2	1:B:932:U:C2	2.71	0.41
1:B:861:A:H4’	1:B:862:G:O5’	2.21	0.41
1:B:861:A:H2	1:B:862:G:O6	1.98	0.41
1:B:926:G:O2’	1:B:927:A:P	2.79	0.41
1:B:1012:U:O2’	1:B:1013:C:C5	2.70	0.41
1:B:1134:A:H5’	1:B:1141:U:H4’	2.01	0.41
1:B:1263:U:H3	1:B:1269:A:P	2.43	0.41
1:B:1282:U:O2	1:B:1285:A:C5	2.74	0.41
1:B:1298:C:C3’	1:B:1339:G:C2	3.02	0.41
1:B:1392:A:N9	1:B:1392:A:C2’	2.70	0.41
1:B:1520:U:H3’	1:B:1536:C:H5’	2.03	0.41
1:B:1523:U:OP2	1:B:1527:G:N3	2.54	0.41
1:B:1533:C:C2’	1:B:1534:U:C5	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1564:C:O2'	1:B:1565:C:H5'	2.21	0.41
1:B:1584:U:O4	1:B:1588:G:O6	2.39	0.41
1:B:1586:A:C8	1:B:1588:G:OP2	2.74	0.41
1:B:1635:A:C6	1:B:1636:U:C2	3.09	0.41
1:B:1672:A:C8	1:B:1673:G:H2'	2.55	0.41
1:B:1676:A:C8	1:B:1690:A:N3	2.89	0.41
1:B:1739:A:O3'	1:B:1740:G:C2	2.74	0.41
1:B:1751:U:H5"	1:B:1752:C:P	2.61	0.41
1:B:1752:C:C3'	1:B:1988:G:H5'	2.49	0.41
1:B:1846:G:OP1	1:B:1847:A:C8	2.74	0.41
1:B:1853:A:C5'	1:B:1857:G:C3'	2.84	0.41
1:B:1855:U:H6	1:B:1886:U:H5"	1.86	0.41
1:B:1870:C:N3	1:B:1871:A:N7	2.69	0.41
1:B:1876:A:P	1:B:1877:A:N7	2.94	0.41
1:B:1884:G:C1'	1:B:1885:A:C2	3.01	0.41
1:B:1886:U:O2	1:B:1886:U:C2'	2.65	0.41
1:B:1912:A:C4	1:B:1915:5MU:H72	2.55	0.41
1:B:1915:5MU:C2'	1:B:1916:A:H5'	2.51	0.41
1:B:1932:A:N7	1:B:1938:A:O4'	2.54	0.41
1:B:1936:A:C4	1:B:1938:A:C8	3.09	0.41
1:B:1939:5MU:C5'	1:B:1939:5MU:O2'	2.69	0.41
1:B:2041:U:H2'	1:B:2042:A:OP2	2.21	0.41
1:B:2111:U:P	1:B:2113:U:H3	2.43	0.41
1:B:2112:G:H2'	1:B:2178:C:C6	2.54	0.41
1:B:2113:U:OP2	1:B:2177:C:C4	2.74	0.41
1:B:2253:G:H4'	1:B:2254:C:C5	2.55	0.41
1:B:2284:A:N7	1:B:2388:A:C5'	2.84	0.41
1:B:2358:A:H2'	1:B:2358:A:N3	2.36	0.41
1:B:2358:A:H4'	1:B:2359:C:OP2	2.20	0.41
1:B:2433:A:H5'	1:B:2434:A:N9	2.34	0.41
1:B:2451:A:C8	1:B:2563:U:C5	3.09	0.41
1:B:2465:C:H5"	1:B:2468:A:C6	2.54	0.41
1:B:2504:U:H5	1:B:2579:C:P	2.44	0.41
1:B:2530:A:C6	1:B:2531:A:N6	2.89	0.41
1:B:2848:G:C5'	1:B:2870:C:H5'	2.47	0.41
1:B:9:G:C1'	1:B:9:G:C8	2.86	0.41
1:B:14:A:H5'	1:B:1256:G:O6	2.21	0.41
1:B:28:A:OP2	1:B:1249:U:H4'	2.21	0.41
1:B:98:G:O4'	1:B:103:A:C8	2.73	0.41
1:B:124:G:N3	1:B:125:A:H5'	2.33	0.41
1:B:144:A:H1'	1:B:1326:U:C2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:A:P	1:B:257:C:O4'	2.79	0.41
1:B:241:A:C6	1:B:275:C:H5'	2.56	0.41
1:B:265:A:C1'	1:B:369:U:C1'	2.99	0.41
1:B:322:A:OP2	1:B:323:C:H3'	2.21	0.41
1:B:390:U:O4	1:B:391:A:N6	2.53	0.41
1:B:498:G:N9	1:B:498:G:C2'	2.69	0.41
1:B:512:G:N2	1:B:514:A:OP2	2.54	0.41
1:B:593:U:H2'	1:B:594:U:C6	2.56	0.41
1:B:607:U:O2	1:B:619:G:N2	2.54	0.41
1:B:674:G:OP2	1:B:1249:U:O5'	2.39	0.41
1:B:745:7MG:H5'	1:B:2614:A:C6	2.55	0.41
1:B:745:7MG:OP2	1:B:748:G:H1'	2.20	0.41
1:B:800:A:OP2	1:B:800:A:C2	2.73	0.41
1:B:801:G:C1'	1:B:801:G:C8	2.84	0.41
1:B:805:G:N3	1:B:1252:G:P	2.94	0.41
1:B:896:A:H4'	1:B:897:C:OP1	2.21	0.41
1:B:914:G:N2	1:B:916:G:C2'	2.82	0.41
1:B:941:A:C5'	1:B:947:A:H4'	2.50	0.41
1:B:1085:A:H1'	1:B:1105:U:H1'	2.03	0.41
1:B:1199:U:OP1	1:B:1257:C:C4'	2.69	0.41
1:B:1370:C:OP1	1:B:1373:A:C6	2.74	0.41
1:B:1447:C:N4	1:B:1543:G:H22	2.16	0.41
1:B:1451:C:H5"	1:B:1526:C:N1	2.33	0.41
1:B:1496:A:N9	1:B:1496:A:C2'	2.71	0.41
1:B:1627:G:N9	1:B:1641:A:C8	2.83	0.41
1:B:1653:G:H2'	1:B:1654:A:C2	2.55	0.41
1:B:1673:G:H5"	1:B:1680:U:H3	1.83	0.41
1:B:1695:G:C3'	1:B:2703:C:N3	2.84	0.41
1:B:1698:A:C2'	1:B:1699:G:H1'	2.42	0.41
1:B:1713:A:N9	1:B:1713:A:C2'	2.71	0.41
1:B:1718:G:C5'	1:B:1720:U:H6	2.34	0.41
1:B:1871:A:N3	1:B:2132:U:C5'	2.72	0.41
1:B:1931:U:C2	1:B:1931:U:C2'	3.03	0.41
1:B:2060:A:C2	1:B:2551:C:C1'	2.88	0.41
1:B:2061:G:N1	1:B:2552:U:C5'	2.73	0.41
1:B:2061:G:OP2	1:B:2557:G:C2	2.73	0.41
1:B:2500:U:O2	1:B:2500:U:C2'	2.69	0.41
1:B:2719:G:H5"	1:B:2720:U:H5	1.81	0.41
1:B:2780:G:H5'	1:B:2781:A:N7	2.36	0.41
1:B:2883:A:N6	1:B:2885:G:H2'	2.36	0.41
1:B:12:U:O2'	1:B:813:U:O2	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:A:C5	1:B:166:U:C5	3.09	0.40
1:B:308:G:H3'	1:B:309:A:H8	1.85	0.40
1:B:346:A:OP1	1:B:466:A:N1	2.54	0.40
1:B:377:G:OP1	1:B:403:U:H2'	2.21	0.40
1:B:446:G:OP2	1:B:470:A:O2'	2.39	0.40
1:B:450:G:N9	1:B:450:G:C2'	2.69	0.40
1:B:457:A:C3'	1:B:459:U:P	3.08	0.40
1:B:545:U:C2'	1:B:546:U:C5	3.02	0.40
1:B:556:A:O2'	1:B:557:C:H5	2.04	0.40
1:B:577:G:N2	1:B:2018:G:N9	2.69	0.40
1:B:670:A:H4'	1:B:671:C:C4'	2.51	0.40
1:B:764:A:N9	1:B:765:C:C5	2.89	0.40
1:B:859:G:C4'	1:B:860:U:H6	2.06	0.40
1:B:931:U:OP1	1:B:934:U:H6	2.04	0.40
1:B:1017:G:C5'	1:B:2754:U:C5	2.59	0.40
1:B:1030:C:N4	1:B:1126:A:H1'	2.33	0.40
1:B:1425:G:C2'	1:B:1567:G:C5'	2.97	0.40
1:B:1670:C:C2	1:B:1670:C:C2'	3.02	0.40
1:B:1744:A:C2'	1:B:1746:A:OP1	2.66	0.40
1:B:1761:C:H5'	1:B:1762:A:O2'	2.21	0.40
1:B:1791:A:O5'	1:B:1942:C:C6	2.74	0.40
1:B:1855:U:C6	1:B:1886:U:OP2	2.72	0.40
1:B:1855:U:N1	1:B:1884:G:C2'	2.84	0.40
1:B:1942:C:O4'	1:B:2442:C:H4'	2.19	0.40
1:B:2452:C:O2	1:B:2452:C:H2'	2.21	0.40
1:B:2455:G:C4	1:B:2665:A:O2'	2.74	0.40
1:B:2501:C:H6	1:B:2501:C:OP2	2.03	0.40
1:B:2657:A:C4	1:B:2665:A:C5	3.08	0.40
1:B:2851:A:C4	1:B:2868:A:C6	3.09	0.40
1:B:78:U:H4'	1:B:126:A:C5	2.57	0.40
1:B:83:A:C8	1:B:89:A:O2'	2.73	0.40
1:B:83:A:H2'	1:B:89:A:H4'	2.03	0.40
1:B:141:G:H8	1:B:1331:G:N3	2.19	0.40
1:B:199:A:N7	1:B:200:U:C6	2.87	0.40
1:B:219:A:C5'	1:B:257:C:P	3.07	0.40
1:B:318:C:H5"	1:B:319:G:O5'	2.21	0.40
1:B:530:G:H5"	1:B:948:C:O2'	2.20	0.40
1:B:577:G:C8	1:B:579:G:O4'	2.75	0.40
1:B:577:G:H8	1:B:579:G:C4'	2.33	0.40
1:B:585:G:O3'	1:B:1196:C:C5'	2.69	0.40
1:B:634:C:OP1	1:B:637:A:H2'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:819:A:C8	1:B:820:A:C1'	3.04	0.40
1:B:913:U:C4	1:B:917:A:C2'	3.02	0.40
1:B:990:A:O3'	1:B:991:C:H5"	2.22	0.40
1:B:1024:G:C5'	1:B:2467:C:C4'	2.98	0.40
1:B:1046:A:N9	1:B:1046:A:C2'	2.71	0.40
1:B:1077:A:N7	1:B:1078:U:C5	2.90	0.40
1:B:1175:A:N9	1:B:1175:A:C2'	2.70	0.40
1:B:1197:G:O2'	1:B:1256:G:C1'	2.58	0.40
1:B:1232:G:OP1	1:B:1236:G:C2'	2.67	0.40
1:B:1359:A:C5'	1:B:1360:G:OP2	2.65	0.40
1:B:1573:G:C3'	1:B:1631:G:H1'	2.51	0.40
1:B:1608:A:N9	1:B:1608:A:C2'	2.69	0.40
1:B:1626:A:O2'	1:B:1627:G:P	2.79	0.40
1:B:1678:A:OP1	1:B:1683:U:OP1	2.38	0.40
1:B:1680:U:C2'	1:B:1680:U:O2	2.70	0.40
1:B:1693:U:C4	1:B:2705:A:N1	2.89	0.40
1:B:1695:G:C8	1:B:2704:C:C2	3.09	0.40
1:B:1720:U:O3'	1:B:1722:A:C5'	2.67	0.40
1:B:1722:A:N9	1:B:1722:A:C2'	2.70	0.40
1:B:1838:C:H41	1:B:1927:A:H2	1.67	0.40
1:B:1847:A:C5	1:B:1889:A:C8	3.09	0.40
1:B:1866:A:C4'	1:B:1867:G:OP1	2.69	0.40
1:B:2113:U:C6	1:B:2113:U:C2'	3.04	0.40
1:B:2281:A:C5'	1:B:2282:G:H5'	2.52	0.40
1:B:2440:C:O2	1:B:2440:C:C2'	2.65	0.40
1:B:2467:C:O2	1:B:2467:C:C2'	2.66	0.40
1:B:2585:U:N1	1:B:2585:U:C2'	2.70	0.40
1:B:2598:A:H2'	1:B:2599:G:C4'	2.51	0.40
1:B:2637:U:H5"	1:B:2640:G:P	2.60	0.40
1:B:2786:U:HO2'	1:B:2813:A:H4'	1.74	0.40
1:B:2846:G:C4'	1:B:2848:G:H1'	2.50	0.40
1:B:181:A:OP1	1:B:194:G:O6	2.40	0.40
1:B:266:G:OP1	1:B:368:A:C5'	2.69	0.40
1:B:271:G:O2'	1:B:2156:G:N7	2.54	0.40
1:B:300:A:O3'	1:B:301:G:H5'	2.21	0.40
1:B:338:G:C1'	1:B:338:G:C8	2.82	0.40
1:B:449:A:H4'	1:B:452:G:N9	2.34	0.40
1:B:451:U:C6	1:B:461:C:OP1	2.74	0.40
1:B:464:U:N1	1:B:464:U:C2'	2.70	0.40
1:B:477:A:C3'	1:B:478:A:P	3.09	0.40
1:B:477:A:C4	1:B:478:A:OP1	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:A:N1	1:B:988:A:N6	2.69	0.40
1:B:573:U:C4'	1:B:2044:C:OP2	2.70	0.40
1:B:931:U:C5'	1:B:934:U:C5	3.04	0.40
1:B:1016:G:H5"	1:B:2753:A:H8	1.83	0.40
1:B:1115:G:H3'	1:B:2750:A:P	2.62	0.40
1:B:1275:A:N6	1:B:1276:A:N6	2.69	0.40
1:B:1321:A:H5'	1:B:1323:C:O3'	2.21	0.40
1:B:1545:A:N9	1:B:1545:A:C2'	2.69	0.40
1:B:1582:C:N1	1:B:1633:G:H3'	2.36	0.40
1:B:1609:A:OP1	1:B:1621:U:H5"	2.21	0.40
1:B:1677:A:OP1	1:B:1685:C:OP2	2.39	0.40
1:B:1847:A:O4'	1:B:1849:G:P	2.80	0.40
1:B:1854:A:N7	1:B:1858:A:C5'	2.84	0.40
1:B:1934:C:HO5'	1:B:1935:G:H5"	1.85	0.40
1:B:2027:G:O5'	1:B:2029:G:OP1	2.39	0.40
1:B:2482:A:C8	1:B:2483:C:N4	2.90	0.40
1:B:2667:C:O2'	1:B:2668:G:C4'	2.68	0.40
1:B:2719:G:OP1	1:B:2721:A:C5	2.74	0.40
1:B:2779:U:H3'	1:B:2781:A:C1'	2.52	0.40
1:B:2834:G:OP2	1:B:2835:A:H5"	2.22	0.40
1:B:2849:U:C3'	1:B:2850:A:C5'	3.00	0.40
1:B:22:C:P	1:B:511:U:O3'	2.79	0.40
1:B:28:A:C2	1:B:674:G:C4'	3.05	0.40
1:B:77:G:H5"	1:B:99:U:C5	2.40	0.40
1:B:89:A:O3'	1:B:91:A:C4	2.74	0.40
1:B:124:G:C2'	1:B:125:A:C5'	2.88	0.40
1:B:157:C:C4	1:B:158:U:C4	3.09	0.40
1:B:221:A:C8	1:B:222:A:O2'	2.73	0.40
1:B:270:A:N9	1:B:270:A:C2'	2.71	0.40
1:B:270:A:N6	1:B:2134:A:OP1	2.54	0.40
1:B:279:A:N9	1:B:279:A:C2'	2.69	0.40
1:B:344:A:C5'	1:B:345:A:OP2	2.69	0.40
1:B:366:C:H4'	1:B:367:G:OP2	2.21	0.40
1:B:464:U:O4	1:B:466:A:C5	2.74	0.40
1:B:500:G:C2'	1:B:505:A:HO2'	2.18	0.40
1:B:514:A:H5"	1:B:669:G:H2'	1.93	0.40
1:B:845:A:H3'	1:B:931:U:N3	2.33	0.40
1:B:906:U:O5'	1:B:907:G:H5'	2.22	0.40
1:B:984:A:C8	1:B:985:C:C5	3.09	0.40
1:B:1023:U:C4	1:B:2484:G:N7	2.90	0.40
1:B:1047:G:O2'	1:B:1102:C:P	2.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1090:A:C2	1:B:1091:G:C8	3.09	0.40
1:B:1438:U:H2'	1:B:1439:A:C5'	2.50	0.40
1:B:1453:A:H3'	1:B:1526:C:H5'	2.02	0.40
1:B:1463:C:N4	1:B:1544:A:C2'	2.84	0.40
1:B:1480:C:C3'	1:B:1481:U:P	3.09	0.40
1:B:1521:G:N7	1:B:1522:A:C4	2.89	0.40
1:B:1522:A:OP1	1:B:1529:G:C5'	2.69	0.40
1:B:1564:C:C2'	1:B:1565:C:H5'	2.50	0.40
1:B:1668:A:N9	1:B:1668:A:C2'	2.71	0.40
1:B:1670:C:C2'	1:B:1753:G:C1'	2.99	0.40
1:B:1672:A:C8	1:B:1673:G:C2'	3.02	0.40
1:B:1672:A:O2'	1:B:1673:G:P	2.80	0.40
1:B:1856:U:O4	1:B:1885:A:H5'	2.19	0.40
1:B:1883:U:HO2'	1:B:1884:G:C1'	2.35	0.40
1:B:1941:C:O2'	1:B:1942:C:P	2.80	0.40
1:B:1971:U:C4'	1:B:1971:U:H5"	2.27	0.40
1:B:2135:A:O2'	1:B:2136:G:O5'	2.30	0.40
1:B:2319:G:H2'	1:B:2322:A:C8	2.56	0.40
1:B:2371:G:H1	1:B:2375:G:H1'	1.85	0.40
1:B:2471:A:H3'	1:B:2472:G:H3'	2.03	0.40
1:B:2482:A:O3'	1:B:2484:G:OP2	2.40	0.40
1:B:2638:G:N2	1:B:2732:G:O2'	2.55	0.40
1:B:2753:A:H5'	1:B:2754:U:C4'	2.37	0.40
1:B:2826:A:N9	1:B:2826:A:C2'	2.69	0.40
1:B:2844:G:OP1	1:B:2844:G:C2	2.74	0.40
1:B:2879:A:C8	1:B:2881:U:O4	2.72	0.40
1:B:13:A:H2'	1:B:584:C:N4	2.35	0.40
1:B:28:A:C5	1:B:674:G:P	3.15	0.40
1:B:92:U:C1'	1:B:498:G:C2	3.03	0.40
1:B:125:A:C2'	1:B:126:A:OP2	2.69	0.40
1:B:137:U:H5	1:B:138:U:C6	2.39	0.40
1:B:159:G:C8	1:B:160:A:C8	3.10	0.40
1:B:164:C:C4	1:B:165:A:N7	2.90	0.40
1:B:221:A:H2'	1:B:222:A:H3'	0.56	0.40
1:B:223:A:C5'	1:B:224:U:H5'	2.51	0.40
1:B:267:C:O2	1:B:269:C:C6	2.75	0.40
1:B:275:C:C6	1:B:275:C:OP1	2.74	0.40
1:B:405:U:O2	1:B:405:U:C2'	2.65	0.40
1:B:466:A:N9	1:B:466:A:C2'	2.69	0.40
1:B:477:A:N9	1:B:477:A:C2'	2.69	0.40
1:B:486:C:O2'	1:B:505:A:H4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:538:A:C2	1:B:539:G:C6	3.09	0.40
1:B:830:G:H2'	1:B:2622:U:OP1	2.22	0.40
1:B:1016:G:OP1	1:B:2753:A:N9	2.55	0.40
1:B:1022:G:H8	1:B:2463:C:OP2	2.04	0.40
1:B:1032:A:C6	1:B:1126:A:C2	3.10	0.40
1:B:1308:A:O2'	1:B:1309:G:H5'	2.22	0.40
1:B:1412:U:O4	1:B:1585:C:C2'	2.69	0.40
1:B:1439:A:C2'	1:B:1440:U:OP2	2.69	0.40
1:B:1454:C:H5	1:B:1525:A:OP2	2.02	0.40
1:B:1625:C:H4'	1:B:1643:G:H5"	2.03	0.40
1:B:1646:C:N1	1:B:1646:C:C2'	2.71	0.40
1:B:1750:G:O3'	1:B:1753:G:OP2	2.39	0.40
1:B:1818:U:OP2	1:B:1820:U:H5	1.96	0.40
1:B:1846:G:P	1:B:2232:C:HO2'	2.45	0.40
1:B:1846:G:C5'	1:B:1847:A:OP2	2.69	0.40
1:B:1852:U:P	1:B:1856:U:N3	2.94	0.40
1:B:1988:G:C3'	1:B:1989:G:OP2	2.57	0.40
1:B:2060:A:O3'	1:B:2446:G:P	2.80	0.40
1:B:2110:G:O4'	1:B:2119:A:C5	2.74	0.40
1:B:2265:U:H2'	1:B:2267:A:C5'	2.52	0.40
1:B:2453:A:C4'	1:B:2453:A:H5"	2.22	0.40
1:B:2471:A:C3'	1:B:2472:G:H3'	2.51	0.40
1:B:2789:C:N3	1:B:2890:G:H5'	2.37	0.40
1:B:2810:A:H5'	1:B:2811:G:N7	2.28	0.40

There are no symmetry-related clashes.

