



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 09:06 AM EDT

PDB ID : 2OGN / pdb_00002ogn
Title : The crystal structure of the large ribosomal subunit from *Deinococcus radiodurans* complexed with the pleuromutilin derivative SB-280080
Authors : Davidovich, C.; Bashan, A.; Auerbach-Nevo, T.; Yonath, A.
Deposited on : 2007-01-07
Resolution : 3.56 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

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

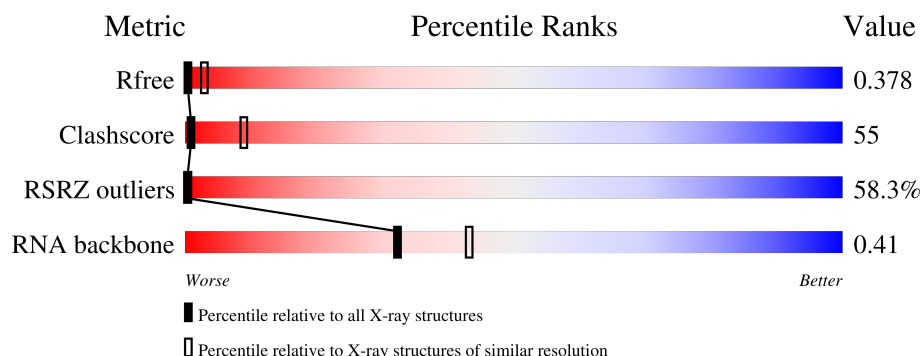
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.56 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1410 (3.62-3.50)
Clashscore	190562	1480 (3.62-3.50)
RSRZ outliers	180081	1409 (3.62-3.50)
RNA backbone	3983	1006 (4.02-3.06)

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

Mol	Chain	Length	Quality of chain
1	0	2880	53% 11% 58% 21% 5% .
2	B	211	95% 96%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 59597 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

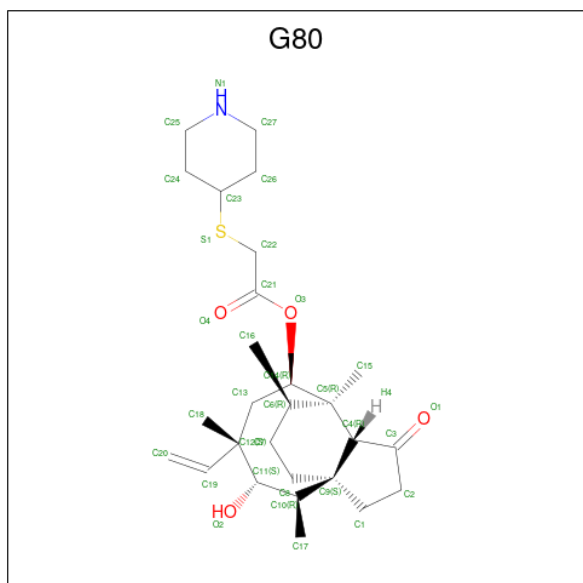
- Molecule 1 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	0	2766	Total	C	N	O	P	0	0	0
			59359	26479	10949	19166	2765			

- Molecule 2 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace
2	B	205	Total	C	0	0	205
			205	205			

- Molecule 3 is (3AS,4R,5S,6S,8R,9R,9AR,10R)-5-HYDROXY-4,6,9,10-TETRAMETHYL-1-OXO-6-VINYLDECAHYDRO-3A,9-PROPANOCYCLOPENTA[8]ANNULEN-8-YL (PIPERIDIN-4-YLTHIO)ACETATE (CCD ID: G80) (formula: C₂₇H₄₃NO₄S).

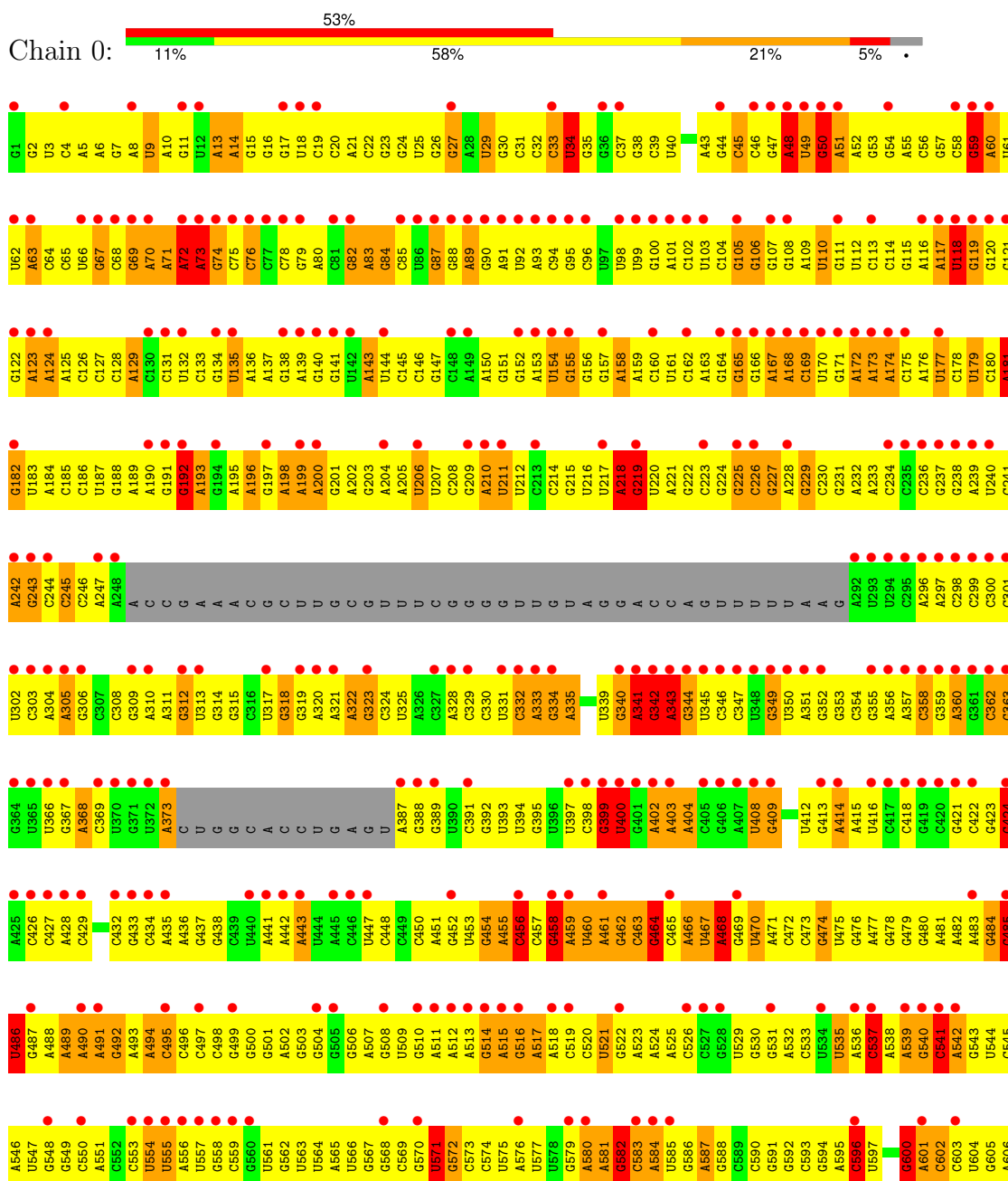


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	0	1	Total	C	N	O	S	0	0
			33	27	1	4	1		

3 Residue-property plots

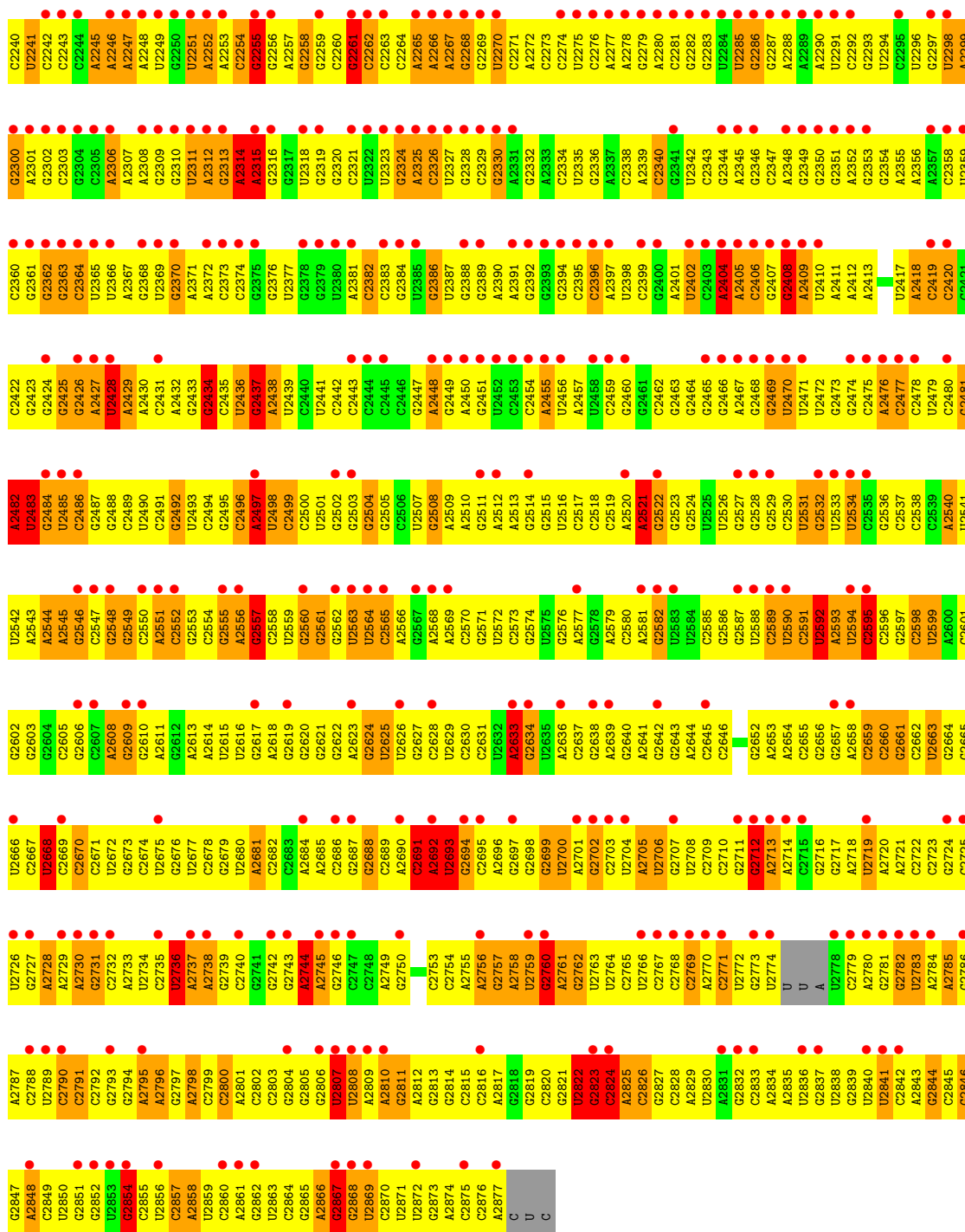
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 23S ribosomal RNA



G1388	G1399	G1337	G1273	U1213	A1153	U1092	A1032	C972	C	A848	G788	U727	U667	G687
C1399	C1400	G1338	G1274	C1214	A1154	U1093	G1033	U973	A911	G849	G789	G728	A668	G608
G1401	C1340	U1339	A1275	A1215	U1156	C1094	U1034	U974	A912	C851	A790	A729	G669	U609
G1402	G1341	C1340	U1275	G1216	U1156	A1095	G1035	C975	A913	C851	A791	C730	U670	G610
U1403	U1342	U1342	A1278	U1217	U1157	A1096	G1036	G976	C914	U852	A792	G731	A671	G611
C1404	C1343	C1343	G1279	C1218	U1158	A1097	U1037	G977	C915	C853	A793	G732	A672	G612
A1405	C1344	C1344	U1280	G1219	U1159	G1098	U1038	U978	U916	G854	A794	G733	G673	A613
A1406	C1345	C1345	A1281	G1220	C1160	A1099	A1039	A979	U917	G855	A795	G734	U674	A614
A1407	C1346	C1346	U1282	U1161	U1161	G1100	U1040	G980	A918	A856	A796	G735	G675	G615
A1408	C1347	C1347	C1283	U1162	C1162	U1101	G1041	C981	U919	G858	A797	G736	U676	G616
A1409	C1348	C1348	G1223	G1163	G1163	G1102	G1042	C982	G920	G858	A798	C737	G677	U617
U1410	C1349	C1349	A1224	G1164	G1164	C1103	A1043	G983	A921	U859	C799	G738	G678	A618
C1411	C1350	C1350	G1225	G1165	G1165	G1104	U1044	A984	U922	U860	U800	G739	C679	A619
G1412	G1351	G1351	A1226	A1166	A1166	U1105	G1045	G885	A923	G861	A801	A740	U680	G620
U1413	C1352	C1352	A1227	A1167	G1168	A1106	U1046	C986	A924	A862	A802	A741	U681	U621
G1414	C1353	C1353	G1228	G1168	U1170	U1107	G1047	G987	U925	C863	C803	G742	A683	G623
C1415	A1354	A1354	C1229	U1170	U1170	U1108	U1048	G988	C926	C864	C804	A743	G684	G624
A1416	C1355	C1355	C1230	A1171	A1171	A1109	C1049	G989	C927	A865	G805	C744	C684	A624
C1417	G1356	G1356	A1231	U1171	U1171	G1110	U1050	A990	G928	U866	A806	C745	U685	A625
G1418	U1357	U1357	U1232	U1172	U1172	C1111	U1051	A991	A929	U867	A807	G746	G686	A626
G1419	C1358	C1358	A1233	G1173	G1173	U1112	C1052	A992	A930	U871	C808	G747	G687	A627
A1420	G1359	G1359	C1234	A1174	A1174	C1113	G1053	C993	G931	U872	C809	A748	A688	A628
U1421	C1360	C1360	U1175	U1175	U1175	C1114	C1054	A994	G932	U873	U810	C749	A689	C629
C1422	G1361	G1361	G1236	U1176	U1176	C1115	A1055	C995	G933	A874	G811	C750	A690	G630
A1423	A1362	A1362	G1237	U1177	U1177	U1116	U1056	C996	G934	U875	G812	G751	C691	G631
U1424	C1363	C1363	A1238	C1178	C1178	G1117	A1057	C997	C935	G876	A813	G752	C692	A632
G1425	G1364	G1364	A1239	U1179	U1179	G1118	G1058	C998	A936	A877	G814	U753	A693	G633
U1426	C1365	C1365	G1240	A1180	A1180	U1119	A1059	C999	C937	G877	A815	G754	G694	G634
G1427	A1366	A1366	G1241	C1181	C1181	C1120	C1060	G1000	C938	C878	U816	C755	G695	C635
C1428	C1367	C1367	A1242	U1182	U1182	G1121	A1061	A1001	C939	A879	A817	C756	U696	G636
A1429	G1368	G1368	G1243	G1183	G1183	A1122	G1062	C1002	G940	C880	G818	U757	C697	G637
U1430	C1369	C1369	U1244	C1184	C1184	G1123	G1063	C1003	U941	U881	C819	G758	A698	A638
G1431	G1370	G1370	G1245	U1185	U1185	U1124	C1064	A1004	U942	C882	U820	C759	G699	G639
C1432	C1371	C1371	U1246	G1186	G1186	G1125	A1065	C1006	A944	C883	A821	U760	C700	G640
A1433	G1372	G1372	G1247	U1187	U1187	A1126	G1066	A945	C945	U885	U823	A762	A702	G641
U1434	C1373	C1373	G1248	A1188	A1188	C1127	G1067	A1007	G946	A886	U824	A763	A643	A642
G1435	G1374	G1374	G1249	U1189	U1189	G1128	A1068	G1008	U946	G887	C825	A764	G704	A644
C1436	C1375	C1375	A1250	C1190	C1190	A1129	G1069	C1009	C947	G888	U826	C765	C705	A645
G1437	G1376	G1376	G1251	G1191	G1191	U1130	U1070	A1010	C948	C889	C827	A766	A706	C646
C1438	C1377	C1377	C1252	A1192	A1192	G1131	U1071	A1011	G949	U890	C828	C767	U707	G647
G1439	G1378	G1378	G1253	G1193	G1193	C1132	U1072	A1012	C950	C891	C829	U768	G708	A648
A1440	C1379	C1379	A1254	U1194	U1194	G1133	G1073	G1013	C951	A891	C830	C769	A709	G649
U1441	G1380	G1380	U1255	U1195	U1195	C1134	G1074	A952	G952	G	G831	C710	U650	G650
C1442	C1381	C1381	C1256	G1196	G1196	U1196	C1075	U1015	G953	G	A832	G772	G711	C651
G1443	G1382	G1382	U1257	U1197	U1197	A1137	U1076	C1016	U954	G	A833	G773	A712	C652
C1444	C1383	C1383	G1258	C1198	C1198	A1138	U1077	C1017	G955	G	A834	G774	G713	C653
A1445	G1384	G1384	A1259	U1199	U1199	A1139	A1078	C1018	A956	G	U835	U775	G714	A654
U1446	C1385	C1385	G1260	G1200	G1200	A1140	G1079	U1019	C957	C	U836	G776	U715	A655
G1447	G1386	G1386	G1261	G1201	G1201	U1141	A1080	A1020	G958	C	U837	A777	U716	U656
U1447	C1387	C1387	U1262	U1202	U1202	G1142	A1081	A1021	C959	U	A838	G778	G717	A657
G1450	G1388	G1388	G1263	A1203	A1203	A1143	G1082	A1022	U960	A	U839	G779	A718	G658
U1451	C1389	C1389	C1264	G1204	G1204	U1144	C1083	U1023	C	C	U840	U779	A719	G659
C1452	C1390	C1390	G1265	G1205	G1205	A1145	A1084	G1024	A964	C	G841	U780	A720	G660
A1453	G1391	G1391	G1266	G1206	G1206	C1146	G1085	A1025	G965	A	A842	G781	C721	C661
U1454	C1392	C1392	U1267	G1207	G1207	G1147	C1086	U1026	G966	G	G843	U782	C722	G662
C1455	G1393	G1393	A1268	U1208	U1208	C1148	C1087	C1027	C967	C	G844	U783	C723	G663
G1456	C1394	C1394	G1269	G1209	G1209	G1149	A1088	G1028	C968	U	U845	U784	G724	G664
U1457	C1395	C1395	C1270	U1210	U1210	U1150	C1089	C1029	U969	A	U846	U785	C725	A665
A1458	G1396	G1396	G1271	G1211	G1211	U1151	C1090	U1030	A970	C	U847	U786	C726	U666
	C1397	C1397	G1272	U1212	U1212	C1152	C1091	C1031	A971	C	C947	A787		

U2180	A2181	C2120	U2000	G1880	G1760	A1699	U1639	G1579	G1519	U1459
A2182	C2061	U2121	G2001	U1881	G1761	C1700	C1640	C1580	G1520	G1460
C2183	U2082	G2122	A2002	G1882	G1762	C1701	G1641	A1581	U1521	C1461
C2184	A2063	G2123	A2003	G1883	G1763	C1702	G1642	C1582	C1522	C1462
U2185	U2064	C2124	U2004	A1884	C1764	G1703	A1643	G1583	A1523	A1463
G2186	A2065	C2125	C2005	G1885	C1765	C1704	G1644	G1584	C1524	A1464
A2187	G2066	U	G2006	G1886	U1766	U1705	U1645	A1585	A1525	G1465
U	U2067	G1947	G2007	G1887	G1767	A1706	U1646	A1586	U1526	C1466
U	C2068	G1948	C2008	C1888	U1768	A1707	U1647	A1587	U1527	A1467
A2189	U2069	A1949	U2009	G1889	U1769	C1708	A1648	A1468	C1528	U1468
A2190	G2070	C1950	G2010	G1890	U1770	U1709	A1649	U1469	C1529	U1469
A2191	G2071	G1951	U2011	G1891	A1771	C1710	A1650	G1590	U1530	G1470
A2192	C2072	A1952	A2012	G1892	C1772	C1711	U1651	U1591	C1531	G1471
A2013	A2073	A1953	A2013	G1893	C1773	G1712	G1652	U1592	A1532	C1472
U2074	U2074	A1954	A2014	G1894	A1774	G1713	G1653	C1593	G1533	A1473
U2075	U2075	A1955	G2015	A1895	A1775	A1714	A1654	U1594	A1534	U1474
G2076	G2076	G1956	A2016	A1896	A1776	G1715	G1655	A1595	G1535	A1475
U2197	G2077	C1957	C2017	C1897	A1777	G1716	U1656	A1596	G1536	G1476
U2198	G2078	G1958	G2018	G1898	U1778	A1717	A1657	A1597	U1537	C1477
C2199	C2019	U1959	C2019	A1899	C1779	A1718	A1658	C1598	A1538	U1478
G2200	U2080	A1960	G2020	U1900	C1780	G1719	G1659	U1599	U1539	U1479
G2201	G2081	A1961	G2021	A1901	C1781	G1720	G1660	G1600	C1540	G1480
G2202	C2082	C1962	C2022	A1902	A1782	G1721	C1661	U1601	G1541	U1481
G2203	G2083	G1963	C2023	G1903	C1783	G1722	G1662	G1602	G1542	U1482
A2204	G2084	A1964	U2024	C1904	C1784	U1723	G1663	A1603	G1543	G1483
C2205	G2085	U1965	A2025	G1905	A1785	C1724	G1664	A1604	A1544	G1484
C2206	U2086	C1966	A2026	A1906	C1786	G1725	C1665	A1605	G1545	U1485
G2207	U2087	U1967	C2027	C1907	U1787	C1726	G1666	C1606	C1546	A1486
U2208	G2088	G1968	G2028	C1908	U1788	C1727	A1667	A1607	U1547	A1487
G2209	C2089	G1969	G2029	U1909	U1789	A1728	G1668	U1608	U1548	G1488
C2210	U2090	C1970	U2030	A1910	G1790	C1729	A1669	G1609	C1549	C1489
C2211	C2091	C1971	A2031	A1911	C1791	G1730	C1670	A1610	C1550	U1490
U2212	U2092	G1972	G2032	G1912	C1792	C1731	A1671	U1611	U1551	C1491
G2213	A2093	C1973	A2033	A1913	A1793	U1732	C1672	U1612	C1552	A1492
G2214	C2094	U1974	A2034	G1914	C1794	U1733	A1673	G1613	G1553	A1493
C2215	G2095	G1975	G2035	A1915	C1795	C1734	C1674	G1614	G1554	G1494
U	U2096	U1976	G2036	G1916	U1796	G1735	C1675	C1615	A1555	G1495
C2157	A2097	C1977	A2037	C1917	C1797	C1736	U1676	C1616	A1556	G1496
C2158	G	U1978	C2038	G1918	G1798	G1737	C1677	G1617	G1557	C1497
A2159	G	C1979	G2039	A1919	A1799	U1738	G1678	U1618	C1558	G1498
C2160	A	A1980	A2040	A1920	A1800	U1679	A1679	A1619	G1559	A1499
C2161	U	A1981	A2041	A1921	C1801	U1680	U1680	C1620	A1560	U1500
C2162	A	C1982	A2042	U1922	A1802	G1742	A1681	C1621	A1561	C1501
U2163	G2103	G1983	A2043	U1923	G1803	C1743	A1682	G1622	G1562	G1502
G2164	G2104	A1984	G2044	C1924	U1804	G1744	G1683	C1623	U1563	G1503
A2165	U2105	G1985	A2045	C1925	G1805	G1745	A1684	A1624	U1564	G1504
G2166	G2106	G1986	C2046	U1926	A1746	A1746	A1685	A1625	G1565	U1505
G2167	G2107	G1987	A2047	U1927	G1747	G1747	A1686	A1626	G1566	C1506
A2168	G2108	G1988	C2048	G1928	U1748	U1748	C1687	G1627	A1567	A1507
C2169	A2109	C1989	C2049	U1929	G1749	G1749	U1688	C1628	A1568	G1508
C2170	G2110	U1990	G2050	C1930	U1870	A1750	U1689	G1629	A1569	A1509
U2171	C	C1991	U2051	G1931	A1871	A1751	U1690	A1630	C1570	A1510
U2172	U	G1992	G2052	U1932	A1872	U1752	C1691	G1631	G1571	A1511
C2213	C	G1993	G2053	G1933	A1873	A1753	G1692	A1632	C1572	A1512
G2174	G	U1994	A2054	U1934	G1874	G1754	A1693	G1633	G1573	U1513
G2175	C	G1995	G2055	A1935	G1875	G1755	A1694	A1634	A1574	C1514
U2176	G	A1996	C2056	A1936	C1876	C1756	U1695	C1635	C1575	U1515
A2117	A2117	A1997	C2057	G1937	C1877	C1757	U1696	U1636	G1576	A1516
U2178	A2118	A1998	U2058	U1938	C1878	C1758	U1697	G1637	G1577	C1517
C2179	A2119	U1999	U2059	U1939	G1879	A1759	C1698	G1638	U1578	C1518



L81	M121	K61
V184	F122	P62
K185	A123	M63
G186	G124	O64
A187	G125	G65
I188	P126	H66
P189	A127	F67
G190	S128	A68
M191	H129	K69
M192	G130	A70
G193	S131	C71
G194	K132	T72
L195	K133	A73
V196	M134	F74
V197	H135	T75
L198	R136	R76
R199	L137	I77
S200	P138	L78
A201	G139	R79
A202	S140	E80
K203	I141	F81
A204	D142	B82
S205	G143	G83
ALA	R144	F84
ALA	K145	A85
LYS	T146	P86
GLY	P147	D87
GLY	G148	G88
LYS	R149	D89
	V150	S90
	V151	V91
	K152	N92
	G153	V93
	K154	D94
	R155	I95
	M156	F96
	A157	A97
	H158	E98
	H159	G99
	M160	E100
	G161	K101
	M162	I102
	E163	D103
	R164	A104
	V165	T105
	T166	G106
	V167	T107
	Q168	S108
	M169	K109
	L170	G110
	E171	K111
	V172	G112
	V173	T113
	E174	Q114
	I175	G115
	R176	V116
	A177	M117
	G178	K118
	E179	R119
	N180	H120

4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	170.47Å 412.74Å 696.67Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.96 – 3.56 29.96 – 3.56	Depositor EDS
% Data completeness (in resolution range)	90.5 (29.96-3.56) 90.4 (29.96-3.56)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 3.56Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.276 , 0.338 0.359 , 0.378	Depositor DCC
R_{free} test set	13101 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	97.3	Xtriage
Anisotropy	0.737	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.16 , 89.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.80	EDS
Total number of atoms	59597	wwPDB-VP
Average B, all atoms (Å ²)	92.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.23% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: G80

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	0	0.46	0/66467	0.87	193/103673 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	158

There are no bond length outliers.

All (193) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	0	985	G	N9-C1'-C2'	10.45	127.68	112.00
1	0	1975	G	C2'-C3'-O3'	10.35	125.03	109.50
1	0	1342	U	N1-C1'-C2'	9.26	127.89	114.00
1	0	956	A	C2'-C3'-O3'	9.16	123.23	109.50
1	0	813	A	N9-C1'-C2'	8.76	125.15	112.00
1	0	2497	A	N9-C1'-C2'	8.74	127.12	114.00
1	0	682	G	C2'-C3'-O3'	-8.74	100.60	113.70
1	0	1407	G	N9-C1'-C2'	8.68	125.01	112.00
1	0	814	G	C2'-C3'-O3'	8.48	122.22	109.50
1	0	788	G	N9-C1'-C2'	8.47	124.71	112.00
1	0	2217	G	C2'-C3'-O3'	-8.44	101.04	113.70
1	0	2237	C	C4'-C3'-O3'	-8.43	100.35	113.00
1	0	795	A	C2'-C3'-O3'	-8.24	97.14	109.50
1	0	1266	G	C2'-C3'-O3'	8.18	121.76	109.50
1	0	1975	G	N9-C1'-C2'	8.12	126.19	114.00
1	0	2660	C	N1-C1'-C2'	8.06	126.09	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	843	G	N9-C1'-C2'	7.82	123.73	112.00
1	0	1410	U	N1-C1'-C2'	7.82	123.73	112.00
1	0	2034	A	N9-C1'-C2'	7.78	123.67	112.00
1	0	1979	C	N1-C1'-C2'	7.65	123.48	112.00
1	0	818	G	C4'-C3'-O3'	-7.64	101.54	113.00
1	0	804	C	N1-C1'-C2'	7.60	125.40	114.00
1	0	458	G	C2'-C3'-O3'	7.54	120.81	109.50
1	0	2795	A	C4'-C3'-O3'	-7.54	101.70	113.00
1	0	1685	A	C3'-C2'-O2'	-7.32	99.72	110.70
1	0	522	G	C4'-C3'-O3'	-7.28	102.09	113.00
1	0	1279	G	C2'-C3'-O3'	7.20	120.30	109.50
1	0	2854	G	C4'-C3'-O3'	-7.19	102.21	113.00
1	0	871	U	N1-C1'-C2'	7.19	122.78	112.00
1	0	840	U	C2'-C3'-O3'	-7.18	102.93	113.70
1	0	1791	C	C2'-C3'-O3'	7.15	120.23	109.50
1	0	400	U	N1-C1'-C2'	7.05	122.58	112.00
1	0	1279	G	N9-C1'-C2'	7.05	124.57	114.00
1	0	2824	C	C2'-C3'-O3'	7.00	120.00	109.50
1	0	123	A	N9-C1'-C2'	6.97	122.46	112.00
1	0	571	U	N1-C1'-C2'	6.94	124.41	114.00
1	0	1167	A	C4'-C3'-O3'	-6.93	102.60	113.00
1	0	1278	A	N9-C1'-C2'	6.92	124.39	114.00
1	0	1167	A	N9-C1'-C2'	6.88	122.32	112.00
1	0	1723	U	N1-C1'-C2'	6.80	122.20	112.00
1	0	2823	G	N9-C1'-C2'	6.78	124.17	114.00
1	0	1774	A	C2'-C3'-O3'	-6.71	103.63	113.70
1	0	177	U	N1-C1'-C2'	6.70	122.06	112.00
1	0	2050	G	C2'-C3'-O3'	-6.68	99.48	109.50
1	0	2659	C	C4'-C3'-O3'	-6.66	103.01	113.00
1	0	1249	G	C2'-C3'-O3'	6.63	119.44	109.50
1	0	1685	A	N9-C1'-C2'	6.57	121.86	112.00
1	0	2476	A	C4'-C3'-O3'	-6.56	103.16	113.00
1	0	1771	A	N9-C1'-C2'	6.53	121.80	112.00
1	0	73	A	C2'-C3'-O3'	6.53	119.30	109.50
1	0	993	C	N1-C1'-C2'	6.49	121.74	112.00
1	0	600	G	N9-C1'-C2'	6.47	121.70	112.00
1	0	683	A	C2'-C3'-O3'	-6.44	99.84	109.50
1	0	1716	G	N9-C1'-C2'	6.44	123.66	114.00
1	0	1684	G	C2'-C3'-O3'	6.40	119.11	109.50
1	0	1685	A	C4'-C3'-O3'	-6.40	103.40	113.00
1	0	1280	U	N1-C1'-C2'	6.40	121.59	112.00
1	0	794	A	C4'-C3'-O3'	-6.37	103.44	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	1325	U	C2'-C3'-O3'	6.37	119.05	109.50
1	0	2699	G	C4'-C3'-O3'	-6.34	103.49	113.00
1	0	2692	A	N9-C1'-C2'	-6.26	102.61	112.00
1	0	777	A	C2'-C3'-O3'	6.20	118.80	109.50
1	0	2437	G	C2'-C3'-O3'	-6.19	104.42	113.70
1	0	1333	G	C4'-C3'-O3'	-6.17	103.75	113.00
1	0	1723	U	C4'-C3'-O3'	-6.14	103.79	113.00
1	0	2521	A	N9-C1'-C2'	6.10	123.15	114.00
1	0	1811	A	N9-C1'-C2'	6.08	121.12	112.00
1	0	2434	G	N9-C1'-C2'	6.06	121.09	112.00
1	0	2237	C	N1-C1'-C2'	6.05	121.08	112.00
1	0	938	G	N9-C1'-C2'	6.04	121.07	112.00
1	0	1278	A	C2'-C3'-O3'	6.04	118.57	109.50
1	0	2029	G	C2'-C3'-O3'	-6.02	104.67	113.70
1	0	839	U	C2'-C3'-O3'	-5.98	104.73	113.70
1	0	2408	G	C4'-C3'-O3'	-5.97	104.04	113.00
1	0	1036	G	N9-C1'-C2'	5.95	120.92	112.00
1	0	1670	G	N9-C1'-C2'	5.92	122.88	114.00
1	0	1337	G	N9-C1'-C2'	5.92	122.88	114.00
1	0	1223	G	C2'-C3'-O3'	5.86	118.29	109.50
1	0	2013	A	C4'-C3'-O3'	-5.85	104.23	113.00
1	0	1473	U	C4'-C3'-O3'	-5.84	104.24	113.00
1	0	312	G	C4'-C3'-O3'	-5.83	104.26	113.00
1	0	399	G	C4'-C3'-O3'	-5.83	104.26	113.00
1	0	1337	G	C3'-C2'-O2'	-5.82	105.87	114.60
1	0	1459	U	N1-C1'-C2'	5.82	120.73	112.00
1	0	2668	U	N1-C1'-C2'	5.81	122.72	114.00
1	0	789	G	C5'-C4'-C3'	5.81	123.92	115.20
1	0	699	G	N9-C1'-C2'	5.80	122.71	114.00
1	0	1669	A	C4'-C3'-O3'	-5.78	104.34	113.00
1	0	2624	G	C4'-C3'-O3'	-5.77	104.35	113.00
1	0	541	C	C1'-O4'-C4'	-5.76	104.14	109.90
1	0	2660	C	C2'-C3'-O3'	5.72	118.08	109.50
1	0	2018	G	C2'-C3'-O3'	5.71	118.07	109.50
1	0	700	C	N1-C1'-C2'	5.70	120.55	112.00
1	0	2693	U	C4'-C3'-O3'	-5.69	100.86	109.40
1	0	984	A	N9-C1'-C2'	5.68	120.52	112.00
1	0	2795	A	N9-C1'-C2'	5.67	120.51	112.00
1	0	468	A	N9-C1'-C2'	5.67	122.50	114.00
1	0	1922	U	C4'-C3'-O3'	-5.66	104.52	113.00
1	0	2004	U	C2'-C3'-O3'	5.65	117.98	109.50
1	0	34	U	N1-C1'-C2'	5.65	122.48	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	2598	C	C5'-C4'-C3'	-5.64	107.53	116.00
1	0	613	A	C2'-C3'-O3'	-5.63	105.25	113.70
1	0	59	G	N9-C1'-C2'	5.63	120.44	112.00
1	0	1963	G	C2'-C3'-O3'	5.62	117.93	109.50
1	0	1266	G	N9-C1'-C2'	5.59	122.39	114.00
1	0	1626	A	C4'-C3'-O3'	-5.59	101.02	109.40
1	0	2013	A	C2'-C3'-O3'	5.59	122.08	113.70
1	0	596	C	N1-C1'-C2'	5.58	122.36	114.00
1	0	312	G	N9-C1'-C2'	5.57	120.36	112.00
1	0	2330	G	C4'-C3'-O3'	-5.57	104.65	113.00
1	0	341	A	N9-C1'-C2'	5.56	120.35	112.00
1	0	485	G	C2'-C3'-O3'	5.56	117.84	109.50
1	0	1137	A	C2'-C3'-O3'	-5.56	105.36	113.70
1	0	218	A	C2'-C3'-O3'	5.55	117.83	109.50
1	0	1921	A	C5'-C4'-C3'	5.53	123.50	115.20
1	0	2712	G	C4'-C3'-O3'	-5.52	104.72	113.00
1	0	2497	A	C2'-C3'-O3'	-5.52	101.23	109.50
1	0	2846	G	C4'-C3'-O3'	-5.50	104.74	113.00
1	0	1409	U	C2'-C3'-O3'	-5.50	105.45	113.70
1	0	342	G	C2'-C3'-O3'	5.49	117.74	109.50
1	0	72	A	C2'-C3'-O3'	-5.49	105.46	113.70
1	0	1477	C	C4'-C3'-O3'	-5.49	104.77	113.00
1	0	972	C	C2'-C3'-O3'	5.49	117.73	109.50
1	0	1398	G	N9-C1'-C2'	5.49	120.23	112.00
1	0	2660	C	C4'-C3'-O3'	-5.48	101.19	109.40
1	0	2598	C	C4'-C3'-O3'	-5.46	104.82	113.00
1	0	1267	A	C2'-C3'-O3'	-5.43	105.55	113.70
1	0	1771	A	C4'-C3'-O3'	-5.43	104.85	113.00
1	0	2059	U	C3'-C2'-O2'	5.43	118.84	110.70
1	0	123	A	C4'-C3'-O3'	-5.42	104.86	113.00
1	0	683	A	C1'-C2'-O2'	-5.42	103.67	111.80
1	0	1684	G	O4'-C1'-C2'	5.42	111.22	105.80
1	0	1777	A	C4'-C3'-O3'	-5.41	101.29	109.40
1	0	2314	A	N9-C1'-C2'	5.40	122.10	114.00
1	0	2557	G	C4'-C3'-O3'	-5.39	104.91	113.00
1	0	2596	C	C4'-C3'-O3'	-5.39	104.92	113.00
1	0	2428	U	N1-C1'-C2'	5.38	122.07	114.00
1	0	1300	A	C2'-C3'-O3'	-5.38	105.64	113.70
1	0	2404	A	C5'-C4'-C3'	5.37	123.25	115.20
1	0	2633	A	C4'-C3'-O3'	5.37	117.45	109.40
1	0	751	G	C4'-C3'-O3'	-5.35	104.97	113.00
1	0	1749	G	C4'-C3'-O3'	-5.34	101.39	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	2822	U	C2'-C3'-O3'	-5.34	105.69	113.70
1	0	1744	G	C2'-C3'-O3'	-5.33	105.70	113.70
1	0	192	G	C2'-C3'-O3'	5.33	117.50	109.50
1	0	843	G	C4'-C3'-O3'	-5.33	105.01	113.00
1	0	1309	G	C2'-C3'-O3'	-5.33	105.71	113.70
1	0	1937	G	N9-C1'-C2'	5.32	119.98	112.00
1	0	219	G	N9-C1'-C2'	5.32	121.98	114.00
1	0	341	A	C4'-C3'-O3'	-5.31	105.03	113.00
1	0	2760	G	C2'-C3'-O3'	5.30	117.45	109.50
1	0	813	A	C4'-C3'-O3'	-5.28	105.08	113.00
1	0	776	G	C4'-C3'-O3'	-5.28	105.09	113.00
1	0	332	C	C4'-C3'-O3'	-5.27	105.10	113.00
1	0	2848	A	N9-C1'-C2'	5.26	121.89	114.00
1	0	1139	A	N9-C1'-C2'	5.26	119.89	112.00
1	0	424	G	N9-C1'-C2'	5.25	119.88	112.00
1	0	2691	C	N1-C1'-C2'	5.24	119.87	112.00
1	0	689	A	C2'-C3'-O3'	-5.24	105.84	113.70
1	0	2744	A	C3'-C2'-O2'	5.24	118.55	110.70
1	0	765	C	N1-C1'-C2'	5.23	119.85	112.00
1	0	1691	G	O4'-C1'-C2'	5.22	111.02	105.80
1	0	343	A	N9-C1'-C2'	5.22	119.82	112.00
1	0	842	A	C2'-C3'-O3'	-5.22	105.88	113.70
1	0	48	A	C2'-C3'-O3'	-5.21	105.88	113.70
1	0	1670	G	C1'-C2'-O2'	-5.19	104.02	111.80
1	0	1033	G	C2'-C3'-O3'	5.18	117.27	109.50
1	0	2692	A	C3'-C2'-O2'	5.18	118.46	110.70
1	0	747	A	C5'-C4'-C3'	5.17	123.75	116.00
1	0	2034	A	C2'-C3'-O3'	-5.16	105.96	113.70
1	0	795	A	O4'-C1'-C2'	5.16	110.96	105.80
1	0	805	G	C4'-C3'-O3'	5.15	117.13	109.40
1	0	2663	U	C5'-C4'-C3'	-5.15	108.28	116.00
1	0	1680	U	C3'-C2'-O2'	5.15	118.42	110.70
1	0	198	A	C4'-C3'-O3'	-5.14	105.30	113.00
1	0	2370	G	N9-C1'-C2'	5.13	119.70	112.00
1	0	612	G	C4'-C3'-O3'	-5.12	105.32	113.00
1	0	2330	G	N9-C1'-C2'	5.11	119.67	112.00
1	0	464	G	C4'-C3'-O3'	-5.11	105.34	113.00
1	0	218	A	N9-C1'-C2'	5.09	121.63	114.00
1	0	1624	A	C4'-C3'-O3'	-5.09	105.37	113.00
1	0	181	A	C4'-C3'-O3'	5.08	117.01	109.40
1	0	2791	C	C4'-C3'-O3'	-5.07	105.40	113.00
1	0	2823	G	C4'-C3'-O3'	-5.06	101.81	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	2261	G	C2'-C3'-O3'	-5.06	101.92	109.50
1	0	2199	C	N1-C1'-C2'	5.05	119.58	112.00
1	0	2434	G	C4'-C3'-O3'	-5.05	105.43	113.00
1	0	1324	G	N9-C1'-C2'	5.04	119.56	112.00
1	0	582	G	N9-C1'-C2'	5.03	121.55	114.00
1	0	631	G	C2'-C3'-O3'	-5.03	106.15	113.70
1	0	2261	G	C4'-C3'-O3'	5.02	116.94	109.40
1	0	2016	A	N9-C1'-C2'	5.02	121.53	114.00
1	0	1142	G	C2'-C3'-O3'	-5.02	106.18	113.70

There are no chirality outliers.

All (158) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	1000	G	Sidechain
1	0	1030	U	Sidechain
1	0	1033	G	Sidechain
1	0	1141	U	Sidechain
1	0	1142	G	Sidechain
1	0	1167	A	Sidechain
1	0	1177	U	Sidechain
1	0	118	U	Sidechain
1	0	1202	U	Sidechain
1	0	1207	G	Sidechain
1	0	1224	A	Sidechain
1	0	1236	G	Sidechain
1	0	1249	G	Sidechain
1	0	1251	G	Sidechain
1	0	1261	G	Sidechain
1	0	1262	U	Sidechain
1	0	1278	A	Sidechain
1	0	1279	G	Sidechain
1	0	1280	U	Sidechain
1	0	1288	A	Sidechain
1	0	1295	U	Sidechain
1	0	1303	U	Sidechain
1	0	1314	A	Sidechain
1	0	1322	G	Sidechain
1	0	1332	G	Sidechain
1	0	1342	U	Sidechain
1	0	1357	U	Sidechain
1	0	1373	G	Sidechain

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Mol	Chain	Res	Type	Group
1	0	1407	G	Sidechain
1	0	1410	U	Sidechain
1	0	1469	U	Sidechain
1	0	1474	A	Sidechain
1	0	154	U	Sidechain
1	0	1625	A	Sidechain
1	0	1634	A	Sidechain
1	0	1635	G	Sidechain
1	0	165	G	Sidechain
1	0	1666	G	Sidechain
1	0	1671	A	Sidechain
1	0	1673	C	Sidechain
1	0	1676	U	Sidechain
1	0	1679	U	Sidechain
1	0	168	A	Sidechain
1	0	1682	A	Sidechain
1	0	1683	G	Sidechain
1	0	1705	U	Sidechain
1	0	1710	U	Sidechain
1	0	1711	C	Sidechain
1	0	1715	A	Sidechain
1	0	172	A	Sidechain
1	0	1723	U	Sidechain
1	0	1746	A	Sidechain
1	0	1749	G	Sidechain
1	0	1750	A	Sidechain
1	0	1771	A	Sidechain
1	0	1783	G	Sidechain
1	0	179	U	Sidechain
1	0	1814	G	Sidechain
1	0	1922	U	Sidechain
1	0	1945	C	Sidechain
1	0	196	A	Sidechain
1	0	1969	G	Sidechain
1	0	2009	U	Sidechain
1	0	2036	G	Sidechain
1	0	2047	C	Sidechain
1	0	2051	U	Sidechain
1	0	2058	U	Sidechain
1	0	2069	U	Sidechain
1	0	211	U	Sidechain
1	0	219	G	Sidechain

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Mol	Chain	Res	Type	Group
1	0	2199	C	Sidechain
1	0	2208	U	Sidechain
1	0	2223	U	Sidechain
1	0	2237	C	Sidechain
1	0	2251	U	Sidechain
1	0	2255	G	Sidechain
1	0	2258	G	Sidechain
1	0	2270	U	Sidechain
1	0	2315	A	Sidechain
1	0	2363	G	Sidechain
1	0	2366	U	Sidechain
1	0	2428	U	Sidechain
1	0	2429	A	Sidechain
1	0	2434	G	Sidechain
1	0	2436	U	Sidechain
1	0	2482	A	Sidechain
1	0	2483	U	Sidechain
1	0	2496	C	Sidechain
1	0	2497	A	Sidechain
1	0	2508	G	Sidechain
1	0	2521	A	Sidechain
1	0	2531	U	Sidechain
1	0	2534	U	Sidechain
1	0	2540	A	Sidechain
1	0	2544	A	Sidechain
1	0	2592	U	Sidechain
1	0	2595	C	Sidechain
1	0	2599	U	Sidechain
1	0	2682	C	Sidechain
1	0	2700	U	Sidechain
1	0	2719	U	Sidechain
1	0	2728	A	Sidechain
1	0	2736	U	Sidechain
1	0	2785	A	Sidechain
1	0	2790	C	Sidechain
1	0	2800	C	Sidechain
1	0	2807	U	Sidechain
1	0	2822	U	Sidechain
1	0	2823	G	Sidechain
1	0	2826	C	Sidechain
1	0	2844	G	Sidechain
1	0	2854	G	Sidechain

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Mol	Chain	Res	Type	Group
1	0	2867	G	Sidechain
1	0	2869	U	Sidechain
1	0	29	U	Sidechain
1	0	341	A	Sidechain
1	0	349	G	Sidechain
1	0	443	A	Sidechain
1	0	456	C	Sidechain
1	0	470	U	Sidechain
1	0	474	G	Sidechain
1	0	485	G	Sidechain
1	0	486	U	Sidechain
1	0	50	G	Sidechain
1	0	535	U	Sidechain
1	0	537	C	Sidechain
1	0	541	C	Sidechain
1	0	561	U	Sidechain
1	0	571	U	Sidechain
1	0	600	G	Sidechain
1	0	67	G	Sidechain
1	0	683	A	Sidechain
1	0	697	G	Sidechain
1	0	716	U	Sidechain
1	0	757	U	Sidechain
1	0	758	G	Sidechain
1	0	759	C	Sidechain
1	0	765	C	Sidechain
1	0	774	A	Sidechain
1	0	791	G	Sidechain
1	0	794	A	Sidechain
1	0	800	U	Sidechain
1	0	804	C	Sidechain
1	0	813	A	Sidechain
1	0	820	U	Sidechain
1	0	823	U	Sidechain
1	0	824	U	Sidechain
1	0	840	U	Sidechain
1	0	852	U	Sidechain
1	0	873	U	Sidechain
1	0	954	U	Sidechain
1	0	955	G	Sidechain
1	0	972	C	Sidechain
1	0	976	C	Sidechain

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Mol	Chain	Res	Type	Group
1	0	985	G	Sidechain
1	0	991	A	Sidechain
1	0	993	C	Sidechain
1	0	994	A	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	59359	0	29917	4815	0
2	B	205	0	0	2	0
3	0	33	0	43	7	0
All	All	59597	0	29960	4818	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 55.

