



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 05:31 AM UTC

PDB ID : 4V4W / pdb_00004v4w
EMDB ID : EMD-1143
Title : Structure of a SecM-stalled E. coli ribosome complex obtained by fitting atomic models for RNA and protein components into cryo-EM map EMD-1143
Authors : Mitra, K.; Frank, J.
Deposited on : 2006-05-09
Resolution : 15.00 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

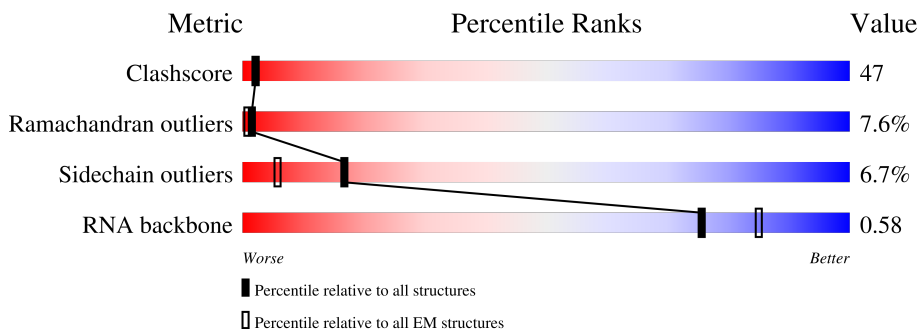
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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:
ELECTRON MICROSCOPY

The reported resolution of this entry is 15.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102
RNA backbone	8273	3508

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1488	49% 28% 53% 16% .
2	AU	76	46% 28% 58% 14%
2	AV	76	21% 30% 58% 12%
2	AW	76	30% 26% 59% 14%
3	AB	236	97% 43% 55% .
4	AC	206	89% 39% 55% 5%
5	AD	204	99% 40% 59% .

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Mol	Chain	Length	Quality of chain
6	AE	148	
7	AF	95	
8	AG	137	
9	AH	127	
10	AI	126	
11	AJ	96	
12	AK	116	
13	AL	101	
14	AM	115	
15	AN	61	
16	AO	86	
17	AP	78	
18	AQ	79	
19	AR	69	
20	AS	87	
21	AT	83	
22	B0	2740	
23	B9	108	
24	B2	222	
25	B3	119	
25	B5	119	
26	BA	227	
27	BB	209	
28	BC	198	
29	BD	177	

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Mol	Chain	Length	Quality of chain
30	BE	167	
31	BF	149	
32	BG	139	
33	BH	142	
34	BI	122	
35	BJ	140	
36	BK	131	
37	BL	114	
38	BM	113	
39	BN	114	
40	BO	115	
41	BQ	106	
42	BR	92	
43	BS	99	
44	BT	94	
45	BU	84	
46	BW	60	
47	BX	56	
48	BZ	29	
49	B1	52	

2 Entry composition

There are 49 unique types of molecules in this entry. The entry contains 141668 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	1488	Total	C	N	O	P	0	0
			31924	14238	5854	10345	1487		

- Molecule 2 is a RNA chain called tRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AU	76	Total	C	N	O	P	0	0
			1622	725	293	529	75		
2	AV	76	Total	C	N	O	P	0	0
			1622	725	293	529	75		
2	AW	76	Total	C	N	O	P	0	0
			1622	725	293	529	75		

- Molecule 3 is a protein called 30S ribosomal subunit protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AB	236	Total	C	N	O	S	0	0
			1847	1165	328	346	8		

- Molecule 4 is a protein called 30S ribosomal subunit protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AC	206	Total	C	N	O	S	0	0
			1625	1028	305	289	3		

- Molecule 5 is a protein called 30S ribosomal subunit protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AD	204	Total	C	N	O	S	0	0
			1638	1023	314	297	4		

- Molecule 6 is a protein called 30S ribosomal subunit protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AE	148	Total	C	N	O	S	0	0
			1093	679	208	200	6		

- Molecule 7 is a protein called 30S ribosomal subunit protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AF	95	Total	C	N	O	S	0	0
			784	495	143	140	6		

- Molecule 8 is a protein called 30S ribosomal subunit protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AG	137	Total	C	N	O	S	0	0
			1079	671	204	200	4		

- Molecule 9 is a protein called 30S ribosomal subunit protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AH	127	Total	C	N	O	S	0	0
			968	610	171	181	6		

- Molecule 10 is a protein called 30S ribosomal subunit protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AI	126	Total	C	N	O	S	0	0
			1014	630	204	177	3		

- Molecule 11 is a protein called 30S ribosomal subunit protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AJ	96	Total	C	N	O	S	0	0
			773	484	148	140	1		

- Molecule 12 is a protein called 30S ribosomal subunit protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AK	116	Total	C	N	O	S	0	0
			870	535	173	159	3		

- Molecule 13 is a protein called 30S ribosomal subunit protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AL	101	Total	C	N	O	S	0	0
			787	486	159	138	4		

- Molecule 14 is a protein called 30S ribosomal subunit protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AM	115	Total	C	N	O	S	0	0
			892	552	179	158	3		

- Molecule 15 is a protein called 30S ribosomal subunit protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AN	61	Total	C	N	O	S	0	0
			500	310	108	80	2		

- Molecule 16 is a protein called 30S ribosomal subunit protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AO	86	Total	C	N	O	S	0	0
			697	430	139	127	1		

- Molecule 17 is a protein called 30S ribosomal subunit protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AP	78	Total	C	N	O	S	0	0
			622	390	122	109	1		

- Molecule 18 is a protein called 30S ribosomal subunit protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AQ	79	Total	C	N	O	S	0	0
			640	405	119	113	3		

- Molecule 19 is a protein called 30S ribosomal subunit protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AR	69	Total	C	N	O	S	0	0
			576	362	112	101	1		

- Molecule 20 is a protein called 30S ribosomal subunit protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AS	87	Total	C	N	O	S	0	0
			695	443	132	118	2		

- Molecule 21 is a protein called 30S ribosomal subunit protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AT	83	Total	C	N	O	S	0	0
			649	401	134	111	3		

- Molecule 22 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	B0	2740	Total	C	N	O	P	0	0
			58824	26239	10826	19019	2740		

- Molecule 23 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	B9	108	Total	C	N	O	P	0	0
			2310	1030	423	750	107		

- Molecule 24 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	B2	222	Total	C	N	O	S	0	0
			1652	1031	301	314	6		

- Molecule 25 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	B3	119	Total	C	N	O	S	0	0
			845	531	137	174	3		
25	B5	119	Total	C	N	O	S	0	0
			845	531	137	174	3		

- Molecule 26 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	BA	227	Total	C	N	O	S	0	0
			1733	1064	352	311	6		

- Molecule 27 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	BB	209	Total	C	N	O	S	0	0
			1565	979	288	294	4		

- Molecule 28 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	BC	198	Total	C	N	O	S	0	0
			1531	960	280	287	4		

- Molecule 29 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	BD	177	Total	C	N	O	S	0	0
			1415	902	250	257	6		

- Molecule 30 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	BE	167	Total	C	N	O	S	0	0
			1253	789	228	234	2		

- Molecule 31 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	BF	149	Total	C	N	O	S	0	0
			1111	699	197	214	1		

- Molecule 32 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	BG	139	Total	C	N	O	S	0	0
			1019	644	177	192	6		

- Molecule 33 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	BH	142	Total	C	N	O	S	0	0
			1129	714	212	199	4		

- Molecule 34 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BI	122	Total	C	N	O	S	0	0
			939	588	180	166	5		

- Molecule 35 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BJ	140	Total	C	N	O	S	0	0
			1017	632	200	184	1		

- Molecule 36 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BK	131	Total	C	N	O	S	0	0
			1036	661	200	171	4		

- Molecule 37 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BL	114	Total	C	N	O	S	0	0
			908	564	184	156	4		

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	BM	113	Total	C	N	O	0	0
			864	534	174	156		

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BN	114	Total	C	N	O	S	0	0
			917	574	179	163	1		

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				AltConf	Trace
40	BO	115	Total	C	N	O	0	0
			937	598	190	149		

- Molecule 41 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BQ	106	Total	C	N	O	S	0	0
			825	512	162	149	2		

- Molecule 42 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BR	92	Total	C	N	O	S	0	0
			717	455	132	129	1		

- Molecule 43 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BS	99	Total	C	N	O	S	0	0
			762	480	143	139			

- Molecule 44 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BT	94	Total	C	N	O	S	0	0
			753	479	137	134	3		

- Molecule 45 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BU	84	Total	C	N	O	S	0	0
			634	391	129	113	1		

- Molecule 46 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BW	60	Total	C	N	O	S	0	0
			495	305	96	92	2		

- Molecule 47 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BX	56	Total	C	N	O	S	0	0
			435	272	84	77	2		

- Molecule 48 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms				AltConf	Trace
48	BZ	29	Total	C	N	O	0	0
			234	145	47	42		

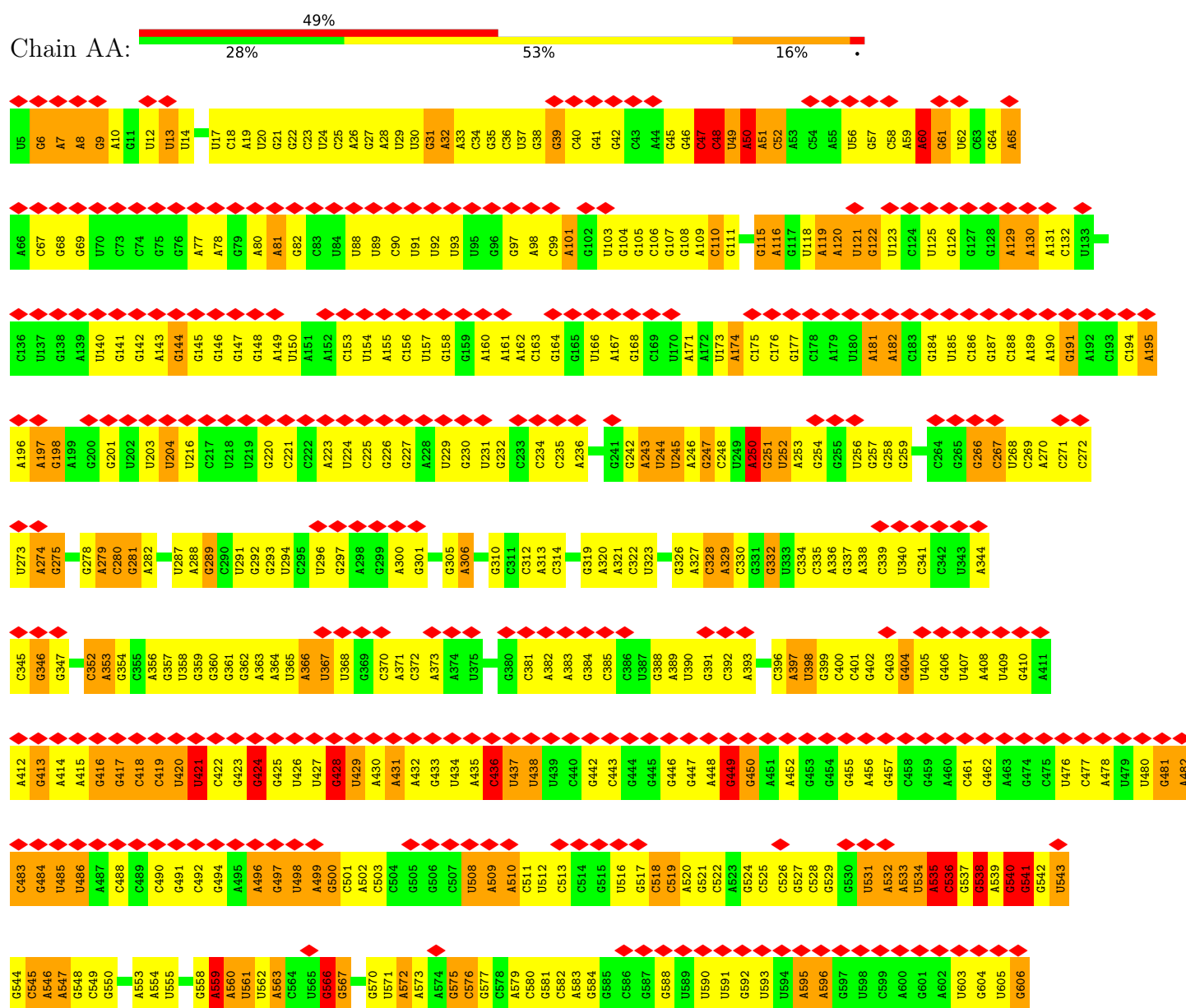
- Molecule 49 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				AltConf	Trace
49	B1	52	Total	C	N	O	0	0
			424	272	78	74		

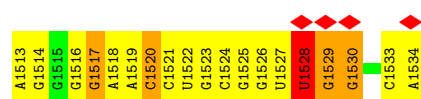
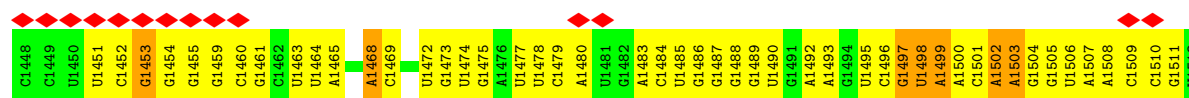
3 Residue-property plots

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 atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

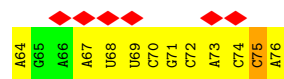
• Molecule 1: 16S ribosomal RNA



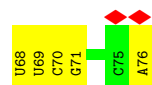




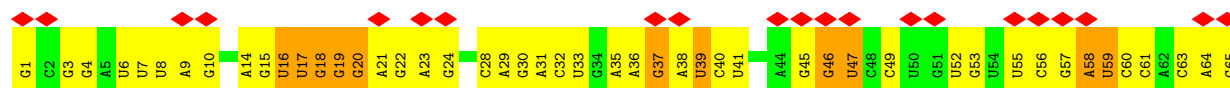
• Molecule 2: tRNA



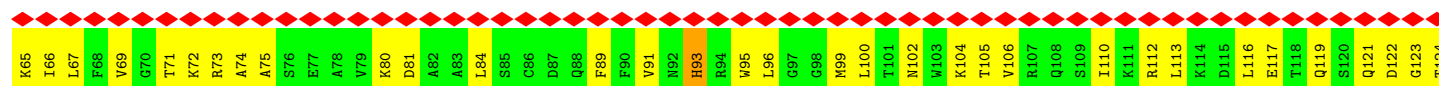
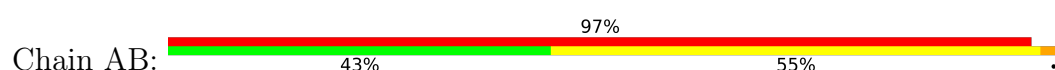
• Molecule 2: tRNA

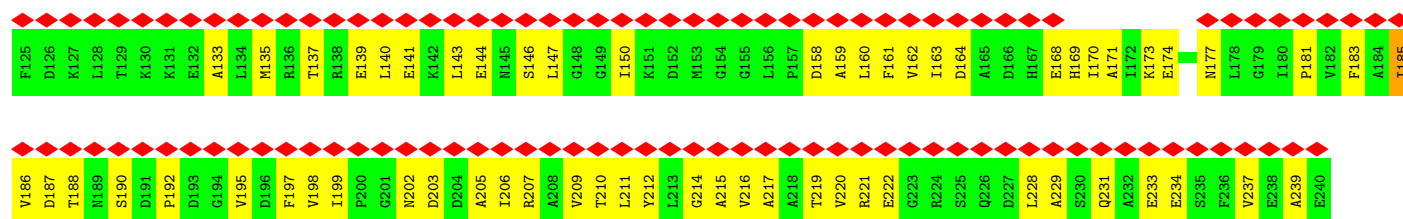


• Molecule 2: tRNA

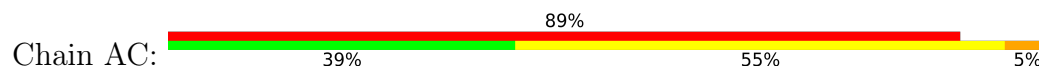


• Molecule 3: 30S ribosomal subunit protein S2





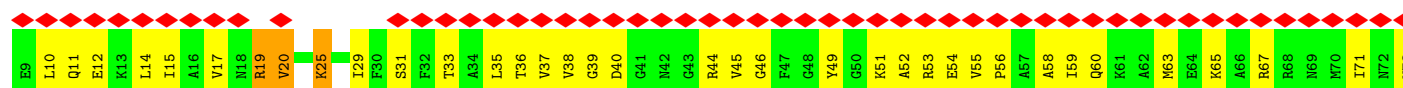
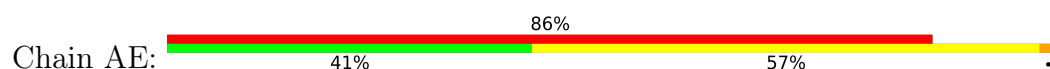
• Molecule 4: 30S ribosomal subunit protein S3

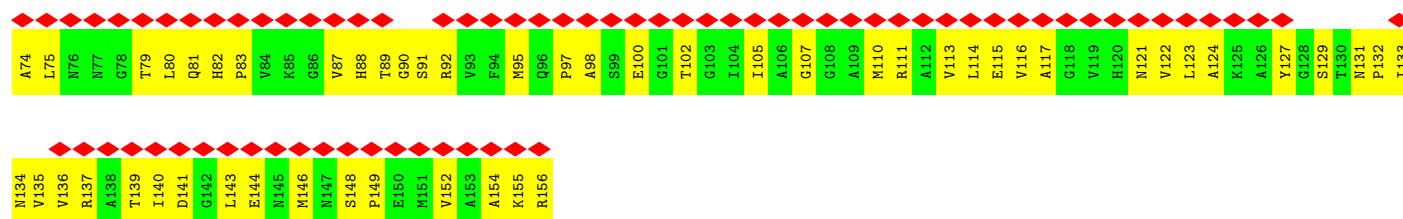


• Molecule 5: 30S ribosomal subunit protein S4

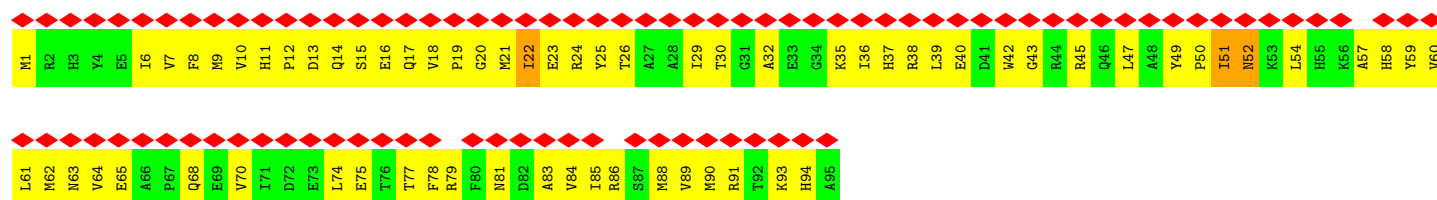


• Molecule 6: 30S ribosomal subunit protein S5

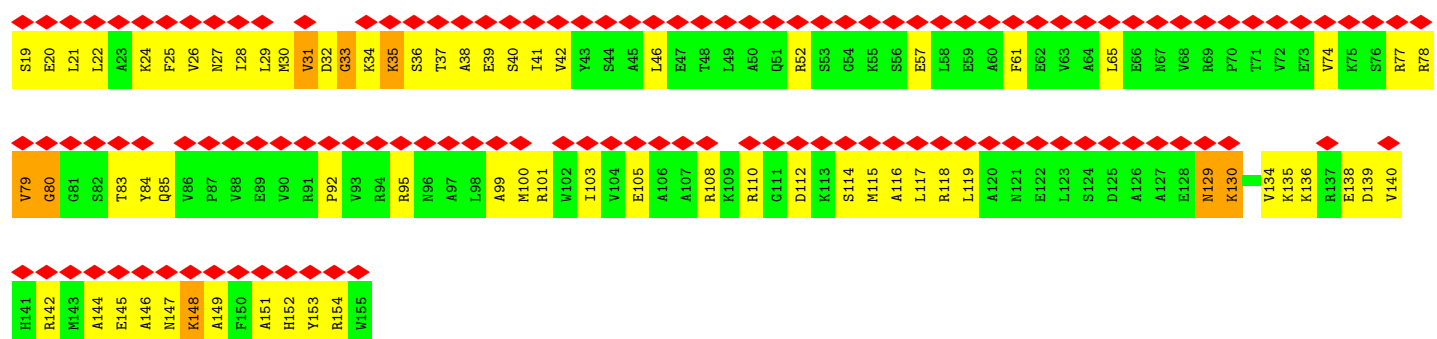
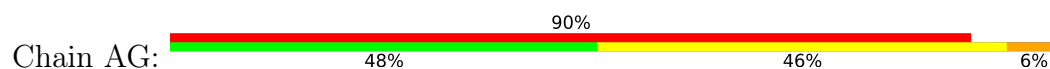