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	B	2903/2904 (99%)	1526 (52%)	1147 (39%)

All (1526) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	B	9	G
1	B	10	A
1	B	11	C
1	B	12	U
1	B	13	A
1	B	14	A
1	B	15	G
1	B	16	C
1	B	26	G
1	B	27	G
1	B	28	A
1	B	29	U
1	B	33	C
1	B	34	U
1	B	35	G
1	B	46	G
1	B	47	C
1	B	48	G
1	B	49	A
1	B	50	U
1	B	51	G
1	B	52	A
1	B	53	A
1	B	54	G
1	B	60	G
1	B	61	C
1	B	62	U
1	B	63	A
1	B	64	A
1	B	65	U
1	B	68	G
1	B	71	A
1	B	72	U
1	B	73	A
1	B	74	A
1	B	75	G
1	B	76	C
1	B	83	A

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Mol	Chain	Res	Type
1	B	84	A
1	B	85	G
1	B	88	G
1	B	90	U
1	B	91	A
1	B	92	U
1	B	93	G
1	B	94	A
1	B	95	A
1	B	98	G
1	B	99	U
1	B	100	U
1	B	101	A
1	B	102	U
1	B	103	A
1	B	104	A
1	B	111	A
1	B	112	U
1	B	113	U
1	B	114	U
1	B	117	G
1	B	118	A
1	B	119	A
1	B	120	U
1	B	121	G
1	B	124	G
1	B	125	A
1	B	126	A
1	B	127	A
1	B	128	C
1	B	131	A
1	B	138	U
1	B	139	U
1	B	140	C
1	B	141	G
1	B	142	A
1	B	149	A
1	B	150	U
1	B	160	A
1	B	161	A
1	B	162	U
1	B	163	C

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Mol	Chain	Res	Type
1	B	164	C
1	B	165	A
1	B	166	U
1	B	168	G
1	B	169	G
1	B	177	G
1	B	178	G
1	B	179	C
1	B	180	G
1	B	181	A
1	B	182	A
1	B	183	C
1	B	184	C
1	B	189	G
1	B	190	A
1	B	191	A
1	B	196	A
1	B	197	A
1	B	199	A
1	B	200	U
1	B	202	U
1	B	203	A
1	B	204	A
1	B	207	A
1	B	208	C
1	B	213	A
1	B	214	G
1	B	215	G
1	B	216	A
1	B	217	A
1	B	218	A
1	B	219	A
1	B	220	G
1	B	221	A
1	B	222	A
1	B	223	A
1	B	224	U
1	B	226	A
1	B	227	A
1	B	228	C
1	B	229	C
1	B	232	G

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Mol	Chain	Res	Type
1	B	233	A
1	B	234	U
1	B	240	C
1	B	241	A
1	B	242	G
1	B	243	U
1	B	244	A
1	B	245	G
1	B	247	G
1	B	248	G
1	B	249	C
1	B	250	G
1	B	251	A
1	B	254	G
1	B	255	A
1	B	256	A
1	B	257	C
1	B	258	G
1	B	263	G
1	B	264	C
1	B	265	A
1	B	269	C
1	B	270	A
1	B	271	G
1	B	275	C
1	B	276	U
1	B	277	G
1	B	278	A
1	B	279	A
1	B	280	U
1	B	281	C
1	B	294	A
1	B	295	G
1	B	298	G
1	B	299	A
1	B	300	A
1	B	301	G
1	B	307	G
1	B	308	G
1	B	309	A
1	B	310	A
1	B	311	A

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Mol	Chain	Res	Type
1	B	317	G
1	B	319	G
1	B	320	A
1	B	321	U
1	B	322	A
1	B	323	C
1	B	324	A
1	B	325	G
1	B	328	U
1	B	329	G
1	B	330	A
1	B	331	C
1	B	332	A
1	B	333	G
1	B	335	C
1	B	338	G
1	B	339	U
1	B	340	A
1	B	341	C
1	B	344	A
1	B	345	A
1	B	346	A
1	B	347	A
1	B	360	U
1	B	361	G
1	B	362	A
1	B	363	G
1	B	367	G
1	B	368	A
1	B	369	U
1	B	370	G
1	B	371	A
1	B	372	G
1	B	373	U
1	B	374	A
1	B	383	C
1	B	384	A
1	B	385	C
1	B	386	G
1	B	387	U
1	B	388	G
1	B	389	G

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Mol	Chain	Res	Type
1	B	391	A
1	B	392	U
1	B	400	G
1	B	401	A
1	B	402	A
1	B	403	U
1	B	404	A
1	B	405	U
1	B	406	G
1	B	411	G
1	B	412	A
1	B	413	C
1	B	417	C
1	B	422	A
1	B	423	A
1	B	424	G
1	B	428	A
1	B	429	A
1	B	430	A
1	B	431	U
1	B	432	A
1	B	433	C
1	B	435	C
1	B	436	C
1	B	443	A
1	B	444	C
1	B	446	G
1	B	447	A
1	B	448	U
1	B	449	A
1	B	450	G
1	B	451	U
1	B	452	G
1	B	453	A
1	B	454	A
1	B	455	C
1	B	456	C
1	B	457	A
1	B	458	G
1	B	459	U
1	B	460	A
1	B	461	C

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Mol	Chain	Res	Type
1	B	463	G
1	B	464	U
1	B	465	G
1	B	466	A
1	B	467	G
1	B	469	G
1	B	470	A
1	B	471	A
1	B	472	A
1	B	473	G
1	B	477	A
1	B	478	A
1	B	479	A
1	B	480	A
1	B	481	G
1	B	482	A
1	B	483	A
1	B	484	C
1	B	488	G
1	B	489	G
1	B	490	C
1	B	491	G
1	B	492	A
1	B	493	G
1	B	497	A
1	B	498	G
1	B	499	U
1	B	500	G
1	B	501	A
1	B	502	A
1	B	503	A
1	B	504	A
1	B	505	A
1	B	506	G
1	B	507	A
1	B	508	A
1	B	509	C
1	B	510	C
1	B	511	U
1	B	512	G
1	B	513	A
1	B	514	A

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Mol	Chain	Res	Type
1	B	515	A
1	B	525	U
1	B	526	A
1	B	527	C
1	B	528	A
1	B	529	A
1	B	530	G
1	B	531	C
1	B	532	A
1	B	533	G
1	B	537	G
1	B	538	A
1	B	545	U
1	B	546	U
1	B	547	A
1	B	548	G
1	B	549	G
1	B	555	G
1	B	556	A
1	B	557	C
1	B	561	G
1	B	562	U
1	B	563	A
1	B	564	C
1	B	565	C
1	B	566	U
1	B	567	U
1	B	568	U
1	B	569	U
1	B	570	G
1	B	571	U
1	B	572	A
1	B	573	U
1	B	574	A
1	B	575	A
1	B	576	U
1	B	577	G
1	B	578	G
1	B	579	G
1	B	585	G
1	B	586	A
1	B	587	C

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Mol	Chain	Res	Type
1	B	588	U
1	B	589	U
1	B	602	A
1	B	603	A
1	B	604	G
1	B	608	A
1	B	609	A
1	B	610	C
1	B	612	G
1	B	613	A
1	B	614	A
1	B	615	U
1	B	616	A
1	B	617	G
1	B	619	G
1	B	620	G
1	B	621	A
1	B	625	G
1	B	626	A
1	B	627	A
1	B	628	G
1	B	630	G
1	B	631	A
1	B	632	A
1	B	633	A
1	B	634	C
1	B	636	G
1	B	637	A
1	B	638	G
1	B	642	U
1	B	643	A
1	B	644	A
1	B	645	C
1	B	646	U
1	B	647	G
1	B	651	G
1	B	652	U
1	B	653	U
1	B	654	A
1	B	655	A
1	B	656	G
1	B	669	G

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Mol	Chain	Res	Type
1	B	670	A
1	B	671	C
1	B	673	C
1	B	674	G
1	B	675	A
1	B	676	A
1	B	677	A
1	B	678	C
1	B	684	G
1	B	685	A
1	B	686	U
1	B	687	C
1	B	699	A
1	B	700	G
1	B	704	G
1	B	705	A
1	B	706	A
1	B	707	G
1	B	713	G
1	B	714	U
1	B	715	A
1	B	716	A
1	B	717	C
1	B	718	A
1	B	725	G
1	B	726	G
1	B	727	A
1	B	728	G
1	B	729	G
1	B	733	G
1	B	734	A
1	B	735	A
1	B	736	C
1	B	739	A
1	B	740	C
1	B	745	7MG
1	B	746	PSU
1	B	747	5MU
1	B	748	G
1	B	749	A
1	B	750	A
1	B	751	A

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Mol	Chain	Res	Type
1	B	752	A
1	B	761	A
1	B	762	U
1	B	763	G
1	B	764	A
1	B	765	C
1	B	776	G
1	B	777	G
1	B	779	U
1	B	780	G
1	B	781	A
1	B	782	A
1	B	783	A
1	B	784	G
1	B	785	G
1	B	786	C
1	B	788	A
1	B	789	A
1	B	790	U
1	B	791	C
1	B	792	A
1	B	793	A
1	B	794	A
1	B	800	A
1	B	801	G
1	B	802	A
1	B	803	U
1	B	804	A
1	B	805	G
1	B	806	C
1	B	807	U
1	B	808	G
1	B	810	U
1	B	811	U
1	B	812	C
1	B	818	G
1	B	819	A
1	B	820	A
1	B	821	A
1	B	822	G
1	B	827	U
1	B	828	U

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Mol	Chain	Res	Type
1	B	829	A
1	B	830	G
1	B	836	G
1	B	837	C
1	B	838	C
1	B	845	A
1	B	846	U
1	B	847	U
1	B	848	C
1	B	851	C
1	B	857	G
1	B	858	G
1	B	859	G
1	B	860	U
1	B	861	A
1	B	862	G
1	B	863	A
1	B	864	G
1	B	865	C
1	B	866	A
1	B	867	C
1	B	868	U
1	B	871	U
1	B	872	U
1	B	876	C
1	B	877	A
1	B	878	A
1	B	879	G
1	B	886	A
1	B	887	U
1	B	888	C
1	B	889	C
1	B	890	C
1	B	891	G
1	B	896	A
1	B	897	C
1	B	899	A
1	B	900	A
1	B	901	C
1	B	902	C
1	B	906	U
1	B	907	G

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Mol	Chain	Res	Type
1	B	910	A
1	B	911	A
1	B	912	C
1	B	913	U
1	B	914	G
1	B	915	C
1	B	916	G
1	B	917	A
1	B	918	A
1	B	919	U
1	B	920	A
1	B	921	C
1	B	927	A
1	B	928	A
1	B	931	U
1	B	932	U
1	B	933	A
1	B	941	A
1	B	942	G
1	B	943	A
1	B	944	C
1	B	945	A
1	B	946	C
1	B	956	G
1	B	957	C
1	B	958	U
1	B	959	A
1	B	960	A
1	B	961	C
1	B	962	G
1	B	972	A
1	B	973	A
1	B	974	G
1	B	975	A
1	B	976	G
1	B	979	A
1	B	980	A
1	B	981	A
1	B	982	C
1	B	983	A
1	B	984	A
1	B	985	C

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Mol	Chain	Res	Type
1	B	988	A
1	B	989	G
1	B	990	A
1	B	991	C
1	B	995	C
1	B	996	A
1	B	1000	A
1	B	1001	A
1	B	1002	G
1	B	1005	C
1	B	1007	C
1	B	1008	A
1	B	1009	A
1	B	1010	A
1	B	1011	G
1	B	1012	U
1	B	1013	C
1	B	1020	A
1	B	1021	A
1	B	1022	G
1	B	1023	U
1	B	1024	G
1	B	1025	G
1	B	1026	G
1	B	1027	A
1	B	1028	A
1	B	1029	A
1	B	1032	A
1	B	1033	U
1	B	1034	G
1	B	1039	A
1	B	1040	A
1	B	1041	G
1	B	1044	C
1	B	1045	C
1	B	1046	A
1	B	1047	G
1	B	1048	A
1	B	1049	C
1	B	1050	A
1	B	1051	G
1	B	1056	G

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Mol	Chain	Res	Type
1	B	1057	A
1	B	1063	G
1	B	1066	U
1	B	1069	A
1	B	1070	A
1	B	1071	G
1	B	1072	C
1	B	1074	G
1	B	1075	C
1	B	1077	A
1	B	1081	U
1	B	1088	A
1	B	1090	A
1	B	1095	A
1	B	1099	G
1	B	1103	A
1	B	1104	C
1	B	1109	C
1	B	1110	G
1	B	1111	A
1	B	1112	G
1	B	1115	G
1	B	1116	G
1	B	1117	C
1	B	1122	G
1	B	1123	C
1	B	1125	G
1	B	1126	A
1	B	1127	A
1	B	1128	G
1	B	1129	A
1	B	1130	U
1	B	1131	G
1	B	1132	U
1	B	1133	A
1	B	1134	A
1	B	1135	C
1	B	1136	G
1	B	1137	G
1	B	1139	G
1	B	1140	C
1	B	1141	U

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Mol	Chain	Res	Type
1	B	1142	A
1	B	1143	A
1	B	1150	C
1	B	1151	A
1	B	1154	G
1	B	1155	A
1	B	1164	C
1	B	1173	U
1	B	1174	U
1	B	1175	A
1	B	1176	U
1	B	1177	G
1	B	1186	G
1	B	1187	G
1	B	1188	U
1	B	1189	A
1	B	1190	G
1	B	1196	C
1	B	1197	G
1	B	1198	U
1	B	1203	U
1	B	1204	A
1	B	1205	A
1	B	1206	G
1	B	1210	G
1	B	1211	C
1	B	1212	G
1	B	1213	A
1	B	1214	A
1	B	1215	G
1	B	1223	G
1	B	1224	U
1	B	1225	G
1	B	1226	A
1	B	1235	G
1	B	1236	G
1	B	1237	A
1	B	1241	A
1	B	1242	U
1	B	1243	C
1	B	1248	G
1	B	1249	U

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Mol	Chain	Res	Type
1	B	1250	G
1	B	1251	C
1	B	1252	G
1	B	1253	A
1	B	1254	A
1	B	1255	U
1	B	1256	G
1	B	1262	A
1	B	1263	U
1	B	1264	A
1	B	1265	A
1	B	1266	G
1	B	1267	U
1	B	1268	A
1	B	1271	G
1	B	1272	A
1	B	1273	U
1	B	1274	A
1	B	1275	A
1	B	1276	A
1	B	1282	U
1	B	1283	G
1	B	1284	A
1	B	1285	A
1	B	1286	A
1	B	1287	A
1	B	1288	G
1	B	1289	C
1	B	1299	G
1	B	1300	G
1	B	1301	A
1	B	1302	A
1	B	1303	G
1	B	1308	A
1	B	1309	G
1	B	1310	G
1	B	1311	G
1	B	1312	U
1	B	1313	U
1	B	1321	A
1	B	1322	A
1	B	1323	C

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Mol	Chain	Res	Type
1	B	1325	U
1	B	1326	U
1	B	1327	A
1	B	1328	A
1	B	1329	U
1	B	1330	C
1	B	1340	U
1	B	1341	G
1	B	1342	A
1	B	1343	G
1	B	1345	C
1	B	1348	C
1	B	1349	C
1	B	1352	U
1	B	1353	A
1	B	1354	A
1	B	1355	G
1	B	1358	G
1	B	1359	A
1	B	1360	G
1	B	1364	G
1	B	1365	A
1	B	1366	A
1	B	1367	A
1	B	1371	G
1	B	1372	U
1	B	1373	A
1	B	1374	G
1	B	1377	G
1	B	1378	A
1	B	1379	U
1	B	1380	G
1	B	1383	A
1	B	1384	A
1	B	1390	U
1	B	1391	U
1	B	1392	A
1	B	1393	A
1	B	1394	U
1	B	1395	A
1	B	1396	U
1	B	1397	U

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Mol	Chain	Res	Type
1	B	1398	C
1	B	1405	U
1	B	1416	G
1	B	1417	C
1	B	1418	G
1	B	1419	A
1	B	1425	G
1	B	1426	G
1	B	1427	A
1	B	1428	C
1	B	1429	G
1	B	1433	A
1	B	1434	A
1	B	1435	G
1	B	1438	U
1	B	1439	A
1	B	1440	U
1	B	1445	G
1	B	1446	C
1	B	1451	C
1	B	1452	G
1	B	1453	A
1	B	1454	C
1	B	1455	G
1	B	1456	G
1	B	1457	U
1	B	1458	U
1	B	1459	G
1	B	1460	U
1	B	1461	C
1	B	1466	U
1	B	1467	U
1	B	1468	U
1	B	1469	A
1	B	1470	A
1	B	1471	G
1	B	1475	G
1	B	1476	U
1	B	1477	A
1	B	1478	G
1	B	1481	U
1	B	1490	A

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Mol	Chain	Res	Type
1	B	1491	G
1	B	1493	C
1	B	1494	A
1	B	1495	A
1	B	1496	A
1	B	1497	U
1	B	1498	C
1	B	1509	A
1	B	1510	G
1	B	1511	G
1	B	1514	G
1	B	1515	A
1	B	1516	G
1	B	1517	G
1	B	1521	G
1	B	1522	A
1	B	1523	U
1	B	1524	G
1	B	1525	A
1	B	1526	C
1	B	1527	G
1	B	1528	A
1	B	1529	G
1	B	1534	U
1	B	1535	A
1	B	1536	C
1	B	1537	G
1	B	1543	G
1	B	1544	A
1	B	1545	A
1	B	1546	G
1	B	1547	C
1	B	1552	A
1	B	1553	A
1	B	1554	U
1	B	1555	G
1	B	1558	C
1	B	1559	U
1	B	1560	G
1	B	1561	C
1	B	1565	C
1	B	1566	A

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Mol	Chain	Res	Type
1	B	1567	G
1	B	1568	G
1	B	1569	A
1	B	1570	A
1	B	1571	A
1	B	1572	A
1	B	1573	G
1	B	1574	C
1	B	1579	A
1	B	1580	A
1	B	1581	G
1	B	1582	C
1	B	1583	A
1	B	1584	U
1	B	1585	C
1	B	1586	A
1	B	1587	G
1	B	1598	A
1	B	1599	U
1	B	1602	U
1	B	1603	A
1	B	1604	C
1	B	1605	C
1	B	1606	C
1	B	1607	C
1	B	1608	A
1	B	1609	A
1	B	1610	A
1	B	1611	C
1	B	1613	G
1	B	1614	A
1	B	1615	C
1	B	1616	A
1	B	1617	C
1	B	1618	1MA
1	B	1619	G
1	B	1626	A
1	B	1627	G
1	B	1631	G
1	B	1632	A
1	B	1633	G
1	B	1634	A

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Mol	Chain	Res	Type
1	B	1635	A
1	B	1640	A
1	B	1641	A
1	B	1642	G
1	B	1646	C
1	B	1647	U
1	B	1648	U
1	B	1652	A
1	B	1653	G
1	B	1654	A
1	B	1655	A
1	B	1656	C
1	B	1664	A
1	B	1665	A
1	B	1668	A
1	B	1669	A
1	B	1670	C
1	B	1671	U
1	B	1672	A
1	B	1673	G
1	B	1674	G
1	B	1675	C
1	B	1676	A
1	B	1677	A
1	B	1678	A
1	B	1679	A
1	B	1680	U
1	B	1681	G
1	B	1687	G
1	B	1688	U
1	B	1689	A
1	B	1690	A
1	B	1691	C
1	B	1692	U
1	B	1693	U
1	B	1694	C
1	B	1696	G
1	B	1697	G
1	B	1698	A
1	B	1699	G
1	B	1700	A
1	B	1701	A

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Mol	Chain	Res	Type
1	B	1702	G
1	B	1713	A
1	B	1714	U
1	B	1715	G
1	B	1716	U
1	B	1719	G
1	B	1720	U
1	B	1721	G
1	B	1722	A
1	B	1723	G
1	B	1724	G
1	B	1728	C
1	B	1729	U
1	B	1730	C
1	B	1731	G
1	B	1732	C
1	B	1737	G
1	B	1738	G
1	B	1739	A
1	B	1740	G
1	B	1741	C
1	B	1744	A
1	B	1745	A
1	B	1746	A
1	B	1752	C
1	B	1753	G
1	B	1754	A
1	B	1755	A
1	B	1756	G
1	B	1757	A
1	B	1758	U
1	B	1759	A
1	B	1760	C
1	B	1761	C
1	B	1762	A
1	B	1763	G
1	B	1764	C
1	B	1773	A
1	B	1774	C
1	B	1775	U
1	B	1780	A
1	B	1781	U

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Mol	Chain	Res	Type
1	B	1782	U
1	B	1783	A
1	B	1784	A
1	B	1785	A
1	B	1790	C
1	B	1791	A
1	B	1792	G
1	B	1800	C
1	B	1801	A
1	B	1802	A
1	B	1803	A
1	B	1804	C
1	B	1807	G
1	B	1808	A
1	B	1809	A
1	B	1810	A
1	B	1814	G
1	B	1815	A
1	B	1816	C
1	B	1817	G
1	B	1818	U
1	B	1819	A
1	B	1820	U
1	B	1828	G
1	B	1829	A
1	B	1834	U
1	B	1835	G
1	B	1838	C
1	B	1839	G
1	B	1840	G
1	B	1847	A
1	B	1848	A
1	B	1849	G
1	B	1851	U
1	B	1852	U
1	B	1853	A
1	B	1854	A
1	B	1855	U
1	B	1856	U
1	B	1857	G
1	B	1858	A
1	B	1859	U

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Mol	Chain	Res	Type
1	B	1860	G
1	B	1866	A
1	B	1867	G
1	B	1869	G
1	B	1870	C
1	B	1871	A
1	B	1872	A
1	B	1873	G
1	B	1875	G
1	B	1876	A
1	B	1877	A
1	B	1883	U
1	B	1884	G
1	B	1885	A
1	B	1886	U
1	B	1887	C
1	B	1888	G
1	B	1889	A
1	B	1890	A
1	B	1891	G
1	B	1892	C
1	B	1899	A
1	B	1900	A
1	B	1901	A
1	B	1906	G
1	B	1912	A
1	B	1913	A
1	B	1914	C
1	B	1915	5MU
1	B	1916	A
1	B	1917	PSU
1	B	1918	A
1	B	1925	C
1	B	1926	U
1	B	1927	A
1	B	1928	A
1	B	1929	G
1	B	1930	G
1	B	1931	U
1	B	1932	A
1	B	1933	G
1	B	1934	C