All (4818) 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)
1:0:2040:A:H2'	1:0:2041:A:C8	1.52	1.42
1:0:2040:A:C2'	1:0:2041:A:H8	1.48	1.27
1:0:2564:U:O2'	1:0:2565:C:H5'	1.34	1.26
1:0:2418:A:H1'	1:0:2565:C:O2'	1.31	1.24
1:0:2810:A:C6	1:0:2854:G:C8	2.27	1.22
1:0:788:G:H22	1:0:801:A:P	1.64	1.21
1:0:813:A:O2'	1:0:814:G:H3'	1.36	1.20
1:0:2558:C:O2'	1:0:2559:U:H5'	1.36	1.19
1:0:940:G:H3'	1:0:941:U:H5''	1.20	1.19
1:0:788:G:H2'	1:0:807:A:N7	1.57	1.18
1:0:2726:U:H2'	1:0:2727:G:H5'	1.25	1.18
1:0:2559:U:H2'	1:0:2560:G:H5'	1.23	1.16
1:0:788:G:C2	1:0:800:U:H2'	1.80	1.16
1:0:1458:A:H3'	1:0:1459:U:C5'	1.72	1.15
1:0:918:A:H2'	1:0:919:U:H5''	1.21	1.14
1:0:2758:A:O2'	1:0:2759:U:OP1	1.65	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2426:G:H4'	1:0:2427:A:H5''	1.28	1.12
1:0:2565:C:O2'	1:0:2566:A:H5'	1.50	1.12
1:0:1458:A:H3'	1:0:1459:U:H5''	1.21	1.12
1:0:109:A:H2'	1:0:110:U:H5''	1.31	1.11
1:0:2708:U:H2'	1:0:2709:C:H6	1.07	1.11
1:0:2856:U:H2'	1:0:2857:C:H5''	1.33	1.11
1:0:929:A:H3'	1:0:930:A:H5''	1.32	1.10
1:0:1631:C:H2'	1:0:1632:A:H5''	1.29	1.10
1:0:1775:A:H4'	1:0:1776:A:O5'	1.50	1.10
1:0:1978:U:C5'	1:0:1979:C:H5''	1.82	1.10
1:0:2559:U:C2'	1:0:2560:G:H5'	1.80	1.09
1:0:2708:U:H2'	1:0:2709:C:C6	1.87	1.09
1:0:1908:C:H2'	1:0:1909:U:H4'	1.23	1.09
1:0:984:A:H1'	1:0:1202:U:C6	1.88	1.08
1:0:1437:A:H2'	1:0:1438:G:H8	1.14	1.08
1:0:693:A:H2'	1:0:694:G:C8	1.88	1.08
1:0:2691:C:C2'	1:0:2692:A:H5''	1.84	1.07
1:0:591:G:H3'	1:0:592:G:H8	1.20	1.07
1:0:509:U:H2'	1:0:510:G:H5'	1.36	1.06
1:0:750:C:H2'	1:0:751:G:H8	1.20	1.04
1:0:940:G:H3'	1:0:941:U:C5'	1.88	1.04
1:0:1202:U:H2'	1:0:1203:A:H8	1.21	1.04
1:0:2811:G:H2'	1:0:2812:A:H8	1.19	1.04
1:0:841:G:H2'	1:0:842:A:C8	1.93	1.03
1:0:788:G:N2	1:0:800:U:C3'	2.22	1.03
1:0:958:G:H2'	1:0:959:C:H6	1.24	1.03
1:0:2484:G:C8	1:0:2555:G:N2	2.27	1.03
1:0:2553:G:O2'	1:0:2554:C:H5'	1.59	1.03
1:0:2737:A:H2'	1:0:2738:A:H5'	1.41	1.03
1:0:2781:G:H2'	1:0:2782:G:C8	1.93	1.03
1:0:2691:C:H2'	1:0:2692:A:H5''	1.04	1.02
1:0:2856:U:C2'	1:0:2857:C:H5''	1.91	1.01
1:0:1464:A:H2'	1:0:1465:G:O4'	1.62	1.00
1:0:2198:U:C3'	1:0:2199:C:H4'	1.92	1.00
1:0:832:A:H2'	1:0:833:A:H8	1.27	1.00
1:0:1621:C:H4'	1:0:1626:A:H62	1.26	0.99
1:0:741:G:C6	1:0:743:A:C5	2.51	0.98
1:0:1787:U:H2'	1:0:1788:C:H6	1.26	0.98
1:0:1918:G:H2'	1:0:1945:C:H42	1.27	0.98
1:0:1978:U:H5'	1:0:1979:C:H5''	1.43	0.98
1:0:2311:U:H5'	1:0:2315:A:H61	1.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:109:A:C2'	1:0:110:U:H5''	1.93	0.98
1:0:357:A:H2'	1:0:358:C:H5'	1.43	0.97
1:0:2040:A:C2'	1:0:2041:A:C8	2.31	0.97
1:0:699:G:H21	1:0:801:A:N6	1.60	0.97
1:0:971:A:O2'	1:0:972:C:H5'	1.62	0.97
1:0:1440:G:H1'	1:0:1588:A:N6	1.80	0.97
1:0:627:A:H2'	1:0:628:A:C8	1.98	0.97
1:0:2425:G:O2'	1:0:2426:G:H5''	1.64	0.97
1:0:2553:G:C2'	1:0:2554:C:H5'	1.93	0.97
1:0:172:A:N7	1:0:175:C:H5	1.63	0.96
1:0:1528:C:H3'	1:0:1529:C:H5''	1.45	0.96
1:0:2040:A:H2'	1:0:2041:A:H8	0.87	0.96
1:0:2725:C:H2'	1:0:2726:U:C6	2.00	0.96
1:0:1377:G:HO2'	1:0:1799:A:H2	0.96	0.95
1:0:624:A:H2'	1:0:625:A:H5'	1.48	0.95
1:0:2418:A:H5''	1:0:2419:C:OP1	1.67	0.95
1:0:2041:A:H5''	1:0:2042:A:OP2	1.66	0.95
1:0:1715:A:O2'	1:0:1716:G:H3'	1.66	0.95
1:0:2404:A:H5'	1:0:2406:C:O4'	1.67	0.95
1:0:1174:G:H2'	1:0:1175:A:H8	1.28	0.94
1:0:2589:C:H5'	1:0:2590:U:H5'	1.48	0.94
1:0:579:G:H4'	1:0:994:A:C2	2.02	0.94
1:0:1774:A:N1	1:0:2566:A:H2'	1.80	0.94
1:0:68:C:O2	1:0:68:C:H2'	1.67	0.94
1:0:918:A:C2'	1:0:919:U:H5''	1.96	0.94
1:0:192:G:H1'	1:0:193:A:H4'	1.48	0.94
1:0:788:G:N2	1:0:801:A:P	2.40	0.94
1:0:1438:G:H2'	1:0:1439:G:H5'	1.49	0.94
1:0:2198:U:H3'	1:0:2199:C:H4'	1.50	0.94
1:0:2811:G:H2'	1:0:2812:A:C8	2.03	0.94
1:0:1715:A:H2'	1:0:1716:G:H5''	1.48	0.94
1:0:321:A:H2'	1:0:323:G:N7	1.83	0.93
1:0:742:G:N2	1:0:1766:U:C6	2.36	0.93
1:0:939:C:H2'	1:0:940:G:C8	2.02	0.93
1:0:2329:C:H2'	1:0:2330:G:O4'	1.67	0.93
1:0:1373:G:H22	1:0:2192:U:H3	1.00	0.93
1:0:1673:C:H2'	1:0:1674:C:H6	1.31	0.93
1:0:1764:A:H2'	1:0:1765:C:H5'	1.51	0.93
1:0:2498:U:H4'	1:0:2499:C:OP1	1.63	0.93
1:0:583:C:H1'	1:0:2038:C:C6	2.04	0.93
1:0:699:G:N2	1:0:801:A:H61	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1437:A:H2'	1:0:1438:G:C8	2.04	0.93
1:0:627:A:H2'	1:0:628:A:H8	1.29	0.92
1:0:1438:G:C2'	1:0:1439:G:H5'	1.98	0.92
1:0:2418:A:C1'	1:0:2565:C:O2'	2.16	0.92
1:0:1698:C:H2'	1:0:1753:A:N3	1.84	0.92
1:0:2705:A:O2'	1:0:2706:U:C6	2.23	0.92
1:0:2781:G:H2'	1:0:2782:G:C1'	1.98	0.92
1:0:741:G:C6	1:0:743:A:N7	2.38	0.92
1:0:976:C:H1'	1:0:2252:A:C2	2.05	0.92
1:0:1631:C:C2'	1:0:1632:A:H5''	2.00	0.92
1:0:983:G:OP2	1:0:985:G:H5''	1.69	0.92
1:0:2427:A:O2'	1:0:2428:U:OP1	1.85	0.92
1:0:2680:U:H5''	1:0:2681:A:H5'	1.52	0.92
1:0:2691:C:H2'	1:0:2692:A:C5'	1.98	0.92
1:0:1882:G:H21	1:0:1885:C:N4	1.67	0.91
1:0:2810:A:C5	1:0:2854:G:N7	2.38	0.91
1:0:2810:A:N6	1:0:2854:G:C8	2.38	0.91
1:0:611:C:O2	1:0:614:G:H4'	1.70	0.91
1:0:1354:A:H3'	1:0:1410:U:C2	2.05	0.91
1:0:787:A:O2'	1:0:788:G:H5'	1.71	0.91
1:0:1359:G:H5'	1:0:1359:G:H8	1.34	0.91
1:0:2425:G:H2'	1:0:2426:G:H5'	1.51	0.91
1:0:788:G:N2	1:0:800:U:H2'	1.85	0.91
1:0:1978:U:H5'	1:0:1979:C:C5'	2.00	0.91
1:0:2185:U:H2'	1:0:2186:G:C8	2.05	0.91
1:0:1800:A:N3	1:0:1802:A:N1	2.19	0.90
1:0:2418:A:H1'	1:0:2565:C:HO2'	1.33	0.90
1:0:750:C:H2'	1:0:751:G:C8	2.06	0.90
1:0:958:G:H2'	1:0:959:C:C6	2.05	0.90
1:0:318:G:H21	1:0:341:A:H62	1.13	0.90
1:0:1150:C:H4'	1:0:1154:A:C2	2.06	0.90
1:0:306:G:N2	1:0:355:G:H1'	1.85	0.90
1:0:516:G:HO2'	1:0:517:A:H8	0.92	0.90
1:0:813:A:H1'	1:0:815:A:H5'	1.51	0.90
1:0:689:A:H8	1:0:2052:G:H21	0.92	0.90
1:0:2376:G:H22	1:0:2399:C:H1'	1.36	0.90
1:0:616:U:H2'	1:0:617:U:H5''	1.51	0.89
1:0:1198:C:O3'	1:0:1199:U:H4'	1.72	0.89
1:0:631:G:H4'	1:0:632:A:C5'	2.03	0.89
1:0:693:A:H2'	1:0:694:G:H8	1.28	0.89
1:0:992:A:H5'	1:0:993:C:OP2	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1459:U:OP1	1:0:1459:U:H3'	1.70	0.89
1:0:1882:G:H21	1:0:1885:C:H41	1.12	0.89
1:0:2841:U:H1'	1:0:2843:A:O2'	1.73	0.89
1:0:1089:C:H2'	1:0:1099:A:O4'	1.71	0.88
1:0:1477:C:H5'	1:0:1478:U:OP2	1.73	0.88
1:0:538:A:H3'	1:0:538:A:C8	2.07	0.88
1:0:2427:A:O2'	1:0:2428:U:P	2.31	0.88
1:0:837:U:H2'	1:0:838:A:H8	1.38	0.88
1:0:985:G:H1'	1:0:1001:A:N6	1.88	0.88
1:0:1458:A:C3'	1:0:1459:U:H5''	2.03	0.88
3:0:2881:G80:H14	3:0:2881:G80:H10	1.52	0.88
1:0:788:G:N2	1:0:800:U:C2'	2.37	0.88
1:0:2058:U:H3'	1:0:2217:G:H22	1.38	0.88
1:0:742:G:H5''	1:0:776:G:O5'	1.73	0.87
1:0:1625:A:H3'	1:0:1625:A:N3	1.87	0.87
1:0:143:A:H2'	1:0:144:U:H6	1.36	0.87
1:0:701:U:O2	1:0:800:U:H4'	1.73	0.87
1:0:2768:C:HO2'	1:0:2784:A:H8	0.89	0.87
1:0:1329:U:H2'	1:0:1330:G:H8	1.40	0.87
1:0:2043:A:O4'	1:0:2481:G:H1'	1.74	0.87
1:0:2426:G:H4'	1:0:2427:A:C5'	2.05	0.87
1:0:1299:A:H2'	1:0:1301:U:OP2	1.73	0.87
1:0:1383:C:H2'	1:0:1384:G:H8	1.37	0.87
1:0:2560:G:O2'	1:0:2561:G:P	2.32	0.87
1:0:2755:A:O2'	1:0:2756:A:C5'	2.23	0.87
1:0:2426:G:O2'	1:0:2427:A:H5'	1.74	0.86
1:0:2544:A:H2'	1:0:2545:A:H1'	1.55	0.86
1:0:462:G:H2'	1:0:463:C:C5'	2.05	0.86
1:0:787:A:C5	1:0:788:G:N7	2.44	0.86
1:0:1345:G:C4	1:0:1625:A:N1	2.43	0.86
1:0:1991:C:H2'	1:0:1992:G:H8	1.39	0.86
1:0:1361:G:H2'	1:0:1362:A:H8	1.40	0.86
1:0:837:U:H3	1:0:846:A:H61	1.18	0.86
1:0:1073:G:H2'	1:0:1074:G:C4'	2.06	0.86
1:0:1670:G:H21	1:0:1988:A:H62	1.23	0.86
1:0:2266:A:C2	1:0:2268:G:H1'	2.11	0.86
1:0:2697:G:O2'	1:0:2698:G:H5'	1.76	0.86
1:0:591:G:H3'	1:0:592:G:C8	2.09	0.86
1:0:1147:G:H2'	1:0:1148:G:H8	1.38	0.86
1:0:1373:G:N2	1:0:2192:U:H3	1.71	0.86
1:0:2791:C:O2'	1:0:2792:C:H5'	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1673:C:H2'	1:0:1674:C:C6	2.10	0.86
1:0:1522:C:H2'	1:0:1523:A:O4'	1.75	0.86
1:0:1947:G:H4'	1:0:1948:C:OP2	1.75	0.86
1:0:175:C:N4	1:0:225:G:H1	1.72	0.85
1:0:1826:U:H1'	1:0:1952:A:H2'	1.55	0.85
1:0:76:C:H6	1:0:76:C:H5'	1.40	0.85
1:0:941:U:H4'	1:0:941:U:OP1	1.74	0.85
1:0:1586:A:H2'	1:0:1587:A:H8	1.39	0.85
1:0:2266:A:N6	1:0:2323:U:H1'	1.91	0.85
1:0:2061:C:H42	1:0:2220:A:H61	1.24	0.85
1:0:640:C:H4'	1:0:660:G:N3	1.91	0.85
1:0:813:A:O2'	1:0:814:G:C3'	2.24	0.85
1:0:176:A:H2'	1:0:2412:A:H61	1.41	0.85
1:0:590:C:H2'	1:0:591:G:H8	1.42	0.85
1:0:985:G:H1'	1:0:1001:A:H61	1.40	0.85
1:0:351:A:H2'	1:0:352:G:O4'	1.77	0.85
1:0:2755:A:O2'	1:0:2756:A:H5'	1.75	0.85
1:0:2477:C:H3'	1:0:2477:C:H6	1.41	0.85
1:0:572:G:O2'	1:0:573:C:H5'	1.75	0.85
1:0:2172:U:O2'	1:0:2173:G:H5'	1.75	0.85
1:0:65:C:H2'	1:0:66:U:O4'	1.74	0.84
1:0:1787:U:H2'	1:0:1788:C:C6	2.12	0.84
1:0:2761:A:H5''	1:0:2762:G:H5'	1.58	0.84
1:0:450:C:H2'	1:0:451:A:H8	1.40	0.84
1:0:682:G:H5''	1:0:683:A:OP2	1.77	0.84
1:0:1071:U:H3'	1:0:1072:U:H5'	1.60	0.84
1:0:1199:U:H3'	1:0:1200:G:H5''	1.57	0.84
1:0:1978:U:H5''	1:0:1979:C:H5''	1.56	0.84
1:0:926:C:H2'	1:0:927:C:H5'	1.59	0.84
1:0:2678:C:C2	1:0:2688:G:N2	2.46	0.84
1:0:1407:G:N2	1:0:1408:A:N1	2.25	0.84
1:0:704:G:H2'	1:0:705:C:H6	1.40	0.84
1:0:1164:C:H2'	1:0:1165:G:O4'	1.78	0.84
1:0:2261:G:H4'	1:0:2262:C:OP2	1.77	0.84
1:0:1124:U:H2'	1:0:1125:G:H8	1.42	0.84
1:0:619:A:H61	1:0:629:C:H42	1.23	0.84
1:0:2780:A:H2'	1:0:2781:G:C8	2.13	0.84
1:0:1572:C:H2'	1:0:1573:G:H5''	1.60	0.84
1:0:2376:G:N2	1:0:2399:C:H1'	1.92	0.84
1:0:2810:A:C6	1:0:2854:G:N7	2.45	0.84
1:0:318:G:N2	1:0:320:A:H3'	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1625:A:H1'	1:0:1632:A:O2'	1.78	0.83
1:0:1896:A:H2'	1:0:1899:A:H61	1.42	0.83
1:0:2565:C:C2'	1:0:2566:A:H5'	2.08	0.83
1:0:1202:U:H2'	1:0:1203:A:C8	2.12	0.83
1:0:1333:G:H21	1:0:1344:C:H41	1.26	0.83
1:0:2395:C:H2'	1:0:2396:C:H5''	1.60	0.83
1:0:1286:U:H4'	1:0:1288:A:OP1	1.78	0.83
1:0:1666:G:H2'	1:0:1667:A:H8	1.40	0.83
1:0:810:U:H2'	1:0:811:G:O4'	1.78	0.83
1:0:1440:G:H1'	1:0:1588:A:H61	1.40	0.83
1:0:612:G:O3'	1:0:613:A:H4'	1.77	0.83
1:0:741:G:O6	1:0:743:A:C6	2.30	0.83
1:0:2812:A:H2'	1:0:2813:G:H8	1.43	0.83
1:0:516:G:O2'	1:0:517:A:H8	1.60	0.83
1:0:1685:A:H61	1:0:1693:A:H61	1.22	0.83
1:0:67:G:H2'	1:0:68:C:O4'	1.78	0.83
1:0:2387:U:H2'	1:0:2388:G:C8	2.12	0.83
1:0:2790:C:H2'	1:0:2791:C:C6	2.14	0.83
1:0:1354:A:H3'	1:0:1410:U:O2	1.78	0.83
1:0:1479:G:N2	1:0:1543:G:H21	1.75	0.83
1:0:1552:C:H2'	1:0:1553:G:H5'	1.60	0.83
1:0:2710:C:O2'	1:0:2711:G:H5'	1.79	0.83
1:0:1670:G:OP1	1:0:2797:G:N2	2.11	0.82
1:0:2456:U:H1'	1:0:2460:G:H1	1.43	0.82
1:0:459:A:H1'	1:0:461:A:N6	1.93	0.82
1:0:2677:U:H3	1:0:2688:G:H1	1.27	0.82
1:0:825:C:H1'	1:0:1263:G:C2	2.14	0.82
1:0:594:G:C4	1:0:1264:C:N4	2.47	0.82
1:0:1351:G:O2'	1:0:1352:G:H5'	1.80	0.82
1:0:2448:A:H2'	1:0:2449:G:H5'	1.62	0.82
1:0:2726:U:C2'	1:0:2727:G:H5'	2.09	0.82
1:0:185:C:H2'	1:0:186:C:H6	1.44	0.82
1:0:1632:A:O2'	1:0:1633:C:P	2.37	0.82
1:0:1301:U:H4'	1:0:1302:C:OP2	1.78	0.82
1:0:1927:U:O2	1:0:1927:U:H2'	1.78	0.82
1:0:637:G:H8	1:0:637:G:H3'	1.45	0.82
1:0:822:G:O2'	1:0:823:U:H5'	1.80	0.82
1:0:837:U:H2'	1:0:838:A:C8	2.15	0.82
1:0:1436:G:H21	1:0:1514:C:H1'	1.42	0.82
1:0:1911:A:H2'	1:0:1912:G:H5'	1.61	0.82
1:0:2058:U:H3'	1:0:2217:G:N2	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:330:C:H2'	1:0:331:U:H5'	1.60	0.82
1:0:805:G:H4'	1:0:806:A:OP2	1.79	0.82
1:0:138:G:H2'	1:0:139:A:H8	1.44	0.82
1:0:1020:A:N7	1:0:1021:A:C6	2.48	0.82
1:0:2624:G:H4'	1:0:2712:G:O2'	1.78	0.82
1:0:1312:G:H5''	1:0:1313:U:H5''	1.62	0.81
1:0:2871:U:H2'	1:0:2872:U:C6	2.15	0.81
1:0:83:A:H62	1:0:98:U:H1'	1.44	0.81
1:0:171:G:C2'	1:0:172:A:H5'	2.09	0.81
1:0:192:G:C1'	1:0:193:A:H4'	2.10	0.81
1:0:557:U:H3'	1:0:559:C:N4	1.95	0.81
1:0:689:A:H8	1:0:2052:G:N2	1.77	0.81
1:0:832:A:H2'	1:0:833:A:C8	2.15	0.81
1:0:2424:G:O2'	1:0:2425:G:H5'	1.79	0.81
1:0:2426:G:C4'	1:0:2427:A:H5''	2.09	0.81
1:0:2692:A:H5'	1:0:2693:U:H5'	1.62	0.81
1:0:116:A:N3	1:0:155:G:H1'	1.96	0.81
1:0:788:G:N2	1:0:800:U:H3'	1.94	0.81
1:0:1361:G:H2'	1:0:1362:A:C8	2.15	0.81
1:0:2044:G:O2'	1:0:2045:A:H5'	1.80	0.81
1:0:2431:C:O2'	1:0:2432:A:H5'	1.80	0.81
1:0:2306:A:H2'	1:0:2307:A:C8	2.14	0.81
1:0:1648:C:H6	1:0:1648:C:H5'	1.45	0.81
1:0:2014:A:N7	1:0:2477:C:H1'	1.95	0.81
1:0:27:G:H1'	1:0:523:A:N6	1.96	0.81
1:0:2352:A:H2'	1:0:2353:G:C8	2.15	0.81
1:0:632:A:H3'	1:0:632:A:N3	1.96	0.81
1:0:1337:G:H1'	1:0:1632:A:N6	1.94	0.81
1:0:2266:A:H62	1:0:2323:U:H1'	1.46	0.81
1:0:2492:G:H2'	1:0:2493:U:C6	2.16	0.81
1:0:742:G:H2'	1:0:742:G:N3	1.96	0.81
1:0:1108:U:H2'	1:0:1109:A:H5'	1.62	0.81
1:0:1159:U:O2'	1:0:1160:C:H5'	1.80	0.81
1:0:2471:U:H2'	1:0:2472:U:C6	2.15	0.81
1:0:622:U:H2'	1:0:623:G:H5'	1.60	0.81
1:0:653:G:H21	1:0:657:A:N6	1.79	0.81
1:0:2382:C:O2	1:0:2382:C:H2'	1.80	0.81
1:0:2839:G:H2'	1:0:2840:U:C6	2.15	0.81
1:0:539:A:H62	1:0:2024:U:H3	1.27	0.80
1:0:699:G:H5'	1:0:700:C:OP2	1.81	0.80
1:0:741:G:C5	1:0:743:A:N7	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2556:A:C2	1:0:2593:A:H2	2.00	0.80
1:0:2825:A:H2'	1:0:2826:C:C6	2.16	0.80
1:0:594:G:N1	1:0:1264:C:H5	1.79	0.80
1:0:1301:U:O2'	1:0:1664:G:N2	2.14	0.80
1:0:1906:U:H2'	1:0:1907:C:C5	2.16	0.80
1:0:2053:G:H2'	1:0:2054:A:C8	2.15	0.80
1:0:2081:U:H2'	1:0:2082:C:H5''	1.61	0.80
1:0:104:C:H2'	1:0:105:G:H5''	1.64	0.80
1:0:143:A:H2'	1:0:144:U:C6	2.15	0.80
1:0:204:A:H61	1:0:423:G:H21	1.28	0.80
1:0:741:G:O6	1:0:743:A:C5	2.33	0.80
1:0:2369:U:H6	1:0:2369:U:H3'	1.46	0.80
1:0:873:U:H1'	1:0:2246:A:H5''	1.62	0.80
1:0:1514:C:H5'	1:0:1593:C:H5'	1.64	0.80
1:0:1900:U:H2'	1:0:1901:A:O4'	1.81	0.80
1:0:2387:U:H2'	1:0:2388:G:H8	1.46	0.80
1:0:2205:C:H2'	1:0:2206:C:H5'	1.64	0.80
1:0:2426:G:O2'	1:0:2427:A:C5'	2.30	0.80
1:0:1365:U:H1'	1:0:1586:A:H2	1.45	0.80
1:0:367:G:H2'	1:0:368:A:H5''	1.63	0.79
1:0:1918:G:H2'	1:0:1945:C:N4	1.96	0.79
1:0:2565:C:HO2'	1:0:2566:A:H5'	1.45	0.79
1:0:2133:G:H2'	1:0:2134:U:C6	2.17	0.79
1:0:306:G:H22	1:0:355:G:H1'	1.48	0.79
1:0:1333:G:H22	1:0:1344:C:H5	1.29	0.79
1:0:1675:C:H2'	1:0:1676:U:C6	2.17	0.79
1:0:2563:U:C2'	1:0:2564:U:H5'	2.12	0.79
1:0:2194:A:H2'	1:0:2195:C:H5''	1.64	0.79
1:0:1255:A:H2'	1:0:1256:C:H6	1.48	0.79
1:0:1443:G:H2'	1:0:1444:C:H6	1.47	0.79
1:0:1586:A:H2'	1:0:1587:A:C8	2.18	0.79
1:0:2040:A:N9	1:0:2041:A:C8	2.50	0.79
1:0:2713:A:H2'	1:0:2714:A:H8	1.45	0.79
1:0:368:A:H2'	1:0:369:C:O4'	1.82	0.79
1:0:1958:G:H2'	1:0:1959:U:C6	2.17	0.79
1:0:929:A:C3'	1:0:930:A:H5''	2.12	0.79
1:0:2312:A:H2'	1:0:2312:A:N3	1.98	0.79
1:0:2565:C:H2'	1:0:2565:C:O2	1.81	0.79
1:0:637:G:H3'	1:0:637:G:C8	2.17	0.79
1:0:1686:A:H2'	1:0:1687:C:H5'	1.64	0.79
1:0:1941:C:O2'	1:0:1942:G:H5'	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2424:G:C2'	1:0:2425:G:H5'	2.14	0.78
1:0:2553:G:H2'	1:0:2554:C:H5'	1.64	0.78
1:0:699:G:H21	1:0:801:A:H61	0.82	0.78
1:0:716:U:H2'	1:0:717:G:O4'	1.82	0.78
1:0:1439:G:H3'	1:0:1439:G:OP2	1.84	0.78
1:0:2782:G:H3'	1:0:2783:U:H5''	1.63	0.78
1:0:2856:U:H2'	1:0:2857:C:C5'	2.12	0.78
1:0:579:G:H4'	1:0:994:A:H2	1.47	0.78
1:0:1345:G:C8	1:0:1625:A:N6	2.48	0.78
1:0:67:G:C6	1:0:72:A:C2	2.71	0.78
1:0:173:A:H2'	1:0:173:A:N3	1.95	0.78
1:0:2071:G:O2'	1:0:2072:C:H5'	1.83	0.78
1:0:462:G:H2'	1:0:463:C:H5'	1.64	0.78
1:0:227:G:H2'	1:0:228:A:C8	2.18	0.78
1:0:808:C:O2'	1:0:809:C:H5'	1.83	0.78
1:0:1073:G:H2'	1:0:1074:G:H4'	1.64	0.78
1:0:1624:A:O2'	1:0:1625:A:H5'	1.83	0.78
1:0:2109:A:H2'	1:0:2110:G:O4'	1.84	0.78
1:0:912:A:H2'	1:0:913:A:H8	1.48	0.78
1:0:1770:U:O4	1:0:1774:A:H2'	1.84	0.78
1:0:881:U:H2'	1:0:882:C:C6	2.19	0.78
1:0:1714:A:H5'	1:0:1715:A:C5'	2.13	0.78
1:0:1800:A:H1'	1:0:1802:A:C2	2.19	0.78
1:0:2047:C:H1'	1:0:2429:A:C6	2.18	0.78
1:0:631:G:H4'	1:0:632:A:H5'	1.66	0.78
1:0:1923:U:H5'	1:0:1924:C:OP1	1.84	0.78
1:0:116:A:C2	1:0:155:G:H1'	2.17	0.78
1:0:314:G:H2'	1:0:315:G:H8	1.47	0.78
1:0:366:U:H2'	1:0:367:G:H8	1.47	0.78
1:0:954:U:C4	1:0:955:G:N2	2.52	0.78
1:0:1325:U:O2'	1:0:1326:U:OP2	2.02	0.78
1:0:2185:U:H2'	1:0:2186:G:H8	1.45	0.78
1:0:2555:G:H2'	1:0:2555:G:N3	1.97	0.78
1:0:742:G:H4'	1:0:776:G:H4'	1.64	0.77
1:0:1210:C:H1'	1:0:1239:A:C4	2.19	0.77
1:0:2737:A:H2'	1:0:2738:A:C5'	2.14	0.77
1:0:936:A:H2'	1:0:937:C:O4'	1.85	0.77
1:0:1690:U:H2'	1:0:1691:G:H5'	1.66	0.77
1:0:1911:A:N7	1:0:1912:G:H8	1.83	0.77
1:0:1898:U:H3'	1:0:1899:A:C8	2.19	0.77
1:0:2222:U:H2'	1:0:2223:U:H6	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:788:G:H2'	1:0:807:A:C8	2.18	0.77
1:0:1399:C:O2'	1:0:1400:A:H5'	1.85	0.77
1:0:1898:U:H3'	1:0:1899:A:H8	1.49	0.77
1:0:1286:U:H5''	1:0:1663:C:N4	1.99	0.77
1:0:1675:C:H2'	1:0:1676:U:H6	1.49	0.77
1:0:2425:G:C2'	1:0:2426:G:H5'	2.13	0.77
1:0:66:U:H2'	1:0:67:G:C8	2.19	0.77
1:0:1699:A:H61	1:0:1723:U:H3	1.33	0.77
1:0:2324:G:N3	1:0:2326:C:H5	1.81	0.77
1:0:2726:U:N3	1:0:2736:U:O4	2.18	0.77
1:0:2768:C:O2'	1:0:2784:A:H8	1.67	0.77
1:0:451:A:H2'	1:0:452:G:C8	2.20	0.77
1:0:1783:G:N2	1:0:1820:G:O2'	2.16	0.77
1:0:2040:A:C8	1:0:2041:A:N7	2.53	0.77
1:0:691:C:O2'	1:0:692:C:H5'	1.85	0.77
1:0:2690:A:OP1	1:0:2692:A:OP2	2.03	0.77
1:0:741:G:C5	1:0:743:A:C8	2.73	0.77
1:0:1181:C:H2'	1:0:1182:U:O4'	1.84	0.77
1:0:1343:C:O2'	1:0:1344:C:H5'	1.85	0.77
1:0:2198:U:H3'	1:0:2199:C:C4'	2.13	0.77
1:0:175:C:H42	1:0:225:G:H1	1.30	0.77
1:0:983:G:C6	1:0:984:A:N6	2.53	0.77
1:0:1625:A:H4'	1:0:1625:A:OP2	1.85	0.77
1:0:2222:U:H2'	1:0:2223:U:C6	2.20	0.77
1:0:2425:G:O2'	1:0:2426:G:C5'	2.32	0.77
1:0:58:C:H42	1:0:73:A:N6	1.83	0.76
1:0:314:G:H2'	1:0:315:G:C8	2.20	0.76
1:0:20:C:O2'	1:0:21:A:H5'	1.85	0.76
1:0:403:A:H5''	1:0:404:A:OP1	1.86	0.76
1:0:465:C:H2'	1:0:467:U:O2	1.85	0.76
1:0:698:A:H1'	1:0:701:U:O4	1.85	0.76
1:0:861:G:H1	1:0:942:U:H3	1.32	0.76
1:0:1401:G:O2'	1:0:1402:G:H5'	1.83	0.76
1:0:1993:G:O2'	1:0:1994:U:H5'	1.83	0.76
1:0:58:C:H5'	1:0:59:G:OP2	1.86	0.76
1:0:624:A:C2'	1:0:625:A:H5'	2.16	0.76
1:0:1026:U:H2'	1:0:1027:C:C6	2.21	0.76
1:0:1514:C:H5'	1:0:1593:C:C5'	2.15	0.76
1:0:330:C:C2'	1:0:331:U:H5'	2.14	0.76
1:0:2047:C:H6	1:0:2047:C:H5''	1.50	0.76
1:0:16:G:O2'	1:0:17:G:H5'	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:530:G:H2'	1:0:531:G:H8	1.49	0.76
1:0:1920:A:C6	1:0:1922:U:H5	2.04	0.76
1:0:2560:G:N1	1:0:2589:C:C5	2.53	0.76
1:0:788:G:C2'	1:0:807:A:N7	2.43	0.76
1:0:1486:A:H2'	1:0:1487:C:C6	2.20	0.76
1:0:2560:G:O4'	1:0:2561:G:N7	2.19	0.76
1:0:857:U:H2'	1:0:858:G:H5'	1.67	0.76
1:0:1440:G:H3'	1:0:1441:A:C5'	2.15	0.76
1:0:1685:A:H4'	1:0:1686:A:H5'	1.68	0.76
1:0:2516:U:H2'	1:0:2517:C:H6	1.50	0.76
1:0:2781:G:H2'	1:0:2782:G:N9	2.00	0.76
1:0:166:G:O2'	1:0:167:A:H5''	1.85	0.76
1:0:2492:G:H2'	1:0:2493:U:H6	1.50	0.76
1:0:2516:U:H2'	1:0:2517:C:C6	2.21	0.76
1:0:929:A:H8	1:0:2247:A:H61	1.34	0.76
1:0:1279:G:O2'	1:0:1280:U:OP2	2.04	0.76
1:0:1681:A:H61	1:0:1979:C:N4	1.84	0.76
1:0:1714:A:O2'	1:0:1961:A:OP1	2.03	0.76
1:0:879:A:N1	1:0:926:C:N4	2.34	0.75
1:0:1714:A:H5'	1:0:1715:A:O5'	1.85	0.75
1:0:2560:G:O2'	1:0:2561:G:OP2	2.03	0.75
1:0:2812:A:H2'	1:0:2813:G:C8	2.20	0.75
1:0:318:G:H21	1:0:341:A:N6	1.84	0.75
1:0:1443:G:H2'	1:0:1444:C:C6	2.22	0.75
1:0:839:U:OP1	1:0:2408:G:OP2	2.04	0.75
1:0:1310:C:H2'	1:0:1311:C:H6	1.50	0.75
1:0:1507:A:H4'	1:0:1510:A:OP1	1.86	0.75
1:0:1621:C:C4'	1:0:1626:A:H62	1.99	0.75
1:0:1674:C:H2'	1:0:1675:C:H6	1.51	0.75
1:0:459:A:H1'	1:0:461:A:H62	1.52	0.75
1:0:759:C:H5''	1:0:761:G:H1'	1.68	0.75
1:0:1653:C:H2'	1:0:1654:A:C8	2.21	0.75
1:0:2033:C:C4	1:0:2034:A:N7	2.55	0.75
1:0:2162:C:H2'	1:0:2163:U:C6	2.22	0.75
1:0:308:C:O2'	1:0:309:G:H5'	1.85	0.75
1:0:686:C:H2'	1:0:687:G:H5'	1.69	0.75
1:0:764:A:C4	1:0:802:A:C2	2.74	0.75
1:0:955:G:C8	1:0:955:G:H3'	2.21	0.75
1:0:1151:U:H5''	1:0:1153:A:O5'	1.87	0.75
1:0:1666:G:H2'	1:0:1667:A:C8	2.21	0.75
1:0:2059:U:OP2	1:0:2217:G:N2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2771:C:H1'	1:0:2782:G:H22	1.51	0.75
1:0:2796:A:H2'	1:0:2797:G:H8	1.50	0.75
1:0:459:A:H4'	1:0:461:A:N7	2.01	0.75
1:0:778:G:H2'	1:0:779:U:H6	1.51	0.75
1:0:929:A:N7	1:0:930:A:N3	2.35	0.75
1:0:1349:A:H2'	1:0:1350:G:H8	1.49	0.75
1:0:1377:G:O2'	1:0:1799:A:H2	1.66	0.75
1:0:1827:G:H1'	1:0:1914:U:C2	2.21	0.75
1:0:2280:A:H2'	1:0:2281:C:C6	2.22	0.75
1:0:2447:G:O2'	1:0:2448:A:H5'	1.85	0.75
1:0:84:G:H2'	1:0:85:C:O4'	1.86	0.75
1:0:1354:A:O5'	1:0:1410:U:N3	2.19	0.75
1:0:1979:C:O4'	1:0:1979:C:OP1	2.05	0.75
1:0:171:G:H2'	1:0:172:A:H5'	1.69	0.75
1:0:547:U:H2'	1:0:548:G:H8	1.51	0.75
1:0:1174:G:H2'	1:0:1175:A:C8	2.17	0.75
1:0:1761:G:H2'	1:0:1762:C:H6	1.51	0.75
1:0:2675:U:H2'	1:0:2676:G:C8	2.22	0.75
1:0:874:A:C2	1:0:875:G:H1'	2.22	0.74
1:0:1674:C:H2'	1:0:1675:C:C6	2.22	0.74
1:0:2558:C:HO2'	1:0:2559:U:H5'	1.50	0.74
1:0:68:C:C2	1:0:72:A:C2	2.75	0.74
1:0:133:C:H2'	1:0:134:G:O4'	1.87	0.74
1:0:138:G:H2'	1:0:139:A:C8	2.22	0.74
1:0:579:G:C4'	1:0:994:A:H2	2.00	0.74
1:0:824:U:H4'	1:0:1264:C:O2	1.87	0.74
1:0:317:U:H3'	1:0:318:G:H5''	1.69	0.74
1:0:1744:G:N2	1:0:1746:A:H3'	2.01	0.74
1:0:2705:A:HO2'	1:0:2706:U:H6	1.28	0.74
1:0:772:G:H2'	1:0:773:G:H8	1.52	0.74
1:0:2343:C:H2'	1:0:2344:G:O4'	1.87	0.74
1:0:2323:U:H5''	1:0:2324:G:OP1	1.87	0.74
1:0:2425:G:C2'	1:0:2426:G:C5'	2.65	0.74
1:0:2503:G:H2'	1:0:2504:G:H5''	1.67	0.74
1:0:450:C:H2'	1:0:451:A:C8	2.22	0.74
1:0:790:A:H2'	1:0:790:A:N3	2.01	0.74
1:0:1086:C:H2'	1:0:1087:C:H5''	1.68	0.74
1:0:1468:A:H8	1:0:1468:A:O5'	1.70	0.74
1:0:1483:G:H2'	1:0:1484:G:H8	1.53	0.74
1:0:2796:A:H2'	1:0:2797:G:C8	2.22	0.74
1:0:509:U:C2'	1:0:510:G:H5'	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:813:A:O2'	1:0:814:G:O5'	2.04	0.74
1:0:2760:G:O2'	1:0:2761:A:OP1	2.03	0.74
1:0:181:A:H4'	1:0:182:G:OP1	1.88	0.74
1:0:845:U:OP2	1:0:955:G:O6	2.05	0.74
1:0:879:A:H2'	1:0:879:A:N3	2.01	0.74
1:0:1255:A:H2'	1:0:1256:C:C6	2.22	0.74
1:0:2396:C:H6	1:0:2396:C:H5'	1.52	0.74
1:0:2756:A:C2'	1:0:2757:G:OP2	2.35	0.74
1:0:805:G:H2'	1:0:2419:C:N3	2.03	0.74
1:0:2526:U:C5	1:0:2545:A:N7	2.56	0.74
1:0:172:A:N1	1:0:178:C:N3	2.35	0.73
1:0:466:A:O2'	1:0:467:U:OP2	2.06	0.73
1:0:1837:G:O2'	1:0:1838:G:H5'	1.87	0.73
1:0:1963:G:O2'	1:0:1964:A:OP1	2.06	0.73
1:0:2039:G:N2	1:0:2040:A:N9	2.36	0.73
1:0:422:C:H2'	1:0:423:G:H8	1.53	0.73
1:0:567:G:O2'	1:0:568:G:H5'	1.88	0.73
1:0:2217:G:H5''	1:0:2218:G:OP1	1.88	0.73
1:0:2652:G:H2'	1:0:2653:A:H8	1.51	0.73
1:0:2841:U:O2	1:0:2843:A:O2'	2.06	0.73
1:0:2871:U:H2'	1:0:2872:U:H6	1.53	0.73
1:0:1457:A:H2'	1:0:1458:A:O4'	1.88	0.73
1:0:2626:U:H3	1:0:2653:A:N6	1.86	0.73
1:0:2672:U:H2'	1:0:2673:G:H8	1.53	0.73
1:0:929:A:C8	1:0:2247:A:N6	2.54	0.73
1:0:982:C:H2'	1:0:983:G:O4'	1.88	0.73
1:0:1181:C:H2'	1:0:1182:U:C4'	2.17	0.73
1:0:1608:U:H2'	1:0:1609:G:C8	2.23	0.73
1:0:1631:C:H2'	1:0:1632:A:C5'	2.16	0.73
1:0:2044:G:O2'	1:0:2045:A:C5'	2.36	0.73
1:0:2781:G:C2'	1:0:2782:G:C8	2.71	0.73
1:0:538:A:H3'	1:0:538:A:H8	1.48	0.73
1:0:973:U:H2'	1:0:974:U:H6	1.52	0.73
1:0:1002:C:N4	1:0:1003:C:H41	1.86	0.73
1:0:2234:G:H2'	1:0:2235:G:O4'	1.88	0.73
1:0:59:G:H1'	1:0:73:A:N1	2.03	0.73
1:0:2484:G:N7	1:0:2555:G:N2	2.36	0.73
1:0:2810:A:C5	1:0:2854:G:C8	2.76	0.73
1:0:1259:A:C2'	1:0:1260:A:H5'	2.19	0.73
1:0:2663:U:H2'	1:0:2664:G:O4'	1.89	0.73
1:0:2274:C:H2'	1:0:2275:U:C5'	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:451:A:H2'	1:0:452:G:H8	1.54	0.73
1:0:634:G:H2'	1:0:635:C:C6	2.24	0.73
1:0:1140:A:C8	1:0:2549:G:H1'	2.23	0.73
1:0:1459:U:H2'	1:0:1475:U:O2'	1.89	0.73
1:0:2407:G:H5''	1:0:2408:G:OP1	1.88	0.73
1:0:641:G:H4'	1:0:651:C:O2'	1.89	0.73
1:0:697:G:O2'	1:0:801:A:N6	2.20	0.73
1:0:719:A:H2'	1:0:720:A:O4'	1.89	0.73
1:0:1223:G:C6	1:0:1250:A:N6	2.55	0.73
1:0:1980:A:C2	1:0:1981:A:C5	2.76	0.73
1:0:66:U:N3	1:0:67:G:O6	2.22	0.72
1:0:105:G:H2'	1:0:106:G:H5'	1.70	0.72
1:0:111:G:H5'	1:0:112:U:OP1	1.89	0.72
1:0:317:U:C3'	1:0:318:G:H5''	2.18	0.72
1:0:1034:U:H2'	1:0:1035:G:O4'	1.89	0.72
1:0:1622:G:H4'	1:0:1624:A:C2	2.24	0.72
1:0:1715:A:C2'	1:0:1716:G:H3'	2.18	0.72
1:0:1807:A:H1'	1:0:1809:G:C8	2.24	0.72
1:0:224:G:C8	1:0:226:C:O2	2.42	0.72
1:0:359:G:H2'	1:0:360:A:H8	1.53	0.72
1:0:91:A:H2'	1:0:92:U:C6	2.23	0.72
1:0:579:G:C4'	1:0:994:A:C2	2.72	0.72
1:0:837:U:H3	1:0:846:A:N6	1.86	0.72
1:0:1177:U:N3	1:0:1197:U:O2	2.21	0.72
1:0:1314:A:H2	1:0:1642:G:N3	1.87	0.72
1:0:1386:A:H5''	1:0:2191:A:N6	2.05	0.72
1:0:1938:U:O2'	1:0:1939:U:OP1	2.05	0.72
1:0:1563:U:H2'	1:0:1564:U:C6	2.24	0.72
1:0:1764:A:C2'	1:0:1765:C:H5'	2.19	0.72
1:0:1713:G:C2	1:0:1714:A:H1'	2.25	0.72
1:0:2175:A:H2'	1:0:2176:U:C6	2.24	0.72
1:0:2470:U:O2	1:0:2470:U:H2'	1.89	0.72
1:0:162:C:H2'	1:0:163:A:H8	1.55	0.72
1:0:594:G:C6	1:0:1264:C:H5	2.08	0.72
1:0:1763:G:H2'	1:0:1764:A:H4'	1.71	0.72
1:0:2560:G:H1	1:0:2589:C:H5	1.35	0.72
1:0:616:U:C2'	1:0:617:U:H5''	2.20	0.72
1:0:2560:G:HO2'	1:0:2561:G:P	2.12	0.72
1:0:851:C:H2'	1:0:852:U:C6	2.24	0.72
1:0:1030:U:H5'	1:0:1031:C:OP2	1.89	0.72
1:0:1199:U:H5	1:0:1201:G:N7	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2560:G:N3	1:0:2560:G:H2'	2.05	0.72
1:0:321:A:C2	1:0:323:G:H1'	2.24	0.72
1:0:788:G:C2	1:0:800:U:C2'	2.68	0.72
1:0:788:G:H5''	1:0:790:A:H1'	1.70	0.72
1:0:857:U:C2'	1:0:858:G:H5'	2.20	0.72
1:0:2228:U:H4'	1:0:2229:G:OP1	1.90	0.72
1:0:2324:G:N7	1:0:2360:C:C2	2.58	0.72
1:0:490:A:O2'	1:0:491:A:H5'	1.88	0.71
1:0:594:G:C6	1:0:1264:C:C5	2.78	0.71
1:0:768:U:H2'	1:0:769:C:H6	1.53	0.71
1:0:842:A:H5''	1:0:843:G:OP1	1.89	0.71
1:0:1265:G:O2'	1:0:1266:G:O4'	2.07	0.71
1:0:1430:G:N2	1:0:1599:G:H1'	2.05	0.71
1:0:2158:C:H2'	1:0:2159:A:H8	1.52	0.71
1:0:2473:G:N2	1:0:2474:G:C4	2.57	0.71
1:0:2579:A:H2'	1:0:2580:C:C6	2.25	0.71
1:0:2645:C:H2'	1:0:2646:C:O4'	1.90	0.71
1:0:825:C:H1'	1:0:1263:G:N2	2.04	0.71
1:0:1057:A:H3'	1:0:1058:G:H5''	1.72	0.71
1:0:1329:U:H2'	1:0:1330:G:C8	2.24	0.71
1:0:1631:C:C2'	1:0:1632:A:C5'	2.68	0.71
1:0:2549:G:O2'	1:0:2550:C:H5'	1.90	0.71
1:0:2713:A:O2'	1:0:2714:A:H5'	1.89	0.71
1:0:109:A:C3'	1:0:110:U:H5''	2.20	0.71
1:0:1474:A:N1	1:0:1476:G:C5	2.57	0.71
1:0:2204:A:O2'	1:0:2205:C:OP2	2.08	0.71
1:0:2205:C:C2'	1:0:2206:C:H5'	2.20	0.71
1:0:2560:G:C2'	1:0:2561:G:OP2	2.39	0.71
1:0:498:C:C5	1:0:499:G:N7	2.58	0.71
1:0:501:G:H2'	1:0:502:A:C8	2.26	0.71
1:0:664:C:H5	1:0:666:U:H4'	1.54	0.71
1:0:812:G:H3'	1:0:813:A:C5'	2.20	0.71
1:0:1359:G:H5'	1:0:1359:G:C8	2.23	0.71
1:0:2824:C:O2	1:0:2843:A:N9	2.24	0.71
1:0:427:C:H1'	1:0:1856:U:H1'	1.71	0.71
1:0:812:G:H3'	1:0:813:A:H5''	1.72	0.71
1:0:1337:G:H4'	1:0:1632:A:H62	1.54	0.71
1:0:1337:G:N2	1:0:1344:C:C2	2.59	0.71
1:0:1627:C:N4	1:0:1628:C:H41	1.89	0.71
1:0:2015:G:N2	1:0:2038:C:C2	2.58	0.71
1:0:2448:A:C2'	1:0:2449:G:H5'	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2477:C:H3'	1:0:2477:C:C6	2.24	0.71
1:0:2503:G:C2'	1:0:2504:G:H5''	2.21	0.71
1:0:2503:G:C3'	1:0:2504:G:H5''	2.20	0.71
1:0:2825:A:H2'	1:0:2826:C:H6	1.55	0.71
1:0:167:A:C4	1:0:184:A:C2	2.79	0.71
1:0:688:A:O2'	1:0:689:A:H5'	1.90	0.71
1:0:872:G:O2'	1:0:873:U:H5''	1.89	0.71
1:0:71:A:O2'	1:0:72:A:OP1	2.07	0.71
1:0:1329:U:O2'	1:0:1330:G:H5'	1.90	0.71
1:0:112:U:H2'	1:0:112:U:O2	1.89	0.71
1:0:224:G:C6	1:0:229:G:O6	2.44	0.71
1:0:1147:G:O2'	1:0:1148:G:H5'	1.91	0.71
1:0:2563:U:H2'	1:0:2564:U:H5'	1.73	0.71
1:0:2728:A:H2'	1:0:2729:A:H8	1.55	0.71
1:0:540:G:N3	1:0:2004:U:O2'	2.23	0.71
1:0:2666:U:H2'	1:0:2667:C:O4'	1.90	0.71
1:0:2762:G:N2	1:0:2763:U:H1'	2.06	0.71
1:0:861:G:N7	1:0:862:A:N7	2.38	0.71
1:0:929:A:H5''	1:0:2247:A:H62	1.56	0.71
1:0:1611:U:H2'	1:0:1612:U:O4'	1.91	0.71
1:0:2728:A:H2'	1:0:2729:A:C8	2.26	0.71
1:0:402:A:C8	1:0:2392:G:H4'	2.26	0.70
1:0:483:A:H2'	1:0:484:G:H5'	1.71	0.70
1:0:1715:A:H1'	1:0:1717:A:C4'	2.21	0.70
1:0:1806:G:N7	1:0:1807:A:N7	2.39	0.70
1:0:221:A:C2	1:0:222:G:H1'	2.27	0.70
1:0:692:C:H2'	1:0:693:A:H8	1.55	0.70
1:0:746:G:N7	1:0:774:A:C6	2.60	0.70
1:0:764:A:C2	1:0:802:A:C4	2.80	0.70
1:0:1918:G:N2	1:0:1947:G:C8	2.59	0.70
1:0:236:C:H1'	1:0:632:A:O2'	1.92	0.70
1:0:357:A:C2	1:0:358:C:H4'	2.26	0.70
1:0:422:C:H2'	1:0:423:G:C8	2.26	0.70
1:0:1285:A:C2	1:0:1634:A:C5	2.80	0.70
1:0:1355:A:C8	1:0:1410:U:H1'	2.26	0.70
1:0:1685:A:N6	1:0:1693:A:H61	1.90	0.70
1:0:957:G:H2'	1:0:958:G:H8	1.56	0.70
1:0:2198:U:C2'	1:0:2199:C:H4'	2.20	0.70
1:0:2765:C:H2'	1:0:2766:U:C6	2.26	0.70
1:0:187:U:H2'	1:0:188:G:H8	1.55	0.70
1:0:545:C:O2'	1:0:546:A:H5'	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1904:G:H2'	1:0:1905:G:O4'	1.90	0.70
1:0:2448:A:H2'	1:0:2449:G:C5'	2.21	0.70
1:0:2672:U:O2'	1:0:2673:G:H5'	1.90	0.70
1:0:105:G:H2'	1:0:106:G:C5'	2.21	0.70
1:0:1068:A:H2'	1:0:1069:G:C8	2.26	0.70
1:0:1715:A:C2'	1:0:1716:G:H5''	2.21	0.70
1:0:1949:A:H1'	1:0:2572:U:H5'	1.73	0.70
1:0:2634:G:N3	1:0:2643:G:O6	2.25	0.70
1:0:38:G:H1	1:0:453:U:H3	1.37	0.70
1:0:58:C:H3'	1:0:59:G:H5''	1.72	0.70
1:0:68:C:O2	1:0:68:C:C2'	2.39	0.70
1:0:69:G:H4'	1:0:70:A:OP1	1.91	0.70
1:0:946:U:O2'	1:0:947:C:H5'	1.91	0.70
1:0:1931:G:O2'	1:0:1932:G:H5'	1.92	0.70
1:0:2161:C:H2'	1:0:2162:C:C6	2.27	0.70
1:0:2832:G:N2	1:0:2835:A:OP2	2.23	0.70
1:0:48:A:N3	1:0:50:G:N2	2.40	0.70
1:0:682:G:N3	1:0:682:G:H2'	2.07	0.70
1:0:1894:U:O5'	1:0:1894:U:H6	1.75	0.70
1:0:2197:U:H2'	1:0:2198:U:C6	2.27	0.70
1:0:2543:A:C6	1:0:2626:U:H4'	2.27	0.70
1:0:10:A:H2'	1:0:11:G:C8	2.26	0.70
1:0:1278:A:O2'	1:0:1279:G:O5'	2.08	0.70
1:0:171:G:O2'	1:0:172:A:H5'	1.91	0.70
1:0:459:A:C2	1:0:466:A:N7	2.60	0.70
1:0:470:U:C5	1:0:480:G:N2	2.60	0.70
1:0:994:A:H62	1:0:995:A:H2	1.40	0.70
1:0:1452:U:H5'	1:0:1532:A:O2'	1.91	0.70
1:0:2040:A:C5	1:0:2041:A:N7	2.59	0.70
1:0:2104:G:O2'	1:0:2105:U:H5'	1.91	0.70
1:0:2522:G:H5'	1:0:2522:G:H8	1.55	0.70
1:0:2769:C:C5	1:0:2770:A:H1'	2.27	0.70
1:0:568:G:H2'	1:0:569:C:O4'	1.92	0.69
1:0:1736:C:H2'	1:0:1737:G:H8	1.56	0.69
1:0:2633:A:N1	1:0:2644:A:H5''	2.07	0.69
1:0:427:C:H2'	1:0:428:A:C8	2.27	0.69
1:0:929:A:H8	1:0:2247:A:N6	1.90	0.69
1:0:1179:A:H2'	1:0:1180:A:O4'	1.92	0.69
1:0:1438:G:N2	1:0:1590:C:H2'	2.07	0.69
1:0:1865:C:H2'	1:0:1866:G:H5'	1.73	0.69
1:0:322:A:O4'	1:0:343:A:N3	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:665:A:H3'	1:0:666:U:C5'	2.22	0.69
1:0:862:A:H2'	1:0:863:C:H6	1.57	0.69
1:0:1260:A:C6	1:0:1262:U:H1'	2.27	0.69
1:0:2705:A:H8	1:0:2705:A:H5''	1.57	0.69
1:0:691:C:H2'	1:0:692:C:H6	1.57	0.69
1:0:1463:A:H1'	1:0:1543:G:N2	2.07	0.69
1:0:2014:A:H62	1:0:2477:C:C1'	2.05	0.69
1:0:2040:A:C4	1:0:2041:A:C8	2.80	0.69
1:0:30:G:O2'	1:0:31:C:H5'	1.92	0.69
1:0:173:A:C4	1:0:818:G:N2	2.61	0.69
1:0:441:A:C2'	1:0:442:A:H5'	2.22	0.69
1:0:403:A:H1'	1:0:424:G:N2	2.08	0.69
1:0:1242:A:O2'	1:0:1243:G:H5'	1.92	0.69
1:0:1257:U:H2'	1:0:1258:G:H8	1.58	0.69
1:0:2007:G:O2'	1:0:2008:C:H5'	1.92	0.69
1:0:37:C:H4'	1:0:463:C:OP1	1.93	0.69
1:0:177:U:C5	1:0:225:G:N3	2.61	0.69
1:0:621:U:H2'	1:0:622:U:H6	1.57	0.69
1:0:929:A:H5''	1:0:2247:A:N6	2.08	0.69
1:0:1299:A:C6	1:0:1302:C:N3	2.61	0.69
1:0:1856:U:H2'	1:0:1857:G:O4'	1.93	0.69
1:0:2285:U:O2	1:0:2285:U:H2'	1.93	0.69
1:0:2320:G:H2'	1:0:2321:C:O4'	1.92	0.69
1:0:83:A:H2	1:0:101:A:C5	2.10	0.69
1:0:704:G:H2'	1:0:705:C:C6	2.25	0.69
1:0:1004:A:C5	1:0:1005:U:C5	2.80	0.69
1:0:1057:A:H3'	1:0:1058:G:C5'	2.22	0.69
1:0:1260:A:N6	1:0:1262:U:H1'	2.07	0.69
1:0:1349:A:H2'	1:0:1350:G:C8	2.27	0.69
1:0:1501:C:O2'	1:0:1502:G:H5'	1.92	0.69
1:0:1797:C:H2'	1:0:1798:G:O4'	1.92	0.69
1:0:2404:A:O2'	1:0:2405:A:OP2	2.10	0.69
1:0:2468:G:H1'	1:0:2497:A:H61	1.57	0.69
1:0:2634:G:H2'	1:0:2643:G:O6	1.91	0.69
1:0:2756:A:H4'	1:0:2758:A:OP1	1.93	0.69
1:0:587:A:H2'	1:0:588:G:H5''	1.75	0.69
1:0:2634:G:N3	1:0:2634:G:H2'	2.08	0.69
1:0:424:G:H4'	1:0:424:G:OP1	1.92	0.69
1:0:1479:G:H21	1:0:1543:G:H21	1.38	0.69
1:0:2468:G:H2'	1:0:2469:G:O4'	1.92	0.69
1:0:503:G:H2'	1:0:504:G:O4'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:600:G:H3'	1:0:601:A:C5'	2.22	0.68
1:0:788:G:H22	1:0:800:U:C3'	1.96	0.68
1:0:1310:C:H2'	1:0:1311:C:C6	2.27	0.68
1:0:1958:G:H2'	1:0:1959:U:H6	1.55	0.68
1:0:793:G:C2	1:0:795:A:C2	2.81	0.68
1:0:1608:U:H2'	1:0:1609:G:H8	1.56	0.68
1:0:83:A:H4'	1:0:84:G:O5'	1.91	0.68
1:0:166:G:N2	1:0:183:U:H5	1.92	0.68
1:0:313:U:O2'	1:0:314:G:H5'	1.94	0.68
1:0:591:G:C3'	1:0:592:G:H8	2.01	0.68
1:0:1002:C:H5'	1:0:1199:U:OP1	1.94	0.68
1:0:1886:G:H2'	1:0:1887:G:H8	1.58	0.68
1:0:2705:A:O2'	1:0:2706:U:OP1	2.12	0.68
1:0:573:C:H2'	1:0:574:C:O4'	1.92	0.68
1:0:1139:A:O2'	1:0:1140:A:O4'	2.08	0.68
1:0:1404:C:N3	1:0:1407:G:C6	2.61	0.68
1:0:1693:A:C2	1:0:1976:U:H5'	2.28	0.68
1:0:2523:G:O2'	1:0:2524:G:H5'	1.92	0.68
1:0:2564:U:O2	1:0:2564:U:C2'	2.42	0.68
1:0:26:G:C2	1:0:27:G:N2	2.61	0.68
1:0:531:G:H2'	1:0:532:A:H8	1.57	0.68
1:0:757:U:O2	1:0:767:G:C2	2.46	0.68
1:0:1466:C:H2'	1:0:1467:U:O4'	1.92	0.68
1:0:2030:U:O2'	1:0:2031:A:H5'	1.94	0.68
1:0:2040:A:C4	1:0:2041:A:N7	2.62	0.68
1:0:754:G:C4	1:0:755:C:H5	2.11	0.68
1:0:836:G:H2'	1:0:837:U:C6	2.29	0.68
1:0:1040:A:C8	1:0:1041:G:C8	2.81	0.68
1:0:1404:C:O2	1:0:1406:A:N7	2.27	0.68
1:0:1729:C:H2'	1:0:1730:G:C8	2.28	0.68
1:0:2398:U:H2'	1:0:2399:C:C6	2.29	0.68
1:0:319:G:H1'	1:0:511:A:O4'	1.94	0.68
1:0:2756:A:H2'	1:0:2757:G:OP2	1.93	0.68
1:0:2809:A:N7	1:0:2854:G:C6	2.61	0.68
1:0:674:U:H2'	1:0:675:C:O4'	1.93	0.68
1:0:787:A:C4	1:0:788:G:N7	2.61	0.68
1:0:1430:G:H22	1:0:1599:G:H1'	1.58	0.68
1:0:2029:G:H2'	1:0:2030:U:C6	2.29	0.68
1:0:2746:G:H2'	1:0:2746:G:N3	2.08	0.68
1:0:66:U:H2'	1:0:67:G:N7	2.09	0.68
1:0:972:C:C5	1:0:2014:A:H2	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1572:C:C2'	1:0:1573:G:H5''	2.23	0.68
1:0:2043:A:O2'	1:0:2481:G:O4'	2.08	0.68
1:0:2074:U:O4	1:0:2075:U:H5	1.77	0.68
1:0:2158:C:H2'	1:0:2159:A:C8	2.28	0.68
1:0:2482:A:H5''	1:0:2483:U:OP2	1.94	0.68
1:0:2557:G:H2'	1:0:2558:C:C6	2.28	0.68
1:0:708:G:OP1	1:0:1393:G:O2'	2.12	0.68
1:0:861:G:H1'	1:0:944:A:N3	2.08	0.68
1:0:2178:U:O2'	1:0:2179:C:H5'	1.94	0.68
1:0:2352:A:H2'	1:0:2353:G:H8	1.58	0.68
1:0:357:A:C2'	1:0:358:C:H5'	2.20	0.67
1:0:441:A:O2'	1:0:442:A:H5'	1.94	0.67
1:0:501:G:H2'	1:0:502:A:H8	1.58	0.67
1:0:813:A:HO2'	1:0:814:G:P	2.16	0.67
1:0:1743:C:H5'	1:0:2836:U:O2'	1.93	0.67
1:0:1745:C:H2'	1:0:1746:A:H8	1.57	0.67
1:0:976:C:H5'	1:0:2252:A:H1'	1.75	0.67
1:0:1819:U:OP1	1:0:1954:A:H4'	1.93	0.67
1:0:1912:G:H2'	1:0:1912:G:N3	2.09	0.67
1:0:2484:G:OP2	3:0:2881:G80:H11A	1.94	0.67
1:0:222:G:N2	1:0:231:G:H1'	2.10	0.67
1:0:329:C:O2'	1:0:330:C:H5'	1.95	0.67
1:0:362:C:H2'	1:0:363:G:H4'	1.75	0.67
1:0:466:A:O2'	1:0:467:U:P	2.53	0.67
1:0:816:U:O2'	1:0:817:A:H5'	1.93	0.67
1:0:972:C:C4	1:0:2014:A:H2	2.12	0.67
1:0:1451:C:H2'	1:0:1452:U:H6	1.58	0.67
1:0:1920:A:N1	1:0:1922:U:H5	1.92	0.67
1:0:2482:A:H4'	1:0:2483:U:OP1	1.93	0.67
1:0:2698:G:H2'	1:0:2699:G:C8	2.30	0.67
1:0:2699:G:O2'	1:0:2700:U:O5'	2.12	0.67
1:0:2754:C:N4	1:0:2755:A:N6	2.43	0.67
1:0:202:A:C2	1:0:203:G:H1'	2.29	0.67
1:0:340:G:OP2	1:0:340:G:H8	1.76	0.67
1:0:455:A:H2	1:0:1258:G:N3	1.93	0.67
1:0:594:G:N1	1:0:1264:C:C5	2.60	0.67
1:0:1588:A:H2'	1:0:1589:G:H8	1.59	0.67
1:0:2395:C:C2'	1:0:2396:C:H5''	2.23	0.67
1:0:105:G:C2'	1:0:106:G:H5'	2.25	0.67
1:0:807:A:C2	1:0:808:C:C2	2.83	0.67
1:0:1621:C:H4'	1:0:1626:A:N6	2.05	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1911:A:C2'	1:0:1912:G:H5'	2.24	0.67
1:0:1439:G:O5'	1:0:1440:G:OP1	2.12	0.67
1:0:2094:C:O2	1:0:2094:C:H2'	1.95	0.67
1:0:2755:A:O2'	1:0:2756:A:H5''	1.94	0.67
1:0:1791:C:O2'	1:0:1792:C:OP2	2.12	0.67
1:0:664:C:H2'	1:0:665:A:C8	2.30	0.67
1:0:1365:U:H1'	1:0:1586:A:C2	2.29	0.67
1:0:1781:C:H2'	1:0:1782:A:C8	2.28	0.67
1:0:2402:U:H4'	1:0:2404:A:N7	2.10	0.67
1:0:93:A:O2'	1:0:94:C:H5'	1.94	0.67
1:0:572:G:H1	1:0:2001:G:H1'	1.58	0.67
1:0:1724:C:N3	1:0:1747:G:C6	2.63	0.67
1:0:1882:G:N2	1:0:1885:C:N4	2.43	0.67
1:0:2565:C:H2'	1:0:2566:A:C5'	2.25	0.67
1:0:2694:G:O2'	1:0:2695:C:H5'	1.95	0.67
1:0:572:G:N1	1:0:2001:G:H1'	2.10	0.67
1:0:616:U:H2'	1:0:617:U:C5'	2.24	0.67
1:0:777:A:O2'	1:0:778:G:OP1	2.12	0.67
1:0:976:C:O2'	1:0:977:G:H5'	1.94	0.67
1:0:1142:G:O2'	1:0:1143:A:O5'	2.12	0.67
1:0:1468:A:C8	1:0:1468:A:OP2	2.48	0.67
1:0:1654:A:H4'	1:0:2690:A:O2'	1.94	0.67
1:0:2432:A:O2'	1:0:2433:G:H5'	1.95	0.67
1:0:2533:U:H2'	1:0:2534:U:C6	2.30	0.67
1:0:2808:U:H2'	1:0:2808:U:O2	1.95	0.67
1:0:2825:A:N3	1:0:2826:C:C6	2.63	0.67
1:0:27:G:H1'	1:0:523:A:H62	1.56	0.66
1:0:541:C:N4	1:0:572:G:C8	2.63	0.66
1:0:1896:A:H2'	1:0:1899:A:N6	2.08	0.66
1:0:2471:U:H2'	1:0:2472:U:C5	2.30	0.66
1:0:68:C:C2	1:0:72:A:N3	2.63	0.66
1:0:136:A:H2'	1:0:137:A:O4'	1.95	0.66
1:0:428:A:H2'	1:0:429:C:C6	2.30	0.66
1:0:836:G:H2'	1:0:837:U:H6	1.61	0.66
1:0:1474:A:O2'	1:0:1475:U:H5'	1.95	0.66
1:0:2311:U:C5'	1:0:2315:A:H61	2.06	0.66
1:0:2498:U:C4'	1:0:2499:C:OP1	2.42	0.66
1:0:2532:G:C2	1:0:2533:U:H1'	2.30	0.66
1:0:2544:A:H2'	1:0:2545:A:C1'	2.23	0.66
1:0:2573:C:H2'	1:0:2574:G:H5'	1.77	0.66
1:0:2594:U:C2	1:0:2595:C:C5	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:362:C:C4	1:0:363:G:H1'	2.30	0.66
1:0:687:G:H2'	1:0:817:A:H61	1.59	0.66
1:0:956:A:C2	1:0:2427:A:N3	2.63	0.66
1:0:1139:A:O2'	1:0:1140:A:O5'	2.13	0.66
1:0:1287:A:N1	1:0:1315:A:H2	1.92	0.66
1:0:1566:G:O2'	1:0:1567:A:H5'	1.94	0.66
1:0:1871:G:H3'	1:0:1871:G:N3	2.10	0.66
1:0:2437:G:O2'	1:0:2438:A:N7	2.26	0.66
1:0:442:A:H2'	1:0:443:A:C8	2.30	0.66
1:0:1305:C:H2'	1:0:1306:U:H6	1.59	0.66
1:0:1921:A:C2'	1:0:1922:U:H5''	2.25	0.66
1:0:2621:G:O2'	1:0:2622:G:H5'	1.95	0.66
1:0:68:C:H2'	1:0:72:A:H1'	1.78	0.66
1:0:671:A:H2'	1:0:672:C:C6	2.31	0.66
1:0:1288:A:N6	1:0:1309:G:O4'	2.29	0.66
1:0:1337:G:C4'	1:0:1632:A:H62	2.09	0.66
1:0:1745:C:C4	1:0:1746:A:N7	2.64	0.66
1:0:2824:C:O2	1:0:2843:A:C4	2.48	0.66
1:0:216:U:H2'	1:0:217:U:C6	2.31	0.66
1:0:581:A:C2	1:0:2016:A:C2	2.83	0.66
1:0:833:A:N3	1:0:954:U:O2'	2.28	0.66
1:0:994:A:N7	1:0:995:A:C2	2.64	0.66
1:0:2630:C:H2'	1:0:2631:C:H6	1.60	0.66
1:0:2756:A:N6	1:0:2762:G:C4	2.64	0.66
1:0:163:A:H2'	1:0:164:G:H8	1.61	0.66
1:0:428:A:H2'	1:0:429:C:O4'	1.95	0.66
1:0:540:G:C6	1:0:2006:G:OP1	2.49	0.66
1:0:885:A:H2'	1:0:886:A:H8	1.60	0.66
1:0:914:C:O2'	1:0:915:C:H5'	1.95	0.66
1:0:1287:A:C6	1:0:1315:A:H2	2.14	0.66
1:0:1629:G:C5	1:0:1633:C:C4	2.84	0.66
1:0:1656:U:C2'	1:0:1657:A:H5''	2.26	0.66
1:0:2015:G:H5''	1:0:2016:A:OP2	1.96	0.66
1:0:2194:A:C2'	1:0:2195:C:H5''	2.26	0.66
1:0:18:U:H2'	1:0:19:C:H6	1.60	0.66
1:0:186:C:H2'	1:0:187:U:O4'	1.95	0.66
1:0:224:G:H4'	1:0:399:G:C6	2.31	0.66
1:0:581:A:N6	1:0:582:G:C6	2.64	0.66
1:0:1445:A:H2'	1:0:1446:U:O4'	1.95	0.66
1:0:1451:C:H2'	1:0:1452:U:C6	2.31	0.66
1:0:1690:U:H2'	1:0:1691:G:C5'	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:169:C:C5	1:0:170:U:O2	2.48	0.66
1:0:175:C:N4	1:0:225:G:N1	2.44	0.66
1:0:754:G:C4	1:0:755:C:C5	2.83	0.66
1:0:914:C:H2'	1:0:915:C:H6	1.61	0.66
1:0:1745:C:C2	1:0:1746:A:C8	2.84	0.66
1:0:1818:G:H2'	1:0:1819:U:H6	1.60	0.66
1:0:2345:A:H8	1:0:2345:A:O5'	1.77	0.66
1:0:2565:C:C2'	1:0:2566:A:C5'	2.73	0.66
1:0:68:C:O2'	1:0:72:A:H1'	1.96	0.66
1:0:564:U:H2'	1:0:565:A:C8	2.31	0.66
1:0:631:G:H8	1:0:631:G:O5'	1.78	0.66
1:0:665:A:H3'	1:0:666:U:H5''	1.77	0.66
1:0:1338:G:H4'	1:0:1339:U:OP1	1.95	0.66
1:0:1373:G:H2'	1:0:1374:G:H5'	1.78	0.66
1:0:1734:C:C5	1:0:1735:G:H1'	2.31	0.66
1:0:2026:C:OP2	1:0:2759:U:O4	2.12	0.66
1:0:2594:U:H2'	1:0:2595:C:C6	2.31	0.66
1:0:68:C:C2'	1:0:72:A:H1'	2.26	0.65
1:0:179:U:H2'	1:0:180:C:H6	1.60	0.65
1:0:227:G:H2'	1:0:228:A:H8	1.58	0.65
1:0:531:G:H2'	1:0:532:A:C8	2.30	0.65
1:0:859:U:H1'	1:0:860:U:N3	2.10	0.65
1:0:1036:G:H8	1:0:1036:G:OP1	1.79	0.65
1:0:1110:G:H2'	1:0:1111:C:C6	2.31	0.65
1:0:1686:A:C2'	1:0:1687:C:H5'	2.25	0.65
1:0:2080:U:H2'	1:0:2081:U:C6	2.31	0.65
1:0:587:A:C2'	1:0:588:G:H5''	2.25	0.65
1:0:1151:U:H5''	1:0:1153:A:P	2.36	0.65
1:0:1153:A:O2'	1:0:1154:A:H3'	1.97	0.65
1:0:1191:G:H2'	1:0:1192:A:C8	2.30	0.65
1:0:1305:C:H2'	1:0:1306:U:C6	2.30	0.65
1:0:1736:C:H2'	1:0:1737:G:C8	2.31	0.65
1:0:1966:C:O2	1:0:1966:C:H2'	1.96	0.65
1:0:2372:A:O2'	1:0:2373:C:H5'	1.96	0.65
1:0:2621:G:N2	1:0:2622:G:C4	2.63	0.65
1:0:2757:G:OP2	1:0:2761:A:O2'	2.12	0.65
1:0:587:A:OP1	1:0:1268:U:O2'	2.09	0.65
1:0:1154:A:H4'	1:0:1155:G:OP2	1.97	0.65
1:0:1621:C:Cl'	1:0:1626:A:N7	2.59	0.65
1:0:1773:C:OP1	1:0:1774:A:OP2	2.13	0.65
1:0:1802:A:H2'	1:0:1803:G:H5'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1987:G:C5	1:0:1988:A:C8	2.85	0.65
1:0:2059:U:O2'	1:0:2060:A:OP1	2.13	0.65
1:0:2372:A:H2'	1:0:2373:C:O4'	1.97	0.65
1:0:2573:C:C2'	1:0:2574:G:H5'	2.26	0.65
1:0:2733:A:C2'	1:0:2734:U:H5'	2.26	0.65
1:0:2807:U:O2'	1:0:2809:A:C4	2.49	0.65
1:0:134:G:H2'	1:0:135:U:H5''	1.79	0.65
1:0:171:G:H2'	1:0:172:A:C5'	2.26	0.65
1:0:224:G:N2	1:0:227:G:H3'	2.12	0.65
1:0:1171:A:H2'	1:0:1172:U:H6	1.61	0.65
1:0:1432:G:H2'	1:0:1594:U:O4	1.95	0.65
1:0:1473:U:H4'	1:0:1474:A:C8	2.32	0.65
1:0:2491:C:H2'	1:0:2492:G:O4'	1.96	0.65
1:0:2585:C:H2'	1:0:2586:G:H5'	1.78	0.65
1:0:225:G:C2	1:0:2410:U:H4'	2.32	0.65
1:0:501:G:H2'	1:0:502:A:O4'	1.96	0.65
1:0:788:G:N2	1:0:801:A:OP2	2.29	0.65
1:0:926:C:H2'	1:0:927:C:C5'	2.27	0.65
1:0:984:A:H1'	1:0:1202:U:C5	2.31	0.65
1:0:1383:C:H2'	1:0:1384:G:C8	2.27	0.65
1:0:1488:G:C4	1:0:1536:G:N2	2.64	0.65
1:0:2076:G:H2'	1:0:2077:G:H8	1.62	0.65
1:0:2229:G:N2	1:0:2475:C:H5''	2.12	0.65
1:0:2324:G:N3	1:0:2326:C:C5	2.64	0.65
1:0:2645:C:H3'	1:0:2646:C:H6	1.62	0.65
1:0:2859:U:H2'	1:0:2860:C:H5'	1.78	0.65
1:0:57:G:N2	1:0:69:G:C4	2.64	0.65
1:0:594:G:C2	1:0:1264:C:N4	2.65	0.65
1:0:987:G:H2'	1:0:988:G:H8	1.61	0.65
1:0:1222:G:O2'	1:0:1225:G:H4'	1.97	0.65
1:0:1223:G:O2'	1:0:1224:A:OP2	2.10	0.65
1:0:1378:A:H2'	1:0:1379:A:C8	2.32	0.65
1:0:1463:A:O2'	1:0:1464:A:H5'	1.97	0.65
1:0:1714:A:H62	1:0:1715:A:N6	1.95	0.65
1:0:2034:A:C6	1:0:2593:A:C5	2.85	0.65
1:0:2048:C:H1'	1:0:2428:U:H3	1.62	0.65
1:0:2076:G:H2'	1:0:2077:G:C8	2.32	0.65
1:0:2564:U:HO2'	1:0:2565:C:H5'	1.57	0.65
1:0:177:U:O2	1:0:178:C:C1'	2.45	0.65
1:0:583:C:H1'	1:0:2038:C:H6	1.59	0.65
1:0:653:G:N2	1:0:657:A:N6	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:846:A:N7	1:0:847:C:C5	2.65	0.65
1:0:973:U:H2'	1:0:974:U:O4'	1.96	0.65
1:0:1789:U:O2'	1:0:1793:A:H1'	1.97	0.65
1:0:2330:G:C2	1:0:2344:G:C6	2.84	0.65
1:0:582:G:N1	1:0:2014:A:OP2	2.22	0.65
1:0:976:C:C1'	1:0:2252:A:C2	2.78	0.65
1:0:1147:G:H2'	1:0:1148:G:C8	2.27	0.65
1:0:1265:G:C2	1:0:1266:G:N2	2.64	0.65
1:0:1282:A:H2'	1:0:1283:C:H6	1.62	0.65
1:0:1409:U:H5''	1:0:1410:U:OP2	1.96	0.65
1:0:1830:C:N4	1:0:1881:U:H3'	2.12	0.65
1:0:2204:A:H4'	1:0:2205:C:O5'	1.97	0.65
1:0:2226:A:H2'	1:0:2227:C:H6	1.62	0.65
1:0:2558:C:C2'	1:0:2559:U:H5'	2.26	0.65
1:0:2849:C:O2'	1:0:2850:U:H5'	1.97	0.65
1:0:198:A:N7	1:0:243:G:C5	2.65	0.64
1:0:366:U:H2'	1:0:367:G:C8	2.31	0.64
1:0:1734:C:C4	1:0:1735:G:H1'	2.31	0.64
1:0:2369:U:H3'	1:0:2369:U:C6	2.29	0.64
1:0:2574:G:N2	1:0:2577:A:OP2	2.26	0.64
1:0:318:G:N2	1:0:341:A:H62	1.92	0.64
1:0:664:C:H2'	1:0:665:A:H8	1.61	0.64
1:0:787:A:O2'	1:0:788:G:C5'	2.45	0.64
1:0:1002:C:C4	1:0:1003:C:H5	2.14	0.64
1:0:1384:G:N2	1:0:1385:C:H41	1.94	0.64
1:0:1393:G:H21	1:0:1586:A:H61	1.45	0.64
1:0:1535:C:N3	1:0:1536:G:C2	2.64	0.64
1:0:514:G:H3'	1:0:514:G:N3	2.13	0.64
1:0:588:G:O2'	1:0:2002:A:OP1	2.15	0.64
1:0:706:A:O2'	1:0:707:U:H5'	1.97	0.64
1:0:873:U:O2	1:0:2246:A:H5''	1.98	0.64
1:0:1685:A:N7	1:0:1691:G:C6	2.64	0.64
1:0:2557:G:H2'	1:0:2558:C:H6	1.60	0.64
1:0:2838:U:H2'	1:0:2839:G:H8	1.62	0.64
1:0:651:C:H42	1:0:658:G:H1	1.44	0.64
1:0:1191:G:H2'	1:0:1192:A:H8	1.62	0.64
1:0:2205:C:H2'	1:0:2206:C:C5'	2.28	0.64
1:0:2705:A:O2'	1:0:2706:U:H6	1.75	0.64
1:0:487:G:H4'	1:0:512:A:N1	2.13	0.64
1:0:637:G:C8	1:0:637:G:C3'	2.81	0.64
1:0:788:G:C2'	1:0:807:A:C8	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:824:U:H3'	1:0:824:U:H6	1.63	0.64
1:0:1058:G:H2'	1:0:1121:G:C2	2.32	0.64
1:0:1406:A:H2'	1:0:1407:G:H8	1.61	0.64
1:0:1621:C:H1'	1:0:1626:A:C8	2.33	0.64
1:0:1675:C:C2	1:0:1676:U:C5	2.85	0.64
1:0:1774:A:C2	1:0:2566:A:C4	2.86	0.64
1:0:1869:A:H2'	1:0:1870:U:O4'	1.96	0.64
1:0:465:C:O2'	1:0:467:U:H1'	1.98	0.64
1:0:482:A:C2'	1:0:483:A:H5'	2.27	0.64
1:0:814:G:O2'	1:0:815:A:OP1	2.11	0.64
1:0:1019:U:O2	1:0:1019:U:H2'	1.96	0.64
1:0:1523:A:H8	1:0:1523:A:O5'	1.79	0.64
1:0:2845:C:C4	1:0:2846:G:N7	2.65	0.64
1:0:26:G:C6	1:0:27:G:N1	2.65	0.64
1:0:83:A:C2	1:0:101:A:C5	2.86	0.64
1:0:1088:A:H2'	1:0:1089:C:O4'	1.98	0.64
1:0:1288:A:N6	1:0:1309:G:H5'	2.13	0.64
1:0:1770:U:C4	1:0:1774:A:H2'	2.31	0.64
1:0:1976:U:H2'	1:0:1976:U:O2	1.96	0.64
1:0:1055:A:N6	1:0:1123:G:H1'	2.12	0.64
1:0:1468:A:H8	1:0:1468:A:P	2.21	0.64
1:0:1757:C:O2	1:0:1970:G:C2	2.51	0.64
1:0:2015:G:N3	1:0:2015:G:H2'	2.11	0.64
1:0:2240:C:H2'	1:0:2241:U:H5'	1.79	0.64
1:0:2270:U:O2'	1:0:2353:G:N3	2.31	0.64
1:0:2662:C:C2'	1:0:2663:U:H5'	2.28	0.64
1:0:2824:C:H4'	1:0:2825:A:H5'	1.80	0.64
1:0:2873:G:H2'	1:0:2874:A:H8	1.63	0.64
1:0:930:A:N7	1:0:931:G:H1'	2.12	0.64
1:0:1055:A:N1	1:0:1122:A:H5'	2.13	0.64
1:0:1096:A:O2'	1:0:1115:C:H1'	1.97	0.64
1:0:1281:A:N6	1:0:1995:G:H1'	2.13	0.64
1:0:1333:G:N2	1:0:1344:C:H41	1.93	0.64
1:0:1973:C:N3	1:0:1974:U:C4	2.66	0.64
1:0:2229:G:H21	1:0:2476:A:P	2.21	0.64
1:0:741:G:O6	1:0:743:A:N6	2.31	0.64
1:0:1664:G:H5''	1:0:1665:C:OP1	1.98	0.64
1:0:1683:G:O6	1:0:1684:G:C2	2.51	0.64
1:0:2039:G:N2	1:0:2040:A:C8	2.65	0.64
1:0:2529:G:N2	1:0:2530:C:C2	2.66	0.64
1:0:2608:A:O2'	1:0:2609:G:O5'	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:877:G:O2'	1:0:878:C:H5'	1.98	0.63
1:0:1055:A:C2	1:0:1121:G:H2'	2.33	0.63
1:0:1333:G:N7	1:0:1342:U:H5'	2.13	0.63
1:0:1345:G:N7	1:0:1625:A:N6	2.46	0.63
1:0:1923:U:C5'	1:0:1924:C:OP1	2.46	0.63
1:0:1982:C:O2'	1:0:1983:G:H5'	1.97	0.63
1:0:717:G:H2'	1:0:739:G:H22	1.62	0.63
1:0:741:G:O2'	1:0:742:G:P	2.55	0.63
1:0:751:G:O2'	1:0:752:G:O5'	2.07	0.63
1:0:2037:A:C2	1:0:2595:C:N3	2.67	0.63
1:0:2039:G:N2	1:0:2040:A:C4	2.66	0.63
1:0:2164:G:H2'	1:0:2165:A:O4'	1.98	0.63
1:0:2418:A:H5''	1:0:2419:C:P	2.38	0.63
1:0:2418:A:C1'	1:0:2565:C:HO2'	2.06	0.63
1:0:2424:G:H2'	1:0:2425:G:H5'	1.78	0.63
1:0:2834:A:H2'	1:0:2835:A:C8	2.33	0.63
1:0:177:U:O2	1:0:177:U:H2'	1.98	0.63
1:0:539:A:N6	1:0:2024:U:H3	1.96	0.63
1:0:838:A:H2'	1:0:839:U:O4'	1.98	0.63
1:0:878:C:H4'	1:0:879:A:N7	2.14	0.63
1:0:1177:U:H2'	1:0:1178:C:C6	2.34	0.63
1:0:1749:G:O2'	1:0:1750:A:OP1	2.15	0.63
1:0:2311:U:H5'	1:0:2315:A:N6	2.06	0.63
1:0:2543:A:H8	1:0:2543:A:O5'	1.81	0.63
1:0:115:G:C6	1:0:117:A:N6	2.67	0.63
1:0:736:G:H2'	1:0:737:C:O4'	1.98	0.63
1:0:955:G:C8	1:0:955:G:C3'	2.80	0.63
1:0:1394:G:H2'	1:0:1395:A:H8	1.62	0.63
1:0:1465:G:O6	1:0:1476:G:O6	2.16	0.63
1:0:1571:G:O2'	1:0:1572:C:H5'	1.98	0.63
1:0:1625:A:N3	1:0:1625:A:C3'	2.61	0.63
1:0:2433:G:O2'	1:0:2434:G:H5'	1.98	0.63
1:0:246:C:H42	1:0:247:A:H62	1.46	0.63
1:0:1314:A:O2'	1:0:1315:A:H3'	1.99	0.63
1:0:2564:U:O2	1:0:2564:U:H2'	1.97	0.63
1:0:20:C:H2'	1:0:21:A:H8	1.63	0.63
1:0:367:G:C2'	1:0:368:A:H5''	2.29	0.63
1:0:648:A:H5'	1:0:649:G:O5'	1.99	0.63
1:0:1422:C:H2'	1:0:1423:A:C8	2.34	0.63
1:0:1435:G:N2	1:0:1508:G:H21	1.96	0.63
1:0:1622:G:H4'	1:0:1624:A:N3	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1947:G:H2'	1:0:1950:C:OP1	1.98	0.63
1:0:2796:A:OP2	2:B:110:GLY:CA	2.47	0.63
1:0:428:A:H2'	1:0:429:C:H6	1.62	0.63
1:0:797:A:H5'	1:0:798:G:OP1	1.98	0.63
1:0:862:A:H2'	1:0:863:C:C6	2.32	0.63
1:0:1233:A:O2'	1:0:1234:C:OP1	2.13	0.63
1:0:1624:A:N6	1:0:1627:C:C2	2.67	0.63
1:0:2014:A:C5	1:0:2477:C:H1'	2.33	0.63
1:0:25:U:N3	1:0:26:G:C2	2.67	0.63
1:0:1212:U:H2'	1:0:1213:U:C6	2.34	0.63
1:0:1288:A:H2'	1:0:1289:A:O4'	1.98	0.63
1:0:1380:C:H2'	1:0:1381:G:H5'	1.80	0.63
1:0:2225:G:H2'	1:0:2226:A:H8	1.62	0.63
1:0:2427:A:H4'	1:0:2428:U:OP2	1.99	0.63
1:0:2489:C:C4	1:0:2490:U:C5	2.87	0.63
1:0:2557:G:OP1	1:0:2593:A:N6	2.32	0.63
1:0:2613:A:H2'	1:0:2614:A:H8	1.64	0.63
1:0:2810:A:N6	1:0:2854:G:C5	2.67	0.63
1:0:566:U:H2'	1:0:567:G:H8	1.64	0.63
1:0:1458:A:C3'	1:0:1459:U:C5'	2.64	0.63
1:0:1682:A:C2'	1:0:1683:G:H5'	2.29	0.63
1:0:1753:A:O5'	1:0:1753:A:H8	1.80	0.63
1:0:1928:G:C2	1:0:1929:U:C2	2.87	0.63
1:0:1969:G:N2	1:0:1970:G:C4	2.67	0.63
1:0:2198:U:H3'	1:0:2199:C:C5'	2.28	0.63
1:0:2562:G:H2'	1:0:2563:U:H5'	1.80	0.63
1:0:2758:A:H4'	1:0:2759:U:OP2	1.98	0.63
1:0:391:C:C2'	1:0:392:G:H5'	2.29	0.62
1:0:639:G:H2'	1:0:640:C:C6	2.33	0.62
1:0:1404:C:O2	1:0:1404:C:H2'	1.98	0.62
1:0:1766:U:H2'	1:0:1767:G:O4'	1.99	0.62
1:0:1766:U:C2'	1:0:1767:G:H5'	2.29	0.62
1:0:2585:C:C2'	1:0:2586:G:H5'	2.29	0.62
1:0:2627:G:O2'	1:0:2628:C:H5'	1.98	0.62
1:0:541:C:H3'	1:0:542:A:O4'	1.99	0.62
1:0:672:C:O2'	1:0:673:G:H5'	2.00	0.62
1:0:677:G:C4'	1:0:951:G:H5''	2.29	0.62
1:0:1377:G:O2'	1:0:1799:A:C2	2.47	0.62
1:0:1819:U:O2	1:0:1820:G:H1'	1.98	0.62
1:0:2359:U:O4	1:0:2360:C:N4	2.32	0.62
1:0:2563:U:O2'	1:0:2564:U:H5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:13:A:H5''	1:0:14:A:OP1	1.99	0.62
1:0:474:G:C6	1:0:478:G:O6	2.51	0.62
1:0:490:A:O2'	1:0:491:A:C5'	2.47	0.62
1:0:840:U:H4'	1:0:841:G:N2	2.14	0.62
1:0:939:C:H2'	1:0:940:G:N7	2.14	0.62
1:0:1071:U:H3'	1:0:1072:U:C5'	2.28	0.62
1:0:1391:A:O2'	1:0:1392:U:P	2.57	0.62
1:0:2007:G:H2'	1:0:2008:C:H6	1.64	0.62
1:0:2665:G:C2	1:0:2666:U:O2	2.52	0.62
1:0:2790:C:H2'	1:0:2791:C:H6	1.63	0.62
1:0:1210:C:H2'	1:0:1211:G:C8	2.35	0.62
1:0:1215:A:C2	1:0:1258:G:C4	2.87	0.62
1:0:1406:A:C8	1:0:1407:G:N7	2.67	0.62
1:0:1631:C:O2'	1:0:1632:A:P	2.57	0.62
1:0:1766:U:H2'	1:0:1767:G:C5'	2.29	0.62
1:0:2463:G:O2'	1:0:2464:G:H5'	1.98	0.62
1:0:541:C:H41	1:0:572:G:C1'	2.12	0.62
1:0:754:G:N3	1:0:755:C:C5	2.67	0.62
1:0:775:U:H5'	1:0:776:G:OP1	1.99	0.62
1:0:1281:A:H61	1:0:1995:G:H1'	1.63	0.62
1:0:1908:C:H2'	1:0:1909:U:C4'	2.14	0.62
1:0:1920:A:C6	1:0:1922:U:C5	2.87	0.62
1:0:2198:U:C2	1:0:2199:C:H1'	2.34	0.62
1:0:2565:C:H2'	1:0:2566:A:H5'	1.81	0.62
1:0:2673:G:N2	1:0:2674:C:C2	2.67	0.62
1:0:2810:A:N7	1:0:2854:G:N7	2.47	0.62
1:0:493:A:OP2	1:0:517:A:N6	2.32	0.62
1:0:498:C:H2'	1:0:499:G:H8	1.65	0.62
1:0:976:C:O4'	1:0:2252:A:N3	2.33	0.62
1:0:1621:C:O2'	1:0:1626:A:N7	2.28	0.62
1:0:2222:U:C2	1:0:2223:U:C5	2.88	0.62
1:0:2756:A:O2'	1:0:2757:G:P	2.56	0.62