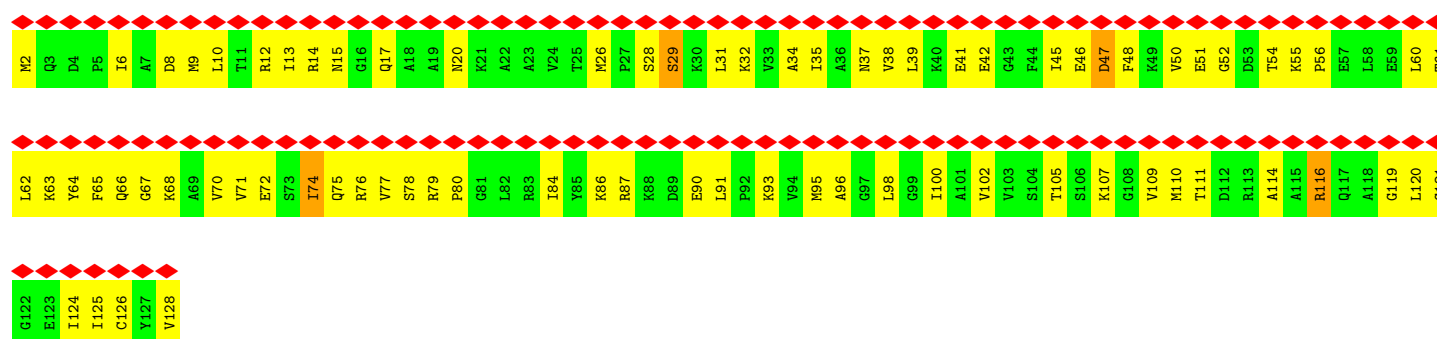
• Molecule 7: 30S ribosomal subunit protein S6



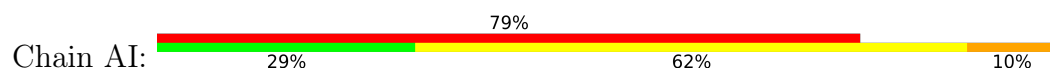
• Molecule 8: 30S ribosomal subunit protein S7

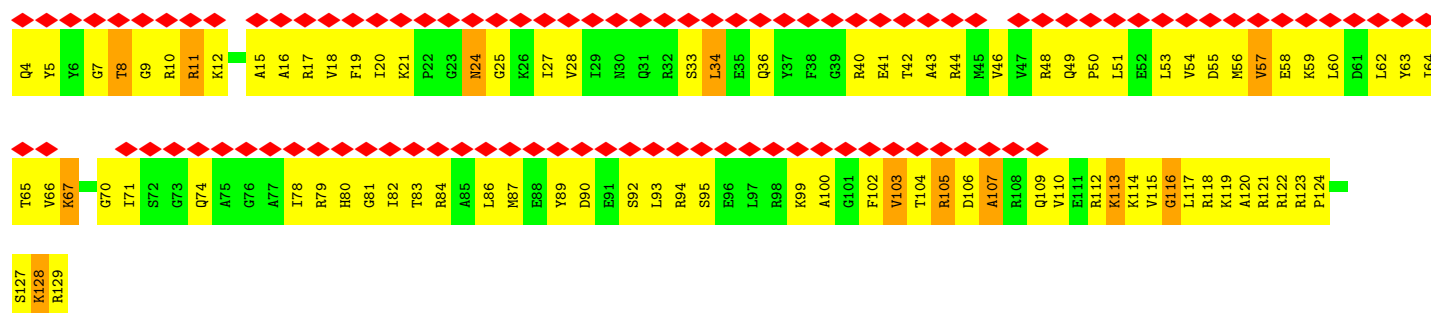


• Molecule 9: 30S ribosomal subunit protein S8

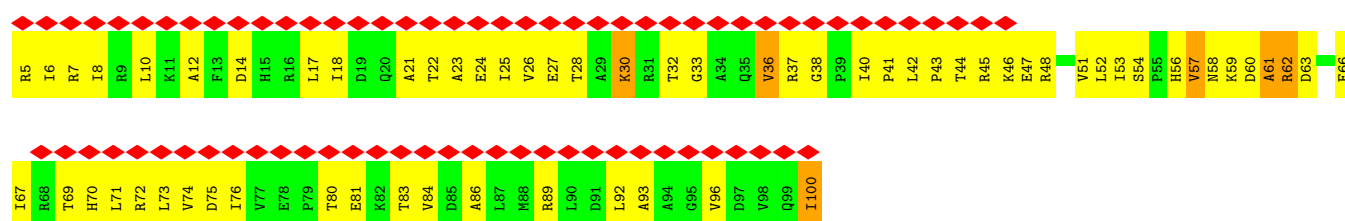
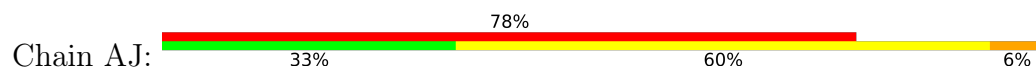


• Molecule 10: 30S ribosomal subunit protein S9

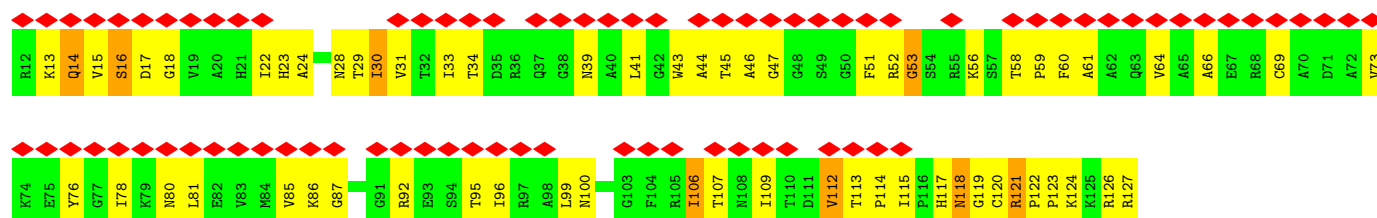
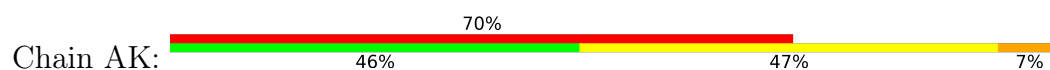




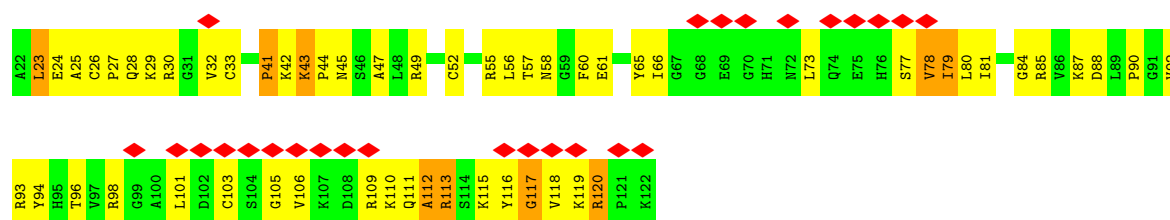
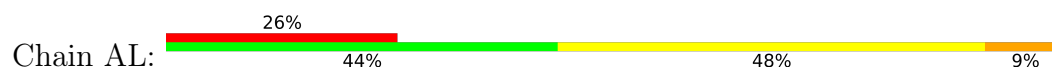
• Molecule 11: 30S ribosomal subunit protein S10



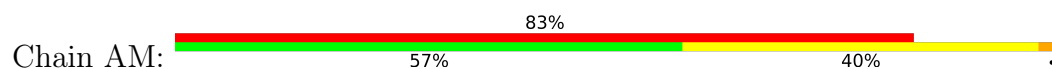
• Molecule 12: 30S ribosomal subunit protein S11

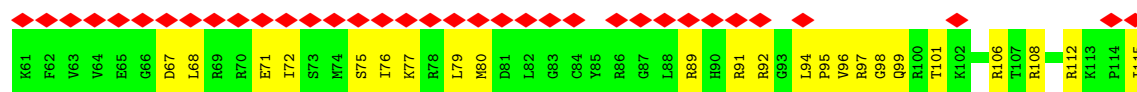


• Molecule 13: 30S ribosomal subunit protein S12

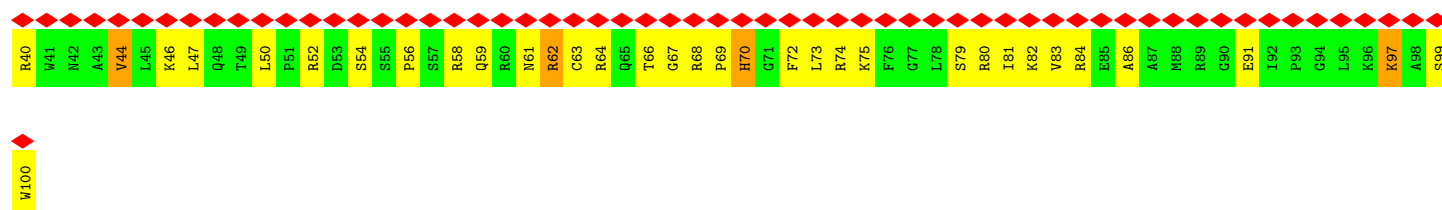


• Molecule 14: 30S ribosomal subunit protein S13

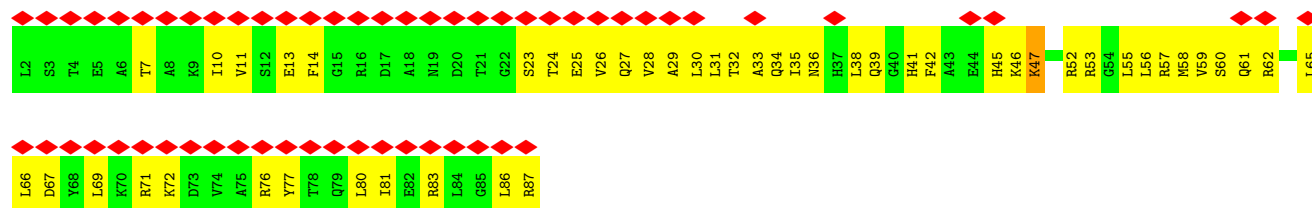




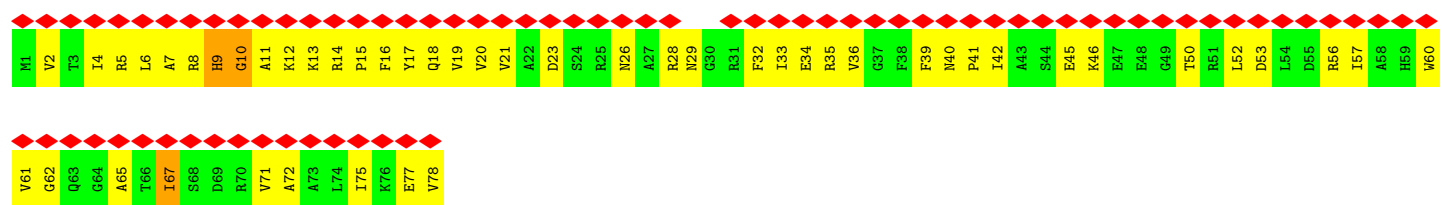
- Molecule 15: 30S ribosomal subunit protein S14



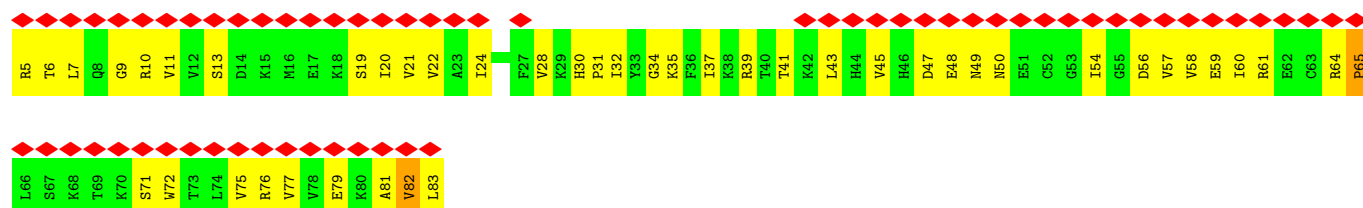
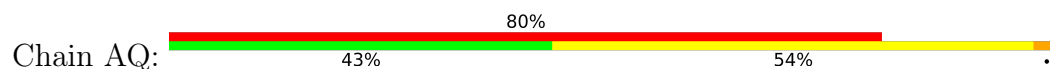
- Molecule 16: 30S ribosomal subunit protein S15



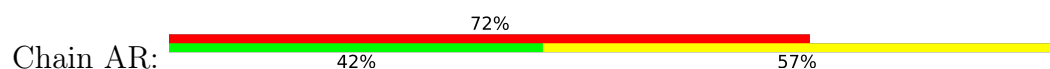
- Molecule 17: 30S ribosomal subunit protein S16

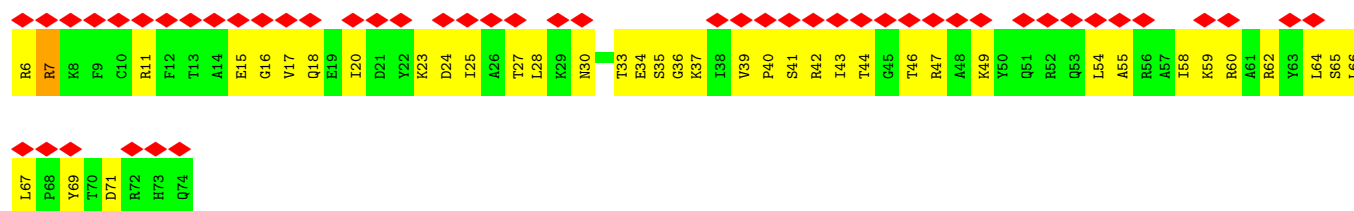


- Molecule 18: 30S ribosomal subunit protein S17

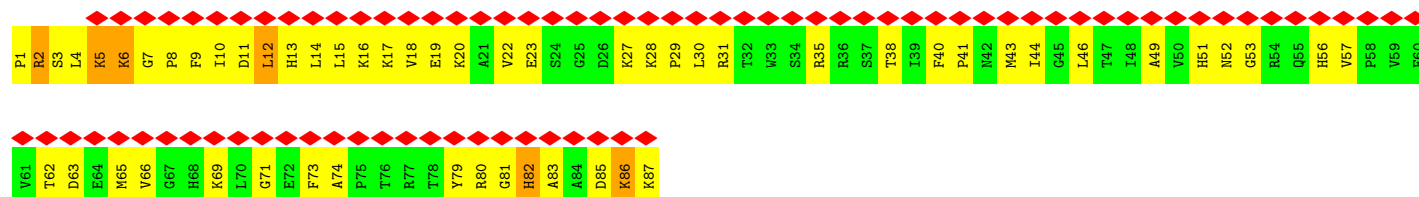


- Molecule 19: 30S ribosomal subunit protein S18

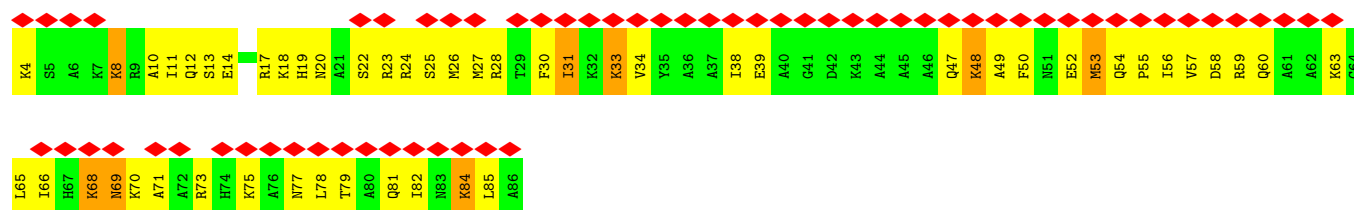
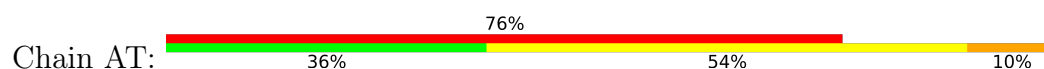




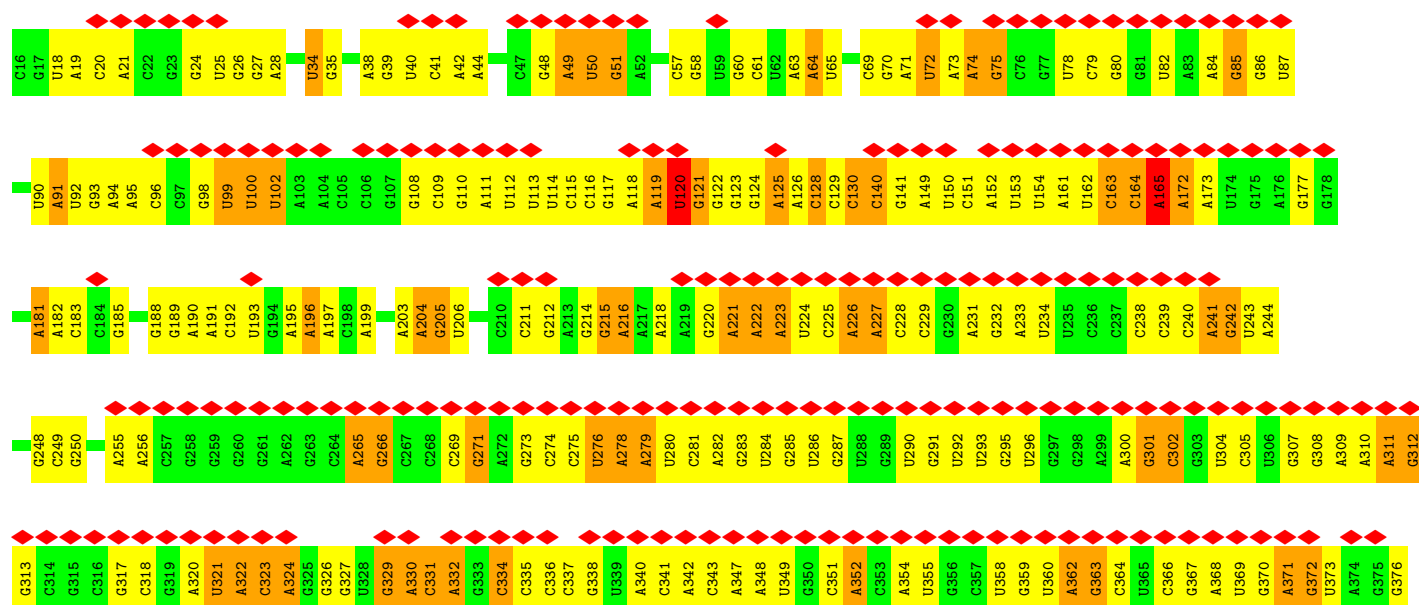
• Molecule 20: 30S ribosomal subunit protein S19