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Mol	Chain	Res	Type
1	B	1935	G
1	B	1936	A
1	B	1937	A
1	B	1938	A
1	B	1939	5MU
1	B	1940	U
1	B	1941	C
1	B	1942	C
1	B	1943	U
1	B	1944	U
1	B	1945	G
1	B	1951	U
1	B	1952	A
1	B	1953	A
1	B	1954	G
1	B	1955	U
1	B	1956	U
1	B	1962	C
1	B	1963	U
1	B	1964	G
1	B	1965	C
1	B	1966	A
1	B	1967	C
1	B	1968	G
1	B	1969	A
1	B	1970	A
1	B	1971	U
1	B	1972	G
1	B	1977	A
1	B	1978	A
1	B	1979	U
1	B	1981	A
1	B	1989	G
1	B	1990	C
1	B	1991	U
1	B	1992	G
1	B	1993	U
1	B	1996	C
1	B	1997	C
1	B	2005	A
1	B	2006	C
1	B	2012	G

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Mol	Chain	Res	Type
1	B	2013	A
1	B	2014	A
1	B	2015	A
1	B	2016	U
1	B	2017	U
1	B	2018	G
1	B	2019	A
1	B	2020	A
1	B	2021	C
1	B	2022	U
1	B	2023	C
1	B	2028	U
1	B	2029	G
1	B	2030	1MA
1	B	2031	A
1	B	2032	G
1	B	2033	A
1	B	2034	U
1	B	2035	G
1	B	2041	U
1	B	2042	A
1	B	2043	C
1	B	2051	A
1	B	2052	A
1	B	2055	C
1	B	2056	G
1	B	2058	A
1	B	2059	A
1	B	2060	A
1	B	2061	G
1	B	2062	A
1	B	2063	C
1	B	2068	U
1	B	2069	7MG
1	B	2076	U
1	B	2077	A
1	B	2082	A
1	B	2083	G
1	B	2086	U
1	B	2087	G
1	B	2093	G
1	B	2104	C

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Mol	Chain	Res	Type
1	B	2105	U
1	B	2109	U
1	B	2110	G
1	B	2111	U
1	B	2112	G
1	B	2113	U
1	B	2114	A
1	B	2115	G
1	B	2116	G
1	B	2117	A
1	B	2118	U
1	B	2119	A
1	B	2120	G
1	B	2125	G
1	B	2126	A
1	B	2127	G
1	B	2130	U
1	B	2131	U
1	B	2132	U
1	B	2133	G
1	B	2134	A
1	B	2135	A
1	B	2136	G
1	B	2144	G
1	B	2145	C
1	B	2146	C
1	B	2147	A
1	B	2148	G
1	B	2156	G
1	B	2157	G
1	B	2158	A
1	B	2159	G
1	B	2162	G
1	B	2163	A
1	B	2164	C
1	B	2165	C
1	B	2166	U
1	B	2167	U
1	B	2168	G
1	B	2169	A
1	B	2170	A
1	B	2171	A

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Mol	Chain	Res	Type
1	B	2172	U
1	B	2173	A
1	B	2179	C
1	B	2180	U
1	B	2181	U
1	B	2185	U
1	B	2186	G
1	B	2197	U
1	B	2198	A
1	B	2199	A
1	B	2200	C
1	B	2203	U
1	B	2204	G
1	B	2210	U
1	B	2211	A
1	B	2212	A
1	B	2213	U
1	B	2214	C
1	B	2215	C
1	B	2224	G
1	B	2226	C
1	B	2227	A
1	B	2233	U
1	B	2234	G
1	B	2237	G
1	B	2238	G
1	B	2239	G
1	B	2244	U
1	B	2245	U
1	B	2246	G
1	B	2251	7MG
1	B	2252	G
1	B	2253	G
1	B	2254	C
1	B	2259	U
1	B	2265	U
1	B	2266	A
1	B	2267	A
1	B	2268	A
1	B	2269	G
1	B	2270	A
1	B	2271	G

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Mol	Chain	Res	Type
1	B	2272	U
1	B	2273	A
1	B	2274	A
1	B	2275	C
1	B	2282	G
1	B	2283	C
1	B	2284	A
1	B	2286	G
1	B	2287	A
1	B	2288	A
1	B	2297	A
1	B	2298	A
1	B	2299	U
1	B	2305	U
1	B	2306	C
1	B	2307	G
1	B	2308	G
1	B	2309	A
1	B	2310	C
1	B	2311	A
1	B	2318	G
1	B	2319	G
1	B	2320	U
1	B	2321	U
1	B	2322	A
1	B	2323	G
1	B	2325	G
1	B	2326	C
1	B	2327	A
1	B	2328	A
1	B	2333	A
1	B	2334	U
1	B	2335	A
1	B	2336	A
1	B	2345	G
1	B	2346	A
1	B	2347	C
1	B	2351	G
1	B	2352	A
1	B	2356	U
1	B	2357	G
1	B	2358	A

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Mol	Chain	Res	Type
1	B	2359	C
1	B	2360	G
1	B	2361	G
1	B	2365	G
1	B	2366	A
1	B	2367	G
1	B	2371	G
1	B	2372	U
1	B	2375	G
1	B	2376	A
1	B	2377	A
1	B	2378	A
1	B	2379	G
1	B	2383	G
1	B	2385	C
1	B	2388	A
1	B	2389	G
1	B	2390	U
1	B	2391	G
1	B	2392	A
1	B	2393	U
1	B	2394	C
1	B	2395	C
1	B	2405	G
1	B	2406	A
1	B	2407	A
1	B	2411	A
1	B	2412	A
1	B	2422	C
1	B	2423	U
1	B	2424	C
1	B	2425	A
1	B	2426	A
1	B	2427	C
1	B	2428	G
1	B	2429	G
1	B	2430	A
1	B	2431	U
1	B	2432	A
1	B	2433	A
1	B	2434	A
1	B	2439	A

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Mol	Chain	Res	Type
1	B	2440	C
1	B	2441	U
1	B	2448	A
1	B	2449	5MU
1	B	2450	A
1	B	2451	A
1	B	2452	C
1	B	2453	A
1	B	2454	G
1	B	2455	G
1	B	2458	G
1	B	2467	C
1	B	2468	A
1	B	2469	A
1	B	2470	G
1	B	2472	G
1	B	2473	U
1	B	2474	U
1	B	2475	C
1	B	2476	A
1	B	2477	U
1	B	2478	A
1	B	2479	U
1	B	2481	G
1	B	2482	A
1	B	2483	C
1	B	2484	G
1	B	2493	U
1	B	2494	G
1	B	2497	A
1	B	2498	5MC
1	B	2499	C
1	B	2500	U
1	B	2501	C
1	B	2502	G
1	B	2503	A
1	B	2504	U
1	B	2505	G
1	B	2506	U
1	B	2518	A
1	B	2529	G
1	B	2530	A

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Mol	Chain	Res	Type
1	B	2531	A
1	B	2532	G
1	B	2533	U
1	B	2534	A
1	B	2542	A
1	B	2543	G
1	B	2552	U
1	B	2553	G
1	B	2554	U
1	B	2555	U
1	B	2556	C
1	B	2557	G
1	B	2562	U
1	B	2563	U
1	B	2564	A
1	B	2565	A
1	B	2566	A
1	B	2567	G
1	B	2572	A
1	B	2573	C
1	B	2574	G
1	B	2575	C
1	B	2576	G
1	B	2583	G
1	B	2584	U
1	B	2585	U
1	B	2586	U
1	B	2587	A
1	B	2588	G
1	B	2595	G
1	B	2596	U
1	B	2597	G
1	B	2598	A
1	B	2599	G
1	B	2602	A
1	B	2607	G
1	B	2608	G
1	B	2609	U
1	B	2610	C
1	B	2611	C
1	B	2613	U
1	B	2614	A

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Mol	Chain	Res	Type
1	B	2615	U
1	B	2626	C
1	B	2627	G
1	B	2628	C
1	B	2629	U
1	B	2630	G
1	B	2638	G
1	B	2639	A
1	B	2640	G
1	B	2644	G
1	B	2645	G
1	B	2653	U
1	B	2654	A
1	B	2655	G
1	B	2656	U
1	B	2660	A
1	B	2661	G
1	B	2662	A
1	B	2663	G
1	B	2668	G
1	B	2675	A
1	B	2676	C
1	B	2681	C
1	B	2682	A
1	B	2683	C
1	B	2684	U
1	B	2685	G
1	B	2686	G
1	B	2687	U
1	B	2688	G
1	B	2689	U
1	B	2690	U
1	B	2691	C
1	B	2702	G
1	B	2703	C
1	B	2704	C
1	B	2705	A
1	B	2706	A
1	B	2712	C
1	B	2713	U
1	B	2714	G
1	B	2719	G

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Mol	Chain	Res	Type
1	B	2720	U
1	B	2721	A
1	B	2722	G
1	B	2723	C
1	B	2724	U
1	B	2725	A
1	B	2726	A
1	B	2727	A
1	B	2732	G
1	B	2733	A
1	B	2734	A
1	B	2735	G
1	B	2738	A
1	B	2739	U
1	B	2740	A
1	B	2741	A
1	B	2742	G
1	B	2747	G
1	B	2748	A
1	B	2749	A
1	B	2750	A
1	B	2751	G
1	B	2752	C
1	B	2753	A
1	B	2754	U
1	B	2755	C
1	B	2756	U
1	B	2757	A
1	B	2758	A
1	B	2763	G
1	B	2764	A
1	B	2765	A
1	B	2766	A
1	B	2767	C
1	B	2770	G
1	B	2771	C
1	B	2775	G
1	B	2776	A
1	B	2777	G
1	B	2778	A
1	B	2779	U
1	B	2780	G

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Mol	Chain	Res	Type
1	B	2781	A
1	B	2789	C
1	B	2790	U
1	B	2797	U
1	B	2798	U
1	B	2799	A
1	B	2800	A
1	B	2806	C
1	B	2807	U
1	B	2808	G
1	B	2809	A
1	B	2810	A
1	B	2811	G
1	B	2820	A
1	B	2821	A
1	B	2822	G
1	B	2823	A
1	B	2824	C
1	B	2825	G
1	B	2826	A
1	B	2827	C
1	B	2834	G
1	B	2835	A
1	B	2836	U
1	B	2844	G
1	B	2845	U
1	B	2846	G
1	B	2847	U
1	B	2848	G
1	B	2849	U
1	B	2850	A
1	B	2851	A
1	B	2857	G
1	B	2858	C
1	B	2859	G
1	B	2860	A
1	B	2867	G
1	B	2868	A
1	B	2869	G
1	B	2870	C
1	B	2871	U
1	B	2872	A

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Mol	Chain	Res	Type
1	B	2873	A
1	B	2874	C
1	B	2879	A
1	B	2880	C
1	B	2883	A
1	B	2884	U
1	B	2885	G
1	B	2886	A
1	B	2887	A
1	B	2888	C
1	B	2890	G
1	B	2891	U
1	B	2892	G
1	B	2893	A
1	B	2894	G
1	B	2895	G
1	B	2903	U
1	B	2904	U

All (1147) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	B	9	G
1	B	10	A
1	B	11	C
1	B	12	U
1	B	13	A
1	B	14	A
1	B	15	G
1	B	25	U
1	B	26	G
1	B	27	G
1	B	33	C
1	B	34	U
1	B	45	G
1	B	46	G
1	B	47	C
1	B	48	G
1	B	49	A
1	B	50	U
1	B	51	G
1	B	53	A

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Mol	Chain	Res	Type
1	B	62	U
1	B	63	A
1	B	64	A
1	B	71	A
1	B	72	U
1	B	73	A
1	B	83	A
1	B	84	A
1	B	90	U
1	B	91	A
1	B	92	U
1	B	94	A
1	B	98	G
1	B	99	U
1	B	100	U
1	B	101	A
1	B	102	U
1	B	103	A
1	B	111	A
1	B	112	U
1	B	113	U
1	B	118	A
1	B	120	U
1	B	124	G
1	B	125	A
1	B	126	A
1	B	127	A
1	B	138	U
1	B	139	U
1	B	141	G
1	B	148	U
1	B	149	A
1	B	160	A
1	B	161	A
1	B	162	U
1	B	163	C
1	B	164	C
1	B	165	A
1	B	167	A
1	B	176	A
1	B	177	G
1	B	178	G

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Mol	Chain	Res	Type
1	B	179	C
1	B	180	G
1	B	181	A
1	B	190	A
1	B	196	A
1	B	199	A
1	B	201	C
1	B	203	A
1	B	212	G
1	B	213	A
1	B	214	G
1	B	215	G
1	B	216	A
1	B	217	A
1	B	218	A
1	B	219	A
1	B	220	G
1	B	221	A
1	B	222	A
1	B	223	A
1	B	225	C
1	B	226	A
1	B	227	A
1	B	228	C
1	B	232	G
1	B	240	C
1	B	242	G
1	B	243	U
1	B	244	A
1	B	247	G
1	B	248	G
1	B	249	C
1	B	250	G
1	B	251	A
1	B	254	G
1	B	255	A
1	B	256	A
1	B	257	C
1	B	262	A
1	B	263	G
1	B	264	C
1	B	268	C

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Mol	Chain	Res	Type
1	B	269	C
1	B	270	A
1	B	274	C
1	B	277	G
1	B	278	A
1	B	279	A
1	B	280	U
1	B	293	U
1	B	294	A
1	B	298	G
1	B	299	A
1	B	300	A
1	B	307	G
1	B	309	A
1	B	310	A
1	B	316	C
1	B	319	G
1	B	321	U
1	B	329	G
1	B	330	A
1	B	331	C
1	B	338	G
1	B	339	U
1	B	340	A
1	B	344	A
1	B	345	A
1	B	346	A
1	B	360	U
1	B	361	G
1	B	362	A
1	B	366	C
1	B	367	G
1	B	368	A
1	B	369	U
1	B	370	G
1	B	371	A
1	B	372	G
1	B	373	U
1	B	374	A
1	B	384	A
1	B	385	C
1	B	386	G

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Mol	Chain	Res	Type
1	B	387	U
1	B	388	G
1	B	389	G
1	B	391	A
1	B	399	U
1	B	400	G
1	B	401	A
1	B	403	U
1	B	404	A
1	B	405	U
1	B	411	G
1	B	412	A
1	B	422	A
1	B	423	A
1	B	428	A
1	B	431	U
1	B	432	A
1	B	434	U
1	B	443	A
1	B	445	C
1	B	446	G
1	B	447	A
1	B	448	U
1	B	449	A
1	B	450	G
1	B	451	U
1	B	452	G
1	B	453	A
1	B	454	A
1	B	455	C
1	B	456	C
1	B	457	A
1	B	458	G
1	B	459	U
1	B	460	A
1	B	463	G
1	B	464	U
1	B	465	G
1	B	466	A
1	B	468	G
1	B	469	G
1	B	470	A

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Mol	Chain	Res	Type
1	B	471	A
1	B	472	A
1	B	477	A
1	B	478	A
1	B	480	A
1	B	481	G
1	B	482	A
1	B	483	A
1	B	487	C
1	B	488	G
1	B	491	G
1	B	492	A
1	B	496	G
1	B	497	A
1	B	499	U
1	B	500	G
1	B	501	A
1	B	502	A
1	B	503	A
1	B	504	A
1	B	505	A
1	B	506	G
1	B	507	A
1	B	508	A
1	B	509	C
1	B	510	C
1	B	511	U
1	B	512	G
1	B	513	A
1	B	514	A
1	B	524	G
1	B	525	U
1	B	526	A
1	B	527	C
1	B	528	A
1	B	531	C
1	B	532	A
1	B	537	G
1	B	545	U
1	B	546	U
1	B	547	A
1	B	548	G

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Mol	Chain	Res	Type
1	B	555	G
1	B	561	G
1	B	562	U
1	B	563	A
1	B	564	C
1	B	565	C
1	B	567	U
1	B	568	U
1	B	569	U
1	B	570	G
1	B	571	U
1	B	572	A
1	B	573	U
1	B	574	A
1	B	575	A
1	B	576	U
1	B	577	G
1	B	578	G
1	B	585	G
1	B	586	A
1	B	587	C
1	B	602	A
1	B	603	A
1	B	608	A
1	B	609	A
1	B	612	G
1	B	613	A
1	B	614	A
1	B	615	U
1	B	616	A
1	B	619	G
1	B	620	G
1	B	625	G
1	B	626	A
1	B	627	A
1	B	630	G
1	B	631	A
1	B	632	A
1	B	633	A
1	B	636	G
1	B	642	U
1	B	643	A

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Mol	Chain	Res	Type
1	B	644	A
1	B	645	C
1	B	646	U
1	B	651	G
1	B	652	U
1	B	653	U
1	B	654	A
1	B	655	A
1	B	669	G
1	B	672	C
1	B	673	C
1	B	674	G
1	B	676	A
1	B	677	A
1	B	684	G
1	B	685	A
1	B	686	U
1	B	698	C
1	B	699	A
1	B	704	G
1	B	706	A
1	B	713	G
1	B	714	U
1	B	715	A
1	B	716	A
1	B	717	C
1	B	718	A
1	B	725	G
1	B	726	G
1	B	727	A
1	B	728	G
1	B	733	G
1	B	734	A
1	B	735	A
1	B	738	G
1	B	739	A
1	B	748	G
1	B	749	A
1	B	750	A
1	B	751	A
1	B	752	A
1	B	760	G

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Mol	Chain	Res	Type
1	B	761	A
1	B	764	A
1	B	775	G
1	B	776	G
1	B	779	U
1	B	780	G
1	B	781	A
1	B	782	A
1	B	783	A
1	B	784	G
1	B	785	G
1	B	788	A
1	B	789	A
1	B	790	U
1	B	792	A
1	B	800	A
1	B	801	G
1	B	802	A
1	B	803	U
1	B	804	A
1	B	806	C
1	B	807	U
1	B	810	U
1	B	811	U
1	B	819	A
1	B	820	A
1	B	821	A
1	B	827	U
1	B	828	U
1	B	829	A
1	B	830	G
1	B	835	C
1	B	836	G
1	B	837	C
1	B	845	A
1	B	846	U
1	B	847	U
1	B	857	G
1	B	858	G
1	B	859	G
1	B	862	G
1	B	863	A

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Mol	Chain	Res	Type
1	B	864	G
1	B	865	C
1	B	866	A
1	B	867	C
1	B	870	U
1	B	876	C
1	B	877	A
1	B	878	A
1	B	886	A
1	B	887	U
1	B	888	C
1	B	889	C
1	B	890	C
1	B	895	U
1	B	896	A
1	B	900	A
1	B	901	C
1	B	906	U
1	B	910	A
1	B	911	A
1	B	912	C
1	B	913	U
1	B	914	G
1	B	916	G
1	B	919	U
1	B	927	A
1	B	931	U
1	B	932	U
1	B	933	A
1	B	941	A
1	B	942	G
1	B	943	A
1	B	944	C
1	B	945	A
1	B	956	G
1	B	957	C
1	B	958	U
1	B	959	A
1	B	960	A
1	B	973	A
1	B	974	G
1	B	975	A

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Mol	Chain	Res	Type
1	B	979	A
1	B	980	A
1	B	981	A
1	B	982	C
1	B	983	A
1	B	984	A
1	B	987	C
1	B	989	G
1	B	995	C
1	B	999	U
1	B	1000	A
1	B	1001	A
1	B	1006	C
1	B	1007	C
1	B	1008	A
1	B	1009	A
1	B	1010	A
1	B	1012	U
1	B	1020	A
1	B	1021	A
1	B	1022	G
1	B	1023	U
1	B	1024	G
1	B	1025	G
1	B	1026	G
1	B	1027	A
1	B	1028	A
1	B	1029	A
1	B	1032	A
1	B	1033	U
1	B	1038	G
1	B	1039	A
1	B	1040	A
1	B	1043	C
1	B	1045	C
1	B	1047	G
1	B	1048	A
1	B	1070	A
1	B	1103	A
1	B	1108	U
1	B	1109	C
1	B	1110	G

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Mol	Chain	Res	Type
1	B	1115	G
1	B	1116	G
1	B	1122	G
1	B	1125	G
1	B	1126	A
1	B	1127	A
1	B	1128	G
1	B	1129	A
1	B	1131	G
1	B	1132	U
1	B	1133	A
1	B	1134	A
1	B	1135	C
1	B	1136	G
1	B	1139	G
1	B	1140	C
1	B	1141	U
1	B	1142	A
1	B	1153	C
1	B	1154	G
1	B	1173	U
1	B	1175	A
1	B	1176	U
1	B	1185	G
1	B	1186	G
1	B	1188	U
1	B	1195	G
1	B	1196	C
1	B	1202	G
1	B	1203	U
1	B	1204	A
1	B	1205	A
1	B	1210	G
1	B	1211	C
1	B	1212	G
1	B	1213	A
1	B	1224	U
1	B	1225	G
1	B	1226	A
1	B	1236	G
1	B	1242	U
1	B	1248	G

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Mol	Chain	Res	Type
1	B	1249	U
1	B	1250	G
1	B	1251	C
1	B	1252	G
1	B	1253	A
1	B	1254	A
1	B	1255	U
1	B	1263	U
1	B	1264	A
1	B	1265	A
1	B	1266	G
1	B	1267	U
1	B	1271	G
1	B	1272	A
1	B	1273	U
1	B	1274	A
1	B	1275	A
1	B	1282	U
1	B	1283	G
1	B	1284	A
1	B	1285	A
1	B	1286	A
1	B	1287	A
1	B	1288	G
1	B	1298	C
1	B	1299	G
1	B	1300	G
1	B	1301	A
1	B	1307	A
1	B	1308	A
1	B	1309	G
1	B	1310	G
1	B	1320	C
1	B	1321	A
1	B	1322	A
1	B	1325	U
1	B	1326	U
1	B	1327	A
1	B	1328	A
1	B	1329	U
1	B	1339	G
1	B	1340	U

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Mol	Chain	Res	Type
1	B	1341	G
1	B	1342	A
1	B	1344	U
1	B	1348	C
1	B	1351	C
1	B	1352	U
1	B	1354	A
1	B	1357	C
1	B	1358	G
1	B	1359	A
1	B	1360	G
1	B	1364	G
1	B	1365	A
1	B	1366	A
1	B	1371	G
1	B	1372	U
1	B	1373	A
1	B	1377	G
1	B	1378	A
1	B	1382	G
1	B	1383	A
1	B	1384	A
1	B	1390	U
1	B	1391	U
1	B	1392	A
1	B	1393	A
1	B	1394	U
1	B	1397	U
1	B	1416	G
1	B	1417	C
1	B	1418	G
1	B	1426	G
1	B	1428	C
1	B	1432	G
1	B	1433	A
1	B	1434	A
1	B	1438	U
1	B	1439	A
1	B	1445	G
1	B	1451	C
1	B	1452	G
1	B	1453	A