1:0:1376:C:H2'	1:0:1377:G:H8	1.64	0.62
1:0:1439:G:H2'	1:0:1440:G:C4	2.34	0.62
1:0:1573:G:O6	1:0:1574:A:N6	2.32	0.62
1:0:1659:G:O2'	1:0:1660:G:H5'	1.98	0.62
1:0:2346:G:O2'	1:0:2347:C:H5'	1.99	0.62
1:0:468:A:O2'	1:0:469:G:H4'	2.00	0.62
1:0:510:G:N3	1:0:512:A:OP2	2.33	0.62
1:0:541:C:N4	1:0:572:G:O4'	2.33	0.62
1:0:1830:C:H42	1:0:1881:U:H2'	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:208:C:H2'	1:0:209:G:O4'	2.00	0.62
1:0:359:G:H2'	1:0:360:A:C8	2.34	0.62
1:0:638:A:O2'	1:0:639:G:H5'	2.00	0.62
1:0:765:C:HO2'	1:0:766:A:H8	1.42	0.62
1:0:1440:G:C3'	1:0:1441:A:C5'	2.78	0.62
1:0:1669:A:N6	1:0:1670:G:N1	2.48	0.62
1:0:1714:A:N6	1:0:1715:A:N1	2.48	0.62
1:0:2656:G:O2'	1:0:2657:G:H5'	1.99	0.62
1:0:2729:A:N6	1:0:2730:A:H62	1.98	0.62
1:0:861:G:N7	1:0:862:A:C5	2.68	0.62
1:0:1793:A:H2'	1:0:1794:A:C8	2.34	0.62
1:0:2553:G:H2'	1:0:2554:C:C5'	2.30	0.62
1:0:173:A:N3	1:0:173:A:C2'	2.63	0.61
1:0:473:C:C4	1:0:474:G:N7	2.68	0.61
1:0:603:C:H2'	1:0:604:U:C6	2.35	0.61
1:0:649:G:H2'	1:0:650:U:H6	1.63	0.61
1:0:846:A:C8	1:0:847:C:C5	2.88	0.61
1:0:971:A:C2'	1:0:972:C:H5'	2.29	0.61
1:0:987:G:H4'	1:0:1167:A:N7	2.15	0.61
1:0:1287:A:N3	1:0:1310:C:H1'	2.14	0.61
1:0:1376:C:H2'	1:0:1377:G:C8	2.35	0.61
1:0:1594:U:H2'	1:0:1595:A:C8	2.34	0.61
1:0:2781:G:H2'	1:0:2782:G:H1'	1.81	0.61
1:0:2787:A:H2'	1:0:2788:C:H6	1.64	0.61
1:0:777:A:HO2'	1:0:778:G:P	2.23	0.61
1:0:955:G:H3'	1:0:955:G:H8	1.62	0.61
1:0:2526:U:C4	1:0:2545:A:N7	2.69	0.61
1:0:2720:A:C8	1:0:2743:G:N2	2.68	0.61
1:0:342:G:O2'	1:0:343:A:OP1	2.17	0.61
1:0:538:A:C8	1:0:538:A:C3'	2.71	0.61
1:0:765:C:O2'	1:0:766:A:C8	2.52	0.61
1:0:1005:U:O2	1:0:1007:A:N7	2.33	0.61
1:0:1287:A:N1	1:0:1661:C:O2'	2.30	0.61
1:0:1466:C:C2'	1:0:1467:U:H5'	2.31	0.61
1:0:1714:A:H2'	1:0:1714:A:N3	2.15	0.61
1:0:1982:C:OP1	1:0:2704:U:H5'	1.99	0.61
1:0:2040:A:C3'	1:0:2041:A:H8	2.12	0.61
1:0:2074:U:H3'	1:0:2075:U:C5'	2.31	0.61
1:0:2240:C:H2'	1:0:2241:U:C5'	2.30	0.61
1:0:2477:C:C6	1:0:2477:C:C3'	2.82	0.61
1:0:2733:A:H2'	1:0:2734:U:H5'	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2753:C:H2'	1:0:2754:C:H6	1.65	0.61
1:0:2810:A:N6	1:0:2854:G:N7	2.48	0.61
1:0:752:G:H5'	1:0:753:U:OP1	2.01	0.61
1:0:774:A:H8	1:0:774:A:O5'	1.82	0.61
1:0:957:G:O2'	1:0:958:G:H5'	2.01	0.61
1:0:1234:C:O2	1:0:1242:A:N1	2.33	0.61
1:0:1431:U:H2'	1:0:1432:G:O4'	2.00	0.61
1:0:2274:C:H2'	1:0:2275:U:H5'	1.81	0.61
1:0:2377:U:H6	1:0:2377:U:O5'	1.83	0.61
1:0:2405:A:H2'	1:0:2406:C:OP1	2.01	0.61
1:0:2558:C:O2'	1:0:2559:U:C5'	2.30	0.61
1:0:483:A:C2'	1:0:484:G:H5'	2.29	0.61
1:0:741:G:HO2'	1:0:742:G:P	2.24	0.61
1:0:831:G:C2'	1:0:832:A:H5''	2.30	0.61
1:0:1287:A:C6	1:0:1315:A:C2	2.88	0.61
1:0:1327:C:O5'	1:0:1327:C:H6	1.83	0.61
1:0:1341:G:H2'	1:0:1343:C:C5	2.36	0.61
1:0:1460:G:OP2	1:0:1475:U:O2	2.19	0.61
1:0:2023:C:O2'	1:0:2024:U:H5'	1.99	0.61
1:0:2040:A:C1'	1:0:2041:A:C8	2.84	0.61
1:0:2197:U:H2'	1:0:2198:U:C5	2.35	0.61
1:0:2326:C:O2'	1:0:2327:U:H5'	2.00	0.61
1:0:131:C:O2'	1:0:132:U:H5'	2.01	0.61
1:0:202:A:N6	1:0:203:G:C2	2.68	0.61
1:0:788:G:C5'	1:0:790:A:H1'	2.31	0.61
1:0:1991:C:H2'	1:0:1992:G:C8	2.29	0.61
1:0:2277:A:H2'	1:0:2278:A:O4'	2.00	0.61
1:0:2382:C:O2	1:0:2382:C:C2'	2.49	0.61
1:0:2426:G:O2'	1:0:2427:A:P	2.58	0.61
1:0:24:G:N2	1:0:25:U:H1'	2.15	0.61
1:0:330:C:H2'	1:0:331:U:C5'	2.30	0.61
1:0:791:G:N2	1:0:800:U:C2	2.68	0.61
1:0:1245:G:O2'	1:0:1246:G:H5'	2.01	0.61
1:0:1259:A:H2'	1:0:1260:A:H5'	1.81	0.61
1:0:1554:G:H2'	1:0:1555:A:C8	2.36	0.61
1:0:2039:G:H2'	1:0:2039:G:N3	2.14	0.61
1:0:2254:C:O2'	1:0:2255:G:OP2	2.17	0.61
1:0:180:C:C2	1:0:181:A:N7	2.69	0.61
1:0:1391:A:O2'	1:0:1392:U:C6	2.53	0.61
1:0:1656:U:O2'	1:0:1657:A:H5''	2.00	0.61
1:0:1706:A:C6	1:0:1714:A:C2	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2565:C:HO2'	1:0:2566:A:C5'	2.13	0.61
1:0:58:C:H1'	1:0:72:A:C8	2.35	0.61
1:0:67:G:N1	1:0:72:A:C2	2.69	0.61
1:0:95:G:H2'	1:0:96:C:C6	2.36	0.61
1:0:930:A:N7	1:0:931:G:C1'	2.64	0.61
1:0:1087:C:H2'	1:0:1088:A:O4'	2.00	0.61
1:0:1283:C:O2'	1:0:1665:C:OP2	2.14	0.61
1:0:2418:A:C4	1:0:2565:C:H4'	2.35	0.61
1:0:2674:C:C2	1:0:2675:U:C5	2.89	0.61
1:0:671:A:H2'	1:0:672:C:H6	1.66	0.61
1:0:1137:A:H5''	1:0:1138:A:OP1	2.01	0.61
1:0:1248:G:C2	1:0:1249:G:N2	2.69	0.61
1:0:1469:U:H5'	1:0:1470:G:OP2	2.01	0.61
1:0:1552:C:C2'	1:0:1553:G:H5'	2.28	0.61
1:0:1723:U:C5	1:0:1748:U:OP2	2.54	0.61
1:0:1932:G:C2	1:0:1941:C:N3	2.69	0.61
1:0:2343:C:O2'	1:0:2344:G:H5'	2.01	0.61
1:0:2450:A:N6	1:0:2451:G:C2	2.68	0.61
1:0:172:A:N7	1:0:175:C:C5	2.55	0.60
1:0:789:G:H4'	1:0:790:A:O4'	2.01	0.60
1:0:819:C:O3'	1:0:843:G:N2	2.33	0.60
1:0:1618:U:H3'	1:0:1618:U:H6	1.66	0.60
1:0:1711:C:O2'	1:0:1712:G:H5''	2.01	0.60
1:0:1992:G:O2'	1:0:1993:G:H5'	2.01	0.60
1:0:2029:G:H2'	1:0:2030:U:H6	1.64	0.60
1:0:2040:A:H2'	1:0:2041:A:O4'	2.01	0.60
1:0:2083:G:H2'	1:0:2084:G:O4'	2.00	0.60
1:0:2522:G:H2'	1:0:2523:G:H8	1.66	0.60
1:0:2662:C:H2'	1:0:2663:U:H5'	1.81	0.60
1:0:66:U:C2	1:0:67:G:O6	2.54	0.60
1:0:199:A:N7	1:0:201:G:C8	2.69	0.60
1:0:225:G:O5'	1:0:226:C:H5''	2.01	0.60
1:0:762:A:C6	1:0:1634:A:C2	2.89	0.60
1:0:843:G:H1'	1:0:2427:A:N1	2.16	0.60
1:0:1399:C:H2'	1:0:1400:A:H8	1.66	0.60
1:0:2050:G:H5''	1:0:2051:U:OP2	2.00	0.60
1:0:2514:G:N2	1:0:2515:G:H1'	2.16	0.60
1:0:490:A:N7	1:0:492:G:C4	2.70	0.60
1:0:536:A:N1	1:0:2605:C:H4'	2.17	0.60
1:0:754:G:C2	1:0:755:C:C5	2.88	0.60
1:0:758:G:N2	1:0:766:A:C5	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:942:U:H2'	1:0:943:U:O5'	2.00	0.60
1:0:1359:G:C6	1:0:1617:G:C6	2.89	0.60
1:0:1629:G:C6	1:0:1635:G:C6	2.89	0.60
1:0:1715:A:N3	1:0:1717:A:C1'	2.64	0.60
1:0:1834:G:H2'	1:0:1835:C:C6	2.36	0.60
1:0:1838:G:H2'	1:0:1839:A:O4'	2.00	0.60
1:0:1872:A:N3	1:0:2069:U:O2'	2.34	0.60
1:0:2674:C:H2'	1:0:2675:U:H6	1.65	0.60
1:0:1211:G:H2'	1:0:1212:U:H6	1.65	0.60
1:0:1370:U:H2'	1:0:1371:G:O4'	2.02	0.60
1:0:2198:U:H2'	1:0:2199:C:H4'	1.82	0.60
1:0:2318:U:H2'	1:0:2319:G:C8	2.36	0.60
1:0:2522:G:H2'	1:0:2523:G:C8	2.36	0.60
1:0:2630:C:O2'	1:0:2631:C:H5'	2.02	0.60
1:0:2839:G:C5	1:0:2840:U:C4	2.89	0.60
1:0:318:G:N1	1:0:321:A:OP2	2.32	0.60
1:0:623:G:H5'	1:0:626:A:N6	2.16	0.60
1:0:686:C:C2'	1:0:687:G:H5'	2.31	0.60
1:0:859:U:O2	1:0:944:A:N6	2.34	0.60
1:0:959:C:H2'	1:0:960:U:C6	2.35	0.60
1:0:1079:G:O2'	1:0:1080:A:H5'	2.01	0.60
1:0:1220:G:O2'	1:0:1221:C:H5'	2.01	0.60
1:0:1263:G:H4'	1:0:1264:C:OP1	2.00	0.60
1:0:1629:G:C8	1:0:1633:C:N4	2.69	0.60
1:0:1715:A:H1'	1:0:1717:A:H4'	1.84	0.60
1:0:1975:G:O2'	1:0:1976:U:OP2	2.16	0.60
1:0:2705:A:C5	1:0:2707:G:C8	2.90	0.60
1:0:214:C:O2	1:0:618:A:O2'	2.17	0.60
1:0:638:A:C5	1:0:647:G:N2	2.70	0.60
1:0:873:U:N3	1:0:2246:A:O3'	2.35	0.60
1:0:987:G:H2'	1:0:988:G:C8	2.36	0.60
1:0:1631:C:H3'	1:0:1631:C:H6	1.64	0.60
1:0:1763:G:H2'	1:0:1764:A:C4'	2.30	0.60
1:0:2047:C:H1'	1:0:2429:A:N1	2.16	0.60
1:0:2261:G:N2	1:0:2404:A:C8	2.69	0.60
1:0:2760:G:O2'	1:0:2761:A:P	2.59	0.60
1:0:415:A:H2'	1:0:416:U:H5'	1.83	0.60
1:0:640:C:H5''	1:0:660:G:O2'	2.02	0.60
1:0:649:G:N2	1:0:660:G:N2	2.49	0.60
1:0:1313:U:O2'	1:0:1314:A:P	2.59	0.60
1:0:1435:G:O2'	1:0:1436:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1777:A:HO2'	1:0:1778:U:P	2.25	0.60
1:0:2396:C:H2'	1:0:2397:A:H5'	1.83	0.60
1:0:2474:G:O2'	1:0:2475:C:H5'	2.02	0.60
1:0:2560:G:O2'	1:0:2561:G:O5'	2.15	0.60
1:0:2694:G:C2'	1:0:2695:C:H5'	2.32	0.60
1:0:105:G:O2'	1:0:106:G:H5'	2.02	0.60
1:0:177:U:O2	1:0:178:C:C6	2.55	0.60
1:0:459:A:H4'	1:0:461:A:C8	2.37	0.60
1:0:539:A:O2'	1:0:540:G:O5'	2.19	0.60
1:0:648:A:H4'	1:0:649:G:O4'	2.01	0.60
1:0:677:G:H4'	1:0:951:G:H5''	1.83	0.60
1:0:704:G:O2'	1:0:705:C:H5'	2.02	0.60
1:0:768:U:H2'	1:0:769:C:C6	2.36	0.60
1:0:1624:A:N7	1:0:1627:C:C4	2.70	0.60
1:0:1947:G:H2'	1:0:1950:C:P	2.41	0.60
1:0:2338:C:N4	1:0:2339:A:N6	2.50	0.60
1:0:2522:G:H2'	1:0:2523:G:O4'	2.02	0.60
1:0:2645:C:H3'	1:0:2646:C:C6	2.36	0.60
1:0:659:G:H2'	1:0:660:G:H8	1.66	0.60
1:0:659:G:H2'	1:0:660:G:C8	2.37	0.60
1:0:1019:U:O2	1:0:1019:U:C2'	2.50	0.60
1:0:1249:G:C8	1:0:1249:G:OP2	2.55	0.60
1:0:1745:C:H2'	1:0:1746:A:C8	2.36	0.60
1:0:2014:A:H4'	1:0:2014:A:OP1	2.02	0.60
1:0:2398:U:H2'	1:0:2399:C:H6	1.64	0.60
1:0:2616:U:O2	1:0:2762:G:C2	2.55	0.60
1:0:2692:A:C5'	1:0:2693:U:H5'	2.32	0.60
1:0:65:C:C2'	1:0:66:U:H5'	2.32	0.60
1:0:222:G:H22	1:0:231:G:H1'	1.66	0.60
1:0:1035:G:H5''	1:0:1037:U:OP1	2.02	0.60
1:0:1948:C:C6	1:0:1949:A:N7	2.70	0.60
1:0:1997:A:H2'	1:0:1998:A:C8	2.37	0.60
1:0:2043:A:H1'	1:0:2481:G:C1'	2.32	0.60
1:0:2309:G:H2'	1:0:2310:G:O4'	2.01	0.60
1:0:415:A:C2'	1:0:416:U:H5'	2.32	0.59
1:0:698:A:C4	1:0:702:A:N6	2.70	0.59
1:0:1285:A:C2	1:0:1634:A:C6	2.90	0.59
1:0:2405:A:OP1	1:0:2405:A:C8	2.55	0.59
1:0:2737:A:C2'	1:0:2738:A:H5'	2.23	0.59
1:0:73:A:N3	1:0:73:A:H5''	2.17	0.59
1:0:530:G:O2'	1:0:531:G:H5'	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:571:U:O2	1:0:581:A:C1'	2.50	0.59
1:0:617:U:C6	1:0:632:A:N6	2.70	0.59
1:0:1181:C:H3'	1:0:1182:U:H5''	1.83	0.59
1:0:1384:G:N2	1:0:1385:C:N4	2.50	0.59
1:0:1393:G:N3	1:0:1393:G:H2'	2.16	0.59
1:0:1463:A:C1'	1:0:1543:G:N2	2.66	0.59
1:0:1528:C:C3'	1:0:1529:C:H5''	2.26	0.59
1:0:1845:A:N6	1:0:1872:A:N7	2.50	0.59
1:0:2324:G:C2	1:0:2326:C:N4	2.66	0.59
1:0:2697:G:O2'	1:0:2698:G:C5'	2.50	0.59
1:0:1332:G:O2'	1:0:1333:G:H5'	2.02	0.59
1:0:1435:G:N1	1:0:1436:G:C2	2.71	0.59
1:0:1690:U:C2'	1:0:1691:G:H5'	2.32	0.59
1:0:2040:A:H2'	1:0:2041:A:N9	2.11	0.59
1:0:2271:C:H4'	1:0:2354:G:O4'	2.02	0.59
1:0:2667:C:N4	1:0:2699:G:H2'	2.18	0.59
1:0:104:C:C2'	1:0:105:G:H5''	2.30	0.59
1:0:199:A:N6	1:0:201:G:C6	2.71	0.59
1:0:317:U:C2'	1:0:318:G:H5''	2.32	0.59
1:0:441:A:H2'	1:0:442:A:O4'	2.02	0.59
1:0:697:G:C6	1:0:788:G:C5	2.91	0.59
1:0:828:C:H2'	1:0:829:C:C6	2.37	0.59
1:0:1016:C:H4'	1:0:1023:U:C2	2.37	0.59
1:0:1073:G:C2'	1:0:1074:G:H4'	2.32	0.59
1:0:1254:G:H2'	1:0:1255:A:H8	1.65	0.59
1:0:1670:G:H21	1:0:1988:A:N6	1.99	0.59
1:0:1737:G:H2'	1:0:1738:U:H6	1.67	0.59
1:0:146:C:H2'	1:0:147:G:C8	2.37	0.59
1:0:585:U:H2'	1:0:586:G:C8	2.37	0.59
1:0:699:G:C5'	1:0:700:C:OP2	2.49	0.59
1:0:931:G:O2'	1:0:932:G:H5'	2.03	0.59
1:0:1159:U:H2'	1:0:1160:C:H6	1.67	0.59
1:0:1774:A:C2	1:0:2566:A:C8	2.90	0.59
1:0:2043:A:O2'	1:0:2481:G:O5'	2.19	0.59
1:0:2397:A:H2'	1:0:2398:U:C6	2.38	0.59
1:0:66:U:C2	1:0:67:G:N7	2.70	0.59
1:0:162:C:H2'	1:0:163:A:C8	2.36	0.59
1:0:172:A:C2	1:0:227:G:N2	2.57	0.59
1:0:2654:A:N1	1:0:2712:G:O6	2.35	0.59
1:0:211:U:O2	1:0:211:U:H2'	2.01	0.59
1:0:246:C:H42	1:0:247:A:N6	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:508:G:O2'	1:0:509:U:H5'	2.03	0.59
1:0:1635:G:N1	1:0:1636:G:C5	2.71	0.59
1:0:1783:G:N2	1:0:1820:G:HO2'	2.01	0.59
1:0:2293:G:H2'	1:0:2294:U:C6	2.38	0.59
1:0:2803:C:O2'	1:0:2804:G:H5'	2.03	0.59
1:0:1485:U:H2'	1:0:1486:A:C8	2.38	0.59
1:0:1638:G:N2	1:0:1639:U:C2	2.70	0.59
1:0:2274:C:H2'	1:0:2275:U:H5''	1.85	0.59
1:0:2309:G:N2	1:0:2365:U:C2	2.70	0.59
1:0:2372:A:H2'	1:0:2373:C:C6	2.38	0.59
1:0:2787:A:O2'	1:0:2788:C:H5'	2.02	0.59
1:0:343:A:N7	1:0:346:C:C4	2.70	0.59
1:0:441:A:H2'	1:0:442:A:H5'	1.83	0.59
1:0:475:U:C6	1:0:801:A:C2	2.90	0.59
1:0:1686:A:C2	1:0:1977:C:H1'	2.36	0.59
1:0:2053:G:H2'	1:0:2054:A:H8	1.63	0.59
1:0:2060:A:OP2	1:0:2217:G:O6	2.20	0.59
1:0:2270:U:O2'	1:0:2353:G:H1'	2.02	0.59
1:0:2372:A:H2'	1:0:2373:C:H6	1.68	0.59
1:0:2441:U:O2'	1:0:2442:C:H5'	2.02	0.59
1:0:2443:C:C2	1:0:2466:G:N2	2.71	0.59
1:0:2586:G:H2'	1:0:2587:G:O4'	2.02	0.59
1:0:2761:A:H5''	1:0:2762:G:C5'	2.30	0.59
1:0:490:A:O2'	1:0:491:A:H3'	2.03	0.59
1:0:510:G:H8	1:0:510:G:O5'	1.86	0.59
1:0:764:A:N3	1:0:802:A:N3	2.50	0.59
1:0:1074:G:H2'	1:0:1074:G:N3	2.16	0.59
1:0:1199:U:C3'	1:0:1200:G:H5''	2.31	0.59
1:0:1649:A:H8	1:0:1649:A:O5'	1.85	0.59
1:0:1778:U:H5'	1:0:2568:A:O2'	2.03	0.59
1:0:2229:G:N2	1:0:2475:C:O3'	2.36	0.59
1:0:199:A:N6	1:0:201:G:C5	2.71	0.58
1:0:322:A:H3'	1:0:323:G:H8	1.68	0.58
1:0:685:U:O2'	1:0:686:C:H5'	2.03	0.58
1:0:789:G:N2	1:0:2220:A:OP1	2.36	0.58
1:0:1036:G:N3	1:0:1145:C:O4'	2.36	0.58
1:0:1066:G:H3'	1:0:1067:G:C5'	2.33	0.58
1:0:1203:A:H2'	1:0:1203:A:N3	2.16	0.58
1:0:1495:G:H2'	1:0:1496:G:C8	2.38	0.58
1:0:1669:A:N6	1:0:1670:G:C6	2.71	0.58
1:0:2161:C:H2'	1:0:2162:C:C5	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2606:G:C4	1:0:2757:G:N2	2.71	0.58
1:0:2705:A:H8	1:0:2705:A:C5'	2.15	0.58
1:0:2726:U:O5'	1:0:2726:U:H6	1.86	0.58
1:0:2738:A:H2'	1:0:2738:A:N3	2.18	0.58
1:0:166:G:N2	1:0:183:U:C5	2.71	0.58
1:0:317:U:H3'	1:0:318:G:C5'	2.34	0.58
1:0:832:A:N7	1:0:1202:U:N3	2.51	0.58
1:0:1834:G:H2'	1:0:1835:C:H6	1.69	0.58
1:0:2332:G:C6	1:0:2344:G:N2	2.71	0.58
1:0:2369:U:C6	1:0:2369:U:C3'	2.86	0.58
1:0:2486:C:O5'	1:0:2486:C:H6	1.86	0.58
1:0:2713:A:H2'	1:0:2714:A:C8	2.34	0.58
1:0:10:A:C6	1:0:2608:A:C2	2.90	0.58
1:0:58:C:H3'	1:0:59:G:C5'	2.33	0.58
1:0:169:C:H2'	1:0:170:U:H5'	1.83	0.58
1:0:204:A:N6	1:0:2386:G:C8	2.71	0.58
1:0:322:A:O2'	1:0:323:G:P	2.61	0.58
1:0:947:C:H2'	1:0:948:C:C6	2.38	0.58
1:0:1327:C:C2	1:0:1352:G:N2	2.71	0.58
1:0:1715:A:H1'	1:0:1717:A:O4'	2.03	0.58
1:0:1800:A:H5''	1:0:1801:C:OP1	2.04	0.58
1:0:2457:A:H1'	1:0:2508:G:C8	2.37	0.58
1:0:2565:C:O2'	1:0:2566:A:C5'	2.39	0.58
1:0:2786:G:H2'	1:0:2787:A:H8	1.67	0.58
1:0:2827:G:C6	1:0:2828:C:N3	2.72	0.58
1:0:940:G:N7	1:0:941:U:H6	2.00	0.58
1:0:1174:G:N3	1:0:1175:A:C8	2.71	0.58
1:0:1793:A:H2'	1:0:1794:A:H8	1.68	0.58
1:0:1953:A:C2'	1:0:1954:A:OP2	2.51	0.58
1:0:2594:U:H2'	1:0:2595:C:H6	1.66	0.58
1:0:58:C:N4	1:0:73:A:N6	2.50	0.58
1:0:173:A:O2'	1:0:174:A:OP1	2.19	0.58
1:0:226:C:O2'	1:0:227:G:H5''	2.03	0.58
1:0:318:G:N2	1:0:341:A:N6	2.50	0.58
1:0:594:G:N3	1:0:1264:C:N4	2.48	0.58
1:0:772:G:C5	1:0:773:G:N7	2.72	0.58
1:0:789:G:O2'	1:0:790:A:P	2.62	0.58
1:0:829:C:C2	1:0:1206:G:C2	2.90	0.58
1:0:972:C:C6	1:0:2014:A:H2	2.20	0.58
1:0:1055:A:H62	1:0:1123:G:H1'	1.68	0.58
1:0:1973:C:H2'	1:0:1974:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2177:U:H2'	1:0:2178:U:H6	1.67	0.58
1:0:2266:A:H2'	1:0:2268:G:C8	2.38	0.58
1:0:2513:A:C2	1:0:2514:G:H1'	2.38	0.58
1:0:2754:C:H2'	1:0:2755:A:H8	1.68	0.58
1:0:673:G:H2'	1:0:674:U:C6	2.39	0.58
1:0:739:G:HO2'	1:0:740:A:P	2.26	0.58
1:0:773:G:C2'	1:0:774:A:H5'	2.33	0.58
1:0:789:G:O6	1:0:2055:G:OP1	2.22	0.58
1:0:1330:G:C2'	1:0:1331:G:O5'	2.50	0.58
1:0:1921:A:O2'	1:0:1922:U:H5''	2.03	0.58
1:0:2043:A:C1'	1:0:2481:G:C1'	2.81	0.58
1:0:2526:U:H2'	1:0:2527:G:H8	1.68	0.58
1:0:16:G:C6	1:0:535:U:N3	2.72	0.58
1:0:180:C:N3	1:0:181:A:N6	2.44	0.58
1:0:343:A:N6	1:0:346:C:C2	2.71	0.58
1:0:742:G:H4'	1:0:776:G:O5'	2.04	0.58
1:0:1199:U:C5	1:0:1200:G:N7	2.71	0.58
1:0:1340:C:H42	1:0:1664:G:N2	2.02	0.58
1:0:1358:C:OP2	1:0:1358:C:H6	1.87	0.58
1:0:1436:G:N7	1:0:1437:A:C5	2.72	0.58
1:0:1542:G:H21	1:0:1561:A:H62	1.52	0.58
1:0:2026:C:C5	1:0:2757:G:H1'	2.38	0.58
1:0:2547:C:H2'	1:0:2548:G:O4'	2.03	0.58
1:0:2754:C:H2'	1:0:2755:A:C8	2.38	0.58
1:0:2873:G:H2'	1:0:2874:A:C8	2.38	0.58
1:0:104:C:H2'	1:0:105:G:C5'	2.33	0.58
1:0:236:C:H2'	1:0:237:G:H8	1.67	0.58
1:0:442:A:C6	1:0:443:A:N6	2.72	0.58
1:0:828:C:H2'	1:0:829:C:H6	1.69	0.58
1:0:830:C:H2'	1:0:831:G:H8	1.68	0.58
1:0:1141:U:O2	1:0:2008:C:H5''	2.04	0.58
1:0:1859:A:H2'	1:0:1860:A:H8	1.69	0.58
1:0:2011:U:H2'	1:0:2012:A:O4'	2.02	0.58
1:0:2407:G:H5'	1:0:2408:G:C2	2.38	0.58
1:0:2411:A:C5	1:0:2412:A:N7	2.72	0.58
1:0:2487:G:C2	1:0:2561:G:C6	2.91	0.58
1:0:2576:G:C6	1:0:2577:A:N6	2.72	0.58
1:0:2809:A:N7	1:0:2854:G:O6	2.35	0.58
1:0:839:U:H5''	1:0:2408:G:P	2.44	0.58
1:0:1860:A:H2'	1:0:1861:G:H5'	1.85	0.58
1:0:173:A:H2'	1:0:2051:U:H5	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:567:G:N2	1:0:568:G:C4	2.72	0.58
1:0:818:G:C5	1:0:2051:U:OP1	2.57	0.58
1:0:1354:A:O5'	1:0:1410:U:C4	2.56	0.58
1:0:1465:G:C2	1:0:1466:C:C2	2.92	0.58
1:0:1501:C:H2'	1:0:1502:G:O4'	2.03	0.58
1:0:1931:G:C2'	1:0:1932:G:H5'	2.34	0.58
1:0:2085:G:H2'	1:0:2086:U:C6	2.39	0.58
1:0:2839:G:H2'	1:0:2840:U:H6	1.63	0.58
1:0:421:G:H2'	1:0:422:C:H6	1.68	0.57
1:0:469:G:N2	1:0:481:A:OP2	2.37	0.57
1:0:874:A:H2'	1:0:875:G:O4'	2.04	0.57
1:0:1514:C:OP2	1:0:1593:C:H5''	2.04	0.57
1:0:1854:G:H1	1:0:1863:U:H3	1.52	0.57
1:0:1859:A:H2'	1:0:1860:A:C8	2.39	0.57
1:0:1953:A:H1'	1:0:1955:G:C1'	2.34	0.57
1:0:2497:A:H5''	1:0:2498:U:OP2	2.04	0.57
1:0:340:G:H1'	1:0:488:A:H1'	1.87	0.57
1:0:399:G:H4'	1:0:400:U:C5	2.39	0.57
1:0:421:G:O2'	1:0:422:C:H5'	2.04	0.57
1:0:582:G:O6	1:0:2013:A:H3'	2.03	0.57
1:0:742:G:C5'	1:0:776:G:O5'	2.51	0.57
1:0:813:A:C2	1:0:815:A:H8	2.23	0.57
1:0:1226:A:C1'	1:0:1250:A:C2	2.87	0.57
1:0:1304:U:O2'	1:0:1305:C:H5'	2.05	0.57
1:0:1406:A:H2'	1:0:1407:G:C8	2.40	0.57
1:0:1437:A:C8	1:0:1438:G:N7	2.73	0.57
1:0:1802:A:C2'	1:0:1803:G:H5'	2.34	0.57
1:0:2010:G:H2'	1:0:2011:U:C6	2.38	0.57
1:0:2172:U:HO2'	1:0:2173:G:H5'	1.68	0.57
1:0:2309:G:N2	1:0:2365:U:O2	2.37	0.57
1:0:2329:C:O2'	1:0:2330:G:H5'	2.05	0.57
1:0:2405:A:C2'	1:0:2406:C:OP1	2.52	0.57
1:0:2493:U:O2	1:0:2493:U:H2'	2.03	0.57
1:0:2499:C:C6	1:0:2546:G:H1'	2.39	0.57
1:0:2825:A:C8	1:0:2844:G:O4'	2.57	0.57
1:0:26:G:N1	1:0:27:G:N2	2.52	0.57
1:0:201:G:O2'	1:0:202:A:H5'	2.04	0.57
1:0:212:U:O2	1:0:443:A:C2	2.57	0.57
1:0:622:U:C2'	1:0:623:G:H5'	2.34	0.57
1:0:653:G:H21	1:0:657:A:H61	1.52	0.57
1:0:805:G:N7	1:0:2419:C:C1'	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1698:C:H4'	1:0:1699:A:OP1	2.04	0.57
1:0:1714:A:H5'	1:0:1715:A:H5''	1.84	0.57
1:0:1826:U:O4'	1:0:1952:A:C2	2.57	0.57
1:0:1981:A:C6	1:0:1982:C:N4	2.72	0.57
1:0:2286:G:H2'	1:0:2286:G:N3	2.18	0.57
1:0:2699:G:H8	1:0:2699:G:O5'	1.87	0.57
1:0:2815:C:O2'	1:0:2816:C:H5'	2.03	0.57
1:0:56:C:H2'	1:0:57:G:O4'	2.04	0.57
1:0:649:G:H2'	1:0:650:U:C6	2.39	0.57
1:0:1002:C:C4	1:0:1003:C:C5	2.93	0.57
1:0:1033:G:O2'	1:0:1034:U:P	2.61	0.57
1:0:1110:G:H2'	1:0:1111:C:O4'	2.05	0.57
1:0:2509:A:H2'	1:0:2510:A:H5''	1.86	0.57
1:0:2565:C:C2'	1:0:2565:C:O2	2.53	0.57
1:0:2589:C:H5'	1:0:2590:U:C5'	2.29	0.57
1:0:25:U:H2'	1:0:26:G:O4'	2.03	0.57
1:0:76:C:H5'	1:0:76:C:C6	2.31	0.57
1:0:195:A:N1	1:0:212:U:H4'	2.19	0.57
1:0:569:C:N4	1:0:570:G:C6	2.73	0.57
1:0:653:G:N2	1:0:657:A:H61	2.02	0.57
1:0:929:A:N7	1:0:930:A:C2	2.72	0.57
1:0:1151:U:H5''	1:0:1153:A:OP1	2.05	0.57
1:0:1440:G:O6	1:0:1441:A:N6	2.37	0.57
1:0:2372:A:H62	1:0:2401:A:N6	2.02	0.57
1:0:2689:C:N4	1:0:2690:A:N6	2.53	0.57
1:0:29:U:H2'	1:0:30:G:H8	1.70	0.57
1:0:343:A:H2'	1:0:345:U:OP2	2.04	0.57
1:0:543:G:OP2	1:0:543:G:H8	1.88	0.57
1:0:544:U:O2'	1:0:545:C:H5'	2.04	0.57
1:0:614:G:O2'	1:0:615:C:H5'	2.05	0.57
1:0:741:G:C6	1:0:743:A:C8	2.93	0.57
1:0:1230:C:C6	1:0:1246:G:N2	2.73	0.57
1:0:1598:C:H2'	1:0:1599:G:O4'	2.04	0.57
1:0:1766:U:H2'	1:0:1767:G:H5'	1.87	0.57
1:0:1898:U:C3'	1:0:1899:A:H8	2.17	0.57
1:0:1975:G:C8	1:0:1980:A:N6	2.73	0.57
1:0:2564:U:O2	1:0:2564:U:H3'	2.05	0.57
1:0:208:C:O2'	1:0:209:G:H5'	2.05	0.57
1:0:404:A:H1'	1:0:424:G:O2'	2.04	0.57
1:0:1282:A:H2'	1:0:1283:C:C6	2.38	0.57
1:0:1625:A:N7	1:0:1632:A:N3	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2383:C:H2'	1:0:2384:G:O4'	2.04	0.57
1:0:2396:C:H5'	1:0:2396:C:C6	2.38	0.57
1:0:2628:C:H2'	1:0:2629:U:H6	1.69	0.57
1:0:2673:G:C2	1:0:2674:C:C6	2.93	0.57
1:0:9:U:O2	1:0:9:U:H2'	2.05	0.57
1:0:192:G:O2'	1:0:193:A:C5'	2.53	0.57
1:0:310:A:O2'	1:0:311:A:H5'	2.04	0.57
1:0:652:C:H5'	1:0:652:C:H6	1.70	0.57
1:0:799:C:O2'	1:0:800:U:H5'	2.04	0.57
1:0:972:C:H4'	1:0:973:U:OP2	2.04	0.57
1:0:1033:G:HO2'	1:0:1034:U:P	2.27	0.57
1:0:1301:U:C4'	1:0:1302:C:OP2	2.51	0.57
1:0:1493:A:H2'	1:0:1494:G:C8	2.40	0.57
1:0:1621:C:H2'	1:0:1622:G:O4'	2.05	0.57
1:0:2592:U:H4'	1:0:2593:A:OP1	2.02	0.57
1:0:2636:A:C2	1:0:2644:A:C4	2.92	0.57
1:0:2692:A:H5'	1:0:2693:U:C5'	2.31	0.57
1:0:51:A:H2'	1:0:52:A:O4'	2.04	0.57
1:0:198:A:N7	1:0:243:G:C6	2.72	0.57
1:0:317:U:H2'	1:0:318:G:H5''	1.85	0.57
1:0:616:U:C4	1:0:617:U:H5	2.23	0.57
1:0:1141:U:C2	1:0:2008:C:H5''	2.40	0.57
1:0:1385:C:H2'	1:0:1386:A:O4'	2.04	0.57
1:0:1435:G:C2'	1:0:1436:G:H5'	2.34	0.57
1:0:1436:G:N1	1:0:1592:U:O2	2.38	0.57
1:0:1746:A:H2'	1:0:1746:A:N3	2.19	0.57
1:0:2007:G:H2'	1:0:2008:C:C6	2.40	0.57
1:0:2484:G:H1'	3:0:2881:G80:H182	1.87	0.57
1:0:2688:G:H5''	1:0:2689:C:OP2	2.04	0.57
1:0:2758:A:O2'	1:0:2759:U:P	2.63	0.57
1:0:23:G:C2	1:0:24:G:C8	2.93	0.57
1:0:155:G:O2'	1:0:156:G:H5'	2.03	0.57
1:0:667:U:H2'	1:0:668:A:H5''	1.86	0.57
1:0:739:G:O2'	1:0:740:A:O5'	2.23	0.57
1:0:833:A:O2'	1:0:834:A:H5'	2.04	0.57
1:0:859:U:H1'	1:0:860:U:C2	2.40	0.57
1:0:873:U:H1'	1:0:2246:A:C5'	2.32	0.57
1:0:1687:C:O2'	1:0:1977:C:H4'	2.05	0.57
1:0:1710:U:O4	1:0:1960:A:C8	2.58	0.57
1:0:1737:G:H2'	1:0:1738:U:C6	2.40	0.57
1:0:1979:C:H2'	1:0:1980:A:O4'	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2728:A:C8	1:0:2729:A:N7	2.72	0.57
1:0:118:U:O2'	1:0:119:G:OP2	2.23	0.56
1:0:640:C:C4'	1:0:660:G:H21	2.18	0.56
1:0:846:A:H62	1:0:847:C:N4	2.01	0.56
1:0:852:U:H2'	1:0:853:C:C6	2.39	0.56
1:0:1034:U:H2'	1:0:1035:G:C5'	2.35	0.56
1:0:1355:A:H4'	1:0:1356:G:OP1	2.05	0.56
1:0:1514:C:H5'	1:0:1593:C:H5''	1.87	0.56
1:0:1609:G:H2'	1:0:1610:A:H8	1.69	0.56
1:0:1685:A:O2'	1:0:1686:A:P	2.63	0.56
1:0:1689:U:H2'	1:0:1690:U:H5'	1.87	0.56
1:0:1716:G:C4	1:0:1754:G:N2	2.73	0.56
1:0:1815:G:O2'	1:0:1816:G:H5'	2.05	0.56
1:0:1872:A:H1'	1:0:2070:G:H5'	1.87	0.56
1:0:2059:U:O2'	1:0:2060:A:H5''	2.04	0.56
1:0:2355:A:H2'	1:0:2356:A:O4'	2.05	0.56
1:0:2396:C:C2'	1:0:2397:A:H5'	2.35	0.56
1:0:153:A:H2'	1:0:154:U:H6	1.70	0.56
1:0:471:A:N7	1:0:472:C:C4	2.73	0.56
1:0:632:A:C2	1:0:633:G:C8	2.94	0.56
1:0:1029:C:H2'	1:0:1030:U:O4'	2.04	0.56
1:0:1150:C:C4'	1:0:1154:A:C2	2.85	0.56
1:0:1278:A:O2'	1:0:1279:G:P	2.63	0.56
1:0:1463:A:C1'	1:0:1543:G:H22	2.19	0.56
1:0:1726:C:C2	1:0:1741:G:N2	2.73	0.56
1:0:1761:G:H2'	1:0:1762:C:C6	2.39	0.56
1:0:1918:G:H1'	1:0:1947:G:C2	2.40	0.56
1:0:2043:A:C1'	1:0:2481:G:H1'	2.35	0.56
1:0:2177:U:H2'	1:0:2178:U:C6	2.41	0.56
1:0:2450:A:C2'	1:0:2451:G:H5'	2.35	0.56
1:0:2529:G:C2	1:0:2530:C:C2	2.93	0.56
1:0:168:A:H2'	1:0:169:C:H6	1.70	0.56
1:0:346:C:N3	1:0:347:C:C5	2.73	0.56
1:0:537:C:O2'	1:0:538:A:C4	2.58	0.56
1:0:551:A:N6	1:0:562:G:C6	2.72	0.56
1:0:691:C:H2'	1:0:692:C:C6	2.40	0.56
1:0:789:G:O2'	1:0:790:A:OP2	2.21	0.56
1:0:991:A:C6	1:0:992:A:N1	2.74	0.56
1:0:1038:U:N3	1:0:1137:A:C5	2.73	0.56
1:0:1058:G:H2'	1:0:1121:G:N1	2.19	0.56
1:0:1090:C:O2'	1:0:1091:C:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1262:U:H5'	1:0:1262:U:H6	1.70	0.56
1:0:1323:G:H1'	1:0:1627:C:H5'	1.86	0.56
1:0:1347:C:N3	1:0:1348:C:C5	2.72	0.56
1:0:1438:G:O2'	1:0:1439:G:H5'	2.05	0.56
1:0:1641:C:H2'	1:0:1642:G:H5'	1.88	0.56
1:0:1723:U:O2'	1:0:1724:C:OP1	2.23	0.56
1:0:1791:C:C4	1:0:1810:U:O2	2.58	0.56
1:0:1895:A:N7	1:0:1900:U:O4	2.38	0.56
1:0:1925:C:H3'	1:0:1926:U:C5	2.40	0.56
1:0:1934:U:H1'	1:0:1937:G:N7	2.20	0.56
1:0:1950:C:C4	1:0:1951:G:C5	2.94	0.56
1:0:2268:G:H5''	1:0:2363:G:O2'	2.05	0.56
1:0:2553:G:C2'	1:0:2554:C:C5'	2.76	0.56
1:0:2629:U:O2'	1:0:2630:C:H5'	2.05	0.56
1:0:2700:U:O2'	1:0:2701:A:H5'	2.05	0.56
1:0:2705:A:O2'	1:0:2706:U:P	2.63	0.56
1:0:2791:C:C2	1:0:2806:G:N2	2.73	0.56
1:0:2859:U:H2'	1:0:2859:U:O2	2.06	0.56
1:0:158:A:H2	1:0:447:U:O2'	1.87	0.56
1:0:403:A:H1'	1:0:424:G:H22	1.71	0.56
1:0:441:A:H2'	1:0:442:A:C5'	2.35	0.56
1:0:736:G:O2'	1:0:737:C:H5'	2.06	0.56
1:0:803:C:H5'	1:0:804:C:OP2	2.05	0.56
1:0:1072:U:O5'	1:0:1072:U:H6	1.87	0.56
1:0:1086:C:C2'	1:0:1087:C:H5''	2.34	0.56
1:0:1171:A:H2'	1:0:1172:U:C6	2.41	0.56
1:0:1309:G:H2'	1:0:1310:C:O5'	2.06	0.56
1:0:1840:A:H2'	1:0:1841:G:O4'	2.05	0.56
1:0:2091:C:H3'	1:0:2092:U:C6	2.40	0.56
1:0:2211:U:O2'	1:0:2212:U:H5'	2.06	0.56
1:0:2348:A:O2'	1:0:2349:G:H5'	2.05	0.56
1:0:2589:C:H4'	1:0:2590:U:O5'	2.04	0.56
1:0:2638:G:H1'	1:0:2641:A:N6	2.20	0.56
1:0:2722:C:O2'	1:0:2723:C:H5'	2.06	0.56
1:0:14:A:N1	1:0:536:A:C2	2.74	0.56
1:0:391:C:H2'	1:0:392:G:H5'	1.86	0.56
1:0:698:A:N7	1:0:786:U:C4	2.73	0.56
1:0:787:A:C4	1:0:788:G:C8	2.94	0.56
1:0:843:G:H1'	1:0:2427:A:C2	2.40	0.56
1:0:885:A:H2'	1:0:886:A:C8	2.40	0.56
1:0:987:G:N2	1:0:988:G:C4	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1151:U:H5'	1:0:1153:A:O4'	2.06	0.56
1:0:1300:A:C2	1:0:1301:U:C2	2.94	0.56
1:0:1394:G:H2'	1:0:1395:A:C8	2.38	0.56
1:0:1756:C:C2'	1:0:1757:C:O5'	2.53	0.56
1:0:1833:U:H2'	1:0:1834:G:H8	1.71	0.56
1:0:2014:A:H62	1:0:2477:C:H1'	1.69	0.56
1:0:237:G:H1'	1:0:632:A:C8	2.40	0.56
1:0:492:G:H1	1:0:519:C:H42	1.53	0.56
1:0:695:G:O2'	1:0:696:U:H5'	2.06	0.56
1:0:1142:G:O2'	1:0:1143:A:C5'	2.54	0.56
1:0:1288:A:N6	1:0:1309:G:C5'	2.68	0.56
1:0:1452:U:O2'	1:0:1453:A:H5'	2.04	0.56
1:0:1733:U:OP1	1:0:1734:C:H5	1.89	0.56
1:0:1896:A:C2'	1:0:1899:A:H61	2.17	0.56
1:0:2014:A:N6	1:0:2477:C:H1'	2.21	0.56
1:0:309:G:C2	1:0:350:U:C5	2.94	0.56
1:0:465:C:O2'	1:0:483:A:N6	2.37	0.56
1:0:644:A:H2'	1:0:645:G:H5'	1.86	0.56
1:0:759:C:OP1	1:0:761:G:O2'	2.23	0.56
1:0:972:C:C5	1:0:2014:A:C2	2.93	0.56
1:0:1209:G:N3	1:0:1239:A:C2	2.74	0.56
1:0:1644:G:O2'	1:0:1645:U:H5'	2.05	0.56
1:0:1950:C:H2'	1:0:1951:G:O5'	2.06	0.56
1:0:2199:C:H2'	1:0:2200:G:C8	2.41	0.56
1:0:2426:G:C2'	1:0:2427:A:OP2	2.53	0.56
1:0:2515:G:H2'	1:0:2516:U:O4'	2.05	0.56
1:0:2569:A:O2'	1:0:2570:C:H5'	2.05	0.56
1:0:2670:C:H6	1:0:2670:C:H5'	1.70	0.56
1:0:2829:A:H2'	1:0:2830:U:O4'	2.05	0.56
1:0:120:G:O2'	1:0:121:G:H5'	2.05	0.56
1:0:498:C:N4	1:0:499:G:C6	2.74	0.56
1:0:783:G:C6	1:0:784:U:N3	2.74	0.56
1:0:957:G:H22	1:0:983:G:H1'	1.71	0.56
1:0:2035:G:O2'	1:0:2036:G:H5'	2.06	0.56
1:0:2572:U:H2'	1:0:2573:C:H6	1.70	0.56
1:0:2698:G:H2'	1:0:2699:G:H8	1.69	0.56
1:0:2729:A:C6	1:0:2730:A:N6	2.68	0.56
1:0:2822:U:H5	1:0:2823:G:C6	2.23	0.56
1:0:7:G:H2'	1:0:8:A:O4'	2.06	0.56
1:0:840:U:C4	1:0:2409:A:C6	2.93	0.56
1:0:873:U:C2	1:0:2246:A:H5''	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:875:G:C2	1:0:876:A:H1'	2.41	0.56
1:0:1466:C:H2'	1:0:1467:U:C5'	2.36	0.56
1:0:2476:A:O2'	1:0:2477:C:H5'	2.06	0.56
1:0:2725:C:H2'	1:0:2726:U:H6	1.63	0.56
1:0:13:A:H61	1:0:535:U:H3'	1.70	0.56
1:0:58:C:N3	1:0:73:A:N1	2.54	0.56
1:0:457:C:H2'	1:0:458:G:H5'	1.87	0.56
1:0:545:C:O2'	1:0:546:A:C5'	2.54	0.56
1:0:571:U:O4	1:0:2016:A:N1	2.38	0.56
1:0:732:G:H2'	1:0:733:G:C8	2.41	0.56
1:0:808:C:C2'	1:0:809:C:H5'	2.36	0.56
1:0:1302:C:H2'	1:0:1303:U:H6	1.71	0.56
1:0:1327:C:O5'	1:0:1327:C:C6	2.59	0.56
1:0:2639:A:H2'	1:0:2640:G:O4'	2.06	0.56
1:0:2674:C:H2'	1:0:2675:U:C6	2.40	0.56
1:0:2810:A:N6	1:0:2854:G:N9	2.54	0.56
1:0:2817:A:C2	1:0:2851:G:C2	2.94	0.56
1:0:185:C:H2'	1:0:186:C:C6	2.33	0.55
1:0:212:U:H3	1:0:443:A:H2	1.54	0.55
1:0:540:G:O6	1:0:2006:G:OP1	2.24	0.55
1:0:547:U:H2'	1:0:548:G:C8	2.39	0.55
1:0:597:U:O4	1:0:683:A:O2'	2.23	0.55
1:0:600:G:H3'	1:0:601:A:H5''	1.87	0.55
1:0:805:G:C5	1:0:2419:C:C6	2.94	0.55
1:0:1080:A:C6	1:0:1084:A:N6	2.74	0.55
1:0:1139:A:C5	1:0:1140:A:C2	2.94	0.55
1:0:1256:C:H2'	1:0:1257:U:O4'	2.06	0.55
1:0:1287:A:C2	1:0:1315:A:H2	2.24	0.55
1:0:1645:U:H2'	1:0:1646:G:C8	2.41	0.55
1:0:1715:A:H2'	1:0:1716:G:H3'	1.86	0.55
1:0:2007:G:C2	1:0:2023:C:O2	2.59	0.55
1:0:2312:A:N3	1:0:2312:A:C2'	2.67	0.55
1:0:187:U:H2'	1:0:188:G:C8	2.41	0.55
1:0:223:C:H1'	1:0:397:U:O2'	2.06	0.55
1:0:603:C:H2'	1:0:604:U:H6	1.71	0.55
1:0:879:A:N1	1:0:926:C:C4	2.73	0.55
1:0:1073:G:H2'	1:0:1074:G:O4'	2.06	0.55
1:0:1133:G:O2'	1:0:1134:C:H5'	2.06	0.55
1:0:1268:U:H5'	1:0:1269:G:H5''	1.87	0.55
1:0:1514:C:C5'	1:0:1593:C:H5'	2.34	0.55
1:0:2555:G:H5''	1:0:2556:A:OP1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2782:G:N3	1:0:2782:G:H2'	2.21	0.55
1:0:2837:G:C2	1:0:2838:U:C2	2.94	0.55
1:0:58:C:N3	1:0:73:A:C6	2.74	0.55
1:0:68:C:N1	1:0:72:A:C2	2.75	0.55
1:0:118:U:C2'	1:0:119:G:OP2	2.54	0.55
1:0:1261:G:O2'	1:0:1262:U:OP1	2.23	0.55
1:0:1694:A:O2'	1:0:1695:U:H5'	2.06	0.55
1:0:1774:A:H2	1:0:2566:A:C8	2.25	0.55
1:0:2091:C:H2'	1:0:2092:U:O4'	2.05	0.55
1:0:298:C:O2'	1:0:299:C:H5'	2.06	0.55
1:0:729:A:H2'	1:0:730:C:H6	1.71	0.55
1:0:792:U:O2'	1:0:793:G:H5'	2.06	0.55
1:0:1150:C:H4'	1:0:1154:A:N1	2.21	0.55
1:0:1279:G:N2	1:0:1995:G:C4	2.74	0.55
1:0:1302:C:O2'	1:0:1303:U:H5'	2.06	0.55
1:0:1365:U:O2'	1:0:1366:A:H5'	2.06	0.55
1:0:1750:A:C8	1:0:2675:U:H1'	2.41	0.55
1:0:1938:U:C5	1:0:2536:G:N2	2.74	0.55
1:0:2081:U:C2'	1:0:2082:C:H5''	2.34	0.55
1:0:2210:C:H2'	1:0:2211:U:O4'	2.07	0.55
1:0:2338:C:H2'	1:0:2339:A:H8	1.71	0.55
1:0:2678:C:O2'	1:0:2679:G:H5'	2.06	0.55
1:0:2720:A:C6	1:0:2744:A:C8	2.94	0.55
1:0:2769:C:H3'	1:0:2770:A:O4'	2.06	0.55
1:0:121:G:C2'	1:0:122:G:H5'	2.35	0.55
1:0:143:A:O2'	1:0:144:U:H5'	2.06	0.55
1:0:185:C:O2'	1:0:186:C:H5'	2.06	0.55
1:0:883:A:N3	1:0:883:A:H2'	2.21	0.55
1:0:1067:G:HO2'	1:0:1097:A:H2	1.54	0.55
1:0:1437:A:C5	1:0:1438:G:N7	2.74	0.55
1:0:1645:U:H2'	1:0:1646:G:O4'	2.07	0.55
1:0:1683:G:N2	1:0:1978:U:C4	2.74	0.55
1:0:1965:U:C5	1:0:1966:C:H5	2.24	0.55
1:0:69:G:C4'	1:0:70:A:OP1	2.55	0.55
1:0:240:U:H2'	1:0:241:C:O4'	2.06	0.55
1:0:700:C:H2'	1:0:701:U:N1	2.22	0.55
1:0:1175:A:C2	1:0:1176:U:C2	2.94	0.55
1:0:1440:G:H8	1:0:1440:G:OP2	1.90	0.55
1:0:1774:A:N1	1:0:2566:A:C4	2.75	0.55
1:0:1916:G:O2'	1:0:1957:C:H4'	2.05	0.55
1:0:1970:G:O2'	1:0:1971:C:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1974:U:H2'	1:0:1975:G:H5''	1.88	0.55
1:0:2041:A:H2'	1:0:2041:A:N3	2.20	0.55
1:0:2876:C:H2'	1:0:2877:A:O4'	2.05	0.55
1:0:65:C:H2'	1:0:66:U:C4'	2.36	0.55
1:0:127:C:H2'	1:0:128:C:C6	2.42	0.55
1:0:482:A:O2'	1:0:483:A:H5'	2.06	0.55
1:0:849:G:C8	1:0:850:C:C5	2.95	0.55
1:0:921:A:C6	1:0:924:C:C2	2.95	0.55
1:0:942:U:C2'	1:0:943:U:O5'	2.54	0.55
1:0:970:A:N7	1:0:971:A:C6	2.75	0.55
1:0:1077:U:H2'	1:0:1079:G:OP2	2.06	0.55
1:0:1213:U:N3	1:0:1260:A:H2	2.05	0.55
1:0:1685:A:N7	1:0:1691:G:C5	2.75	0.55
1:0:1686:A:O2'	1:0:2528:G:OP1	2.23	0.55
1:0:1706:A:C5	1:0:1714:A:N1	2.75	0.55
1:0:1793:A:H2'	1:0:1794:A:O4'	2.06	0.55
1:0:1948:C:C5	1:0:1949:A:N7	2.75	0.55
1:0:2768:C:O2'	1:0:2784:A:H2'	2.07	0.55
1:0:13:A:O2'	1:0:15:G:N7	2.38	0.55
1:0:810:U:H3'	1:0:810:U:C6	2.42	0.55
1:0:1092:U:H2'	1:0:1093:U:C6	2.41	0.55
1:0:1151:U:OP1	1:0:1153:A:P	2.65	0.55
1:0:1507:A:N3	1:0:1507:A:H2'	2.21	0.55
1:0:1581:C:C2'	1:0:1582:A:O5'	2.55	0.55
1:0:1682:A:H2'	1:0:1683:G:H5'	1.87	0.55
1:0:1922:U:O2'	1:0:2571:G:C1'	2.55	0.55
1:0:2327:U:O2'	1:0:2328:G:H5'	2.06	0.55
1:0:2862:G:O2'	1:0:2863:U:H5'	2.07	0.55
1:0:588:G:N2	1:0:1275:A:C4	2.75	0.55
1:0:592:G:C6	1:0:593:C:N4	2.75	0.55
1:0:638:A:OP2	1:0:638:A:H4'	2.05	0.55
1:0:1041:G:N2	1:0:1042:G:H1'	2.22	0.55
1:0:1574:A:O4'	1:0:1574:A:OP1	2.23	0.55
1:0:2769:C:O2'	1:0:2866:A:N1	2.31	0.55
1:0:83:A:H62	1:0:98:U:C1'	2.18	0.55
1:0:210:A:H61	1:0:442:A:H61	1.53	0.55
1:0:421:G:H2'	1:0:422:C:C6	2.41	0.55
1:0:656:U:OP1	1:0:657:A:N7	2.39	0.55
1:0:939:C:C5	1:0:941:U:H5	2.25	0.55
1:0:1008:G:C2	1:0:1170:U:O2	2.60	0.55
1:0:1778:U:O2	1:0:1778:U:H2'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1830:C:H4'	1:0:1831:G:C8	2.42	0.55
1:0:1858:C:O2'	1:0:1859:A:H5'	2.07	0.55
1:0:2232:G:H2'	1:0:2233:C:C6	2.42	0.55
1:0:2560:G:C1'	1:0:2561:G:N7	2.70	0.55
1:0:2574:G:N2	1:0:2576:G:H3'	2.22	0.55
1:0:2640:G:H2'	1:0:2641:A:O4'	2.06	0.55
1:0:2770:A:H8	1:0:2770:A:O5'	1.88	0.55
1:0:2781:G:C2'	1:0:2782:G:C1'	2.80	0.55
1:0:2838:U:O2'	1:0:2839:G:H5'	2.06	0.55
1:0:30:G:C2'	1:0:31:C:H5'	2.37	0.54
1:0:840:U:H4'	1:0:841:G:C2	2.41	0.54
1:0:1004:A:H2'	1:0:1005:U:H5'	1.88	0.54
1:0:1904:G:O2'	1:0:1905:G:H5'	2.07	0.54
1:0:2225:G:N3	1:0:2226:A:C8	2.75	0.54
1:0:2450:A:H2'	1:0:2451:G:H5'	1.88	0.54
1:0:2542:U:O2	1:0:2545:A:C5	2.60	0.54
1:0:2542:U:H2'	1:0:2544:A:OP2	2.07	0.54
1:0:2549:G:H2'	1:0:2550:C:O4'	2.07	0.54
1:0:530:G:H2'	1:0:531:G:C8	2.38	0.54
1:0:545:C:H2'	1:0:546:A:H8	1.71	0.54
1:0:646:C:H2'	1:0:647:G:O4'	2.08	0.54
1:0:667:U:H2'	1:0:668:A:C5'	2.36	0.54
1:0:881:U:C4	1:0:882:C:N4	2.75	0.54
1:0:1177:U:O4	1:0:1196:G:C6	2.60	0.54
1:0:1628:C:C4	1:0:1629:G:N7	2.76	0.54
1:0:1685:A:H61	1:0:1693:A:N6	1.99	0.54
1:0:1715:A:O2'	1:0:1716:G:C3'	2.47	0.54
1:0:2026:C:OP1	1:0:2757:G:O2'	2.25	0.54
1:0:2040:A:H2'	1:0:2041:A:C1'	2.37	0.54
1:0:2266:A:N6	1:0:2323:U:C1'	2.67	0.54
1:0:2266:A:N7	1:0:2323:U:O2	2.40	0.54
1:0:2334:C:H6	1:0:2334:C:O5'	1.89	0.54
1:0:2389:G:H2'	1:0:2390:A:C8	2.42	0.54
1:0:2736:U:O2'	1:0:2737:A:H5'	2.07	0.54
1:0:481:A:H3'	1:0:482:A:C8	2.42	0.54
1:0:692:C:C2	1:0:812:G:N2	2.76	0.54
1:0:816:U:H2'	1:0:817:A:O4'	2.06	0.54
1:0:816:U:C2'	1:0:817:A:H5'	2.37	0.54
1:0:1210:C:C1'	1:0:1239:A:C4	2.90	0.54
1:0:1366:A:C6	1:0:1367:A:C6	2.95	0.54
1:0:1594:U:O2	1:0:1595:A:N7	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1744:G:O6	1:0:1747:G:C6	2.60	0.54
1:0:1777:A:O2'	1:0:1778:U:OP1	2.26	0.54
1:0:2418:A:H4'	1:0:2419:C:O5'	2.07	0.54
1:0:2675:U:H2'	1:0:2676:G:H8	1.70	0.54
1:0:320:A:N3	1:0:340:G:O2'	2.38	0.54
1:0:529:U:H2'	1:0:530:G:C8	2.42	0.54
1:0:890:U:O5'	1:0:890:U:H6	1.90	0.54
1:0:1004:A:C5	1:0:1005:U:H5	2.25	0.54
1:0:1036:G:OP1	1:0:1036:G:C8	2.60	0.54
1:0:1189:G:O2'	1:0:1190:C:H5'	2.08	0.54
1:0:1333:G:O6	1:0:1343:C:OP2	2.24	0.54
1:0:1368:G:C4	1:0:1369:G:C8	2.94	0.54
1:0:1407:G:C2	1:0:1408:A:N1	2.75	0.54
1:0:1683:G:O6	1:0:1684:G:N1	2.40	0.54
1:0:1714:A:C5'	1:0:1715:A:O5'	2.54	0.54
1:0:1750:A:C2	1:0:1751:A:C8	2.94	0.54
1:0:2181:A:N3	1:0:2181:A:H2'	2.21	0.54
1:0:2496:C:O2'	1:0:2497:A:O5'	2.22	0.54
1:0:2653:A:H2'	1:0:2654:A:C8	2.42	0.54
1:0:2810:A:N6	1:0:2854:G:OP2	2.41	0.54
1:0:138:G:O2'	1:0:139:A:H5'	2.08	0.54
1:0:246:C:N4	1:0:247:A:H62	2.04	0.54
1:0:427:C:N4	1:0:2389:G:O6	2.41	0.54
1:0:820:U:H2'	1:0:821:A:C8	2.43	0.54
1:0:871:U:H2'	1:0:871:U:O2	2.05	0.54
1:0:1090:C:H2'	1:0:1091:C:C6	2.43	0.54
1:0:1170:U:O2'	1:0:1171:A:H5'	2.08	0.54
1:0:1266:G:O2'	1:0:1267:A:OP1	2.23	0.54
1:0:1299:A:C6	1:0:1302:C:C2	2.96	0.54
1:0:1299:A:C6	1:0:1302:C:C4	2.96	0.54
1:0:1404:C:N3	1:0:1407:G:C5	2.76	0.54
1:0:1469:U:H5''	1:0:1470:G:N7	2.23	0.54
1:0:1790:G:O4'	1:0:1811:A:N6	2.31	0.54
1:0:2226:A:H2'	1:0:2227:C:O4'	2.08	0.54
1:0:2424:G:N2	1:0:2425:G:C4	2.75	0.54
1:0:2543:A:N1	1:0:2626:U:H4'	2.22	0.54
1:0:2579:A:H2'	1:0:2580:C:H6	1.69	0.54
1:0:2610:G:N2	1:0:2611:A:H1'	2.23	0.54
1:0:2806:G:H1'	1:0:2858:A:H2'	1.89	0.54
1:0:225:G:N7	1:0:227:G:N3	2.56	0.54
1:0:1249:G:O2'	1:0:1250:A:P	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1329:U:H5'	1:0:1405:A:H1'	1.90	0.54
1:0:1588:A:H2'	1:0:1589:G:C8	2.41	0.54
1:0:1716:G:C2	1:0:1754:G:C2	2.96	0.54
1:0:1964:A:OP1	1:0:1965:U:OP2	2.26	0.54
1:0:2014:A:N6	1:0:2477:C:C1'	2.71	0.54
1:0:2540:A:N6	1:0:2541:U:C4	2.76	0.54
1:0:2689:C:O2'	1:0:2690:A:H5'	2.08	0.54
1:0:2736:U:C2'	1:0:2737:A:OP2	2.55	0.54
1:0:173:A:C5	1:0:818:G:N2	2.76	0.54
1:0:190:A:O2'	1:0:191:G:O4'	2.21	0.54
1:0:225:G:N3	1:0:2410:U:H4'	2.23	0.54
1:0:772:G:C6	1:0:773:G:N7	2.76	0.54
1:0:1032:A:C2	1:0:1034:U:C2	2.96	0.54
1:0:1310:C:O2	1:0:1661:C:O2	2.25	0.54
1:0:1337:G:C1'	1:0:1632:A:N6	2.68	0.54
1:0:1452:U:H5''	1:0:1533:G:H5'	1.90	0.54
1:0:2562:G:C2'	1:0:2563:U:H5'	2.37	0.54
1:0:2825:A:C2	1:0:2826:C:C2	2.96	0.54
1:0:466:A:H4'	1:0:467:U:O4'	2.08	0.54
1:0:1066:G:N7	1:0:1067:G:H1'	2.23	0.54
1:0:1174:G:C2	1:0:1175:A:C5	2.95	0.54
1:0:1631:C:N4	1:0:1633:C:O2	2.37	0.54
1:0:1947:G:C4'	1:0:1948:C:OP2	2.54	0.54
1:0:1990:U:H2'	1:0:1991:C:C6	2.42	0.54
1:0:2298:U:H4'	1:0:2299:A:C8	2.43	0.54
1:0:437:G:H2'	1:0:438:G:C8	2.42	0.54
1:0:502:A:H2'	1:0:503:G:O4'	2.07	0.54
1:0:788:G:O2'	1:0:807:A:C8	2.60	0.54
1:0:1161:U:H2'	1:0:1162:A:H8	1.73	0.54
1:0:1226:A:O4'	1:0:1250:A:H2	1.91	0.54
1:0:1250:A:O2'	1:0:1251:G:O4'	2.26	0.54
1:0:1279:G:O2'	1:0:1995:G:N1	2.30	0.54
1:0:1440:G:H3'	1:0:1441:A:H5'	1.90	0.54
1:0:1482:U:OP1	1:0:1482:U:H4'	2.08	0.54
1:0:1578:U:O2'	1:0:1579:G:H5'	2.08	0.54
1:0:1643:A:H1'	1:0:1657:A:C2	2.43	0.54
1:0:1804:U:H2'	1:0:1805:G:H8	1.72	0.54
1:0:1935:A:C6	1:0:1936:A:N1	2.76	0.54
1:0:2063:A:H2'	1:0:2064:U:O4'	2.08	0.54
1:0:2066:G:C6	1:0:2216:G:N2	2.76	0.54
1:0:2376:G:N1	1:0:2399:C:C2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2526:U:H2'	1:0:2527:G:C8	2.43	0.54
1:0:2628:C:H2'	1:0:2629:U:C6	2.43	0.54
1:0:2825:A:N3	1:0:2826:C:C5	2.76	0.54
1:0:176:A:C2	1:0:2413:A:C2	2.96	0.54
1:0:299:C:H2'	1:0:300:C:C6	2.43	0.54
1:0:498:C:C4	1:0:499:G:N7	2.75	0.54
1:0:700:C:O2	1:0:800:U:O3'	2.25	0.54
1:0:788:G:H21	1:0:800:U:H3'	1.69	0.54
1:0:1177:U:O4	1:0:1196:G:O6	2.25	0.54
1:0:1394:G:O2'	1:0:1395:A:H5'	2.08	0.54
1:0:1503:G:H2'	1:0:1504:G:C8	2.43	0.54
1:0:1518:C:H2'	1:0:1519:G:H8	1.73	0.54
1:0:1865:C:H2'	1:0:1866:G:C5'	2.38	0.54
1:0:2051:U:H3	1:0:2409:A:H2	1.55	0.54
1:0:2074:U:H3'	1:0:2075:U:H5''	1.90	0.54
1:0:2820:C:H2'	1:0:2821:G:H8	1.73	0.54
1:0:210:A:H61	1:0:442:A:N6	2.05	0.53
1:0:212:U:C2	1:0:443:A:C2	2.96	0.53
1:0:584:A:OP2	1:0:2038:C:H5	1.91	0.53
1:0:761:G:N7	1:0:763:A:C8	2.75	0.53
1:0:944:A:C2	1:0:945:G:C1'	2.91	0.53
1:0:984:A:H1'	1:0:1202:U:N1	2.22	0.53
1:0:1572:C:C3'	1:0:1573:G:H5''	2.38	0.53
1:0:1710:U:H4'	1:0:1711:C:OP2	2.06	0.53
1:0:1770:U:C2	1:0:1774:A:N7	2.77	0.53
1:0:1778:U:H4'	1:0:2568:A:H4'	1.91	0.53
1:0:2782:G:C3'	1:0:2783:U:H5''	2.36	0.53
1:0:170:U:O4	1:0:179:U:N3	2.39	0.53
1:0:462:G:H8	1:0:462:G:O5'	1.90	0.53
1:0:529:U:H2'	1:0:530:G:H8	1.73	0.53
1:0:590:C:H2'	1:0:591:G:C8	2.33	0.53
1:0:676:G:N2	1:0:950:G:O3'	2.41	0.53
1:0:844:G:H2'	1:0:844:G:N3	2.22	0.53
1:0:861:G:H2'	1:0:862:A:H5'	1.90	0.53
1:0:1013:G:H22	1:0:1165:G:H1'	1.71	0.53
1:0:1077:U:H6	1:0:1077:U:O5'	1.91	0.53
1:0:1141:U:O2'	1:0:1142:G:OP1	2.26	0.53
1:0:1404:C:C2	1:0:1407:G:O6	2.61	0.53
1:0:1922:U:O2'	1:0:2571:G:H1'	2.07	0.53
1:0:2266:A:H62	1:0:2323:U:C1'	2.19	0.53
1:0:2482:A:C5'	1:0:2483:U:P	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:11:G:H8	1:0:11:G:O5'	1.92	0.53
1:0:127:C:H2'	1:0:128:C:H6	1.73	0.53
1:0:169:C:C2'	1:0:170:U:H5'	2.38	0.53
1:0:238:G:O2'	1:0:239:A:H5'	2.09	0.53
1:0:499:G:H1'	1:0:502:A:H62	1.74	0.53
1:0:742:G:N2	1:0:1766:U:N1	2.56	0.53
1:0:758:G:H2'	1:0:759:C:H5'	1.89	0.53
1:0:843:G:C2	1:0:2427:A:N6	2.76	0.53
1:0:987:G:C2	1:0:988:G:C5	2.96	0.53
1:0:1726:C:O2'	1:0:2834:A:N3	2.38	0.53
1:0:1774:A:C2	1:0:2566:A:C5	2.96	0.53
1:0:1938:U:H5	1:0:2536:G:N2	2.07	0.53
1:0:2107:G:H2'	1:0:2108:G:H8	1.73	0.53
1:0:2555:G:N3	1:0:2555:G:C2'	2.70	0.53
1:0:2705:A:H5''	1:0:2705:A:C8	2.40	0.53
1:0:2753:C:N4	1:0:2754:C:H41	2.07	0.53
1:0:2811:G:C4	1:0:2812:A:N7	2.76	0.53
1:0:322:A:H3'	1:0:323:G:C8	2.44	0.53
1:0:340:G:H4'	1:0:341:A:OP2	2.09	0.53
1:0:351:A:N6	1:0:352:G:C2	2.77	0.53
1:0:493:A:H5''	1:0:494:A:OP1	2.09	0.53
1:0:651:C:C3'	1:0:652:C:H5''	2.38	0.53
1:0:824:U:C4'	1:0:1264:C:O2	2.55	0.53
1:0:888:G:O2'	1:0:889:C:H5'	2.08	0.53
1:0:1198:C:OP1	1:0:1199:U:O2'	2.24	0.53
1:0:1288:A:N6	1:0:1308:C:H2'	2.24	0.53
1:0:1334:A:N6	1:0:1347:C:O4'	2.40	0.53
1:0:1514:C:H4'	1:0:1592:U:O2'	2.08	0.53
1:0:1581:C:N4	1:0:1583:A:N3	2.55	0.53
1:0:1699:A:C2	1:0:1700:C:C2	2.97	0.53
1:0:1724:C:C4	1:0:1747:G:C6	2.95	0.53
1:0:2133:G:H2'	1:0:2134:U:O4'	2.08	0.53
1:0:2235:G:N2	1:0:2254:C:C4	2.77	0.53
1:0:2404:A:H4'	1:0:2405:A:O5'	2.07	0.53
1:0:2837:G:C6	1:0:2838:U:C4	2.96	0.53
1:0:24:G:O2'	1:0:25:U:H5'	2.08	0.53
1:0:35:G:O4'	1:0:466:A:N3	2.41	0.53
1:0:191:G:O2'	1:0:192:G:H5'	2.09	0.53
1:0:388:G:H2'	1:0:389:G:H8	1.74	0.53
1:0:1185:C:O2	1:0:1187:A:N7	2.41	0.53
1:0:1766:U:O2'	1:0:1767:G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1978:U:N3	1:0:1979:C:N4	2.56	0.53
1:0:2040:A:C8	1:0:2041:A:C8	2.96	0.53
1:0:2048:C:H1'	1:0:2428:U:N3	2.23	0.53
1:0:2299:A:H2'	1:0:2299:A:N3	2.22	0.53
1:0:2427:A:OP2	1:0:2478:C:OP1	2.27	0.53
1:0:2625:U:O4	1:0:2712:G:C6	2.62	0.53
1:0:2707:G:N2	1:0:2708:U:C2	2.77	0.53
1:0:200:A:N7	1:0:435:A:H1'	2.24	0.53
1:0:434:C:C2'	1:0:435:A:OP2	2.56	0.53
1:0:669:G:H2'	1:0:670:U:O4'	2.08	0.53
1:0:708:G:C6	1:0:781:G:C6	2.97	0.53
1:0:987:G:N3	1:0:988:G:C8	2.77	0.53
1:0:1438:G:C8	1:0:1439:G:C8	2.97	0.53
1:0:1635:G:C2	1:0:1636:G:C8	2.96	0.53
1:0:2636:A:H2'	1:0:2637:C:H5'	1.89	0.53
1:0:2811:G:C6	1:0:2858:A:C6	2.97	0.53
1:0:2817:A:N1	1:0:2851:G:C6	2.77	0.53
1:0:2824:C:O2'	1:0:2825:A:P	2.66	0.53
1:0:171:G:C2	1:0:179:U:C2	2.97	0.53
1:0:402:A:N3	1:0:402:A:H2'	2.24	0.53
1:0:404:A:O5'	1:0:404:A:H8	1.91	0.53
1:0:481:A:C6	1:0:482:A:C6	2.97	0.53
1:0:583:C:O2'	1:0:584:A:OP2	2.25	0.53
1:0:624:A:OP1	1:0:625:A:OP2	2.26	0.53
1:0:697:G:O6	1:0:807:A:C6	2.62	0.53
1:0:706:A:H2'	1:0:707:U:O4'	2.09	0.53
1:0:882:C:C2	1:0:883:A:C8	2.96	0.53
1:0:1073:G:H3'	1:0:1074:G:H5''	1.90	0.53
1:0:1369:G:N2	1:0:1370:U:H1'	2.24	0.53
1:0:1456:C:C4	1:0:1566:G:N1	2.77	0.53
1:0:1772:C:O2'	1:0:1773:C:C5'	2.56	0.53
1:0:2047:C:O2	1:0:2429:A:N6	2.42	0.53
1:0:2061:C:N4	1:0:2220:A:H61	2.02	0.53
1:0:2276:C:H2'	1:0:2277:A:H5'	1.91	0.53
1:0:2623:A:H2'	1:0:2624:G:O4'	2.09	0.53
1:0:2623:A:N6	1:0:2624:G:N1	2.56	0.53
1:0:26:G:C5	1:0:27:G:N1	2.77	0.53
1:0:548:G:N2	1:0:549:G:C4	2.77	0.53
1:0:600:G:C3'	1:0:601:A:C5'	2.86	0.53
1:0:614:G:O4'	1:0:669:G:N2	2.42	0.53
1:0:872:G:H22	1:0:929:A:P	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:991:A:OP1	1:0:993:C:N4	2.41	0.53
1:0:1016:C:H2'	1:0:1017:C:C6	2.44	0.53
1:0:1172:U:C2	1:0:1173:G:C8	2.97	0.53
1:0:1199:U:C5	1:0:1201:G:N7	2.74	0.53
1:0:1385:C:H2'	1:0:1386:A:C8	2.44	0.53
1:0:1684:G:O2'	1:0:1685:A:OP2	2.16	0.53
1:0:1819:U:O2	1:0:1820:G:C1'	2.56	0.53
1:0:2197:U:C4	1:0:2198:U:O4	2.62	0.53
1:0:2713:A:O2'	1:0:2714:A:C5'	2.57	0.53
1:0:2728:A:N1	1:0:2737:A:N7	2.57	0.53
1:0:25:U:C4	1:0:26:G:N1	2.77	0.53
1:0:309:G:N1	1:0:350:U:H5	2.07	0.53
1:0:459:A:N7	1:0:484:G:C6	2.77	0.53
1:0:625:A:N3	1:0:625:A:H2'	2.23	0.53
1:0:742:G:H4'	1:0:776:G:C5'	2.39	0.53
1:0:1178:C:C2	1:0:1196:G:N2	2.77	0.53
1:0:1355:A:C8	1:0:1410:U:C1'	2.92	0.53
1:0:1476:G:C6	1:0:1477:C:C4	2.97	0.53
1:0:2096:U:H2'	1:0:2097:A:H5''	1.91	0.53
1:0:2213:G:H8	1:0:2213:G:H5''	1.74	0.53
1:0:2301:A:H2'	1:0:2302:G:H8	1.74	0.53
1:0:2616:U:C5	1:0:2617:G:C4	2.97	0.53
1:0:2630:C:H2'	1:0:2631:C:C6	2.41	0.53
1:0:2734:U:C2'	1:0:2736:U:OP1	2.57	0.53
1:0:2796:A:C4	1:0:2797:G:N7	2.76	0.53
1:0:2821:G:C6	1:0:2846:G:C6	2.97	0.53
1:0:2827:G:H2'	1:0:2828:C:O4'	2.08	0.53
1:0:116:A:N3	1:0:155:G:C1'	2.71	0.53
1:0:399:G:H4'	1:0:400:U:H5	1.74	0.53
1:0:461:A:N3	1:0:462:G:C8	2.77	0.53
1:0:471:A:C2	1:0:481:A:C4	2.96	0.53
1:0:577:U:C5'	1:0:956:A:H62	2.22	0.53
1:0:751:G:H2'	1:0:752:G:O4'	2.08	0.53
1:0:843:G:N3	1:0:2427:A:N6	2.57	0.53
1:0:861:G:O6	1:0:942:U:N3	2.42	0.53
1:0:941:U:O2	1:0:941:U:H2'	2.09	0.53
1:0:1017:C:O2	1:0:1018:C:C6	2.62	0.53
1:0:1055:A:H4'	1:0:1058:G:H4'	1.91	0.53
1:0:1174:G:C4	1:0:1175:A:C8	2.97	0.53
1:0:1209:G:N3	1:0:1239:A:H2	2.07	0.53
1:0:1459:U:P	1:0:1459:U:C2	3.02	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1632:A:HO2'	1:0:1633:C:P	2.28	0.53
1:0:1791:C:O2'	1:0:1792:C:P	2.66	0.53
1:0:1807:A:N3	1:0:1809:G:N7	2.57	0.53
1:0:2560:G:N3	1:0:2560:G:C2'	2.71	0.53
1:0:2571:G:C2	1:0:2582:G:N1	2.77	0.53
1:0:2770:A:H4'	1:0:2867:G:N2	2.25	0.53
1:0:113:C:O2'	1:0:114:C:H5'	2.09	0.52
1:0:475:U:O2	1:0:699:G:N2	2.42	0.52
1:0:859:U:O2	1:0:944:A:C6	2.62	0.52
1:0:1288:A:H62	1:0:1308:C:H2'	1.74	0.52
1:0:1663:C:H5''	1:0:1664:G:OP2	2.09	0.52
1:0:1688:U:O2	1:0:1690:U:H3'	2.08	0.52
1:0:1826:U:O2	1:0:1826:U:H2'	2.10	0.52
1:0:1838:G:C2	1:0:1878:C:C2	2.97	0.52
1:0:2391:A:H8	1:0:2391:A:O5'	1.91	0.52
1:0:2470:U:O2	1:0:2470:U:C2'	2.55	0.52
1:0:158:A:C2	1:0:447:U:O2'	2.63	0.52
1:0:462:G:C2'	1:0:463:C:C5'	2.82	0.52
1:0:588:G:C8	1:0:2000:U:C4	2.96	0.52
1:0:832:A:C4	1:0:833:A:C8	2.97	0.52
1:0:1177:U:C2	1:0:1197:U:O2	2.62	0.52
1:0:1328:C:C2	1:0:1329:U:C5	2.97	0.52
1:0:1459:U:C2'	1:0:1475:U:O2'	2.56	0.52
1:0:2014:A:OP1	1:0:2014:A:C4'	2.58	0.52
1:0:2376:G:C2	1:0:2399:C:O2	2.62	0.52
1:0:2544:A:H5''	1:0:2545:A:OP2	2.10	0.52
1:0:2645:C:C2'	1:0:2646:C:H5'	2.39	0.52
1:0:2665:G:C2	1:0:2704:U:O2	2.63	0.52
1:0:2691:C:H5''	1:0:2694:G:H4'	1.90	0.52
1:0:354:C:H2'	1:0:355:G:O4'	2.09	0.52
1:0:474:G:N2	1:0:476:G:H3'	2.23	0.52
1:0:583:C:H1'	1:0:2038:C:C5	2.43	0.52
1:0:594:G:C5	1:0:1264:C:N4	2.76	0.52
1:0:692:C:H2'	1:0:693:A:C8	2.40	0.52
1:0:763:A:C2	1:0:766:A:H1'	2.44	0.52
1:0:1008:G:C2	1:0:1170:U:C2	2.97	0.52
1:0:2014:A:N6	1:0:2477:C:O2	2.43	0.52
1:0:2206:C:H2'	1:0:2207:G:O4'	2.09	0.52
1:0:2223:U:H2'	1:0:2224:U:O4'	2.09	0.52
1:0:2484:G:C5	1:0:2555:G:N2	2.78	0.52
1:0:2498:U:C4	1:0:2520:A:C2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2724:G:O2'	1:0:2725:C:H5'	2.09	0.52
1:0:466:A:C2'	1:0:467:U:OP2	2.57	0.52
1:0:635:C:H2'	1:0:636:G:H5''	1.91	0.52
1:0:1145:C:C6	1:0:1147:G:OP2	2.63	0.52
1:0:1243:G:C6	1:0:1244:U:N3	2.77	0.52
1:0:1373:G:C2'	1:0:1374:G:H5'	2.39	0.52
1:0:1627:C:N4	1:0:1628:C:N4	2.56	0.52
1:0:1807:A:O2'	1:0:1808:C:H4'	2.10	0.52
1:0:2012:A:N6	1:0:2016:A:OP2	2.42	0.52
1:0:2208:U:O2'	1:0:2209:G:H5'	2.09	0.52
1:0:2396:C:H2'	1:0:2397:A:C5'	2.39	0.52
1:0:2418:A:H1'	1:0:2565:C:C2'	2.35	0.52
1:0:2511:G:N7	1:0:2512:A:N7	2.58	0.52
1:0:2552:C:O5'	1:0:2552:C:H6	1.91	0.52
1:0:2623:A:N6	1:0:2624:G:C2	2.77	0.52
1:0:2753:C:H2'	1:0:2754:C:C6	2.44	0.52
1:0:242:A:C2'	1:0:243:G:OP2	2.58	0.52
1:0:447:U:HO2'	1:0:448:C:H5	1.53	0.52
1:0:475:U:C2	1:0:801:A:C6	2.98	0.52
1:0:825:C:C1'	1:0:1263:G:C2	2.88	0.52
1:0:1044:U:H5'	1:0:1045:G:OP1	2.08	0.52
1:0:1233:A:O2'	1:0:1234:C:P	2.68	0.52
1:0:1518:C:H2'	1:0:1519:G:C8	2.44	0.52
1:0:1695:U:N3	1:0:1696:C:O2	2.42	0.52
1:0:1845:A:C6	1:0:1872:A:N6	2.78	0.52
1:0:2013:A:O2'	1:0:2014:A:O5'	2.17	0.52
1:0:2661:G:O6	1:0:2708:U:H1'	2.10	0.52
1:0:216:U:H5''	1:0:601:A:N6	2.24	0.52
1:0:636:G:O6	1:0:637:G:N2	2.42	0.52
1:0:646:C:O2'	1:0:650:U:OP1	2.27	0.52
1:0:774:A:O5'	1:0:774:A:C8	2.63	0.52
1:0:830:C:C2	1:0:1205:G:C2	2.97	0.52
1:0:872:G:H8	1:0:872:G:OP2	1.92	0.52
1:0:1420:A:H2'	1:0:1421:U:C6	2.45	0.52
1:0:2005:U:H5''	1:0:2006:G:OP1	2.10	0.52
1:0:2726:U:C4	1:0:2736:U:O4	2.62	0.52
1:0:2783:U:H3'	1:0:2783:U:C6	2.44	0.52
1:0:2856:U:C5	1:0:2857:C:H5	2.27	0.52
1:0:153:A:H2'	1:0:154:U:C6	2.45	0.52
1:0:451:A:O2'	1:0:452:G:H5'	2.09	0.52
1:0:737:C:H2'	1:0:738:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1007:A:C6	1:0:1171:A:C2	2.98	0.52
1:0:1151:U:H5''	1:0:1153:A:C5'	2.39	0.52
1:0:1465:G:N2	1:0:1466:C:C2	2.78	0.52
1:0:2010:G:H2'	1:0:2011:U:H6	1.75	0.52
1:0:2040:A:C5	1:0:2041:A:C5	2.98	0.52
1:0:2067:U:O2'	1:0:2068:C:H5'	2.10	0.52
1:0:2810:A:N6	1:0:2854:G:C4	2.78	0.52
1:0:45:C:H2'	1:0:46:C:C6	2.45	0.52
1:0:165:G:H2'	1:0:166:G:O4'	2.10	0.52
1:0:226:C:C2'	1:0:227:G:OP2	2.58	0.52
1:0:600:G:H3'	1:0:601:A:H5'	1.92	0.52
1:0:826:U:H2'	1:0:827:C:C6	2.44	0.52
1:0:1103:C:O5'	1:0:1103:C:H6	1.92	0.52
1:0:1197:U:H2'	1:0:1198:C:O4'	2.09	0.52
1:0:1618:U:H3'	1:0:1618:U:C6	2.45	0.52
1:0:1641:C:C2'	1:0:1642:G:H5'	2.40	0.52
1:0:1900:U:H2'	1:0:1901:A:H8	1.74	0.52
1:0:2016:A:C6	1:0:2019:C:C6	2.98	0.52
1:0:2270:U:O2'	1:0:2271:C:H5'	2.10	0.52
1:0:2418:A:O2'	1:0:2566:A:H5''	2.09	0.52
1:0:2420:C:H4'	1:0:2420:C:OP1	2.10	0.52
1:0:76:C:H6	1:0:76:C:C5'	2.18	0.52
1:0:140:G:H2'	1:0:141:G:C8	2.45	0.52
1:0:244:C:H5'	1:0:245:C:OP2	2.10	0.52
1:0:851:C:C2	1:0:952:A:C6	2.98	0.52
1:0:953:G:H2'	1:0:954:U:O4'	2.09	0.52
1:0:1007:A:H2'	1:0:1008:G:H8	1.73	0.52
1:0:1166:A:C3'	1:0:1167:A:H5''	2.40	0.52
1:0:1261:G:O2'	1:0:1262:U:P	2.67	0.52
1:0:1627:C:N3	1:0:1628:C:C5	2.78	0.52
1:0:1820:G:O2'	1:0:1821:A:P	2.68	0.52
1:0:1981:A:C6	1:0:1982:C:C4	2.98	0.52
1:0:2058:U:H3'	1:0:2217:G:C2	2.44	0.52
1:0:2677:U:H2'	1:0:2678:C:H6	1.75	0.52
1:0:2857:C:H2'	1:0:2858:A:O5'	2.10	0.52
1:0:135:U:H2'	1:0:136:A:C8	2.44	0.52
1:0:591:G:C2	1:0:592:G:C4	2.97	0.52
1:0:861:G:C8	1:0:862:A:C8	2.98	0.52
1:0:1151:U:C5'	1:0:1153:A:OP1	2.58	0.52
1:0:1774:A:N1	1:0:2566:A:C2'	2.65	0.52
1:0:1872:A:H2'	1:0:1873:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1918:G:C2'	1:0:1945:C:H42	2.12	0.52
1:0:1928:G:N2	1:0:1929:U:C2	2.78	0.52
1:0:2183:C:O2'	1:0:2184:C:H5'	2.10	0.52
1:0:2306:A:C5	1:0:2367:A:N1	2.78	0.52
1:0:2571:G:C6	1:0:2572:U:N3	2.78	0.52
1:0:2727:G:O6	1:0:2735:C:H5''	2.10	0.52
1:0:2739:G:C2'	1:0:2740:C:H5'	2.40	0.52
1:0:6:A:O2'	1:0:7:G:H5'	2.10	0.51
1:0:59:G:C5	1:0:62:U:C5	2.99	0.51
1:0:83:A:H2	1:0:101:A:C4	2.27	0.51
1:0:577:U:O2	1:0:579:G:C8	2.63	0.51
1:0:713:G:H2'	1:0:714:G:O4'	2.10	0.51
1:0:947:C:H2'	1:0:948:C:H6	1.74	0.51
1:0:1034:U:C4	1:0:1035:G:N3	2.77	0.51
1:0:1216:G:C2	1:0:1257:U:O2	2.63	0.51
1:0:1226:A:N9	1:0:1250:A:N3	2.57	0.51
1:0:1260:A:N6	1:0:1262:U:O2	2.42	0.51
1:0:1830:C:H41	1:0:1881:U:H3'	1.72	0.51
1:0:1953:A:C2	1:0:1955:G:N7	2.77	0.51
1:0:2175:A:H2'	1:0:2176:U:H6	1.70	0.51
1:0:2505:G:N1	1:0:2517:C:C2	2.78	0.51
1:0:2571:G:O5'	1:0:2571:G:H8	1.93	0.51
1:0:2663:U:C4	1:0:2664:G:N7	2.78	0.51
1:0:58:C:C5	1:0:72:A:N6	2.78	0.51
1:0:66:U:O2	1:0:67:G:O6	2.27	0.51
1:0:157:G:H5'	1:0:158:A:OP1	2.10	0.51
1:0:163:A:H2'	1:0:164:G:C8	2.45	0.51
1:0:202:A:N6	1:0:203:G:N3	2.58	0.51
1:0:456:C:O2'	1:0:457:C:H5'	2.11	0.51
1:0:461:A:C2	1:0:462:G:C4	2.97	0.51
1:0:794:A:H2	1:0:1767:G:N3	2.07	0.51
1:0:824:U:H3'	1:0:824:U:C6	2.45	0.51
1:0:855:G:N2	1:0:948:C:C2	2.78	0.51
1:0:1037:U:H3'	1:0:1037:U:H6	1.75	0.51
1:0:1086:C:H3'	1:0:1086:C:H6	1.75	0.51
1:0:1153:A:O2'	1:0:1154:A:C3'	2.58	0.51
1:0:1177:U:H2'	1:0:1178:C:H6	1.74	0.51
1:0:1439:G:H3'	1:0:1439:G:P	2.51	0.51
1:0:1440:G:OP2	1:0:1440:G:C8	2.63	0.51
1:0:1923:U:C4'	1:0:1924:C:OP1	2.58	0.51
1:0:2225:G:C5	1:0:2405:A:N3	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2507:U:HO2'	1:0:2508:G:H8	1.57	0.51
1:0:2569:A:H2'	1:0:2570:C:H6	1.74	0.51
1:0:324:C:H2'	1:0:325:U:O4'	2.11	0.51
1:0:490:A:C2	1:0:491:A:C6	2.98	0.51
1:0:494:A:C8	1:0:495:C:C5	2.98	0.51
1:0:749:C:N4	1:0:750:C:N4	2.58	0.51