• Molecule 21: 30S ribosomal subunit protein S20

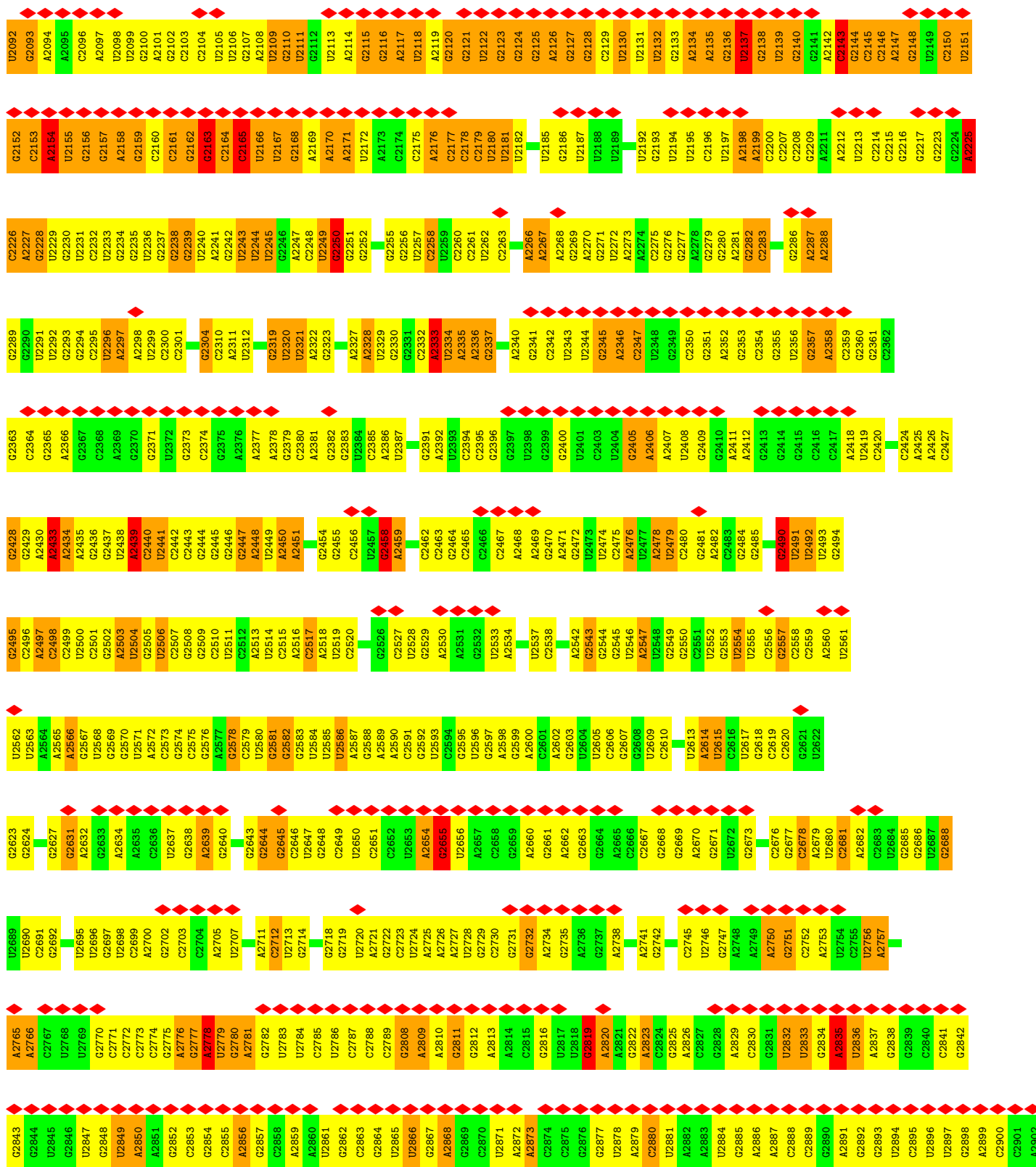


• Molecule 22: 23S ribosomal RNA





G1220	G1280	C1345	G1412	G1472	U1532	A1597	G1661	U1742	A1810	C1892	G1958	U2022
C1221	G1281	G1346	U1413	C1473	C1533	A1598	U1662	G1743	G1811	C1893	G1959	C2023
U1222	U1282	A1347	G1414	U1474	G1536	U1599	G1663	A1746	U1812	C1894	A1960	C2024
G1223	U1283		G1415	C1475	G1537	G1600	A1664	U1747	G1813	C1895	C1961	G2025
U1224	A1284	C1351	G1416	A1476	G1538	G1601	A1665	C1748	G1814	G1896	U1963	A2030
G1225	A1285	U1352	U1417	A1477	G1539	U1602	A1666	C1749	C1815	G1897	G1964	A2031
A1226	A1286	G1355	G1418	G1478	A1540	A1603	A1667	U1750	C1816	U1898	C1965	G2032
G1227	A1287	G1356	A1419	G1479	G1541	G1605	A1668	G1751	U1817	A1899	C1966	A2033
G1228	G1288	C1357	U1420	G1480	G1542	C1606	C1607	U1752	U1818	A1900	C1967	U2034
G1229	C1289	G1358	G1421	C1481	C1543	C1607	A1608	G1752	A1819	U1901	G1968	G2035
A1230	C1291	A1359	G1422	G1482	G1544	A1609	G1673	U1753	U1820	C1902	G1969	C2036
U1231	G1292	G1360	A1423	A1483	A1545	G1610	G1674	G1755	A1821	G1903	A1970	C2037
G1232	U1293	G1361	G1424	G1484	A1546	C1611	A1675	U1756	C1822	G1904	U1971	G2038
C1233	U1294	G1362	G1425	U1484	G1546	U1612	A1676	A1757	G1824	C1909	G1972	U2039
U1234	C1295	A1365	G1426	C1485	U1547	G1613	A1677	U1758	U1825	G1910	G1973	G2040
G1235	G1296	A1366	A1427	G1486	U1548	A1614	A1678	A1759	G1826	U1911	C1974	U2041
G1236	C1297	G1367	C1428	G1487	A1548	C1615	U1679	C1760	U1827	A1912	G1975	C2042
A1237	G1298	G1368	G1429	G1488	A1549	G1616	U1680	G1761	G1828	A1913	U1976	C2043
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G1239	U1299	C1370	G1431	U1489	A1551	A1618	U1682	U1764	G1831	U1917	G1980	G2045
U1240	G1300	G1371	G1432	C1490	A1552	G1619	G1683	G1765	C1832	A1918	A1981	G2046
A1241	A1301	U1372	A1433	A1491	G1553	G1623	G1684	G1766	U1833	G1919	U1982	C2047
C1242	A1302	G1373	G1434	G1492	G1555			G1767	U1834	C1920	G1983	G2048
G1243	G1303	U1374	G1435	A1493	U1559	A1626	G1687	U1768	G1835	G1921	A1984	A2051
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G1245	G1310	G1376	U1440	A1495	U1562	G1628	A1689	G1770	U1837	U1923	G1986	G2053
A1246	G1311	G1377	U1441	A1496	U1563	U1629	C1691	C1771	C1838	C1924	G1987	U2054
U1247	U1312	U1381	U1442	A1497	G1564	A1630	U1692	G1772	G1839	U1925	G1988	G2055
G1248	U1313	A1382	U1443	U1498	C1565	A1631	U1693	G1773	U1840	U1926	U1989	C2056
U1249	C1314	A1383	U1444	A1500	G1566	A1632	C1694	G1774	U1841	A1927	U1990	G2057
G1250	G1315	A1384	U1445	C1501	G1567	G1633	G1695	G1775	G1842	C1928	G1991	U2058
C1251	U1316	A1385	U1446	C1502	G1568	A1634	G1696	U1779	C1944	G1929	U1992	A2059
G1252	U1317	C1386	G1446	G1503	A1569	A1635	G1697	A1780	G1945	U1930	C1993	A2060
A1253	C1318	A1387	C1447	U1504	U1570	U1636	A1698	U1781	G1946	A1931	G1994	G2061
U1254	U1319	A1254	C1448	G1505	A1571	A1637	G1699	U1782	A1947	U1932	G1995	A2062
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G1256	A1321	G1256	A1449	C1506	A1573	C1639	A1701	G1784	G1949	C1934	C1997	C2064
C1257	G1322	C1322	U1450	U1507	C1574	A1640	G1702	A1785	G1950	U1935	C2000	C2065
U1258	U1323	U1323	G1451	U1508	U1575	G1642	G1703	U1786	A1853	A1936	G2002	G2066
G1259	U1324	U1258	G1452	C1509	U1576	G1643	C1704	A1787	A1854	A1937	A2003	U2067
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U1262	A1327	U1261	U1454	G1512	A1579	C1646	G1707	A1791	G1860	C1941	C2006	U2070
A1263	U1328	U1262	U1455	C1513	A1580	U1647	C1708	A1794	G1869	U1942	U2007	C2071
A1264	U1329	U1263	U1456	U1514	A1581	G1649	U1709	G1795	C1870	U1943	U2008	U2072
U1265	A1264	U1264	G1456	C1515	U1582	A1650	G1710	U1796	A1801	G1944	A2009	U2073
G1266	G1330	A1265	G1457	U1516	G1582	G1651	G1711	G1797	A1802	U1945	G2010	U2074
U1267	G1331	G1266	U1458	C1515	G1583	A1652	A1712	U1798	A1803	C1946	U2011	G2075
A1268	U1332	U1267	U1459	U1516	U1584	G1653	U1716	G1799	C1804	U1947	G2012	A2077
U1269	G1333	A1268	U1460	G1517	U1585	A1654	U1717	C1800	A1805	G1948	G2013	U2086
A1270	U1334	A1269	A1403	A1518	G1586	A1655	U1718	A1801	U1882	G1949	A2014	G2087
G1271	G1338	G1271	C1404	C1461	U1587	C1656	G1719	A1802	A1803	U1880	A2015	A2088
A1272	U1340	A1272	U1405	U1519	A1587	U1657	C1728	A1804	C1804	C1881	G1953	C2089
U1273	G1341	U1273	U1406	U1520	A1588	C1658	U1729	A1805	G1887	U1882	G1954	A2090
A1274	A1342	A1274	G1407	U1521	A1589	C1659	C1730		A1889	U1729	U1955	G2091
A1275	G1343	A1275	U1408	U1522	C1590	A1591	U1592		A1890	C1731	U1956	
G1276	U1344	A1276	U1409	U1523	A1591	U1592	G1731		G1891	C1732	C1957	
C1277		U1277	U1410	C1524	G1593	U1592	C1741			C1741		
G1278		G1278	G1467	G1525	G1593	U1593						
U1279		U1279	U1468	G1526	U1594	C1595						
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			A1470	A1528								
			C1471	G1529								
				C1530								

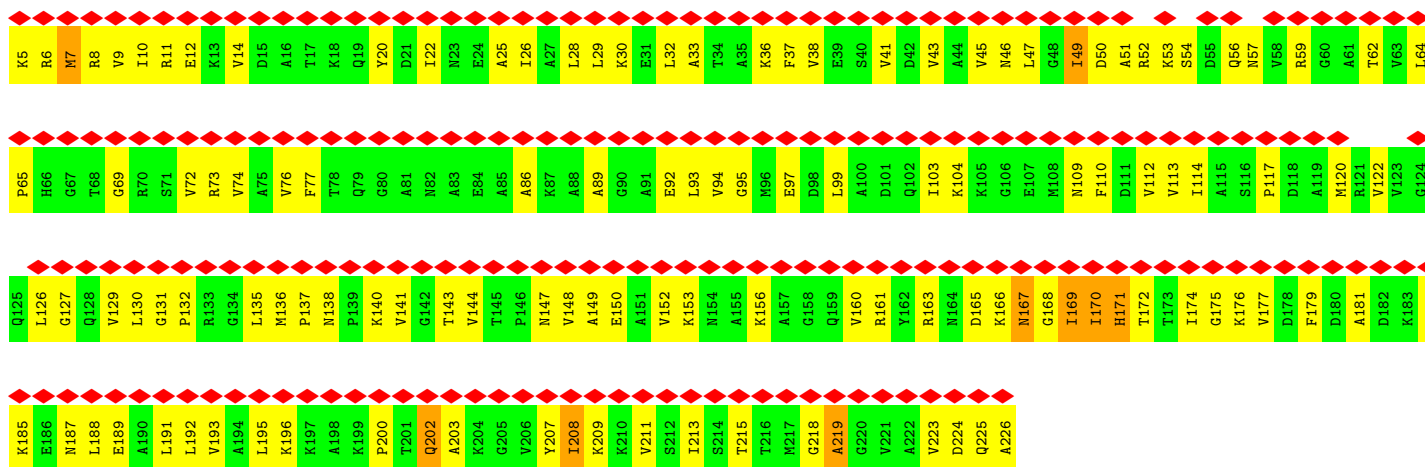
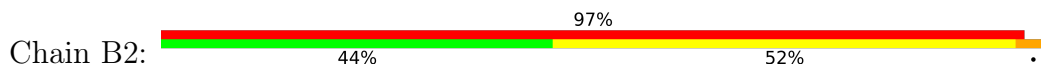


• Molecule 23: 5S ribosomal RNA

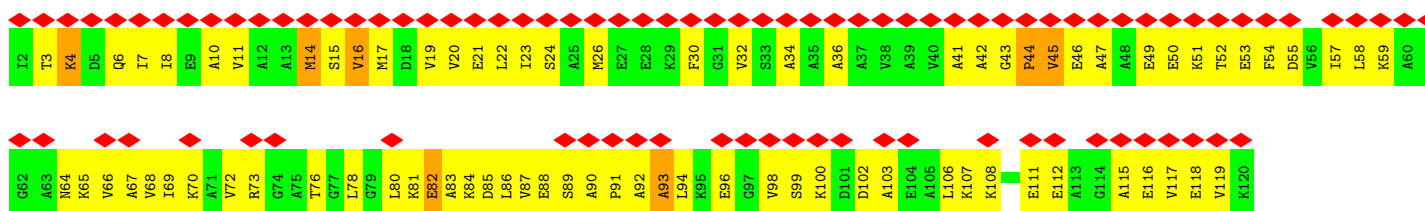
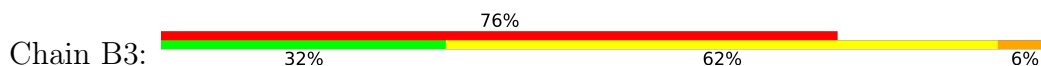




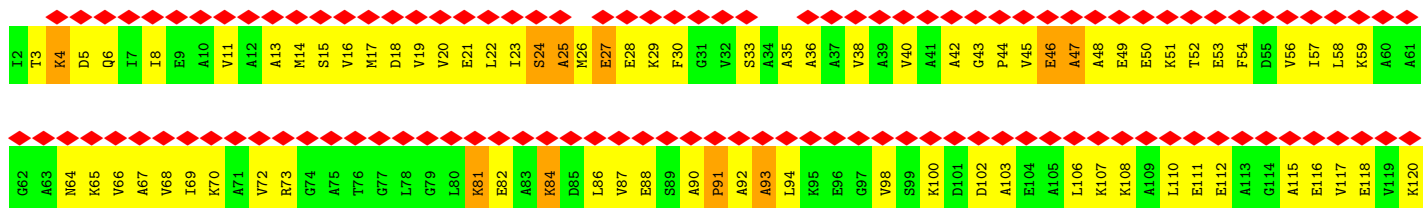
• Molecule 24: 50S ribosomal protein L1



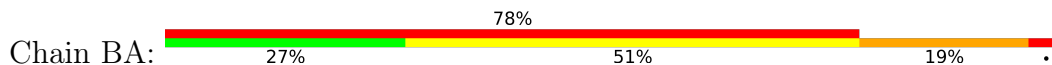
• Molecule 25: 50S ribosomal protein L7/L12