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Mol	Chain	Res	Type
1	B	1454	C
1	B	1455	G
1	B	1457	U
1	B	1458	U
1	B	1459	G
1	B	1465	G
1	B	1466	U
1	B	1467	U
1	B	1468	U
1	B	1469	A
1	B	1470	A
1	B	1475	G
1	B	1477	A
1	B	1490	A
1	B	1493	C
1	B	1494	A
1	B	1495	A
1	B	1496	A
1	B	1497	U
1	B	1508	A
1	B	1509	A
1	B	1510	G
1	B	1514	G
1	B	1515	A
1	B	1516	G
1	B	1520	U
1	B	1521	G
1	B	1522	A
1	B	1523	U
1	B	1524	G
1	B	1525	A
1	B	1526	C
1	B	1527	G
1	B	1528	A
1	B	1535	A
1	B	1536	C
1	B	1537	G
1	B	1542	U
1	B	1543	G
1	B	1544	A
1	B	1545	A
1	B	1546	G

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Mol	Chain	Res	Type
1	B	1553	A
1	B	1554	U
1	B	1558	C
1	B	1559	U
1	B	1560	G
1	B	1565	C
1	B	1566	A
1	B	1567	G
1	B	1568	G
1	B	1569	A
1	B	1570	A
1	B	1571	A
1	B	1572	A
1	B	1573	G
1	B	1579	A
1	B	1580	A
1	B	1581	G
1	B	1582	C
1	B	1583	A
1	B	1584	U
1	B	1585	C
1	B	1586	A
1	B	1601	G
1	B	1602	U
1	B	1603	A
1	B	1604	C
1	B	1605	C
1	B	1606	C
1	B	1607	C
1	B	1608	A
1	B	1609	A
1	B	1610	A
1	B	1613	G
1	B	1614	A
1	B	1616	A
1	B	1617	C
1	B	1618	1MA
1	B	1626	A
1	B	1630	A
1	B	1631	G
1	B	1633	G
1	B	1634	A

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Mol	Chain	Res	Type
1	B	1635	A
1	B	1639	C
1	B	1640	A
1	B	1641	A
1	B	1645	G
1	B	1646	C
1	B	1647	U
1	B	1652	A
1	B	1653	G
1	B	1654	A
1	B	1664	A
1	B	1668	A
1	B	1669	A
1	B	1670	C
1	B	1671	U
1	B	1672	A
1	B	1673	G
1	B	1674	G
1	B	1675	C
1	B	1676	A
1	B	1677	A
1	B	1678	A
1	B	1679	A
1	B	1680	U
1	B	1681	G
1	B	1687	G
1	B	1688	U
1	B	1690	A
1	B	1691	C
1	B	1692	U
1	B	1693	U
1	B	1695	G
1	B	1696	G
1	B	1697	G
1	B	1698	A
1	B	1699	G
1	B	1701	A
1	B	1713	A
1	B	1714	U
1	B	1715	G
1	B	1718	G
1	B	1719	G

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Mol	Chain	Res	Type
1	B	1720	U
1	B	1721	G
1	B	1722	A
1	B	1723	G
1	B	1728	C
1	B	1729	U
1	B	1730	C
1	B	1731	G
1	B	1732	C
1	B	1737	G
1	B	1738	G
1	B	1739	A
1	B	1740	G
1	B	1743	G
1	B	1744	A
1	B	1745	A
1	B	1751	U
1	B	1752	C
1	B	1753	G
1	B	1754	A
1	B	1755	A
1	B	1756	G
1	B	1758	U
1	B	1759	A
1	B	1760	C
1	B	1761	C
1	B	1762	A
1	B	1773	A
1	B	1774	C
1	B	1781	U
1	B	1782	U
1	B	1783	A
1	B	1784	A
1	B	1789	A
1	B	1790	C
1	B	1791	A
1	B	1801	A
1	B	1802	A
1	B	1807	G
1	B	1808	A
1	B	1809	A
1	B	1814	G

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Mol	Chain	Res	Type
1	B	1816	C
1	B	1817	G
1	B	1818	U
1	B	1819	A
1	B	1828	G
1	B	1833	C
1	B	1834	U
1	B	1837	C
1	B	1838	C
1	B	1839	G
1	B	1846	G
1	B	1847	A
1	B	1850	G
1	B	1851	U
1	B	1852	U
1	B	1854	A
1	B	1855	U
1	B	1856	U
1	B	1857	G
1	B	1858	A
1	B	1859	U
1	B	1866	A
1	B	1869	G
1	B	1871	A
1	B	1872	A
1	B	1875	G
1	B	1876	A
1	B	1883	U
1	B	1884	G
1	B	1885	A
1	B	1886	U
1	B	1887	C
1	B	1888	G
1	B	1889	A
1	B	1890	A
1	B	1891	G
1	B	1899	A
1	B	1912	A
1	B	1915	5MU
1	B	1918	A
1	B	1925	C
1	B	1926	U

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Mol	Chain	Res	Type
1	B	1928	A
1	B	1929	G
1	B	1930	G
1	B	1932	A
1	B	1934	C
1	B	1935	G
1	B	1936	A
1	B	1937	A
1	B	1939	5MU
1	B	1940	U
1	B	1941	C
1	B	1942	C
1	B	1943	U
1	B	1950	G
1	B	1951	U
1	B	1952	A
1	B	1953	A
1	B	1954	G
1	B	1955	U
1	B	1961	C
1	B	1963	U
1	B	1964	G
1	B	1965	C
1	B	1966	A
1	B	1967	C
1	B	1968	G
1	B	1969	A
1	B	1970	A
1	B	1971	U
1	B	1977	A
1	B	1989	G
1	B	1990	C
1	B	1992	G
1	B	2005	A
1	B	2012	G
1	B	2013	A
1	B	2014	A
1	B	2015	A
1	B	2016	U
1	B	2018	G
1	B	2019	A
1	B	2020	A

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Mol	Chain	Res	Type
1	B	2021	C
1	B	2022	U
1	B	2028	U
1	B	2029	G
1	B	2030	1MA
1	B	2031	A
1	B	2032	G
1	B	2033	A
1	B	2034	U
1	B	2035	G
1	B	2042	A
1	B	2051	A
1	B	2058	A
1	B	2059	A
1	B	2060	A
1	B	2062	A
1	B	2067	G
1	B	2075	U
1	B	2082	A
1	B	2085	U
1	B	2086	U
1	B	2103	C
1	B	2104	C
1	B	2110	G
1	B	2111	U
1	B	2113	U
1	B	2115	G
1	B	2116	G
1	B	2117	A
1	B	2118	U
1	B	2119	A
1	B	2124	G
1	B	2125	G
1	B	2126	A
1	B	2129	C
1	B	2130	U
1	B	2131	U
1	B	2132	U
1	B	2133	G
1	B	2134	A
1	B	2135	A
1	B	2144	G

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Mol	Chain	Res	Type
1	B	2146	C
1	B	2147	A
1	B	2155	U
1	B	2156	G
1	B	2157	G
1	B	2158	A
1	B	2162	G
1	B	2163	A
1	B	2164	C
1	B	2166	U
1	B	2167	U
1	B	2168	G
1	B	2169	A
1	B	2170	A
1	B	2171	A
1	B	2172	U
1	B	2179	C
1	B	2180	U
1	B	2185	U
1	B	2196	C
1	B	2197	U
1	B	2198	A
1	B	2199	A
1	B	2202	U
1	B	2203	U
1	B	2210	U
1	B	2211	A
1	B	2212	A
1	B	2213	U
1	B	2214	C
1	B	2226	C
1	B	2233	U
1	B	2237	G
1	B	2238	G
1	B	2244	U
1	B	2245	U
1	B	2252	G
1	B	2253	G
1	B	2258	C
1	B	2264	C
1	B	2265	U
1	B	2266	A

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Mol	Chain	Res	Type
1	B	2267	A
1	B	2268	A
1	B	2270	A
1	B	2271	G
1	B	2272	U
1	B	2273	A
1	B	2274	A
1	B	2281	A
1	B	2282	G
1	B	2283	C
1	B	2287	A
1	B	2297	A
1	B	2298	A
1	B	2305	U
1	B	2306	C
1	B	2307	G
1	B	2308	G
1	B	2310	C
1	B	2311	A
1	B	2319	G
1	B	2320	U
1	B	2322	A
1	B	2325	G
1	B	2326	C
1	B	2327	A
1	B	2333	A
1	B	2334	U
1	B	2335	A
1	B	2345	G
1	B	2346	A
1	B	2350	C
1	B	2351	G
1	B	2356	U
1	B	2357	G
1	B	2358	A
1	B	2359	C
1	B	2360	G
1	B	2365	G
1	B	2366	A
1	B	2371	G
1	B	2375	G
1	B	2376	A

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Mol	Chain	Res	Type
1	B	2377	A
1	B	2378	A
1	B	2388	A
1	B	2389	G
1	B	2390	U
1	B	2391	G
1	B	2392	A
1	B	2393	U
1	B	2394	C
1	B	2405	G
1	B	2410	G
1	B	2411	A
1	B	2421	G
1	B	2425	A
1	B	2426	A
1	B	2427	C
1	B	2428	G
1	B	2430	A
1	B	2431	U
1	B	2432	A
1	B	2433	A
1	B	2438	U
1	B	2439	A
1	B	2440	C
1	B	2447	G
1	B	2449	5MU
1	B	2450	A
1	B	2451	A
1	B	2452	C
1	B	2454	G
1	B	2467	C
1	B	2468	A
1	B	2469	A
1	B	2471	A
1	B	2472	G
1	B	2473	U
1	B	2474	U
1	B	2475	C
1	B	2477	U
1	B	2478	A
1	B	2480	C
1	B	2481	G

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Mol	Chain	Res	Type
1	B	2482	A
1	B	2483	C
1	B	2493	U
1	B	2497	A
1	B	2498	5MC
1	B	2499	C
1	B	2500	U
1	B	2501	C
1	B	2502	G
1	B	2503	A
1	B	2504	U
1	B	2517	C
1	B	2529	G
1	B	2530	A
1	B	2531	A
1	B	2532	G
1	B	2533	U
1	B	2534	A
1	B	2541	A
1	B	2542	A
1	B	2552	U
1	B	2554	U
1	B	2555	U
1	B	2562	U
1	B	2563	U
1	B	2564	A
1	B	2565	A
1	B	2566	A
1	B	2571	U
1	B	2573	C
1	B	2574	G
1	B	2582	G
1	B	2583	G
1	B	2584	U
1	B	2585	U
1	B	2586	U
1	B	2587	A
1	B	2591	C
1	B	2595	G
1	B	2596	U
1	B	2597	G
1	B	2598	A

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Mol	Chain	Res	Type
1	B	2601	C
1	B	2602	A
1	B	2607	G
1	B	2609	U
1	B	2610	C
1	B	2613	U
1	B	2626	C
1	B	2627	G
1	B	2628	C
1	B	2629	U
1	B	2638	G
1	B	2639	A
1	B	2644	G
1	B	2655	G
1	B	2661	G
1	B	2667	C
1	B	2675	A
1	B	2681	C
1	B	2682	A
1	B	2683	C
1	B	2684	U
1	B	2685	G
1	B	2686	G
1	B	2687	U
1	B	2689	U
1	B	2690	U
1	B	2702	G
1	B	2703	C
1	B	2704	C
1	B	2705	A
1	B	2712	C
1	B	2713	U
1	B	2718	G
1	B	2719	G
1	B	2720	U
1	B	2721	A
1	B	2722	G
1	B	2723	C
1	B	2724	U
1	B	2725	A
1	B	2726	A
1	B	2732	G

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Mol	Chain	Res	Type
1	B	2733	A
1	B	2734	A
1	B	2738	A
1	B	2739	U
1	B	2740	A
1	B	2741	A
1	B	2748	A
1	B	2749	A
1	B	2750	A
1	B	2751	G
1	B	2752	C
1	B	2754	U
1	B	2755	C
1	B	2757	A
1	B	2762	C
1	B	2763	G
1	B	2764	A
1	B	2766	A
1	B	2769	U
1	B	2770	G
1	B	2774	C
1	B	2775	G
1	B	2776	A
1	B	2777	G
1	B	2778	A
1	B	2779	U
1	B	2780	G
1	B	2788	C
1	B	2789	C
1	B	2796	U
1	B	2797	U
1	B	2798	U
1	B	2799	A
1	B	2805	C
1	B	2806	C
1	B	2807	U
1	B	2808	G
1	B	2809	A
1	B	2810	A
1	B	2819	G
1	B	2820	A
1	B	2821	A

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Mol	Chain	Res	Type
1	B	2822	G
1	B	2823	A
1	B	2824	C
1	B	2825	G
1	B	2826	A
1	B	2833	U
1	B	2834	G
1	B	2835	A
1	B	2844	G
1	B	2845	U
1	B	2846	G
1	B	2847	U
1	B	2848	G
1	B	2849	U
1	B	2858	C
1	B	2859	G
1	B	2860	A
1	B	2867	G
1	B	2868	A
1	B	2869	G
1	B	2870	C
1	B	2871	U
1	B	2872	A
1	B	2873	A
1	B	2879	A
1	B	2882	A
1	B	2884	U
1	B	2885	G
1	B	2887	A
1	B	2890	G
1	B	2891	U
1	B	2892	G
1	B	2893	A
1	B	2894	G
1	B	2903	U

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

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	PSU	B	1917	1	18,21,22	0.67	0	21,30,33	0.81	0
1	7MG	B	745	1	23,26,27	7.34	6 (26%)	27,39,42	2.43	4 (14%)
1	7MG	B	2251	1	23,26,27	7.52	6 (26%)	27,39,42	1.86	2 (7%)
1	5MU	B	1915	1	19,22,23	0.45	0	27,32,35	1.42	3 (11%)
1	5MU	B	747	1	19,22,23	0.65	1 (5%)	27,32,35	1.10	3 (11%)
1	PSU	B	746	1	18,21,22	0.90	0	21,30,33	1.07	1 (4%)
1	5MU	B	1939	1	19,22,23	0.98	2 (10%)	27,32,35	1.54	4 (14%)
1	1MA	B	2030	1	21,25,26	3.67	4 (19%)	30,37,40	1.23	4 (13%)
1	7MG	B	2069	1	23,26,27	2.71	3 (13%)	27,39,42	1.82	2 (7%)
1	5MC	B	2498	1	19,22,23	3.23	4 (21%)	26,32,35	2.52	5 (19%)
1	1MA	B	1618	1	21,25,26	3.65	4 (19%)	30,37,40	1.18	4 (13%)
1	PSU	B	1911	1	18,21,22	0.58	0	21,30,33	0.79	0
1	5MU	B	2449	1	19,22,23	2.42	3 (15%)	27,32,35	2.25	4 (14%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PSU	B	1917	1	-	1/7/25/26	0/2/2/2
1	7MG	B	745	1	-	2/7/37/38	0/3/3/3
1	7MG	B	2251	1	-	2/7/37/38	0/3/3/3
1	5MU	B	1915	1	-	0/7/25/26	0/2/2/2
1	PSU	B	746	1	-	1/7/25/26	0/2/2/2
1	7MG	B	2069	1	-	0/7/37/38	0/3/3/3
1	5MU	B	1939	1	2/2/5/5	2/7/25/26	0/2/2/2
1	1MA	B	2030	1	-	3/7/25/26	0/3/3/3
1	5MC	B	2498	1	1/1/5/5	2/7/25/26	0/2/2/2
1	1MA	B	1618	1	-	2/7/25/26	0/3/3/3
1	5MU	B	747	1	-	2/7/25/26	0/2/2/2
1	5MU	B	2449	1	1/1/5/5	5/7/25/26	0/2/2/2
1	PSU	B	1911	1	-	0/7/25/26	0/2/2/2

All (33) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2251	7MG	C1'-N9	32.95	2.06	1.46
1	B	745	7MG	C1'-N9	31.79	2.04	1.46
1	B	2030	1MA	C1'-N9	15.44	1.91	1.47
1	B	1618	1MA	C1'-N9	15.20	1.90	1.47
1	B	2251	7MG	C8-N9	-12.35	1.37	1.45
1	B	2069	7MG	C8-N9	-11.94	1.38	1.45
1	B	745	7MG	C8-N9	-11.50	1.38	1.45
1	B	2498	5MC	C1'-N1	11.32	1.79	1.47
1	B	2449	5MU	O3'-C3'	8.25	1.63	1.43
1	B	745	7MG	O3'-C3'	6.25	1.58	1.43
1	B	745	7MG	C5'-C4'	5.61	1.68	1.51
1	B	2498	5MC	C5'-C4'	5.59	1.68	1.51
1	B	2498	5MC	O3'-C3'	5.36	1.56	1.43
1	B	1618	1MA	O3'-C3'	4.74	1.54	1.43
1	B	2251	7MG	O3'-C3'	4.61	1.54	1.43
1	B	2449	5MU	O5'-C5'	4.57	1.57	1.44
1	B	2449	5MU	C5'-C4'	4.51	1.65	1.51
1	B	2251	7MG	C5'-C4'	4.38	1.64	1.51
1	B	2030	1MA	O3'-C3'	3.81	1.52	1.43
1	B	2030	1MA	C5'-C4'	3.80	1.63	1.51
1	B	2251	7MG	C5-N7	3.51	1.40	1.35
1	B	745	7MG	C5-N7	3.36	1.39	1.35
1	B	2069	7MG	C5-N7	3.34	1.39	1.35
1	B	1618	1MA	C5'-C4'	3.16	1.61	1.51
1	B	1939	5MU	O3'-C3'	2.95	1.50	1.43
1	B	1618	1MA	C6-N6	2.87	1.34	1.28
1	B	2030	1MA	C6-N6	2.71	1.34	1.28
1	B	2498	5MC	O5'-C5'	2.66	1.51	1.44
1	B	1939	5MU	C5'-C4'	2.56	1.59	1.51
1	B	2251	7MG	C8-N7	-2.20	1.31	1.42
1	B	2069	7MG	C8-N7	-2.19	1.31	1.42
1	B	745	7MG	C8-N7	-2.16	1.31	1.42
1	B	747	5MU	O3'-C3'	2.13	1.48	1.43

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2449	5MU	O4'-C4'-C5'	-8.27	82.84	109.33
1	B	2498	5MC	C1'-N1-C6	7.87	134.11	121.15
1	B	2069	7MG	N9-C8-N7	7.51	114.01	103.37
1	B	745	7MG	N9-C8-N7	7.43	113.90	103.37
1	B	2251	7MG	N9-C8-N7	7.42	113.88	103.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2498	5MC	C1'-N1-C2	-6.75	103.51	118.44
1	B	745	7MG	C5'-C4'-C3'	6.26	137.74	115.21
1	B	1939	5MU	O3'-C3'-C2'	5.55	129.62	111.82
1	B	745	7MG	O3'-C3'-C4'	5.37	126.49	111.08
1	B	2449	5MU	O3'-C3'-C2'	4.96	127.72	111.82
1	B	2498	5MC	O4'-C4'-C5'	4.65	124.22	109.33
1	B	2449	5MU	C5'-C4'-C3'	4.55	131.59	115.21
1	B	745	7MG	C4-C5-N7	4.52	110.72	105.38
1	B	2069	7MG	C4-C5-N7	4.49	110.68	105.38
1	B	2030	1MA	O3'-C3'-C4'	4.31	123.45	111.08
1	B	2498	5MC	C5'-C4'-C3'	4.30	130.71	115.21
1	B	2251	7MG	C4-C5-N7	4.28	110.43	105.38
1	B	1915	5MU	O3'-C3'-C2'	4.23	125.38	111.82
1	B	1618	1MA	O4'-C4'-C5'	4.21	122.82	109.33
1	B	1915	5MU	O3'-C3'-C4'	4.00	122.57	111.08
1	B	1939	5MU	C6-C5-C4	3.53	120.93	118.02
1	B	747	5MU	C6-C5-C4	3.46	120.87	118.02
1	B	2449	5MU	C6-C5-C4	3.35	120.78	118.02
1	B	2498	5MC	O3'-C3'-C4'	3.18	120.21	111.08
1	B	1915	5MU	C6-C5-C4	3.12	120.59	118.02
1	B	747	5MU	O3'-C3'-C4'	-2.68	103.39	111.08
1	B	2030	1MA	O3'-C3'-C2'	2.63	120.24	111.82
1	B	2030	1MA	N1-C2-N3	2.58	129.06	126.00
1	B	1618	1MA	C5'-C4'-C3'	2.56	124.43	115.21
1	B	2030	1MA	C5'-C4'-C3'	2.53	124.32	115.21
1	B	1939	5MU	C5'-C4'-C3'	-2.51	106.16	115.21
1	B	1618	1MA	N1-C2-N3	2.48	128.94	126.00
1	B	1618	1MA	O3'-C3'-C2'	2.29	119.17	111.82
1	B	746	PSU	O4'-C4'-C5'	2.28	116.63	109.33
1	B	1939	5MU	C5-C6-N1	-2.07	121.06	123.31
1	B	747	5MU	C5-C6-N1	-2.01	121.14	123.31

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	B	1939	5MU	C4'
1	B	1939	5MU	C3'
1	B	2449	5MU	C4'
1	B	2498	5MC	C4'

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	B	2030	1MA	O4'-C4'-C5'-O5'
1	B	2449	5MU	O4'-C4'-C5'-O5'
1	B	2449	5MU	C4'-C5'-O5'-P
1	B	2498	5MC	C4'-C5'-O5'-P
1	B	1939	5MU	C3'-C4'-C5'-O5'
1	B	2030	1MA	C3'-C4'-C5'-O5'
1	B	2449	5MU	C3'-C4'-C5'-O5'
1	B	2498	5MC	O4'-C4'-C5'-O5'
1	B	747	5MU	C3'-C4'-C5'-O5'
1	B	747	5MU	O4'-C4'-C5'-O5'
1	B	1618	1MA	C3'-C4'-C5'-O5'
1	B	1939	5MU	O4'-C4'-C5'-O5'
1	B	745	7MG	C4'-C5'-O5'-P
1	B	1618	1MA	O4'-C4'-C5'-O5'
1	B	745	7MG	O4'-C4'-C5'-O5'
1	B	2251	7MG	C3'-C4'-C5'-O5'
1	B	2251	7MG	O4'-C4'-C5'-O5'
1	B	2030	1MA	C4'-C5'-O5'-P
1	B	2449	5MU	O4'-C1'-N1-C6
1	B	2449	5MU	C2'-C1'-N1-C6
1	B	746	PSU	O4'-C4'-C5'-O5'
1	B	1917	PSU	C4'-C5'-O5'-P

There are no ring outliers.