1:0:1128:G:O2'	1:0:1129:A:H5'	2.11	0.51
1:0:1251:G:H21	1:0:1252:C:H1'	1.76	0.51
1:0:1950:C:N4	1:0:1951:G:C6	2.78	0.51
1:0:2514:G:N2	1:0:2515:G:C1'	2.73	0.51
1:0:2691:C:C3'	1:0:2692:A:H5''	2.41	0.51
1:0:2759:U:H6	1:0:2759:U:H3'	1.75	0.51
1:0:4:C:H2'	1:0:5:A:O4'	2.11	0.51
1:0:500:G:P	1:0:500:G:H8	2.33	0.51
1:0:830:C:H2'	1:0:831:G:C8	2.44	0.51
1:0:1013:G:N2	1:0:1165:G:H1'	2.26	0.51
1:0:1436:G:H22	1:0:1593:C:C1'	2.23	0.51
1:0:1455:C:H2'	1:0:1456:C:H6	1.75	0.51
1:0:1987:G:H2'	1:0:1988:A:H5'	1.93	0.51
1:0:109:A:H2'	1:0:110:U:C5'	2.22	0.51
1:0:464:G:H2'	1:0:465:C:C6	2.46	0.51
1:0:491:A:H2	1:0:509:U:O2	1.93	0.51
1:0:723:C:N3	1:0:735:G:C6	2.78	0.51
1:0:1286:U:H5''	1:0:1663:C:H41	1.72	0.51
1:0:1368:G:C6	1:0:1369:G:N7	2.79	0.51
1:0:1706:A:N7	1:0:1715:A:C2	2.78	0.51
1:0:1838:G:C2'	1:0:1839:A:H5'	2.40	0.51
1:0:2050:G:C6	1:0:2052:G:C5	2.98	0.51
1:0:2256:G:C6	1:0:2257:A:N7	2.78	0.51
1:0:2373:C:H2'	1:0:2374:C:C6	2.45	0.51
1:0:2394:G:C6	1:0:2395:C:C4	2.99	0.51
1:0:2678:C:O2	1:0:2688:G:N2	2.44	0.51
1:0:177:U:O4	1:0:225:G:C2	2.63	0.51
1:0:342:G:O2'	1:0:343:A:P	2.69	0.51
1:0:548:G:C2	1:0:549:G:C8	2.98	0.51
1:0:551:A:C2	1:0:562:G:N3	2.78	0.51
1:0:580:A:O2'	1:0:582:G:OP2	2.24	0.51
1:0:742:G:H4'	1:0:776:G:C4'	2.37	0.51
1:0:836:G:C4	1:0:837:U:C5	2.99	0.51
1:0:1271:C:H2'	1:0:1272:G:O4'	2.11	0.51
1:0:1355:A:N7	1:0:1410:U:C6	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1438:G:H22	1:0:1590:C:H2'	1.74	0.51
1:0:1499:A:H2'	1:0:1500:U:C6	2.45	0.51
1:0:1764:A:H3'	1:0:1764:A:C8	2.46	0.51
1:0:2200:G:H2'	1:0:2201:G:H8	1.74	0.51
1:0:2204:A:H4'	1:0:2205:C:H6	1.74	0.51
1:0:2262:C:C4	1:0:2368:G:C4	2.98	0.51
1:0:2310:G:N2	1:0:2364:C:N3	2.59	0.51
1:0:2434:G:H2'	1:0:2435:C:C6	2.46	0.51
1:0:2487:G:H2'	1:0:2488:G:O4'	2.11	0.51
1:0:2667:C:H42	1:0:2699:G:H3'	1.75	0.51
1:0:2728:A:C2	1:0:2737:A:N7	2.79	0.51
1:0:2825:A:C4	1:0:2826:C:C5	2.99	0.51
1:0:930:A:C8	1:0:931:G:O4'	2.64	0.51
1:0:981:C:C4	1:0:982:C:C5	2.99	0.51
1:0:1141:U:O2'	1:0:1142:G:P	2.69	0.51
1:0:1255:A:C4	1:0:1256:C:C5	2.98	0.51
1:0:1281:A:C2	1:0:1996:A:C4	2.98	0.51
1:0:1908:C:N3	1:0:1909:U:H1'	2.26	0.51
1:0:1963:G:C2	1:0:1965:U:N3	2.79	0.51
1:0:2079:A:N1	1:0:2177:U:O2	2.44	0.51
1:0:2617:G:C5	1:0:2755:A:N1	2.79	0.51
1:0:179:U:H2'	1:0:180:C:C6	2.44	0.51
1:0:459:A:N1	1:0:466:A:N7	2.58	0.51
1:0:571:U:O2	1:0:581:A:N9	2.42	0.51
1:0:697:G:C6	1:0:788:G:N7	2.78	0.51
1:0:1070:G:H2'	1:0:1071:U:O4'	2.10	0.51
1:0:1474:A:C2	1:0:1476:G:N7	2.79	0.51
1:0:1477:C:O2'	1:0:2681:A:N3	2.39	0.51
1:0:1693:A:N1	1:0:1694:A:C2	2.78	0.51
1:0:1707:A:N7	1:0:1714:A:H2	2.09	0.51
1:0:1990:U:C4	1:0:1991:C:N4	2.78	0.51
1:0:2470:U:H3'	1:0:2471:U:C5	2.45	0.51
1:0:2523:G:H2'	1:0:2524:G:O4'	2.11	0.51
1:0:2594:U:H5'	1:0:2594:U:C6	2.46	0.51
1:0:2677:U:H2'	1:0:2678:C:C6	2.46	0.51
3:0:2881:G80:H14	3:0:2881:G80:C10	2.33	0.51
1:0:297:A:N6	1:0:366:U:N3	2.59	0.51
1:0:460:U:H4'	1:0:461:A:OP2	2.11	0.51
1:0:496:C:C2	1:0:506:G:N2	2.79	0.51
1:0:635:C:C3'	1:0:636:G:H5''	2.40	0.51
1:0:664:C:C2	1:0:665:A:N7	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:876:A:C2	1:0:877:G:C4	2.99	0.51
1:0:976:C:H1'	1:0:2252:A:H2	1.72	0.51
1:0:1010:U:H3'	1:0:1165:G:O6	2.10	0.51
1:0:1017:C:O2'	1:0:1018:C:H5'	2.11	0.51
1:0:1154:A:O2'	1:0:1155:G:OP1	2.29	0.51
1:0:1383:C:C2	1:0:1384:G:C8	2.99	0.51
1:0:1717:A:C8	1:0:1718:A:C8	2.99	0.51
1:0:1763:G:C2'	1:0:1764:A:H5'	2.41	0.51
1:0:2014:A:N7	1:0:2477:C:O2	2.44	0.51
1:0:2217:G:C2'	1:0:2217:G:N3	2.73	0.51
1:0:2449:G:N2	1:0:2450:A:C4	2.79	0.51
1:0:2716:G:O2'	1:0:2717:G:H5'	2.10	0.51
1:0:67:G:C5	1:0:72:A:H2	2.28	0.51
1:0:465:C:O3'	1:0:483:A:N6	2.44	0.51
1:0:830:C:C2	1:0:1205:G:N2	2.78	0.51
1:0:832:A:N7	1:0:1202:U:C4	2.79	0.51
1:0:956:A:C6	1:0:2427:A:C2	2.98	0.51
1:0:1018:C:OP2	1:0:1020:A:OP2	2.28	0.51
1:0:1198:C:H5''	1:0:1199:U:O2'	2.10	0.51
1:0:1459:U:H2'	1:0:1459:U:O2	2.10	0.51
1:0:1759:A:C6	1:0:1968:G:C6	2.98	0.51
1:0:1797:C:O2'	1:0:1798:G:H5'	2.11	0.51
1:0:173:A:H61	1:0:844:G:H21	1.59	0.50
1:0:177:U:H5	1:0:225:G:N3	2.07	0.50
1:0:312:G:C4	1:0:313:U:C5	2.99	0.50
1:0:333:A:C2	1:0:351:A:C6	2.99	0.50
1:0:447:U:O2'	1:0:448:C:C6	2.64	0.50
1:0:459:A:N6	1:0:484:G:C4	2.79	0.50
1:0:524:A:O2'	1:0:525:A:H5'	2.11	0.50
1:0:583:C:H4'	1:0:584:A:O5'	2.11	0.50
1:0:778:G:H5'	1:0:778:G:H8	1.76	0.50
1:0:873:U:H3	1:0:2247:A:P	2.34	0.50
1:0:1288:A:N7	1:0:1309:G:H1'	2.26	0.50
1:0:1430:G:H2'	1:0:1431:U:C6	2.46	0.50
1:0:2254:C:O2'	1:0:2255:G:P	2.70	0.50
1:0:2264:C:O4'	1:0:2267:A:N6	2.43	0.50
1:0:2457:A:H1'	1:0:2508:G:N7	2.25	0.50
1:0:2519:C:C4	1:0:2520:A:N7	2.79	0.50
1:0:2787:A:O2'	1:0:2788:C:C5'	2.60	0.50
1:0:14:A:C2	1:0:536:A:N1	2.79	0.50
1:0:232:A:N6	1:0:233:A:N1	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:634:G:H2'	1:0:635:C:H6	1.71	0.50
1:0:666:U:OP1	1:0:667:U:OP2	2.30	0.50
1:0:832:A:C5	1:0:833:A:N7	2.79	0.50
1:0:834:A:N7	1:0:957:G:C5	2.79	0.50
1:0:1151:U:OP1	1:0:1153:A:OP1	2.29	0.50
1:0:1201:G:N2	1:0:1202:U:C5	2.79	0.50
1:0:1254:G:H2'	1:0:1255:A:C8	2.45	0.50
1:0:1288:A:H61	1:0:1309:G:H5'	1.76	0.50
1:0:1621:C:C4'	1:0:1626:A:N6	2.71	0.50
1:0:1624:A:C8	1:0:1627:C:N4	2.79	0.50
1:0:1653:C:O2'	1:0:1751:A:N3	2.36	0.50
1:0:1734:C:H3'	1:0:1735:G:O4'	2.10	0.50
1:0:2425:G:C2'	1:0:2426:G:H5''	2.35	0.50
1:0:2564:U:O2	1:0:2564:U:C3'	2.59	0.50
1:0:13:A:C5'	1:0:14:A:OP1	2.59	0.50
1:0:222:G:H2'	1:0:223:C:C6	2.46	0.50
1:0:224:G:O2'	1:0:227:G:N7	2.31	0.50
1:0:536:A:C6	1:0:2605:C:H4'	2.46	0.50
1:0:651:C:H2'	1:0:652:C:H5''	1.92	0.50
1:0:765:C:C2'	1:0:766:A:OP2	2.58	0.50
1:0:788:G:H5''	1:0:790:A:C1'	2.41	0.50
1:0:876:A:H61	1:0:924:C:N4	2.09	0.50
1:0:972:C:C4	1:0:2014:A:C2	2.95	0.50
1:0:972:C:C6	1:0:2014:A:C2	2.99	0.50
1:0:1465:G:N2	1:0:1466:C:O2	2.44	0.50
1:0:1541:G:H22	1:0:1561:A:N6	2.09	0.50
1:0:1631:C:N4	1:0:1633:C:C2	2.78	0.50
1:0:1727:C:H4'	1:0:2833:C:N3	2.26	0.50
1:0:1911:A:C3'	1:0:1912:G:H5'	2.42	0.50
1:0:1956:G:H8	1:0:1956:G:H5'	1.76	0.50
1:0:2061:C:H42	1:0:2220:A:N6	2.01	0.50
1:0:2490:U:N3	1:0:2491:C:C4	2.80	0.50
1:0:2765:C:H2'	1:0:2766:U:H6	1.71	0.50
1:0:23:G:C6	1:0:24:G:N7	2.79	0.50
1:0:24:G:C2	1:0:25:U:C2	3.00	0.50
1:0:67:G:C2	1:0:73:A:C4	3.00	0.50
1:0:126:C:H2'	1:0:127:C:C6	2.47	0.50
1:0:196:A:O2'	1:0:197:G:H5'	2.11	0.50
1:0:459:A:N7	1:0:484:G:C5	2.79	0.50
1:0:500:G:C8	1:0:500:G:O5'	2.65	0.50
1:0:529:U:C2	1:0:530:G:N7	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:684:C:C2'	1:0:685:U:O5'	2.60	0.50
1:0:1061:A:N1	1:0:2731:G:O6	2.44	0.50
1:0:1196:G:O2'	1:0:1197:U:H5'	2.11	0.50
1:0:1609:G:H2'	1:0:1610:A:C8	2.47	0.50
1:0:1627:C:H42	1:0:1628:C:N4	2.09	0.50
1:0:1684:G:HO2'	1:0:1685:A:P	2.30	0.50
1:0:1767:G:O2'	1:0:1768:U:H5'	2.11	0.50
1:0:1976:U:O2	1:0:1976:U:C2'	2.59	0.50
1:0:2040:A:N7	1:0:2041:A:N7	2.59	0.50
1:0:2061:C:O2	1:0:2061:C:H2'	2.12	0.50
1:0:2226:A:H2'	1:0:2227:C:C6	2.45	0.50
1:0:2301:A:C4	1:0:2302:G:C8	3.00	0.50
1:0:2324:G:N2	1:0:2361:G:N3	2.59	0.50
1:0:2771:C:H1'	1:0:2782:G:N2	2.23	0.50
1:0:177:U:O2	1:0:178:C:N1	2.45	0.50
1:0:199:A:N6	1:0:201:G:C4	2.80	0.50
1:0:204:A:H61	1:0:423:G:N2	2.03	0.50
1:0:322:A:OP1	1:0:343:A:H2	1.95	0.50
1:0:649:G:N1	1:0:660:G:N1	2.59	0.50
1:0:812:G:C6	1:0:813:A:N6	2.80	0.50
1:0:859:U:O2'	1:0:860:U:O5'	2.30	0.50
1:0:976:C:C1'	1:0:2252:A:N3	2.75	0.50
1:0:1035:G:OP1	1:0:1037:U:OP1	2.29	0.50
1:0:1309:G:C2'	1:0:1310:C:O5'	2.59	0.50
1:0:1624:A:C2'	1:0:1625:A:OP2	2.59	0.50
1:0:1900:U:H2'	1:0:1901:A:C8	2.47	0.50
1:0:2241:U:C4	1:0:2258:G:N1	2.79	0.50
1:0:15:G:H2'	1:0:16:G:H8	1.77	0.50
1:0:54:G:N2	1:0:114:C:C2	2.80	0.50
1:0:210:A:N6	1:0:442:A:H61	2.09	0.50
1:0:515:A:C2'	1:0:516:G:H5'	2.41	0.50
1:0:635:C:O2'	1:0:670:U:H5''	2.11	0.50
1:0:762:A:N3	1:0:1634:A:H2'	2.27	0.50
1:0:941:U:H2'	1:0:942:U:O4'	2.11	0.50
1:0:972:C:C6	1:0:972:C:H5''	2.47	0.50
1:0:1084:A:H2'	1:0:1085:G:H8	1.76	0.50
1:0:1453:A:H2'	1:0:1454:U:H5'	1.93	0.50
1:0:1621:C:H1'	1:0:1626:A:N7	2.26	0.50
1:0:1631:C:O2'	1:0:1632:A:O5'	2.30	0.50
1:0:1672:A:N7	1:0:1988:A:H2	2.10	0.50
1:0:1696:C:H6	1:0:1697:U:C6	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1882:G:N2	1:0:1885:C:H41	1.95	0.50
1:0:1937:G:OP2	1:0:1937:G:O4'	2.30	0.50
1:0:2245:A:O2'	1:0:2246:A:OP2	2.22	0.50
1:0:2275:U:HO2'	1:0:2276:C:H6	1.58	0.50
1:0:2363:G:H5''	1:0:2365:U:OP1	2.12	0.50
1:0:2426:G:O2'	1:0:2427:A:O5'	2.30	0.50
1:0:2433:G:C6	1:0:2478:C:N4	2.79	0.50
1:0:2758:A:HO2'	1:0:2759:U:P	2.31	0.50
1:0:18:U:C6	1:0:19:C:C5	2.99	0.50
1:0:73:A:O2'	1:0:74:G:P	2.70	0.50
1:0:394:U:H2'	1:0:395:G:C8	2.47	0.50
1:0:499:G:H1'	1:0:502:A:N6	2.26	0.50
1:0:538:A:N6	1:0:2025:A:N7	2.60	0.50
1:0:541:C:C5	1:0:572:G:O4'	2.65	0.50
1:0:750:C:O2'	1:0:751:G:H5'	2.12	0.50
1:0:1016:C:H4'	1:0:1023:U:N1	2.26	0.50
1:0:1137:A:H2'	1:0:1137:A:N3	2.27	0.50
1:0:1763:G:H2'	1:0:1764:A:C5'	2.41	0.50
1:0:1770:U:H5	1:0:1775:A:N7	2.10	0.50
1:0:1774:A:C2	1:0:2566:A:H2'	2.45	0.50
1:0:2033:C:C5	1:0:2034:A:N7	2.80	0.50
1:0:2262:C:N3	1:0:2368:G:C2	2.80	0.50
1:0:2338:C:H2'	1:0:2339:A:C8	2.46	0.50
1:0:2484:G:C1'	3:0:2881:G80:H182	2.42	0.50
1:0:2700:U:H2'	1:0:2701:A:H8	1.77	0.50
1:0:18:U:H2'	1:0:19:C:C6	2.43	0.50
1:0:170:U:H5	1:0:171:G:N7	2.09	0.50
1:0:321:A:H2'	1:0:323:G:C5	2.45	0.50
1:0:388:G:H2'	1:0:389:G:C8	2.47	0.50
1:0:459:A:C5	1:0:484:G:C5	3.00	0.50
1:0:697:G:C6	1:0:788:G:C8	3.00	0.50
1:0:746:G:C8	1:0:774:A:N1	2.80	0.50
1:0:793:G:N1	1:0:795:A:C2	2.80	0.50
1:0:833:A:H2	1:0:834:A:C4	2.30	0.50
1:0:859:U:O2'	1:0:860:U:O4'	2.29	0.50
1:0:1020:A:N7	1:0:1021:A:N1	2.60	0.50
1:0:1033:G:N2	1:0:1035:G:N2	2.60	0.50
1:0:1333:G:N2	1:0:1344:C:H5	2.06	0.50
1:0:1410:U:O2	1:0:1410:U:H2'	2.11	0.50
1:0:1541:G:O2'	1:0:1542:G:H5'	2.12	0.50
1:0:1585:A:H2'	1:0:1586:A:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1922:U:O2'	1:0:1923:U:OP1	2.27	0.50
1:0:1950:C:C2	1:0:1951:G:C8	2.99	0.50
1:0:2038:C:N4	1:0:2479:U:H1'	2.27	0.50
1:0:2301:A:H2'	1:0:2302:G:O4'	2.12	0.50
1:0:2397:A:H2'	1:0:2398:U:O4'	2.12	0.50
1:0:2542:U:O2	1:0:2545:A:N7	2.44	0.50
1:0:2814:G:H2'	1:0:2815:C:H6	1.77	0.50
1:0:175:C:H3'	1:0:175:C:H6	1.77	0.50
1:0:206:U:OP2	1:0:206:U:H6	1.94	0.50
1:0:1188:A:OP2	1:0:1189:G:C6	2.65	0.50
1:0:1333:G:N2	1:0:1344:C:C5	2.80	0.50
1:0:1438:G:H3'	1:0:1439:G:H8	1.76	0.50
1:0:1469:U:OP1	1:0:1470:G:OP2	2.30	0.50
1:0:1479:G:N2	1:0:1543:G:N2	2.52	0.50
1:0:1510:A:O2'	1:0:1511:A:H5'	2.12	0.50
1:0:1544:A:C2	1:0:1559:G:N2	2.79	0.50
1:0:1578:U:H2'	1:0:1579:G:H8	1.77	0.50
1:0:1594:U:H2'	1:0:1595:A:H8	1.77	0.50
1:0:1917:C:H2'	1:0:1918:G:H5'	1.94	0.50
1:0:1917:C:H2'	1:0:1918:G:C5'	2.42	0.50
1:0:1918:G:H4'	1:0:1920:A:C2	2.47	0.50
1:0:1981:A:N6	1:0:1982:C:N4	2.60	0.50
1:0:2016:A:C6	1:0:2019:C:C5	3.00	0.50
1:0:2031:A:C2	1:0:2032:G:H1'	2.46	0.50
1:0:2262:C:C2	1:0:2368:G:C2	2.99	0.50
1:0:2409:A:H2'	1:0:2410:U:H5'	1.94	0.50
1:0:2482:A:C5'	1:0:2483:U:OP2	2.60	0.50
1:0:2658:A:O2'	1:0:2659:C:H5'	2.11	0.50
1:0:2782:G:H5''	1:0:2783:U:H5''	1.94	0.50
1:0:2816:C:C2	1:0:2852:G:N2	2.79	0.50
1:0:127:C:O2'	1:0:128:C:H5'	2.12	0.49
1:0:403:A:H4'	1:0:404:A:O5'	2.11	0.49
1:0:548:G:C2'	1:0:549:G:H5'	2.42	0.49
1:0:604:U:H2'	1:0:605:G:H8	1.77	0.49
1:0:608:G:H2'	1:0:609:U:C6	2.46	0.49
1:0:971:A:N6	1:0:973:U:C2	2.80	0.49
1:0:1356:G:H1'	1:0:1613:G:C2	2.47	0.49
1:0:1436:G:N2	1:0:1514:C:H1'	2.19	0.49
1:0:1655:C:H5''	1:0:2689:C:O2'	2.11	0.49
1:0:1711:C:O2'	1:0:1712:G:OP2	2.27	0.49
1:0:1801:C:H3'	1:0:1802:A:H5''	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1845:A:O2'	1:0:1846:A:H5'	2.11	0.49
1:0:2438:A:N6	1:0:2473:G:C5	2.80	0.49
1:0:168:A:H2'	1:0:169:C:C6	2.47	0.49
1:0:171:G:N2	1:0:179:U:H1'	2.27	0.49
1:0:216:U:O2'	1:0:217:U:H5'	2.11	0.49
1:0:344:G:C2	1:0:345:U:C6	3.00	0.49
1:0:388:G:O2'	1:0:389:G:H5'	2.12	0.49
1:0:670:U:H2'	1:0:671:A:C8	2.47	0.49
1:0:697:G:O6	1:0:788:G:C8	2.65	0.49
1:0:1386:A:H2'	1:0:1387:G:O4'	2.12	0.49
1:0:1398:G:O2'	1:0:1399:C:O4'	2.30	0.49
1:0:1645:U:O2	1:0:2677:U:H4'	2.13	0.49
1:0:1748:U:O4	1:0:1753:A:C2	2.65	0.49
1:0:1769:U:O2'	1:0:1770:U:H5'	2.11	0.49
1:0:1904:G:C2'	1:0:1905:G:O4'	2.59	0.49
1:0:1918:G:C2'	1:0:1945:C:N4	2.72	0.49
1:0:1969:G:N3	1:0:1970:G:C8	2.80	0.49
1:0:2066:G:O6	1:0:2216:G:N2	2.45	0.49
1:0:2296:U:H2'	1:0:2297:G:C8	2.47	0.49
1:0:2502:G:C8	1:0:2745:A:N7	2.80	0.49
1:0:2655:C:H2'	1:0:2656:G:C8	2.46	0.49
1:0:25:U:C4	1:0:26:G:C2	3.01	0.49
1:0:83:A:N6	1:0:98:U:H1'	2.22	0.49
1:0:171:G:C2'	1:0:172:A:C5'	2.85	0.49
1:0:176:A:N3	1:0:2412:A:C2	2.79	0.49
1:0:317:U:H3	1:0:321:A:H62	1.60	0.49
1:0:434:C:H2'	1:0:435:A:OP2	2.12	0.49
1:0:541:C:C4	1:0:572:G:O4'	2.66	0.49
1:0:577:U:H5'	1:0:956:A:H62	1.77	0.49
1:0:765:C:O2'	1:0:766:A:H8	1.94	0.49
1:0:1221:C:H2'	1:0:1222:G:H8	1.77	0.49
1:0:1400:A:C2	1:0:1401:G:C4	3.00	0.49
1:0:1483:G:H2'	1:0:1484:G:C8	2.42	0.49
1:0:1598:C:O2'	1:0:1599:G:H5'	2.12	0.49
1:0:1659:G:H2'	1:0:1660:G:O5'	2.12	0.49
1:0:1708:C:O2	1:0:1708:C:H2'	2.12	0.49
1:0:1918:G:H1'	1:0:1947:G:N2	2.27	0.49
1:0:2307:A:H2'	1:0:2308:A:C8	2.46	0.49
1:0:2522:G:H5'	1:0:2522:G:C8	2.43	0.49
1:0:2668:U:H5'	1:0:2669:C:H5'	1.94	0.49
1:0:2673:G:O2'	1:0:2674:C:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2705:A:C5	1:0:2707:G:N7	2.80	0.49
1:0:2761:A:C5'	1:0:2762:G:H5'	2.36	0.49
1:0:155:G:C2'	1:0:156:G:H5'	2.43	0.49
1:0:352:G:C6	1:0:353:G:N7	2.81	0.49
1:0:490:A:HO2'	1:0:491:A:H5'	1.76	0.49
1:0:492:G:C2'	1:0:493:A:OP2	2.59	0.49
1:0:537:C:O2'	1:0:538:A:C2	2.65	0.49
1:0:631:G:H4'	1:0:632:A:H5''	1.90	0.49
1:0:672:C:C2'	1:0:673:G:H5'	2.42	0.49
1:0:991:A:C6	1:0:992:A:C2	3.01	0.49
1:0:992:A:C5'	1:0:993:C:OP2	2.54	0.49
1:0:1007:A:N6	1:0:1171:A:C6	2.79	0.49
1:0:1312:G:H4'	1:0:1313:U:H5'	1.94	0.49
1:0:1671:A:C6	1:0:1672:A:N7	2.80	0.49
1:0:1684:G:O2'	1:0:1685:A:P	2.71	0.49
1:0:1953:A:N3	1:0:1955:G:C8	2.80	0.49
1:0:1953:A:H2'	1:0:1954:A:OP2	2.12	0.49
1:0:2030:U:C2'	1:0:2031:A:H5'	2.42	0.49
1:0:2217:G:N3	1:0:2217:G:H2'	2.27	0.49
1:0:2242:C:N4	1:0:2243:C:N4	2.60	0.49
1:0:2426:G:C4'	1:0:2427:A:C5'	2.81	0.49
1:0:2455:A:C2	1:0:2460:G:N2	2.80	0.49
1:0:2559:U:O2'	1:0:2560:G:H5'	2.12	0.49
1:0:2685:A:C2	1:0:2686:C:C2	3.00	0.49
1:0:2866:A:H2'	1:0:2867:G:C8	2.47	0.49
1:0:323:G:N3	1:0:323:G:H2'	2.28	0.49
1:0:441:A:C8	1:0:442:A:C8	3.00	0.49
1:0:500:G:H8	1:0:500:G:OP1	1.95	0.49
1:0:772:G:C4	1:0:773:G:C8	3.01	0.49
1:0:822:G:H2'	1:0:823:U:C6	2.47	0.49
1:0:1010:U:O2'	1:0:1011:A:H5'	2.13	0.49
1:0:1140:A:C5	1:0:2549:G:O4'	2.65	0.49
1:0:1234:C:H2'	1:0:1235:C:C6	2.47	0.49
1:0:1681:A:C2	1:0:1682:A:C4	3.00	0.49
1:0:1937:G:H2'	1:0:1939:U:C4	2.47	0.49
1:0:1979:C:H2'	1:0:1980:A:O5'	2.13	0.49
1:0:1995:G:H8	1:0:1995:G:O5'	1.96	0.49
1:0:2016:A:N1	1:0:2019:C:C6	2.80	0.49
1:0:2462:C:C5	1:0:2463:G:C8	3.00	0.49
1:0:2540:A:C2'	1:0:2541:U:O5'	2.60	0.49
1:0:2557:G:N3	1:0:2558:C:C6	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:13:A:N3	1:0:15:G:O6	2.46	0.49
1:0:65:C:O2'	1:0:66:U:H5'	2.12	0.49
1:0:107:G:N2	1:0:108:G:H1'	2.28	0.49
1:0:174:A:C6	1:0:2409:A:C5	3.01	0.49
1:0:632:A:N3	1:0:632:A:C3'	2.72	0.49
1:0:640:C:C4	1:0:641:G:N7	2.80	0.49
1:0:790:A:N1	1:0:791:G:C5	2.81	0.49
1:0:820:U:H2'	1:0:821:A:H8	1.76	0.49
1:0:824:U:H4'	1:0:1264:C:H1'	1.95	0.49
1:0:918:A:H2'	1:0:919:U:C5'	2.14	0.49
1:0:1621:C:C5'	1:0:1626:A:H62	2.25	0.49
1:0:1643:A:H1'	1:0:1657:A:H2	1.78	0.49
1:0:2039:G:H2'	1:0:2040:A:H5'	1.94	0.49
1:0:2041:A:C5'	1:0:2042:A:OP2	2.52	0.49
1:0:2298:U:H4'	1:0:2299:A:N7	2.27	0.49
1:0:2307:A:N1	1:0:2308:A:C6	2.80	0.49
1:0:2493:U:O2	1:0:2493:U:C2'	2.59	0.49
1:0:2725:C:H2'	1:0:2726:U:C5	2.46	0.49
1:0:2739:G:H2'	1:0:2740:C:H5'	1.94	0.49
1:0:102:C:O5'	1:0:102:C:H6	1.95	0.49
1:0:177:U:O2	1:0:178:C:O4'	2.30	0.49
1:0:685:U:C4	1:0:822:G:N1	2.80	0.49
1:0:810:U:C6	1:0:810:U:C3'	2.96	0.49
1:0:944:A:C2	1:0:945:G:H1'	2.47	0.49
1:0:986:A:C5	1:0:987:G:C8	3.00	0.49
1:0:1139:A:C2'	1:0:1140:A:O5'	2.61	0.49
1:0:1289:A:N7	1:0:1662:G:N2	2.61	0.49
1:0:1436:G:C6	1:0:1592:U:O2	2.66	0.49
1:0:1466:C:H2'	1:0:1467:U:H5'	1.95	0.49
1:0:1815:G:C2'	1:0:1816:G:H5'	2.43	0.49
1:0:2009:U:H6	1:0:2009:U:H5''	1.78	0.49
1:0:2108:G:C2	1:0:2157:C:C4	3.01	0.49
1:0:2238:G:H5''	1:0:2238:G:H8	1.78	0.49
1:0:2311:U:O2'	1:0:2312:A:OP2	2.29	0.49
1:0:2325:A:O2'	1:0:2326:C:P	2.71	0.49
1:0:2372:A:H62	1:0:2401:A:H61	1.58	0.49
1:0:2507:U:O2'	1:0:2508:G:H8	1.96	0.49
1:0:2594:U:C2	1:0:2595:C:C6	3.01	0.49
1:0:2638:G:O5'	1:0:2638:G:H8	1.95	0.49
1:0:2756:A:O2'	1:0:2757:G:OP2	2.30	0.49
1:0:2756:A:H3'	1:0:2756:A:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2762:G:H21	1:0:2763:U:H1'	1.78	0.49
1:0:2785:A:H61	1:0:2865:G:H1'	1.77	0.49
1:0:24:G:H2'	1:0:25:U:C6	2.47	0.49
1:0:212:U:N3	1:0:443:A:H2	2.10	0.49
1:0:335:A:N6	1:0:349:G:O2'	2.46	0.49
1:0:608:G:O2'	1:0:609:U:H5'	2.13	0.49
1:0:630:G:H5''	1:0:631:G:OP2	2.13	0.49
1:0:633:G:C6	1:0:634:G:C6	3.00	0.49
1:0:881:U:H2'	1:0:882:C:H6	1.77	0.49
1:0:940:G:H8	1:0:940:G:O5'	1.95	0.49
1:0:958:G:C4	1:0:959:C:C5	3.00	0.49
1:0:985:G:O4'	1:0:1200:G:N2	2.44	0.49
1:0:1025:A:C2	1:0:1160:C:C2	3.00	0.49
1:0:1112:U:O5'	1:0:1112:U:H6	1.95	0.49
1:0:1279:G:N2	1:0:1995:G:H2'	2.28	0.49
1:0:1299:A:N6	1:0:1302:C:N3	2.61	0.49
1:0:1313:U:O2'	1:0:1314:A:OP2	2.28	0.49
1:0:1442:C:C2'	1:0:1443:G:OP1	2.61	0.49
1:0:1466:C:O2'	1:0:1467:U:H5'	2.12	0.49
1:0:1476:G:H3'	1:0:1477:C:H6	1.78	0.49
1:0:1922:U:O2'	1:0:2571:G:O4'	2.30	0.49
1:0:2059:U:OP2	1:0:2217:G:C2	2.65	0.49
1:0:2082:C:N4	1:0:2174:G:N1	2.61	0.49
1:0:2123:G:O2'	1:0:2124:C:H5'	2.12	0.49
1:0:2475:C:H2'	1:0:2476:A:O4'	2.12	0.49
1:0:2602:G:O2'	1:0:2603:G:H5'	2.12	0.49
1:0:2652:G:N3	1:0:2653:A:C8	2.81	0.49
1:0:2721:A:H2'	1:0:2722:C:H5'	1.95	0.49
1:0:2756:A:O2'	1:0:2757:G:O5'	2.30	0.49
1:0:227:G:C6	1:0:228:A:C6	3.01	0.49
1:0:233:A:O2'	1:0:234:C:H5'	2.13	0.49
1:0:721:C:H2'	1:0:722:C:C6	2.48	0.49
1:0:830:C:HO2'	1:0:831:G:H5'	1.78	0.49
1:0:853:C:C2	1:0:950:G:N1	2.81	0.49
1:0:953:G:C5	1:0:954:U:C4	3.01	0.49
1:0:1089:C:H5''	1:0:1090:C:OP1	2.13	0.49
1:0:1205:G:O2'	1:0:1206:G:H5'	2.12	0.49
1:0:1631:C:H3'	1:0:1631:C:C6	2.45	0.49
1:0:1648:C:H5'	1:0:1648:C:C6	2.36	0.49
1:0:1698:C:H1'	1:0:1754:G:H5''	1.95	0.49
1:0:1979:C:C2'	1:0:1980:A:O5'	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2354:G:H8	1:0:2354:G:O5'	1.96	0.49
1:0:2434:G:C5	1:0:2435:C:N4	2.81	0.49
1:0:2435:C:H2'	1:0:2436:U:C6	2.48	0.49
1:0:2781:G:H2'	1:0:2782:G:O4'	2.12	0.49
1:0:2824:C:H4'	1:0:2825:A:C5'	2.42	0.49
1:0:2867:G:OP2	1:0:2867:G:H8	1.95	0.49
1:0:60:A:C6	1:0:61:U:C4	3.01	0.49
1:0:143:A:H2'	1:0:144:U:O4'	2.13	0.49
1:0:169:C:C3'	1:0:170:U:H5'	2.43	0.49
1:0:172:A:C2	1:0:178:C:C2	3.01	0.49
1:0:545:C:H2'	1:0:546:A:C8	2.48	0.49
1:0:709:A:H2'	1:0:710:C:H6	1.78	0.49
1:0:715:U:O2'	1:0:716:U:H5'	2.13	0.49
1:0:831:G:H2'	1:0:832:A:H5''	1.95	0.49
1:0:1077:U:N3	1:0:1080:A:OP2	2.43	0.49
1:0:1177:U:C4	1:0:1196:G:C6	3.00	0.49
1:0:1201:G:N2	1:0:1202:U:H5	2.10	0.49
1:0:1221:C:C2	1:0:1222:G:C8	3.01	0.49
1:0:1301:U:C2	1:0:1340:C:C2	3.00	0.49
1:0:1337:G:C1'	1:0:1632:A:H62	2.25	0.49
1:0:1488:G:HO2'	1:0:1489:C:P	2.36	0.49
1:0:1715:A:N3	1:0:1717:A:O4'	2.45	0.49
1:0:11:G:C8	1:0:11:G:O5'	2.66	0.48
1:0:128:C:H2'	1:0:129:A:H5''	1.95	0.48
1:0:233:A:H2'	1:0:234:C:H6	1.77	0.48
1:0:237:G:H1'	1:0:632:A:H8	1.77	0.48
1:0:761:G:C5	1:0:763:A:C5	3.01	0.48
1:0:764:A:N3	1:0:802:A:C2	2.80	0.48
1:0:790:A:N3	1:0:790:A:C2'	2.75	0.48
1:0:931:G:C2'	1:0:932:G:H5'	2.43	0.48
1:0:1004:A:C8	1:0:1005:U:H5	2.31	0.48
1:0:1244:U:H2'	1:0:1245:G:H8	1.77	0.48
1:0:1401:G:C2'	1:0:1402:G:H5'	2.42	0.48
1:0:1664:G:C5'	1:0:1665:C:OP1	2.60	0.48
1:0:1816:G:O2'	1:0:1817:U:H5'	2.12	0.48
1:0:1821:A:H3'	1:0:1822:C:C6	2.48	0.48
1:0:1824:C:O5'	1:0:1824:C:H6	1.96	0.48
1:0:2038:C:H42	1:0:2479:U:H1'	1.76	0.48
1:0:2046:C:O2	1:0:2430:A:C2	2.66	0.48
1:0:2134:U:O5'	1:0:2134:U:H6	1.96	0.48
1:0:2402:U:C4'	1:0:2404:A:N7	2.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2550:C:N4	1:0:2553:G:C8	2.81	0.48
1:0:2565:C:O2	1:0:2566:A:O4'	2.30	0.48
1:0:2726:U:O4	1:0:2736:U:C5	2.66	0.48
1:0:63:A:O2'	1:0:64:C:H5'	2.12	0.48
1:0:65:C:H2'	1:0:66:U:C5'	2.43	0.48
1:0:152:G:H2'	1:0:153:A:O4'	2.12	0.48
1:0:590:C:C2	1:0:591:G:C8	3.01	0.48
1:0:755:C:O2'	1:0:756:C:H5'	2.13	0.48
1:0:768:U:C6	1:0:769:C:C5	3.01	0.48
1:0:839:U:C2	1:0:841:G:H1'	2.48	0.48
1:0:839:U:N3	1:0:841:G:H1'	2.27	0.48
1:0:883:A:C2	1:0:884:C:C6	3.01	0.48
1:0:994:A:N7	1:0:995:A:C4	2.81	0.48
1:0:1302:C:H2'	1:0:1303:U:C6	2.48	0.48
1:0:1416:A:H2'	1:0:1417:C:C6	2.47	0.48
1:0:1439:G:N2	1:0:1440:G:N2	2.60	0.48
1:0:1601:U:O2'	1:0:1602:G:C4	2.60	0.48
1:0:1621:C:C4'	1:0:1626:A:N7	2.76	0.48
1:0:2095:G:OP2	1:0:2103:G:H4'	2.13	0.48
1:0:2200:G:H2'	1:0:2201:G:C8	2.48	0.48
1:0:2235:G:N2	1:0:2254:C:N4	2.61	0.48
1:0:2559:U:C2'	1:0:2560:G:C5'	2.73	0.48
1:0:2734:U:O2'	1:0:2736:U:OP1	2.29	0.48
1:0:7:G:C4	1:0:8:A:C8	3.02	0.48
1:0:176:A:C6	1:0:2413:A:C6	3.01	0.48
1:0:471:A:C2	1:0:481:A:C5	3.01	0.48
1:0:551:A:N1	1:0:562:G:C4	2.82	0.48
1:0:590:C:C2	1:0:591:G:N7	2.82	0.48
1:0:768:U:C5	1:0:769:C:C5	3.02	0.48
1:0:838:A:C2	1:0:839:U:C2	3.01	0.48
1:0:849:G:C5	1:0:850:C:C4	3.01	0.48
1:0:1032:A:C8	1:0:1032:A:H3'	2.48	0.48
1:0:1174:G:C4	1:0:1175:A:N7	2.81	0.48
1:0:1651:U:H5''	1:0:1652:G:OP2	2.13	0.48
1:0:1904:G:H2'	1:0:1905:G:H8	1.77	0.48
1:0:1965:U:C4	1:0:1966:C:H5	2.30	0.48
1:0:2307:A:C6	1:0:2308:A:N6	2.81	0.48
1:0:2363:G:H3'	1:0:2365:U:OP1	2.13	0.48
1:0:2781:G:H3'	1:0:2782:G:H8	1.78	0.48
1:0:2799:C:H2'	1:0:2800:C:O4'	2.14	0.48
1:0:2857:C:C6	1:0:2857:C:H5'	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2859:U:O2	1:0:2860:C:O4'	2.32	0.48
1:0:229:G:C2	1:0:230:C:C6	3.02	0.48
1:0:350:U:H6	1:0:350:U:O5'	1.96	0.48
1:0:357:A:N3	1:0:358:C:H4'	2.27	0.48
1:0:644:A:C2'	1:0:645:G:H5'	2.43	0.48
1:0:644:A:N3	1:0:2382:C:H4'	2.28	0.48
1:0:804:C:O2'	1:0:805:G:P	2.72	0.48
1:0:807:A:C2	1:0:808:C:N1	2.81	0.48
1:0:865:A:H2'	1:0:866:U:C6	2.48	0.48
1:0:1223:G:N1	1:0:1250:A:N7	2.61	0.48
1:0:1354:A:O2'	1:0:1355:A:OP1	2.23	0.48
1:0:1391:A:O2'	1:0:1392:U:O5'	2.31	0.48
1:0:1391:A:O2'	1:0:1392:U:OP1	2.31	0.48
1:0:1632:A:O2'	1:0:1633:C:OP2	2.30	0.48
1:0:1980:A:C2	1:0:1981:A:C4	3.01	0.48
1:0:1981:A:C5	1:0:1982:C:C5	3.02	0.48
1:0:1994:U:H2'	1:0:1995:G:H5'	1.95	0.48
1:0:2039:G:C8	1:0:2556:A:C6	3.02	0.48
1:0:2236:U:H2'	1:0:2237:C:O4'	2.12	0.48
1:0:2528:G:C2	1:0:2529:G:C8	3.00	0.48
1:0:2543:A:C8	1:0:2627:G:H5'	2.48	0.48
1:0:2571:G:N2	1:0:2582:G:C6	2.81	0.48
1:0:2734:U:H2'	1:0:2736:U:OP1	2.13	0.48
1:0:2811:G:C5	1:0:2858:A:N1	2.82	0.48
1:0:2824:C:H1'	1:0:2843:A:N3	2.29	0.48
1:0:203:G:O2'	1:0:204:A:H5'	2.13	0.48
1:0:312:G:O2'	1:0:313:U:O5'	2.28	0.48
1:0:473:C:C5	1:0:474:G:N7	2.82	0.48
1:0:580:A:H1'	1:0:582:G:C8	2.48	0.48
1:0:726:G:H2'	1:0:727:U:H6	1.78	0.48
1:0:746:G:C8	1:0:774:A:C6	3.00	0.48
1:0:841:G:N2	1:0:2226:A:H5'	2.29	0.48
1:0:852:U:O2'	1:0:1205:G:H1'	2.14	0.48
1:0:1007:A:N6	1:0:1171:A:N1	2.61	0.48
1:0:1442:C:N4	1:0:1585:A:C8	2.82	0.48
1:0:1541:G:H22	1:0:1561:A:H61	1.62	0.48
1:0:1810:U:C2'	1:0:1811:A:OP2	2.62	0.48
1:0:1975:G:C5	1:0:1980:A:C6	3.01	0.48
1:0:2047:C:H6	1:0:2047:C:C5'	2.23	0.48
1:0:2339:A:H2'	1:0:2340:C:O5'	2.13	0.48
1:0:2427:A:HO2'	1:0:2428:U:P	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2627:G:H2'	1:0:2628:C:O4'	2.12	0.48
1:0:2655:C:H2'	1:0:2656:G:H8	1.78	0.48
1:0:2671:C:H2'	1:0:2672:U:C6	2.48	0.48
1:0:2692:A:H5'	1:0:2693:U:P	2.54	0.48
1:0:39:C:H2'	1:0:40:U:C6	2.49	0.48
1:0:435:A:C6	1:0:436:A:C6	3.02	0.48
1:0:500:G:H8	1:0:500:G:O5'	1.96	0.48
1:0:550:C:N4	1:0:551:A:H62	2.12	0.48
1:0:554:U:O2	1:0:554:U:H2'	2.13	0.48
1:0:676:G:C6	1:0:677:G:C5	3.01	0.48
1:0:767:G:O2'	1:0:768:U:H5'	2.14	0.48
1:0:787:A:C6	1:0:788:G:N7	2.81	0.48
1:0:822:G:C2'	1:0:823:U:H5'	2.44	0.48
1:0:846:A:N7	1:0:847:C:C4	2.81	0.48
1:0:879:A:H61	1:0:926:C:H42	1.61	0.48
1:0:918:A:C3'	1:0:919:U:H5''	2.42	0.48
1:0:984:A:H2	1:0:1200:G:H1	1.62	0.48
1:0:1186:G:H2'	1:0:1187:A:O4'	2.13	0.48
1:0:1195:U:O2'	1:0:1196:G:H5'	2.12	0.48
1:0:1618:U:C6	1:0:1618:U:C3'	2.97	0.48
1:0:1683:G:C2'	1:0:1684:G:H5'	2.43	0.48
1:0:1886:G:N3	1:0:1887:G:C8	2.82	0.48
1:0:1904:G:H2'	1:0:1905:G:C8	2.48	0.48
1:0:2225:G:C4	1:0:2405:A:N3	2.81	0.48
1:0:2617:G:C6	1:0:2755:A:C6	3.01	0.48
1:0:49:U:C2'	1:0:50:G:OP1	2.62	0.48
1:0:134:G:H2'	1:0:135:U:C5'	2.41	0.48
1:0:367:G:C3'	1:0:368:A:H5''	2.43	0.48
1:0:432:C:O2'	1:0:433:G:H5'	2.13	0.48
1:0:682:G:N3	1:0:682:G:C2'	2.75	0.48
1:0:780:U:H2'	1:0:781:G:H8	1.79	0.48
1:0:788:G:HO2'	1:0:807:A:H8	1.59	0.48
1:0:790:A:C2	1:0:791:G:C8	3.01	0.48
1:0:1066:G:H3'	1:0:1067:G:H4'	1.96	0.48
1:0:1066:G:H2'	1:0:1097:A:N1	2.29	0.48
1:0:1240:G:O2'	1:0:1241:G:H5'	2.13	0.48
1:0:1309:G:N2	1:0:1662:G:C4	2.82	0.48
1:0:1417:C:O2'	1:0:1418:C:H5'	2.14	0.48
1:0:1440:G:C3'	1:0:1441:A:H5''	2.43	0.48
1:0:1564:U:H2'	1:0:1565:G:H8	1.78	0.48
1:0:1581:C:H2'	1:0:1582:A:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1657:A:C2'	1:0:1658:A:H5'	2.44	0.48
1:0:2024:U:O4	1:0:2025:A:N6	2.47	0.48
1:0:2259:G:O2'	1:0:2260:C:H5'	2.12	0.48
1:0:2270:U:O4	1:0:2271:C:N4	2.46	0.48
1:0:2280:A:H2'	1:0:2281:C:H6	1.76	0.48
1:0:2426:G:O2'	1:0:2427:A:OP2	2.30	0.48
1:0:2437:G:O6	1:0:2469:G:H2'	2.13	0.48
1:0:2513:A:C6	1:0:2514:G:C8	3.01	0.48
1:0:486:U:O2'	1:0:515:A:N3	2.42	0.48
1:0:790:A:C2	1:0:791:G:N9	2.81	0.48
1:0:859:U:O2'	1:0:860:U:C2	2.62	0.48
1:0:873:U:C2	1:0:2246:A:O3'	2.67	0.48
1:0:874:A:C2	1:0:875:G:C1'	2.96	0.48
1:0:885:A:C2	1:0:918:A:C4	3.02	0.48
1:0:941:U:O2'	1:0:942:U:H5'	2.14	0.48
1:0:973:U:H2'	1:0:974:U:C6	2.40	0.48
1:0:982:C:OP2	1:0:985:G:C2	2.67	0.48
1:0:1007:A:O2'	1:0:1008:G:H5'	2.13	0.48
1:0:1337:G:C6	1:0:1341:G:C6	3.02	0.48
1:0:1358:C:H6	1:0:1358:C:P	2.36	0.48
1:0:1439:G:O3'	1:0:1440:G:O4'	2.31	0.48
1:0:1672:A:C6	1:0:1673:C:C2	3.02	0.48
1:0:1745:C:C5	1:0:1746:A:N7	2.82	0.48
1:0:1834:G:C2	1:0:1835:C:C2	3.01	0.48
1:0:2321:C:O2'	1:0:2353:G:H5''	2.13	0.48
1:0:2762:G:N2	1:0:2763:U:C1'	2.76	0.48
1:0:14:A:C2	1:0:536:A:C2	3.02	0.48
1:0:87:G:H2'	1:0:87:G:N3	2.29	0.48
1:0:202:A:H2'	1:0:203:G:O4'	2.14	0.48
1:0:352:G:O2'	1:0:353:G:H5'	2.13	0.48
1:0:428:A:N1	1:0:2388:G:C6	2.82	0.48
1:0:525:A:C8	1:0:526:C:C6	3.02	0.48
1:0:618:A:H2'	1:0:619:A:O4'	2.13	0.48
1:0:651:C:C2'	1:0:652:C:H5''	2.43	0.48
1:0:760:U:C2'	1:0:761:G:OP2	2.61	0.48
1:0:929:A:C5	1:0:930:A:N3	2.82	0.48
1:0:1200:G:H2'	1:0:1201:G:O4'	2.14	0.48
1:0:1380:C:H2'	1:0:1381:G:C5'	2.44	0.48
1:0:1548:U:C4	1:0:1549:C:N4	2.82	0.48
1:0:1836:C:H2'	1:0:1837:G:O4'	2.14	0.48
1:0:2059:U:P	1:0:2217:G:H22	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2225:G:C4	1:0:2405:A:C2	3.02	0.48
1:0:2318:U:H2'	1:0:2319:G:H8	1.78	0.48
1:0:2782:G:C5'	1:0:2783:U:H5''	2.44	0.48
1:0:67:G:N2	1:0:73:A:C4	2.82	0.48
1:0:184:A:N7	1:0:185:C:C4	2.82	0.48
1:0:224:G:C4'	1:0:399:G:C6	2.96	0.48
1:0:1454:U:O2'	1:0:1455:C:H5'	2.13	0.48
1:0:1543:G:H2'	1:0:1544:A:H5'	1.95	0.48
1:0:1629:G:C2	1:0:1633:C:C2	3.01	0.48
1:0:1631:C:C6	1:0:1631:C:C3'	2.97	0.48
1:0:1657:A:H2'	1:0:1658:A:H5'	1.96	0.48
1:0:2016:A:H2'	1:0:2018:G:OP2	2.13	0.48
1:0:2070:G:O5'	1:0:2070:G:H8	1.97	0.48
1:0:2082:C:N4	1:0:2174:G:H1	2.12	0.48
1:0:2504:G:C2	1:0:2518:C:C2	3.02	0.48
1:0:2544:A:C5	1:0:2545:A:C2	3.02	0.48
1:0:2636:A:H62	1:0:2643:G:H21	1.61	0.48
1:0:2666:U:C5	1:0:2667:C:C4	3.01	0.48
1:0:33:C:O2	1:0:34:U:C6	2.66	0.47
1:0:537:C:O2'	1:0:538:A:C5	2.66	0.47
1:0:586:G:N2	1:0:587:A:C2	2.82	0.47
1:0:700:C:O2	1:0:801:A:O5'	2.32	0.47
1:0:790:A:C2	1:0:791:G:C4	3.02	0.47
1:0:1060:C:O2	1:0:1060:C:H2'	2.14	0.47
1:0:1234:C:H2'	1:0:1235:C:H6	1.77	0.47
1:0:1353:A:N3	1:0:1618:U:O4	2.47	0.47
1:0:1354:A:C2	1:0:1411:C:H4'	2.49	0.47
1:0:1427:G:OP2	1:0:1428:G:C6	2.67	0.47
1:0:1427:G:H2'	1:0:1428:G:O4'	2.14	0.47
1:0:1505:U:O2	1:0:1505:U:H2'	2.12	0.47
1:0:1514:C:C4'	1:0:1593:C:H5'	2.44	0.47
1:0:1542:G:N2	1:0:1561:A:H62	2.12	0.47
1:0:1714:A:N6	1:0:1715:A:C6	2.82	0.47
1:0:1774:A:C2	1:0:2566:A:N9	2.82	0.47
1:0:2092:U:O5'	1:0:2092:U:H6	1.97	0.47
1:0:2276:C:C2'	1:0:2277:A:H5'	2.44	0.47
1:0:2728:A:C8	1:0:2729:A:C8	3.02	0.47
1:0:2817:A:N1	1:0:2851:G:C5	2.82	0.47
1:0:145:C:N3	1:0:153:A:C2	2.82	0.47
1:0:192:G:H1'	1:0:193:A:C4'	2.32	0.47
1:0:357:A:H2'	1:0:357:A:N3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:700:C:C5	1:0:701:U:C4	3.02	0.47
1:0:731:A:H5'	1:0:732:G:OP2	2.14	0.47
1:0:941:U:O2	1:0:942:U:N1	2.47	0.47
1:0:1011:A:C8	1:0:1165:G:N2	2.82	0.47
1:0:1214:C:O2	1:0:1259:A:C2	2.67	0.47
1:0:1631:C:C5	1:0:1633:C:C2	3.01	0.47
1:0:2071:G:H2'	1:0:2072:C:H6	1.79	0.47
1:0:2434:G:C6	1:0:2435:C:N4	2.82	0.47
1:0:2494:C:H1'	1:0:2549:G:N2	2.29	0.47
1:0:2608:A:O2'	1:0:2609:G:C5'	2.61	0.47
1:0:2668:U:O2	1:0:2693:U:O4'	2.32	0.47
1:0:2729:A:N6	1:0:2730:A:N6	2.63	0.47
1:0:328:A:H2'	1:0:329:C:H6	1.79	0.47
1:0:548:G:H2'	1:0:549:G:H5'	1.96	0.47
1:0:778:G:H2'	1:0:779:U:C6	2.41	0.47
1:0:832:A:C2'	1:0:833:A:H8	2.12	0.47
1:0:846:A:N6	1:0:847:C:N4	2.62	0.47
1:0:987:G:H5'	1:0:1167:A:N6	2.30	0.47
1:0:1004:A:N7	1:0:1005:U:H5	2.12	0.47
1:0:1226:A:C1'	1:0:1250:A:H2	2.26	0.47
1:0:1260:A:C6	1:0:1262:U:C1'	2.95	0.47
1:0:1474:A:O2'	1:0:1475:U:C5'	2.60	0.47
1:0:1779:C:O2	1:0:1779:C:H2'	2.14	0.47
1:0:1847:G:O2'	1:0:1848:U:H5'	2.13	0.47
1:0:1937:G:OP2	1:0:1937:G:H8	1.97	0.47
1:0:2014:A:C6	1:0:2477:C:H1'	2.49	0.47
1:0:2410:U:P	1:0:2411:A:OP2	2.72	0.47
1:0:2781:G:C3'	1:0:2782:G:H8	2.28	0.47
1:0:2794:G:H3'	1:0:2796:A:H62	1.79	0.47
1:0:121:G:H2'	1:0:122:G:H5'	1.96	0.47
1:0:192:G:H4'	1:0:193:A:O5'	2.15	0.47
1:0:460:U:H3	1:0:591:G:N2	2.13	0.47
1:0:525:A:C2'	1:0:526:C:H5'	2.45	0.47
1:0:571:U:C5	1:0:2019:C:O4'	2.66	0.47
1:0:584:A:O2'	1:0:585:U:H5'	2.14	0.47
1:0:621:U:H2'	1:0:622:U:C6	2.43	0.47
1:0:758:G:N2	1:0:766:A:C6	2.82	0.47
1:0:764:A:C2	1:0:802:A:N3	2.81	0.47
1:0:836:G:H8	1:0:836:G:O5'	1.97	0.47
1:0:984:A:N3	1:0:984:A:H2'	2.29	0.47
1:0:1006:C:H5'	1:0:1007:A:OP1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1169:C:H2'	1:0:1170:U:H5'	1.95	0.47
1:0:1261:G:C2'	1:0:1262:U:OP1	2.62	0.47
1:0:1423:A:H8	1:0:1423:A:O5'	1.98	0.47
1:0:1447:U:H1'	1:0:1577:G:N2	2.30	0.47
1:0:1469:U:OP2	1:0:1471:G:OP2	2.32	0.47
1:0:1770:U:O2	1:0:1774:A:C5	2.68	0.47
1:0:2044:G:O2'	1:0:2045:A:O5'	2.31	0.47
1:0:2161:C:O2'	1:0:2162:C:P	2.72	0.47
1:0:2234:G:C2'	1:0:2235:G:H5'	2.44	0.47
1:0:2261:G:C4'	1:0:2262:C:OP2	2.57	0.47
1:0:2529:G:C6	1:0:2530:C:C4	3.03	0.47
1:0:2557:G:N3	1:0:2558:C:C5	2.83	0.47
1:0:2614:A:C2	1:0:2615:U:H1'	2.50	0.47
1:0:2838:U:H2'	1:0:2839:G:C8	2.45	0.47
1:0:105:G:C2'	1:0:106:G:C5'	2.88	0.47
1:0:668:A:O2'	1:0:669:G:O4'	2.27	0.47
1:0:765:C:O2	1:0:766:A:N7	2.47	0.47
1:0:765:C:H2'	1:0:766:A:OP2	2.15	0.47
1:0:819:C:N3	1:0:820:U:C5	2.82	0.47
1:0:1209:G:O2'	1:0:1210:C:H5'	2.14	0.47
1:0:1353:A:O2'	1:0:1354:A:OP2	2.30	0.47
1:0:1498:G:O2'	1:0:1499:A:H5'	2.14	0.47
1:0:1500:U:O2'	1:0:1501:C:H5'	2.14	0.47
1:0:1720:G:O2'	1:0:1721:G:H5'	2.15	0.47
1:0:1830:C:H4'	1:0:1831:G:H8	1.80	0.47
1:0:1939:U:H1'	1:0:2531:U:OP1	2.15	0.47
1:0:2007:G:C2	1:0:2023:C:C2	3.02	0.47
1:0:2225:G:C8	1:0:2405:A:C2	3.02	0.47
1:0:2248:A:C6	1:0:2249:U:C4	3.03	0.47
1:0:2486:C:C2	1:0:2562:G:C2	3.03	0.47
1:0:2616:U:H5	1:0:2617:G:C5	2.32	0.47
1:0:2684:A:C5	1:0:2685:A:C8	3.02	0.47
1:0:192:G:O2'	1:0:193:A:H5''	2.14	0.47
1:0:309:G:N2	1:0:352:G:C6	2.82	0.47
1:0:647:G:O2'	1:0:649:G:H4'	2.14	0.47
1:0:667:U:H2'	1:0:668:A:O5'	2.15	0.47
1:0:677:G:H2'	1:0:678:G:H8	1.78	0.47
1:0:746:G:N7	1:0:774:A:C5	2.83	0.47
1:0:831:G:O2'	1:0:832:A:H5''	2.14	0.47
1:0:834:A:C8	1:0:957:G:C8	3.03	0.47
1:0:846:A:C5	1:0:847:C:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:959:C:H2'	1:0:960:U:H6	1.76	0.47
1:0:976:C:H5'	1:0:2252:A:C1'	2.43	0.47
1:0:992:A:N3	1:0:2020:G:H1'	2.30	0.47
1:0:1301:U:HO2'	1:0:1664:G:H22	1.61	0.47
1:0:1447:U:H1'	1:0:1577:G:C2	2.50	0.47
1:0:1631:C:O2'	1:0:1632:A:OP1	2.30	0.47
1:0:2096:U:H5	1:0:2104:G:O3'	1.97	0.47
1:0:2301:A:C2	1:0:2302:G:H1'	2.50	0.47
1:0:2441:U:H2'	1:0:2442:C:O4'	2.15	0.47
1:0:2496:C:C5	1:0:2521:A:C5	3.03	0.47
1:0:2565:C:H2'	1:0:2566:A:O5'	2.13	0.47
1:0:2620:G:C2	1:0:2621:G:C8	3.03	0.47
1:0:2686:C:H2'	1:0:2687:G:H8	1.80	0.47
1:0:2870:C:H2'	1:0:2871:U:C6	2.50	0.47
1:0:68:C:O2	1:0:69:G:C8	2.68	0.47
1:0:84:G:O2'	1:0:85:C:H5'	2.14	0.47
1:0:122:G:N2	1:0:124:A:O3'	2.48	0.47
1:0:168:A:O2'	1:0:169:C:O4'	2.31	0.47
1:0:198:A:C1'	1:0:210:A:H1'	2.44	0.47
1:0:219:G:HO2'	1:0:220:U:P	2.35	0.47
1:0:300:C:H2'	1:0:301:C:C6	2.48	0.47
1:0:358:C:O2'	1:0:359:G:H8	1.98	0.47
1:0:474:G:N2	1:0:477:A:OP2	2.48	0.47
1:0:498:C:C6	1:0:499:G:N7	2.83	0.47
1:0:539:A:C6	1:0:2025:A:C2	3.02	0.47
1:0:741:G:O2'	1:0:742:G:OP1	2.32	0.47
1:0:825:C:N3	1:0:826:U:C5	2.83	0.47
1:0:831:G:H1'	1:0:1204:G:N2	2.30	0.47
1:0:836:G:O2'	1:0:837:U:H5'	2.13	0.47
1:0:843:G:C4	1:0:2427:A:C6	3.03	0.47
1:0:848:A:C6	1:0:849:G:C5	3.03	0.47
1:0:922:A:C2	1:0:923:A:C4	3.03	0.47
1:0:940:G:C8	1:0:941:U:O4'	2.68	0.47
1:0:964:A:H2'	1:0:965:G:H8	1.80	0.47
1:0:1005:U:H5'	1:0:1005:U:H6	1.80	0.47
1:0:1030:U:O2	1:0:1155:G:N2	2.47	0.47
1:0:1299:A:C5	1:0:1302:C:C4	3.03	0.47
1:0:1411:C:O2'	1:0:1412:C:H5'	2.14	0.47
1:0:1620:C:O2'	1:0:1621:C:H5'	2.14	0.47
1:0:1658:A:N6	1:0:1659:G:C2	2.83	0.47
1:0:1810:U:O2'	1:0:1811:A:H8	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1933:G:C8	1:0:1934:U:C5	3.02	0.47
1:0:1965:U:C4	1:0:1966:C:C5	3.03	0.47
1:0:2021:G:C6	1:0:2022:C:C4	3.02	0.47
1:0:2026:C:C6	1:0:2757:G:H1'	2.49	0.47
1:0:2174:G:O2'	1:0:2175:A:H5'	2.15	0.47
1:0:2194:A:C3'	1:0:2195:C:H5''	2.44	0.47
1:0:2222:U:O2	1:0:2223:U:C6	2.67	0.47
1:0:2307:A:C6	1:0:2308:A:C6	3.01	0.47
1:0:2476:A:O2'	1:0:2477:C:C6	2.64	0.47
1:0:2560:G:H2'	1:0:2561:G:OP2	2.13	0.47
1:0:2695:C:H2'	1:0:2696:A:O4'	2.14	0.47
1:0:2701:A:O2'	1:0:2702:G:H5'	2.14	0.47
1:0:2756:A:H3'	1:0:2756:A:C8	2.50	0.47
1:0:2794:G:C8	1:0:2796:A:N6	2.83	0.47
1:0:2839:G:C4	1:0:2840:U:C5	3.03	0.47
1:0:6:A:C2	1:0:7:G:C4	3.02	0.47
1:0:222:G:H2'	1:0:223:C:H6	1.80	0.47
1:0:507:A:H2'	1:0:508:G:O4'	2.14	0.47
1:0:575:U:H4'	1:0:822:G:OP2	2.15	0.47
1:0:588:G:C2	1:0:1275:A:C5	3.02	0.47
1:0:613:A:C6	1:0:636:G:C6	3.02	0.47
1:0:939:C:N3	1:0:940:G:O6	2.47	0.47
1:0:968:C:C4	1:0:2438:A:OP1	2.68	0.47
1:0:1216:G:C6	1:0:1217:U:C4	3.03	0.47
1:0:1217:U:H2'	1:0:1218:C:C6	2.50	0.47
1:0:1223:G:N1	1:0:1250:A:C5	2.83	0.47
1:0:1228:G:C6	1:0:1229:C:N3	2.82	0.47
1:0:1330:G:H2'	1:0:1331:G:O5'	2.15	0.47
1:0:1339:U:C4	1:0:1340:C:C5	3.03	0.47
1:0:1438:G:H2'	1:0:1439:G:O4'	2.14	0.47
1:0:1469:U:H5''	1:0:1470:G:C8	2.50	0.47
1:0:1627:C:C2	1:0:1628:C:C5	3.03	0.47
1:0:1800:A:H1'	1:0:1802:A:N1	2.30	0.47
1:0:1919:A:C2	1:0:1928:G:C8	3.03	0.47
1:0:1949:A:N3	1:0:2572:U:O4'	2.48	0.47
1:0:2091:C:H3'	1:0:2092:U:H6	1.79	0.47
1:0:2265:A:H2'	1:0:2266:A:OP2	2.14	0.47
1:0:2307:A:N6	1:0:2308:A:N6	2.63	0.47
1:0:2359:U:O5'	1:0:2359:U:H6	1.96	0.47
1:0:2476:A:O2'	1:0:2477:C:C5	2.63	0.47
1:0:2797:G:H2'	1:0:2798:A:H5''	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:539:A:N3	1:0:540:G:C6	2.83	0.47
1:0:600:G:C6	1:0:602:C:C4	3.03	0.47
1:0:697:G:N1	1:0:788:G:C4	2.83	0.47
1:0:759:C:C5	1:0:2591:C:O5'	2.68	0.47
1:0:1067:G:O6	1:0:1112:U:P	2.73	0.47
1:0:1772:C:O2'	1:0:1773:C:H5'	2.14	0.47
1:0:1825:C:C4	1:0:1826:U:H5	2.33	0.47
1:0:1895:A:H3'	1:0:1896:A:H8	1.80	0.47
1:0:2074:U:C4	1:0:2075:U:H5	2.33	0.47
1:0:2104:G:C2'	1:0:2105:U:H5'	2.45	0.47
1:0:2198:U:H3'	1:0:2199:C:H5''	1.97	0.47
1:0:2204:A:H4'	1:0:2205:C:C6	2.50	0.47
1:0:2216:G:O5'	1:0:2216:G:H8	1.98	0.47
1:0:2531:U:C6	1:0:2533:U:OP2	2.68	0.47
1:0:2642:G:H2'	1:0:2643:G:O4'	2.15	0.47
1:0:2696:A:H2'	1:0:2697:G:H8	1.80	0.47
1:0:2713:A:C4	1:0:2714:A:C8	3.02	0.47
1:0:2802:C:H2'	1:0:2803:C:H6	1.79	0.47
1:0:188:G:N2	1:0:189:A:C4	2.83	0.47
1:0:611:C:H2'	1:0:612:G:H5'	1.96	0.47
1:0:677:G:O3'	1:0:952:A:OP1	2.32	0.47
1:0:780:U:H2'	1:0:781:G:C8	2.50	0.47
1:0:810:U:H3'	1:0:810:U:H6	1.80	0.47
1:0:1077:U:O2	1:0:1079:G:C8	2.68	0.47
1:0:1172:U:O2	1:0:1173:G:C8	2.68	0.47
1:0:1328:C:N4	1:0:1329:U:O4	2.48	0.47
1:0:1337:G:H1'	1:0:1632:A:H61	1.74	0.47
1:0:1530:U:O5'	1:0:1530:U:H6	1.97	0.47
1:0:1685:A:N1	1:0:1976:U:C6	2.83	0.47
1:0:1939:U:O2	1:0:1939:U:H2'	2.15	0.47
1:0:2032:G:N2	1:0:2599:U:N3	2.63	0.47
1:0:2221:G:C5	1:0:2222:U:C5	3.02	0.47
1:0:2221:G:C6	1:0:2222:U:C4	3.03	0.47
1:0:2431:C:O2'	1:0:2432:A:C5'	2.60	0.47
1:0:2516:U:C2	1:0:2517:C:C5	3.03	0.47
1:0:2543:A:OP1	1:0:2627:G:H4'	2.15	0.47
1:0:2762:G:C2	1:0:2763:U:N1	2.83	0.47
1:0:15:G:C5	1:0:16:G:N7	2.84	0.46
1:0:53:G:C6	1:0:115:G:N2	2.83	0.46
1:0:110:U:C5	1:0:111:G:C4	3.03	0.46
1:0:195:A:C8	1:0:196:A:N7	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:332:C:O2'	1:0:333:A:OP1	2.25	0.46
1:0:353:G:H2'	1:0:354:C:O4'	2.15	0.46
1:0:353:G:O2'	1:0:354:C:H5'	2.15	0.46
1:0:441:A:C2'	1:0:442:A:C5'	2.93	0.46
1:0:482:A:H2'	1:0:483:A:H5'	1.95	0.46
1:0:573:C:H3'	1:0:573:C:H6	1.80	0.46
1:0:682:G:C4	1:0:814:G:C6	3.03	0.46
1:0:940:G:N7	1:0:941:U:O4'	2.48	0.46
1:0:940:G:N7	1:0:941:U:C6	2.82	0.46
1:0:1629:G:C4	1:0:1633:C:C4	3.03	0.46
1:0:1653:C:H2'	1:0:1654:A:H8	1.79	0.46
1:0:1656:U:H2'	1:0:1657:A:H5''	1.97	0.46
1:0:2006:G:N2	1:0:2024:U:C2	2.82	0.46
1:0:2048:C:O2'	1:0:2049:C:H5'	2.15	0.46
1:0:2072:C:O2	1:0:2072:C:H2'	2.15	0.46
1:0:2245:A:N3	1:0:2251:U:H5	2.12	0.46
1:0:2324:G:O2'	1:0:2325:A:OP2	2.30	0.46
1:0:2494:C:C2	1:0:2549:G:N1	2.84	0.46
1:0:2616:U:C4	1:0:2617:G:C2	3.03	0.46
1:0:2619:G:C6	1:0:2755:A:C2	3.03	0.46
1:0:2793:G:N3	1:0:2804:G:C2	2.83	0.46
1:0:152:G:O2'	1:0:153:A:H5'	2.15	0.46
1:0:188:G:C2	1:0:189:A:C5	3.03	0.46
1:0:239:A:C2	1:0:443:A:N3	2.84	0.46
1:0:242:A:H2'	1:0:243:G:OP2	2.16	0.46
1:0:304:A:H2'	1:0:305:A:H5''	1.97	0.46
1:0:334:G:C2	1:0:344:G:H1'	2.51	0.46
1:0:441:A:H8	1:0:442:A:C8	2.33	0.46
1:0:651:C:N4	1:0:658:G:H1	2.10	0.46
1:0:698:A:H4'	1:0:700:C:H5	1.80	0.46
1:0:739:G:O2'	1:0:740:A:P	2.72	0.46
1:0:972:C:H5''	1:0:972:C:H6	1.80	0.46
1:0:1032:A:H5'	1:0:1033:G:OP2	2.14	0.46
1:0:1139:A:C5	1:0:1140:A:H2	2.33	0.46
1:0:1202:U:C2'	1:0:1203:A:H8	2.11	0.46
1:0:1299:A:N6	1:0:1302:C:C2	2.82	0.46
1:0:1327:C:O2	1:0:1352:G:N2	2.48	0.46
1:0:1329:U:C2	1:0:1330:G:N7	2.84	0.46
1:0:2225:G:C5	1:0:2405:A:C2	3.04	0.46
1:0:2269:G:H2'	1:0:2270:U:O4'	2.15	0.46
1:0:2597:G:C6	1:0:2598:C:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2636:A:C2'	1:0:2637:C:H5'	2.45	0.46
1:0:2705:A:N3	1:0:2706:U:H2'	2.31	0.46
1:0:2875:C:H2'	1:0:2876:C:C6	2.49	0.46
1:0:24:G:N1	1:0:25:U:C2	2.84	0.46
1:0:88:G:C6	1:0:89:A:C8	3.03	0.46
1:0:107:G:C2	1:0:108:G:H1'	2.50	0.46
1:0:309:G:C2	1:0:350:U:H5	2.32	0.46
1:0:427:C:H4'	1:0:1861:G:H22	1.80	0.46
1:0:478:G:C4	1:0:479:G:C8	3.03	0.46
1:0:498:C:C4	1:0:499:G:C5	3.04	0.46
1:0:577:U:C5'	1:0:956:A:N6	2.78	0.46
1:0:615:C:H1'	1:0:634:G:N2	2.31	0.46
1:0:851:C:H2'	1:0:852:U:H6	1.77	0.46
1:0:1020:A:N6	1:0:1021:A:N1	2.63	0.46
1:0:1033:G:O2'	1:0:1034:U:O5'	2.30	0.46
1:0:1441:A:H2'	1:0:1441:A:N3	2.31	0.46
1:0:1479:G:H21	1:0:1543:G:N2	2.08	0.46
1:0:1515:U:H2'	1:0:1516:A:O4'	2.16	0.46
1:0:1548:U:H2'	1:0:1549:C:H5	1.80	0.46
1:0:1629:G:C6	1:0:1635:G:O6	2.68	0.46
1:0:1631:C:H5	1:0:1633:C:C2	2.33	0.46
1:0:1670:G:P	1:0:2797:G:H22	2.37	0.46
1:0:1683:G:O2'	1:0:1684:G:H5'	2.15	0.46
1:0:2419:C:C2'	1:0:2420:C:OP1	2.62	0.46
1:0:2762:G:O2'	1:0:2763:U:H5'	2.16	0.46
1:0:49:U:H2'	1:0:50:G:OP1	2.15	0.46
1:0:826:U:O2	1:0:827:C:C2	2.69	0.46
1:0:931:G:H2'	1:0:932:G:C5'	2.45	0.46
1:0:1257:U:H2'	1:0:1258:G:C8	2.45	0.46
1:0:1434:U:H2'	1:0:1435:G:H8	1.79	0.46
1:0:1678:G:C6	1:0:1983:G:C6	3.04	0.46
1:0:1689:U:O4	1:0:1690:U:O4	2.33	0.46
1:0:1763:G:H2'	1:0:1764:A:H5'	1.96	0.46
1:0:1938:U:O3'	1:0:1939:U:H6	1.98	0.46
1:0:1978:U:H3	1:0:1979:C:N4	2.12	0.46
1:0:2237:C:C5	1:0:2405:A:H5'	2.51	0.46
1:0:197:G:H1'	1:0:210:A:C2	2.50	0.46
1:0:311:A:C1'	1:0:330:C:H1'	2.46	0.46
1:0:608:G:C6	1:0:673:G:C6	3.04	0.46
1:0:644:A:C3'	1:0:645:G:H5'	2.46	0.46
1:0:808:C:HO2'	1:0:809:C:H5'	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:859:U:H3'	1:0:859:U:H6	1.80	0.46
1:0:946:U:C2	1:0:947:C:C6	3.04	0.46
1:0:1213:U:N3	1:0:1260:A:C2	2.83	0.46
1:0:1496:G:N2	1:0:1528:C:C2	2.84	0.46
1:0:1693:A:O2'	1:0:1694:A:H5'	2.16	0.46
1:0:1727:C:H2'	1:0:1728:A:H8	1.80	0.46
1:0:1761:G:C8	1:0:1762:C:C5	3.03	0.46
1:0:1789:U:H2'	1:0:1790:G:H5'	1.97	0.46
1:0:1917:C:C2'	1:0:1918:G:H5'	2.46	0.46
1:0:2212:U:H2'	1:0:2213:G:C8	2.50	0.46
1:0:2496:C:C2'	1:0:2497:A:O5'	2.64	0.46
1:0:2559:U:C3'	1:0:2560:G:H5'	2.44	0.46
1:0:2667:C:N4	1:0:2699:G:H3'	2.30	0.46
1:0:2773:G:H2'	1:0:2774:U:C6	2.51	0.46
1:0:188:G:N1	1:0:189:A:C5	2.84	0.46
1:0:318:G:C2	1:0:341:A:N6	2.83	0.46
1:0:541:C:H5''	1:0:542:A:C8	2.51	0.46
1:0:639:G:H2'	1:0:640:C:H6	1.78	0.46
1:0:698:A:C2'	1:0:699:G:OP2	2.63	0.46
1:0:715:U:H2'	1:0:716:U:H6	1.81	0.46
1:0:749:C:O5'	1:0:749:C:H6	1.98	0.46
1:0:822:G:H2'	1:0:823:U:H6	1.81	0.46
1:0:956:A:C5	1:0:2427:A:C2	3.03	0.46
1:0:1037:U:H3'	1:0:1037:U:C6	2.50	0.46
1:0:1142:G:C2	1:0:1143:A:C5	3.04	0.46
1:0:1374:G:C2	1:0:1375:C:C6	3.04	0.46
1:0:1683:G:H2'	1:0:1684:G:C5'	2.46	0.46
1:0:1790:G:N3	1:0:1811:A:N7	2.64	0.46
1:0:1920:A:H3'	1:0:1920:A:OP2	2.16	0.46
1:0:1976:U:C2	1:0:1977:C:C6	3.04	0.46
1:0:2016:A:N6	1:0:2019:C:C2	2.83	0.46
1:0:2422:C:N3	1:0:2423:G:N7	2.64	0.46
1:0:2498:U:O4	1:0:2520:A:H2'	2.16	0.46
1:0:2556:A:C2	1:0:2593:A:C2	2.92	0.46
1:0:2559:U:O5'	1:0:2559:U:H6	1.99	0.46
1:0:2619:G:C6	1:0:2755:A:N1	2.84	0.46
1:0:2628:C:C2	1:0:2629:U:C5	3.03	0.46
1:0:600:G:O2'	1:0:601:A:OP1	2.30	0.46
1:0:611:C:H2'	1:0:614:G:H5''	1.98	0.46
1:0:635:C:C2'	1:0:636:G:H5''	2.45	0.46
1:0:1092:U:O5'	1:0:1092:U:H6	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1950:C:C2'	1:0:1951:G:O5'	2.64	0.46
1:0:2178:U:H2'	1:0:2179:C:H6	1.81	0.46
1:0:2474:G:C2'	1:0:2475:C:H5'	2.46	0.46
1:0:2537:C:H2'	1:0:2538:C:O4'	2.15	0.46
1:0:2661:G:O2'	1:0:2662:C:H5'	2.16	0.46
1:0:2665:G:C6	1:0:2666:U:N3	2.83	0.46
1:0:2779:C:O5'	1:0:2779:C:H6	1.99	0.46
1:0:2787:A:N3	1:0:2788:C:C6	2.84	0.46
1:0:2796:A:O2'	1:0:2801:A:N1	2.31	0.46
1:0:2829:A:N1	1:0:2830:U:C2	2.84	0.46
1:0:202:A:O2'	1:0:234:C:H4'	2.15	0.46
1:0:312:G:HO2'	1:0:313:U:P	2.38	0.46
1:0:516:G:O2'	1:0:517:A:P	2.73	0.46
1:0:572:G:C2'	1:0:573:C:H5'	2.45	0.46
1:0:580:A:C8	1:0:584:A:N6	2.84	0.46
1:0:623:G:C5'	1:0:626:A:N6	2.78	0.46
1:0:661:C:O2	1:0:662:G:C8	2.68	0.46
1:0:981:C:C5	1:0:982:C:H5	2.34	0.46
1:0:1161:U:H2'	1:0:1162:A:C8	2.49	0.46
1:0:1171:A:C5	1:0:1172:U:C5	3.04	0.46
1:0:1225:G:O2'	1:0:1250:A:C2	2.68	0.46
1:0:1248:G:N1	1:0:1249:G:N2	2.63	0.46
1:0:1438:G:H2'	1:0:1439:G:C5'	2.34	0.46
1:0:1671:A:C2	1:0:1672:A:C8	3.04	0.46
1:0:1715:A:N3	1:0:1717:A:H1'	2.31	0.46
1:0:1848:U:H2'	1:0:1849:G:O4'	2.15	0.46
1:0:1922:U:H1'	1:0:2571:G:O4'	2.15	0.46
1:0:2093:G:O2'	1:0:2094:C:OP1	2.31	0.46
1:0:2213:G:H2'	1:0:2214:G:O4'	2.16	0.46
1:0:2235:G:O2'	1:0:2236:U:H5'	2.16	0.46
1:0:2240:C:C4	1:0:2259:G:C6	3.04	0.46
1:0:2325:A:C2'	1:0:2326:C:OP1	2.63	0.46
1:0:2473:G:H21	1:0:2474:G:C1'	2.29	0.46
1:0:2656:G:H2'	1:0:2657:G:H8	1.80	0.46
1:0:38:G:C2	1:0:454:G:C2	3.04	0.46
1:0:170:U:C5	1:0:171:G:N7	2.84	0.46
1:0:222:G:C6	1:0:231:G:N2	2.84	0.46
1:0:516:G:C2'	1:0:517:A:OP2	2.64	0.46
1:0:611:C:H6	1:0:611:C:H5''	1.80	0.46
1:0:657:A:C2	1:0:658:G:C4	3.04	0.46
1:0:664:C:C5	1:0:666:U:H4'	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:832:A:C8	1:0:833:A:N7	2.84	0.46
1:0:982:C:C2	1:0:983:G:C8	3.04	0.46
1:0:1145:C:C6	1:0:1147:G:P	3.09	0.46
1:0:1353:A:C4	1:0:1618:U:O4	2.68	0.46
1:0:1369:G:H21	1:0:1370:U:H1'	1.80	0.46
1:0:1443:G:C5	1:0:1584:G:C6	3.04	0.46
1:0:1645:U:O2	1:0:2677:U:C5'	2.64	0.46
1:0:1698:C:O2'	1:0:1753:A:C2'	2.64	0.46
1:0:1787:U:C2	1:0:1788:C:C5	3.03	0.46
1:0:1947:G:C2'	1:0:1950:C:OP2	2.64	0.46
1:0:2240:C:C2'	1:0:2241:U:H5''	2.46	0.46
1:0:2241:U:H5'	1:0:2241:U:H6	1.81	0.46
1:0:2277:A:H1'	1:0:2300:G:N2	2.31	0.46
1:0:2565:C:C2'	1:0:2566:A:O5'	2.64	0.46
1:0:2608:A:N6	1:0:2869:U:C2	2.83	0.46
1:0:2639:A:N6	1:0:2640:G:C2	2.84	0.46
1:0:2856:U:C6	1:0:2857:C:H5	2.33	0.46
1:0:26:G:C5	1:0:27:G:C2	3.03	0.46
1:0:322:A:H1'	1:0:343:A:C1'	2.45	0.46
1:0:604:U:H2'	1:0:605:G:C8	2.51	0.46
1:0:657:A:O2'	1:0:658:G:H5'	2.15	0.46
1:0:718:A:O4'	1:0:740:A:H2	1.98	0.46
1:0:773:G:C2	1:0:774:A:H1'	2.51	0.46
1:0:872:G:OP2	1:0:872:G:C8	2.69	0.46
1:0:1002:C:O5'	1:0:1002:C:H6	1.99	0.46
1:0:1624:A:O2'	1:0:1625:A:C5'	2.58	0.46
1:0:1802:A:H8	1:0:1803:G:C8	2.34	0.46
1:0:2262:C:H2'	1:0:2263:C:O4'	2.15	0.46
1:0:2418:A:C5'	1:0:2419:C:P	3.03	0.46
1:0:2726:U:C6	1:0:2726:U:O5'	2.67	0.46
1:0:2727:G:O6	1:0:2734:U:H3'	2.16	0.46
1:0:105:G:H2'	1:0:106:G:O5'	2.16	0.45
1:0:340:G:OP2	1:0:340:G:C8	2.64	0.45
1:0:580:A:N7	1:0:584:A:C6	2.84	0.45
1:0:741:G:C2'	1:0:742:G:O5'	2.64	0.45
1:0:796:A:OP2	1:0:2568:A:OP1	2.35	0.45
1:0:832:A:OP2	1:0:1201:G:N1	2.46	0.45
1:0:840:U:C4	1:0:2409:A:N6	2.84	0.45
1:0:862:A:N1	1:0:941:U:N3	2.64	0.45
1:0:890:U:H2'	1:0:891:A:C8	2.51	0.45
1:0:1151:U:P	1:0:1153:A:H5'	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1226:A:C8	1:0:1250:A:N3	2.84	0.45
1:0:1249:G:O2'	1:0:1250:A:OP2	2.32	0.45
1:0:1326:U:H1'	1:0:1626:A:C2	2.51	0.45
1:0:1333:G:C5	1:0:1342:U:H5'	2.50	0.45
1:0:1351:G:HO2'	1:0:1352:G:H5'	1.81	0.45
1:0:1354:A:H4'	1:0:1355:A:OP2	2.16	0.45
1:0:1445:A:C2	1:0:1446:U:C2	3.05	0.45
1:0:1454:U:H2'	1:0:1455:C:C6	2.51	0.45
1:0:1469:U:H5'	1:0:1470:G:P	2.57	0.45
1:0:1476:G:C5	1:0:1477:C:C5	3.04	0.45
1:0:1699:A:N6	1:0:1723:U:H3	2.06	0.45
1:0:1751:A:H2'	1:0:1752:U:C6	2.51	0.45
1:0:2238:G:H1'	1:0:2406:C:C2	2.51	0.45
1:0:2240:C:C4	1:0:2259:G:N1	2.84	0.45
1:0:2266:A:C6	1:0:2268:G:N3	2.84	0.45
1:0:2345:A:C5	1:0:2346:G:C8	3.04	0.45
1:0:2501:U:C5'	1:0:2502:G:OP2	2.64	0.45
1:0:2617:G:O2'	1:0:2618:A:O5'	2.32	0.45
1:0:2699:G:HO2'	1:0:2700:U:P	2.35	0.45
1:0:2782:G:H3'	1:0:2783:U:C5'	2.40	0.45
1:0:551:A:C6	1:0:562:G:N1	2.84	0.45
1:0:747:A:H2'	1:0:748:A:O4'	2.15	0.45
1:0:807:A:N3	1:0:808:C:C6	2.85	0.45
1:0:861:G:H2'	1:0:862:A:C5'	2.46	0.45
1:0:965:G:O2'	1:0:2253:A:N1	2.31	0.45
1:0:1140:A:N7	1:0:2549:G:C1'	2.79	0.45
1:0:1511:A:N7	1:0:1512:A:C6	2.85	0.45
1:0:1647:U:O2	1:0:1652:G:O6	2.35	0.45
1:0:1849:G:H21	1:0:1868:A:N6	2.14	0.45
1:0:1940:C:N4	1:0:1941:C:N4	2.64	0.45
1:0:2020:G:H2'	1:0:2021:G:C8	2.51	0.45
1:0:2065:A:H2'	1:0:2066:G:O4'	2.16	0.45
1:0:2756:A:N3	1:0:2758:A:C5	2.85	0.45
1:0:2787:A:C2	1:0:2788:C:C6	3.05	0.45
1:0:2814:G:H2'	1:0:2815:C:C6	2.51	0.45
1:0:211:U:O2	1:0:211:U:C2'	2.64	0.45
1:0:220:U:H2'	1:0:221:A:H8	1.82	0.45
1:0:464:G:O2'	1:0:465:C:H5'	2.16	0.45
1:0:546:A:H2'	1:0:547:U:C6	2.50	0.45
1:0:554:U:HO2'	1:0:555:U:C1'	2.30	0.45
1:0:977:G:H5''	1:0:2251:U:O2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1066:G:H3'	1:0:1067:G:H5''	1.98	0.45
1:0:1236:G:C6	1:0:1240:G:C6	3.05	0.45
1:0:1628:C:C4	1:0:1629:G:C8	3.04	0.45
1:0:1628:C:H2'	1:0:1629:G:O5'	2.17	0.45
1:0:1635:G:C2	1:0:1636:G:N9	2.84	0.45
1:0:1638:G:C2	1:0:1639:U:C2	3.04	0.45
1:0:1649:A:O5'	1:0:1649:A:C8	2.67	0.45
1:0:1683:G:H2'	1:0:1684:G:H5'	1.99	0.45
1:0:1890:G:N2	1:0:1907:C:C4	2.84	0.45
1:0:1900:U:O2'	1:0:1901:A:H5'	2.15	0.45
1:0:2285:U:O2	1:0:2285:U:C2'	2.62	0.45
1:0:2426:G:C3'	1:0:2427:A:H5''	2.44	0.45
1:0:2536:G:O2'	1:0:2537:C:H5'	2.17	0.45
1:0:2652:G:C4	1:0:2653:A:C8	3.05	0.45
1:0:59:G:N3	1:0:73:A:C6	2.84	0.45
1:0:174:A:H8	1:0:174:A:O5'	1.98	0.45
1:0:317:U:C3'	1:0:318:G:C5'	2.91	0.45
1:0:340:G:C1'	1:0:488:A:H1'	2.46	0.45
1:0:475:U:C2	1:0:801:A:N1	2.84	0.45
1:0:559:C:H6	1:0:559:C:H3'	1.82	0.45
1:0:633:G:O2'	1:0:634:G:H5'	2.15	0.45
1:0:661:C:H2'	1:0:662:G:H8	1.82	0.45
1:0:697:G:C2	1:0:788:G:C6	3.04	0.45
1:0:704:G:C4	1:0:705:C:C6	3.04	0.45
1:0:1287:A:C2	1:0:1315:A:C2	3.03	0.45
1:0:1373:G:H2'	1:0:1374:G:C5'	2.44	0.45
1:0:1627:C:H3'	1:0:1627:C:OP2	2.16	0.45
1:0:1652:G:C5	1:0:1653:C:C5	3.05	0.45
1:0:1913:G:C2'	1:0:1914:U:OP2	2.64	0.45
1:0:2217:G:H4'	1:0:2218:G:N7	2.31	0.45
1:0:2274:C:H2'	1:0:2274:C:O2	2.15	0.45
1:0:2290:A:O2'	1:0:2291:U:H5'	2.15	0.45
1:0:2396:C:H6	1:0:2396:C:C5'	2.22	0.45
1:0:2494:C:O2'	1:0:2495:G:H5'	2.16	0.45
1:0:2605:C:H2'	1:0:2606:G:H8	1.82	0.45
1:0:2828:C:O2'	1:0:2829:A:H5'	2.15	0.45
1:0:2863:U:C4	1:0:2864:C:C5	3.04	0.45
1:0:8:A:H2'	1:0:9:U:C6	2.52	0.45
1:0:510:G:N2	1:0:512:A:OP1	2.48	0.45
1:0:1002:C:N4	1:0:1003:C:N4	2.61	0.45
1:0:1460:G:N2	1:0:1563:U:C6	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1522:C:N4	1:0:1523:A:C2	2.85	0.45
1:0:1689:U:H2'	1:0:1690:U:C5'	2.46	0.45
1:0:1724:C:O2	1:0:1747:G:C2	2.70	0.45
1:0:1906:U:H2'	1:0:1907:C:C6	2.50	0.45
1:0:2040:A:N9	1:0:2041:A:N7	2.58	0.45
1:0:2164:G:O2'	1:0:2165:A:H5'	2.17	0.45
1:0:2471:U:O2	1:0:2472:U:C5	2.69	0.45
1:0:2731:G:H8	1:0:2731:G:O5'	2.00	0.45
1:0:2784:A:C6	1:0:2866:A:C8	3.05	0.45
1:0:181:A:C4'	1:0:182:G:OP1	2.62	0.45
1:0:224:G:N7	1:0:226:C:O2	2.49	0.45
1:0:551:A:C2	1:0:562:G:C2	3.05	0.45
1:0:645:G:H2'	1:0:646:C:C6	2.52	0.45
1:0:734:G:H2'	1:0:735:G:H8	1.80	0.45
1:0:772:G:C4	1:0:773:G:N7	2.84	0.45
1:0:798:G:H2'	1:0:799:C:C6	2.51	0.45
1:0:815:A:C6	1:0:816:U:C2	3.05	0.45
1:0:844:G:C2	1:0:845:U:C2	3.04	0.45
1:0:881:U:H2'	1:0:882:C:C5	2.52	0.45
1:0:1040:A:C8	1:0:1041:G:N7	2.84	0.45
1:0:1091:C:O5'	1:0:1091:C:H6	2.00	0.45
1:0:1279:G:O2'	1:0:1280:U:P	2.75	0.45
1:0:1480:G:C5	1:0:1481:U:C5	3.04	0.45
1:0:1537:U:O4	1:0:1538:A:N6	2.50	0.45
1:0:1922:U:O2	1:0:2570:C:O2'	2.25	0.45
1:0:2300:G:H3'	1:0:2300:G:N3	2.32	0.45
1:0:2424:G:C2'	1:0:2425:G:C5'	2.91	0.45
1:0:2466:G:H2'	1:0:2467:A:H8	1.82	0.45