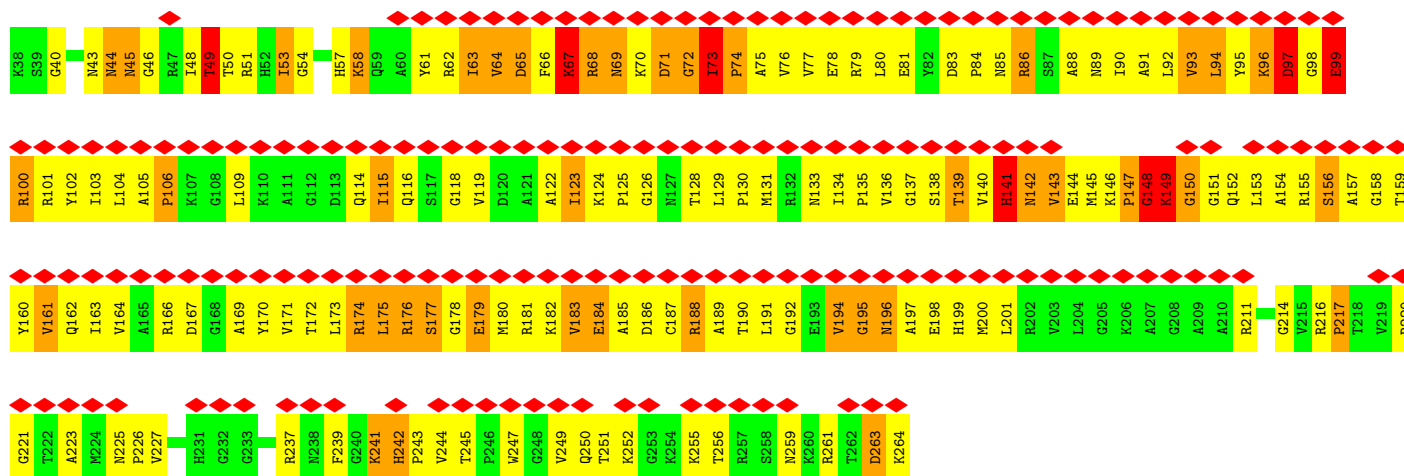


• Molecule 25: 50S ribosomal protein L7/L12

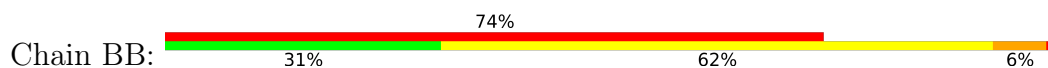


• Molecule 26: 50S ribosomal protein L2

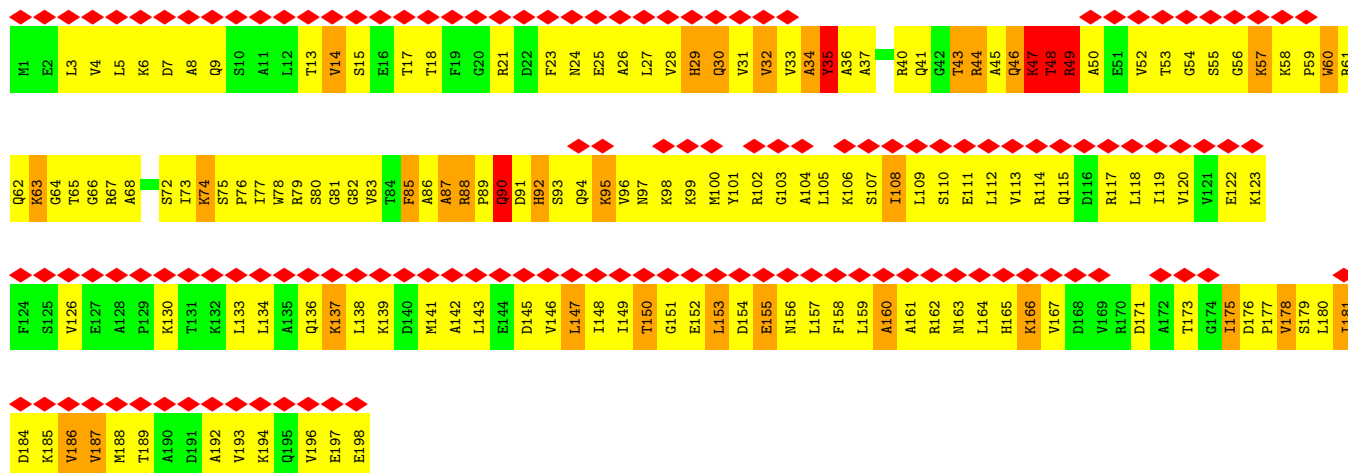




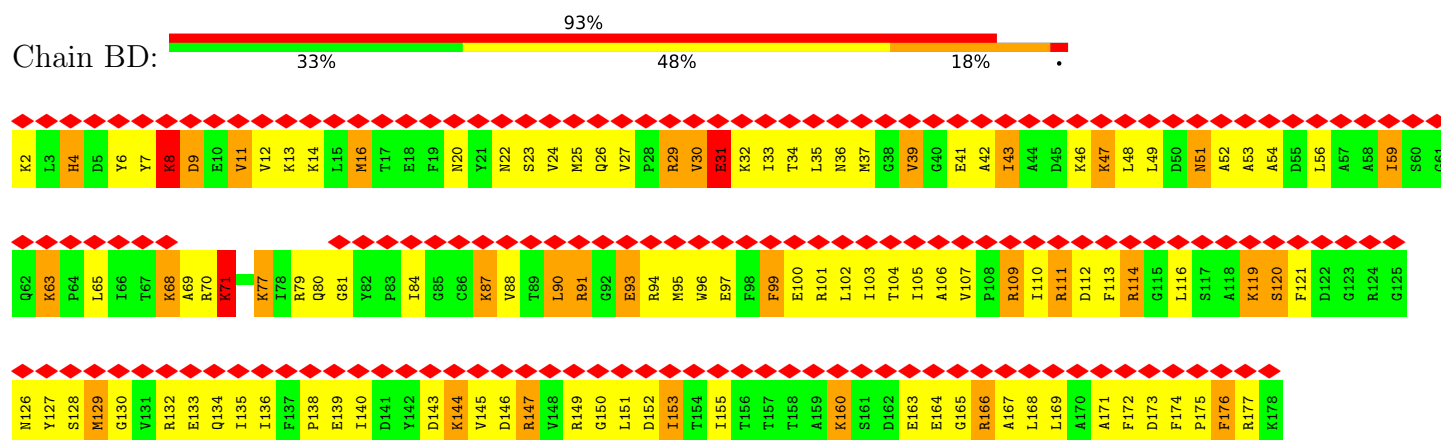
• Molecule 27: 50S ribosomal protein L3



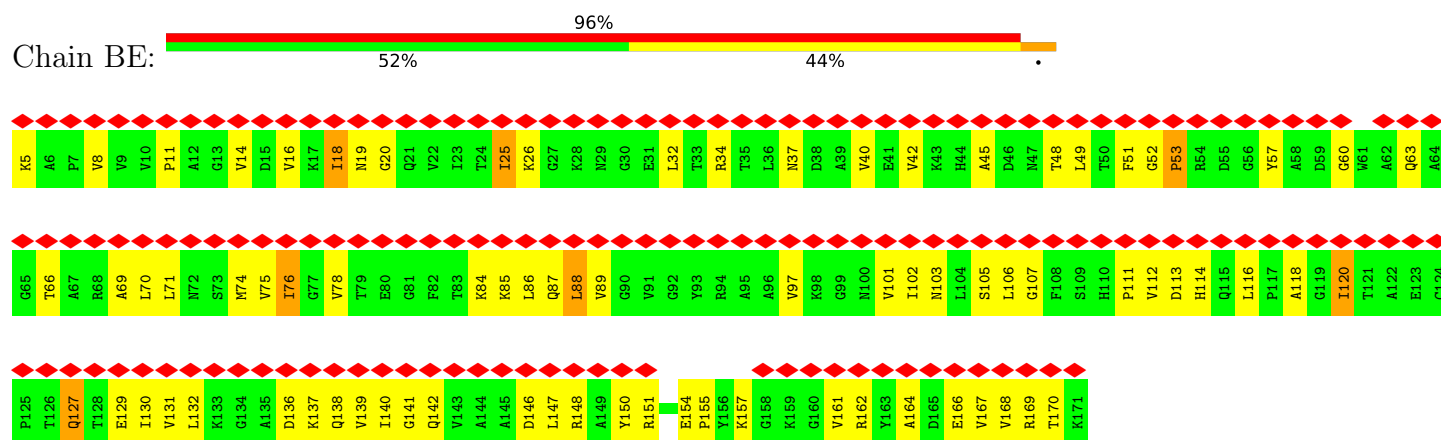
• Molecule 28: 50S ribosomal protein L4



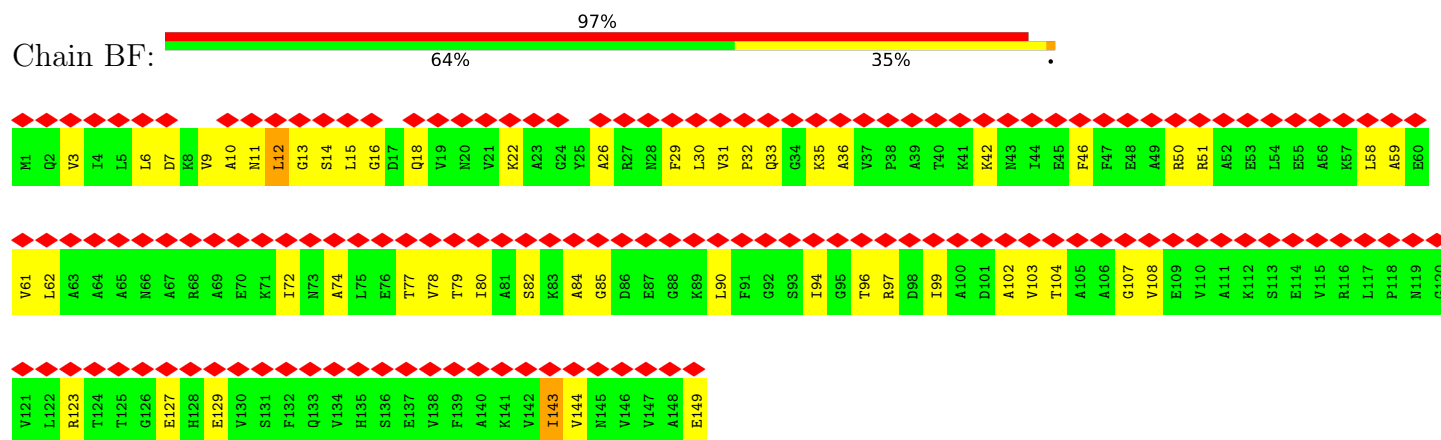
- Molecule 29: 50S ribosomal protein L5



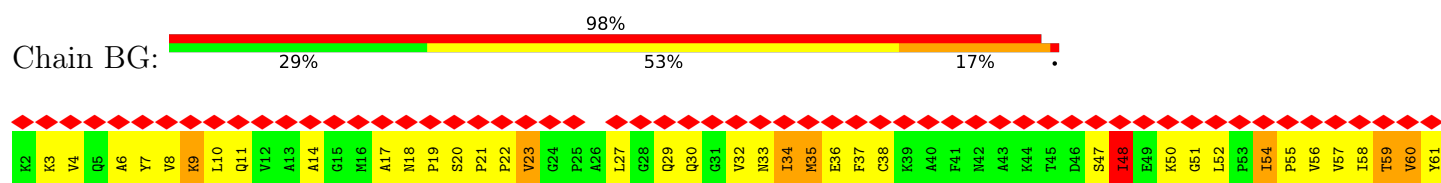
- Molecule 30: 50S ribosomal protein L6

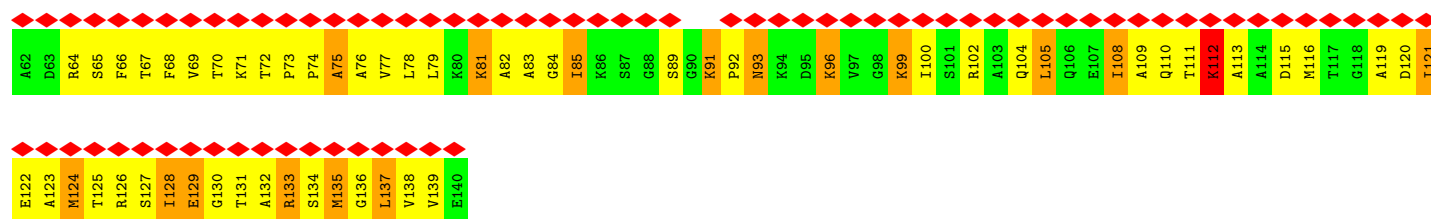


- Molecule 31: 50S ribosomal protein L9

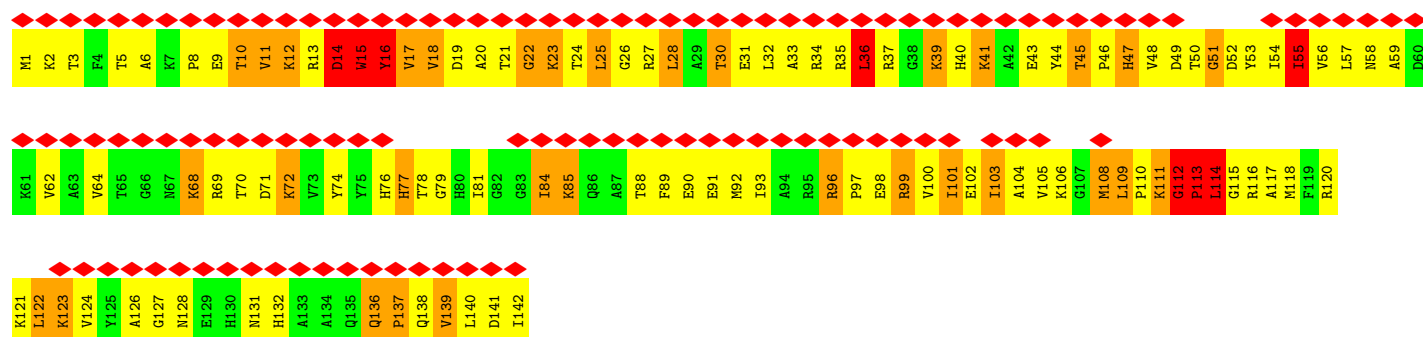
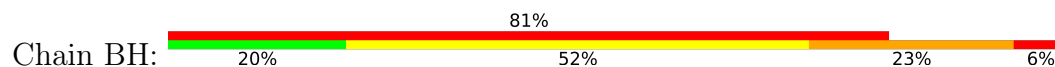


- Molecule 32: 50S ribosomal protein L11

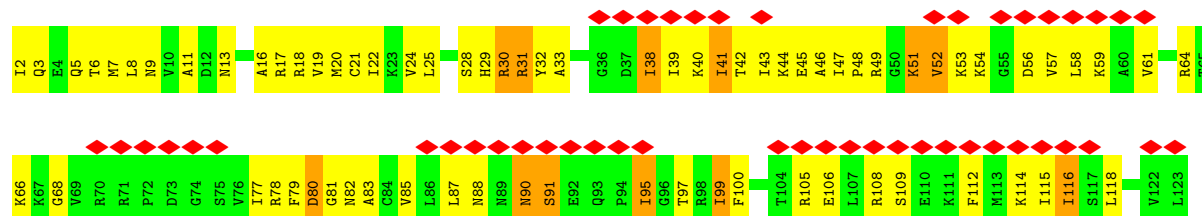




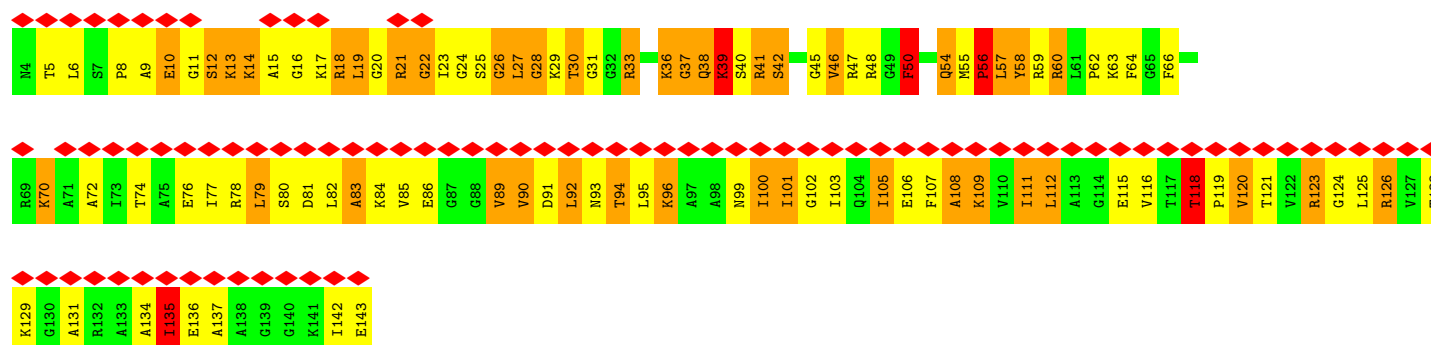
• Molecule 33: 50S ribosomal protein L13



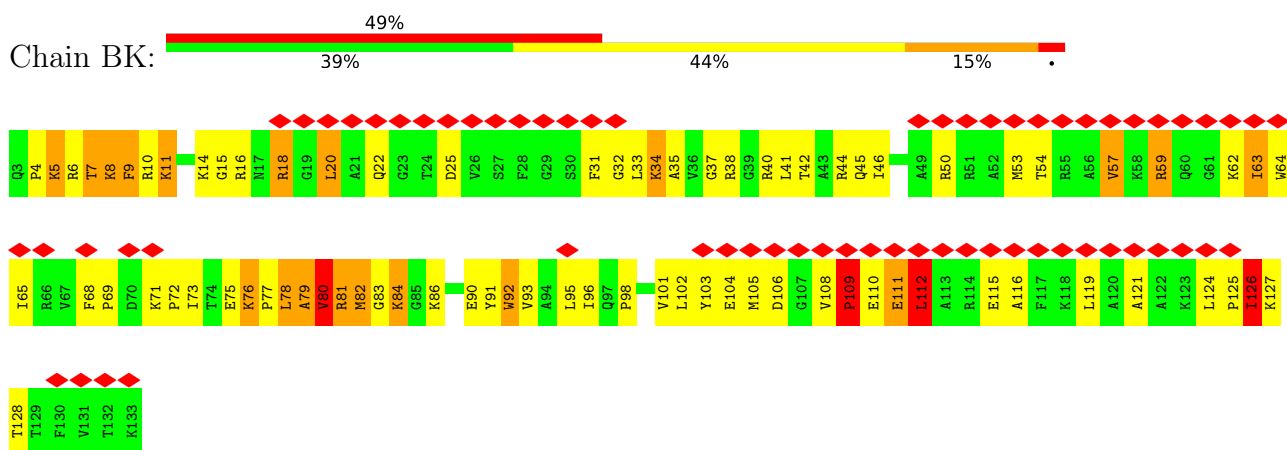
• Molecule 34: 50S ribosomal protein L14



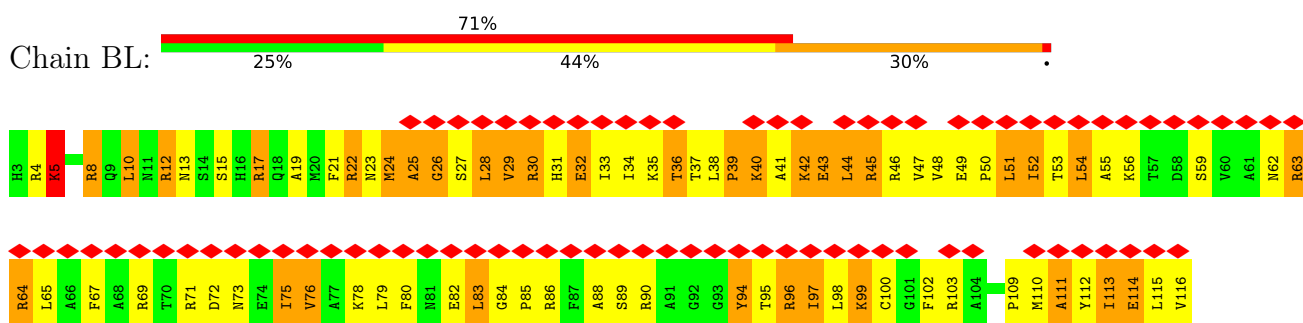
• Molecule 35: 50S ribosomal protein L15



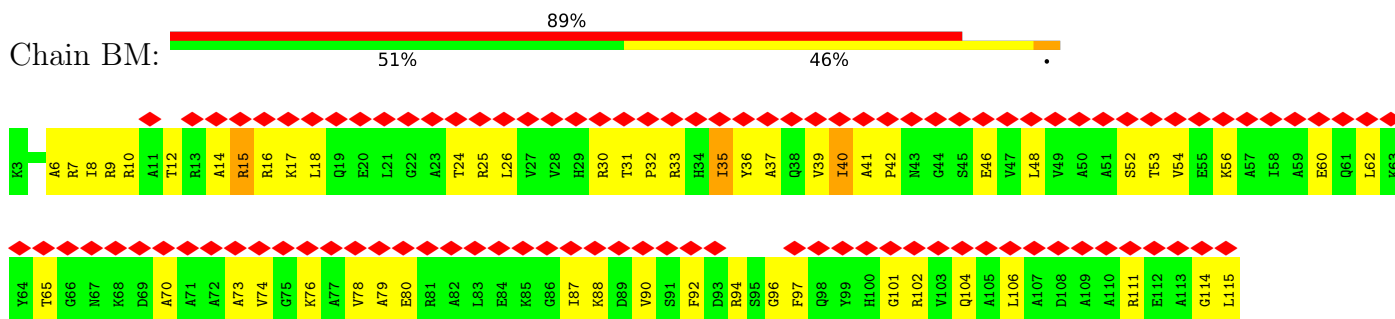
• Molecule 36: 50S ribosomal protein L16



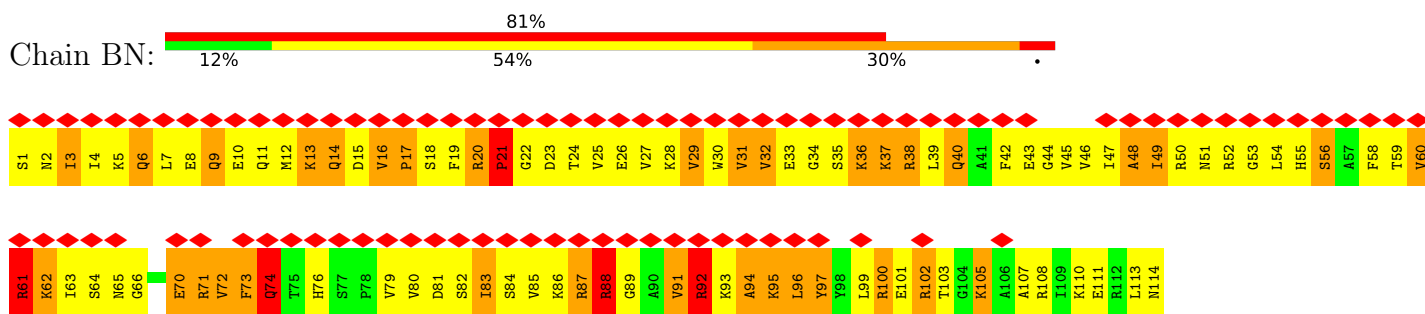
- Molecule 37: 50S ribosomal protein L17



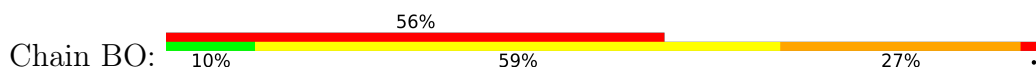
- Molecule 38: 50S ribosomal protein L18