13 monomers are involved in 159 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	1917	PSU	6	0
1	B	745	7MG	18	0
1	B	2251	7MG	1	0
1	B	1915	5MU	10	0
1	B	747	5MU	26	0
1	B	746	PSU	22	0
1	B	1939	5MU	41	0
1	B	2030	1MA	3	0
1	B	2069	7MG	14	0
1	B	2498	5MC	17	0
1	B	1618	1MA	1	0
1	B	1911	PSU	1	0
1	B	2449	5MU	14	0

5.5 Carbohydrates (i)

There are no oligosaccharides 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)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1566

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	75:G	O3'	76:C	P	2.66
1	B	2023:C	O3'	2024:G	P	2.65
1	B	87:U	O3'	88:G	P	2.57
1	B	1004:U	O3'	1005:C	P	2.55
1	B	2652:C	O3'	2653:U	P	2.55
1	B	2068:U	O3'	2069:7MG	P	2.53
1	B	334:C	O3'	335:C	P	2.50
1	B	1163:G	O3'	1164:C	P	2.50
1	B	1402:U	O3'	1403:A	P	2.47
1	B	2442:C	O3'	2443:C	P	2.45
1	B	318:C	O3'	319:G	P	2.42
1	B	207:A	O3'	208:C	P	2.31
1	B	429:A	O3'	430:A	P	2.31
1	B	762:U	O3'	763:G	P	2.31
1	B	2384:U	O3'	2385:C	P	2.31
1	B	1905:C	O3'	1906:G	P	2.27
1	B	588:U	O3'	589:U	P	2.26
1	B	1189:A	O3'	1190:G	P	2.25
1	B	66:C	O3'	67:U	P	2.24
1	B	423:A	O3'	424:G	P	2.24

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	670:A	O3'	671:C	P	2.24
1	B	1302:A	O3'	1303:G	P	2.24
1	B	1480:C	O3'	1481:U	P	2.24
1	B	2344:U	O3'	2345:G	P	2.22
1	B	2296:U	O3'	2297:A	P	2.21
1	B	1944:U	O3'	1945:G	P	2.20
1	B	2258:C	O3'	2259:U	P	2.20
1	B	324:A	O3'	325:G	P	2.19
1	B	1848:A	O3'	1849:G	P	2.19
1	B	435:C	O3'	436:C	P	2.18
1	B	1404:C	O3'	1405:U	P	2.18
1	B	119:A	O3'	120:U	P	2.17
1	B	990:A	O3'	991:C	P	2.17
1	B	1927:A	O3'	1928:A	P	2.16
1	B	157:C	O3'	158:U	P	2.15
1	B	850:U	O3'	851:C	P	2.15
1	B	74:A	O3'	75:G	P	2.14
1	B	323:C	O3'	324:A	P	2.13
1	B	316:C	O3'	317:G	P	2.12
1	B	322:A	O3'	323:C	P	2.12
1	B	2321:U	O3'	2322:A	P	2.12
1	B	1150:C	O3'	1151:A	P	2.11
1	B	1996:C	O3'	1997:C	P	2.11
1	B	2374:C	O3'	2375:G	P	2.11
1	B	110:G	O3'	111:A	P	2.10
1	B	2092:U	O3'	2093:G	P	2.10
1	B	1159:U	O3'	1160:G	P	2.09
1	B	1667:G	O3'	1668:A	P	2.09
1	B	43:G	O3'	44:A	P	2.08
1	B	239:C	O3'	240:C	P	2.08
1	B	59:U	O3'	60:G	P	2.07
1	B	601:C	O3'	602:A	P	2.07
1	B	1197:G	O3'	1198:U	P	2.07
1	B	1598:A	O3'	1599:U	P	2.07
1	B	856:G	O3'	857:G	P	2.06
1	B	1856:U	O3'	1857:G	P	2.06
1	B	2521:C	O3'	2522:U	P	2.06
1	B	2556:C	O3'	2557:G	P	2.06
1	B	668:A	O3'	669:G	P	2.05
1	B	1130:U	O3'	1131:G	P	2.05
1	B	1425:G	O3'	1426:G	P	2.05
1	B	1853:A	O3'	1854:A	P	2.05

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	28:A	O3'	29:U	P	2.04
1	B	320:A	O3'	321:U	P	2.04
1	B	971:G	O3'	972:A	P	2.04
1	B	1294:U	O3'	1295:C	P	2.04
1	B	1608:A	O3'	1609:A	P	2.04
1	B	2517:C	O3'	2518:A	P	2.04
1	B	498:G	O3'	499:U	P	2.03
1	B	940:G	O3'	941:A	P	2.03
1	B	1347:A	O3'	1348:C	P	2.03
1	B	1931:U	O3'	1932:A	P	2.03
1	B	1988:G	O3'	1989:G	P	2.03
1	B	60:G	O3'	61:C	P	2.02
1	B	67:U	O3'	68:G	P	2.02
1	B	97:C	O3'	98:G	P	2.02
1	B	764:A	O3'	765:C	P	2.02
1	B	926:G	O3'	927:A	P	2.02
1	B	1429:G	O3'	1430:C	P	2.02
1	B	2050:C	O3'	2051:A	P	2.02
1	B	2070:A	O3'	2071:A	P	2.02
1	B	2112:G	O3'	2113:U	P	2.02
1	B	793:A	O3'	794:A	P	2.01
1	B	2076:U	O3'	2077:A	P	2.01
1	B	2505:G	O3'	2506:U	P	2.01
1	B	52:A	O3'	53:A	P	2.00
1	B	70:G	O3'	71:A	P	2.00
1	B	275:C	O3'	276:U	P	2.00
1	B	319:G	O3'	320:A	P	2.00
1	B	416:U	O3'	417:C	P	2.00
1	B	1195:G	O3'	1196:C	P	2.00
1	B	1933:G	O3'	1934:C	P	2.00
1	B	2381:A	O3'	2382:G	P	2.00
1	B	2406:A	O3'	2407:A	P	2.00
1	B	2750:A	O3'	2751:G	P	2.00
1	B	11:C	O3'	12:U	P	1.99
1	B	73:A	O3'	74:A	P	1.99
1	B	98:G	O3'	99:U	P	1.99
1	B	1855:U	O3'	1856:U	P	1.99
1	B	1865:U	O3'	1866:A	P	1.99
1	B	1970:A	O3'	1971:U	P	1.99
1	B	2055:C	O3'	2056:G	P	1.99
1	B	2752:C	O3'	2753:A	P	1.99
1	B	2848:G	O3'	2849:U	P	1.99

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	45:G	O3'	46:G	P	1.98
1	B	118:A	O3'	119:A	P	1.98
1	B	684:G	O3'	685:A	P	1.98
1	B	1047:G	O3'	1048:A	P	1.98
1	B	1149:G	O3'	1150:C	P	1.98
1	B	1326:U	O3'	1327:A	P	1.98
1	B	1620:G	O3'	1621:U	P	1.98
1	B	2452:C	O3'	2453:A	P	1.98
1	B	2497:A	O3'	2498:5MC	P	1.98
1	B	27:G	O3'	28:A	P	1.97
1	B	51:G	O3'	52:A	P	1.97
1	B	72:U	O3'	73:A	P	1.97
1	B	94:A	O3'	95:A	P	1.97
1	B	280:U	O3'	281:C	P	1.97
1	B	300:A	O3'	301:G	P	1.97
1	B	428:A	O3'	429:A	P	1.97
1	B	585:G	O3'	586:A	P	1.97
1	B	802:A	O3'	803:U	P	1.97
1	B	860:U	O3'	861:A	P	1.97
1	B	915:C	O3'	916:G	P	1.97
1	B	1770:G	O3'	1771:C	P	1.97
1	B	1943:U	O3'	1944:U	P	1.97
1	B	1971:U	O3'	1972:G	P	1.97
1	B	2009:A	O3'	2010:G	P	1.97
1	B	2060:A	O3'	2061:G	P	1.97
1	B	2062:A	O3'	2063:C	P	1.97
1	B	2067:G	O3'	2068:U	P	1.97
1	B	2902:C	O3'	2903:U	P	1.97
1	B	14:A	O3'	15:G	P	1.96
1	B	25:U	O3'	26:G	P	1.96
1	B	190:A	O3'	191:A	P	1.96
1	B	430:A	O3'	431:U	P	1.96
1	B	669:G	O3'	670:A	P	1.96
1	B	1050:A	O3'	1051:G	P	1.96
1	B	1499:C	O3'	1500:G	P	1.96
1	B	1566:A	O3'	1567:G	P	1.96
1	B	1610:A	O3'	1611:C	P	1.96
1	B	1663:G	O3'	1664:A	P	1.96
1	B	1673:G	O3'	1674:G	P	1.96
1	B	2040:G	O3'	2041:U	P	1.96
1	B	2155:U	O3'	2156:G	P	1.96
1	B	2453:A	O3'	2454:G	P	1.96

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	112:U	O3'	113:U	P	1.95
1	B	168:G	O3'	169:G	P	1.95
1	B	368:A	O3'	369:U	P	1.95
1	B	449:A	O3'	450:G	P	1.95
1	B	483:A	O3'	484:C	P	1.95
1	B	607:U	O3'	608:A	P	1.95
1	B	775:G	O3'	776:G	P	1.95
1	B	1028:A	O3'	1029:A	P	1.95
1	B	1428:C	O3'	1429:G	P	1.95
1	B	1465:G	O3'	1466:U	P	1.95
1	B	1609:A	O3'	1610:A	P	1.95
1	B	1626:A	O3'	1627:G	P	1.95
1	B	1828:G	O3'	1829:A	P	1.95
1	B	1942:C	O3'	1943:U	P	1.95
1	B	1969:A	O3'	1970:A	P	1.95
1	B	2469:A	O3'	2470:G	P	1.95
1	B	93:G	O3'	94:A	P	1.94
1	B	203:A	O3'	204:A	P	1.94
1	B	214:G	O3'	215:G	P	1.94
1	B	478:A	O3'	479:A	P	1.94
1	B	501:A	O3'	502:A	P	1.94
1	B	524:G	O3'	525:U	P	1.94
1	B	525:U	O3'	526:A	P	1.94
1	B	573:U	O3'	574:A	P	1.94
1	B	972:A	O3'	973:A	P	1.94
1	B	1124:G	O3'	1125:G	P	1.94
1	B	1253:A	O3'	1254:A	P	1.94
1	B	1288:G	O3'	1289:C	P	1.94
1	B	1528:A	O3'	1529:G	P	1.94
1	B	1668:A	O3'	1669:A	P	1.94
1	B	1951:U	O3'	1952:A	P	1.94
1	B	1989:G	O3'	1990:C	P	1.94
1	B	2156:G	O3'	2157:G	P	1.94
1	B	2449:5MU	O3'	2450:A	P	1.94
1	B	2617:U	O3'	2618:G	P	1.94
1	B	26:G	O3'	27:G	P	1.93
1	B	50:U	O3'	51:G	P	1.93
1	B	64:A	O3'	65:U	P	1.93
1	B	89:A	O3'	90:U	P	1.93
1	B	91:A	O3'	92:U	P	1.93
1	B	92:U	O3'	93:G	P	1.93
1	B	101:A	O3'	102:U	P	1.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	188:G	O3'	189:G	P	1.93
1	B	212:G	O3'	213:A	P	1.93
1	B	456:C	O3'	457:A	P	1.93
1	B	511:U	O3'	512:G	P	1.93
1	B	570:G	O3'	571:U	P	1.93
1	B	683:U	O3'	684:G	P	1.93
1	B	760:G	O3'	761:A	P	1.93
1	B	761:A	O3'	762:U	P	1.93
1	B	845:A	O3'	846:U	P	1.93
1	B	847:U	O3'	848:C	P	1.93
1	B	901:C	O3'	902:C	P	1.93
1	B	916:G	O3'	917:A	P	1.93
1	B	941:A	O3'	942:G	P	1.93
1	B	987:C	O3'	988:A	P	1.93
1	B	1049:C	O3'	1050:A	P	1.93
1	B	1116:G	O3'	1117:C	P	1.93
1	B	1125:G	O3'	1126:A	P	1.93
1	B	1283:G	O3'	1284:A	P	1.93
1	B	1451:C	O3'	1452:G	P	1.93
1	B	1542:U	O3'	1543:G	P	1.93
1	B	1887:C	O3'	1888:G	P	1.93
1	B	1991:U	O3'	1992:G	P	1.93
1	B	2012:G	O3'	2013:A	P	1.93
1	B	2220:U	O3'	2221:G	P	1.93
1	B	2394:C	O3'	2395:C	P	1.93
1	B	2483:C	O3'	2484:G	P	1.93
1	B	2887:A	O3'	2888:C	P	1.93
1	B	9:G	O3'	10:A	P	1.92
1	B	36:G	O3'	37:C	P	1.92
1	B	46:G	O3'	47:C	P	1.92
1	B	53:A	O3'	54:G	P	1.92
1	B	130:C	O3'	131:A	P	1.92
1	B	183:C	O3'	184:C	P	1.92
1	B	206:U	O3'	207:A	P	1.92
1	B	234:U	O3'	235:U	P	1.92
1	B	256:A	O3'	257:C	P	1.92
1	B	262:A	O3'	263:G	P	1.92
1	B	274:C	O3'	275:C	P	1.92
1	B	297:G	O3'	298:G	P	1.92
1	B	432:A	O3'	433:C	P	1.92
1	B	448:U	O3'	449:A	P	1.92
1	B	477:A	O3'	478:A	P	1.92

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	514:A	O3'	515:A	P	1.92
1	B	586:A	O3'	587:C	P	1.92
1	B	699:A	O3'	700:G	P	1.92
1	B	735:A	O3'	736:C	P	1.92
1	B	917:A	O3'	918:A	P	1.92
1	B	1029:A	O3'	1030:C	P	1.92
1	B	1240:U	O3'	1241:A	P	1.92
1	B	1255:U	O3'	1256:G	P	1.92
1	B	1327:A	O3'	1328:A	P	1.92
1	B	1427:A	O3'	1428:C	P	1.92
1	B	1445:G	O3'	1446:C	P	1.92
1	B	1450:G	O3'	1451:C	P	1.92
1	B	1586:A	O3'	1587:G	P	1.92
1	B	1679:A	O3'	1680:U	P	1.92
1	B	1739:A	O3'	1740:G	P	1.92
1	B	1847:A	O3'	1848:A	P	1.92
1	B	1857:G	O3'	1858:A	P	1.92
1	B	1884:G	O3'	1885:A	P	1.92
1	B	1936:A	O3'	1937:A	P	1.92
1	B	2041:U	O3'	2042:A	P	1.92
1	B	2057:G	O3'	2058:A	P	1.92
1	B	2382:G	O3'	2383:G	P	1.92
1	B	2404:U	O3'	2405:G	P	1.92
1	B	2405:G	O3'	2406:A	P	1.92
1	B	2424:C	O3'	2425:A	P	1.92
1	B	2689:U	O3'	2690:U	P	1.92
1	B	2713:U	O3'	2714:G	P	1.92
1	B	2718:G	O3'	2719:G	P	1.92
1	B	2820:A	O3'	2821:A	P	1.92
1	B	2870:C	O3'	2871:U	P	1.92
1	B	2879:A	O3'	2880:C	P	1.92
1	B	116:C	O3'	117:G	P	1.91
1	B	270:A	O3'	271:G	P	1.91
1	B	276:U	O3'	277:G	P	1.91
1	B	298:G	O3'	299:A	P	1.91
1	B	330:A	O3'	331:C	P	1.91
1	B	427:U	O3'	428:A	P	1.91
1	B	431:U	O3'	432:A	P	1.91
1	B	476:G	O3'	477:A	P	1.91
1	B	609:A	O3'	610:C	P	1.91
1	B	637:A	O3'	638:G	P	1.91
1	B	673:C	O3'	674:G	P	1.91

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	706:A	O3'	707:G	P	1.91
1	B	787:C	O3'	788:A	P	1.91
1	B	803:U	O3'	804:A	P	1.91
1	B	859:G	O3'	860:U	P	1.91
1	B	896:A	O3'	897:C	P	1.91
1	B	912:C	O3'	913:U	P	1.91
1	B	988:A	O3'	989:G	P	1.91
1	B	1271:G	O3'	1272:A	P	1.91
1	B	1311:G	O3'	1312:U	P	1.91
1	B	1439:A	O3'	1440:U	P	1.91
1	B	1466:U	O3'	1467:U	P	1.91
1	B	1467:U	O3'	1468:U	P	1.91
1	B	1546:G	O3'	1547:C	P	1.91
1	B	1572:A	O3'	1573:G	P	1.91
1	B	1573:G	O3'	1574:C	P	1.91
1	B	1645:G	O3'	1646:C	P	1.91
1	B	1751:U	O3'	1752:C	P	1.91
1	B	1790:C	O3'	1791:A	P	1.91
1	B	1852:U	O3'	1853:A	P	1.91
1	B	1934:C	O3'	1935:G	P	1.91
1	B	1940:U	O3'	1941:C	P	1.91
1	B	2104:C	O3'	2105:U	P	1.91
1	B	2110:G	O3'	2111:U	P	1.91
1	B	2209:G	O3'	2210:U	P	1.91
1	B	2297:A	O3'	2298:A	P	1.91
1	B	2447:G	O3'	2448:A	P	1.91
1	B	2454:G	O3'	2455:G	P	1.91
1	B	2466:C	O3'	2467:C	P	1.91
1	B	2512:C	O3'	2513:A	P	1.91
1	B	2561:U	O3'	2562:U	P	1.91
1	B	2684:U	O3'	2685:G	P	1.91
1	B	2726:A	O3'	2727:A	P	1.91
1	B	2850:A	O3'	2851:A	P	1.91
1	B	84:A	O3'	85:G	P	1.90
1	B	111:A	O3'	112:U	P	1.90
1	B	264:C	O3'	265:A	P	1.90
1	B	268:C	O3'	269:C	P	1.90
1	B	310:A	O3'	311:A	P	1.90
1	B	321:U	O3'	322:A	P	1.90
1	B	410:G	O3'	411:G	P	1.90
1	B	496:G	O3'	497:A	P	1.90
1	B	497:A	O3'	498:G	P	1.90

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	565:C	O3'	566:U	P	1.90
1	B	650:C	O3'	651:G	P	1.90
1	B	697:G	O3'	698:C	P	1.90
1	B	698:C	O3'	699:A	P	1.90
1	B	861:A	O3'	862:G	P	1.90
1	B	933:A	O3'	934:U	P	1.90
1	B	1019:U	O3'	1020:A	P	1.90
1	B	1108:U	O3'	1109:C	P	1.90
1	B	1133:A	O3'	1134:A	P	1.90
1	B	1134:A	O3'	1135:C	P	1.90
1	B	1301:A	O3'	1302:A	P	1.90
1	B	1382:G	O3'	1383:A	P	1.90
1	B	1625:C	O3'	1626:A	P	1.90
1	B	1789:A	O3'	1790:C	P	1.90
1	B	1854:A	O3'	1855:U	P	1.90
1	B	1859:U	O3'	1860:G	P	1.90
1	B	1866:A	O3'	1867:G	P	1.90
1	B	1941:C	O3'	1942:C	P	1.90
1	B	2011:U	O3'	2012:G	P	1.90
1	B	2111:U	O3'	2112:G	P	1.90
1	B	2113:U	O3'	2114:A	P	1.90
1	B	2421:G	O3'	2422:C	P	1.90
1	B	2467:C	O3'	2468:A	P	1.90
1	B	2591:C	O3'	2592:G	P	1.90
1	B	2809:A	O3'	2810:A	P	1.90
1	B	8:C	O3'	9:G	P	1.89
1	B	148:U	O3'	149:A	P	1.89
1	B	253:C	O3'	254:G	P	1.89
1	B	254:G	O3'	255:A	P	1.89
1	B	299:A	O3'	300:A	P	1.89
1	B	369:U	O3'	370:G	P	1.89
1	B	404:A	O3'	405:U	P	1.89
1	B	460:A	O3'	461:C	P	1.89
1	B	566:U	O3'	567:U	P	1.89
1	B	568:U	O3'	569:U	P	1.89
1	B	602:A	O3'	603:A	P	1.89
1	B	652:U	O3'	653:U	P	1.89
1	B	674:G	O3'	675:A	P	1.89
1	B	734:A	O3'	735:A	P	1.89
1	B	776:G	O3'	777:G	P	1.89
1	B	801:G	O3'	802:A	P	1.89
1	B	877:A	O3'	878:A	P	1.89

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	930:G	O3'	931:U	P	1.89
1	B	975:A	O3'	976:G	P	1.89
1	B	1128:G	O3'	1129:A	P	1.89
1	B	1132:U	O3'	1133:A	P	1.89
1	B	1142:A	O3'	1143:A	P	1.89
1	B	1155:A	O3'	1156:A	P	1.89
1	B	1185:G	O3'	1186:G	P	1.89
1	B	1270:C	O3'	1271:G	P	1.89
1	B	1325:U	O3'	1326:U	P	1.89
1	B	1331:G	O3'	1332:G	P	1.89
1	B	1419:A	O3'	1420:A	P	1.89
1	B	1426:G	O3'	1427:A	P	1.89
1	B	1475:G	O3'	1476:U	P	1.89
1	B	1522:A	O3'	1523:U	P	1.89
1	B	1545:A	O3'	1546:G	P	1.89
1	B	1567:G	O3'	1568:G	P	1.89
1	B	1578:U	O3'	1579:A	P	1.89
1	B	1695:G	O3'	1696:G	P	1.89
1	B	1723:G	O3'	1724:G	P	1.89
1	B	1740:G	O3'	1741:C	P	1.89
1	B	1752:C	O3'	1753:G	P	1.89
1	B	1791:A	O3'	1792:G	P	1.89
1	B	1802:A	O3'	1803:A	P	1.89
1	B	1813:G	O3'	1814:G	P	1.89
1	B	1834:U	O3'	1835:G	P	1.89
1	B	1869:G	O3'	1870:C	P	1.89
1	B	1874:C	O3'	1875:G	P	1.89
1	B	1924:C	O3'	1925:C	P	1.89
1	B	1935:G	O3'	1936:A	P	1.89
1	B	1967:C	O3'	1968:G	P	1.89
1	B	1992:G	O3'	1993:U	P	1.89
1	B	2020:A	O3'	2021:C	P	1.89
1	B	2054:A	O3'	2055:C	P	1.89
1	B	2335:A	O3'	2336:A	P	1.89
1	B	2425:A	O3'	2426:A	P	1.89
1	B	2451:A	O3'	2452:C	P	1.89
1	B	2468:A	O3'	2469:A	P	1.89
1	B	2503:A	O3'	2504:U	P	1.89
1	B	2504:U	O3'	2505:G	P	1.89
1	B	2571:U	O3'	2572:A	P	1.89
1	B	2606:C	O3'	2607:G	P	1.89
1	B	2628:C	O3'	2629:U	P	1.89