1:0:2515:G:C6	1:0:2516:U:N3	2.84	0.45
1:0:2781:G:C2'	1:0:2782:G:H8	2.25	0.45
1:0:2791:C:C2'	1:0:2792:C:H5'	2.47	0.45
1:0:48:A:H1'	1:0:50:G:N3	2.32	0.45
1:0:414:A:H2'	1:0:415:A:O4'	2.17	0.45
1:0:489:A:O2'	1:0:490:A:OP1	2.23	0.45
1:0:624:A:H2'	1:0:624:A:N3	2.31	0.45
1:0:646:C:O2	1:0:650:U:H4'	2.16	0.45
1:0:673:G:O2'	1:0:674:U:H5'	2.16	0.45
1:0:697:G:C6	1:0:807:A:C6	3.04	0.45
1:0:926:C:O5'	1:0:926:C:C6	2.69	0.45
1:0:991:A:C4	1:0:1146:G:O4'	2.70	0.45
1:0:1105:U:C2	1:0:1107:A:OP2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1210:C:H1'	1:0:1239:A:N9	2.31	0.45
1:0:1226:A:H1'	1:0:1250:A:C2	2.51	0.45
1:0:1323:G:H1'	1:0:1627:C:C5'	2.47	0.45
1:0:1450:G:H2'	1:0:1451:C:O4'	2.17	0.45
1:0:1551:U:OP2	1:0:1551:U:H6	1.99	0.45
1:0:1750:A:C2	1:0:1751:A:N7	2.85	0.45
1:0:1923:U:O2	1:0:1923:U:C2'	2.65	0.45
1:0:2432:A:C5'	1:0:2552:C:OP2	2.65	0.45
1:0:2487:G:C6	1:0:2561:G:O6	2.70	0.45
1:0:2503:G:H3'	1:0:2504:G:H5''	1.97	0.45
1:0:2557:G:O2'	1:0:2558:C:H5'	2.17	0.45
1:0:2754:C:C2	1:0:2755:A:N7	2.84	0.45
1:0:18:U:C6	1:0:19:C:H5	2.34	0.45
1:0:412:U:H2'	1:0:413:G:H5'	1.97	0.45
1:0:486:U:O2'	1:0:515:A:H1'	2.16	0.45
1:0:550:C:H2'	1:0:551:A:H8	1.82	0.45
1:0:813:A:N1	1:0:815:A:C8	2.85	0.45
1:0:875:G:H2'	1:0:876:A:O4'	2.17	0.45
1:0:1147:G:C4	1:0:1148:G:C8	3.05	0.45
1:0:1310:C:C2	1:0:1311:C:C5	3.05	0.45
1:0:1344:C:C4	1:0:1346:C:C2	3.05	0.45
1:0:1385:C:O3'	1:0:2191:A:N7	2.50	0.45
1:0:1386:A:OP1	1:0:2191:A:N6	2.29	0.45
1:0:1404:C:O2	1:0:1404:C:C2'	2.62	0.45
1:0:1618:U:C6	1:0:1618:U:O5'	2.70	0.45
1:0:1676:U:C2	1:0:1985:G:N2	2.84	0.45
1:0:1727:C:H4'	1:0:2833:C:C2	2.52	0.45
1:0:1807:A:OP1	1:0:1814:G:H4'	2.17	0.45
1:0:1981:A:O3'	1:0:2704:U:H4'	2.17	0.45
1:0:2240:C:N3	1:0:2241:U:C5	2.85	0.45
1:0:2240:C:N4	1:0:2259:G:O6	2.50	0.45
1:0:2419:C:N3	1:0:2420:C:H1'	2.32	0.45
1:0:2594:U:O2	1:0:2595:C:C6	2.69	0.45
1:0:2608:A:N6	1:0:2869:U:N3	2.64	0.45
1:0:2642:G:O2'	1:0:2643:G:H5'	2.17	0.45
1:0:2784:A:C5	1:0:2866:A:C5	3.05	0.45
1:0:2859:U:H2'	1:0:2860:C:C5'	2.47	0.45
1:0:550:C:H2'	1:0:551:A:C8	2.52	0.45
1:0:612:G:H4'	1:0:613:A:O3'	2.17	0.45
1:0:692:C:O2	1:0:693:A:C8	2.70	0.45
1:0:793:G:H21	1:0:796:A:H62	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:832:A:C6	1:0:1203:A:C4	3.04	0.45
1:0:1086:C:H3'	1:0:1086:C:C6	2.52	0.45
1:0:1086:C:C3'	1:0:1087:C:H5''	2.46	0.45
1:0:1242:A:H2'	1:0:1243:G:H8	1.82	0.45
1:0:1570:C:O2'	1:0:1571:G:OP1	2.30	0.45
1:0:1657:A:H2'	1:0:1658:A:C5'	2.47	0.45
1:0:1819:U:H2'	1:0:1820:G:O4'	2.17	0.45
1:0:1891:C:H2'	1:0:1892:C:C6	2.52	0.45
1:0:1955:G:H2'	1:0:1956:G:H5'	1.99	0.45
1:0:1969:G:C2	1:0:1970:G:C5	3.05	0.45
1:0:2083:G:O2'	1:0:2084:G:H5'	2.17	0.45
1:0:2177:U:C2	1:0:2178:U:C5	3.04	0.45
1:0:2240:C:C2'	1:0:2241:U:C5'	2.94	0.45
1:0:2264:C:C1'	1:0:2267:A:H62	2.29	0.45
1:0:2468:G:H1'	1:0:2497:A:N6	2.26	0.45
1:0:2497:A:C5'	1:0:2498:U:OP2	2.65	0.45
1:0:2514:G:H21	1:0:2515:G:H1'	1.82	0.45
1:0:2670:C:H5'	1:0:2670:C:C6	2.51	0.45
1:0:2696:A:O2'	1:0:2697:G:H5'	2.17	0.45
1:0:2705:A:C5'	1:0:2705:A:C8	2.98	0.45
1:0:2857:C:C2'	1:0:2858:A:O5'	2.65	0.45
1:0:296:A:H2'	1:0:297:A:H8	1.82	0.45
1:0:629:C:H2'	1:0:630:G:H8	1.81	0.45
1:0:829:C:C4	1:0:1206:G:N1	2.84	0.45
1:0:1016:C:C2	1:0:1154:A:N3	2.85	0.45
1:0:1017:C:C2	1:0:1018:C:C5	3.05	0.45
1:0:1147:G:N3	1:0:1148:G:C8	2.85	0.45
1:0:1153:A:C4	1:0:1155:G:N7	2.85	0.45
1:0:1181:C:N4	1:0:1182:U:C4	2.85	0.45
1:0:1227:A:H61	1:0:1248:G:H1'	1.82	0.45
1:0:1429:A:N6	1:0:1600:U:O3'	2.50	0.45
1:0:2015:G:C5	1:0:2551:A:H2	2.35	0.45
1:0:2225:G:H2'	1:0:2226:A:C8	2.48	0.45
1:0:2564:U:O2'	1:0:2565:C:C5'	2.30	0.45
1:0:2687:G:N2	1:0:2688:G:N3	2.65	0.45
1:0:2804:G:H2'	1:0:2805:G:O4'	2.18	0.45
1:0:2813:G:C2'	1:0:2814:G:H5'	2.47	0.45
1:0:29:U:H2'	1:0:30:G:C8	2.49	0.44
1:0:167:A:N1	1:0:812:G:H1'	2.32	0.44
1:0:199:A:N6	1:0:201:G:C2	2.84	0.44
1:0:228:A:C5	1:0:229:G:H1'	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:408:U:H2'	1:0:409:G:H8	1.81	0.44
1:0:633:G:C6	1:0:634:G:C5	3.05	0.44
1:0:679:C:H2'	1:0:680:U:H6	1.82	0.44
1:0:689:A:C8	1:0:2422:C:H1'	2.51	0.44
1:0:699:G:C4'	1:0:700:C:OP2	2.65	0.44
1:0:773:G:H2'	1:0:774:A:O4'	2.17	0.44
1:0:806:A:C2'	1:0:807:A:OP2	2.64	0.44
1:0:824:U:C6	1:0:824:U:C3'	3.00	0.44
1:0:972:C:C2	1:0:2014:A:H2	2.35	0.44
1:0:1217:U:O2'	1:0:1218:C:H5'	2.17	0.44
1:0:1690:U:O2'	1:0:1691:G:H5'	2.17	0.44
1:0:1779:C:O2	1:0:1779:C:C2'	2.64	0.44
1:0:1872:A:C2	1:0:1873:A:C4	3.05	0.44
1:0:1927:U:O2	1:0:1927:U:C2'	2.53	0.44
1:0:2395:C:N3	1:0:2396:C:C5	2.84	0.44
1:0:2402:U:H4'	1:0:2404:A:C8	2.52	0.44
1:0:2454:C:O5'	1:0:2454:C:H6	2.00	0.44
1:0:2474:G:C6	1:0:2475:C:N3	2.85	0.44
1:0:2492:G:C4	1:0:2493:U:C5	3.05	0.44
1:0:2519:C:C2'	1:0:2520:A:H5'	2.47	0.44
1:0:2529:G:N1	1:0:2530:C:N3	2.65	0.44
1:0:2724:G:N7	1:0:2735:C:H1'	2.33	0.44
1:0:2872:U:O2'	1:0:2873:G:H5'	2.17	0.44
1:0:50:G:HO2'	1:0:51:A:P	2.40	0.44
1:0:51:A:C2	1:0:52:A:C4	3.05	0.44
1:0:82:G:C2'	1:0:83:A:OP2	2.65	0.44
1:0:198:A:C2	1:0:210:A:C5	3.05	0.44
1:0:427:C:N4	1:0:428:A:N6	2.65	0.44
1:0:471:A:H61	1:0:480:G:H1'	1.83	0.44
1:0:617:U:H2'	1:0:618:A:O4'	2.18	0.44
1:0:676:G:C5	1:0:677:G:C8	3.05	0.44
1:0:701:U:H4'	1:0:1771:A:C2	2.51	0.44
1:0:762:A:C5	1:0:1634:A:C2	3.04	0.44
1:0:799:C:H2'	1:0:800:U:O4'	2.18	0.44
1:0:833:A:C4	1:0:954:U:O2'	2.70	0.44
1:0:849:G:C5	1:0:850:C:C5	3.05	0.44
1:0:883:A:C6	1:0:920:G:C6	3.06	0.44
1:0:966:A:N7	1:0:967:G:N7	2.66	0.44
1:0:1192:A:C2	1:0:1193:G:N7	2.86	0.44
1:0:1251:G:N2	1:0:1252:C:H1'	2.33	0.44
1:0:1440:G:C8	1:0:1441:A:H5'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1474:A:C6	1:0:1476:G:C4	3.04	0.44
1:0:1624:A:O2'	1:0:1625:A:OP2	2.34	0.44
1:0:1729:C:H2'	1:0:1730:G:H8	1.77	0.44
1:0:1788:C:N3	1:0:1789:U:C5	2.85	0.44
1:0:2034:A:C5	1:0:2593:A:C5	3.05	0.44
1:0:2239:C:O2'	1:0:2367:A:O2'	2.27	0.44
1:0:2302:G:N2	1:0:2303:C:C2	2.86	0.44
1:0:2464:G:O2'	1:0:2465:G:H5'	2.16	0.44
1:0:2471:U:C2'	1:0:2472:U:C6	2.94	0.44
1:0:2547:C:H6	1:0:2547:C:O5'	2.00	0.44
1:0:88:G:C6	1:0:89:A:N7	2.85	0.44
1:0:180:C:C4	1:0:181:A:N6	2.85	0.44
1:0:301:C:H2'	1:0:302:U:O5'	2.17	0.44
1:0:692:C:C2	1:0:693:A:N7	2.86	0.44
1:0:1040:A:H2'	1:0:1041:G:H5'	1.99	0.44
1:0:1173:G:N1	1:0:1174:G:C5	2.85	0.44
1:0:1233:A:HO2'	1:0:1234:C:P	2.35	0.44
1:0:1438:G:N2	1:0:1590:C:C2	2.85	0.44
1:0:1468:A:OP2	1:0:1468:A:N7	2.51	0.44
1:0:1610:A:H2'	1:0:1611:U:C6	2.52	0.44
1:0:1629:G:N1	1:0:1635:G:C5	2.86	0.44
1:0:1632:A:H4'	1:0:1633:C:OP2	2.18	0.44
1:0:1669:A:C6	1:0:1670:G:C2	3.05	0.44
1:0:1803:G:O2'	1:0:1804:U:H5'	2.17	0.44
1:0:1869:A:H8	1:0:1869:A:O5'	2.00	0.44
1:0:2023:C:H2'	1:0:2024:U:O4'	2.17	0.44
1:0:2283:G:O6	1:0:2291:U:O4	2.35	0.44
1:0:2500:C:H2'	1:0:2501:U:O4'	2.17	0.44
1:0:2521:A:H5'	1:0:2522:G:OP1	2.16	0.44
1:0:2620:G:N1	1:0:2621:G:C5	2.86	0.44
1:0:2759:U:C3'	1:0:2759:U:C6	3.00	0.44
1:0:53:G:C2	1:0:54:G:H1'	2.52	0.44
1:0:304:A:C2'	1:0:305:A:H5''	2.48	0.44
1:0:421:G:H2'	1:0:422:C:O4'	2.17	0.44
1:0:460:U:C4'	1:0:461:A:OP2	2.65	0.44
1:0:629:C:H2'	1:0:630:G:C8	2.53	0.44
1:0:677:G:O4'	1:0:951:G:H5''	2.17	0.44
1:0:751:G:HO2'	1:0:752:G:P	2.36	0.44
1:0:1169:C:C6	1:0:1169:C:H3'	2.53	0.44
1:0:1338:G:O2'	1:0:1339:U:H5'	2.17	0.44
1:0:1491:C:O2	1:0:1491:C:H2'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1563:U:H2'	1:0:1564:U:H6	1.79	0.44
1:0:1629:G:H5''	1:0:1630:A:H5''	1.99	0.44
1:0:1724:C:C2	1:0:1747:G:C2	3.05	0.44
1:0:1790:G:H4'	1:0:1791:C:C6	2.52	0.44
1:0:1838:G:N2	1:0:1878:C:C2	2.86	0.44
1:0:1924:C:O4'	1:0:1948:C:N4	2.50	0.44
1:0:2069:U:H1'	1:0:2213:G:N2	2.32	0.44
1:0:2084:G:H8	1:0:2084:G:O5'	2.00	0.44
1:0:2404:A:O2'	1:0:2405:A:P	2.75	0.44
1:0:2427:A:OP2	1:0:2478:C:P	2.75	0.44
1:0:2514:G:N3	1:0:2514:G:H2'	2.31	0.44
1:0:2558:C:C2'	1:0:2559:U:C5'	2.92	0.44
3:0:2881:G80:H10	3:0:2881:G80:C14	2.35	0.44
1:0:181:A:N3	1:0:183:U:O4	2.51	0.44
1:0:211:U:O2	1:0:212:U:O4'	2.36	0.44
1:0:631:G:H5''	1:0:632:A:OP1	2.18	0.44
1:0:1437:A:N7	1:0:1438:G:N7	2.66	0.44
1:0:1621:C:H4'	1:0:1626:A:N7	2.33	0.44
1:0:1638:G:N2	1:0:1639:U:O2	2.51	0.44
1:0:1673:C:C2	1:0:1674:C:C5	3.05	0.44
1:0:1725:C:O2	1:0:1742:G:C2	2.71	0.44
1:0:1823:G:H2'	1:0:1824:C:C6	2.52	0.44
1:0:1893:G:C5	1:0:1894:U:O4	2.70	0.44
1:0:1940:C:N4	1:0:1941:C:H41	2.15	0.44
1:0:2034:A:N6	1:0:2593:A:C4	2.86	0.44
1:0:2039:G:C2	1:0:2040:A:C8	3.05	0.44
1:0:2043:A:O4'	1:0:2481:G:C1'	2.56	0.44
1:0:2161:C:O2'	1:0:2162:C:OP1	2.34	0.44
1:0:2226:A:C2	1:0:2227:C:C2	3.06	0.44
1:0:2523:G:N2	1:0:2524:G:H1'	2.33	0.44
1:0:2705:A:C4	1:0:2707:G:C8	3.06	0.44
1:0:2835:A:H8	1:0:2835:A:O5'	2.00	0.44
1:0:18:U:C5	1:0:19:C:C5	3.06	0.44
1:0:32:C:N4	1:0:458:G:O2'	2.50	0.44
1:0:167:A:H2'	1:0:168:A:C8	2.53	0.44
1:0:179:U:C6	1:0:180:C:C5	3.05	0.44
1:0:202:A:C6	1:0:203:G:C4	3.06	0.44
1:0:580:A:O2'	1:0:581:A:P	2.76	0.44
1:0:640:C:H4'	1:0:660:G:C2	2.51	0.44
1:0:684:C:H2'	1:0:685:U:C6	2.53	0.44
1:0:730:C:N3	1:0:731:A:C8	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:819:C:N3	1:0:820:U:H5	2.15	0.44
1:0:885:A:N1	1:0:918:A:C4	2.85	0.44
1:0:1004:A:H2'	1:0:1005:U:C5'	2.47	0.44
1:0:1465:G:C6	1:0:1476:G:O6	2.70	0.44
1:0:1466:C:C2'	1:0:1467:U:C5'	2.95	0.44
1:0:1478:U:H2'	1:0:1479:G:H8	1.83	0.44
1:0:1548:U:H2'	1:0:1549:C:C5	2.53	0.44
1:0:1621:C:C2'	1:0:1626:A:N7	2.81	0.44
1:0:1776:A:C8	1:0:1778:U:C5	3.05	0.44
1:0:1817:U:H2'	1:0:1818:G:C8	2.52	0.44
1:0:1826:U:O4	1:0:1953:A:N6	2.51	0.44
1:0:1871:G:N3	1:0:1871:G:C3'	2.81	0.44
1:0:1949:A:H1'	1:0:2572:U:C5'	2.44	0.44
1:0:2040:A:C2'	1:0:2041:A:O4'	2.66	0.44
1:0:2325:A:C2	1:0:2362:G:C6	3.05	0.44
1:0:2448:A:O2'	1:0:2449:G:H5'	2.17	0.44
1:0:2484:G:O2'	1:0:2485:U:H5''	2.17	0.44
1:0:2550:C:O5'	1:0:2550:C:H6	2.00	0.44
1:0:2594:U:N3	1:0:2595:C:C5	2.85	0.44
1:0:2672:U:H2'	1:0:2673:G:C8	2.43	0.44
1:0:2756:A:HO2'	1:0:2757:G:P	2.41	0.44
1:0:2:G:N2	1:0:2876:C:C2	2.85	0.44
1:0:50:G:O2'	1:0:51:A:P	2.76	0.44
1:0:66:U:O2	1:0:67:G:C6	2.71	0.44
1:0:178:C:O2'	1:0:179:U:H5'	2.17	0.44
1:0:201:G:C4	1:0:202:A:C8	3.06	0.44
1:0:471:A:C8	1:0:472:C:C5	3.05	0.44
1:0:686:C:H2'	1:0:687:G:C5'	2.44	0.44
1:0:968:C:N4	1:0:2437:G:H5''	2.32	0.44
1:0:978:U:H2'	1:0:979:A:C8	2.53	0.44
1:0:1033:G:N2	1:0:1035:G:H22	2.16	0.44
1:0:1051:U:O2	1:0:1051:U:H2'	2.18	0.44
1:0:1369:G:C2	1:0:1370:U:C2	3.05	0.44
1:0:1440:G:C6	1:0:1441:A:N7	2.85	0.44
1:0:1477:C:H1'	1:0:2681:A:C2	2.53	0.44
1:0:1558:C:O2'	1:0:1559:G:H5'	2.18	0.44
1:0:1685:A:C2	1:0:1976:U:H1'	2.53	0.44
1:0:1900:U:O2'	1:0:1946:U:H5'	2.17	0.44
1:0:2557:G:N7	2:B:140:SER:CA	2.81	0.44
1:0:2619:G:C2	1:0:2620:G:C8	3.06	0.44
1:0:2645:C:C3'	1:0:2646:C:H6	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2876:C:O2'	1:0:2877:A:H5'	2.17	0.44
1:0:121:G:O2'	1:0:122:G:H5'	2.18	0.44
1:0:126:C:C4	1:0:127:C:N4	2.86	0.44
1:0:485:G:C5	1:0:520:C:C5	3.06	0.44
1:0:541:C:N4	1:0:572:G:N9	2.61	0.44
1:0:612:G:H4'	1:0:613:A:O2'	2.18	0.44
1:0:778:G:O2'	1:0:779:U:H5'	2.17	0.44
1:0:783:G:H2'	1:0:784:U:O4'	2.18	0.44
1:0:874:A:C4	1:0:929:A:N6	2.85	0.44
1:0:879:A:N3	1:0:879:A:C2'	2.78	0.44
1:0:1288:A:N7	1:0:1309:G:C1'	2.81	0.44
1:0:1387:G:O2'	1:0:1388:C:H5'	2.18	0.44
1:0:1410:U:O2	1:0:1410:U:C2'	2.66	0.44
1:0:1596:A:H2'	1:0:1597:A:O4'	2.18	0.44
1:0:1607:A:O2'	1:0:1608:U:H5'	2.18	0.44
1:0:1696:C:H6	1:0:1697:U:C5	2.36	0.44
1:0:1921:A:H2'	1:0:1922:U:H5''	2.00	0.44
1:0:2015:G:C2	1:0:2038:C:C2	3.06	0.44
1:0:2211:U:H2'	1:0:2212:U:O5'	2.18	0.44
1:0:2573:C:C4	1:0:2579:A:N1	2.85	0.44
1:0:2728:A:N1	1:0:2737:A:C8	2.86	0.44
1:0:2838:U:C2	1:0:2839:G:C8	3.06	0.44
1:0:134:G:C2'	1:0:135:U:H5''	2.47	0.44
1:0:202:A:C6	1:0:203:G:N3	2.86	0.44
1:0:389:G:N1	1:0:412:U:O2	2.51	0.44
1:0:435:A:N1	1:0:436:A:C2	2.86	0.44
1:0:488:A:N7	1:0:511:A:N7	2.66	0.44
1:0:653:G:H21	1:0:657:A:H62	1.59	0.44
1:0:1020:A:N7	1:0:1021:A:C5	2.85	0.44
1:0:1037:U:C6	1:0:1037:U:C3'	3.01	0.44
1:0:1459:U:H3'	1:0:1459:U:P	2.56	0.44
1:0:1459:U:C2'	1:0:1459:U:O2	2.66	0.44
1:0:1498:G:H2'	1:0:1499:A:O4'	2.18	0.44
1:0:1561:A:H2'	1:0:1562:G:O4'	2.18	0.44
1:0:1645:U:H2'	1:0:1646:G:H8	1.82	0.44
1:0:1871:G:HO2'	1:0:1872:A:H8	1.64	0.44
1:0:1890:G:C6	1:0:1891:C:N4	2.86	0.44
1:0:2015:G:N1	1:0:2038:C:N3	2.65	0.44
1:0:2276:C:C4	1:0:2297:G:N2	2.86	0.44
1:0:2645:C:O2'	1:0:2646:C:H5'	2.18	0.44
1:0:2724:G:C5	1:0:2735:C:H1'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:3:U:H2'	1:0:4:C:C6	2.53	0.43
1:0:46:C:H2'	1:0:47:G:H8	1.81	0.43
1:0:48:A:N1	1:0:116:A:C4	2.86	0.43
1:0:464:G:H1'	1:0:469:G:N2	2.33	0.43
1:0:613:A:C5	1:0:636:G:N1	2.86	0.43
1:0:704:G:C4	1:0:705:C:C5	3.06	0.43
1:0:805:G:H2'	1:0:2419:C:C4	2.53	0.43
1:0:946:U:H2'	1:0:947:C:H6	1.83	0.43
1:0:1586:A:O2'	1:0:1587:A:H5'	2.18	0.43
1:0:1685:A:N1	1:0:1693:A:N6	2.65	0.43
1:0:1770:U:C2	1:0:1774:A:C5	3.06	0.43
1:0:1818:G:C4	1:0:1819:U:C5	3.06	0.43
1:0:1976:U:O2	1:0:1977:C:O4'	2.36	0.43
1:0:2050:G:C6	1:0:2052:G:N7	2.85	0.43
1:0:2270:U:OP1	1:0:2360:C:H5'	2.18	0.43
1:0:2311:U:O2'	1:0:2312:A:P	2.76	0.43
1:0:2542:U:C6	1:0:2544:A:OP2	2.71	0.43
1:0:2550:C:C4	1:0:2553:G:C8	3.06	0.43
1:0:2699:G:HO2'	1:0:2700:U:H6	1.64	0.43
1:0:340:G:C4'	1:0:341:A:OP2	2.66	0.43
1:0:536:A:N1	1:0:2605:C:C4'	2.79	0.43
1:0:584:A:OP2	1:0:2038:C:C5	2.69	0.43
1:0:698:A:O2'	1:0:699:G:OP2	2.32	0.43
1:0:805:G:H2'	1:0:2419:C:C2	2.52	0.43
1:0:831:G:O2'	1:0:832:A:O4'	2.33	0.43
1:0:861:G:C8	1:0:862:A:N7	2.86	0.43
1:0:861:G:N2	1:0:943:U:O2'	2.50	0.43
1:0:971:A:N6	1:0:973:U:O2	2.51	0.43
1:0:1072:U:O2'	1:0:1073:G:H8	2.01	0.43
1:0:1173:G:C2	1:0:1174:G:C8	3.05	0.43
1:0:1386:A:N6	1:0:1387:G:C6	2.86	0.43
1:0:1399:C:O2'	1:0:1400:A:C5'	2.61	0.43
1:0:1468:A:O5'	1:0:1468:A:C8	2.60	0.43
1:0:1641:C:H2'	1:0:1642:G:C5'	2.47	0.43
1:0:1799:A:HO2'	1:0:1800:A:P	2.41	0.43
1:0:1826:U:H3	1:0:1953:A:H62	1.67	0.43
1:0:2621:G:N2	1:0:2622:G:N3	2.65	0.43
1:0:2807:U:H3'	1:0:2807:U:C6	2.53	0.43
1:0:320:A:N6	1:0:341:A:C2	2.86	0.43
1:0:387:A:H2'	1:0:387:A:N3	2.33	0.43
1:0:402:A:H8	1:0:402:A:OP1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:520:C:C4	1:0:521:U:C4	3.06	0.43
1:0:580:A:N7	1:0:584:A:N6	2.66	0.43
1:0:584:A:H2'	1:0:585:U:H6	1.84	0.43
1:0:759:C:H6	1:0:759:C:H3'	1.82	0.43
1:0:792:U:H2'	1:0:793:G:O4'	2.18	0.43
1:0:801:A:C4'	1:0:802:A:OP1	2.66	0.43
1:0:836:G:C2	1:0:837:U:C4	3.06	0.43
1:0:846:A:N7	1:0:847:C:N4	2.66	0.43
1:0:865:A:C5	1:0:866:U:C4	3.07	0.43
1:0:914:C:H2'	1:0:915:C:C6	2.46	0.43
1:0:998:C:C4	1:0:999:A:C8	3.06	0.43
1:0:1002:C:N3	1:0:1003:C:C5	2.85	0.43
1:0:1153:A:N3	1:0:1155:G:N7	2.66	0.43
1:0:1236:G:N1	1:0:1240:G:C6	2.86	0.43
1:0:1271:C:C2	1:0:1272:G:C8	3.06	0.43
1:0:1359:G:C6	1:0:1617:G:N1	2.87	0.43
1:0:1465:G:H1	1:0:1476:G:H1	1.66	0.43
1:0:1756:C:O2'	1:0:1757:C:O5'	2.32	0.43
1:0:2006:G:C2	1:0:2024:U:O2	2.71	0.43
1:0:2047:C:C2	1:0:2429:A:N6	2.87	0.43
1:0:2050:G:N1	1:0:2052:G:C4	2.86	0.43
1:0:2050:G:N2	1:0:2052:G:H1'	2.33	0.43
1:0:2201:G:C2	1:0:2202:G:C8	3.07	0.43
1:0:2351:G:C2	1:0:2352:A:C8	3.06	0.43
1:0:2756:A:O4'	1:0:2758:A:C8	2.71	0.43
1:0:2797:G:O2'	1:0:2799:C:OP2	2.35	0.43
1:0:2856:U:H2'	1:0:2857:C:H6	1.83	0.43
1:0:177:U:C4	1:0:225:G:C4	3.06	0.43
1:0:215:G:N2	1:0:216:U:H1'	2.34	0.43
1:0:246:C:C5	1:0:373:A:H1'	2.53	0.43
1:0:468:A:H61	1:0:481:A:H5''	1.82	0.43
1:0:471:A:N7	1:0:472:C:C5	2.86	0.43
1:0:543:G:C4	1:0:544:U:C5	3.07	0.43
1:0:580:A:H1'	1:0:582:G:H8	1.82	0.43
1:0:591:G:C3'	1:0:592:G:C8	2.89	0.43
1:0:669:G:H8	1:0:669:G:O5'	2.00	0.43
1:0:684:C:H2'	1:0:685:U:H6	1.84	0.43
1:0:726:G:H2'	1:0:727:U:O4'	2.18	0.43
1:0:1002:C:H5'	1:0:1200:G:OP2	2.18	0.43
1:0:1289:A:C2	1:0:1290:A:C8	3.07	0.43
1:0:1363:C:O2'	1:0:1364:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1465:G:OP1	1:0:1465:G:H4'	2.19	0.43
1:0:1528:C:H3'	1:0:1529:C:C5'	2.32	0.43
1:0:1657:A:H2'	1:0:1658:A:O4'	2.19	0.43
1:0:1820:G:H5''	1:0:1820:G:H8	1.83	0.43
1:0:2313:G:C2'	1:0:2314:A:OP1	2.66	0.43
1:0:2418:A:N3	1:0:2418:A:H2'	2.33	0.43
1:0:2529:G:N1	1:0:2530:C:C4	2.86	0.43
1:0:2661:G:C2'	1:0:2662:C:H5'	2.48	0.43
1:0:2693:U:H3'	1:0:2694:G:H5''	2.00	0.43
1:0:2718:A:N1	1:0:2719:U:C2	2.86	0.43
1:0:2783:U:C6	1:0:2783:U:C3'	3.00	0.43
1:0:2845:C:C2'	1:0:2846:G:H5'	2.48	0.43
1:0:164:G:C2	1:0:187:U:O2	2.72	0.43
1:0:391:C:O2'	1:0:392:G:H5'	2.19	0.43
1:0:681:A:H2'	1:0:683:A:N7	2.33	0.43
1:0:788:G:H4'	1:0:790:A:C4	2.54	0.43
1:0:940:G:O5'	1:0:941:U:H5''	2.19	0.43
1:0:1109:A:C2'	1:0:1110:G:H5'	2.49	0.43
1:0:1119:U:N3	1:0:1120:C:C4	2.86	0.43
1:0:1145:C:C5	1:0:1147:G:P	3.11	0.43
1:0:1154:A:P	1:0:1154:A:C8	3.11	0.43
1:0:1326:U:O2'	1:0:1327:C:OP1	2.30	0.43
1:0:1783:G:C2	1:0:1820:G:O2'	2.71	0.43
1:0:1837:G:C2	1:0:1879:G:C2	3.06	0.43
1:0:1974:U:H2'	1:0:1975:G:C5'	2.48	0.43
1:0:2035:G:C6	1:0:2597:G:C2	3.07	0.43
1:0:2073:A:C5	1:0:2074:U:O4	2.71	0.43
1:0:2211:U:C2'	1:0:2212:U:O5'	2.66	0.43
1:0:2219:U:O2'	1:0:2220:A:H5'	2.19	0.43
1:0:2335:U:O2'	1:0:2336:G:H5'	2.18	0.43
1:0:2697:G:C4	1:0:2698:G:C8	3.06	0.43
1:0:2781:G:C2'	1:0:2782:G:O4'	2.66	0.43
1:0:2867:G:H2'	1:0:2868:G:OP2	2.18	0.43
1:0:177:U:C4	1:0:225:G:N3	2.87	0.43
1:0:532:A:H2'	1:0:533:C:C6	2.53	0.43
1:0:617:U:N3	1:0:632:A:N7	2.67	0.43
1:0:638:A:H2'	1:0:639:G:O4'	2.18	0.43
1:0:659:G:O2'	1:0:660:G:H5'	2.19	0.43
1:0:741:G:C4	1:0:743:A:C8	3.05	0.43
1:0:832:A:H2	1:0:953:G:N3	2.15	0.43
1:0:875:G:C2'	1:0:876:A:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:944:A:C2	1:0:945:G:N9	2.86	0.43
1:0:1393:G:C2	1:0:1394:G:C8	3.05	0.43
1:0:1414:G:H2'	1:0:1415:C:C6	2.53	0.43
1:0:1427:G:H21	1:0:1604:A:N6	2.17	0.43
1:0:1438:G:N2	1:0:1590:C:C2'	2.80	0.43
1:0:1474:A:N6	1:0:1476:G:C4	2.87	0.43
1:0:1476:G:H5'	1:0:1477:C:OP2	2.19	0.43
1:0:1571:G:N2	1:0:1572:C:C2	2.87	0.43
1:0:1659:G:C2'	1:0:1660:G:O5'	2.65	0.43
1:0:1711:C:C2'	1:0:1712:G:OP2	2.66	0.43
1:0:1802:A:C8	1:0:1803:G:O4'	2.72	0.43
1:0:2044:G:N2	1:0:2046:C:N1	2.67	0.43
1:0:2270:U:O5'	1:0:2270:U:H6	2.01	0.43
1:0:2484:G:OP2	3:0:2881:G80:O2	2.34	0.43
1:0:2553:G:H8	1:0:2553:G:O5'	2.02	0.43
1:0:2556:A:C8	1:0:2556:A:H3'	2.53	0.43
1:0:2667:C:N4	1:0:2699:G:C2'	2.81	0.43
1:0:2676:G:C2	1:0:2690:A:C2	3.06	0.43
1:0:2781:G:C2'	1:0:2782:G:H1'	2.47	0.43
1:0:2826:C:H2'	1:0:2827:G:O4'	2.19	0.43
1:0:2863:U:H2'	1:0:2864:C:O4'	2.18	0.43
1:0:303:C:C2	1:0:360:A:N1	2.87	0.43
1:0:546:A:H2'	1:0:547:U:H6	1.83	0.43
1:0:700:C:H2'	1:0:701:U:C1'	2.48	0.43
1:0:797:A:N7	1:0:805:G:N3	2.66	0.43
1:0:1005:U:H3	1:0:1007:A:H62	1.67	0.43
1:0:1368:G:C5	1:0:1369:G:N7	2.87	0.43
1:0:1386:A:H5''	1:0:2191:A:C6	2.54	0.43
1:0:1436:G:N7	1:0:1437:A:C6	2.86	0.43
1:0:1455:C:N4	1:0:1456:C:H41	2.16	0.43
1:0:1526:U:O4	1:0:1527:G:N2	2.51	0.43
1:0:1560:A:H2'	1:0:1561:A:C8	2.54	0.43
1:0:1932:G:C2	1:0:1941:C:C2	3.07	0.43
1:0:1969:G:C2	1:0:1970:G:C8	3.06	0.43
1:0:2076:G:H21	1:0:2181:A:H61	1.65	0.43
1:0:2501:U:H5''	1:0:2502:G:OP2	2.17	0.43
1:0:2571:G:C5	1:0:2572:U:C4	3.06	0.43
1:0:2610:G:C2	1:0:2611:A:N9	2.86	0.43
1:0:2756:A:C8	1:0:2756:A:C3'	3.02	0.43
1:0:2838:U:H2'	1:0:2839:G:O4'	2.19	0.43
1:0:2841:U:C2	1:0:2843:A:O2'	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:48:A:C2	1:0:116:A:C5	3.07	0.43
1:0:67:G:C2	1:0:72:A:C2	3.07	0.43
1:0:586:G:C6	1:0:587:A:N6	2.86	0.43
1:0:676:G:C5	1:0:677:G:N7	2.87	0.43
1:0:754:G:H2'	1:0:755:C:H6	1.83	0.43
1:0:929:A:H3'	1:0:930:A:C5'	2.24	0.43
1:0:1058:G:O2'	1:0:1059:A:H8	2.01	0.43
1:0:1194:U:O2'	1:0:1195:U:H5'	2.19	0.43
1:0:1482:U:H1'	1:0:1562:G:N2	2.34	0.43
1:0:1583:A:C2'	1:0:1584:G:OP2	2.66	0.43
1:0:1597:A:N6	1:0:1598:C:N4	2.67	0.43
1:0:1666:G:C6	1:0:1992:G:O6	2.72	0.43
1:0:1668:G:C2	1:0:1990:U:C2	3.07	0.43
1:0:1786:C:C4	1:0:1787:U:C4	3.07	0.43
1:0:1910:A:N1	1:0:1911:A:C2	2.87	0.43
1:0:2047:C:O2	1:0:2429:A:C6	2.71	0.43
1:0:2080:U:H2'	1:0:2081:U:H6	1.82	0.43
1:0:2094:C:O2	1:0:2094:C:C2'	2.63	0.43
1:0:2240:C:H1'	1:0:2367:A:N3	2.34	0.43
1:0:2369:U:H6	1:0:2369:U:C3'	2.19	0.43
1:0:2382:C:O2	1:0:2383:C:C6	2.72	0.43
1:0:2573:C:H2'	1:0:2574:G:C5'	2.47	0.43
1:0:2697:G:N1	1:0:2698:G:C5	2.87	0.43
1:0:2789:U:C5	1:0:2790:C:C4	3.07	0.43
1:0:68:C:C1'	1:0:72:A:N3	2.82	0.43
1:0:132:U:C2	1:0:140:G:C2	3.07	0.43
1:0:712:A:C8	1:0:746:G:N2	2.83	0.43
1:0:801:A:C5'	1:0:802:A:OP1	2.67	0.43
1:0:886:A:N6	1:0:917:U:N3	2.67	0.43
1:0:1015:U:O4'	1:0:1021:A:C5	2.72	0.43
1:0:1171:A:C4	1:0:1172:U:C5	3.07	0.43
1:0:1299:A:C2'	1:0:1301:U:OP2	2.57	0.43
1:0:1552:C:C3'	1:0:1553:G:H5'	2.49	0.43
1:0:1685:A:C8	1:0:1691:G:C6	3.07	0.43
1:0:1920:A:N6	1:0:1923:U:C6	2.86	0.43
1:0:1938:U:H3'	1:0:2530:C:O2'	2.18	0.43
1:0:2006:G:N2	1:0:2024:U:O2	2.52	0.43
1:0:2124:C:O5'	1:0:2124:C:H6	2.01	0.43
1:0:2229:G:C2	1:0:2475:C:H5''	2.53	0.43
1:0:2272:A:C6	1:0:2273:C:C4	3.07	0.43
1:0:2306:A:H2'	1:0:2307:A:H8	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2326:C:H2'	1:0:2327:U:C6	2.54	0.43
1:0:2371:A:C8	1:0:2372:A:C8	3.07	0.43
1:0:2527:G:C6	1:0:2540:A:N1	2.87	0.43
1:0:2608:A:HO2'	1:0:2609:G:P	2.42	0.43
1:0:2690:A:N7	1:0:2694:G:C8	2.87	0.43
1:0:2791:C:N3	1:0:2806:G:C2	2.87	0.43
1:0:2827:G:O2'	1:0:2828:C:H5'	2.19	0.43
1:0:174:A:N1	1:0:175:C:O2	2.52	0.43
1:0:490:A:N3	1:0:491:A:C5	2.87	0.43
1:0:801:A:H5''	1:0:802:A:OP1	2.19	0.43
1:0:830:C:O2'	1:0:831:G:H5'	2.19	0.43
1:0:1012:A:H2'	1:0:1013:G:O4'	2.19	0.43
1:0:1279:G:H22	1:0:1995:G:H2'	1.82	0.43
1:0:1345:G:H4'	1:0:1346:C:OP1	2.15	0.43
1:0:1435:G:H2'	1:0:1435:G:N3	2.33	0.43
1:0:1650:A:N6	1:0:1652:G:C6	2.86	0.43
1:0:1772:C:O2'	1:0:1773:C:O5'	2.37	0.43
1:0:1810:U:H2'	1:0:1811:A:OP2	2.19	0.43
1:0:2007:G:O2'	1:0:2008:C:C5'	2.62	0.43
1:0:2188:A:C6	1:0:2189:A:N6	2.87	0.43
1:0:2510:A:C2	1:0:2638:G:O4'	2.71	0.43
1:0:2746:G:N3	1:0:2746:G:C2'	2.80	0.43
1:0:2819:G:H2'	1:0:2820:C:C6	2.54	0.43
1:0:20:C:H2'	1:0:21:A:C8	2.50	0.42
1:0:26:G:C6	1:0:27:G:C2	3.07	0.42
1:0:73:A:O2'	1:0:74:G:OP2	2.36	0.42
1:0:200:A:H4'	1:0:433:G:O2'	2.19	0.42
1:0:580:A:C4	1:0:2013:A:N6	2.87	0.42
1:0:587:A:O2'	1:0:588:G:H5''	2.18	0.42
1:0:826:U:H5'	1:0:1239:A:H4'	2.00	0.42
1:0:1235:C:C2	1:0:1241:G:C2	3.07	0.42
1:0:1430:G:H2'	1:0:1431:U:H6	1.83	0.42
1:0:1464:A:C2'	1:0:1465:G:O4'	2.50	0.42
1:0:1499:A:C6	1:0:1522:C:N4	2.87	0.42
1:0:1522:C:O2'	1:0:1523:A:H5'	2.19	0.42
1:0:1624:A:C5	1:0:1627:C:C4	3.07	0.42
1:0:1674:C:C2	1:0:1675:C:C5	3.07	0.42
1:0:1703:C:H2'	1:0:1704:G:H8	1.84	0.42
1:0:1794:A:N6	1:0:1814:G:HO2'	2.17	0.42
1:0:1834:G:N2	1:0:1835:C:H1'	2.34	0.42
1:0:1925:C:C6	1:0:1926:U:H5	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2086:U:H6	1:0:2086:U:O5'	2.02	0.42
1:0:2268:G:C5'	1:0:2363:G:O2'	2.66	0.42
1:0:2417:U:O3'	1:0:2419:C:OP1	2.37	0.42
1:0:2473:G:N2	1:0:2474:G:N9	2.67	0.42
1:0:2550:C:H2'	1:0:2551:A:OP1	2.18	0.42
1:0:2613:A:O2'	1:0:2614:A:H5'	2.18	0.42
1:0:2800:C:C5	1:0:2801:A:C8	3.07	0.42
1:0:2808:U:O2	1:0:2808:U:C2'	2.65	0.42
1:0:2813:G:N2	1:0:2856:U:C2	2.87	0.42
1:0:2817:A:C6	1:0:2851:G:C6	3.07	0.42
1:0:58:C:O2	1:0:73:A:C2	2.72	0.42
1:0:73:A:H4'	1:0:74:G:O4'	2.19	0.42
1:0:697:G:N1	1:0:788:G:C5	2.88	0.42
1:0:785:U:O5'	1:0:785:U:H6	2.01	0.42
1:0:1166:A:C2'	1:0:1167:A:H5''	2.49	0.42
1:0:1169:C:C2'	1:0:1170:U:H5'	2.49	0.42
1:0:1236:G:C6	1:0:1238:A:OP1	2.72	0.42
1:0:1242:A:O2'	1:0:1243:G:C5'	2.65	0.42
1:0:1391:A:N7	1:0:1393:G:C5	2.87	0.42
1:0:1407:G:N3	1:0:1408:A:N1	2.67	0.42
1:0:1428:G:O5'	1:0:1428:G:H8	2.02	0.42
1:0:1436:G:O5'	1:0:1436:G:C8	2.72	0.42
1:0:1543:G:H8	1:0:1543:G:O5'	2.01	0.42
1:0:1651:U:H4'	1:0:1652:G:OP1	2.12	0.42
1:0:1652:G:C4	1:0:1653:C:C5	3.07	0.42
1:0:1681:A:OP1	1:0:1682:A:OP2	2.38	0.42
1:0:1714:A:H62	1:0:1715:A:H61	1.65	0.42
1:0:2039:G:C4	1:0:2556:A:C2	3.07	0.42
1:0:2240:C:H2'	1:0:2241:U:H5''	2.00	0.42
1:0:2255:G:C2	1:0:2256:G:C8	3.07	0.42
1:0:2275:U:H2'	1:0:2276:C:OP2	2.19	0.42
1:0:2540:A:H2'	1:0:2541:U:O5'	2.19	0.42
1:0:2645:C:O5'	1:0:2645:C:H6	2.02	0.42
1:0:167:A:N6	1:0:812:G:O2'	2.52	0.42
1:0:177:U:O2	1:0:177:U:C2'	2.67	0.42
1:0:314:G:H2'	1:0:315:G:O4'	2.19	0.42
1:0:398:C:N3	1:0:424:G:O6	2.52	0.42
1:0:447:U:O2'	1:0:448:C:C5	2.70	0.42
1:0:464:G:C4	1:0:469:G:C2	3.07	0.42
1:0:476:G:N2	1:0:697:G:H1'	2.34	0.42
1:0:538:A:C6	1:0:2025:A:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:559:C:H3'	1:0:559:C:C6	2.53	0.42
1:0:698:A:C4'	1:0:700:C:H41	2.30	0.42
1:0:875:G:N2	1:0:876:A:H1'	2.33	0.42
1:0:939:C:C4	1:0:941:U:C5	3.07	0.42
1:0:1089:C:H2'	1:0:1099:A:C1'	2.48	0.42
1:0:1108:U:H2'	1:0:1109:A:C5'	2.42	0.42
1:0:1194:U:H2'	1:0:1195:U:H6	1.84	0.42
1:0:1223:G:N2	1:0:1225:G:N3	2.63	0.42
1:0:1279:G:N2	1:0:1995:G:N9	2.67	0.42
1:0:1368:G:C2	1:0:1369:G:C8	3.07	0.42
1:0:1391:A:H1'	1:0:1392:U:C4	2.54	0.42
1:0:1391:A:C8	1:0:1393:G:N7	2.87	0.42
1:0:1745:C:H2'	1:0:1746:A:O4'	2.19	0.42
1:0:1750:A:N7	1:0:2675:U:H1'	2.34	0.42
1:0:1905:G:C2'	1:0:1906:U:H5'	2.49	0.42
1:0:2018:G:O2'	1:0:2019:C:OP1	2.32	0.42
1:0:2519:C:C5	1:0:2520:A:N7	2.86	0.42
1:0:2598:C:H6	1:0:2598:C:H5''	1.84	0.42
1:0:2727:G:H1	1:0:2734:U:H2'	1.83	0.42
1:0:2762:G:C8	1:0:2762:G:O5'	2.72	0.42
1:0:2867:G:O2'	1:0:2868:G:O5'	2.36	0.42
1:0:79:G:N1	1:0:80:A:C5	2.87	0.42
1:0:192:G:HO2'	1:0:193:A:P	2.43	0.42
1:0:219:G:H22	1:0:232:A:P	2.43	0.42
1:0:320:A:O2'	1:0:340:G:H2'	2.19	0.42
1:0:452:G:C2	1:0:453:U:C2	3.07	0.42
1:0:548:G:N2	1:0:549:G:N9	2.67	0.42
1:0:584:A:H2'	1:0:585:U:C6	2.54	0.42
1:0:697:G:N2	1:0:788:G:C2	2.87	0.42
1:0:736:G:C2'	1:0:737:C:H5'	2.49	0.42
1:0:757:U:C2'	1:0:758:G:H5'	2.49	0.42
1:0:916:U:C4	1:0:917:U:C5	3.07	0.42
1:0:985:G:O2'	1:0:1001:A:N6	2.52	0.42
1:0:1044:U:C4	1:0:2730:A:C2	3.07	0.42
1:0:1052:C:H2'	1:0:1053:G:C8	2.54	0.42
1:0:1151:U:O5'	1:0:1153:A:OP1	2.37	0.42
1:0:1224:A:O5'	1:0:1224:A:C8	2.72	0.42
1:0:1251:G:N2	1:0:1252:C:C2	2.87	0.42
1:0:1569:A:N7	1:0:1571:G:C5	2.87	0.42
1:0:1657:A:H5'	1:0:1657:A:H8	1.85	0.42
1:0:1671:A:C4	1:0:1672:A:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1760:G:C2	1:0:1761:G:C8	3.06	0.42
1:0:1770:U:H5	1:0:1775:A:C8	2.38	0.42
1:0:2043:A:O2'	1:0:2044:G:OP2	2.37	0.42
1:0:2079:A:C2	1:0:2177:U:H1'	2.54	0.42
1:0:2181:A:N3	1:0:2181:A:C2'	2.82	0.42
1:0:2221:G:C6	1:0:2222:U:C5	3.08	0.42
1:0:2388:G:C6	1:0:2389:G:N7	2.88	0.42
1:0:2860:C:H2'	1:0:2861:A:O4'	2.20	0.42
1:0:65:C:H2'	1:0:66:U:H5'	2.00	0.42
1:0:150:A:H2'	1:0:151:G:O4'	2.19	0.42
1:0:239:A:H2'	1:0:240:U:O4'	2.18	0.42
1:0:322:A:C2'	1:0:323:G:OP1	2.67	0.42
1:0:369:C:O5'	1:0:369:C:H6	2.02	0.42
1:0:551:A:C6	1:0:562:G:C6	3.07	0.42
1:0:602:C:C4	1:0:603:C:C5	3.07	0.42
1:0:795:A:H4'	1:0:796:A:O5'	2.19	0.42
1:0:841:G:H22	1:0:2226:A:H5'	1.84	0.42
1:0:844:G:N1	1:0:845:U:C2	2.88	0.42
1:0:1012:A:N7	1:0:1013:G:C4	2.87	0.42
1:0:1285:A:C2	1:0:1634:A:C4	3.07	0.42
1:0:1328:C:N3	1:0:1329:U:C5	2.87	0.42
1:0:1480:G:H2'	1:0:1481:U:O4'	2.19	0.42
1:0:1815:G:H2'	1:0:1816:G:C5'	2.49	0.42
1:0:2200:G:C4	1:0:2201:G:C8	3.08	0.42
1:0:2306:A:C6	1:0:2367:A:C2	3.07	0.42
1:0:2627:G:O5'	1:0:2627:G:H8	2.01	0.42
1:0:2824:C:O2	1:0:2843:A:C8	2.72	0.42
1:0:56:C:O5'	1:0:56:C:H6	2.01	0.42
1:0:67:G:C6	1:0:72:A:N1	2.88	0.42
1:0:71:A:O2'	1:0:72:A:P	2.77	0.42
1:0:222:G:C6	1:0:231:G:C2	3.07	0.42
1:0:298:C:C2'	1:0:299:C:H5'	2.49	0.42
1:0:498:C:N4	1:0:499:G:O6	2.52	0.42
1:0:571:U:O2	1:0:581:A:C4	2.73	0.42
1:0:676:G:O6	1:0:677:G:C6	2.72	0.42
1:0:679:C:H2'	1:0:680:U:C6	2.53	0.42
1:0:717:G:H2'	1:0:739:G:N2	2.31	0.42
1:0:865:A:C2	1:0:938:G:C2	3.07	0.42
1:0:874:A:C4	1:0:929:A:C6	3.08	0.42
1:0:880:C:N4	1:0:881:U:O4	2.53	0.42
1:0:1066:G:H3'	1:0:1067:G:C4'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1285:A:O2'	1:0:1286:U:O5'	2.30	0.42
1:0:1290:A:H2'	1:0:1291:G:C8	2.54	0.42
1:0:1544:A:C8	1:0:1544:A:H3'	2.55	0.42
1:0:1559:G:H8	1:0:1559:G:O5'	2.02	0.42
1:0:1621:C:C5	1:0:1622:G:C5	3.08	0.42
1:0:1780:A:C5	1:0:1781:C:C5	3.07	0.42
1:0:1925:C:H2'	1:0:1926:U:C4	2.54	0.42
1:0:1942:G:C6	1:0:1943:A:C6	3.07	0.42
1:0:2019:C:O2'	1:0:2020:G:H5'	2.18	0.42
1:0:2059:U:O5'	1:0:2059:U:H6	2.02	0.42
1:0:2118:A:H2'	1:0:2119:A:N7	2.34	0.42
1:0:2168:A:H2'	1:0:2169:A:H5'	2.01	0.42
1:0:2209:G:C6	1:0:2210:C:C4	3.07	0.42
1:0:2418:A:C2'	1:0:2565:C:HO2'	2.32	0.42
1:0:2494:C:O2	1:0:2549:G:C2	2.73	0.42
1:0:2597:G:C6	1:0:2598:C:N4	2.88	0.42
1:0:2601:C:C2'	1:0:2602:G:O5'	2.68	0.42
1:0:2621:G:C2	1:0:2622:G:C4	3.07	0.42
1:0:2771:C:O2	1:0:2771:C:H2'	2.20	0.42
1:0:50:G:C2'	1:0:51:A:OP2	2.67	0.42
1:0:59:G:H1'	1:0:73:A:C2	2.53	0.42
1:0:75:C:O2'	1:0:76:C:H5''	2.19	0.42
1:0:222:G:N1	1:0:231:G:N3	2.68	0.42
1:0:333:A:H5'	1:0:351:A:O4'	2.20	0.42
1:0:465:C:HO2'	1:0:467:U:H1'	1.85	0.42
1:0:791:G:C6	1:0:792:U:N3	2.88	0.42
1:0:830:C:O2'	1:0:852:U:OP1	2.38	0.42
1:0:843:G:C4	1:0:2427:A:N6	2.87	0.42
1:0:874:A:C2'	1:0:875:G:H5'	2.50	0.42
1:0:888:G:H2'	1:0:889:C:C6	2.54	0.42
1:0:941:U:O2	1:0:942:U:C6	2.73	0.42
1:0:1287:A:C4	1:0:1315:A:N1	2.88	0.42
1:0:1366:A:N6	1:0:1367:A:N6	2.67	0.42
1:0:1545:G:H2'	1:0:1546:C:O4'	2.18	0.42
1:0:1736:C:C2	1:0:1737:G:N7	2.87	0.42
1:0:1783:G:N1	1:0:1820:G:H1'	2.35	0.42
1:0:1850:G:C2	1:0:1868:A:N7	2.87	0.42
1:0:2037:A:C2	1:0:2595:C:C2	3.07	0.42
1:0:2232:G:H2'	1:0:2233:C:H6	1.85	0.42
1:0:2303:C:O2	1:0:2364:C:C5	2.72	0.42
1:0:2396:C:O2'	1:0:2397:A:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2762:G:C2'	1:0:2763:U:H5'	2.50	0.42
1:0:17:G:C5	1:0:18:U:C4	3.08	0.42
1:0:39:C:H2'	1:0:40:U:H6	1.85	0.42
1:0:55:A:O4'	1:0:125:A:C2	2.73	0.42
1:0:221:A:H2'	1:0:221:A:N3	2.33	0.42
1:0:328:A:H2'	1:0:329:C:C6	2.54	0.42
1:0:403:A:H3'	1:0:403:A:OP2	2.20	0.42
1:0:415:A:H2'	1:0:416:U:C5'	2.49	0.42
1:0:513:A:C2	1:0:515:A:C5	3.07	0.42
1:0:698:A:H5''	1:0:801:A:N6	2.35	0.42
1:0:991:A:C5	1:0:992:A:C2	3.08	0.42
1:0:1058:G:H2'	1:0:1121:G:N2	2.34	0.42
1:0:1357:U:H1'	1:0:1397:A:N3	2.34	0.42
1:0:1512:A:H2'	1:0:1514:C:C5	2.54	0.42
1:0:1631:C:C5	1:0:1633:C:N1	2.87	0.42
1:0:1685:A:C2	1:0:1976:U:N1	2.88	0.42
1:0:1870:U:C4	1:0:1871:G:N7	2.88	0.42
1:0:1976:U:N3	1:0:1977:C:C6	2.87	0.42
1:0:2277:A:C1'	1:0:2300:G:N2	2.83	0.42
1:0:2418:A:O2'	1:0:2566:A:C5'	2.67	0.42
1:0:2557:G:C2	1:0:2558:C:C5	3.08	0.42
1:0:2640:G:H8	1:0:2640:G:OP2	2.02	0.42
1:0:2856:U:C4	1:0:2857:C:C5	3.08	0.42
1:0:51:A:C6	1:0:52:A:C6	3.08	0.42
1:0:58:C:C1'	1:0:72:A:C8	3.01	0.42
1:0:118:U:H5''	1:0:120:G:OP2	2.20	0.42
1:0:118:U:C6	1:0:143:A:C2	3.07	0.42
1:0:566:U:H2'	1:0:567:G:C8	2.51	0.42
1:0:656:U:H5'	1:0:657:A:OP1	2.19	0.42
1:0:923:A:H5''	1:0:924:C:H5''	2.02	0.42
1:0:1033:G:N1	1:0:1151:U:C5	2.88	0.42
1:0:1140:A:N6	1:0:2549:G:H4'	2.35	0.42
1:0:1169:C:C6	1:0:1169:C:C3'	3.03	0.42
1:0:1313:U:O2	1:0:1642:G:N1	2.52	0.42
1:0:1432:G:H8	1:0:1432:G:O5'	2.02	0.42
1:0:1635:G:C2	1:0:1636:G:C4	3.08	0.42
1:0:1648:C:H2'	1:0:1649:A:O5'	2.20	0.42
1:0:1701:C:C2	1:0:1722:G:N2	2.88	0.42
1:0:1815:G:H2'	1:0:1816:G:H5'	2.00	0.42
1:0:1825:C:C4	1:0:1826:U:C5	3.07	0.42
1:0:2073:A:N1	1:0:2209:G:C5	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2426:G:HO2'	1:0:2427:A:P	2.40	0.42
1:0:2484:G:H2'	1:0:2555:G:H1	1.84	0.42
1:0:2749:A:N1	1:0:2750:G:N3	2.68	0.42
1:0:2792:C:C2	1:0:2805:G:N2	2.88	0.42
1:0:67:G:N1	1:0:73:A:C5	2.87	0.42
1:0:174:A:N1	1:0:2409:A:N7	2.68	0.42
1:0:200:A:N7	1:0:435:A:C1'	2.83	0.42
1:0:515:A:O2'	1:0:516:G:H5'	2.20	0.42
1:0:592:G:C2	1:0:593:C:C5	3.07	0.42
1:0:787:A:C2'	1:0:788:G:C5'	2.98	0.42
1:0:827:C:O2'	1:0:828:C:H5'	2.20	0.42
1:0:876:A:O2'	1:0:877:G:H5'	2.20	0.42
1:0:946:U:C2	1:0:947:C:C5	3.07	0.42
1:0:1391:A:N7	1:0:1393:G:C6	2.88	0.42
1:0:1533:G:C5	1:0:1534:A:N7	2.88	0.42
1:0:1583:A:O2'	1:0:1584:G:OP2	2.32	0.42
1:0:1979:C:C2'	1:0:1979:C:O2	2.67	0.42
1:0:2034:A:N6	1:0:2593:A:C8	2.88	0.42
1:0:2035:G:O6	1:0:2597:G:C2	2.73	0.42
1:0:2096:U:H3'	1:0:2097:A:C5'	2.50	0.42
1:0:2229:G:H22	1:0:2475:C:H4'	1.85	0.42
1:0:2278:A:H2'	1:0:2279:G:C8	2.55	0.42
1:0:2350:G:C6	1:0:2351:G:N7	2.88	0.42
1:0:2473:G:N2	1:0:2474:G:N3	2.68	0.42
1:0:2499:C:C2'	1:0:2500:C:H5'	2.50	0.42
1:0:2866:A:H5''	1:0:2867:G:OP1	2.19	0.42
1:0:167:A:C4	1:0:184:A:N3	2.88	0.41
1:0:633:G:H2'	1:0:634:G:O5'	2.20	0.41
1:0:1035:G:C8	1:0:1036:G:C8	3.08	0.41
1:0:1086:C:C3'	1:0:1086:C:C6	3.02	0.41
1:0:1221:C:H2'	1:0:1222:G:C8	2.55	0.41
1:0:1233:A:H8	1:0:1233:A:O5'	2.03	0.41
1:0:1245:G:C2'	1:0:1246:G:H5'	2.50	0.41
1:0:1399:C:C2	1:0:1400:A:C8	3.08	0.41
1:0:1462:C:O2'	1:0:1560:A:H1'	2.19	0.41
1:0:1464:A:H2'	1:0:1465:G:C1'	2.47	0.41
1:0:1695:U:O2'	1:0:1696:C:H5'	2.20	0.41
1:0:2483:U:O5'	1:0:2483:U:H6	2.03	0.41
1:0:2545:A:C2'	1:0:2546:G:OP2	2.68	0.41
1:0:2571:G:N1	1:0:2582:G:C6	2.88	0.41
1:0:2721:A:N6	1:0:2743:G:H1'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2771:C:C2	1:0:2772:U:C6	3.08	0.41
1:0:2838:U:C4	1:0:2839:G:N7	2.88	0.41
1:0:115:G:C5	1:0:117:A:N6	2.88	0.41
1:0:192:G:O2'	1:0:193:A:C4'	2.68	0.41
1:0:198:A:O4'	1:0:210:A:H1'	2.20	0.41
1:0:415:A:O5'	1:0:415:A:H8	2.03	0.41
1:0:494:A:N7	1:0:507:A:H2	2.17	0.41
1:0:496:C:O2'	1:0:497:C:H5'	2.20	0.41
1:0:538:A:H2	1:0:2026:C:H4'	1.84	0.41
1:0:565:A:H8	1:0:565:A:O5'	2.03	0.41
1:0:586:G:C2	1:0:587:A:C2	3.08	0.41
1:0:614:G:N2	1:0:634:G:N2	2.69	0.41
1:0:623:G:C5'	1:0:626:A:H62	2.33	0.41
1:0:867:G:C2	1:0:936:A:C2	3.08	0.41
1:0:1031:C:C2'	1:0:1032:A:OP2	2.68	0.41
1:0:1035:G:H2'	1:0:1036:G:C8	2.55	0.41
1:0:1117:G:H2'	1:0:1118:G:H8	1.83	0.41
1:0:1141:U:N3	1:0:2008:C:H5''	2.35	0.41
1:0:1241:G:C2	1:0:1242:A:C5	3.08	0.41
1:0:1293:A:C2	1:0:1304:U:N3	2.88	0.41
1:0:1355:A:N1	1:0:1358:C:C2	2.88	0.41
1:0:1475:U:O2'	1:0:1476:G:P	2.78	0.41
1:0:1672:A:C2	1:0:1673:C:H1'	2.54	0.41
1:0:1706:A:N7	1:0:1715:A:H2	2.17	0.41
1:0:1945:C:O2'	1:0:1946:U:C5	2.73	0.41
1:0:2198:U:H5''	1:0:2199:C:OP2	2.20	0.41
1:0:2226:A:C2'	1:0:2227:C:O4'	2.68	0.41
1:0:2302:G:N2	1:0:2303:C:C1'	2.83	0.41
1:0:2419:C:O2'	1:0:2420:C:OP1	2.30	0.41
1:0:2573:C:N3	1:0:2574:G:C8	2.88	0.41
1:0:2616:U:H3'	1:0:2616:U:H6	1.84	0.41
1:0:2756:A:N3	1:0:2758:A:C4	2.88	0.41
1:0:2807:U:O2'	1:0:2809:A:C5	2.73	0.41
1:0:136:A:C2'	1:0:137:A:H5'	2.50	0.41
1:0:188:G:C2	1:0:189:A:C8	3.09	0.41
1:0:216:U:OP1	1:0:601:A:N7	2.53	0.41
1:0:219:G:C2'	1:0:220:U:OP2	2.68	0.41
1:0:499:G:C2	1:0:503:G:O6	2.74	0.41
1:0:658:G:H2'	1:0:659:G:H8	1.85	0.41
1:0:698:A:H5'	1:0:801:A:H62	1.84	0.41
1:0:698:A:C5'	1:0:801:A:N6	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:819:C:C2	1:0:820:U:C5	3.08	0.41
1:0:849:G:N7	1:0:850:C:C5	2.88	0.41
1:0:886:A:H2'	1:0:887:G:O4'	2.20	0.41
1:0:956:A:C5	1:0:2427:A:H2	2.38	0.41
1:0:956:A:O2'	1:0:957:G:P	2.78	0.41
1:0:957:G:O2'	1:0:958:G:C5'	2.67	0.41
1:0:991:A:N1	1:0:1146:G:H4'	2.35	0.41
1:0:1007:A:N3	1:0:1008:G:C8	2.88	0.41
1:0:1040:A:H2'	1:0:1041:G:O4'	2.20	0.41
1:0:1077:U:O2	1:0:1079:G:H3'	2.20	0.41
1:0:1151:U:P	1:0:1153:A:OP1	2.78	0.41
1:0:1417:C:H2'	1:0:1418:C:H6	1.85	0.41
1:0:1610:A:C2	1:0:1611:U:C2	3.08	0.41
1:0:1629:G:C4	1:0:1633:C:N3	2.88	0.41
1:0:1658:A:N7	1:0:1659:G:C5	2.88	0.41
1:0:1707:A:C8	1:0:1708:C:C6	3.08	0.41
1:0:1881:U:C2'	1:0:1882:G:H5'	2.50	0.41
1:0:2078:G:N2	1:0:2178:U:H1'	2.36	0.41
1:0:2395:C:H2'	1:0:2396:C:C5'	2.42	0.41
1:0:2409:A:C2'	1:0:2410:U:H5'	2.50	0.41
1:0:2766:U:H2'	1:0:2767:C:H6	1.84	0.41
1:0:2783:U:H2'	1:0:2784:A:O4'	2.20	0.41
1:0:2788:C:O2	1:0:2788:C:H2'	2.20	0.41
1:0:115:G:OP1	1:0:122:G:O6	2.38	0.41
1:0:159:A:C8	1:0:160:C:C5	3.08	0.41
1:0:537:C:C1'	1:0:2759:U:C4	3.04	0.41
1:0:567:G:C2'	1:0:568:G:H5'	2.50	0.41
1:0:813:A:C2	1:0:815:A:C8	3.07	0.41
1:0:929:A:C3'	1:0:930:A:C5'	2.93	0.41
1:0:968:C:H41	1:0:2437:G:C5'	2.33	0.41
1:0:1022:A:C5	1:0:1024:G:C8	3.09	0.41
1:0:1032:A:C8	1:0:1032:A:C3'	3.04	0.41
1:0:1040:A:N7	1:0:1041:G:N7	2.69	0.41
1:0:1045:G:H2'	1:0:1046:U:C6	2.56	0.41
1:0:1139:A:H1'	1:0:2495:G:O2'	2.21	0.41
1:0:1152:C:H2'	1:0:1152:C:O2	2.19	0.41
1:0:1194:U:H2'	1:0:1195:U:C6	2.55	0.41
1:0:1323:G:H2'	1:0:1324:G:O4'	2.20	0.41
1:0:1345:G:N3	1:0:1625:A:N1	2.67	0.41
1:0:1490:U:H2'	1:0:1491:C:H6	1.86	0.41
1:0:1495:G:HO2'	1:0:1496:G:P	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1543:G:H2'	1:0:1544:A:C5'	2.50	0.41
1:0:1648:C:H6	1:0:1648:C:C5'	2.23	0.41
1:0:1713:G:N1	1:0:1714:A:H1'	2.34	0.41
1:0:1749:G:N3	1:0:1749:G:O4'	2.53	0.41
1:0:1825:C:O2'	1:0:1826:U:H5'	2.20	0.41
1:0:1879:G:O2'	1:0:1880:G:H5'	2.21	0.41
1:0:1923:U:O2'	1:0:1924:C:H5	2.03	0.41
1:0:2052:G:O2'	1:0:2053:G:H5'	2.20	0.41
1:0:2106:G:C5	1:0:2107:G:N7	2.89	0.41
1:0:2252:A:N7	1:0:2253:A:N7	2.69	0.41
1:0:2372:A:C2	1:0:2373:C:C2	3.08	0.41
1:0:2407:G:H5'	1:0:2408:G:N3	2.36	0.41
1:0:2429:A:OP1	1:0:2476:A:C8	2.73	0.41
1:0:2733:A:H2'	1:0:2734:U:C5'	2.48	0.41
1:0:2866:A:O3'	1:0:2867:G:O4'	2.38	0.41
1:0:173:A:O2'	1:0:174:A:H5'	2.20	0.41
1:0:189:A:O2'	1:0:190:A:H5'	2.20	0.41
1:0:426:C:O5'	1:0:426:C:H6	2.03	0.41
1:0:471:A:C2	1:0:481:A:C8	3.08	0.41
1:0:488:A:H2'	1:0:489:A:C8	2.56	0.41
1:0:538:A:N7	1:0:2025:A:C6	2.89	0.41
1:0:573:C:O2'	1:0:574:C:H5'	2.20	0.41
1:0:575:U:H2'	1:0:576:A:O4'	2.19	0.41
1:0:758:G:C2	1:0:766:A:C6	3.08	0.41
1:0:759:C:H3'	1:0:759:C:C6	2.55	0.41
1:0:764:A:H2'	1:0:802:A:C2	2.56	0.41
1:0:986:A:N7	1:0:987:G:N7	2.69	0.41
1:0:1263:G:O2'	1:0:1264:C:P	2.78	0.41
1:0:1288:A:N6	1:0:1309:G:C4'	2.83	0.41
1:0:1421:U:H2'	1:0:1422:C:C6	2.56	0.41
1:0:1427:G:OP2	1:0:1428:G:N1	2.54	0.41
1:0:1474:A:C6	1:0:1476:G:C5	3.09	0.41
1:0:1488:G:O2'	1:0:1489:C:P	2.79	0.41
1:0:1614:C:H2'	1:0:1615:C:H6	1.85	0.41
1:0:1652:G:C4	1:0:1653:C:C6	3.08	0.41
1:0:1713:G:C5	1:0:1714:A:C8	3.08	0.41
1:0:1764:A:C8	1:0:1764:A:C3'	3.04	0.41
1:0:2004:U:O2'	1:0:2005:U:OP1	2.32	0.41
1:0:2016:A:C5	1:0:2019:C:C4	3.09	0.41
1:0:2052:G:C2'	1:0:2053:G:H5'	2.51	0.41
1:0:2079:A:O2'	1:0:2080:U:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2169:A:C2'	1:0:2170:C:H5'	2.50	0.41
1:0:2169:A:H2'	1:0:2170:C:H5'	2.03	0.41
1:0:2252:A:C8	1:0:2253:A:C8	3.09	0.41
1:0:2324:G:N2	1:0:2361:G:C2	2.89	0.41
1:0:2418:A:C4'	1:0:2419:C:O5'	2.68	0.41
1:0:2422:C:H2'	1:0:2423:G:C5'	2.51	0.41
1:0:2422:C:H2'	1:0:2423:G:O5'	2.20	0.41
1:0:2438:A:C2	1:0:2439:U:C2	3.09	0.41
1:0:2489:C:C5	1:0:2490:U:C5	3.09	0.41
1:0:2511:G:N2	1:0:2642:G:H1'	2.35	0.41
1:0:2576:G:C5	1:0:2577:A:N6	2.88	0.41
1:0:2616:U:C5	1:0:2617:G:C2	3.08	0.41
1:0:2742:G:H2'	1:0:2743:G:O5'	2.20	0.41
1:0:156:G:C6	1:0:157:G:C5	3.09	0.41
1:0:224:G:H22	1:0:227:G:H3'	1.85	0.41
1:0:246:C:N3	1:0:247:A:C6	2.88	0.41
1:0:414:A:H61	1:0:435:A:H61	1.69	0.41
1:0:442:A:C3'	1:0:443:A:H8	2.33	0.41
1:0:756:C:H2'	1:0:757:U:O4'	2.21	0.41
1:0:759:C:C6	1:0:759:C:C3'	3.03	0.41
1:0:800:U:C5	1:0:804:C:N3	2.87	0.41
1:0:976:C:H1'	1:0:2252:A:N3	2.32	0.41
1:0:1242:A:H2'	1:0:1243:G:C8	2.56	0.41
1:0:1467:U:O2	1:0:1476:G:N2	2.54	0.41
1:0:1666:G:N1	1:0:1992:G:C6	2.89	0.41
1:0:1683:G:N7	1:0:1684:G:C5	2.88	0.41
1:0:1955:G:O2'	1:0:1956:G:H5''	2.21	0.41
1:0:2079:A:H2'	1:0:2080:U:C6	2.55	0.41
1:0:2459:C:H2'	1:0:2460:G:H5'	2.02	0.41
1:0:2492:G:C6	1:0:2553:G:C6	3.09	0.41
1:0:2608:A:C5	1:0:2869:U:C5	3.09	0.41
1:0:2663:U:C4	1:0:2664:G:C8	3.08	0.41
1:0:2679:G:N2	1:0:2687:G:C4	2.89	0.41
1:0:2705:A:C6	1:0:2707:G:C8	3.09	0.41
1:0:2721:A:H61	1:0:2743:G:H1'	1.85	0.41
1:0:2785:A:N7	1:0:2786:G:C8	2.89	0.41
1:0:175:C:C3'	1:0:175:C:C6	3.03	0.41
1:0:533:C:O2	1:0:563:U:O2'	2.37	0.41
1:0:754:G:H2'	1:0:755:C:C6	2.56	0.41
1:0:1220:G:C2'	1:0:1221:C:H5'	2.51	0.41
1:0:1345:G:C5	1:0:1625:A:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1358:C:H2'	1:0:1359:G:H5'	2.02	0.41
1:0:1368:G:N3	1:0:1369:G:C8	2.89	0.41
1:0:1397:A:H1'	1:0:1418:C:O4'	2.21	0.41
1:0:1510:A:H2'	1:0:1511:A:O4'	2.21	0.41
1:0:1535:C:O2	1:0:1536:G:N3	2.53	0.41
1:0:1672:A:H3'	1:0:1673:C:C6	2.55	0.41
1:0:1759:A:C6	1:0:1968:G:O6	2.74	0.41
1:0:1766:U:C2'	1:0:1767:G:C5'	2.93	0.41
1:0:1886:G:C2	1:0:1887:G:C8	3.08	0.41
1:0:1952:A:O3'	1:0:1953:A:O4'	2.38	0.41
1:0:2033:C:C4	1:0:2034:A:C8	3.08	0.41
1:0:2034:A:HO2'	1:0:2035:G:H8	1.60	0.41
1:0:2245:A:C2	1:0:2251:U:H5	2.38	0.41
1:0:2624:G:C4'	1:0:2712:G:O2'	2.60	0.41
1:0:2688:G:C5'	1:0:2689:C:OP2	2.66	0.41
1:0:2764:U:H2'	1:0:2765:C:C6	2.55	0.41
1:0:2784:A:C2	1:0:2865:G:N2	2.89	0.41
1:0:35:G:C1'	1:0:466:A:N3	2.84	0.41
1:0:296:A:N1	1:0:297:A:N6	2.68	0.41
1:0:311:A:H1'	1:0:330:C:H1'	2.03	0.41
1:0:596:C:C4	1:0:684:C:C2	3.08	0.41
1:0:646:C:C4	1:0:647:G:N7	2.88	0.41
1:0:667:U:C2'	1:0:668:A:O5'	2.69	0.41
1:0:934:G:H2'	1:0:935:C:O4'	2.20	0.41
1:0:1073:G:C3'	1:0:1074:G:H5''	2.51	0.41
1:0:1153:A:N3	1:0:1155:G:C5	2.89	0.41
1:0:1199:U:H5	1:0:1201:G:C5	2.39	0.41
1:0:1231:A:N6	1:0:1232:U:H3	2.19	0.41
1:0:1345:G:C5	1:0:1625:A:N6	2.88	0.41
1:0:1433:A:C6	1:0:1434:U:N3	2.89	0.41
1:0:1473:U:H5'	1:0:1474:A:C8	2.56	0.41
1:0:1697:U:O5'	1:0:1697:U:H6	2.04	0.41
1:0:1783:G:H1	1:0:1820:G:H1'	1.86	0.41
1:0:1920:A:C2	1:0:1922:U:C5	3.08	0.41
1:0:1923:U:H4'	1:0:1924:C:OP1	2.19	0.41
1:0:2229:G:OP1	1:0:2254:C:C5	2.74	0.41
1:0:2281:C:N3	1:0:2282:G:N7	2.68	0.41
1:0:2283:G:N2	1:0:2292:C:C2	2.89	0.41
1:0:2505:G:H22	1:0:2517:C:H1'	1.85	0.41
1:0:2619:G:C2	1:0:2620:G:N9	2.89	0.41
1:0:43:A:O2'	1:0:44:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:79:G:H2'	1:0:80:A:H8	1.85	0.41
1:0:131:C:C2'	1:0:132:U:H5'	2.50	0.41
1:0:161:U:O4'	1:0:193:A:H2	2.04	0.41
1:0:172:A:N1	1:0:178:C:C2	2.88	0.41
1:0:176:A:H2'	1:0:2412:A:N6	2.20	0.41
1:0:177:U:C5	1:0:225:G:C2	3.09	0.41
1:0:192:G:C2'	1:0:193:A:H4'	2.51	0.41
1:0:201:G:H2'	1:0:202:A:O4'	2.21	0.41
1:0:246:C:OP2	1:0:373:A:O5'	2.39	0.41
1:0:308:C:H2'	1:0:309:G:O4'	2.21	0.41
1:0:500:G:P	1:0:500:G:C8	3.13	0.41
1:0:500:G:C5	1:0:1297:A:C2	3.08	0.41
1:0:564:U:H2'	1:0:565:A:H8	1.79	0.41
1:0:611:C:O2	1:0:614:G:C4'	2.55	0.41
1:0:620:G:N2	1:0:629:C:C2	2.89	0.41
1:0:632:A:H2	1:0:633:G:C8	2.38	0.41
1:0:687:G:N1	1:0:820:U:O4	2.53	0.41
1:0:687:G:C6	1:0:820:U:O4	2.74	0.41
1:0:753:U:H2'	1:0:754:G:O5'	2.21	0.41
1:0:787:A:O2'	1:0:790:A:N3	2.54	0.41
1:0:972:C:C2	1:0:2014:A:C2	3.09	0.41
1:0:1008:G:C2	1:0:1009:C:C5	3.09	0.41
1:0:1034:U:H2'	1:0:1035:G:H5'	2.01	0.41
1:0:1061:A:O2'	1:0:1062:G:H5'	2.21	0.41
1:0:1150:C:O3'	1:0:1153:A:H5'	2.21	0.41
1:0:1164:C:N3	1:0:1165:G:C4	2.89	0.41
1:0:1172:U:N3	1:0:1173:G:N7	2.69	0.41
1:0:1236:G:H5''	1:0:1237:G:OP2	2.21	0.41
1:0:1272:G:H2'	1:0:1273:G:C8	2.56	0.41
1:0:1288:A:C6	1:0:1309:G:O4'	2.74	0.41
1:0:1356:G:N3	1:0:1397:A:H2	2.18	0.41
1:0:1387:G:C5	1:0:1388:C:C5	3.09	0.41
1:0:1416:A:C2	1:0:1417:C:C2	3.09	0.41
1:0:1544:A:C2	1:0:1545:G:C6	3.09	0.41
1:0:1691:G:H22	1:0:1972:G:H1	1.69	0.41
1:0:1761:G:C5	1:0:1762:C:C5	3.09	0.41
1:0:1782:A:N6	1:0:1820:G:H2'	2.36	0.41
1:0:1790:G:C2'	1:0:1791:C:OP2	2.69	0.41
1:0:1827:G:H1'	1:0:1914:U:O2	2.20	0.41
1:0:2066:G:C5	1:0:2067:U:C4	3.09	0.41
1:0:2084:G:O5'	1:0:2084:G:C8	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2093:G:H4'	1:0:2094:C:OP1	2.21	0.41
1:0:2300:G:H2'	1:0:2301:A:OP1	2.21	0.41
1:0:2303:C:N3	1:0:2364:C:N4	2.69	0.41
1:0:2324:G:N2	1:0:2361:G:C4	2.89	0.41
1:0:2402:U:H4'	1:0:2404:A:C5	2.56	0.41
1:0:2438:A:N6	1:0:2473:G:C6	2.89	0.41
1:0:2498:U:C5	1:0:2520:A:C6	3.09	0.41
1:0:2554:C:O5'	1:0:2554:C:H6	2.04	0.41
1:0:2619:G:C6	1:0:2620:G:N7	2.88	0.41
1:0:2619:G:N1	1:0:2620:G:C5	2.89	0.41
1:0:2633:A:H5''	1:0:2634:G:OP1	2.21	0.41
1:0:2658:A:C5	1:0:2659:C:C5	3.09	0.41
1:0:2680:U:H5''	1:0:2681:A:C5'	2.38	0.41
1:0:2701:A:H2'	1:0:2702:G:C5'	2.50	0.41
1:0:2759:U:H6	1:0:2759:U:C3'	2.33	0.41
1:0:2845:C:H2'	1:0:2846:G:H5'	2.02	0.41
1:0:2856:U:C4	1:0:2857:C:H5	2.39	0.41
1:0:68:C:H1'	1:0:72:A:N3	2.36	0.41
1:0:192:G:O2'	1:0:193:A:H4'	2.21	0.41
1:0:304:A:C3'	1:0:305:A:H5''	2.50	0.41
1:0:328:A:C6	1:0:329:C:C4	3.10	0.41
1:0:333:A:C2	1:0:351:A:N1	2.89	0.41
1:0:333:A:O2'	1:0:350:U:O2	2.37	0.41
1:0:683:A:H5''	1:0:684:C:OP1	2.20	0.41
1:0:689:A:C2	1:0:815:A:N6	2.88	0.41
1:0:757:U:O2	1:0:767:G:N2	2.53	0.41
1:0:885:A:C6	1:0:918:A:C2	3.09	0.41
1:0:926:C:H2'	1:0:926:C:O2	2.21	0.41
1:0:1359:G:C6	1:0:1360:G:N7	2.89	0.41
1:0:1373:G:N7	1:0:1374:G:C8	2.89	0.41
1:0:1391:A:C5	1:0:1393:G:C5	3.08	0.41
1:0:1443:G:N3	1:0:1444:C:C6	2.89	0.41
1:0:1461:C:N4	1:0:1462:C:N4	2.69	0.41
1:0:1465:G:OP1	1:0:1465:G:C4'	2.69	0.41
1:0:1605:A:O2'	1:0:1606:C:H5'	2.21	0.41
1:0:1655:C:H4'	1:0:2689:C:O2	2.21	0.41
1:0:1690:U:HO2'	1:0:1691:G:P	2.43	0.41
1:0:1711:C:O2'	1:0:1712:G:P	2.78	0.41
1:0:1905:G:H2'	1:0:1906:U:H5'	2.01	0.41
1:0:1917:C:O2'	1:0:1918:G:H5'	2.21	0.41
1:0:2218:G:H8	1:0:2218:G:O5'	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2225:G:C8	1:0:2405:A:H2	2.39	0.41
1:0:2547:C:H2'	1:0:2548:G:O5'	2.21	0.41
1:0:2571:G:C2	1:0:2582:G:C6	3.09	0.41
1:0:2829:A:C2	1:0:2830:U:H1'	2.55	0.41
1:0:9:U:O2	1:0:9:U:C2'	2.67	0.40
1:0:563:U:H2'	1:0:564:U:O4'	2.19	0.40
1:0:604:U:C2	1:0:605:G:C8	3.09	0.40
1:0:605:G:C2	1:0:606:A:C5	3.09	0.40
1:0:698:A:N6	1:0:786:U:C2	2.89	0.40
1:0:739:G:C2'	1:0:740:A:OP2	2.70	0.40
1:0:773:G:O2'	1:0:774:A:H5'	2.20	0.40
1:0:832:A:C2	1:0:953:G:N3	2.89	0.40
1:0:891:A:C1'	1:0:911:A:N6	2.84	0.40
1:0:934:G:O2'	1:0:935:C:H5'	2.21	0.40
1:0:1044:U:H5'	1:0:1045:G:P	2.61	0.40
1:0:1112:U:H2'	1:0:1113:C:C6	2.57	0.40
1:0:1325:U:H4'	1:0:1326:U:O5'	2.21	0.40
1:0:1466:C:H2'	1:0:1467:U:C4'	2.50	0.40
1:0:1767:G:C2	1:0:1768:U:C6	3.10	0.40
1:0:1897:C:OP1	1:0:1899:A:N6	2.54	0.40
1:0:2065:A:H2	1:0:2218:G:H1'	1.87	0.40
1:0:2096:U:C3'	1:0:2097:A:H5''	2.51	0.40
1:0:2457:A:C1'	1:0:2508:G:N7	2.84	0.40
1:0:2503:G:H2'	1:0:2504:G:O4'	2.21	0.40
1:0:2503:G:N3	1:0:2721:A:H2	2.19	0.40
1:0:2586:G:N1	1:0:2587:G:C2	2.89	0.40
1:0:2617:G:HO2'	1:0:2618:A:C5'	2.34	0.40
1:0:2807:U:C6	1:0:2807:U:C3'	3.05	0.40
1:0:22:C:H2'	1:0:23:G:O5'	2.22	0.40
1:0:59:G:C4	1:0:73:A:N6	2.89	0.40
1:0:68:C:C6	1:0:72:A:C2	3.09	0.40
1:0:218:A:O2'	1:0:219:G:O5'	2.40	0.40
1:0:349:G:H2'	1:0:350:U:O4'	2.21	0.40
1:0:570:G:H2'	1:0:571:U:H5'	2.04	0.40
1:0:1008:G:N1	1:0:1170:U:C2	2.89	0.40
1:0:1011:A:N6	1:0:1166:A:C8	2.89	0.40
1:0:1029:C:H2'	1:0:1030:U:C1'	2.52	0.40
1:0:1194:U:O2'	1:0:1195:U:C5'	2.69	0.40
1:0:1435:G:N1	1:0:1436:G:N3	2.70	0.40
1:0:1537:U:H2'	1:0:1538:A:O4'	2.21	0.40
1:0:1610:A:C6	1:0:1611:U:C4	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1641:C:N4	1:0:1642:G:C2	2.89	0.40
1:0:1690:U:C2'	1:0:1691:G:C5'	2.94	0.40
1:0:1854:G:H2'	1:0:1855:G:H8	1.86	0.40
1:0:2511:G:C5	1:0:2512:A:C8	3.09	0.40
1:0:2554:C:C3'	1:0:2554:C:C6	3.04	0.40
1:0:2589:C:OP2	1:0:2589:C:H6	2.04	0.40
1:0:2589:C:C5'	1:0:2590:U:H5'	2.34	0.40
1:0:53:G:N2	1:0:54:G:H1'	2.36	0.40
1:0:78:C:O2'	1:0:79:G:H5'	2.22	0.40
1:0:212:U:N3	1:0:443:A:C2	2.89	0.40
1:0:304:A:C2	1:0:356:A:N6	2.89	0.40
1:0:489:A:O5'	1:0:489:A:H8	2.05	0.40
1:0:577:U:O2	1:0:579:G:H8	2.03	0.40
1:0:789:G:O2'	1:0:790:A:O5'	2.40	0.40
1:0:827:C:N4	1:0:828:C:N4	2.69	0.40
1:0:1101:U:H3'	1:0:1101:U:H6	1.85	0.40
1:0:1140:A:C8	1:0:2549:G:C1'	3.00	0.40
1:0:1231:A:N1	1:0:1245:G:C6	2.89	0.40
1:0:1238:A:C6	1:0:1239:A:N1	2.89	0.40
1:0:1259:A:O2'	1:0:1260:A:H5'	2.22	0.40
1:0:1289:A:O2'	1:0:1290:A:H5'	2.21	0.40
1:0:1299:A:N1	1:0:1302:C:C2	2.90	0.40
1:0:1436:G:H2'	1:0:1437:A:O4'	2.21	0.40
1:0:1549:C:H2'	1:0:1550:C:C6	2.57	0.40
1:0:1610:A:H2'	1:0:1611:U:H6	1.87	0.40
1:0:1784:C:H6	1:0:1784:C:O5'	2.04	0.40
1:0:1901:A:C8	1:0:1901:A:O5'	2.74	0.40
1:0:1987:G:C6	1:0:1988:A:C4	3.08	0.40
1:0:2043:A:H1'	1:0:2481:G:N9	2.37	0.40
1:0:2053:G:C6	1:0:2054:A:C6	3.09	0.40
1:0:2073:A:C6	1:0:2209:G:C6	3.09	0.40
1:0:2498:U:C4	1:0:2521:A:N7	2.90	0.40
1:0:2810:A:N1	1:0:2854:G:C8	2.81	0.40
1:0:79:G:O2'	1:0:80:A:H5'	2.21	0.40
1:0:140:G:H2'	1:0:141:G:H8	1.85	0.40
1:0:197:G:O2'	1:0:210:A:N3	2.50	0.40
1:0:855:G:O5'	1:0:855:G:H8	2.02	0.40
1:0:1355:A:O2'	1:0:1357:U:OP2	2.39	0.40
1:0:1360:G:N1	1:0:1361:G:C5	2.90	0.40
1:0:1445:A:C4	1:0:1446:U:C6	3.10	0.40
1:0:1486:A:C2	1:0:1537:U:C2	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1499:A:N1	1:0:1522:C:N4	2.69	0.40
1:0:1621:C:O4'	1:0:1626:A:N7	2.55	0.40
1:0:1628:C:N3	1:0:1629:G:C8	2.89	0.40
1:0:1693:A:H2	1:0:1976:U:OP1	2.04	0.40
1:0:1696:C:C6	1:0:1697:U:C5	3.10	0.40
1:0:1750:A:C2	1:0:1751:A:C5	3.10	0.40
1:0:1777:A:C6	1:0:1921:A:C2	3.09	0.40
1:0:1836:C:C2	1:0:1880:G:N2	2.89	0.40
1:0:1947:G:O2'	1:0:1950:C:OP2	2.31	0.40
1:0:1982:C:H5''	1:0:2703:C:O2'	2.21	0.40
1:0:2070:G:N2	1:0:2212:U:O4'	2.54	0.40
1:0:2137:G:H2'	1:0:2138:U:H6	1.87	0.40
1:0:2217:G:H5'	1:0:2218:G:N7	2.36	0.40
1:0:2300:G:C2'	1:0:2301:A:OP1	2.70	0.40
1:0:2437:G:O2'	1:0:2439:U:O4	2.38	0.40
1:0:2620:G:N3	1:0:2621:G:C8	2.90	0.40
1:0:2700:U:H2'	1:0:2701:A:C8	2.56	0.40
1:0:68:C:N1	1:0:72:A:N3	2.68	0.40
1:0:103:U:H6	1:0:103:U:O5'	2.04	0.40
1:0:163:A:O2'	1:0:164:G:H5'	2.21	0.40
1:0:341:A:N3	1:0:1223:G:N7	2.70	0.40
1:0:559:C:C6	1:0:559:C:C3'	3.04	0.40
1:0:625:A:OP1	1:0:626:A:OP2	2.39	0.40
1:0:762:A:C2	1:0:1634:A:H2'	2.56	0.40
1:0:1129:A:H2'	1:0:1130:U:H6	1.87	0.40
1:0:1172:U:H2'	1:0:1173:G:H8	1.87	0.40
1:0:1211:G:C2	1:0:1212:U:C5	3.09	0.40
1:0:1289:A:C2	1:0:1290:A:N7	2.90	0.40
1:0:1404:C:C2	1:0:1407:G:C6	3.09	0.40
1:0:1441:A:O2'	1:0:1442:C:H5''	2.22	0.40
1:0:1570:C:C2'	1:0:1571:G:OP1	2.69	0.40
1:0:1621:C:C5'	1:0:1626:A:N6	2.85	0.40
1:0:1760:G:O2'	1:0:1761:G:H5'	2.21	0.40
1:0:1820:G:O2'	1:0:1821:A:OP1	2.34	0.40
1:0:1838:G:H2'	1:0:1839:A:H5'	2.02	0.40
1:0:1933:G:N7	1:0:1934:U:C5	2.90	0.40
1:0:2052:G:C6	1:0:2053:G:N7	2.90	0.40
1:0:2226:A:N3	1:0:2227:C:C6	2.90	0.40
1:0:2345:A:O5'	1:0:2345:A:C8	2.65	0.40
1:0:2426:G:H2'	1:0:2427:A:OP2	2.21	0.40
1:0:2441:U:H2'	1:0:2442:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:2633:A:H62	1:0:2646:C:N4	2.19	0.40
1:0:2652:G:C2	1:0:2653:A:C8	3.09	0.40
1:0:2655:C:O2'	1:0:2656:G:H5'	2.21	0.40
1:0:2673:G:N2	1:0:2674:C:N1	2.69	0.40
1:0:2694:G:H2'	1:0:2695:C:H5'	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	0	2757/2880 (95%)	667 (24%)	167 (6%)