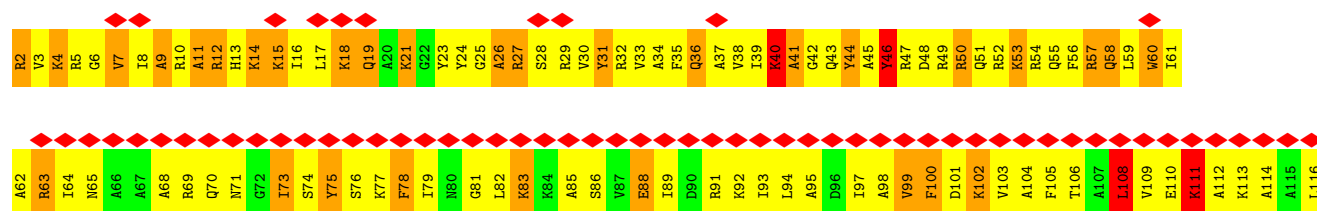


- Molecule 39: 50S ribosomal protein L19

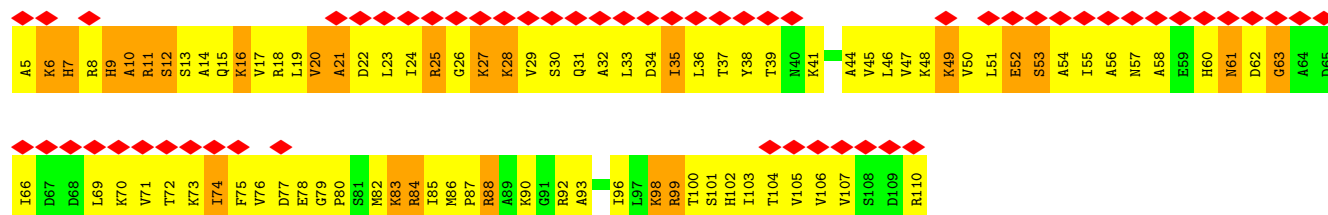


- Molecule 40: 50S ribosomal protein L20

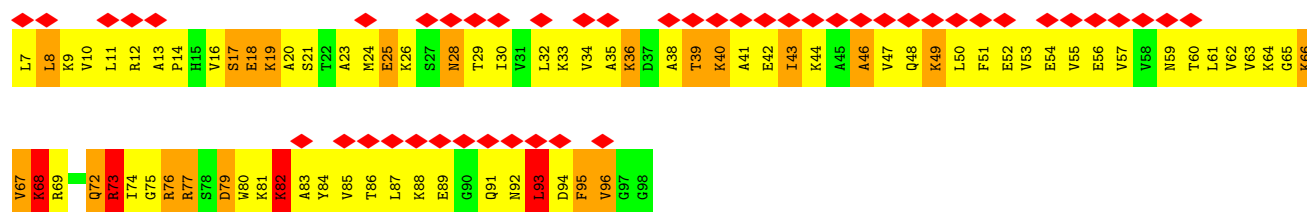




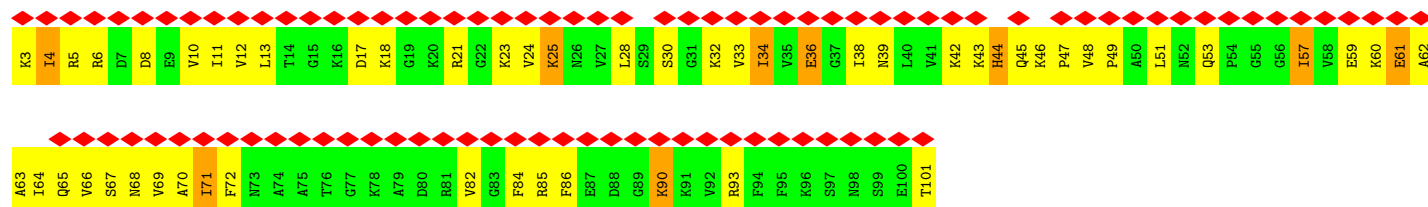
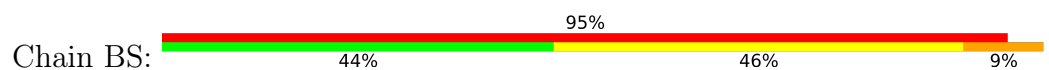
• Molecule 41: 50S ribosomal protein L22



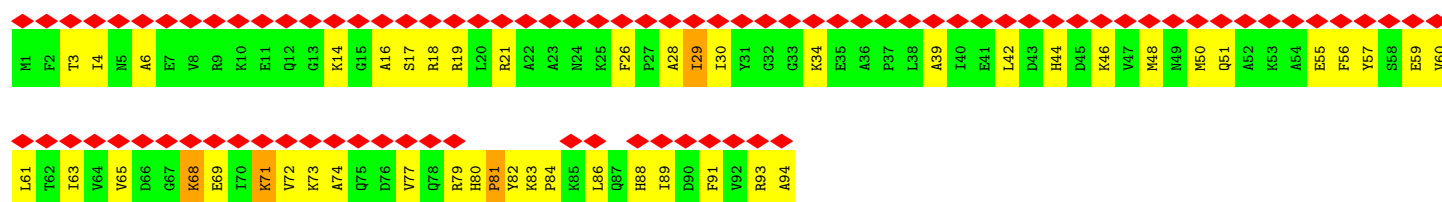
• Molecule 42: 50S ribosomal protein L23



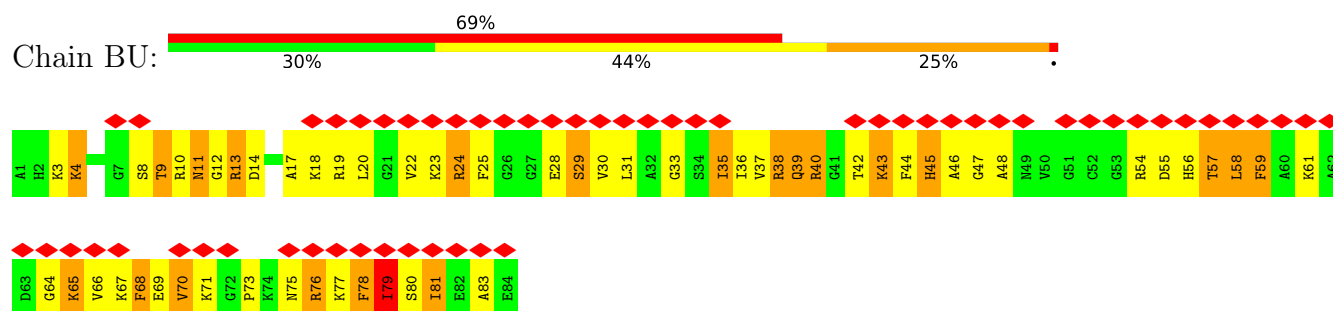
• Molecule 43: 50S ribosomal protein L24



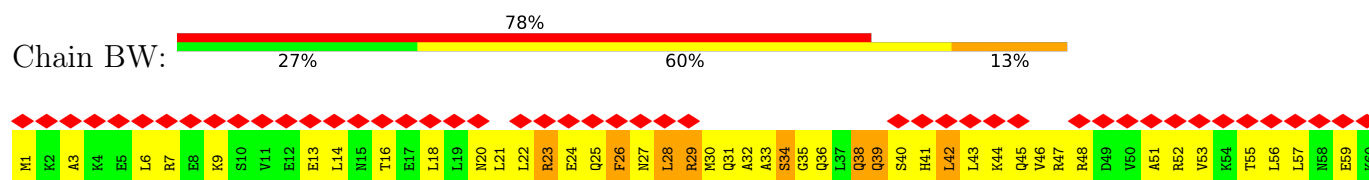
• Molecule 44: 50S ribosomal protein L25



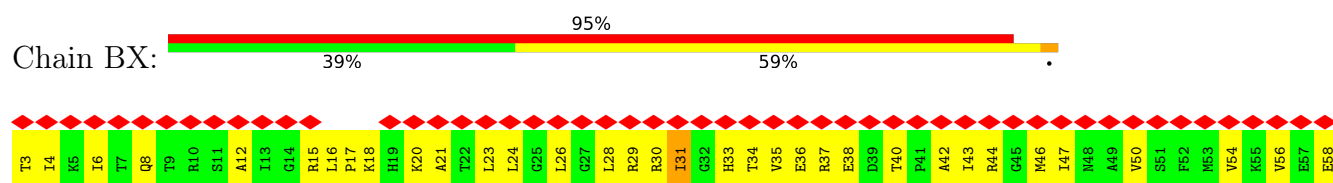
• Molecule 45: 50S ribosomal protein L27



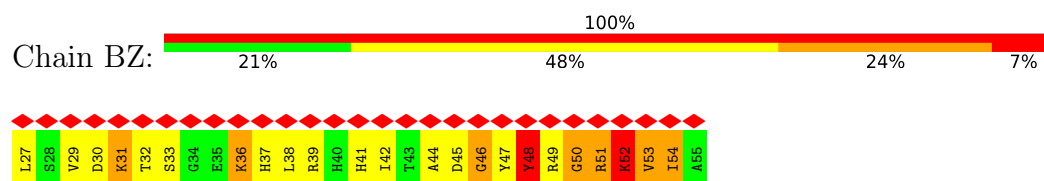
• Molecule 46: 50S ribosomal protein L29



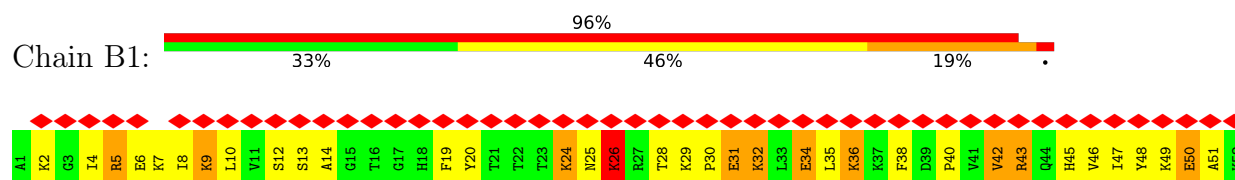
• Molecule 47: 50S ribosomal protein L30



• Molecule 48: 50S ribosomal protein L32



• Molecule 49: 50S ribosomal protein L33



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	53325	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	CTF correction of 3D-maps by Wiener filtration	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	11	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	4.3	Depositor
Magnification	39000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	454.815	Depositor
Minimum map value	-299.714	Depositor
Average map value	5.836	Depositor
Map value standard deviation	33.806	Depositor
Recommended contour level	46.1	Depositor
Map size ($\text{\AA}$)	341.22, 341.22, 341.22	wwPDB
Map dimensions	121, 121, 121	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	2.82, 2.82, 2.82	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	0.40	30/35745 (0.1%)	0.61	28/55764 (0.1%)
2	AU	0.26	0/1814	0.56	0/2827
2	AV	0.25	0/1814	0.54	0/2827
2	AW	0.26	0/1814	0.55	0/2827
3	AB	0.27	0/1877	0.67	0/2523
4	AC	0.28	0/1652	0.69	0/2225
5	AD	0.25	0/1660	0.67	0/2220
6	AE	0.28	0/1106	0.70	0/1488
7	AF	0.30	0/802	0.78	0/1081
8	AG	0.27	0/1093	0.76	0/1467
9	AH	0.28	0/978	0.71	0/1311
10	AI	0.27	0/1026	0.71	1/1364 (0.1%)
11	AJ	0.29	0/783	0.74	0/1058
12	AK	0.29	0/886	0.76	0/1195
13	AL	0.26	0/799	0.75	1/1070 (0.1%)
14	AM	0.27	0/900	0.77	0/1201
15	AN	0.28	0/510	0.71	0/679
16	AO	0.26	0/705	0.70	0/942
17	AP	0.28	0/632	0.79	2/848 (0.2%)
18	AQ	0.27	0/649	0.71	0/870
19	AR	0.29	0/585	0.65	0/782
20	AS	0.29	0/712	0.77	0/955
21	AT	0.28	0/655	0.74	0/866
22	B0	0.31	17/65882 (0.0%)	0.58	33/102783 (0.0%)
23	B9	0.28	0/2583	0.54	0/4028
24	B2	0.29	0/1665	0.75	1/2240 (0.0%)
25	B3	0.28	0/842	0.75	0/1123
25	B5	0.29	0/844	0.83	3/1129 (0.3%)
26	BA	1.13	4/1758 (0.2%)	1.01	14/2353 (0.6%)
27	BB	0.74	2/1582 (0.1%)	0.79	4/2122 (0.2%)
28	BC	0.31	0/1549	0.84	5/2082 (0.2%)
29	BD	0.27	0/1438	0.69	1/1927 (0.1%)
30	BE	0.29	0/1273	0.73	0/1725
31	BF	0.27	0/1120	0.71	0/1509

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
32	BG	0.33	0/1032	0.94	6/1388 (0.4%)
33	BH	0.31	0/1152	0.89	7/1551 (0.5%)
34	BI	0.28	0/948	0.72	0/1269
35	BJ	0.32	0/1025	0.90	6/1363 (0.4%)
36	BK	0.31	0/1055	0.76	2/1409 (0.1%)
37	BL	0.29	0/920	1.05	13/1229 (1.1%)
38	BM	0.27	0/873	0.71	0/1170
39	BN	0.28	0/929	0.73	0/1242
40	BO	0.91	6/949 (0.6%)	2.80	16/1261 (1.3%)
41	BQ	0.30	0/832	1.00	4/1113 (0.4%)
42	BR	0.26	0/720	0.73	0/956
43	BS	0.27	0/769	0.69	0/1023
44	BT	0.28	0/766	0.68	0/1025
45	BU	0.27	0/642	0.80	2/848 (0.2%)
46	BW	0.29	0/496	0.80	1/658 (0.2%)
47	BX	0.27	0/439	0.74	0/587
48	BZ	0.27	0/238	0.61	0/316
49	B1	0.28	0/431	0.67	0/572
All	All	0.36	59/153949 (0.0%)	0.67	150/230391 (0.1%)

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	AA	1	3
22	B0	5	4
All	All	6	7

All (59) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BA	67	LYS	CA-CB	37.02	2.03	1.53
27	BB	138	LEU	CA-CB	26.58	1.98	1.53
26	BA	149	LYS	N-CA	22.39	1.75	1.46
1	AA	545	C	O3'-P	19.45	1.90	1.61
1	AA	424	G	O3'-P	17.11	1.86	1.61
22	B0	1996	C	N1-C2	16.97	1.74	1.40
40	BO	100	PHE	CD1-CE1	13.39	1.78	1.38
40	BO	100	PHE	CD2-CE2	13.38	1.78	1.38
22	B0	1579	A	N1-C2	12.43	1.59	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BO	100	PHE	CE2-CZ	-10.96	1.05	1.38
40	BO	100	PHE	CE1-CZ	-10.95	1.05	1.38
1	AA	535	A	O3'-P	-10.94	1.44	1.61
22	B0	1579	A	C5-C6	10.45	1.61	1.41
22	B0	1579	A	C2-N3	10.35	1.54	1.33
22	B0	1421	G	N1-C2	10.10	1.57	1.37
26	BA	148	GLY	C-N	9.52	1.47	1.33
22	B0	1996	C	C2-N3	9.16	1.54	1.35
22	B0	1421	G	C5-C6	8.26	1.58	1.42
22	B0	1996	C	C4-C5	8.14	1.59	1.43
22	B0	1996	C	C5-C6	7.79	1.50	1.34
22	B0	1421	G	C6-N1	7.68	1.54	1.39
1	AA	416	G	O3'-P	7.32	1.72	1.61
1	AA	536	C	N1-C6	7.28	1.51	1.37
40	BO	100	PHE	CG-CD1	7.23	1.54	1.38
40	BO	100	PHE	CG-CD2	7.18	1.53	1.38
22	B0	1579	A	C6-N1	7.15	1.49	1.35
22	B0	1996	C	N3-C4	7.07	1.48	1.33
22	B0	2451	A	O3'-P	6.97	1.71	1.61
1	AA	419	C	N1-C6	6.91	1.50	1.37
1	AA	542	G	C5-C6	6.87	1.56	1.42
1	AA	418	C	N1-C6	6.84	1.50	1.37
1	AA	422	C	C2-N3	6.80	1.49	1.35
1	AA	423	G	C5-C6	6.77	1.55	1.42
1	AA	545	C	N1-C6	6.77	1.50	1.37
1	AA	417	G	C5-C6	6.67	1.55	1.42
1	AA	543	U	N1-C6	6.57	1.51	1.38
1	AA	537	G	C5-C6	6.50	1.55	1.42
1	AA	544	G	C5-C6	6.46	1.55	1.42
1	AA	541	G	C5-C6	6.43	1.55	1.42
1	AA	538	G	C5-C6	6.43	1.55	1.42
1	AA	421	U	N1-C6	6.37	1.50	1.38
1	AA	540	G	C5-C6	6.28	1.54	1.42
1	AA	420	U	N1-C6	6.17	1.50	1.38
1	AA	424	G	C5-C6	6.14	1.54	1.42
1	AA	539	A	N3-C4	6.08	1.47	1.34
22	B0	1421	G	C2-N3	5.98	1.44	1.32
1	AA	422	C	N1-C6	5.87	1.48	1.37
1	AA	421	U	C4-C5	5.86	1.55	1.43
1	AA	420	U	C4-C5	5.74	1.55	1.43
26	BA	67	LYS	CB-CG	5.67	1.69	1.52
1	AA	418	C	C2-N3	5.61	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B0	1579	A	C5-C4	5.41	1.49	1.38
1	AA	545	C	C2-N3	5.35	1.46	1.35
1	AA	536	C	C2-N3	5.30	1.46	1.35
1	AA	543	U	C4-C5	5.17	1.53	1.43
1	AA	419	C	C2-N3	5.15	1.46	1.35
27	BB	138	LEU	CB-CG	5.15	1.63	1.53
22	B0	1996	C	N1-C6	5.09	1.47	1.37
22	B0	1421	G	N3-C4	5.09	1.45	1.35