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2683:C	O3'	2684:U	P	1.89
1	B	2723:C	O3'	2724:U	P	1.89
1	B	2843:G	O3'	2844:G	P	1.89
1	B	2872:A	O3'	2873:A	P	1.89
1	B	149:A	O3'	150:U	P	1.88
1	B	179:C	O3'	180:G	P	1.88
1	B	263:G	O3'	264:C	P	1.88
1	B	278:A	O3'	279:A	P	1.88
1	B	279:A	O3'	280:U	P	1.88
1	B	331:C	O3'	332:A	P	1.88
1	B	373:U	O3'	374:A	P	1.88
1	B	458:G	O3'	459:U	P	1.88
1	B	538:A	O3'	539:G	P	1.88
1	B	564:C	O3'	565:C	P	1.88
1	B	567:U	O3'	568:U	P	1.88
1	B	626:A	O3'	627:A	P	1.88
1	B	627:A	O3'	628:G	P	1.88
1	B	651:G	O3'	652:U	P	1.88
1	B	653:U	O3'	654:A	P	1.88
1	B	672:C	O3'	673:C	P	1.88
1	B	685:A	O3'	686:U	P	1.88
1	B	728:G	O3'	729:G	P	1.88
1	B	744:U	O3'	745:7MG	P	1.88
1	B	799:G	O3'	800:A	P	1.88
1	B	846:U	O3'	847:U	P	1.88
1	B	1009:A	O3'	1010:A	P	1.88
1	B	1023:U	O3'	1024:G	P	1.88
1	B	1044:C	O3'	1045:C	P	1.88
1	B	1114:C	O3'	1115:G	P	1.88
1	B	1196:C	O3'	1197:G	P	1.88
1	B	1241:A	O3'	1242:U	P	1.88
1	B	1273:U	O3'	1274:A	P	1.88
1	B	1321:A	O3'	1322:A	P	1.88
1	B	1322:A	O3'	1323:C	P	1.88
1	B	1376:C	O3'	1377:G	P	1.88
1	B	1415:U	O3'	1416:G	P	1.88
1	B	1468:U	O3'	1469:A	P	1.88
1	B	1470:A	O3'	1471:G	P	1.88
1	B	1510:G	O3'	1511:G	P	1.88
1	B	1521:G	O3'	1522:A	P	1.88
1	B	1565:C	O3'	1566:A	P	1.88
1	B	1612:C	O3'	1613:G	P	1.88

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1640:A	O3'	1641:A	P	1.88
1	B	1681:G	O3'	1682:G	P	1.88
1	B	1696:G	O3'	1697:G	P	1.88
1	B	1799:G	O3'	1800:C	P	1.88
1	B	1816:C	O3'	1817:G	P	1.88
1	B	1950:G	O3'	1951:U	P	1.88
1	B	2021:C	O3'	2022:U	P	1.88
1	B	2061:G	O3'	2062:A	P	1.88
1	B	2103:C	O3'	2104:C	P	1.88
1	B	2158:A	O3'	2159:G	P	1.88
1	B	2180:U	O3'	2181:U	P	1.88
1	B	2281:A	O3'	2282:G	P	1.88
1	B	2287:A	O3'	2288:A	P	1.88
1	B	2317:A	O3'	2318:G	P	1.88
1	B	2332:C	O3'	2333:A	P	1.88
1	B	2346:A	O3'	2347:C	P	1.88
1	B	2360:G	O3'	2361:G	P	1.88
1	B	2378:A	O3'	2379:G	P	1.88
1	B	2493:U	O3'	2494:G	P	1.88
1	B	2541:A	O3'	2542:A	P	1.88
1	B	2553:G	O3'	2554:U	P	1.88
1	B	2562:U	O3'	2563:U	P	1.88
1	B	2612:C	O3'	2613:U	P	1.88
1	B	2625:G	O3'	2626:C	P	1.88
1	B	2722:G	O3'	2723:C	P	1.88
1	B	2845:U	O3'	2846:G	P	1.88
1	B	2878:U	O3'	2879:A	P	1.88
1	B	13:A	O3'	14:A	P	1.87
1	B	15:G	O3'	16:C	P	1.87
1	B	32:C	O3'	33:C	P	1.87
1	B	47:C	O3'	48:G	P	1.87
1	B	99:U	O3'	100:U	P	1.87
1	B	202:U	O3'	203:A	P	1.87
1	B	216:A	O3'	217:A	P	1.87
1	B	218:A	O3'	219:A	P	1.87
1	B	221:A	O3'	222:A	P	1.87
1	B	241:A	O3'	242:G	P	1.87
1	B	277:G	O3'	278:A	P	1.87
1	B	327:G	O3'	328:U	P	1.87
1	B	328:U	O3'	329:G	P	1.87
1	B	343:C	O3'	344:A	P	1.87
1	B	367:G	O3'	368:A	P	1.87

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	412:A	O3'	413:C	P	1.87
1	B	452:G	O3'	453:A	P	1.87
1	B	470:A	O3'	471:A	P	1.87
1	B	479:A	O3'	480:A	P	1.87
1	B	526:A	O3'	527:C	P	1.87
1	B	569:U	O3'	570:G	P	1.87
1	B	587:C	O3'	588:U	P	1.87
1	B	603:A	O3'	604:G	P	1.87
1	B	620:G	O3'	621:A	P	1.87
1	B	705:A	O3'	706:A	P	1.87
1	B	785:G	O3'	786:C	P	1.87
1	B	809:G	O3'	810:U	P	1.87
1	B	821:A	O3'	822:G	P	1.87
1	B	835:C	O3'	836:G	P	1.87
1	B	844:A	O3'	845:A	P	1.87
1	B	899:A	O3'	900:A	P	1.87
1	B	919:U	O3'	920:A	P	1.87
1	B	973:A	O3'	974:G	P	1.87
1	B	974:G	O3'	975:A	P	1.87
1	B	989:G	O3'	990:A	P	1.87
1	B	1012:U	O3'	1013:C	P	1.87
1	B	1043:C	O3'	1044:C	P	1.87
1	B	1046:A	O3'	1047:G	P	1.87
1	B	1126:A	O3'	1127:A	P	1.87
1	B	1212:G	O3'	1213:A	P	1.87
1	B	1234:U	O3'	1235:G	P	1.87
1	B	1252:G	O3'	1253:A	P	1.87
1	B	1272:A	O3'	1273:U	P	1.87
1	B	1298:C	O3'	1299:G	P	1.87
1	B	1299:G	O3'	1300:G	P	1.87
1	B	1320:C	O3'	1321:A	P	1.87
1	B	1324:G	O3'	1325:U	P	1.87
1	B	1384:A	O3'	1385:A	P	1.87
1	B	1474:U	O3'	1475:G	P	1.87
1	B	1516:G	O3'	1517:G	P	1.87
1	B	1527:G	O3'	1528:A	P	1.87
1	B	1569:A	O3'	1570:A	P	1.87
1	B	1570:A	O3'	1571:A	P	1.87
1	B	1606:C	O3'	1607:C	P	1.87
1	B	1639:C	O3'	1640:A	P	1.87
1	B	1651:G	O3'	1652:A	P	1.87
1	B	1654:A	O3'	1655:A	P	1.87

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1669:A	O3'	1670:C	P	1.87
1	B	1678:A	O3'	1679:A	P	1.87
1	B	1774:C	O3'	1775:U	P	1.87
1	B	1883:U	O3'	1884:G	P	1.87
1	B	1885:A	O3'	1886:U	P	1.87
1	B	1925:C	O3'	1926:U	P	1.87
1	B	1939:5MU	O3'	1940:U	P	1.87
1	B	1961:C	O3'	1962:C	P	1.87
1	B	1977:A	O3'	1978:A	P	1.87
1	B	2016:U	O3'	2017:U	P	1.87
1	B	2019:A	O3'	2020:A	P	1.87
1	B	2035:G	O3'	2036:C	P	1.87
1	B	2042:A	O3'	2043:C	P	1.87
1	B	2059:A	O3'	2060:A	P	1.87
1	B	2124:G	O3'	2125:G	P	1.87
1	B	2166:U	O3'	2167:U	P	1.87
1	B	2203:U	O3'	2204:G	P	1.87
1	B	2210:U	O3'	2211:A	P	1.87
1	B	2334:U	O3'	2335:A	P	1.87
1	B	2422:C	O3'	2423:U	P	1.87
1	B	2426:A	O3'	2427:C	P	1.87
1	B	2427:C	O3'	2428:G	P	1.87
1	B	2430:A	O3'	2431:U	P	1.87
1	B	2566:A	O3'	2567:G	P	1.87
1	B	2597:G	O3'	2598:A	P	1.87
1	B	2598:A	O3'	2599:G	P	1.87
1	B	2607:G	O3'	2608:G	P	1.87
1	B	2608:G	O3'	2609:U	P	1.87
1	B	2626:C	O3'	2627:G	P	1.87
1	B	2675:A	O3'	2676:C	P	1.87
1	B	2711:A	O3'	2712:C	P	1.87
1	B	2725:A	O3'	2726:A	P	1.87
1	B	2733:A	O3'	2734:A	P	1.87
1	B	2741:A	O3'	2742:G	P	1.87
1	B	2766:A	O3'	2767:C	P	1.87
1	B	2788:C	O3'	2789:C	P	1.87
1	B	2833:U	O3'	2834:G	P	1.87
1	B	2844:G	O3'	2845:U	P	1.87
1	B	2903:U	O3'	2904:U	P	1.87
1	B	56:A	O3'	57:C	P	1.86
1	B	63:A	O3'	64:A	P	1.86
1	B	103:A	O3'	104:A	P	1.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	113:U	O3'	114:U	P	1.86
1	B	120:U	O3'	121:G	P	1.86
1	B	167:A	O3'	168:G	P	1.86
1	B	180:G	O3'	181:A	P	1.86
1	B	201:C	O3'	202:U	P	1.86
1	B	213:A	O3'	214:G	P	1.86
1	B	215:G	O3'	216:A	P	1.86
1	B	220:G	O3'	221:A	P	1.86
1	B	222:A	O3'	223:A	P	1.86
1	B	223:A	O3'	224:U	P	1.86
1	B	233:A	O3'	234:U	P	1.86
1	B	269:C	O3'	270:A	P	1.86
1	B	346:A	O3'	347:A	P	1.86
1	B	361:G	O3'	362:A	P	1.86
1	B	399:U	O3'	400:G	P	1.86
1	B	411:G	O3'	412:A	P	1.86
1	B	442:G	O3'	443:A	P	1.86
1	B	464:U	O3'	465:G	P	1.86
1	B	482:A	O3'	483:A	P	1.86
1	B	500:G	O3'	501:A	P	1.86
1	B	505:A	O3'	506:G	P	1.86
1	B	510:C	O3'	511:U	P	1.86
1	B	527:C	O3'	528:A	P	1.86
1	B	554:U	O3'	555:G	P	1.86
1	B	563:A	O3'	564:C	P	1.86
1	B	619:G	O3'	620:G	P	1.86
1	B	677:A	O3'	678:C	P	1.86
1	B	703:U	O3'	704:G	P	1.86
1	B	704:G	O3'	705:A	P	1.86
1	B	739:A	O3'	740:C	P	1.86
1	B	783:A	O3'	784:G	P	1.86
1	B	784:G	O3'	785:G	P	1.86
1	B	800:A	O3'	801:G	P	1.86
1	B	810:U	O3'	811:U	P	1.86
1	B	820:A	O3'	821:A	P	1.86
1	B	857:G	O3'	858:G	P	1.86
1	B	858:G	O3'	859:G	P	1.86
1	B	878:A	O3'	879:G	P	1.86
1	B	909:A	O3'	910:A	P	1.86
1	B	994:C	O3'	995:C	P	1.86
1	B	1020:A	O3'	1021:A	P	1.86
1	B	1022:G	O3'	1023:U	P	1.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1027:A	O3'	1028:A	P	1.86
1	B	1031:G	O3'	1032:A	P	1.86
1	B	1186:G	O3'	1187:G	P	1.86
1	B	1209:U	O3'	1210:G	P	1.86
1	B	1254:A	O3'	1255:U	P	1.86
1	B	1300:G	O3'	1301:A	P	1.86
1	B	1310:G	O3'	1311:G	P	1.86
1	B	1312:U	O3'	1313:U	P	1.86
1	B	1370:C	O3'	1371:G	P	1.86
1	B	1377:G	O3'	1378:A	P	1.86
1	B	1417:C	O3'	1418:G	P	1.86
1	B	1444:G	O3'	1445:G	P	1.86
1	B	1455:G	O3'	1456:G	P	1.86
1	B	1476:U	O3'	1477:A	P	1.86
1	B	1490:A	O3'	1491:G	P	1.86
1	B	1515:A	O3'	1516:G	P	1.86
1	B	1520:U	O3'	1521:G	P	1.86
1	B	1552:A	O3'	1553:A	P	1.86
1	B	1558:C	O3'	1559:U	P	1.86
1	B	1579:A	O3'	1580:A	P	1.86
1	B	1601:G	O3'	1602:U	P	1.86
1	B	1613:G	O3'	1614:A	P	1.86
1	B	1646:C	O3'	1647:U	P	1.86
1	B	1671:U	O3'	1672:A	P	1.86
1	B	1672:A	O3'	1673:G	P	1.86
1	B	1686:C	O3'	1687:G	P	1.86
1	B	1803:A	O3'	1804:C	P	1.86
1	B	1891:G	O3'	1892:C	P	1.86
1	B	1926:U	O3'	1927:A	P	1.86
1	B	1932:A	O3'	1933:G	P	1.86
1	B	1955:U	O3'	1956:U	P	1.86
1	B	1964:G	O3'	1965:C	P	1.86
1	B	1966:A	O3'	1967:C	P	1.86
1	B	1968:G	O3'	1969:A	P	1.86
1	B	1990:C	O3'	1991:U	P	1.86
1	B	2086:U	O3'	2087:G	P	1.86
1	B	2125:G	O3'	2126:A	P	1.86
1	B	2129:C	O3'	2130:U	P	1.86
1	B	2143:C	O3'	2144:G	P	1.86
1	B	2199:A	O3'	2200:C	P	1.86
1	B	2202:U	O3'	2203:U	P	1.86
1	B	2253:G	O3'	2254:C	P	1.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2264:C	O3'	2265:U	P	1.86
1	B	2282:G	O3'	2283:C	P	1.86
1	B	2285:C	O3'	2286:G	P	1.86
1	B	2286:G	O3'	2287:A	P	1.86
1	B	2333:A	O3'	2334:U	P	1.86
1	B	2345:G	O3'	2346:A	P	1.86
1	B	2377:A	O3'	2378:A	P	1.86
1	B	2423:U	O3'	2424:C	P	1.86
1	B	2554:U	O3'	2555:U	P	1.86
1	B	2574:G	O3'	2575:C	P	1.86
1	B	2609:U	O3'	2610:C	P	1.86
1	B	2627:G	O3'	2628:C	P	1.86
1	B	2637:U	O3'	2638:G	P	1.86
1	B	2645:G	O3'	2646:C	P	1.86
1	B	2674:G	O3'	2675:A	P	1.86
1	B	2682:A	O3'	2683:C	P	1.86
1	B	2702:G	O3'	2703:C	P	1.86
1	B	2724:U	O3'	2725:A	P	1.86
1	B	2732:G	O3'	2733:A	P	1.86
1	B	2737:G	O3'	2738:A	P	1.86
1	B	2740:A	O3'	2741:A	P	1.86
1	B	2749:A	O3'	2750:A	P	1.86
1	B	2751:G	O3'	2752:C	P	1.86
1	B	2762:C	O3'	2763:G	P	1.86
1	B	2764:A	O3'	2765:A	P	1.86
1	B	2765:A	O3'	2766:A	P	1.86
1	B	2769:U	O3'	2770:G	P	1.86
1	B	2774:C	O3'	2775:G	P	1.86
1	B	2819:G	O3'	2820:A	P	1.86
1	B	2867:G	O3'	2868:A	P	1.86
1	B	48:G	O3'	49:A	P	1.85
1	B	90:U	O3'	91:A	P	1.85
1	B	102:U	O3'	103:A	P	1.85
1	B	117:G	O3'	118:A	P	1.85
1	B	123:G	O3'	124:G	P	1.85
1	B	140:C	O3'	141:G	P	1.85
1	B	181:A	O3'	182:A	P	1.85
1	B	182:A	O3'	183:C	P	1.85
1	B	196:A	O3'	197:A	P	1.85
1	B	232:G	O3'	233:A	P	1.85
1	B	329:G	O3'	330:A	P	1.85
1	B	359:G	O3'	360:U	P	1.85

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	362:A	O3'	363:G	P	1.85
1	B	402:A	O3'	403:U	P	1.85
1	B	421:C	O3'	422:A	P	1.85
1	B	443:A	O3'	444:C	P	1.85
1	B	454:A	O3'	455:C	P	1.85
1	B	469:G	O3'	470:A	P	1.85
1	B	480:A	O3'	481:G	P	1.85
1	B	481:G	O3'	482:A	P	1.85
1	B	491:G	O3'	492:A	P	1.85
1	B	502:A	O3'	503:A	P	1.85
1	B	507:A	O3'	508:A	P	1.85
1	B	513:A	O3'	514:A	P	1.85
1	B	532:A	O3'	533:G	P	1.85
1	B	537:G	O3'	538:A	P	1.85
1	B	624:C	O3'	625:G	P	1.85
1	B	625:G	O3'	626:A	P	1.85
1	B	675:A	O3'	676:A	P	1.85
1	B	686:U	O3'	687:C	P	1.85
1	B	732:C	O3'	733:G	P	1.85
1	B	733:G	O3'	734:A	P	1.85
1	B	778:G	O3'	779:U	P	1.85
1	B	782:A	O3'	783:A	P	1.85
1	B	788:A	O3'	789:A	P	1.85
1	B	811:U	O3'	812:C	P	1.85
1	B	866:A	O3'	867:C	P	1.85
1	B	867:C	O3'	868:U	P	1.85
1	B	895:U	O3'	896:A	P	1.85
1	B	906:U	O3'	907:G	P	1.85
1	B	911:A	O3'	912:C	P	1.85
1	B	983:A	O3'	984:A	P	1.85
1	B	1021:A	O3'	1022:G	P	1.85
1	B	1024:G	O3'	1025:G	P	1.85
1	B	1048:A	O3'	1049:C	P	1.85
1	B	1136:G	O3'	1137:G	P	1.85
1	B	1139:G	O3'	1140:C	P	1.85
1	B	1141:U	O3'	1142:A	P	1.85
1	B	1172:C	O3'	1173:U	P	1.85
1	B	1213:A	O3'	1214:A	P	1.85
1	B	1242:U	O3'	1243:C	P	1.85
1	B	1247:A	O3'	1248:G	P	1.85
1	B	1248:G	O3'	1249:U	P	1.85
1	B	1262:A	O3'	1263:U	P	1.85

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1268:A	O3'	1269:A	P	1.85
1	B	1274:A	O3'	1275:A	P	1.85
1	B	1308:A	O3'	1309:G	P	1.85
1	B	1340:U	O3'	1341:G	P	1.85
1	B	1352:U	O3'	1353:A	P	1.85
1	B	1372:U	O3'	1373:A	P	1.85
1	B	1378:A	O3'	1379:U	P	1.85
1	B	1383:A	O3'	1384:A	P	1.85
1	B	1416:G	O3'	1417:C	P	1.85
1	B	1418:G	O3'	1419:A	P	1.85
1	B	1424:G	O3'	1425:G	P	1.85
1	B	1437:C	O3'	1438:U	P	1.85
1	B	1453:A	O3'	1454:C	P	1.85
1	B	1508:A	O3'	1509:A	P	1.85
1	B	1554:U	O3'	1555:G	P	1.85
1	B	1557:C	O3'	1558:C	P	1.85
1	B	1584:U	O3'	1585:C	P	1.85
1	B	1604:C	O3'	1605:C	P	1.85
1	B	1607:C	O3'	1608:A	P	1.85
1	B	1633:G	O3'	1634:A	P	1.85
1	B	1635:A	O3'	1636:U	P	1.85
1	B	1641:A	O3'	1642:G	P	1.85
1	B	1647:U	O3'	1648:U	P	1.85
1	B	1721:G	O3'	1722:A	P	1.85
1	B	1736:U	O3'	1737:G	P	1.85
1	B	1737:G	O3'	1738:G	P	1.85
1	B	1754:A	O3'	1755:A	P	1.85
1	B	1756:G	O3'	1757:A	P	1.85
1	B	1763:G	O3'	1764:C	P	1.85
1	B	1806:C	O3'	1807:G	P	1.85
1	B	1827:U	O3'	1828:G	P	1.85
1	B	1850:G	O3'	1851:U	P	1.85
1	B	1858:A	O3'	1859:U	P	1.85
1	B	1868:C	O3'	1869:G	P	1.85
1	B	1890:A	O3'	1891:G	P	1.85
1	B	1893:C	O3'	1894:C	P	1.85
1	B	1929:G	O3'	1930:G	P	1.85
1	B	1965:C	O3'	1966:A	P	1.85
1	B	1976:U	O3'	1977:A	P	1.85
1	B	1978:A	O3'	1979:U	P	1.85
1	B	2015:A	O3'	2016:U	P	1.85
1	B	2085:U	O3'	2086:U	P	1.85