All (667) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	0	9	U
1	0	13	A
1	0	14	A
1	0	27	G
1	0	33	C
1	0	34	U
1	0	45	C
1	0	48	A
1	0	49	U
1	0	50	G
1	0	51	A
1	0	59	G
1	0	60	A

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Mol	Chain	Res	Type
1	0	63	A
1	0	69	G
1	0	70	A
1	0	71	A
1	0	72	A
1	0	74	G
1	0	76	C
1	0	82	G
1	0	83	A
1	0	84	G
1	0	87	G
1	0	89	A
1	0	90	G
1	0	99	U
1	0	100	G
1	0	105	G
1	0	106	G
1	0	110	U
1	0	117	A
1	0	118	U
1	0	119	G
1	0	123	A
1	0	124	A
1	0	129	A
1	0	135	U
1	0	143	A
1	0	155	G
1	0	158	A
1	0	167	A
1	0	169	C
1	0	173	A
1	0	174	A
1	0	181	A
1	0	182	G
1	0	193	A
1	0	199	A
1	0	200	A
1	0	205	A
1	0	206	U
1	0	207	U
1	0	210	A
1	0	218	A

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Mol	Chain	Res	Type
1	0	219	G
1	0	225	G
1	0	226	C
1	0	227	G
1	0	229	G
1	0	242	A
1	0	243	G
1	0	245	C
1	0	305	A
1	0	318	G
1	0	323	G
1	0	333	A
1	0	334	G
1	0	335	A
1	0	339	U
1	0	340	G
1	0	341	A
1	0	342	G
1	0	343	A
1	0	344	G
1	0	358	C
1	0	360	A
1	0	362	C
1	0	363	G
1	0	368	A
1	0	373	A
1	0	393	U
1	0	399	G
1	0	400	U
1	0	402	A
1	0	403	A
1	0	404	A
1	0	408	U
1	0	409	G
1	0	414	A
1	0	418	C
1	0	424	G
1	0	455	A
1	0	456	C
1	0	459	A
1	0	460	U
1	0	461	A