All (150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BO	100	PHE	CE1-CZ-CE2	-53.35	23.98	120.00
40	BO	100	PHE	CZ-CE2-CD2	-46.35	36.57	120.00
40	BO	100	PHE	CD1-CE1-CZ	-46.32	36.62	120.00
40	BO	100	PHE	CG-CD1-CE1	-21.21	84.64	120.70
40	BO	100	PHE	CG-CD2-CE2	-21.21	84.64	120.70
1	AA	545	C	O3'-P-O5'	-17.59	77.62	104.00
40	BO	100	PHE	CD1-CG-CD2	-16.70	93.55	118.60
1	AA	416	G	O3'-P-O5'	16.44	128.66	104.00
1	AA	424	G	O3'-P-O5'	-15.62	80.58	104.00
1	AA	535	A	P-O3'-C3'	11.18	136.97	120.20
22	B0	1593	G	N9-C1'-C2'	11.01	130.52	114.00
27	BB	138	LEU	CA-CB-CG	10.97	154.70	116.30
26	BA	148	GLY	CA-C-N	10.73	142.04	121.54
26	BA	148	GLY	C-N-CA	10.73	142.04	121.54
1	AA	416	G	P-O3'-C3'	-10.30	104.75	120.20
26	BA	67	LYS	CA-CB-CG	10.27	134.65	114.10
22	B0	1653	G	N9-C1'-C2'	9.98	128.97	114.00
35	BJ	28	GLY	N-CA-C	9.89	124.99	111.54
22	B0	2143	C	N1-C1'-C2'	9.77	126.66	112.00
32	BG	134	SER	N-CA-C	-8.63	101.12	113.21
36	BK	9	PHE	N-CA-C	-8.52	102.19	112.58
22	B0	2655	G	N9-C1'-C2'	8.31	126.46	114.00
40	BO	111	LYS	N-CA-C	-8.30	102.18	111.14
41	BQ	21	ALA	N-CA-C	-8.19	103.18	113.01
37	BL	54	LEU	N-CA-C	-8.04	103.98	113.38
22	B0	959	A	C2'-C3'-O3'	-7.97	101.75	113.70
22	B0	2163	G	N9-C1'-C2'	7.92	123.88	112.00
26	BA	175	LEU	N-CA-C	7.78	120.79	110.53
22	B0	2250	G	N9-C1'-C2'	7.76	125.64	114.00
37	BL	45	ARG	N-CA-C	-7.62	103.86	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	BB	137	SER	N-CA-C	-7.54	104.98	112.97
37	BL	52	ILE	N-CA-C	-7.46	99.08	109.45
22	B0	493	G	N9-C1'-C2'	7.46	123.19	112.00
28	BC	147	LEU	N-CA-C	-7.42	103.18	111.71
1	AA	428	G	N9-C1'-C2'	7.40	123.10	112.00
37	BL	24	MET	N-CA-C	-7.37	104.76	113.38
37	BL	25	ALA	N-CA-C	-7.37	104.15	113.43
40	BO	36	GLN	N-CA-C	-7.37	106.22	114.62
26	BA	195	GLY	N-CA-C	-7.27	103.57	111.93
40	BO	100	PHE	CB-CG-CD1	7.26	133.04	120.70
40	BO	100	PHE	CB-CG-CD2	7.18	132.91	120.70
32	BG	131	THR	N-CA-C	-7.08	104.61	113.18
40	BO	11	ALA	N-CA-C	-7.00	102.83	113.89
41	BQ	52	GLU	N-CA-C	-6.94	104.95	113.41
33	BH	10	THR	N-CA-C	6.85	118.54	111.14
37	BL	39	PRO	N-CA-C	-6.81	105.66	114.03
25	B5	24	SER	N-CA-C	-6.71	105.08	113.20
17	AP	9	HIS	N-CA-C	-6.70	105.09	113.20
35	BJ	83	ALA	N-CA-C	-6.66	106.36	114.75
1	AA	701	U	C2'-C3'-O3'	6.66	119.49	109.50
22	B0	764	A	C2'-C3'-O3'	6.54	119.31	109.50
28	BC	48	THR	N-CA-C	6.49	117.04	107.88
24	B2	7	MET	N-CA-C	-6.49	104.30	111.82
26	BA	176	ARG	N-CA-C	-6.42	104.47	113.20
1	AA	424	G	P-O3'-C3'	-6.40	110.59	120.20
35	BJ	57	LEU	N-CA-C	-6.35	106.75	114.75
1	AA	424	G	OP2-P-O3'	6.25	126.76	108.00
40	BO	40	LYS	N-CA-C	-6.25	104.56	111.82
1	AA	566	G	C2'-C3'-O3'	-6.23	104.35	113.70
1	AA	1285	A	C2'-C3'-O3'	6.22	118.82	109.50
37	BL	44	LEU	N-CA-C	-6.17	105.76	113.28
1	AA	559	A	C2'-C3'-O3'	6.16	118.74	109.50
1	AA	913	A	C2'-C3'-O3'	6.13	118.70	109.50
33	BH	28	LEU	N-CA-C	-6.10	105.97	113.41
1	AA	47	C	C2'-C3'-O3'	-6.04	104.64	113.70
1	AA	703	G	C2'-C3'-O3'	-6.04	104.65	113.70
32	BG	105	LEU	N-CA-C	-6.02	106.48	113.88
41	BQ	20	VAL	N-CA-C	-5.98	105.24	111.58
45	BU	24	ARG	N-CA-C	-5.97	105.32	114.16
22	B0	2490	G	C2'-C3'-O3'	-5.93	104.81	113.70
22	B0	1593	G	C2'-C3'-O3'	5.90	118.35	109.50
37	BL	22	ARG	N-CA-C	-5.83	102.28	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B5	6	GLN	N-CA-C	-5.81	108.00	114.62
28	BC	47	LYS	N-CA-C	5.78	117.23	110.41
41	BQ	53	SER	N-CA-C	-5.77	106.29	113.38
22	B0	960	A	C5'-C4'-C3'	5.76	124.64	116.00
26	BA	73	ILE	CA-C-N	5.76	127.04	119.84
26	BA	73	ILE	C-N-CA	5.76	127.04	119.84
22	B0	1593	G	O4'-C1'-C2'	5.75	111.55	105.80
45	BU	57	THR	N-CA-C	5.74	116.86	108.14
32	BG	128	ILE	N-CA-C	-5.74	106.20	112.80
37	BL	76	VAL	N-CA-C	-5.70	107.26	112.96
22	B0	2819	G	C2'-C3'-O3'	5.67	118.00	109.50
32	BG	129	GLU	N-CA-C	-5.67	106.20	113.23
22	B0	1141	U	C2'-C3'-O3'	5.66	117.99	109.50
22	B0	1022	G	C2'-C3'-O3'	-5.64	105.23	113.70
32	BG	133	ARG	N-CA-C	5.64	118.40	108.75
13	AL	113	ARG	N-CA-C	-5.63	106.54	113.41
22	B0	532	A	C2'-C3'-O3'	-5.63	105.26	113.70
40	BO	41	ALA	N-CA-C	-5.59	103.53	110.41
33	BH	103	ILE	N-CA-C	-5.57	104.94	110.62
35	BJ	58	TYR	N-CA-C	-5.57	107.03	113.88
1	AA	250	A	C2'-C3'-O3'	5.54	117.81	109.50
27	BB	135	GLY	N-CA-C	-5.53	105.96	113.37
22	B0	1828	G	C2'-C3'-O3'	-5.53	105.41	113.70
22	B0	2333	A	C2'-C3'-O3'	-5.50	105.45	113.70
22	B0	2225	A	C2'-C3'-O3'	5.49	117.74	109.50
26	BA	68	ARG	N-CA-C	-5.48	101.08	109.41
26	BA	149	LYS	N-CA-C	5.47	122.46	110.80
1	AA	885	G	C2'-C3'-O3'	-5.45	105.53	113.70
1	AA	1528	U	C2'-C3'-O3'	-5.44	105.54	113.70
33	BH	139	VAL	N-CA-C	5.44	116.11	108.17
26	BA	196	ASN	N-CA-C	-5.44	104.40	111.74
33	BH	16	TYR	N-CA-C	5.42	118.82	110.42
28	BC	30	GLN	N-CA-C	-5.41	106.64	113.18
37	BL	83	LEU	N-CA-C	-5.40	106.27	112.86
1	AA	48	C	C2'-C3'-O3'	5.39	117.59	109.50
25	B5	25	ALA	N-CA-C	-5.36	104.31	111.87
35	BJ	137	ALA	N-CA-C	-5.34	106.76	113.28
40	BO	37	ALA	N-CA-C	-5.34	105.91	112.90
22	B0	2433	A	C2'-C3'-O3'	5.33	117.50	109.50
22	B0	990	A	C2'-C3'-O3'	5.32	117.48	109.50
22	B0	859	G	C2'-C3'-O3'	-5.31	105.73	113.70
40	BO	26	ALA	N-CA-C	-5.30	104.43	108.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BA	69	ASN	N-CA-C	5.30	120.61	114.04
46	BW	23	ARG	N-CA-C	-5.29	105.51	111.28
1	AA	1400	C	C2'-C3'-O3'	-5.28	105.78	113.70
37	BL	26	GLY	N-CA-C	-5.28	106.60	115.62
1	AA	50	A	C2'-C3'-O3'	5.24	117.36	109.50
28	BC	29	HIS	N-CA-C	-5.23	106.16	112.54
35	BJ	42	SER	CB-CA-C	-5.22	109.58	115.79
33	BH	112	GLY	C-N-CD	-5.21	109.15	120.60
1	AA	1322	C	C2'-C3'-O3'	-5.20	105.90	113.70
1	AA	545	C	OP2-P-O3'	5.19	123.58	108.00
10	AI	116	GLY	N-CA-C	-5.18	108.68	115.47
33	BH	30	THR	N-CA-C	-5.17	104.04	110.41
22	B0	2439	A	C2'-C3'-O3'	-5.17	105.95	113.70
29	BD	99	PHE	N-CA-C	-5.17	105.86	113.61
22	B0	1800	C	C2'-C3'-O3'	5.16	117.24	109.50
37	BL	79	LEU	N-CA-C	-5.16	106.09	112.38
22	B0	2835	A	C2'-C3'-O3'	-5.15	105.97	113.70
22	B0	2154	A	C2'-C3'-O3'	-5.15	105.98	113.70
22	B0	1653	G	O4'-C1'-C2'	5.13	110.94	105.80
37	BL	30	ARG	N-CA-C	-5.13	106.71	113.12
26	BA	141	HIS	N-CA-C	5.13	114.39	108.49
22	B0	2458	G	C2'-C3'-O3'	-5.11	106.04	113.70
22	B0	165	A	C2'-C3'-O3'	-5.09	106.06	113.70
1	AA	992	U	C2'-C3'-O3'	5.09	117.14	109.50
1	AA	449	G	C2'-C3'-O3'	5.08	117.12	109.50
17	AP	62	GLY	N-CA-C	-5.08	108.44	114.48
1	AA	889	A	C2'-C3'-O3'	-5.07	106.09	113.70
1	AA	436	C	C2'-C3'-O3'	5.06	117.09	109.50
27	BB	84	LEU	N-CA-C	5.05	116.45	110.19
26	BA	67	LYS	CB-CA-C	5.04	118.64	110.22
1	AA	60	A	C2'-C3'-O3'	5.04	117.06	109.50
36	BK	112	LEU	N-CA-C	-5.02	105.95	113.89
22	B0	120	U	C2'-C3'-O3'	5.02	117.03	109.50
22	B0	2778	A	C2'-C3'-O3'	5.02	117.03	109.50
40	BO	108	LEU	N-CA-C	-5.01	108.91	114.62
22	B0	411	G	C2'-C3'-O3'	-5.01	106.19	113.70

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	428	G	C1'
22	B0	1593	G	C1'

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Mol	Chain	Res	Type	Atom
22	B0	1653	G	C1'
22	B0	2143	C	C1'
22	B0	2250	G	C1'
22	B0	2655	G	C1'

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	538	G	Sidechain
1	AA	540	G	Sidechain
1	AA	541	G	Sidechain
22	B0	1418	G	Sidechain
22	B0	1579	A	Sidechain
22	B0	2137	U	Sidechain
22	B0	2165	C	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	AA	31924	0	16066	1592	0
2	AU	1622	0	821	101	0
2	AV	1622	0	821	75	0
2	AW	1622	0	821	79	0
3	AB	1847	0	1855	127	0
4	AC	1625	0	1699	170	0
5	AD	1638	0	1702	189	0
6	AE	1093	0	1132	120	0
7	AF	784	0	776	106	0
8	AG	1079	0	1108	97	0
9	AH	968	0	1021	99	0
10	AI	1014	0	1064	156	0
11	AJ	773	0	812	76	0
12	AK	870	0	878	101	0
13	AL	787	0	825	82	0
14	AM	892	0	954	67	0
15	AN	500	0	526	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	AO	697	0	716	75	0
17	AP	622	0	637	79	0
18	AQ	640	0	678	50	0
19	AR	576	0	599	56	0
20	AS	695	0	725	122	0
21	AT	649	0	697	71	0
22	B0	58824	0	29589	3957	0
23	B9	2310	0	1173	80	0
24	B2	1652	0	1730	181	0
25	B3	845	0	876	148	0
25	B5	845	0	878	138	0
26	BA	1733	0	1764	659	0
27	BB	1565	0	1612	270	0
28	BC	1531	0	1593	517	0
29	BD	1415	0	1451	175	0
30	BE	1253	0	1289	92	0
31	BF	1111	0	1146	50	0
32	BG	1019	0	1076	140	0
33	BH	1129	0	1162	279	0
34	BI	939	0	1011	97	0
35	BJ	1017	0	1086	293	0
36	BK	1036	0	1109	161	0
37	BL	908	0	946	184	0
38	BM	864	0	902	60	0
39	BN	917	0	965	241	0
40	BO	937	0	1008	256	0
41	BQ	825	0	886	230	0
42	BR	717	0	770	195	0
43	BS	762	0	809	74	0
44	BT	753	0	780	45	0
45	BU	634	0	656	170	0
46	BW	495	0	530	81	0
47	BX	435	0	470	41	0
48	BZ	234	0	235	44	0
49	B1	424	0	461	72	0
All	All	141668	0	94896	11058	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 47.