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2117:A	O3'	2118:U	P	1.85
1	B	2119:A	O3'	2120:G	P	1.85
1	B	2132:U	O3'	2133:G	P	1.85
1	B	2147:A	O3'	2148:G	P	1.85
1	B	2157:G	O3'	2158:A	P	1.85
1	B	2164:C	O3'	2165:C	P	1.85
1	B	2165:C	O3'	2166:U	P	1.85
1	B	2168:G	O3'	2169:A	P	1.85
1	B	2172:U	O3'	2173:A	P	1.85
1	B	2173:A	O3'	2174:C	P	1.85
1	B	2178:C	O3'	2179:C	P	1.85
1	B	2196:C	O3'	2197:U	P	1.85
1	B	2213:U	O3'	2214:C	P	1.85
1	B	2214:C	O3'	2215:C	P	1.85
1	B	2224:G	O3'	2225:A	P	1.85
1	B	2233:U	O3'	2234:G	P	1.85
1	B	2243:U	O3'	2244:U	P	1.85
1	B	2245:U	O3'	2246:G	P	1.85
1	B	2283:C	O3'	2284:A	P	1.85
1	B	2318:G	O3'	2319:G	P	1.85
1	B	2326:C	O3'	2327:A	P	1.85
1	B	2327:A	O3'	2328:A	P	1.85
1	B	2357:G	O3'	2358:A	P	1.85
1	B	2359:C	O3'	2360:G	P	1.85
1	B	2364:C	O3'	2365:G	P	1.85
1	B	2370:G	O3'	2371:G	P	1.85
1	B	2392:A	O3'	2393:U	P	1.85
1	B	2410:G	O3'	2411:A	P	1.85
1	B	2428:G	O3'	2429:G	P	1.85
1	B	2432:A	O3'	2433:A	P	1.85
1	B	2433:A	O3'	2434:A	P	1.85
1	B	2450:A	O3'	2451:A	P	1.85
1	B	2472:G	O3'	2473:U	P	1.85
1	B	2498:5MC	O3'	2499:C	P	1.85
1	B	2551:C	O3'	2552:U	P	1.85
1	B	2552:U	O3'	2553:G	P	1.85
1	B	2555:U	O3'	2556:C	P	1.85
1	B	2563:U	O3'	2564:A	P	1.85
1	B	2573:C	O3'	2574:G	P	1.85
1	B	2575:C	O3'	2576:G	P	1.85
1	B	2587:A	O3'	2588:G	P	1.85
1	B	2638:G	O3'	2639:A	P	1.85

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2639:A	O3'	2640:G	P	1.85
1	B	2644:G	O3'	2645:G	P	1.85
1	B	2686:G	O3'	2687:U	P	1.85
1	B	2731:G	O3'	2732:G	P	1.85
1	B	2746:U	O3'	2747:G	P	1.85
1	B	2775:G	O3'	2776:A	P	1.85
1	B	2778:A	O3'	2779:U	P	1.85
1	B	2821:A	O3'	2822:G	P	1.85
1	B	2869:G	O3'	2870:C	P	1.85
1	B	2894:G	O3'	2895:G	P	1.85
1	B	10:A	O3'	11:C	P	1.84
1	B	33:C	O3'	34:U	P	1.84
1	B	34:U	O3'	35:G	P	1.84
1	B	61:C	O3'	62:U	P	1.84
1	B	62:U	O3'	63:A	P	1.84
1	B	82:U	O3'	83:A	P	1.84
1	B	126:A	O3'	127:A	P	1.84
1	B	176:A	O3'	177:G	P	1.84
1	B	189:G	O3'	190:A	P	1.84
1	B	199:A	O3'	200:U	P	1.84
1	B	219:A	O3'	220:G	P	1.84
1	B	240:C	O3'	241:A	P	1.84
1	B	243:U	O3'	244:A	P	1.84
1	B	255:A	O3'	256:A	P	1.84
1	B	339:U	O3'	340:A	P	1.84
1	B	345:A	O3'	346:A	P	1.84
1	B	360:U	O3'	361:G	P	1.84
1	B	366:C	O3'	367:G	P	1.84
1	B	370:G	O3'	371:A	P	1.84
1	B	372:G	O3'	373:U	P	1.84
1	B	374:A	O3'	375:G	P	1.84
1	B	382:A	O3'	383:C	P	1.84
1	B	401:A	O3'	402:A	P	1.84
1	B	403:U	O3'	404:A	P	1.84
1	B	450:G	O3'	451:U	P	1.84
1	B	451:U	O3'	452:G	P	1.84
1	B	459:U	O3'	460:A	P	1.84
1	B	463:G	O3'	464:U	P	1.84
1	B	499:U	O3'	500:G	P	1.84
1	B	508:A	O3'	509:C	P	1.84
1	B	530:G	O3'	531:C	P	1.84
1	B	574:A	O3'	575:A	P	1.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	575:A	O3'	576:U	P	1.84
1	B	608:A	O3'	609:A	P	1.84
1	B	618:G	O3'	619:G	P	1.84
1	B	629:G	O3'	630:G	P	1.84
1	B	631:A	O3'	632:A	P	1.84
1	B	633:A	O3'	634:C	P	1.84
1	B	635:C	O3'	636:G	P	1.84
1	B	636:G	O3'	637:A	P	1.84
1	B	641:U	O3'	642:U	P	1.84
1	B	645:C	O3'	646:U	P	1.84
1	B	654:A	O3'	655:A	P	1.84
1	B	713:G	O3'	714:U	P	1.84
1	B	724:U	O3'	725:G	P	1.84
1	B	748:G	O3'	749:A	P	1.84
1	B	749:A	O3'	750:A	P	1.84
1	B	752:A	O3'	753:A	P	1.84
1	B	779:U	O3'	780:G	P	1.84
1	B	780:G	O3'	781:A	P	1.84
1	B	790:U	O3'	791:C	P	1.84
1	B	791:C	O3'	792:A	P	1.84
1	B	792:A	O3'	793:A	P	1.84
1	B	804:A	O3'	805:G	P	1.84
1	B	807:U	O3'	808:G	P	1.84
1	B	817:C	O3'	818:G	P	1.84
1	B	827:U	O3'	828:U	P	1.84
1	B	837:C	O3'	838:C	P	1.84
1	B	862:G	O3'	863:A	P	1.84
1	B	865:C	O3'	866:A	P	1.84
1	B	918:A	O3'	919:U	P	1.84
1	B	920:A	O3'	921:C	P	1.84
1	B	932:U	O3'	933:A	P	1.84
1	B	944:C	O3'	945:A	P	1.84
1	B	945:A	O3'	946:C	P	1.84
1	B	955:U	O3'	956:G	P	1.84
1	B	960:A	O3'	961:C	P	1.84
1	B	961:C	O3'	962:G	P	1.84
1	B	999:U	O3'	1000:A	P	1.84
1	B	1026:G	O3'	1027:A	P	1.84
1	B	1039:A	O3'	1040:A	P	1.84
1	B	1040:A	O3'	1041:G	P	1.84
1	B	1045:C	O3'	1046:A	P	1.84
1	B	1109:C	O3'	1110:G	P	1.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1127:A	O3'	1128:G	P	1.84
1	B	1135:C	O3'	1136:G	P	1.84
1	B	1140:C	O3'	1141:U	P	1.84
1	B	1153:C	O3'	1154:G	P	1.84
1	B	1188:U	O3'	1189:A	P	1.84
1	B	1202:G	O3'	1203:U	P	1.84
1	B	1205:A	O3'	1206:G	P	1.84
1	B	1210:G	O3'	1211:C	P	1.84
1	B	1236:G	O3'	1237:A	P	1.84
1	B	1267:U	O3'	1268:A	P	1.84
1	B	1284:A	O3'	1285:A	P	1.84
1	B	1285:A	O3'	1286:A	P	1.84
1	B	1339:G	O3'	1340:U	P	1.84
1	B	1351:C	O3'	1352:U	P	1.84
1	B	1353:A	O3'	1354:A	P	1.84
1	B	1359:A	O3'	1360:G	P	1.84
1	B	1363:C	O3'	1364:G	P	1.84
1	B	1364:G	O3'	1365:A	P	1.84
1	B	1379:U	O3'	1380:G	P	1.84
1	B	1389:G	O3'	1390:U	P	1.84
1	B	1390:U	O3'	1391:U	P	1.84
1	B	1392:A	O3'	1393:A	P	1.84
1	B	1393:A	O3'	1394:U	P	1.84
1	B	1394:U	O3'	1395:A	P	1.84
1	B	1397:U	O3'	1398:C	P	1.84
1	B	1434:A	O3'	1435:G	P	1.84
1	B	1459:G	O3'	1460:U	P	1.84
1	B	1460:U	O3'	1461:C	P	1.84
1	B	1469:A	O3'	1470:A	P	1.84
1	B	1496:A	O3'	1497:U	P	1.84
1	B	1497:U	O3'	1498:C	P	1.84
1	B	1509:A	O3'	1510:G	P	1.84
1	B	1513:U	O3'	1514:G	P	1.84
1	B	1525:A	O3'	1526:C	P	1.84
1	B	1533:C	O3'	1534:U	P	1.84
1	B	1543:G	O3'	1544:A	P	1.84
1	B	1551:A	O3'	1552:A	P	1.84
1	B	1597:A	O3'	1598:A	P	1.84
1	B	1602:U	O3'	1603:A	P	1.84
1	B	1603:A	O3'	1604:C	P	1.84
1	B	1605:C	O3'	1606:C	P	1.84
1	B	1632:A	O3'	1633:G	P	1.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1670:C	O3'	1671:U	P	1.84
1	B	1674:G	O3'	1675:C	P	1.84
1	B	1689:A	O3'	1690:A	P	1.84
1	B	1693:U	O3'	1694:C	P	1.84
1	B	1694:C	O3'	1695:G	P	1.84
1	B	1700:A	O3'	1701:A	P	1.84
1	B	1701:A	O3'	1702:G	P	1.84
1	B	1714:U	O3'	1715:G	P	1.84
1	B	1719:G	O3'	1720:U	P	1.84
1	B	1743:G	O3'	1744:A	P	1.84
1	B	1757:A	O3'	1758:U	P	1.84
1	B	1758:U	O3'	1759:A	P	1.84
1	B	1760:C	O3'	1761:C	P	1.84
1	B	1761:C	O3'	1762:A	P	1.84
1	B	1773:A	O3'	1774:C	P	1.84
1	B	1781:U	O3'	1782:U	P	1.84
1	B	1818:U	O3'	1819:A	P	1.84
1	B	1819:A	O3'	1820:U	P	1.84
1	B	1833:C	O3'	1834:U	P	1.84
1	B	1837:C	O3'	1838:C	P	1.84
1	B	1875:G	O3'	1876:A	P	1.84
1	B	1882:U	O3'	1883:U	P	1.84
1	B	1889:A	O3'	1890:A	P	1.84
1	B	1898:U	O3'	1899:A	P	1.84
1	B	1899:A	O3'	1900:A	P	1.84
1	B	1911:PSU	O3'	1912:A	P	1.84
1	B	1952:A	O3'	1953:A	P	1.84
1	B	1953:A	O3'	1954:G	P	1.84
1	B	1963:U	O3'	1964:G	P	1.84
1	B	1981:A	O3'	1982:U	P	1.84
1	B	1995:U	O3'	1996:C	P	1.84
1	B	2005:A	O3'	2006:C	P	1.84
1	B	2014:A	O3'	2015:A	P	1.84
1	B	2017:U	O3'	2018:G	P	1.84
1	B	2028:U	O3'	2029:G	P	1.84
1	B	2081:U	O3'	2082:A	P	1.84
1	B	2108:A	O3'	2109:U	P	1.84
1	B	2109:U	O3'	2110:G	P	1.84
1	B	2118:U	O3'	2119:A	P	1.84
1	B	2126:A	O3'	2127:G	P	1.84
1	B	2130:U	O3'	2131:U	P	1.84
1	B	2133:G	O3'	2134:A	P	1.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2134:A	O3'	2135:A	P	1.84
1	B	2163:A	O3'	2164:C	P	1.84
1	B	2171:A	O3'	2172:U	P	1.84
1	B	2211:A	O3'	2212:A	P	1.84
1	B	2223:G	O3'	2224:G	P	1.84
1	B	2226:C	O3'	2227:A	P	1.84
1	B	2244:U	O3'	2245:U	P	1.84
1	B	2250:G	O3'	2251:7MG	P	1.84
1	B	2319:G	O3'	2320:U	P	1.84
1	B	2322:A	O3'	2323:G	P	1.84
1	B	2330:G	O3'	2331:G	P	1.84
1	B	2355:G	O3'	2356:U	P	1.84
1	B	2365:G	O3'	2366:A	P	1.84
1	B	2376:A	O3'	2377:A	P	1.84
1	B	2387:U	O3'	2388:A	P	1.84
1	B	2388:A	O3'	2389:G	P	1.84
1	B	2389:G	O3'	2390:U	P	1.84
1	B	2390:U	O3'	2391:G	P	1.84
1	B	2411:A	O3'	2412:A	P	1.84
1	B	2431:U	O3'	2432:A	P	1.84
1	B	2439:A	O3'	2440:C	P	1.84
1	B	2440:C	O3'	2441:U	P	1.84
1	B	2457:U	O3'	2458:G	P	1.84
1	B	2471:A	O3'	2472:G	P	1.84
1	B	2475:C	O3'	2476:A	P	1.84
1	B	2478:A	O3'	2479:U	P	1.84
1	B	2482:A	O3'	2483:C	P	1.84
1	B	2501:C	O3'	2502:G	P	1.84
1	B	2542:A	O3'	2543:G	P	1.84
1	B	2564:A	O3'	2565:A	P	1.84
1	B	2572:A	O3'	2573:C	P	1.84
1	B	2584:U	O3'	2585:U	P	1.84
1	B	2586:U	O3'	2587:A	P	1.84
1	B	2602:A	O3'	2603:G	P	1.84
1	B	2610:C	O3'	2611:C	P	1.84
1	B	2629:U	O3'	2630:G	P	1.84
1	B	2680:U	O3'	2681:C	P	1.84
1	B	2701:U	O3'	2702:G	P	1.84
1	B	2705:A	O3'	2706:A	P	1.84
1	B	2719:G	O3'	2720:U	P	1.84
1	B	2720:U	O3'	2721:A	P	1.84
1	B	2734:A	O3'	2735:G	P	1.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2739:U	O3'	2740:A	P	1.84
1	B	2748:A	O3'	2749:A	P	1.84
1	B	2754:U	O3'	2755:C	P	1.84
1	B	2763:G	O3'	2764:A	P	1.84
1	B	2780:G	O3'	2781:A	P	1.84
1	B	2799:A	O3'	2800:A	P	1.84
1	B	2806:C	O3'	2807:U	P	1.84
1	B	2807:U	O3'	2808:G	P	1.84
1	B	2812:G	O3'	2813:A	P	1.84
1	B	2866:U	O3'	2867:G	P	1.84
1	B	2868:A	O3'	2869:G	P	1.84
1	B	2873:A	O3'	2874:C	P	1.84
1	B	2883:A	O3'	2884:U	P	1.84
1	B	2889:C	O3'	2890:G	P	1.84
1	B	2891:U	O3'	2892:G	P	1.84
1	B	2892:G	O3'	2893:A	P	1.84
1	B	49:A	O3'	50:U	P	1.83
1	B	100:U	O3'	101:A	P	1.83
1	B	124:G	O3'	125:A	P	1.83
1	B	125:A	O3'	126:A	P	1.83
1	B	137:U	O3'	138:U	P	1.83
1	B	139:U	O3'	140:C	P	1.83
1	B	159:G	O3'	160:A	P	1.83
1	B	160:A	O3'	161:A	P	1.83
1	B	161:A	O3'	162:U	P	1.83
1	B	177:G	O3'	178:G	P	1.83
1	B	195:A	O3'	196:A	P	1.83
1	B	198:C	O3'	199:A	P	1.83
1	B	225:C	O3'	226:A	P	1.83
1	B	228:C	O3'	229:C	P	1.83
1	B	231:A	O3'	232:G	P	1.83
1	B	242:G	O3'	243:U	P	1.83
1	B	246:C	O3'	247:G	P	1.83
1	B	247:G	O3'	248:G	P	1.83
1	B	249:C	O3'	250:G	P	1.83
1	B	250:G	O3'	251:A	P	1.83
1	B	307:G	O3'	308:G	P	1.83
1	B	308:G	O3'	309:A	P	1.83
1	B	309:A	O3'	310:A	P	1.83
1	B	332:A	O3'	333:G	P	1.83
1	B	338:G	O3'	339:U	P	1.83
1	B	384:A	O3'	385:C	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	386:G	O3'	387:U	P	1.83
1	B	387:U	O3'	388:G	P	1.83
1	B	388:G	O3'	389:G	P	1.83
1	B	389:G	O3'	390:U	P	1.83
1	B	405:U	O3'	406:G	P	1.83
1	B	422:A	O3'	423:A	P	1.83
1	B	445:C	O3'	446:G	P	1.83
1	B	446:G	O3'	447:A	P	1.83
1	B	453:A	O3'	454:A	P	1.83
1	B	455:C	O3'	456:C	P	1.83
1	B	457:A	O3'	458:G	P	1.83
1	B	462:C	O3'	463:G	P	1.83
1	B	465:G	O3'	466:A	P	1.83
1	B	466:A	O3'	467:G	P	1.83
1	B	468:G	O3'	469:G	P	1.83
1	B	471:A	O3'	472:A	P	1.83
1	B	489:G	O3'	490:C	P	1.83
1	B	504:A	O3'	505:A	P	1.83
1	B	512:G	O3'	513:A	P	1.83
1	B	528:A	O3'	529:A	P	1.83
1	B	531:C	O3'	532:A	P	1.83
1	B	544:C	O3'	545:U	P	1.83
1	B	545:U	O3'	546:U	P	1.83
1	B	546:U	O3'	547:A	P	1.83
1	B	555:G	O3'	556:A	P	1.83
1	B	560:C	O3'	561:G	P	1.83
1	B	562:U	O3'	563:A	P	1.83
1	B	576:U	O3'	577:G	P	1.83
1	B	577:G	O3'	578:G	P	1.83
1	B	584:C	O3'	585:G	P	1.83
1	B	611:C	O3'	612:G	P	1.83
1	B	612:G	O3'	613:A	P	1.83
1	B	613:A	O3'	614:A	P	1.83
1	B	614:A	O3'	615:U	P	1.83
1	B	615:U	O3'	616:A	P	1.83
1	B	630:G	O3'	631:A	P	1.83
1	B	632:A	O3'	633:A	P	1.83
1	B	643:A	O3'	644:A	P	1.83
1	B	646:U	O3'	647:G	P	1.83
1	B	655:A	O3'	656:G	P	1.83
1	B	712:G	O3'	713:G	P	1.83
1	B	714:U	O3'	715:A	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	715:A	O3'	716:A	P	1.83
1	B	716:A	O3'	717:C	P	1.83
1	B	725:G	O3'	726:G	P	1.83
1	B	727:A	O3'	728:G	P	1.83
1	B	738:G	O3'	739:A	P	1.83
1	B	751:A	O3'	752:A	P	1.83
1	B	781:A	O3'	782:A	P	1.83
1	B	789:A	O3'	790:U	P	1.83
1	B	806:C	O3'	807:U	P	1.83
1	B	819:A	O3'	820:A	P	1.83
1	B	826:U	O3'	827:U	P	1.83
1	B	829:A	O3'	830:G	P	1.83
1	B	836:G	O3'	837:C	P	1.83
1	B	864:G	O3'	865:C	P	1.83
1	B	870:U	O3'	871:U	P	1.83
1	B	875:G	O3'	876:C	P	1.83
1	B	885:C	O3'	886:A	P	1.83
1	B	886:A	O3'	887:U	P	1.83
1	B	887:U	O3'	888:C	P	1.83
1	B	888:C	O3'	889:C	P	1.83
1	B	889:C	O3'	890:C	P	1.83
1	B	900:A	O3'	901:C	P	1.83
1	B	914:G	O3'	915:C	P	1.83
1	B	942:G	O3'	943:A	P	1.83
1	B	943:A	O3'	944:C	P	1.83
1	B	956:G	O3'	957:C	P	1.83
1	B	978:G	O3'	979:A	P	1.83
1	B	979:A	O3'	980:A	P	1.83
1	B	980:A	O3'	981:A	P	1.83
1	B	1000:A	O3'	1001:A	P	1.83
1	B	1001:A	O3'	1002:G	P	1.83
1	B	1025:G	O3'	1026:G	P	1.83
1	B	1038:G	O3'	1039:A	P	1.83
1	B	1121:C	O3'	1122:G	P	1.83
1	B	1129:A	O3'	1130:U	P	1.83
1	B	1154:G	O3'	1155:A	P	1.83
1	B	1173:U	O3'	1174:U	P	1.83
1	B	1174:U	O3'	1175:A	P	1.83
1	B	1175:A	O3'	1176:U	P	1.83
1	B	1187:G	O3'	1188:U	P	1.83
1	B	1203:U	O3'	1204:A	P	1.83
1	B	1204:A	O3'	1205:A	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1211:C	O3'	1212:G	P	1.83
1	B	1214:A	O3'	1215:G	P	1.83
1	B	1225:G	O3'	1226:A	P	1.83
1	B	1249:U	O3'	1250:G	P	1.83
1	B	1263:U	O3'	1264:A	P	1.83
1	B	1264:A	O3'	1265:A	P	1.83
1	B	1265:A	O3'	1266:G	P	1.83
1	B	1266:G	O3'	1267:U	P	1.83
1	B	1275:A	O3'	1276:A	P	1.83
1	B	1282:U	O3'	1283:G	P	1.83
1	B	1287:A	O3'	1288:G	P	1.83
1	B	1328:A	O3'	1329:U	P	1.83
1	B	1341:G	O3'	1342:A	P	1.83
1	B	1354:A	O3'	1355:G	P	1.83
1	B	1357:C	O3'	1358:G	P	1.83
1	B	1358:G	O3'	1359:A	P	1.83
1	B	1365:A	O3'	1366:A	P	1.83
1	B	1366:A	O3'	1367:A	P	1.83
1	B	1367:A	O3'	1368:G	P	1.83
1	B	1371:G	O3'	1372:U	P	1.83
1	B	1391:U	O3'	1392:A	P	1.83
1	B	1396:U	O3'	1397:U	P	1.83
1	B	1433:A	O3'	1434:A	P	1.83
1	B	1438:U	O3'	1439:A	P	1.83
1	B	1457:U	O3'	1458:U	P	1.83
1	B	1477:A	O3'	1478:G	P	1.83
1	B	1489:C	O3'	1490:A	P	1.83
1	B	1492:G	O3'	1493:C	P	1.83
1	B	1493:C	O3'	1494:A	P	1.83
1	B	1494:A	O3'	1495:A	P	1.83
1	B	1495:A	O3'	1496:A	P	1.83
1	B	1514:G	O3'	1515:A	P	1.83
1	B	1523:U	O3'	1524:G	P	1.83
1	B	1526:C	O3'	1527:G	P	1.83
1	B	1535:A	O3'	1536:C	P	1.83
1	B	1536:C	O3'	1537:G	P	1.83
1	B	1537:G	O3'	1538:G	P	1.83
1	B	1544:A	O3'	1545:A	P	1.83
1	B	1560:G	O3'	1561:C	P	1.83
1	B	1580:A	O3'	1581:G	P	1.83
1	B	1581:G	O3'	1582:C	P	1.83
1	B	1614:A	O3'	1615:C	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1615:C	O3'	1616:A	P	1.83
1	B	1618:1MA	O3'	1619:G	P	1.83
1	B	1631:G	O3'	1632:A	P	1.83
1	B	1634:A	O3'	1635:A	P	1.83
1	B	1652:A	O3'	1653:G	P	1.83
1	B	1653:G	O3'	1654:A	P	1.83
1	B	1655:A	O3'	1656:C	P	1.83
1	B	1664:A	O3'	1665:A	P	1.83
1	B	1675:C	O3'	1676:A	P	1.83
1	B	1677:A	O3'	1678:A	P	1.83
1	B	1680:U	O3'	1681:G	P	1.83
1	B	1687:G	O3'	1688:U	P	1.83
1	B	1688:U	O3'	1689:A	P	1.83
1	B	1691:C	O3'	1692:U	P	1.83
1	B	1692:U	O3'	1693:U	P	1.83
1	B	1697:G	O3'	1698:A	P	1.83
1	B	1698:A	O3'	1699:G	P	1.83
1	B	1718:G	O3'	1719:G	P	1.83
1	B	1722:A	O3'	1723:G	P	1.83
1	B	1727:C	O3'	1728:C	P	1.83
1	B	1728:C	O3'	1729:U	P	1.83
1	B	1729:U	O3'	1730:C	P	1.83
1	B	1730:C	O3'	1731:G	P	1.83
1	B	1731:G	O3'	1732:C	P	1.83
1	B	1732:C	O3'	1733:G	P	1.83
1	B	1744:A	O3'	1745:A	P	1.83
1	B	1745:A	O3'	1746:A	P	1.83
1	B	1753:G	O3'	1754:A	P	1.83
1	B	1759:A	O3'	1760:C	P	1.83
1	B	1772:A	O3'	1773:A	P	1.83
1	B	1779:U	O3'	1780:A	P	1.83
1	B	1780:A	O3'	1781:U	P	1.83
1	B	1782:U	O3'	1783:A	P	1.83
1	B	1800:C	O3'	1801:A	P	1.83
1	B	1807:G	O3'	1808:A	P	1.83
1	B	1808:A	O3'	1809:A	P	1.83
1	B	1814:G	O3'	1815:A	P	1.83
1	B	1838:C	O3'	1839:G	P	1.83
1	B	1846:G	O3'	1847:A	P	1.83
1	B	1851:U	O3'	1852:U	P	1.83
1	B	1870:C	O3'	1871:A	P	1.83
1	B	1871:A	O3'	1872:A	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1876:A	O3'	1877:A	P	1.83
1	B	1912:A	O3'	1913:A	P	1.83
1	B	1915:5MU	O3'	1916:A	P	1.83
1	B	1918:A	O3'	1919:A	P	1.83
1	B	1930:G	O3'	1931:U	P	1.83
1	B	1937:A	O3'	1938:A	P	1.83
1	B	1954:G	O3'	1955:U	P	1.83
1	B	1980:G	O3'	1981:A	P	1.83
1	B	2018:G	O3'	2019:A	P	1.83
1	B	2030:1MA	O3'	2031:A	P	1.83
1	B	2031:A	O3'	2032:G	P	1.83
1	B	2032:G	O3'	2033:A	P	1.83
1	B	2033:A	O3'	2034:U	P	1.83
1	B	2034:U	O3'	2035:G	P	1.83
1	B	2051:A	O3'	2052:A	P	1.83
1	B	2058:A	O3'	2059:A	P	1.83
1	B	2075:U	O3'	2076:U	P	1.83
1	B	2115:G	O3'	2116:G	P	1.83
1	B	2116:G	O3'	2117:A	P	1.83
1	B	2131:U	O3'	2132:U	P	1.83
1	B	2146:C	O3'	2147:A	P	1.83
1	B	2162:G	O3'	2163:A	P	1.83
1	B	2169:A	O3'	2170:A	P	1.83
1	B	2185:U	O3'	2186:G	P	1.83
1	B	2197:U	O3'	2198:A	P	1.83
1	B	2212:A	O3'	2213:U	P	1.83
1	B	2225:A	O3'	2226:C	P	1.83
1	B	2236:U	O3'	2237:G	P	1.83
1	B	2237:G	O3'	2238:G	P	1.83
1	B	2238:G	O3'	2239:G	P	1.83
1	B	2266:A	O3'	2267:A	P	1.83
1	B	2268:A	O3'	2269:G	P	1.83
1	B	2269:G	O3'	2270:A	P	1.83
1	B	2270:A	O3'	2271:G	P	1.83
1	B	2271:G	O3'	2272:U	P	1.83
1	B	2272:U	O3'	2273:A	P	1.83
1	B	2298:A	O3'	2299:U	P	1.83
1	B	2305:U	O3'	2306:C	P	1.83
1	B	2309:A	O3'	2310:C	P	1.83
1	B	2320:U	O3'	2321:U	P	1.83
1	B	2324:U	O3'	2325:G	P	1.83
1	B	2325:G	O3'	2326:C	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2350:C	O3'	2351:G	P	1.83
1	B	2351:G	O3'	2352:A	P	1.83
1	B	2361:G	O3'	2362:C	P	1.83
1	B	2391:G	O3'	2392:A	P	1.83
1	B	2429:G	O3'	2430:A	P	1.83
1	B	2474:U	O3'	2475:C	P	1.83
1	B	2480:C	O3'	2481:G	P	1.83
1	B	2481:G	O3'	2482:A	P	1.83
1	B	2499:C	O3'	2500:U	P	1.83
1	B	2528:U	O3'	2529:G	P	1.83
1	B	2529:G	O3'	2530:A	P	1.83
1	B	2531:A	O3'	2532:G	P	1.83
1	B	2532:G	O3'	2533:U	P	1.83
1	B	2533:U	O3'	2534:A	P	1.83
1	B	2565:A	O3'	2566:A	P	1.83
1	B	2582:G	O3'	2583:G	P	1.83
1	B	2596:U	O3'	2597:G	P	1.83
1	B	2643:G	O3'	2644:G	P	1.83
1	B	2681:C	O3'	2682:A	P	1.83
1	B	2685:G	O3'	2686:G	P	1.83
1	B	2687:U	O3'	2688:G	P	1.83
1	B	2688:G	O3'	2689:U	P	1.83
1	B	2703:C	O3'	2704:C	P	1.83
1	B	2704:C	O3'	2705:A	P	1.83
1	B	2738:A	O3'	2739:U	P	1.83
1	B	2747:G	O3'	2748:A	P	1.83
1	B	2755:C	O3'	2756:U	P	1.83
1	B	2770:G	O3'	2771:C	P	1.83
1	B	2776:A	O3'	2777:G	P	1.83
1	B	2777:G	O3'	2778:A	P	1.83
1	B	2779:U	O3'	2780:G	P	1.83
1	B	2789:C	O3'	2790:U	P	1.83
1	B	2790:U	O3'	2791:G	P	1.83
1	B	2796:U	O3'	2797:U	P	1.83
1	B	2797:U	O3'	2798:U	P	1.83
1	B	2798:U	O3'	2799:A	P	1.83
1	B	2805:C	O3'	2806:C	P	1.83
1	B	2808:G	O3'	2809:A	P	1.83
1	B	2822:G	O3'	2823:A	P	1.83
1	B	2823:A	O3'	2824:C	P	1.83
1	B	2824:C	O3'	2825:G	P	1.83
1	B	2826:A	O3'	2827:C	P	1.83