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Mol	Chain	Res	Type
1	0	462	G
1	0	463	C
1	0	464	G
1	0	467	U
1	0	484	G
1	0	486	U
1	0	490	A
1	0	491	A
1	0	492	G
1	0	494	A
1	0	495	C
1	0	514	G
1	0	515	A
1	0	517	A
1	0	518	A
1	0	521	U
1	0	537	C
1	0	540	G
1	0	541	C
1	0	542	A
1	0	553	C
1	0	554	U
1	0	555	U
1	0	556	A
1	0	558	G
1	0	572	G
1	0	580	A
1	0	581	A
1	0	582	G
1	0	583	C
1	0	584	A
1	0	587	A
1	0	595	A
1	0	601	A
1	0	602	C
1	0	613	A
1	0	617	U
1	0	624	A
1	0	626	A
1	0	631	G
1	0	632	A
1	0	633	G

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Mol	Chain	Res	Type
1	0	636	G
1	0	638	A
1	0	648	A
1	0	652	C
1	0	654	A
1	0	655	A
1	0	656	U
1	0	657	A
1	0	665	A
1	0	666	U
1	0	667	U
1	0	668	A
1	0	683	A
1	0	684	C
1	0	685	U
1	0	690	A
1	0	699	G
1	0	700	C
1	0	717	G
1	0	726	G
1	0	728	G
1	0	740	A
1	0	741	G
1	0	742	G
1	0	743	A
1	0	752	G
1	0	753	U
1	0	760	U
1	0	761	G
1	0	765	C
1	0	766	A
1	0	775	U
1	0	776	G
1	0	777	A
1	0	778	G
1	0	789	G
1	0	790	A
1	0	795	A
1	0	797	A
1	0	798	G
1	0	801	A
1	0	802	A

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Mol	Chain	Res	Type
1	0	803	C
1	0	805	G
1	0	806	A
1	0	807	A
1	0	813	A
1	0	814	G
1	0	815	A
1	0	818	G
1	0	819	C
1	0	825	C
1	0	832	A
1	0	840	U
1	0	841	G
1	0	843	G
1	0	844	G
1	0	858	G
1	0	859	U
1	0	872	G
1	0	873	U
1	0	874	A
1	0	879	A
1	0	919	U
1	0	922	A
1	0	925	U
1	0	926	C
1	0	927	C
1	0	930	A
1	0	931	G
1	0	938	G
1	0	941	U
1	0	943	U
1	0	944	A
1	0	952	A
1	0	956	A
1	0	957	G
1	0	968	C
1	0	969	U
1	0	970	A
1	0	972	C
1	0	973	U
1	0	984	A
1	0	985	G

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Mol	Chain	Res	Type
1	0	994	A
1	0	995	A
1	0	996	C
1	0	1000	G
1	0	1002	C
1	0	1005	U
1	0	1006	C
1	0	1007	A
1	0	1019	U
1	0	1020	A
1	0	1023	U
1	0	1024	G
1	0	1030	U
1	0	1032	A
1	0	1033	G
1	0	1034	U
1	0	1036	G
1	0	1037	U
1	0	1044	U
1	0	1045	G
1	0	1055	A
1	0	1056	U
1	0	1057	A
1	0	1058	G
1	0	1059	A
1	0	1061	A
1	0	1067	G
1	0	1069	G
1	0	1072	U
1	0	1073	G
1	0	1074	G
1	0	1081	A
1	0	1082	G
1	0	1087	C
1	0	1090	C
1	0	1094	C
1	0	1123	G
1	0	1137	A
1	0	1138	A
1	0	1140	A
1	0	1142	G
1	0	1146	G

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Mol	Chain	Res	Type
1	0	1152	C
1	0	1154	A
1	0	1155	G
1	0	1166	A
1	0	1167	A
1	0	1182	U
1	0	1185	C
1	0	1189	G
1	0	1194	U
1	0	1195	U
1	0	1199	U
1	0	1200	G
1	0	1224	A
1	0	1234	C
1	0	1237	G
1	0	1240	G
1	0	1249	G
1	0	1250	A
1	0	1251	G
1	0	1253	C
1	0	1260	A
1	0	1262	U
1	0	1264	C
1	0	1265	G
1	0	1266	G
1	0	1267	A
1	0	1268	U
1	0	1269	G
1	0	1278	A
1	0	1279	G
1	0	1280	U
1	0	1284	G
1	0	1285	A
1	0	1286	U
1	0	1288	A
1	0	1289	A
1	0	1302	C
1	0	1313	U
1	0	1314	A
1	0	1315	A
1	0	1316	G
1	0	1324	G

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Mol	Chain	Res	Type
1	0	1326	U
1	0	1327	C
1	0	1333	G
1	0	1334	A
1	0	1338	G
1	0	1339	U
1	0	1342	U
1	0	1343	C
1	0	1346	C
1	0	1354	A
1	0	1355	A
1	0	1356	G
1	0	1358	C
1	0	1359	G
1	0	1381	G
1	0	1391	A
1	0	1392	U
1	0	1397	A
1	0	1398	G
1	0	1409	U
1	0	1410	U
1	0	1411	C
1	0	1430	G
1	0	1433	A
1	0	1439	G
1	0	1440	G
1	0	1441	A
1	0	1442	C
1	0	1443	G
1	0	1459	U
1	0	1460	G
1	0	1465	G
1	0	1466	C
1	0	1468	A
1	0	1469	U
1	0	1470	G
1	0	1473	U
1	0	1474	A
1	0	1475	U
1	0	1476	G
1	0	1477	C
1	0	1482	U

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Mol	Chain	Res	Type
1	0	1483	G
1	0	1489	C
1	0	1490	U
1	0	1494	G
1	0	1496	G
1	0	1498	G
1	0	1505	U
1	0	1506	C
1	0	1509	A
1	0	1513	U
1	0	1514	C
1	0	1524	C
1	0	1529	C
1	0	1544	A
1	0	1549	C
1	0	1552	C
1	0	1570	C
1	0	1571	G
1	0	1573	G
1	0	1574	A
1	0	1582	A
1	0	1583	A
1	0	1584	G
1	0	1585	A
1	0	1601	U
1	0	1618	U
1	0	1619	A
1	0	1623	C
1	0	1624	A
1	0	1625	A
1	0	1626	A
1	0	1627	C
1	0	1629	G
1	0	1632	A
1	0	1633	C
1	0	1634	A
1	0	1635	G
1	0	1648	C
1	0	1649	A
1	0	1651	U
1	0	1652	G
1	0	1657	A

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Mol	Chain	Res	Type
1	0	1664	G
1	0	1665	C
1	0	1670	G
1	0	1671	A
1	0	1685	A
1	0	1686	A
1	0	1687	C
1	0	1690	U
1	0	1691	G
1	0	1692	C
1	0	1699	A
1	0	1711	C
1	0	1712	G
1	0	1713	G
1	0	1715	A
1	0	1716	G
1	0	1717	A
1	0	1724	C
1	0	1747	G
1	0	1748	U
1	0	1749	G
1	0	1750	A
1	0	1754	G
1	0	1755	G
1	0	1764	A
1	0	1771	A
1	0	1772	C
1	0	1773	C
1	0	1775	A
1	0	1776	A
1	0	1778	U
1	0	1792	C
1	0	1793	A
1	0	1800	A
1	0	1801	C
1	0	1802	A
1	0	1807	A
1	0	1808	C
1	0	1811	A
1	0	1812	U
1	0	1813	A
1	0	1821	A

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Mol	Chain	Res	Type
1	0	1830	C
1	0	1831	G
1	0	1840	A
1	0	1864	G
1	0	1866	G
1	0	1867	A
1	0	1868	A
1	0	1889	G
1	0	1900	U
1	0	1910	A
1	0	1914	U
1	0	1919	A
1	0	1920	A
1	0	1922	U
1	0	1923	U
1	0	1924	C
1	0	1926	U
1	0	1927	U
1	0	1928	G
1	0	1930	C
1	0	1937	G
1	0	1938	U
1	0	1939	U
1	0	1945	C
1	0	1947	G
1	0	1948	C
1	0	1949	A
1	0	1950	C
1	0	1951	G
1	0	1953	A
1	0	1954	A
1	0	1955	G
1	0	1956	G
1	0	1964	A
1	0	1974	U
1	0	1976	U
1	0	1979	C
1	0	1980	A
1	0	2003	A
1	0	2004	U
1	0	2005	U
1	0	2006	G

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Mol	Chain	Res	Type
1	0	2013	A
1	0	2014	A
1	0	2015	G
1	0	2016	A
1	0	2017	U
1	0	2019	C
1	0	2026	C
1	0	2033	C
1	0	2035	G
1	0	2038	C
1	0	2039	G
1	0	2041	A
1	0	2042	A
1	0	2043	A
1	0	2044	G
1	0	2045	A
1	0	2050	G
1	0	2051	U
1	0	2052	G
1	0	2059	U
1	0	2060	A
1	0	2075	U
1	0	2076	G
1	0	2082	C
1	0	2094	C
1	0	2096	U
1	0	2118	A
1	0	2119	A
1	0	2140	G
1	0	2162	C
1	0	2189	A
1	0	2191	A
1	0	2192	U
1	0	2195	C
1	0	2196	U
1	0	2199	C
1	0	2205	C
1	0	2217	G
1	0	2218	G
1	0	2229	G
1	0	2238	G
1	0	2241	U

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Mol	Chain	Res	Type
1	0	2245	A
1	0	2246	A
1	0	2247	A
1	0	2252	A
1	0	2255	G
1	0	2262	C
1	0	2265	A
1	0	2266	A
1	0	2267	A
1	0	2268	G
1	0	2285	U
1	0	2286	G
1	0	2287	G
1	0	2288	A
1	0	2298	U
1	0	2299	A
1	0	2300	G
1	0	2306	A
1	0	2312	A
1	0	2313	G
1	0	2314	A
1	0	2315	A
1	0	2316	G
1	0	2324	G
1	0	2325	A
1	0	2326	C
1	0	2340	C
1	0	2342	U
1	0	2358	C
1	0	2362	G
1	0	2364	C
1	0	2370	G
1	0	2381	A
1	0	2382	C
1	0	2386	G
1	0	2396	C
1	0	2402	U
1	0	2404	A
1	0	2405	A
1	0	2406	C
1	0	2408	G
1	0	2409	A

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Mol	Chain	Res	Type
1	0	2418	A
1	0	2419	C
1	0	2420	C
1	0	2425	G
1	0	2426	G
1	0	2427	A
1	0	2428	U
1	0	2437	G
1	0	2438	A
1	0	2448	A
1	0	2455	A
1	0	2469	G
1	0	2470	U
1	0	2477	C
1	0	2480	C
1	0	2481	G
1	0	2482	A
1	0	2483	U
1	0	2484	G
1	0	2485	U
1	0	2486	C
1	0	2492	G
1	0	2497	A
1	0	2498	U
1	0	2499	C
1	0	2504	G
1	0	2521	A
1	0	2522	G
1	0	2532	G
1	0	2545	A
1	0	2546	G
1	0	2548	G
1	0	2549	G
1	0	2551	A
1	0	2552	C
1	0	2555	G
1	0	2556	A
1	0	2557	G
1	0	2560	G
1	0	2561	G
1	0	2563	U
1	0	2564	U

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Mol	Chain	Res	Type
1	0	2565	C
1	0	2581	A
1	0	2582	G
1	0	2588	U
1	0	2589	C
1	0	2590	U
1	0	2591	C
1	0	2593	A
1	0	2594	U
1	0	2595	C
1	0	2608	A
1	0	2609	G
1	0	2625	U
1	0	2633	A
1	0	2634	G
1	0	2661	G
1	0	2668	U
1	0	2670	C
1	0	2681	A
1	0	2688	G
1	0	2691	C
1	0	2692	A
1	0	2693	U
1	0	2694	G
1	0	2702	G
1	0	2706	U
1	0	2712	G
1	0	2713	A
1	0	2730	A
1	0	2731	G
1	0	2732	C
1	0	2736	U
1	0	2737	A
1	0	2738	A
1	0	2744	A
1	0	2745	A
1	0	2756	A
1	0	2757	G
1	0	2758	A
1	0	2759	U
1	0	2760	G
1	0	2761	A

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Mol	Chain	Res	Type
1	0	2762	G
1	0	2769	C
1	0	2771	C
1	0	2782	G
1	0	2783	U
1	0	2795	A
1	0	2796	A
1	0	2798	A
1	0	2807	U
1	0	2808	U
1	0	2810	A
1	0	2811	G
1	0	2823	G
1	0	2825	A
1	0	2841	U
1	0	2842	C
1	0	2847	G
1	0	2854	G
1	0	2855	C
1	0	2857	C
1	0	2858	A
1	0	2866	A
1	0	2867	G
1	0	2868	G

All (167) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	0	13	A
1	0	34	U
1	0	50	G
1	0	69	G
1	0	71	A
1	0	73	A
1	0	82	G
1	0	83	A
1	0	117	A
1	0	118	U
1	0	123	A
1	0	173	A
1	0	181	A
1	0	192	G

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Mol	Chain	Res	Type
1	0	218	A
1	0	219	G
1	0	226	C
1	0	242	A
1	0	322	A
1	0	340	G
1	0	342	G
1	0	403	A
1	0	454	G
1	0	458	G
1	0	460	U
1	0	466	A
1	0	468	A
1	0	485	G
1	0	489	A
1	0	516	G
1	0	539	A
1	0	571	U
1	0	580	A
1	0	582	G
1	0	583	C
1	0	596	C
1	0	631	G
1	0	683	A
1	0	699	G
1	0	739	G
1	0	741	G
1	0	764	A
1	0	765	C
1	0	777	A
1	0	789	G
1	0	801	A
1	0	804	C
1	0	805	G
1	0	813	A
1	0	814	G
1	0	843	G
1	0	925	U
1	0	956	A
1	0	972	C
1	0	1000	G
1	0	1019	U

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Mol	Chain	Res	Type
1	0	1033	G
1	0	1141	U
1	0	1154	A
1	0	1194	U
1	0	1223	G
1	0	1233	A
1	0	1249	G
1	0	1260	A
1	0	1261	G
1	0	1263	G
1	0	1265	G
1	0	1266	G
1	0	1278	A
1	0	1279	G
1	0	1301	U
1	0	1313	U
1	0	1314	A
1	0	1315	A
1	0	1325	U
1	0	1326	U
1	0	1333	G
1	0	1337	G
1	0	1338	G
1	0	1342	U
1	0	1345	G
1	0	1354	A
1	0	1355	A
1	0	1391	A
1	0	1407	G
1	0	1459	U
1	0	1475	U
1	0	1488	G
1	0	1495	G
1	0	1626	A
1	0	1631	C
1	0	1632	A
1	0	1633	C
1	0	1634	A
1	0	1651	U
1	0	1664	G
1	0	1670	G
1	0	1684	G

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Mol	Chain	Res	Type
1	0	1685	A
1	0	1686	A
1	0	1690	U
1	0	1691	G
1	0	1698	C
1	0	1710	U
1	0	1711	C
1	0	1716	G
1	0	1723	U
1	0	1749	G
1	0	1772	C
1	0	1775	A
1	0	1777	A
1	0	1791	C
1	0	1820	G
1	0	1913	G
1	0	1919	A
1	0	1921	A
1	0	1923	U
1	0	1938	U
1	0	1947	G
1	0	1963	G
1	0	1975	G
1	0	2004	U
1	0	2005	U
1	0	2013	A
1	0	2015	G
1	0	2016	A
1	0	2018	G
1	0	2050	G
1	0	2059	U
1	0	2093	G
1	0	2161	C
1	0	2204	A
1	0	2217	G
1	0	2228	U
1	0	2245	A
1	0	2254	C
1	0	2261	G
1	0	2311	U
1	0	2314	A
1	0	2404	A

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Mol	Chain	Res	Type
1	0	2418	A
1	0	2426	G
1	0	2427	A
1	0	2428	U
1	0	2469	G
1	0	2482	A
1	0	2497	A
1	0	2498	U
1	0	2521	A
1	0	2560	G
1	0	2589	C
1	0	2592	U
1	0	2594	U
1	0	2633	A
1	0	2660	C
1	0	2668	U
1	0	2693	U
1	0	2705	A
1	0	2706	U
1	0	2756	A
1	0	2758	A
1	0	2760	G
1	0	2810	A
1	0	2823	G
1	0	2824	C
1	0	2848	A
1	0	2867	G

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	$\# Z > 2$
3	G80	0	2881	-	36,36,36	4.14	22 (61%)	55,56,56	2.77	19 (34%)

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
3	G80	0	2881	-	-	1/12/81/81	0/4/4/4

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	0	2881	G80	C12-C11	12.11	1.67	1.55
3	0	2881	G80	C5-C14	10.66	1.64	1.56
3	0	2881	G80	C5-C6	9.24	1.70	1.56
3	0	2881	G80	C10-C11	7.71	1.63	1.56
3	0	2881	G80	C8-C7	5.31	1.64	1.53
3	0	2881	G80	C17-C10	4.83	1.63	1.53
3	0	2881	G80	C7-C6	4.42	1.59	1.53
3	0	2881	G80	C5-C4	4.38	1.63	1.56
3	0	2881	G80	O3-C14	3.87	1.52	1.46
3	0	2881	G80	C8-C9	3.72	1.63	1.54
3	0	2881	G80	C9-C4	3.17	1.66	1.55
3	0	2881	G80	C22-S1	2.98	1.84	1.81
3	0	2881	G80	C9-C10	2.95	1.59	1.56
3	0	2881	G80	C24-C25	2.85	1.60	1.52
3	0	2881	G80	C26-C27	2.57	1.59	1.52
3	0	2881	G80	C27-N1	2.41	1.55	1.47
3	0	2881	G80	C13-C12	2.31	1.59	1.55
3	0	2881	G80	C13-C14	2.22	1.56	1.53
3	0	2881	G80	C1-C9	2.18	1.58	1.54
3	0	2881	G80	C4-C3	2.18	1.56	1.53
3	0	2881	G80	C25-N1	2.14	1.54	1.47
3	0	2881	G80	C12-C19	2.02	1.56	1.52

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	0	2881	G80	C4-C5-C6	-8.57	97.21	106.87
3	0	2881	G80	C12-C11-C10	-7.08	107.83	114.75
3	0	2881	G80	C7-C6-C5	6.30	118.59	111.57
3	0	2881	G80	O3-C21-C22	5.72	119.95	110.52
3	0	2881	G80	C18-C12-C11	5.31	111.80	108.16
3	0	2881	G80	C16-C6-C7	-5.00	103.04	110.33
3	0	2881	G80	C5-C4-C3	4.07	125.19	117.08
3	0	2881	G80	C9-C4-C3	-3.90	96.98	101.86
3	0	2881	G80	O3-C14-C5	3.57	111.87	106.32
3	0	2881	G80	C13-C12-C19	-3.44	103.81	110.83
3	0	2881	G80	C6-C5-C14	3.32	114.38	112.13
3	0	2881	G80	C22-S1-C23	3.19	107.44	101.75
3	0	2881	G80	C27-N1-C25	-3.01	101.89	110.40
3	0	2881	G80	C13-C12-C11	2.98	115.38	112.63
3	0	2881	G80	C17-C10-C11	-2.93	109.84	112.20
3	0	2881	G80	C14-O3-C21	2.82	123.18	118.03
3	0	2881	G80	C2-C1-C9	2.61	108.91	105.63
3	0	2881	G80	C15-C5-C4	2.44	115.87	110.49
3	0	2881	G80	C1-C9-C4	-2.20	98.45	102.53

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	0	2881	G80	O3-C21-C22-S1

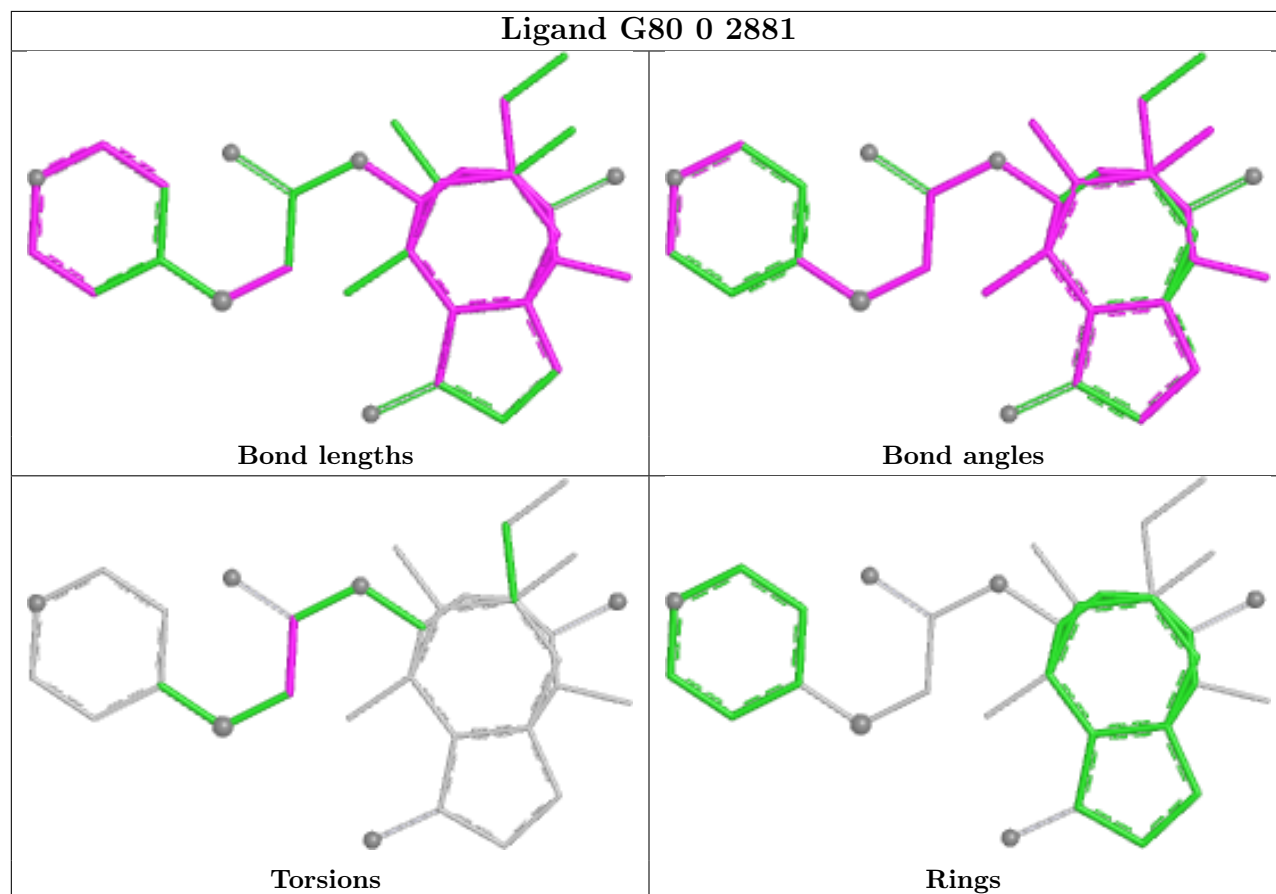
There are no ring outliers.