All (11058) 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)
22:B0:1579:A:C2	26:BA:67:LYS:CA	1.76	1.66
22:B0:1996:C:C2	27:BB:138:LEU:CA	1.77	1.62
22:B0:1579:A:C4	26:BA:67:LYS:CA	1.86	1.52
22:B0:1579:A:C4	26:BA:67:LYS:HA	1.38	1.52
22:B0:1421:G:N1	26:BA:149:LYS:CA	1.71	1.51
26:BA:149:LYS:CA	26:BA:149:LYS:N	1.75	1.50
22:B0:1579:A:N3	26:BA:67:LYS:HA	1.27	1.47
1:AA:418:C:C6	1:AA:541:G:OP1	1.73	1.39
27:BB:138:LEU:CA	27:BB:138:LEU:CB	1.98	1.38
22:B0:1421:G:C6	26:BA:149:LYS:CA	2.04	1.37
22:B0:1421:G:C6	26:BA:149:LYS:HA	1.59	1.36
1:AA:545:C:H4'	1:AA:549:C:C4'	1.56	1.35
22:B0:1579:A:N3	26:BA:67:LYS:CA	1.80	1.35
22:B0:1996:C:N3	27:BB:138:LEU:CA	1.86	1.35
26:BA:67:LYS:CA	26:BA:67:LYS:CB	2.03	1.35
22:B0:1996:C:N3	27:BB:138:LEU:HA	1.41	1.34
1:AA:424:G:N2	5:AD:39:GLN:OE1	1.61	1.31
1:AA:419:C:O3'	1:AA:540:G:N2	1.64	1.31
1:AA:418:C:O3'	1:AA:541:G:H8	1.08	1.30
22:B0:1579:A:C5	26:BA:67:LYS:CA	2.13	1.30
1:AA:424:G:N2	5:AD:39:GLN:CD	1.89	1.29
22:B0:1579:A:C2	26:BA:67:LYS:C	2.07	1.29
22:B0:1996:C:C4	27:BB:138:LEU:CA	2.15	1.27
22:B0:1421:G:C2	26:BA:149:LYS:CA	2.17	1.26
22:B0:1579:A:C6	26:BA:67:LYS:CA	2.19	1.25
22:B0:1579:A:N1	26:BA:67:LYS:CA	2.00	1.25
1:AA:418:C:O3'	1:AA:541:G:C8	1.89	1.24
1:AA:545:C:C4'	1:AA:549:C:H4'	1.68	1.23
22:B0:1996:C:N1	27:BB:138:LEU:CA	1.99	1.23
22:B0:1579:A:C5	26:BA:67:LYS:N	2.07	1.22
1:AA:419:C:H5''	1:AA:540:G:C2	1.77	1.20
22:B0:2894:U:H5'	33:BH:6:ALA:HB3	1.27	1.16
1:AA:244:U:H1'	1:AA:894:G:H1'	1.25	1.15
25:B3:93:ALA:HA	25:B5:8:ILE:HD11	1.28	1.15
22:B0:494:G:H1'	41:BQ:6:LYS:HB2	1.21	1.15
28:BC:34:ALA:HB3	35:BJ:19:LEU:H	1.11	1.15
26:BA:64:VAL:HG12	26:BA:65:ASP:H	1.08	1.14
28:BC:92:HIS:H	35:BJ:29:LYS:HG3	1.01	1.14
22:B0:2121:G:H4'	22:B0:2122:U:H5'	1.24	1.14
22:B0:1996:C:C6	27:BB:138:LEU:CA	2.30	1.13
1:AA:1286:U:H3'	1:AA:1287:A:H5''	1.15	1.13
1:AA:419:C:H1'	5:AD:39:GLN:HB2	1.21	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1385:G:H21	10:AI:128:LYS:HG3	1.15	1.12
22:B0:2124:G:H2'	22:B0:2125:G:H5''	1.31	1.12
22:B0:1996:C:C5	27:BB:138:LEU:N	2.19	1.11
2:AW:76:A:H1'	22:B0:2430:A:H5''	1.26	1.10
22:B0:480:A:H3'	22:B0:481:G:H5''	1.14	1.10
22:B0:2677:G:H4'	27:BB:160:LYS:HB2	1.32	1.10
22:B0:958:U:H3'	36:BK:80:VAL:HG23	1.25	1.10
26:BA:67:LYS:HD3	26:BA:186:ASP:HB3	1.30	1.10
28:BC:35:TYR:H	35:BJ:18:ARG:HB3	1.13	1.10
22:B0:2162:G:H3'	22:B0:2163:G:C5'	1.81	1.10
22:B0:493:G:H8	41:BQ:10:ALA:N	1.49	1.10
26:BA:140:VAL:HG23	26:BA:161:VAL:HG13	1.34	1.10
22:B0:800:A:H3'	28:BC:57:LYS:HB3	1.26	1.09
22:B0:492:A:H3'	41:BQ:9:HIS:HA	1.33	1.09
22:B0:658:U:H2'	28:BC:98:LYS:HG2	1.27	1.09
1:AA:421:U:O4	5:AD:43:ARG:HB2	1.51	1.08
22:B0:588:U:H3	28:BC:74:LYS:HG3	1.17	1.08
29:BD:110:ILE:HG22	29:BD:111:ARG:HE	0.98	1.08
22:B0:1496:A:N3	26:BA:142:ASN:HB2	1.68	1.07
22:B0:1965:C:H3'	22:B0:1966:A:H5''	1.35	1.07
22:B0:776:G:H4'	22:B0:777:G:H5''	1.29	1.07
6:AE:155:LYS:HE2	9:AH:67:GLY:HA3	1.31	1.07
26:BA:175:LEU:HD12	26:BA:176:ARG:H	1.19	1.07
37:BL:64:ARG:HH22	37:BL:67:PHE:HB3	1.16	1.07
33:BH:10:THR:HA	33:BH:13:ARG:HE	1.16	1.06
42:BR:10:VAL:HG11	42:BR:38:ALA:HB2	1.38	1.06
2:AU:58:A:H4'	2:AU:59:U:OP1	1.55	1.06
22:B0:958:U:H4'	36:BK:76:LYS:HB3	1.11	1.05
22:B0:992:C:H5''	40:BO:47:ARG:HB3	1.32	1.05
22:B0:1008:A:H4'	22:B0:1009:A:H5'	1.32	1.05
22:B0:2678:C:H5''	27:BB:124:ARG:HB3	1.36	1.05
27:BB:130:GLN:HB3	27:BB:134:HIS:HB3	1.37	1.05
1:AA:173:U:H5'	1:AA:197:A:H1'	1.36	1.05
22:B0:1578:U:H6	26:BA:101:ARG:HD3	1.15	1.05
45:BU:45:HIS:HB3	45:BU:79:ILE:HG21	1.38	1.05
4:AC:184:ASN:HD21	4:AC:199:VAL:HB	1.17	1.04
43:BS:25:LYS:HB3	43:BS:34:ILE:HG23	1.39	1.04
1:AA:1317:C:H41	20:AS:6:LYS:HA	1.18	1.04
22:B0:1996:C:C5	27:BB:138:LEU:CA	2.39	1.04
2:AU:46:G:H4'	2:AU:47:U:OP1	1.57	1.04
1:AA:718:A:O4'	12:AK:117:HIS:HA	1.55	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:58:A:H4'	2:AV:59:U:OP1	1.55	1.03
22:B0:1996:C:C4	27:BB:138:LEU:N	2.26	1.03
22:B0:1583:G:H22	26:BA:75:ALA:HA	1.18	1.03
26:BA:97:ASP:CG	26:BA:98:GLY:H	1.66	1.03
28:BC:153:LEU:HD13	28:BC:158:PHE:HB2	1.37	1.03
26:BA:163:ILE:HA	26:BA:173:LEU:HG	1.41	1.03
2:AW:46:G:H4'	2:AW:47:U:OP1	1.57	1.02
22:B0:1495:A:H3'	26:BA:190:THR:HA	1.37	1.02
39:BN:10:GLU:HG2	39:BN:11:GLN:H	1.23	1.02
1:AA:420:U:P	1:AA:540:G:H21	1.81	1.02
22:B0:2162:G:C3'	22:B0:2163:G:H5''	1.88	1.02
35:BJ:39:LYS:HG2	35:BJ:41:ARG:H	1.20	1.02
2:AW:58:A:H4'	2:AW:59:U:OP1	1.56	1.02
22:B0:1828:G:H4'	22:B0:1829:A:H5'	1.42	1.02
22:B0:2243:U:H1'	22:B0:2245:U:O4	1.59	1.02
22:B0:2501:C:H5''	22:B0:2503:A:H5'	1.41	1.02
22:B0:2137:U:H4'	22:B0:2138:G:OP1	1.53	1.02
28:BC:35:TYR:N	35:BJ:18:ARG:HB3	1.75	1.02
41:BQ:27:LYS:H	41:BQ:27:LYS:HD3	1.21	1.02
1:AA:1301:U:H5''	14:AM:12:LYS:HE2	1.43	1.01
22:B0:1426:G:H3'	22:B0:1428:C:H42	1.26	1.01
22:B0:774:G:H1'	22:B0:777:G:H21	1.24	1.01
22:B0:2176:A:O5'	24:B2:167:ASN:N	1.92	1.01
22:B0:2712:C:H1'	37:BL:15:SER:HB2	1.37	1.01
22:B0:1422:G:H2'	22:B0:1423:A:H5''	1.43	1.01
22:B0:1579:A:C6	26:BA:67:LYS:N	2.28	1.01
22:B0:2296:U:H4'	22:B0:2297:A:H5'	1.42	1.01
39:BN:86:LYS:HG3	39:BN:87:ARG:HD3	1.43	1.01
22:B0:2127:G:O3'	22:B0:2165:C:H2'	1.60	1.00
38:BM:25:ARG:HH21	38:BM:40:ILE:HD12	1.24	1.00
2:AV:36:A:H2'	2:AV:37:G:H5''	1.42	1.00
22:B0:2136:G:H2'	22:B0:2137:U:H5'	1.43	1.00
42:BR:25:GLU:HG3	42:BR:26:LYS:H	1.26	1.00
1:AA:1409:C:H4'	22:B0:1913:A:H4'	1.39	1.00
22:B0:662:G:H5''	28:BC:88:ARG:HG2	1.39	1.00
20:AS:83:ALA:HA	22:B0:891:G:N7	1.76	1.00
1:AA:418:C:C6	1:AA:541:G:P	2.53	1.00
1:AA:424:G:H1	5:AD:39:GLN:HE22	1.01	0.99
1:AA:1322:C:H4'	1:AA:1323:G:H5'	1.43	0.99
1:AA:420:U:P	1:AA:540:G:N2	2.36	0.99
40:BO:27:ARG:HE	40:BO:33:VAL:HB	1.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:419:C:H2'	5:AD:39:GLN:HG2	1.45	0.99
27:BB:160:LYS:H	27:BB:160:LYS:HD2	1.27	0.99
28:BC:186:VAL:HG22	28:BC:187:VAL:H	1.25	0.99
22:B0:961:C:H2'	22:B0:2497:A:O2'	1.60	0.99
28:BC:83:VAL:HG11	35:BJ:30:THR:HG23	1.45	0.99
1:AA:1139:G:H4'	1:AA:1140:C:H5'	1.44	0.98
1:AA:1286:U:C3'	1:AA:1287:A:H5''	1.93	0.98
2:AW:36:A:H2'	2:AW:37:G:H5''	1.40	0.98
22:B0:479:A:H4'	43:BS:59:GLU:HG2	1.42	0.98
25:B5:59:LYS:HE2	25:B5:118:GLU:HB3	1.44	0.98
22:B0:2680:U:H2'	22:B0:2681:C:H5''	1.42	0.98
33:BH:16:TYR:O	33:BH:17:VAL:HG13	1.63	0.98
49:B1:32:LYS:HA	49:B1:32:LYS:HZ2	1.29	0.98
22:B0:959:A:C8	36:BK:80:VAL:HG12	1.99	0.98
22:B0:1491:A:H8	26:BA:175:LEU:HB2	1.29	0.98
22:B0:1496:A:N1	26:BA:155:ARG:HA	1.78	0.97
42:BR:8:LEU:HB3	46:BW:29:ARG:HD2	1.44	0.97
26:BA:158:GLY:H	26:BA:194:VAL:HB	1.28	0.97
5:AD:120:LYS:HG2	5:AD:128:VAL:HG11	1.46	0.97
1:AA:419:C:O4'	1:AA:541:G:C4'	2.11	0.97
42:BR:67:VAL:HG12	42:BR:68:LYS:H	1.27	0.97
22:B0:628:G:H21	22:B0:638:G:H4'	1.27	0.97
28:BC:97:ASN:HD22	28:BC:100:MET:HE3	1.29	0.97
49:B1:42:VAL:HG22	49:B1:43:ARG:H	1.29	0.97
1:AA:1235:U:H2'	1:AA:1236:A:H5''	1.43	0.96
2:AU:36:A:H2'	2:AU:37:G:H5''	1.44	0.96
22:B0:2164:C:C4'	22:B0:2165:C:H1'	1.96	0.96
22:B0:2678:C:H42	22:B0:2729:G:H22	1.03	0.96
32:BG:6:ALA:HB3	32:BG:60:VAL:HG21	1.48	0.96
22:B0:799:G:H3'	28:BC:57:LYS:HB2	1.42	0.96
22:B0:1010:A:H5'	40:BO:62:ALA:HB1	1.46	0.96
37:BL:38:LEU:HB2	37:BL:39:PRO:HD3	1.47	0.96
13:AL:120:ARG:HH11	13:AL:120:ARG:HB3	1.29	0.96
22:B0:1996:C:C2	27:BB:138:LEU:C	2.42	0.96
29:BD:12:VAL:HG23	29:BD:13:LYS:HD2	1.46	0.96
22:B0:1992:G:H1	27:BB:138:LEU:HD11	1.30	0.96
22:B0:476:G:H22	22:B0:478:A:H3'	1.30	0.96
22:B0:1322:A:H61	22:B0:1333:G:H21	1.11	0.95
22:B0:1421:G:N1	26:BA:149:LYS:C	2.23	0.95
1:AA:1065:U:H5''	1:AA:1190:G:H21	1.28	0.95
29:BD:111:ARG:HH22	29:BD:134:GLN:HG3	1.30	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:417:G:N2	1:AA:427:U:H1'	1.81	0.95
24:B2:208:ILE:H	24:B2:208:ILE:HD13	1.30	0.95
45:BU:30:VAL:HG22	45:BU:31:LEU:HD23	1.48	0.95
1:AA:979:C:H5''	20:AS:5:LYS:HD2	1.48	0.95
22:B0:493:G:H5''	41:BQ:9:HIS:H	1.30	0.95
22:B0:2680:U:H5''	27:BB:114:LYS:HE2	1.44	0.95
1:AA:538:G:OP2	13:AL:111:GLN:CD	2.10	0.95
22:B0:2128:G:H4'	22:B0:2165:C:H3'	1.43	0.95
33:BH:33:ALA:HB2	33:BH:105:VAL:HG23	1.48	0.95
21:AT:23:ARG:HB3	21:AT:60:GLN:HE21	1.32	0.95
22:B0:1996:C:C2	27:BB:138:LEU:HA	1.69	0.95
28:BC:91:ASP:HA	35:BJ:29:LYS:HB3	1.48	0.95
35:BJ:118:THR:HG23	35:BJ:119:PRO:HA	1.48	0.95
22:B0:2676:C:H41	27:BB:128:ARG:HG3	1.32	0.95
42:BR:33:LYS:HA	42:BR:82:LYS:HB3	1.46	0.95
1:AA:979:C:H5''	20:AS:5:LYS:CD	1.96	0.95
22:B0:1578:U:OP2	26:BA:101:ARG:HD2	1.65	0.95
39:BN:50:ARG:HE	39:BN:100:ARG:HH21	1.05	0.95
22:B0:1488:G:O6	26:BA:156:SER:HB2	1.67	0.94
22:B0:1758:U:H3	22:B0:2695:U:H4'	1.29	0.94
22:B0:2169:A:H5''	22:B0:2170:A:OP2	1.66	0.94
26:BA:149:LYS:HZ2	26:BA:152:GLN:HG2	1.31	0.94
28:BC:178:VAL:HG13	28:BC:179:SER:H	1.29	0.94
39:BN:72:VAL:HG22	39:BN:73:PHE:H	1.32	0.94
22:B0:2164:C:H4'	22:B0:2165:C:H1'	1.46	0.94
33:BH:112:GLY:HA2	33:BH:113:PRO:O	1.68	0.94
22:B0:1043:C:H2'	22:B0:1044:C:H5''	1.47	0.94
39:BN:85:VAL:HG22	39:BN:86:LYS:H	1.32	0.94
11:AJ:57:VAL:HG12	11:AJ:58:ASN:H	1.29	0.94
22:B0:2143:C:O2'	22:B0:2144:G:H4'	1.68	0.94
24:B2:41:VAL:HG22	24:B2:215:THR:HG22	1.49	0.94
1:AA:1300:G:H4'	1:AA:1301:U:H5	1.33	0.94
22:B0:1578:U:H5''	26:BA:101:ARG:HD2	1.49	0.94
1:AA:107:G:H3'	1:AA:108:G:H21	1.32	0.94
1:AA:419:C:C2'	5:AD:39:GLN:HG2	1.98	0.93
1:AA:419:C:C3'	1:AA:540:G:H21	1.81	0.93
42:BR:30:ILE:HG12	42:BR:87:LEU:HD11	1.47	0.93
22:B0:800:A:H2	28:BC:60:TRP:H	1.05	0.93
1:AA:1186:G:H4'	10:AI:121:ARG:HA	1.48	0.93
1:AA:1519:A:H2'	1:AA:1520:C:H5'	1.49	0.93
22:B0:1996:C:N1	27:BB:138:LEU:C	2.27	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2861:U:HO2'	22:B0:2862:G:H8	1.07	0.93
28:BC:34:ALA:H	35:BJ:18:ARG:HG3	1.30	0.93
42:BR:16:VAL:HG12	42:BR:17:SER:H	1.30	0.93
22:B0:534:U:H3	22:B0:559:G:H22	1.17	0.93
22:B0:662:G:H5''	28:BC:88:ARG:CG	1.99	0.93
28:BC:35:TYR:H	35:BJ:18:ARG:CB	1.82	0.93
1:AA:1385:G:C2	10:AI:128:LYS:HE3	2.02	0.93
27:BB:74:GLU:HG2	27:BB:75:ALA:H	1.34	0.93
35:BJ:79:LEU:HB3	35:BJ:111:ILE:HG12	1.48	0.93
6:AE:54:GLU:HG3	6:AE:56:PRO:HD2	1.51	0.93
22:B0:411:G:H5''	22:B0:412:A:OP1	1.69	0.93
22:B0:799:G:OP2	28:BC:57:LYS:HG3	1.69	0.93
22:B0:2776:A:H5'	22:B0:2777:G:OP1	1.69	0.93
43:BS:61:GLU:HG2	43:BS:63:ALA:H	1.33	0.93
22:B0:121:G:H4'	22:B0:149:A:H5'	1.51	0.93
1:AA:1286:U:H3'	1:AA:1287:A:C5'	1.99	0.93
1:AA:1385:G:N2	10:AI:128:LYS:HG3	1.82	0.93
25:B5:81:LYS:H	25:B5:81:LYS:HD3	1.32	0.93
33:BH:114:LEU:H	33:BH:114:LEU:HD13	1.34	0.93
37:BL:97:ILE:HD12	37:BL:111:ALA:HB1	1.49	0.93
5:AD:33:ILE:HD11	5:AD:35:GLN:HE21	1.34	0.92
22:B0:1201:U:H3	22:B0:1245:G:H22	1.15	0.92
22:B0:826:U:H1'	35:BJ:55:MET:HE3	1.50	0.92
22:B0:864:G:H2'	22:B0:865:C:O4'	1.69	0.92
22:B0:1491:A:C8	26:BA:175:LEU:HB2	2.05	0.92
23:B9:84:G:H2'	23:B9:85:G:H5''	1.49	0.92
22:B0:1250:G:H4'	40:BO:8:ILE:HD12	1.49	0.92
22:B0:2894:U:OP1	33:BH:11:VAL:HG22	1.69	0.92
39:BN:29:VAL:HG22	39:BN:30:TRP:H	1.32	0.92
22:B0:480:A:H3'	22:B0:481:G:C5'	1.99	0.92
22:B0:699:A:H4'	22:B0:1634:A:N6	1.85	0.92
22:B0:1244:A:H4'	28:BC:33:VAL:HG12	1.51	0.92
22:B0:1582:C:H2'	26:BA:96:LYS:HB2	1.51	0.92
45:BU:66:VAL:HG22	45:BU:67:LYS:H	1.32	0.92
11:AJ:100:ILE:HD13	11:AJ:100:ILE:H	1.34	0.92
37:BL:75:ILE:HD13	37:BL:75:ILE:H	1.33	0.92
22:B0:960:A:H8	22:B0:2496:C:P	1.92	0.92
22:B0:1828:G:H5''	22:B0:1829:A:OP1	1.67	0.92
1:AA:545:C:H4'	1:AA:549:C:H4'	0.93	0.92
3:AB:36:LYS:HG3	3:AB:37:VAL:H	1.35	0.92
10:AI:57:VAL:HG23	10:AI:58:GLU:H	1.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1046:A:H3'	25:B5:29:LYS:HD2	1.51	0.92
22:B0:1832:C:H3'	22:B0:1833:C:H5''	1.50	0.92
26:BA:93:VAL:HG11	26:BA:103:ILE:HD12	1.52	0.92
29:BD:110:ILE:HG22	29:BD:111:ARG:NE	1.82	0.92
1:AA:1264:U:H3	1:AA:1271:A:N6	1.68	0.91
1:AA:566:G:H5''	1:AA:567:G:OP1	1.68	0.91
1:AA:1528:U:H5''	1:AA:1529:G:OP1	1.70	0.91
7:AF:81:ASN:HD21	7:AF:83:ALA:HB3	1.35	0.91
1:AA:979:C:H6	20:AS:5:LYS:HB2	1.34	0.91
29:BD:87:LYS:HZ3	29:BD:87:LYS:HB2	1.35	0.91
22:B0:1664:A:H61	22:B0:1996:C:H42	1.10	0.91
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.33	0.91
37:BL:99:LYS:HA	37:BL:111:ALA:HB2	1.51	0.91
33:BH:17:VAL:HG12	33:BH:55:ILE:N	1.86	0.91
33:BH:111:LYS:HZ3	33:BH:111:LYS:HA	1.33	0.91
10:AI:83:THR:HG21	10:AI:102:PHE:HB3	1.49	0.91
29:BD:68:LYS:H	29:BD:68:LYS:HD3	1.35	0.91
22:B0:918:A:H4'	23:B9:81:G:H4'	1.52	0.91
22:B0:1930:G:H4'	22:B0:1931:U:C5	2.06	0.91
27:BB:28:GLU:HA	27:BB:186:LEU:HD22	1.50	0.91
28:BC:182:ALA:HA	35:BJ:16:GLY:HA2	1.53	0.91
1:AA:483:C:H4'	1:AA:484:G:OP2	1.70	0.90
22:B0:321:U:H5''	22:B0:322:A:OP2	1.71	0.90
28:BC:34:ALA:HB3	35:BJ:19:LEU:N	1.86	0.90
1:AA:418:C:H6	1:AA:541:G:OP1	1.36	0.90
1:AA:1099:G:H2'	1:AA:1100:C:O4'	1.71	0.90
28:BC:92:HIS:N	35:BJ:29:LYS:HG3	1.84	0.90
1:AA:125:U:H3	1:AA:236:A:H61	1.18	0.90
37:BL:64:ARG:CZ	37:BL:64:ARG:HA	2.02	0.90
32:BG:79:LEU:HD11	32:BG:128:ILE:HD11	1.53	0.90
42:BR:29:THR:HA	42:BR:86:THR:HA	1.51	0.90
22:B0:1421:G:C5	26:BA:149:LYS:CA	2.55	0.90
22:B0:2678:C:C5'	27:BB:124:ARG:HB3	2.01	0.90
22:B0:2144:G:H2'	22:B0:2145:C:H5''	1.54	0.90
33:BH:122:LEU:H	33:BH:122:LEU:HD13	1.36	0.90
25:B3:57:ILE:HG12	25:B3:92:ALA:HB1	1.52	0.90