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2847:U	O3'	2848:G	P	1.83
1	B	2856:A	O3'	2857:G	P	1.83
1	B	2857:G	O3'	2858:C	P	1.83
1	B	2882:A	O3'	2883:A	P	1.83
1	B	2884:U	O3'	2885:G	P	1.83
1	B	2893:A	O3'	2894:G	P	1.83
1	B	12:U	O3'	13:A	P	1.82
1	B	71:A	O3'	72:U	P	1.82
1	B	127:A	O3'	128:C	P	1.82
1	B	138:U	O3'	139:U	P	1.82
1	B	162:U	O3'	163:C	P	1.82
1	B	163:C	O3'	164:C	P	1.82
1	B	164:C	O3'	165:A	P	1.82
1	B	165:A	O3'	166:U	P	1.82
1	B	178:G	O3'	179:C	P	1.82
1	B	226:A	O3'	227:A	P	1.82
1	B	244:A	O3'	245:G	P	1.82
1	B	248:G	O3'	249:C	P	1.82
1	B	251:A	O3'	252:G	P	1.82
1	B	306:U	O3'	307:G	P	1.82
1	B	340:A	O3'	341:C	P	1.82
1	B	344:A	O3'	345:A	P	1.82
1	B	371:A	O3'	372:G	P	1.82
1	B	385:C	O3'	386:G	P	1.82
1	B	390:U	O3'	391:A	P	1.82
1	B	391:A	O3'	392:U	P	1.82
1	B	434:U	O3'	435:C	P	1.82
1	B	488:G	O3'	489:G	P	1.82
1	B	490:C	O3'	491:G	P	1.82
1	B	492:A	O3'	493:G	P	1.82
1	B	506:G	O3'	507:A	P	1.82
1	B	509:C	O3'	510:C	P	1.82
1	B	536:G	O3'	537:G	P	1.82
1	B	547:A	O3'	548:G	P	1.82
1	B	548:G	O3'	549:G	P	1.82
1	B	556:A	O3'	557:C	P	1.82
1	B	561:G	O3'	562:U	P	1.82
1	B	578:G	O3'	579:G	P	1.82
1	B	616:A	O3'	617:G	P	1.82
1	B	642:U	O3'	643:A	P	1.82
1	B	644:A	O3'	645:C	P	1.82
1	B	676:A	O3'	677:A	P	1.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	717:C	O3'	718:A	P	1.82
1	B	718:A	O3'	719:C	P	1.82
1	B	726:G	O3'	727:A	P	1.82
1	B	747:5MU	O3'	748:G	P	1.82
1	B	750:A	O3'	751:A	P	1.82
1	B	818:G	O3'	819:A	P	1.82
1	B	828:U	O3'	829:A	P	1.82
1	B	890:C	O3'	891:G	P	1.82
1	B	910:A	O3'	911:A	P	1.82
1	B	913:U	O3'	914:G	P	1.82
1	B	957:C	O3'	958:U	P	1.82
1	B	958:U	O3'	959:A	P	1.82
1	B	959:A	O3'	960:A	P	1.82
1	B	982:C	O3'	983:A	P	1.82
1	B	1006:C	O3'	1007:C	P	1.82
1	B	1008:A	O3'	1009:A	P	1.82
1	B	1011:G	O3'	1012:U	P	1.82
1	B	1032:A	O3'	1033:U	P	1.82
1	B	1033:U	O3'	1034:G	P	1.82
1	B	1110:G	O3'	1111:A	P	1.82
1	B	1115:G	O3'	1116:G	P	1.82
1	B	1138:G	O3'	1139:G	P	1.82
1	B	1176:U	O3'	1177:G	P	1.82
1	B	1223:G	O3'	1224:U	P	1.82
1	B	1224:U	O3'	1225:G	P	1.82
1	B	1226:A	O3'	1227:G	P	1.82
1	B	1250:G	O3'	1251:C	P	1.82
1	B	1251:C	O3'	1252:G	P	1.82
1	B	1286:A	O3'	1287:A	P	1.82
1	B	1329:U	O3'	1330:C	P	1.82
1	B	1342:A	O3'	1343:G	P	1.82
1	B	1348:C	O3'	1349:C	P	1.82
1	B	1360:G	O3'	1361:G	P	1.82
1	B	1373:A	O3'	1374:G	P	1.82
1	B	1395:A	O3'	1396:U	P	1.82
1	B	1454:C	O3'	1455:G	P	1.82
1	B	1456:G	O3'	1457:U	P	1.82
1	B	1458:U	O3'	1459:G	P	1.82
1	B	1524:G	O3'	1525:A	P	1.82
1	B	1534:U	O3'	1535:A	P	1.82
1	B	1559:U	O3'	1560:G	P	1.82
1	B	1571:A	O3'	1572:A	P	1.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1582:C	O3'	1583:A	P	1.82
1	B	1583:A	O3'	1584:U	P	1.82
1	B	1616:A	O3'	1617:C	P	1.82
1	B	1617:C	O3'	1618:1MA	P	1.82
1	B	1690:A	O3'	1691:C	P	1.82
1	B	1713:A	O3'	1714:U	P	1.82
1	B	1720:U	O3'	1721:G	P	1.82
1	B	1755:A	O3'	1756:G	P	1.82
1	B	1762:A	O3'	1763:G	P	1.82
1	B	1783:A	O3'	1784:A	P	1.82
1	B	1801:A	O3'	1802:A	P	1.82
1	B	1809:A	O3'	1810:A	P	1.82
1	B	1815:A	O3'	1816:C	P	1.82
1	B	1839:G	O3'	1840:G	P	1.82
1	B	1913:A	O3'	1914:C	P	1.82
1	B	1917:PSU	O3'	1918:A	P	1.82
1	B	1962:C	O3'	1963:U	P	1.82
1	B	2004:G	O3'	2005:A	P	1.82
1	B	2022:U	O3'	2023:C	P	1.82
1	B	2027:G	O3'	2028:U	P	1.82
1	B	2029:G	O3'	2030:1MA	P	1.82
1	B	2114:A	O3'	2115:G	P	1.82
1	B	2144:G	O3'	2145:C	P	1.82
1	B	2145:C	O3'	2146:C	P	1.82
1	B	2170:A	O3'	2171:A	P	1.82
1	B	2179:C	O3'	2180:U	P	1.82
1	B	2184:A	O3'	2185:U	P	1.82
1	B	2198:A	O3'	2199:A	P	1.82
1	B	2232:C	O3'	2233:U	P	1.82
1	B	2251:7MG	O3'	2252:G	P	1.82
1	B	2252:G	O3'	2253:G	P	1.82
1	B	2265:U	O3'	2266:A	P	1.82
1	B	2267:A	O3'	2268:A	P	1.82
1	B	2273:A	O3'	2274:A	P	1.82
1	B	2306:C	O3'	2307:G	P	1.82
1	B	2307:G	O3'	2308:G	P	1.82
1	B	2308:G	O3'	2309:A	P	1.82
1	B	2310:C	O3'	2311:A	P	1.82
1	B	2311:A	O3'	2312:U	P	1.82
1	B	2358:A	O3'	2359:C	P	1.82
1	B	2375:G	O3'	2376:A	P	1.82
1	B	2393:U	O3'	2394:C	P	1.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2473:U	O3'	2474:U	P	1.82
1	B	2477:U	O3'	2478:A	P	1.82
1	B	2492:U	O3'	2493:U	P	1.82
1	B	2500:U	O3'	2501:C	P	1.82
1	B	2502:G	O3'	2503:A	P	1.82
1	B	2530:A	O3'	2531:A	P	1.82
1	B	2583:G	O3'	2584:U	P	1.82
1	B	2585:U	O3'	2586:U	P	1.82
1	B	2595:G	O3'	2596:U	P	1.82
1	B	2613:U	O3'	2614:A	P	1.82
1	B	2690:U	O3'	2691:C	P	1.82
1	B	2712:C	O3'	2713:U	P	1.82
1	B	2753:A	O3'	2754:U	P	1.82
1	B	2756:U	O3'	2757:A	P	1.82
1	B	2835:A	O3'	2836:U	P	1.82
1	B	2846:G	O3'	2847:U	P	1.82
1	B	2849:U	O3'	2850:A	P	1.82
1	B	2858:C	O3'	2859:G	P	1.82
1	B	2860:A	O3'	2861:U	P	1.82
1	B	2871:U	O3'	2872:A	P	1.82
1	B	2886:A	O3'	2887:A	P	1.82
1	B	2890:G	O3'	2891:U	P	1.82
1	B	83:A	O3'	84:A	P	1.81
1	B	197:A	O3'	198:C	P	1.81
1	B	227:A	O3'	228:C	P	1.81
1	B	257:C	O3'	258:G	P	1.81
1	B	337:C	O3'	338:G	P	1.81
1	B	383:C	O3'	384:A	P	1.81
1	B	400:G	O3'	401:A	P	1.81
1	B	447:A	O3'	448:U	P	1.81
1	B	529:A	O3'	530:G	P	1.81
1	B	571:U	O3'	572:A	P	1.81
1	B	572:A	O3'	573:U	P	1.81
1	B	757:G	O3'	758:C	P	1.81
1	B	763:G	O3'	764:A	P	1.81
1	B	805:G	O3'	806:C	P	1.81
1	B	863:A	O3'	864:G	P	1.81
1	B	871:U	O3'	872:U	P	1.81
1	B	876:C	O3'	877:A	P	1.81
1	B	880:G	O3'	881:G	P	1.81
1	B	898:C	O3'	899:A	P	1.81
1	B	927:A	O3'	928:A	P	1.81

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	931:U	O3'	932:U	P	1.81
1	B	984:A	O3'	985:C	P	1.81
1	B	995:C	O3'	996:A	P	1.81
1	B	1007:C	O3'	1008:A	P	1.81
1	B	1111:A	O3'	1112:G	P	1.81
1	B	1122:G	O3'	1123:C	P	1.81
1	B	1131:G	O3'	1132:U	P	1.81
1	B	1235:G	O3'	1236:G	P	1.81
1	B	1307:A	O3'	1308:A	P	1.81
1	B	1432:G	O3'	1433:A	P	1.81
1	B	1568:G	O3'	1569:A	P	1.81
1	B	1630:A	O3'	1631:G	P	1.81
1	B	1676:A	O3'	1677:A	P	1.81
1	B	1706:C	O3'	1707:G	P	1.81
1	B	1715:G	O3'	1716:U	P	1.81
1	B	1738:G	O3'	1739:A	P	1.81
1	B	1784:A	O3'	1785:A	P	1.81
1	B	1810:A	O3'	1811:G	P	1.81
1	B	1817:G	O3'	1818:U	P	1.81
1	B	1841:U	O3'	1842:G	P	1.81
1	B	1888:G	O3'	1889:A	P	1.81
1	B	1928:A	O3'	1929:G	P	1.81
1	B	2167:U	O3'	2168:G	P	1.81
1	B	2274:A	O3'	2275:C	P	1.81
1	B	2304:G	O3'	2305:U	P	1.81
1	B	2356:U	O3'	2357:G	P	1.81
1	B	2366:A	O3'	2367:G	P	1.81
1	B	2476:A	O3'	2477:U	P	1.81
1	B	2496:C	O3'	2497:A	P	1.81
1	B	2534:A	O3'	2535:G	P	1.81
1	B	2594:C	O3'	2595:G	P	1.81
1	B	2695:U	O3'	2696:U	P	1.81
1	B	2721:A	O3'	2722:G	P	1.81
1	B	2757:A	O3'	2758:A	P	1.81
1	B	2825:G	O3'	2826:A	P	1.81
1	B	2834:G	O3'	2835:A	P	1.81
1	B	2885:G	O3'	2886:A	P	1.81
1	B	141:G	O3'	142:A	P	1.80
1	B	217:A	O3'	218:A	P	1.80
1	B	472:A	O3'	473:G	P	1.80
1	B	830:G	O3'	831:G	P	1.80
1	B	981:A	O3'	982:C	P	1.80

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1010:A	O3'	1011:G	P	1.80
1	B	1281:G	O3'	1282:U	P	1.80
1	B	1344:U	O3'	1345:C	P	1.80
1	B	1452:G	O3'	1453:A	P	1.80
1	B	1553:A	O3'	1554:U	P	1.80
1	B	1564:C	O3'	1565:C	P	1.80
1	B	1585:C	O3'	1586:A	P	1.80
1	B	1699:G	O3'	1700:A	P	1.80
1	B	1712:U	O3'	1713:A	P	1.80
1	B	1872:A	O3'	1873:G	P	1.80
1	B	1886:U	O3'	1887:C	P	1.80
1	B	2013:A	O3'	2014:A	P	1.80
1	B	2275:C	O3'	2276:G	P	1.80
1	B	2371:G	O3'	2372:U	P	1.80
1	B	2614:A	O3'	2615:U	P	1.80
1	B	2810:A	O3'	2811:G	P	1.80
1	B	2859:G	O3'	2860:A	P	1.80
1	B	229:C	O3'	230:G	P	1.79
1	B	294:A	O3'	295:G	P	1.79
1	B	487:C	O3'	488:G	P	1.79
1	B	905:A	O3'	906:U	P	1.79
1	B	1309:G	O3'	1310:G	P	1.79
1	B	1900:A	O3'	1901:A	P	1.79
1	B	1902:C	O3'	1903:G	P	1.79
1	B	2135:A	O3'	2136:G	P	1.79
1	B	2352:A	O3'	2353:G	P	1.79
1	B	193:U	O3'	194:G	P	1.78
1	B	1222:U	O3'	1223:G	P	1.78
1	B	2082:A	O3'	2083:G	P	1.78
1	B	2161:C	O3'	2162:G	P	1.78
1	B	2838:G	O3'	2839:G	P	1.78
1	B	503:A	O3'	504:A	P	1.77
1	B	1261:C	O3'	1262:A	P	1.77
1	B	396:G	O3'	397:U	P	0.98