1 monomer is involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	0	2881	G80	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	0	2766/2880 (96%)	2.74	1531 (55%)  	12, 79, 200, 200	0
2	B	205/211 (97%)	11.52	200 (97%)  	3, 58, 141, 202	0
All	All	2971/3091 (96%)	3.35	1731 (58%)  	3, 77, 200, 202	0

All (1731) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	84	PHE	34.7
2	B	87	ASP	34.7
2	B	2	LYS	34.4
2	B	86	PRO	32.7
2	B	120	TRP	29.4
2	B	60	ASN	28.2
2	B	76	ARG	28.0
2	B	35	GLN	26.7
2	B	32	PRO	25.9
2	B	85	ALA	25.0
2	B	51	TYR	22.2
2	B	193	GLY	22.0
2	B	89	ASP	21.8
2	B	99	GLY	21.2
2	B	88	GLY	21.0
2	B	114	GLN	21.0
2	B	45	GLU	19.7
2	B	83	GLY	19.7
2	B	106	GLY	19.6
2	B	40	GLN	19.4
2	B	94	ASP	19.2
2	B	171	GLU	19.0
2	B	53	PRO	18.8
2	B	134	TRP	18.7

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Mol	Chain	Res	Type	RSRZ
2	B	66	HIS	18.6
2	B	46	ALA	18.3
2	B	82	ARG	18.2
2	B	59	VAL	17.9
1	0	2311	U	17.8
2	B	192	ASN	17.6
1	0	558	G	17.6
2	B	159	HIS	17.5
2	B	146	THR	17.4
2	B	93	VAL	17.4
2	B	70	ALA	17.0
2	B	190	GLY	17.0
2	B	122	PHE	16.7
2	B	143	GLN	16.6
2	B	37	LYS	16.5
1	0	1090	C	16.4
1	0	358	C	16.3
2	B	126	PRO	16.3
2	B	81	PHE	16.3
2	B	61	LYS	16.3
2	B	15	TRP	16.3
2	B	55	ALA	16.0
2	B	63	MET	16.0
2	B	163	GLU	15.9
2	B	151	TYR	15.6
2	B	42	ASP	15.6
2	B	54	LYS	15.5
2	B	38	THR	15.4
2	B	56	GLU	15.2
1	0	1082	G	15.2
2	B	64	GLN	15.1
2	B	33	ILE	15.1
1	0	1083	C	15.0
2	B	62	PRO	14.9
2	B	201	ALA	14.9
2	B	41	THR	14.8
2	B	10	GLY	14.8
2	B	115	GLY	14.8
1	0	248	A	14.7
2	B	202	ALA	14.7
2	B	80	GLU	14.6
2	B	124	GLY	14.5

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Mol	Chain	Res	Type	RSRZ
1	0	2290	A	14.5
2	B	164	ARG	14.3
2	B	113	THR	14.2
2	B	12	THR	13.9
1	0	730	C	13.9
1	0	2783	U	13.8
1	0	940	G	13.8
2	B	123	ALA	13.8
2	B	11	MET	13.8
2	B	152	LYS	13.7
2	B	150	VAL	13.7
2	B	169	ASN	13.6
1	0	2174	G	13.6
1	0	1084	A	13.6
2	B	162	MET	13.5
2	B	67	PHE	13.5
2	B	161	GLY	13.4
2	B	34	VAL	13.4
2	B	191	ALA	13.4
2	B	104	ALA	13.3
2	B	153	GLY	13.1
2	B	69	LYS	13.0
2	B	5	LEU	12.9
1	0	1088	A	12.8
2	B	125	GLY	12.7
2	B	75	THR	12.5
1	0	2140	G	12.5
2	B	194	GLY	12.5
2	B	168	GLN	12.4
1	0	2096	U	12.3
2	B	44	TYR	12.2
2	B	157	ALA	12.2
1	0	1044	U	12.1
2	B	167	VAL	12.1
1	0	2267	A	12.1
1	0	1435	G	12.1
2	B	1	MET	12.1
2	B	156	MET	12.0
2	B	128	SER	11.9
1	0	1847	G	11.9
1	0	2135	C	11.8
2	B	166	THR	11.8

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Mol	Chain	Res	Type	RSRZ
1	0	514	G	11.7
2	B	111	LYS	11.7
2	B	68	ALA	11.7
2	B	144	ARG	11.6
2	B	65	GLY	11.5
2	B	204	ALA	11.5
1	0	304	A	11.5
1	0	2094	C	11.4
2	B	133	LYS	11.3
2	B	77	ILE	11.3
2	B	39	ALA	11.2
2	B	112	GLY	11.1
1	0	1516	A	11.1
1	0	1908	C	11.0
2	B	19	ARG	11.0
1	0	2173	G	10.9
2	B	127	ALA	10.9
2	B	141	ILE	10.9
1	0	102	C	10.9
1	0	1085	G	10.9
2	B	110	GLY	10.8
2	B	137	ARG	10.7
1	0	968	C	10.7
1	0	1812	U	10.6
2	B	73	ALA	10.6
2	B	49	ILE	10.6
2	B	138	PRO	10.6
2	B	22	PRO	10.5
2	B	71	GLY	10.5
1	0	1120	C	10.4
2	B	140	SER	10.4
2	B	50	GLY	10.4
1	0	1086	C	10.3
2	B	160	MET	10.3
1	0	2323	U	10.3
2	B	158	GLY	10.3
1	0	667	U	10.2
1	0	1926	U	10.1
1	0	2770	A	10.1
2	B	203	LYS	10.0
2	B	57	ARG	9.9
1	0	2134	U	9.9

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Mol	Chain	Res	Type	RSRZ
2	B	165	VAL	9.9
2	B	58	LYS	9.9
1	0	373	A	9.8
2	B	135	HIS	9.8
2	B	43	GLY	9.7
2	B	109	LYS	9.7
1	0	2475	C	9.7
1	0	1954	A	9.6
1	0	2769	C	9.6
2	B	200	SER	9.6
1	0	1087	C	9.6
1	0	1071	U	9.6
2	B	205	SER	9.5
1	0	2172	U	9.5
1	0	2095	G	9.4
1	0	1734	C	9.4
1	0	1909	U	9.3
1	0	1907	C	9.2
1	0	2125	C	9.2
2	B	142	GLY	9.2
2	B	154	LYS	9.2
1	0	2778	U	9.1
1	0	2106	G	9.1
1	0	1072	U	9.1
2	B	176	ARG	9.1
1	0	101	A	9.1
1	0	1871	G	9.1
2	B	170	LEU	9.0
1	0	943	U	9.0
1	0	2093	G	8.9
1	0	1031	C	8.9
1	0	1892	C	8.9
2	B	13	GLN	8.9
1	0	1060	C	8.8
1	0	2780	A	8.8
2	B	72	VAL	8.8
1	0	2779	C	8.7
2	B	3	GLY	8.6
1	0	1910	A	8.6
1	0	2327	U	8.6
1	0	803	C	8.6
2	B	108	SER	8.6

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Mol	Chain	Res	Type	RSRZ
1	0	2449	G	8.6
1	0	1897	C	8.6
1	0	1921	A	8.6
1	0	1618	U	8.5
1	0	2291	U	8.5
2	B	16	LYS	8.5
1	0	1893	G	8.5
1	0	2123	G	8.5
1	0	1515	U	8.5
1	0	2124	C	8.4
1	0	1425	G	8.4
1	0	891	A	8.4
1	0	441	A	8.4
1	0	2731	G	8.4
1	0	2589	C	8.3
1	0	2737	A	8.3
1	0	1091	C	8.3
2	B	189	PRO	8.3
2	B	98	GLU	8.2
1	0	1600	U	8.2
1	0	1920	A	8.2
1	0	2581	A	8.2
1	0	1552	C	8.1
2	B	9	ILE	8.1
1	0	969	U	8.1
1	0	2136	G	8.1
2	B	130	GLY	8.1
2	B	107	THR	8.0
1	0	2133	G	8.0
2	B	74	PRO	8.0
2	B	155	ARG	7.9
1	0	788	G	7.9
1	0	2103	G	7.9
1	0	648	A	7.9
1	0	2105	U	7.9
2	B	136	ARG	7.9
1	0	225	G	7.9
1	0	1432	G	7.9
1	0	2015	G	7.9
2	B	184	VAL	7.8
1	0	2109	A	7.8
1	0	1938	U	7.8

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Mol	Chain	Res	Type	RSRZ
1	0	1438	G	7.8
1	0	1497	C	7.8
2	B	8	LYS	7.8
2	B	178	GLY	7.8
1	0	2304	G	7.7
1	0	624	A	7.7
1	0	2381	A	7.7
2	B	17	ASN	7.7
1	0	1733	U	7.7
1	0	1089	C	7.7
2	B	97	ALA	7.7
1	0	401	G	7.6
1	0	1554	G	7.6
2	B	121	ASN	7.6
1	0	1732	U	7.6
1	0	752	G	7.6
1	0	346	C	7.5
1	0	2385	U	7.5
1	0	1153	A	7.5
1	0	2169	A	7.5
2	B	23	VAL	7.5
2	B	149	ARG	7.5
2	B	186	GLY	7.5
1	0	1830	C	7.5
1	0	1037	U	7.4
2	B	179	GLU	7.4
1	0	1602	G	7.4
1	0	913	A	7.4
2	B	79	ARG	7.4
1	0	1889	G	7.4
1	0	1912	G	7.4
1	0	1199	U	7.4
1	0	362	C	7.4
2	B	100	GLU	7.3
1	0	2104	G	7.3
1	0	1922	U	7.3
2	B	103	ASP	7.2
1	0	765	C	7.2
1	0	2170	C	7.2
1	0	1100	G	7.2
2	B	36	ARG	7.2
1	0	1506	C	7.2

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Mol	Chain	Res	Type	RSRZ
1	0	2364	C	7.1
2	B	117	MET	7.1
1	0	2092	U	7.1
2	B	29	GLY	7.1
1	0	1092	U	7.1
1	0	1099	A	7.1
2	B	91	VAL	7.1
1	0	1801	C	7.1
1	0	1019	U	7.1
1	0	1061	A	7.0
1	0	1913	G	7.0
1	0	303	C	7.0
1	0	1917	C	7.0
1	0	2298	U	7.0
1	0	518	A	7.0
1	0	1073	G	7.0
1	0	2164	G	7.0
1	0	2268	G	7.0
1	0	2091	C	7.0
1	0	1429	A	6.9
1	0	1896	A	6.9
1	0	1902	A	6.9
2	B	119	ARG	6.9
1	0	1312	G	6.9
1	0	2361	G	6.9
1	0	2190	A	6.9
1	0	2868	G	6.9
2	B	101	LYS	6.9
2	B	118	LYS	6.8
1	0	1434	U	6.8
1	0	1054	C	6.8
1	0	1111	C	6.8
1	0	789	G	6.8
1	0	1927	U	6.8
2	B	7	THR	6.8
2	B	116	VAL	6.7
1	0	1620	C	6.7
1	0	357	A	6.7
1	0	2194	A	6.7
1	0	1023	U	6.7
1	0	1792	C	6.7
1	0	2309	G	6.7

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Mol	Chain	Res	Type	RSRZ
2	B	147	PRO	6.7
1	0	2160	C	6.7
1	0	434	C	6.7
1	0	400	U	6.6
2	B	195	LEU	6.6
1	0	1062	G	6.6
1	0	1003	C	6.6
1	0	1354	A	6.6
1	0	519	C	6.5
1	0	729	A	6.5
1	0	1925	C	6.5
2	B	139	GLY	6.5
1	0	1067	G	6.5
2	B	177	ALA	6.5
1	0	2167	A	6.4
1	0	2166	G	6.4
1	0	2370	G	6.4
2	B	173	VAL	6.4
2	B	78	LEU	6.4
1	0	1107	A	6.4
1	0	1844	C	6.4
1	0	192	G	6.4
1	0	371	G	6.4
1	0	1894	U	6.4
1	0	1953	A	6.4
1	0	1074	G	6.4
1	0	182	G	6.3
2	B	21	ILE	6.3
1	0	364	G	6.3
1	0	118	U	6.3
1	0	2163	U	6.3
1	0	1081	A	6.3
1	0	1137	A	6.3
2	B	4	ILE	6.3
1	0	1124	U	6.2
1	0	2189	A	6.2
1	0	297	A	6.2
1	0	1001	A	6.2
1	0	2286	G	6.2
1	0	1906	U	6.2
1	0	2284	U	6.2
1	0	1106	A	6.1

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Mol	Chain	Res	Type	RSRZ
1	0	1735	G	6.1
1	0	2443	C	6.1
2	B	199	ARG	6.1
1	0	2450	A	6.1
1	0	559	C	6.1
1	0	1103	C	6.1
1	0	1514	C	6.1
1	0	625	A	6.1
1	0	139	A	6.1
1	0	1895	A	6.1
1	0	2328	G	6.0
1	0	356	A	6.0
1	0	418	C	6.0
1	0	2193	C	6.0
1	0	1104	G	6.0
1	0	668	A	6.0
1	0	2075	U	6.0
1	0	1936	A	5.9
1	0	1110	G	5.9
1	0	1168	G	5.9
1	0	1541	G	5.9
1	0	1093	U	5.9
1	0	927	C	5.9
1	0	2289	A	5.9
1	0	717	G	5.9
1	0	2560	G	5.9
1	0	2195	C	5.9
2	B	187	ALA	5.9
1	0	1864	G	5.9
1	0	2255	G	5.9
1	0	515	A	5.8
1	0	1512	A	5.8
2	B	188	ILE	5.8
1	0	2229	G	5.8
2	B	185	LYS	5.8
1	0	1115	C	5.8
1	0	1623	C	5.8
1	0	90	G	5.8
1	0	741	G	5.8
1	0	1523	A	5.8
1	0	1845	A	5.8
1	0	1440	G	5.8

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Mol	Chain	Res	Type	RSRZ
1	0	2594	U	5.7
1	0	1533	G	5.7
1	0	541	C	5.7
1	0	1068	A	5.7
1	0	175	C	5.7
1	0	1603	A	5.7
1	0	1126	A	5.7
1	0	1555	A	5.7
1	0	1933	G	5.7
1	0	1848	U	5.7
1	0	372	U	5.6
1	0	510	G	5.6
1	0	1442	C	5.6
1	0	1205	G	5.6
1	0	1284	G	5.6
1	0	2137	G	5.6
1	0	2365	U	5.6
1	0	2453	C	5.6
1	0	700	C	5.5
2	B	148	GLY	5.5
1	0	2426	G	5.5
1	0	583	C	5.5
1	0	363	G	5.5
1	0	1841	G	5.5
1	0	638	A	5.5
1	0	1233	A	5.5
1	0	1459	U	5.5
1	0	2265	A	5.5
1	0	2295	C	5.5
1	0	2360	C	5.5
1	0	2330	G	5.5
1	0	2409	A	5.5
1	0	424	G	5.4
1	0	1831	G	5.4
1	0	1874	G	5.4
1	0	2407	G	5.4
1	0	2312	A	5.4
2	B	132	LYS	5.4
2	B	52	ALA	5.4
1	0	1865	C	5.4
1	0	873	U	5.4
1	0	1365	U	5.4

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Mol	Chain	Res	Type	RSRZ
1	0	657	A	5.4
1	0	1866	G	5.4
1	0	2110	G	5.4
2	B	28	ALA	5.4
1	0	160	C	5.4
1	0	2162	C	5.4
1	0	1409	U	5.3
1	0	1125	G	5.3
1	0	1955	G	5.3
1	0	2444	C	5.3
1	0	1594	U	5.3
1	0	72	A	5.3
1	0	672	C	5.3
1	0	194	G	5.3
1	0	389	G	5.3
1	0	458	G	5.3
1	0	292	A	5.3
1	0	50	G	5.2
1	0	359	G	5.2
1	0	1338	G	5.2
1	0	1937	G	5.2
1	0	1903	C	5.2
1	0	1843	U	5.2
1	0	2726	U	5.2
1	0	1670	G	5.2
1	0	2368	G	5.2
1	0	296	A	5.2
1	0	1167	A	5.2
1	0	1525	A	5.2
1	0	656	U	5.1
1	0	1	G	5.1
1	0	671	A	5.1
1	0	967	G	5.1
1	0	1345	G	5.1
1	0	2460	G	5.1
1	0	2555	G	5.1
1	0	2634	G	5.1
2	B	31	CYS	5.1
2	B	90	SER	5.1
1	0	1451	C	5.1
1	0	73	A	5.1
1	0	1078	A	5.1

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Mol	Chain	Res	Type	RSRZ
1	0	344	G	5.1
1	0	1857	G	5.1
1	0	63	A	5.1
1	0	1059	A	5.1
1	0	100	G	5.1
1	0	2186	G	5.1
1	0	1513	U	5.1
1	0	2206	C	5.1
1	0	140	G	5.0
1	0	1058	G	5.0
1	0	2782	G	5.0
2	B	181	LEU	5.0
1	0	2725	C	5.0
2	B	18	ASP	5.0
1	0	388	G	5.0
1	0	805	G	5.0
1	0	1102	G	5.0
1	0	2313	G	5.0
1	0	2854	G	5.0
1	0	1772	C	5.0
1	0	2089	C	5.0
1	0	556	A	5.0
1	0	1863	U	5.0
1	0	2185	U	5.0
1	0	726	G	5.0
1	0	1613	G	5.0
1	0	2867	G	5.0
1	0	1198	C	5.0
1	0	1283	C	5.0
1	0	1540	C	5.0
1	0	2373	C	5.0
1	0	655	A	5.0
1	0	1437	A	5.0
1	0	2168	A	5.0
1	0	1450	G	4.9
1	0	1652	G	4.9
1	0	1849	G	4.9
1	0	2451	G	4.9
1	0	387	A	4.9
1	0	1097	A	4.9
1	0	1582	A	4.9
1	0	1407	G	4.9

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Mol	Chain	Res	Type	RSRZ
1	0	725	C	4.9
1	0	1534	A	4.9
1	0	1128	G	4.9
1	0	1155	G	4.9
1	0	1916	G	4.9
1	0	2852	G	4.9
1	0	2862	G	4.9
2	B	47	VAL	4.9
1	0	200	A	4.8
1	0	414	A	4.8
1	0	1524	C	4.8
1	0	2477	C	4.8
1	0	44	G	4.8
1	0	413	G	4.8
1	0	1098	G	4.8
1	0	2363	G	4.8
1	0	1911	A	4.8
1	0	2310	G	4.8
2	B	20	ALA	4.8
1	0	2564	U	4.8
1	0	124	A	4.8
1	0	242	A	4.8
1	0	797	A	4.8
1	0	1188	A	4.8
1	0	1267	A	4.8
1	0	2120	C	4.8
1	0	2285	U	4.8
1	0	1121	G	4.8
1	0	813	A	4.7
1	0	69	G	4.7
1	0	237	G	4.7
1	0	342	G	4.7
1	0	361	G	4.7
1	0	522	G	4.7
1	0	2139	G	4.7
1	0	1095	A	4.7
1	0	2315	A	4.7
1	0	2730	A	4.7
1	0	1063	C	4.7
1	0	1593	C	4.7
1	0	1598	C	4.7
1	0	2326	C	4.7

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Mol	Chain	Res	Type	RSRZ
1	0	1508	G	4.7
1	0	2078	G	4.7
1	0	425	A	4.7
1	0	1114	A	4.7
1	0	1441	A	4.7
1	0	775	U	4.7
1	0	1601	U	4.7
1	0	360	A	4.7
1	0	1154	A	4.7
1	0	1898	U	4.7
1	0	1967	U	4.7
1	0	2080	U	4.7
1	0	2196	U	4.7
1	0	130	C	4.7
1	0	2072	C	4.7
1	0	172	A	4.6
1	0	642	A	4.6
1	0	1556	A	4.6
2	B	96	PHE	4.6
1	0	1656	U	4.6
1	0	244	C	4.6
1	0	300	C	4.6
1	0	1391	A	4.6
1	0	2077	G	4.6
1	0	2214	G	4.6
1	0	2743	G	4.6
1	0	2366	U	4.6
1	0	2161	C	4.6
1	0	2454	C	4.6
2	B	95	ILE	4.6
1	0	984	A	4.6
1	0	1505	U	4.6
1	0	653	G	4.6
1	0	1557	G	4.6
1	0	1852	G	4.6
1	0	1890	G	4.6
1	0	2750	G	4.6
1	0	1858	C	4.6
1	0	2237	C	4.6
1	0	580	A	4.5
1	0	665	A	4.5
1	0	86	U	4.5

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Mol	Chain	Res	Type	RSRZ
1	0	1030	U	4.5
1	0	1827	G	4.5
1	0	2269	G	4.5
2	B	175	ILE	4.5
1	0	1424	U	4.5
1	0	2118	A	4.5
1	0	2165	A	4.5
1	0	2713	A	4.5
1	0	2774	U	4.5
1	0	2808	U	4.5
1	0	560	G	4.5
1	0	1436	G	4.5
1	0	2378	G	4.5
1	0	2384	G	4.5
1	0	1663	C	4.5
2	B	6	GLY	4.5
1	0	654	A	4.5
1	0	1187	A	4.5
1	0	2795	A	4.5
1	0	238	G	4.5
1	0	1079	G	4.5
1	0	1571	G	4.5
1	0	1834	G	4.5
1	0	2609	G	4.5
1	0	1532	A	4.5
1	0	1002	C	4.4
1	0	1163	C	4.4
1	0	74	G	4.4
1	0	641	G	4.4
1	0	662	G	4.4
1	0	875	G	4.4
1	0	2300	G	4.4
1	0	1665	C	4.4
1	0	687	G	4.4
1	0	818	G	4.4
1	0	1882	G	4.4
1	0	98	U	4.4
1	0	555	U	4.4
1	0	305	A	4.4
1	0	442	A	4.4
1	0	1492	A	4.4
1	0	54	G	4.4

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Mol	Chain	Res	Type	RSRZ
1	0	666	U	4.4
1	0	1393	G	4.4
1	0	1495	G	4.4
1	0	1664	G	4.4
1	0	2275	U	4.4
1	0	1052	C	4.3
1	0	1105	U	4.3
1	0	2192	U	4.3
1	0	1368	G	4.3
1	0	1544	A	4.3
1	0	1932	G	4.3
1	0	2280	A	4.3
1	0	2582	G	4.3
1	0	2692	A	4.3
1	0	85	C	4.3
1	0	2292	C	4.3
1	0	842	A	4.3
1	0	2325	A	4.3
1	0	157	G	4.3
1	0	2021	G	4.3
1	0	332	C	4.3
1	0	1051	U	4.3
1	0	2402	U	4.3
1	0	204	A	4.3
1	0	1069	G	4.3
1	0	1165	G	4.3
1	0	1553	G	4.3
1	0	1888	C	4.3
1	0	2081	U	4.3
1	0	2485	U	4.3
1	0	199	A	4.2
1	0	1139	A	4.2
1	0	2556	A	4.2
1	0	2207	G	4.2
1	0	2324	G	4.2
1	0	2465	G	4.2
1	0	345	U	4.2
1	0	890	U	4.2
1	0	1075	C	4.2
1	0	1835	C	4.2
1	0	2138	U	4.2
1	0	2459	C	4.2

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Mol	Chain	Res	Type	RSRZ
1	0	2476	A	4.2
1	0	164	G	4.2
1	0	1341	G	4.2
1	0	2657	G	4.2
1	0	426	C	4.2
1	0	926	C	4.2
1	0	539	A	4.2
1	0	1138	A	4.2
1	0	1511	A	4.2
1	0	858	G	4.2
1	0	1905	G	4.2
1	0	447	U	4.2
1	0	686	C	4.2
1	0	724	C	4.2
1	0	2305	C	4.2
1	0	995	A	4.2
1	0	1122	A	4.2
1	0	1182	U	4.1
1	0	1900	U	4.1
1	0	1527	G	4.1
1	0	1904	G	4.1
1	0	2392	G	4.1
1	0	298	C	4.1
2	B	129	HIS	4.1
1	0	1946	U	4.1
1	0	2004	U	4.1
1	0	2197	U	4.1
1	0	87	G	4.1
1	0	323	G	4.1
1	0	637	G	4.1
1	0	1070	G	4.1
1	0	2374	C	4.1
1	0	2090	U	4.1
1	0	1053	G	4.1
1	0	1066	G	4.1
1	0	1080	A	4.1
1	0	144	U	4.0
1	0	1181	C	4.0
1	0	1575	C	4.0
1	0	93	A	4.0
1	0	796	A	4.0
1	0	1632	A	4.0

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Mol	Chain	Res	Type	RSRZ
1	0	1964	A	4.0
1	0	79	G	4.0
1	0	1503	G	4.0
1	0	1542	G	4.0
1	0	1803	G	4.0
1	0	2256	G	4.0
1	0	2283	G	4.0
1	0	2349	G	4.0
1	0	1447	U	4.0
1	0	914	C	4.0
1	0	1224	A	4.0
1	0	27	G	4.0
1	0	166	G	4.0
1	0	355	G	4.0
1	0	1117	G	4.0
2	B	180	ASN	4.0
1	0	91	A	4.0
1	0	2097	A	4.0
1	0	2420	C	4.0
1	0	1427	G	4.0
1	0	2562	G	4.0
1	0	302	U	4.0
1	0	2807	U	4.0
1	0	1952	A	3.9
1	0	2404	A	3.9
1	0	652	C	3.9
1	0	2243	C	3.9
1	0	504	G	3.9
1	0	1189	G	3.9
1	0	1357	U	3.9
1	0	2466	G	3.9
1	0	2781	G	3.9
1	0	70	A	3.9
1	0	992	A	3.9
1	0	1604	A	3.9
1	0	1775	A	3.9
1	0	2248	A	3.9
1	0	135	U	3.9
1	0	1770	U	3.9
1	0	1204	G	3.9
1	0	2108	G	3.9
1	0	1158	A	3.9

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Mol	Chain	Res	Type	RSRZ
1	0	1873	A	3.9
1	0	2187	A	3.9
1	0	880	C	3.9
1	0	2074	U	3.9
1	0	2759	U	3.9
1	0	419	G	3.9
1	0	697	G	3.9
1	0	1225	G	3.9
1	0	2279	G	3.9
1	0	1386	A	3.9
1	0	329	C	3.9
1	0	1183	C	3.9
1	0	1530	U	3.8
1	0	309	G	3.8
1	0	1184	G	3.8
1	0	1573	G	3.8
1	0	1579	G	3.8
1	0	1730	G	3.8
1	0	576	A	3.8
1	0	1799	A	3.8
1	0	2253	A	3.8
1	0	299	C	3.8
1	0	1923	U	3.8
1	0	2456	U	3.8
1	0	1931	G	3.8
1	0	1958	G	3.8
1	0	2341	G	3.8
1	0	2851	G	3.8
1	0	461	A	3.8
1	0	970	A	3.8
1	0	1828	C	3.8
1	0	370	U	3.8
1	0	616	U	3.8
1	0	1597	A	3.8
1	0	2278	A	3.8
1	0	121	G	3.8
1	0	623	G	3.8
1	0	751	G	3.8
1	0	844	G	3.8
1	0	872	G	3.8
1	0	987	G	3.8
1	0	1430	G	3.8

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Mol	Chain	Res	Type	RSRZ
1	0	2502	G	3.8
1	0	240	U	3.8
1	0	1108	U	3.8
1	0	1934	U	3.8
2	B	30	PRO	3.8
1	0	731	A	3.7
1	0	1281	A	3.7
1	0	2037	A	3.7
1	0	2119	A	3.7
1	0	649	G	3.7
1	0	1842	G	3.7
1	0	2353	G	3.7
1	0	941	U	3.7
1	0	226	C	3.7
1	0	2358	C	3.7
1	0	149	A	3.7
1	0	1057	A	3.7
1	0	2405	A	3.7
1	0	974	U	3.7
1	0	209	G	3.7
1	0	487	G	3.7
1	0	1186	G	3.7
1	0	2084	G	3.7
1	0	213	C	3.7
1	0	750	C	3.7
1	0	1127	C	3.7
1	0	1877	C	3.7
2	B	14	ILE	3.7
1	0	2171	U	3.7
1	0	234	C	3.7
1	0	661	C	3.7
1	0	1049	C	3.7
1	0	1185	C	3.7
1	0	1501	C	3.7
1	0	1570	C	3.7
1	0	2565	C	3.7
1	0	174	A	3.6
1	0	2301	A	3.6
1	0	1431	U	3.6
1	0	1914	U	3.6
1	0	2359	U	3.6
1	0	744	C	3.6

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Mol	Chain	Res	Type	RSRZ
1	0	2403	C	3.6
1	0	165	G	3.6
1	0	1193	G	3.6
1	0	1065	A	3.6
1	0	1569	A	3.6
1	0	1846	A	3.6
1	0	2188	A	3.6
1	0	2690	A	3.6
1	0	2369	U	3.6
1	0	1522	C	3.6
1	0	2038	C	3.6
1	0	59	G	3.6
1	0	111	G	3.6
1	0	312	G	3.6
1	0	1428	G	3.6
1	0	2503	G	3.6
1	0	77	C	3.6
1	0	722	C	3.6
1	0	878	C	3.6
1	0	631	G	3.6
1	0	1483	G	3.6
1	0	1543	G	3.6
1	0	2388	G	3.6
1	0	2181	A	3.6
1	0	2348	A	3.6
1	0	1038	U	3.6
1	0	1112	U	3.6
1	0	81	C	3.5
1	0	1875	C	3.5
1	0	1118	G	3.5
1	0	2020	G	3.5
1	0	2408	G	3.5
1	0	2468	G	3.5
1	0	2511	G	3.5
1	0	2567	G	3.5
1	0	402	A	3.5
1	0	554	U	3.5
1	0	557	U	3.5
1	0	1055	A	3.5
1	0	1166	A	3.5
1	0	1881	U	3.5
1	0	2345	A	3.5

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Mol	Chain	Res	Type	RSRZ
1	0	2380	U	3.5
2	B	26	VAL	3.5
1	0	829	C	3.5
1	0	2157	C	3.5
1	0	416	U	3.5
1	0	1469	U	3.5
1	0	1595	A	3.5
1	0	1771	A	3.5
1	0	1884	A	3.5
1	0	2455	A	3.5
1	0	191	G	3.5
1	0	699	G	3.5
1	0	773	G	3.5
1	0	1014	G	3.5
1	0	1157	G	3.5
1	0	131	C	3.5
1	0	1862	C	3.5
1	0	2732	C	3.5
1	0	99	U	3.5
1	0	774	A	3.5
1	0	912	A	3.5
1	0	1039	A	3.5
1	0	2277	A	3.5
1	0	105	G	3.5
1	0	1471	G	3.5
1	0	2039	G	3.5
1	0	2832	G	3.5
1	0	417	C	3.5
1	0	526	C	3.5
1	0	745	C	3.5
1	0	972	C	3.5
1	0	1252	C	3.5
1	0	1546	C	3.5
1	0	1891	C	3.5
1	0	824	U	3.4
1	0	835	U	3.4
1	0	321	A	3.4
1	0	874	A	3.4
1	0	1096	A	3.4
1	0	1464	A	3.4
1	0	1919	A	3.4
1	0	399	G	3.4

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Mol	Chain	Res	Type	RSRZ
1	0	505	G	3.4
1	0	540	G	3.4
1	0	1419	G	3.4
1	0	1132	C	3.4
1	0	1701	C	3.4
1	0	51	A	3.4
1	0	879	A	3.4
1	0	75	C	3.4
1	0	66	U	3.4
1	0	1262	U	3.4
1	0	459	A	3.4
1	0	1192	A	3.4
1	0	1468	A	3.4
1	0	1605	A	3.4
1	0	1840	A	3.4
1	0	855	G	3.4
1	0	955	G	3.4
1	0	1041	G	3.4
1	0	1599	G	3.4
1	0	2484	G	3.4
1	0	58	C	3.4
1	0	169	C	3.4
1	0	1064	C	3.4
1	0	1348	C	3.4
1	0	1286	U	3.4
1	0	173	A	3.4
1	0	1872	A	3.4
1	0	2308	A	3.4
1	0	122	G	3.3
1	0	738	G	3.3
1	0	965	G	3.3
1	0	1045	G	3.3
1	0	1131	G	3.3
1	0	1384	G	3.3
1	0	1832	G	3.3
1	0	1951	G	3.3
1	0	2225	G	3.3
1	0	596	C	3.3
1	0	1581	C	3.3
1	0	2816	C	3.3
1	0	994	A	3.3
1	0	1032	A	3.3

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Mol	Chain	Res	Type	RSRZ
1	0	1372	A	3.3
1	0	1935	A	3.3
1	0	47	G	3.3
1	0	170	U	3.3
1	0	2262	C	3.3
2	B	27	LEU	3.3
1	0	333	A	3.3
1	0	1807	A	3.3
1	0	301	C	3.3
1	0	405	C	3.3
1	0	721	C	3.3
1	0	2329	C	3.3
1	0	508	G	3.3
1	0	1246	G	3.3
1	0	1536	G	3.3
1	0	2287	G	3.3
2	B	172	VAL	3.2
1	0	1076	U	3.2
1	0	1156	U	3.2
1	0	1392	U	3.2
1	0	1526	U	3.2
1	0	993	C	3.2
1	0	1876	C	3.2
1	0	2735	C	3.2
1	0	821	A	3.2
1	0	1299	A	3.2
1	0	120	G	3.2
1	0	528	G	3.2
1	0	633	G	3.2
1	0	1000	G	3.2
1	0	1498	G	3.2
1	0	1646	G	3.2
1	0	1823	G	3.2
1	0	1854	G	3.2
1	0	2085	G	3.2
1	0	2132	G	3.2
1	0	154	U	3.2
1	0	871	U	3.2
1	0	1159	U	3.2
1	0	2534	U	3.2
1	0	2666	U	3.2
2	B	196	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
1	0	947	C	3.2
1	0	981	C	3.2
1	0	1531	C	3.2
1	0	1736	C	3.2
1	0	2303	C	3.2
1	0	2695	C	3.2
1	0	1179	A	3.2
1	0	1353	A	3.2
1	0	739	G	3.2
1	0	877	G	3.2
1	0	1470	G	3.2
2	B	197	VAL	3.2
1	0	1232	U	3.2
1	0	96	C	3.2
1	0	911	A	3.2
1	0	1753	A	3.2
1	0	1878	C	3.2
1	0	2768	C	3.2
1	0	570	G	3.2
1	0	836	G	3.2
1	0	931	G	3.2
1	0	938	G	3.2
1	0	2400	G	3.2
1	0	365	U	3.2
2	B	102	ILE	3.1
1	0	483	A	3.1
1	0	553	C	3.1
1	0	863	C	3.1
1	0	1572	C	3.1
1	0	2427	A	3.1
1	0	2595	C	3.1
1	0	2767	C	3.1
2	B	105	THR	3.1
2	B	131	SER	3.1
1	0	134	G	3.1
1	0	171	G	3.1
1	0	421	G	3.1
1	0	1360	G	3.1
1	0	1488	G	3.1
1	0	2018	G	3.1
1	0	2036	G	3.1
1	0	2250	G	3.1

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Mol	Chain	Res	Type	RSRZ
1	0	2379	G	3.1
1	0	1048	U	3.1
1	0	2005	U	3.1
1	0	930	A	3.1
1	0	2266	A	3.1
1	0	1094	C	3.1
1	0	2362	G	3.1
1	0	2712	G	3.1
1	0	2727	G	3.1
1	0	1467	U	3.1
1	0	1856	U	3.1
1	0	60	A	3.1
1	0	542	A	3.1
1	0	787	A	3.1
1	0	2397	A	3.1
1	0	148	C	3.1
1	0	948	C	3.1
1	0	1590	C	3.1
1	0	1687	C	3.1
1	0	2478	C	3.1
1	0	12	U	3.1
1	0	334	G	3.1
1	0	951	G	3.1
1	0	2071	G	3.1
1	0	2297	G	3.1
1	0	343	A	3.1
1	0	990	A	3.1
1	0	1860	A	3.1
1	0	2079	A	3.1
1	0	527	C	3.1
1	0	2274	C	3.1
1	0	1804	U	3.0
1	0	2583	U	3.0
1	0	95	G	3.0
1	0	630	G	3.0
1	0	658	G	3.0
1	0	843	G	3.0
1	0	985	G	3.0
1	0	1249	G	3.0
2	B	24	THR	3.0
1	0	2810	A	3.0
1	0	651	C	3.0

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Mol	Chain	Res	Type	RSRZ
1	0	1606	C	3.0
1	0	1797	C	3.0
1	0	2184	C	3.0
1	0	579	G	3.0
1	0	728	G	3.0
1	0	1047	G	3.0
1	0	1196	G	3.0
1	0	2001	G	3.0
1	0	2773	G	3.0
1	0	1162	A	3.0
1	0	1416	A	3.0
1	0	2045	A	3.0
1	0	2520	A	3.0
1	0	2577	A	3.0
1	0	2684	A	3.0
1	0	37	C	3.0
1	0	1364	C	3.0
1	0	1411	C	3.0
1	0	293	U	3.0
1	0	153	A	3.0
1	0	367	G	3.0
1	0	822	G	3.0
1	0	949	G	3.0
1	0	1024	G	3.0
1	0	1499	A	3.0
1	0	1577	G	3.0
1	0	1751	A	3.0
1	0	1899	A	3.0
1	0	2636	A	3.0
1	0	94	C	3.0
1	0	1164	C	3.0
1	0	1661	C	3.0
1	0	2788	C	3.0
1	0	1213	U	3.0
1	0	1473	U	3.0
1	0	1482	U	3.0
1	0	2251	U	3.0
1	0	511	A	2.9
1	0	964	A	2.9
1	0	1901	A	2.9
1	0	433	G	2.9
1	0	933	G	2.9

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Mol	Chain	Res	Type	RSRZ
1	0	1050	G	2.9
1	0	1439	G	2.9
1	0	2076	G	2.9
1	0	2107	G	2.9
1	0	2209	G	2.9
1	0	317	U	2.9
1	0	834	A	2.9
1	0	2014	A	2.9
2	B	48	GLN	2.9
1	0	319	G	2.9
1	0	989	G	2.9
1	0	1371	G	2.9
1	0	2202	G	2.9
1	0	2642	G	2.9
1	0	830	C	2.9
1	0	1253	C	2.9
1	0	1853	C	2.9
1	0	103	U	2.9
1	0	2270	U	2.9
1	0	777	A	2.9
1	0	1250	A	2.9
1	0	1379	A	2.9
1	0	217	U	2.9
1	0	331	U	2.9
1	0	369	C	2.9
1	0	881	U	2.9
1	0	1016	C	2.9
1	0	452	G	2.9
1	0	1056	U	2.9
1	0	1176	U	2.9
1	0	1206	G	2.9
1	0	1402	G	2.9
1	0	1426	U	2.9
1	0	1633	C	2.9
1	0	1641	C	2.9
1	0	1559	G	2.9
1	0	1749	G	2.9
1	0	1855	G	2.9
1	0	1947	G	2.9
1	0	1987	G	2.9
1	0	2203	G	2.9
1	0	2316	G	2.9

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Mol	Chain	Res	Type	RSRZ
1	0	2394	G	2.9
1	0	2533	U	2.9
1	0	2711	G	2.9
1	0	2840	U	2.9
1	0	2159	A	2.8
1	0	2623	A	2.8
1	0	2249	U	2.8
1	0	2082	C	2.8
1	0	119	G	2.8
1	0	406	G	2.8
1	0	485	G	2.8
1	0	516	G	2.8
1	0	767	G	2.8
1	0	1033	G	2.8
1	0	1622	G	2.8
1	0	2346	G	2.8
1	0	2389	G	2.8
1	0	490	A	2.8
1	0	643	A	2.8
1	0	966	A	2.8
1	0	2175	A	2.8
1	0	2512	A	2.8
1	0	917	U	2.8
1	0	2322	U	2.8
1	0	2410	U	2.8
1	0	236	C	2.8
1	0	391	C	2.8
1	0	804	C	2.8
1	0	1455	C	2.8
1	0	1517	C	2.8
1	0	1765	C	2.8
1	0	620	G	2.8
1	0	887	G	2.8
1	0	957	G	2.8
1	0	1123	G	2.8
1	0	1266	G	2.8
1	0	2351	G	2.8
1	0	443	A	2.8
1	0	1020	A	2.8
1	0	1538	A	2.8
1	0	2448	A	2.8
1	0	408	U	2.8

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Mol	Chain	Res	Type	RSRZ
1	0	1101	U	2.8
1	0	1313	U	2.8
1	0	1547	U	2.8
1	0	2000	U	2.8
1	0	2841	U	2.8
1	0	420	C	2.8
1	0	1829	C	2.8
1	0	2628	C	2.8
1	0	742	G	2.8
1	0	1223	G	2.8
1	0	1617	G	2.8
1	0	2532	G	2.8
1	0	601	A	2.8
1	0	865	A	2.8
1	0	1046	U	2.8
1	0	2607	C	2.7
1	0	11	G	2.7
1	0	36	G	2.7
1	0	243	G	2.7
1	0	352	G	2.7
1	0	733	G	2.7
1	0	1042	G	2.7
1	0	1642	G	2.7
1	0	1963	G	2.7
1	0	2522	G	2.7
1	0	2546	G	2.7
1	0	2694	G	2.7
1	0	247	A	2.7
1	0	491	A	2.7
1	0	1203	A	2.7
1	0	1630	A	2.7
1	0	1988	A	2.7
1	0	2012	A	2.7
1	0	1077	U	2.7
1	0	1452	U	2.7
1	0	495	C	2.7
1	0	1945	C	2.7
1	0	2263	C	2.7
1	0	584	A	2.7
1	0	929	A	2.7
1	0	1279	G	2.7
1	0	1300	A	2.7

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Mol	Chain	Res	Type	RSRZ
1	0	1374	G	2.7
1	0	1742	G	2.7
1	0	1861	G	2.7
1	0	1969	G	2.7
1	0	2013	A	2.7
1	0	2331	A	2.7
1	0	397	U	2.7
1	0	2853	U	2.7
1	0	398	C	2.7
1	0	497	C	2.7
1	0	1152	C	2.7
1	0	2431	C	2.7
1	0	123	A	2.7
1	0	210	A	2.7
1	0	1109	A	2.7
1	0	1707	A	2.7
1	0	2117	A	2.7
1	0	2729	A	2.7
1	0	141	G	2.7
1	0	366	U	2.7
1	0	647	G	2.7
1	0	812	G	2.7
1	0	866	U	2.7
1	0	1130	U	2.7
1	0	1325	U	2.7
1	0	1502	G	2.7
1	0	1738	U	2.7
1	0	1790	G	2.7
1	0	2469	G	2.7
1	0	223	C	2.7
1	0	1347	C	2.7
1	0	1836	C	2.7
1	0	1966	C	2.7
1	0	2686	C	2.7
1	0	167	A	2.6
1	0	885	A	2.6
1	0	922	A	2.6
1	0	1021	A	2.6
1	0	617	U	2.6
1	0	753	U	2.6
1	0	839	U	2.6
1	0	1177	U	2.6

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Mol	Chain	Res	Type	RSRZ
1	0	2563	U	2.6
1	0	17	G	2.6
1	0	340	G	2.6
1	0	776	G	2.6
1	0	861	G	2.6
1	0	1995	G	2.6
1	0	2044	G	2.6
1	0	2548	G	2.6
1	0	2610	G	2.6
1	0	2638	G	2.6
1	0	1404	C	2.6
1	0	1615	C	2.6
1	0	2242	C	2.6
1	0	2547	C	2.6
1	0	2771	C	2.6
1	0	435	A	2.6
1	0	513	A	2.6
1	0	999	A	2.6
1	0	2633	A	2.6
1	0	177	U	2.6
1	0	206	U	2.6
1	0	823	U	2.6
1	0	2086	U	2.6
1	0	2088	U	2.6
1	0	2198	U	2.6
1	0	2428	U	2.6
1	0	2626	U	2.6
1	0	531	G	2.6
1	0	568	G	2.6
1	0	2122	G	2.6
1	0	2261	G	2.6
1	0	889	C	2.6
1	0	1380	C	2.6
1	0	1477	C	2.6
1	0	1558	C	2.6
1	0	2281	C	2.6
1	0	2486	C	2.6
1	0	1226	A	2.6
1	0	1859	A	2.6
1	0	2191	A	2.6
1	0	2675	U	2.6
1	0	2872	U	2.6

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Mol	Chain	Res	Type	RSRZ
1	0	67	G	2.6
1	0	980	G	2.6
1	0	1317	G	2.6
1	0	1377	G	2.6
1	0	1737	G	2.6
1	0	1376	C	2.6
1	0	1989	C	2.6
1	0	2199	C	2.6
1	0	310	A	2.6
1	0	702	A	2.6
1	0	886	A	2.6
1	0	1040	A	2.6
1	0	1474	A	2.6
1	0	1839	A	2.6
1	0	925	U	2.6
1	0	1410	U	2.6
1	0	734	G	2.5
1	0	953	G	2.5
1	0	1520	G	2.5
1	0	1806	G	2.5
1	0	864	C	2.5
1	0	1029	C	2.5
1	0	1456	C	2.5
1	0	1472	C	2.5
1	0	2244	C	2.5
1	0	2399	C	2.5
1	0	2535	C	2.5
1	0	18	U	2.5
1	0	512	A	2.5
1	0	693	A	2.5
1	0	986	A	2.5
1	0	1004	A	2.5
1	0	1362	A	2.5
1	0	2497	A	2.5
1	0	2848	A	2.5
1	0	793	G	2.5
1	0	2083	G	2.5
1	0	2527	G	2.5
1	0	2806	G	2.5
1	0	235	C	2.5
1	0	429	C	2.5
1	0	537	C	2.5

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Mol	Chain	Res	Type	RSRZ
1	0	2395	C	2.5
1	0	698	A	2.5
1	0	1282	A	2.5
1	0	1800	A	2.5
1	0	2568	A	2.5
1	0	2809	A	2.5
1	0	113	C	2.5
1	0	162	C	2.5
1	0	2158	C	2.5
1	0	2833	C	2.5
1	0	349	G	2.5
1	0	469	G	2.5
1	0	612	G	2.5
1	0	1850	G	2.5
1	0	1879	G	2.5
1	0	2344	G	2.5
2	B	174	GLU	2.5
1	0	727	U	2.5
1	0	1769	U	2.5
1	0	2452	U	2.5
1	0	239	A	2.5
1	0	428	A	2.5
1	0	1457	A	2.5
1	0	1510	A	2.5
1	0	2306	A	2.5
2	B	92	ASN	2.5
1	0	46	C	2.4
1	0	78	C	2.4
1	0	550	C	2.4
1	0	1950	C	2.4
1	0	1979	C	2.4
1	0	2445	C	2.4
1	0	92	U	2.4
1	0	1870	U	2.4
1	0	2869	U	2.4
1	0	152	G	2.4
1	0	351	A	2.4
1	0	499	G	2.4
1	0	1747	G	2.4
1	0	1761	G	2.4
1	0	1867	A	2.4
1	0	2350	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	0	2514	G	2.4
1	0	2746	G	2.4
1	0	4	C	2.4
1	0	422	C	2.4
1	0	440	U	2.4
1	0	800	U	2.4
1	0	1688	U	2.4
1	0	2669	C	2.4
1	0	89	A	2.4
1	0	341	A	2.4
1	0	1574	A	2.4
1	0	1997	A	2.4
1	0	2040	A	2.4
1	0	2372	A	2.4
1	0	2714	A	2.4
1	0	82	G	2.4
1	0	197	G	2.4
1	0	663	G	2.4
1	0	778	G	2.4
1	0	1254	G	2.4
1	0	1361	G	2.4
1	0	2259	G	2.4
1	0	49	U	2.4
1	0	585	U	2.4
1	0	1116	U	2.4
1	0	1446	U	2.4
1	0	2719	U	2.4
1	0	2766	U	2.4
1	0	76	C	2.4
1	0	432	C	2.4
1	0	1549	C	2.4
1	0	1795	C	2.4
1	0	2205	C	2.4
1	0	2419	C	2.4
1	0	328	A	2.4
1	0	2204	A	2.4
1	0	2756	A	2.4
1	0	88	G	2.4
1	0	673	G	2.4
1	0	754	G	2.4
1	0	888	G	2.4
1	0	1269	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	0	1496	G	2.4
1	0	2053	G	2.4
1	0	2231	G	2.4
1	0	2529	G	2.4
1	0	2619	G	2.4
1	0	1197	U	2.3
1	0	2590	U	2.3
1	0	8	A	2.3
1	0	228	A	2.3
1	0	407	A	2.3
1	0	683	A	2.3
1	0	975	C	2.3
1	0	1134	C	2.3
1	0	1715	A	2.3
1	0	2715	C	2.3
1	0	2824	C	2.3
1	0	2860	C	2.3
1	0	2877	A	2.3
1	0	634	G	2.3
1	0	928	G	2.3
1	0	1028	G	2.3
1	0	1763	G	2.3
1	0	2201	G	2.3
1	0	2238	G	2.3
1	0	2528	G	2.3
1	0	62	U	2.3
1	0	2121	U	2.3
1	0	2471	U	2.3
1	0	1113	C	2.3
1	0	2550	C	2.3
1	0	2552	C	2.3
1	0	2861	A	2.3
1	0	108	G	2.3
1	0	841	G	2.3
1	0	1241	G	2.3
1	0	1662	G	2.3
1	0	1968	G	2.3
1	0	2474	G	2.3
1	0	2823	G	2.3
1	0	211	U	2.3
1	0	1349	A	2.3
1	0	1607	A	2.3

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Mol	Chain	Res	Type	RSRZ
1	0	2252	A	2.3
1	0	2745	A	2.3
1	0	456	C	2.3
1	0	615	C	2.3
1	0	1009	C	2.3
1	0	1731	C	2.3
1	0	2276	C	2.3
1	0	409	G	2.3
1	0	610	G	2.3
1	0	694	G	2.3
1	0	932	G	2.3
1	0	1880	G	2.3
1	0	2010	G	2.3
1	0	2724	G	2.3
1	0	294	U	2.3
1	0	348	U	2.3
1	0	2087	U	2.3
1	0	2178	U	2.3
1	0	2704	U	2.3
1	0	795	A	2.3
1	0	1022	A	2.3
1	0	1408	A	2.3
1	0	2658	A	2.3
1	0	1415	C	2.3
1	0	1948	C	2.3
1	0	2321	C	2.3
1	0	2740	C	2.3
1	0	138	G	2.2
1	0	142	U	2.2
1	0	219	G	2.2
1	0	645	G	2.2
1	0	782	U	2.2
1	0	857	U	2.2
1	0	988	G	2.2
1	0	1015	U	2.2
1	0	1394	G	2.2
1	0	1403	U	2.2
1	0	1537	U	2.2
1	0	1562	G	2.2
1	0	1928	G	2.2
1	0	2057	U	2.2
1	0	2617	G	2.2

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Mol	Chain	Res	Type	RSRZ
1	0	2707	G	2.2
1	0	838	A	2.2
1	0	862	A	2.2
1	0	956	A	2.2
1	0	1043	A	2.2
1	0	2467	A	2.2
1	0	2645	C	2.2
1	0	155	G	2.2
1	0	2375	G	2.2
1	0	2393	G	2.2
1	0	2424	G	2.2
1	0	2697	G	2.2
1	0	2760	G	2.2
1	0	2804	G	2.2
1	0	2837	G	2.2
1	0	613	A	2.2
1	0	1463	A	2.2
1	0	1802	A	2.2
1	0	2043	A	2.2
1	0	2357	A	2.2
1	0	2569	A	2.2
1	0	2639	A	2.2
1	0	295	C	2.2
1	0	446	C	2.2
1	0	2842	C	2.2
1	0	2875	C	2.2
1	0	313	U	2.2
1	0	1326	U	2.2
1	0	116	A	2.2
1	0	445	A	2.2
1	0	677	G	2.2
1	0	791	G	2.2
1	0	1211	G	2.2
1	0	1285	A	2.2
1	0	1287	A	2.2
1	0	1288	A	2.2
1	0	1356	G	2.2
1	0	1476	G	2.2
1	0	2220	A	2.2
1	0	2230	G	2.2
1	0	2687	G	2.2
1	0	2701	A	2.2

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Mol	Chain	Res	Type	RSRZ
1	0	2784	A	2.2
1	0	33	C	2.2
1	0	935	C	2.2
1	0	976	C	2.2
1	0	1169	C	2.2
1	0	1343	C	2.2
1	0	1773	C	2.2
1	0	1982	C	2.2
1	0	2396	C	2.2
1	0	2406	C	2.2
1	0	792	U	2.1
1	0	852	U	2.1
1	0	1119	U	2.1
1	0	1475	U	2.1
1	0	1500	U	2.1
1	0	2588	U	2.1
1	0	2856	U	2.1
1	0	1619	A	2.1
1	0	107	G	2.1
1	0	548	G	2.1
1	0	732	G	2.1
1	0	854	G	2.1
1	0	1298	G	2.1
1	0	1382	G	2.1
1	0	1545	G	2.1
1	0	2606	G	2.1
1	0	2480	C	2.1
1	0	2790	C	2.1
1	0	132	U	2.1
1	0	1202	U	2.1
1	0	1413	U	2.1
1	0	1485	U	2.1
1	0	1939	U	2.1
1	0	2318	U	2.1
1	0	168	A	2.1
1	0	802	A	2.1
1	0	1486	A	2.1
1	0	2054	A	2.1
1	0	2551	A	2.1
1	0	1174	G	2.1
1	0	1519	G	2.1
1	0	1691	G	2.1

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Mol	Chain	Res	Type	RSRZ
1	0	2302	G	2.1
1	0	2786	G	2.1
1	0	19	C	2.1
1	0	998	C	2.1
1	0	1178	C	2.1
1	0	1311	C	2.1
1	0	1550	C	2.1
1	0	1779	C	2.1
1	0	2028	C	2.1
1	0	2703	C	2.1
1	0	2836	U	2.1
1	0	48	A	2.1
1	0	536	A	2.1
1	0	618	A	2.1
1	0	2352	A	2.1
1	0	2391	A	2.1
1	0	68	C	2.1
1	0	327	C	2.1
1	0	603	C	2.1
1	0	851	C	2.1
1	0	937	C	2.1
1	0	1375	C	2.1
1	0	306	G	2.1
1	0	1373	G	2.1
1	0	1838	G	2.1
1	0	2282	G	2.1
1	0	2319	G	2.1
1	0	2742	G	2.1
1	0	2793	G	2.1
1	0	534	U	2.1
1	0	1005	U	2.1
1	0	1723	U	2.1
1	0	320	A	2.0
1	0	1321	A	2.0
1	0	1445	A	2.0
1	0	2288	A	2.0
1	0	2738	A	2.0
1	0	427	C	2.0
1	0	465	C	2.0
1	0	1529	C	2.0
1	0	2747	C	2.0
1	0	1322	G	2.0

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Mol	Chain	Res	Type	RSRZ
1	0	1644	G	2.0
1	0	2587	G	2.0
1	0	2702	G	2.0
1	0	837	U	2.0
1	0	1195	U	2.0
1	0	1490	U	2.0
1	0	2458	U	2.0
1	0	2789	U	2.0
1	0	117	A	2.0
1	0	190	A	2.0
1	0	403	A	2.0
1	0	1129	A	2.0
1	0	1507	A	2.0
1	0	2246	A	2.0
1	0	2247	A	2.0
1	0	2831	A	2.0
1	0	347	C	2.0
1	0	959	C	2.0
1	0	1396	C	2.0
1	0	1580	C	2.0
1	0	2046	C	2.0
1	0	2383	C	2.0
1	0	350	U	2.0
1	0	978	U	2.0
1	0	1551	U	2.0
1	0	1592	U	2.0
1	0	2470	U	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

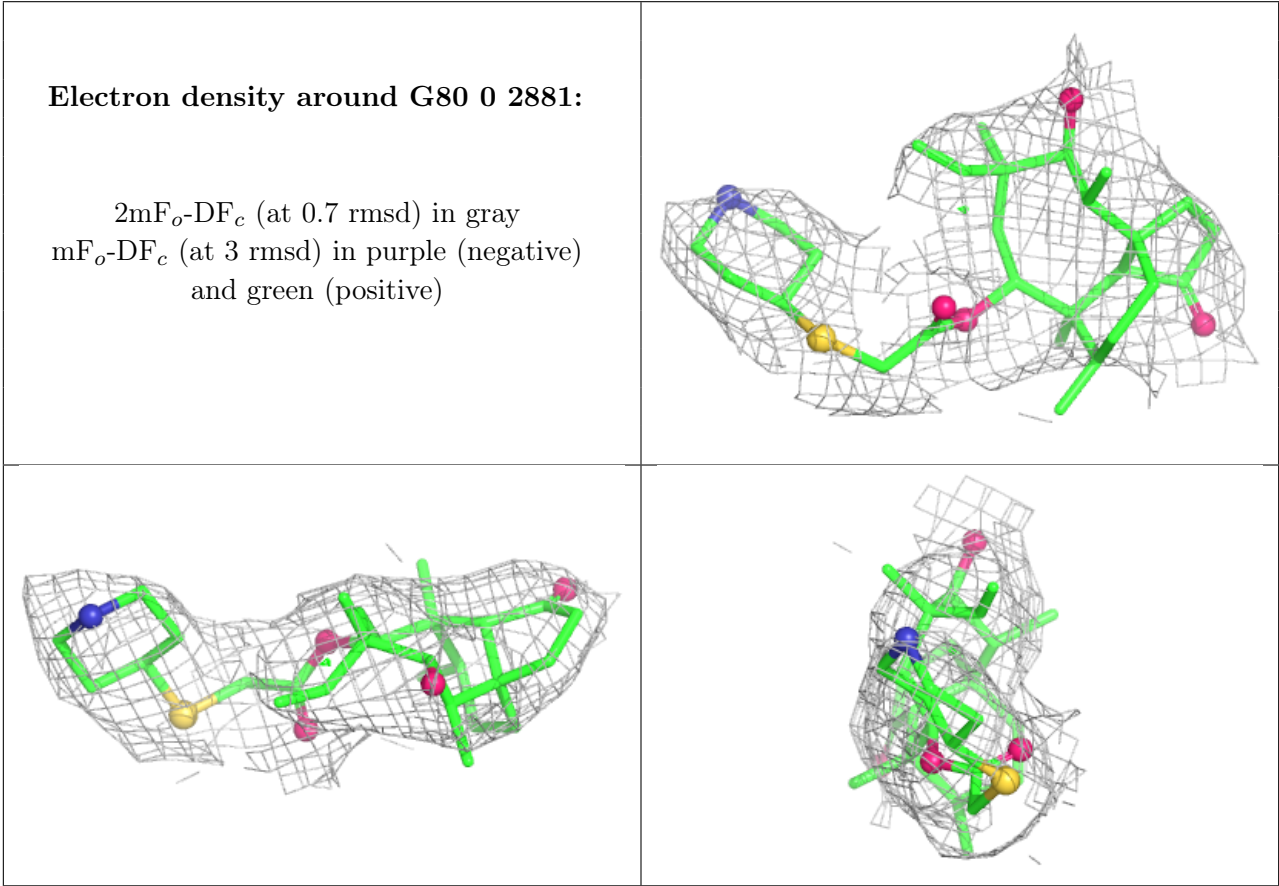
6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	G80	0	2881	33/33	0.90	0.22	62,62,62,62	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers ⓘ

There are no such residues in this entry.