33:BH:100:VAL:HG13	33:BH:101:ILE:H	1.35	0.90
9:AH:116:ARG:HB2	9:AH:116:ARG:HH11	1.35	0.90
28:BC:49:ARG:HG3	28:BC:50:ALA:H	1.35	0.90
8:AG:78:ARG:HG3	8:AG:83:THR:HG22	1.53	0.90
28:BC:32:VAL:HB	35:BJ:17:LYS:HD3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AU:74:C:H2'	22:B0:2557:G:H4'	1.51	0.90
22:B0:600:G:C4	28:BC:99:LYS:HG2	2.06	0.90
22:B0:1131:G:H1'	33:BH:81:ILE:HD11	1.51	0.90
22:B0:2122:U:H4'	22:B0:2123:G:O5'	1.72	0.90
22:B0:2176:A:H5'	24:B2:165:ASP:C	1.97	0.90
22:B0:2263:C:H5''	45:BU:11:ASN:HA	1.52	0.90
22:B0:2128:G:OP2	22:B0:2166:U:H4'	1.71	0.89
26:BA:175:LEU:HD12	26:BA:176:ARG:N	1.86	0.89
41:BQ:35:ILE:HD13	41:BQ:36:LEU:N	1.87	0.89
22:B0:807:U:C4'	22:B0:2445:G:H4'	2.02	0.89
25:B3:51:LYS:HB3	25:B5:46:GLU:HB2	1.52	0.89
48:BZ:52:LYS:HE3	48:BZ:52:LYS:H	1.35	0.89
33:BH:16:TYR:HB3	33:BH:54:ILE:HG22	1.55	0.89
26:BA:137:GLY:H	26:BA:163:ILE:HB	1.34	0.89
39:BN:96:LEU:H	39:BN:96:LEU:HD13	1.37	0.89
42:BR:11:LEU:HA	42:BR:34:VAL:HA	1.52	0.89
17:AP:67:ILE:HD13	17:AP:67:ILE:H	1.38	0.89
22:B0:493:G:N2	41:BQ:7:HIS:HA	1.87	0.89
22:B0:1322:A:N6	22:B0:1333:G:H21	1.70	0.89
22:B0:2162:G:H3'	22:B0:2163:G:H5''	0.93	0.89
1:AA:588:G:H1	1:AA:651:C:H42	1.18	0.89
22:B0:733:G:H5''	22:B0:761:A:N6	1.88	0.89
22:B0:1201:U:H3	22:B0:1245:G:N2	1.69	0.89
22:B0:2678:C:N4	22:B0:2729:G:H22	1.70	0.89
22:B0:2897:U:C4	33:BH:14:ASP:HB2	2.08	0.89
39:BN:20:ARG:HG2	39:BN:25:VAL:HG21	1.55	0.89
22:B0:2333:A:H5''	22:B0:2334:U:OP1	1.72	0.89
26:BA:123:ILE:HD13	26:BA:123:ILE:H	1.35	0.89
22:B0:959:A:H2'	22:B0:2496:C:O5'	1.73	0.89
22:B0:1579:A:C4	26:BA:67:LYS:CG	2.41	0.89
33:BH:96:ARG:HD3	33:BH:99:ARG:H	1.36	0.89
42:BR:65:GLY:H	42:BR:77:ARG:NH2	1.69	0.89
6:AE:59:ILE:HG22	6:AE:63:MET:HE2	1.55	0.88
22:B0:2175:C:O3'	24:B2:167:ASN:HB3	1.72	0.88
40:BO:11:ALA:HA	40:BO:14:LYS:HE2	1.55	0.88
22:B0:2240:U:H2'	22:B0:2241:A:H8	1.39	0.88
22:B0:2543:G:H21	22:B0:2646:C:H4'	1.37	0.88
28:BC:181:ILE:HA	28:BC:186:VAL:HB	1.55	0.88
22:B0:658:U:H3	28:BC:99:LYS:HE2	1.37	0.88
22:B0:2121:G:H1	22:B0:2178:C:H41	1.18	0.88
22:B0:495:G:C5	41:BQ:6:LYS:HD3	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1495:A:H62	26:BA:142:ASN:ND2	1.70	0.88
48:BZ:31:LYS:H	48:BZ:31:LYS:HD3	1.38	0.88
22:B0:960:A:C8	22:B0:2496:C:H5'	2.08	0.88
22:B0:590:A:C8	28:BC:47:LYS:HA	2.08	0.88
25:B3:59:LYS:HE2	25:B3:118:GLU:HB3	1.55	0.88
46:BW:39:GLN:HA	46:BW:39:GLN:HE21	1.39	0.88
21:AT:68:LYS:H	21:AT:68:LYS:HD3	1.37	0.88
22:B0:528:A:H61	22:B0:2043:C:H5''	1.39	0.88
28:BC:36:ALA:H	35:BJ:18:ARG:HD3	1.39	0.88
1:AA:6:G:H1	6:AE:102:THR:HG23	1.40	0.87
26:BA:158:GLY:N	26:BA:194:VAL:HB	1.88	0.87
27:BB:157:LYS:H	27:BB:157:LYS:HD2	1.38	0.87
16:AO:28:VAL:HG11	16:AO:80:LEU:HD11	1.55	0.87
22:B0:2142:A:H2'	22:B0:2143:C:H5'	1.56	0.87
32:BG:48:ILE:HD13	32:BG:48:ILE:H	1.39	0.87
33:BH:136:GLN:H	33:BH:137:PRO:HD3	1.37	0.87
1:AA:727:G:H5''	1:AA:741:G:H22	1.39	0.87
22:B0:1047:G:OP1	25:B5:29:LYS:HD3	1.73	0.87
22:B0:859:G:H5''	22:B0:860:U:OP1	1.73	0.87
35:BJ:46:VAL:HG23	35:BJ:47:ARG:H	1.40	0.87
1:AA:419:C:H1'	5:AD:39:GLN:CB	2.03	0.87
22:B0:1578:U:C6	26:BA:101:ARG:HD3	2.08	0.87
22:B0:2164:C:H4'	22:B0:2165:C:C1'	2.03	0.87
22:B0:2756:U:O2'	22:B0:2757:A:H5''	1.73	0.87
28:BC:118:LEU:H	28:BC:118:LEU:HD23	1.39	0.87
1:AA:1381:U:H2'	8:AG:78:ARG:NE	1.90	0.87
34:BI:3:GLN:HB2	34:BI:31:ARG:HB3	1.57	0.87
42:BR:36:LYS:HD3	42:BR:36:LYS:H	1.39	0.87
1:AA:1194:U:H5''	6:AE:25:LYS:HD2	1.55	0.87
22:B0:1495:A:C2	26:BA:188:ARG:HB2	2.10	0.87
33:BH:84:ILE:HD13	33:BH:84:ILE:H	1.37	0.87
39:BN:88:ARG:HH11	39:BN:88:ARG:H	1.19	0.87
13:AL:55:ARG:HG2	13:AL:61:GLU:HG3	1.54	0.87
22:B0:961:C:H4'	22:B0:2498:C:C5	2.10	0.87
22:B0:2490:G:H5''	22:B0:2491:U:OP1	1.75	0.87
41:BQ:76:VAL:HA	41:BQ:102:HIS:O	1.75	0.87
7:AF:50:PRO:O	7:AF:51:ILE:HG13	1.75	0.86
31:BF:61:VAL:HG23	31:BF:62:LEU:HD12	1.55	0.86
1:AA:566:G:H4'	1:AA:567:G:H5'	1.57	0.86
22:B0:215:G:H4'	22:B0:216:A:H4'	1.55	0.86
22:B0:803:U:H3	28:BC:61:ARG:NH1	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1500:A:H61	26:BA:156:SER:HA	1.40	0.86
22:B0:1609:A:H1'	22:B0:1616:A:H1'	1.55	0.86
22:B0:2498:C:O2	22:B0:2498:C:H2'	1.73	0.86
1:AA:450:G:H1'	17:AP:13:LYS:HA	1.56	0.86
1:AA:1066:C:H2'	1:AA:1067:A:O4'	1.75	0.86
13:AL:79:ILE:HD13	13:AL:80:LEU:N	1.90	0.86
22:B0:800:A:OP2	28:BC:53:THR:HB	1.73	0.86
22:B0:958:U:H3'	36:BK:80:VAL:CG2	2.05	0.86
22:B0:2328:A:O2'	45:BU:9:THR:HA	1.75	0.86
22:B0:285:G:H22	22:B0:355:U:H3	1.23	0.86
22:B0:2227:A:H2'	22:B0:2228:G:H5'	1.55	0.86
9:AH:102:VAL:HG13	9:AH:125:ILE:HB	1.55	0.86
22:B0:1060:U:H1'	22:B0:1062:G:H5'	1.57	0.86
22:B0:1426:G:H3'	22:B0:1428:C:N4	1.88	0.86
28:BC:49:ARG:HB3	28:BC:49:ARG:HH11	1.38	0.86
4:AC:112:ALA:HB1	4:AC:184:ASN:HD22	1.39	0.86
24:B2:202:GLN:NE2	24:B2:202:GLN:H	1.73	0.86
1:AA:1385:G:N3	10:AI:128:LYS:HE3	1.90	0.86
22:B0:480:A:C3'	22:B0:481:G:H5''	2.03	0.86
22:B0:493:G:H3'	41:BQ:8:ARG:HA	1.56	0.86
22:B0:574:A:HO2'	22:B0:2055:C:H5	0.91	0.86
22:B0:1252:G:H1'	40:BO:32:ARG:NE	1.91	0.86
41:BQ:12:SER:HB3	41:BQ:17:VAL:HG21	1.57	0.86
4:AC:56:ILE:HG23	4:AC:63:ILE:HD11	1.58	0.86
10:AI:114:LYS:HB2	10:AI:120:ALA:HA	1.58	0.86
22:B0:2072:C:H42	22:B0:2437:G:H1	1.22	0.86
33:BH:111:LYS:HA	33:BH:111:LYS:NZ	1.89	0.86
32:BG:133:ARG:HA	32:BG:133:ARG:HE	1.39	0.85
22:B0:493:G:C5'	41:BQ:9:HIS:H	1.89	0.85
22:B0:958:U:H4'	36:BK:76:LYS:CB	2.03	0.85
4:AC:42:LEU:HA	4:AC:46:LEU:HD23	1.58	0.85
17:AP:6:LEU:HB3	17:AP:17:TYR:HB3	1.57	0.85
27:BB:114:LYS:HD3	27:BB:196:ALA:HB2	1.58	0.85
29:BD:47:LYS:HG2	29:BD:48:LEU:H	1.38	0.85
1:AA:979:C:OP2	20:AS:5:LYS:HG3	1.75	0.85
3:AB:185:ILE:HD13	3:AB:185:ILE:H	1.40	0.85
6:AE:33:THR:HG22	6:AE:51:LYS:HG3	1.56	0.85
22:B0:1314:C:H42	22:B0:1338:G:H1	1.20	0.85
22:B0:2176:A:H3'	24:B2:166:LYS:HA	1.56	0.85
26:BA:80:LEU:HD21	26:BA:89:ASN:HB2	1.59	0.85
2:AW:76:A:O2'	22:B0:2429:G:H2'	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:27:ILE:H	10:AI:34:LEU:HD11	1.40	0.85
1:AA:1221:G:H2'	20:AS:1:PRO:H2	1.39	0.85
2:AV:16:U:H5''	2:AV:17:U:OP1	1.75	0.85
4:AC:130:ARG:HE	6:AE:53:ARG:CD	1.88	0.85
27:BB:37:VAL:HA	27:BB:78:GLY:HA3	1.58	0.85
33:BH:68:LYS:HA	33:BH:68:LYS:NZ	1.92	0.85
22:B0:1201:U:H2'	35:BJ:14:LYS:HG2	1.58	0.85
22:B0:1770:G:H1	22:B0:1982:U:H3	1.21	0.85
24:B2:104:LYS:HZ1	24:B2:126:LEU:HD22	1.42	0.85
37:BL:44:LEU:O	37:BL:47:VAL:HG22	1.75	0.85
1:AA:421:U:O4	5:AD:43:ARG:CB	2.25	0.85
2:AV:18:G:H4'	2:AV:19:G:OP1	1.74	0.85
22:B0:838:C:H42	22:B0:940:G:H1	1.22	0.85
22:B0:1494:A:H4'	26:BA:140:VAL:HG21	1.59	0.85
43:BS:4:ILE:HD13	43:BS:4:ILE:H	1.40	0.85
1:AA:1302:C:H5'	14:AM:16:ILE:HG13	1.57	0.85
8:AG:149:ALA:HB2	12:AK:60:PHE:HB2	1.58	0.85
22:B0:750:A:H4'	22:B0:751:A:OP1	1.75	0.85
22:B0:2678:C:H5''	27:BB:125:TRP:H	1.42	0.85
28:BC:176:ASP:HB2	28:BC:178:VAL:HG12	1.58	0.85
40:BO:40:LYS:HA	40:BO:40:LYS:HE3	1.58	0.85
1:AA:531:U:H5''	1:AA:532:A:OP1	1.76	0.85
19:AR:33:THR:HG22	19:AR:34:GLU:H	1.41	0.85
22:B0:776:G:C4'	22:B0:777:G:H5''	2.07	0.85
22:B0:1490:C:H4'	26:BA:161:VAL:HA	1.59	0.85
22:B0:2644:G:H1	22:B0:2676:C:H1'	1.41	0.85
30:BE:34:ARG:HE	30:BE:70:LEU:HD13	1.40	0.85
1:AA:418:C:H6	1:AA:541:G:P	1.96	0.84
22:B0:960:A:C1'	22:B0:2496:C:H5''	2.07	0.84
29:BD:79:ARG:HG2	29:BD:80:GLN:H	1.42	0.84
1:AA:417:G:H22	1:AA:427:U:H1'	1.38	0.84
1:AA:971:G:H5''	1:AA:972:C:H5'	1.59	0.84
22:B0:1693:U:H5''	22:B0:1694:C:OP2	1.77	0.84
22:B0:2780:G:H4'	33:BH:116:ARG:HE	1.40	0.84
39:BN:105:LYS:HA	39:BN:105:LYS:NZ	1.91	0.84
41:BQ:88:ARG:HH12	41:BQ:92:ARG:HB3	1.43	0.84
42:BR:63:VAL:HG12	42:BR:81:LYS:HB2	1.59	0.84
4:AC:13:ILE:HD13	4:AC:177:LEU:HD23	1.56	0.84
22:B0:784:G:H5'	22:B0:785:G:OP1	1.77	0.84
26:BA:141:HIS:O	26:BA:189:ALA:HB1	1.78	0.84
45:BU:71:LYS:H	45:BU:71:LYS:HD2	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:56:MET:HB3	10:AI:60:LEU:HD13	1.59	0.84
22:B0:532:A:H5'	22:B0:561:G:H21	1.42	0.84
1:AA:424:G:C2	5:AD:39:GLN:OE1	2.30	0.84
5:AD:204:SER:HB2	6:AE:111:ARG:NH2	1.91	0.84
2:AU:74:C:H2'	22:B0:2557:G:C4'	2.07	0.84
22:B0:586:A:H4'	28:BC:78:TRP:HA	1.57	0.84
22:B0:590:A:H3'	28:BC:47:LYS:HZ1	1.42	0.84
28:BC:108:ILE:HD12	28:BC:180:LEU:HD12	1.59	0.84
22:B0:590:A:H3'	28:BC:47:LYS:NZ	1.91	0.84
22:B0:658:U:C2	28:BC:98:LYS:HD3	2.12	0.84
22:B0:2504:U:H1'	22:B0:2572:A:H2	1.43	0.84
2:AW:76:A:C1'	22:B0:2430:A:H5''	2.08	0.84
16:AO:28:VAL:HG23	16:AO:62:ARG:HG3	1.59	0.84
22:B0:1992:G:H1'	22:B0:1994:C:H5	1.42	0.84
22:B0:2127:G:H3'	22:B0:2166:U:C5'	2.07	0.84
22:B0:2175:C:N3	24:B2:171:HIS:ND1	2.25	0.84
43:BS:51:LEU:HB2	43:BS:53:GLN:HE22	1.43	0.84
13:AL:32:VAL:HG22	13:AL:78:VAL:HG22	1.60	0.84
22:B0:1492:G:OP2	26:BA:175:LEU:HD13	1.77	0.84
22:B0:2542:A:H4'	22:B0:2543:G:H5'	1.59	0.84
26:BA:184:GLU:HG2	26:BA:185:ALA:H	1.42	0.84
28:BC:93:SER:OG	35:BJ:23:ILE:HG23	1.78	0.84
39:BN:9:GLN:NE2	39:BN:9:GLN:H	1.75	0.84
1:AA:1264:U:H3	1:AA:1271:A:H61	0.90	0.84
1:AA:1300:G:H4'	1:AA:1301:U:C5	2.13	0.84
22:B0:1578:U:O2'	26:BA:65:ASP:C	2.21	0.84
41:BQ:74:ILE:HG22	41:BQ:105:VAL:HA	1.60	0.84
41:BQ:92:ARG:HG3	41:BQ:93:ALA:H	1.43	0.84
1:AA:424:G:H1	5:AD:39:GLN:NE2	1.76	0.83
2:AU:16:U:H5''	2:AU:17:U:OP1	1.77	0.83
27:BB:79:LEU:H	27:BB:79:LEU:HD22	1.43	0.83
2:AW:18:G:H4'	2:AW:19:G:OP1	1.77	0.83
36:BK:78:LEU:HG	36:BK:79:ALA:H	1.41	0.83
1:AA:517:G:H4'	1:AA:519:C:C2	2.13	0.83
22:B0:1496:A:N7	26:BA:194:VAL:HG13	1.92	0.83
30:BE:88:LEU:HD13	30:BE:88:LEU:H	1.43	0.83
33:BH:11:VAL:HG23	33:BH:12:LYS:HG2	1.60	0.83
33:BH:54:ILE:HG12	33:BH:122:LEU:HB3	1.58	0.83
41:BQ:83:LYS:HZ2	41:BQ:83:LYS:HB3	1.42	0.83
22:B0:749:A:H2'	22:B0:750:A:H5'	1.60	0.83
22:B0:1449:A:H1'	22:B0:1527:G:H22	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2120:G:H4'	22:B0:2121:G:O5'	1.76	0.83
22:B0:2685:G:H1	22:B0:2724:U:H3	1.25	0.83
42:BR:10:VAL:HG13	42:BR:35:ALA:HB3	1.61	0.83
1:AA:419:C:C5'	1:AA:540:G:C2	2.60	0.83
1:AA:1369:C:OP2	10:AI:112:ARG:HB3	1.79	0.83
22:B0:408:G:H1	22:B0:419:U:H3	1.24	0.83
20:AS:28:LYS:HB3	20:AS:29:PRO:HD2	1.61	0.83
22:B0:1579:A:P	26:BA:66:PHE:H	2.01	0.83
22:B0:1965:C:H3'	22:B0:1966:A:C5'	2.08	0.83
37:BL:34:ILE:HB	37:BL:113:ILE:HD13	1.59	0.83
1:AA:418:C:N1	1:AA:541:G:OP1	2.03	0.83
22:B0:2263:C:H4'	45:BU:9:THR:HB	1.61	0.83
28:BC:92:HIS:H	35:BJ:29:LYS:CG	1.88	0.83
39:BN:91:VAL:HG12	39:BN:92:ARG:H	1.43	0.83
42:BR:77:ARG:NH2	42:BR:79:ASP:H	1.77	0.83
1:AA:1317:C:N4	20:AS:6:LYS:HA	1.92	0.83
5:AD:148:ALA:HB1	5:AD:151:GLN:HE21	1.43	0.83
28:BC:134:LEU:HD13	28:BC:137:LYS:HZ1	1.42	0.83
1:AA:792:A:H5''	1:AA:793:U:OP1	1.77	0.83
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.78	0.83
4:AC:76:ILE:HA	4:AC:83:VAL:HG13	1.61	0.83
22:B0:48:G:O3'	22:B0:51:G:H5'	1.79	0.83
22:B0:1606:C:H4'	22:B0:1607:C:C6	2.13	0.83
38:BM:7:ARG:H	38:BM:7:ARG:HD3	1.44	0.83
5:AD:131:ILE:HG23	5:AD:134:TYR:HB2	1.60	0.83
22:B0:1408:G:H22	22:B0:1594:U:H3	1.26	0.83
22:B0:2162:G:N7	22:B0:2164:C:H3'	1.93	0.83
36:BK:80:VAL:O	36:BK:81:ARG:HB2	1.79	0.83
40:BO:2:ARG:HG2	40:BO:3:VAL:H	1.43	0.83
41:BQ:25:ARG:NE	41:BQ:25:ARG:H	1.76	0.83
5:AD:94:GLU:HG2	5:AD:185:PRO:HG3	1.61	0.82
10:AI:34:LEU:H	10:AI:34:LEU:HD12	1.44	0.82
22:B0:1246:A:H5''	35:BJ:25:SER:C	2.04	0.82
22:B0:2547:A:H62	22:B0:2566:A:H62	1.25	0.82
41:BQ:51:LEU:HA	41:BQ:105:VAL:HG11	1.59	0.82
13:AL:120:ARG:HB3	13:AL:120:ARG:NH1	1.93	0.82
43:BS:34:ILE:HB	43:BS:61:GLU:HG3	1.60	0.82
17:AP:7:ALA:HB3	17:AP:18:GLN:HB3	1.61	0.82
22:B0:493:G:C8	41:BQ:10:ALA:N	2.42	0.82
22:B0:956:G:H2'	36:BK:80:VAL:HG22	1.60	0.82
22:B0:2225:A:H4'	22:B0:2226:C:H5'	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1484:C:H4'	22:B0:1959:G:H21	1.44	0.82
3:AB:19:THR:HG23	3:AB:20:ARG:H	1.43	0.82
22:B0:301:G:H4'	22:B0:302:C:OP1	1.78	0.82
22:B0:668:A:H3'	22:B0:670:A:H61	1.45	0.82
24:B2:200:PRO:HG2	24:B2:203:ALA:HB2	1.59	0.82
39:BN:26:GLU:H	39:BN:88:ARG:HG3	1.43	0.82
2:AU:18:G:H4'	2:AU:19:G:OP1	1.77	0.82
22:B0:1542:C:H2'	22:B0:1543:G:H5'	1.61	0.82
22:B0:1582:C:H41	26:BA:73:ILE:HG21	1.42	0.82
1:AA:545:C:O2'	1:AA:549:C:O4'	1.97	0.82
2:AU:74:C:H4'	22:B0:2556:C:H2'	1.59	0.82
49:B1:12:SER:HA	49:B1:50:GLU:HA	1.60	0.82
22:B0:1830:C:H42	22:B0:1975:G:H22	1.25	0.82
22:B0:2153:C:O3'	22:B0:2154:A:H3'	1.80	0.82
26:BA:142:ASN:O	26:BA:189:ALA:HA	1.78	0.82
27:BB:165:MET:HE3	27:BB:166:GLY:H	1.44	0.82
33:BH:96:ARG:HB2	33:BH:97:PRO:HA	1.59	0.82
2:AV:20:G:H21	2:AV:22:G:H5'	1.45	0.82
22:B0:1668:A:H61	22:B0:1676:A:H61	1.25	0.82
1:AA:40:C:H2'	1:AA:41:G:H8	1.43	0.82
1:AA:499:A:H4'	1:AA:500:G:OP1	1.78	0.82
2:AU:64:A:H4'	22:B0:2482:A:H4'	1.61	0.82
17:AP:14:ARG:HB2	17:AP:14:ARG:NH1	1.95	0.82
22:B0:278:A:OP1	22:B0:363:G:H1'	1.79	0.82
22:B0:781:A:H1'	22:B0:1789:A:H4'	1.61	0.82
22:B0:959:A:N9	36:BK:80:VAL:HG12	1.94	0.82
24:B2:10:ILE:HD11	24:B2:32:LEU:HA	1.62	0.82
27:BB:36:GLN:HG2	27:BB:54:ALA:HA	1.62	0.82
28:BC:37:ALA:HB1	28:BC:40:ARG:HD2	1.62	0.82
22:B0:588:U:N3	28:BC:74:LYS:HG3	1.95	0.82
22:B0:2772:C:H4'	27:BB:168:GLU:HG3	1.61	0.82
1:AA:419:C:O4'	1:AA:541:G:H4'	1.80	0.81
22:B0:1090:A:H61	22:B0:1101:U:H3	1.25	0.81
22:B0:2439:A:H5''	22:B0:2440:C:OP1	1.78	0.81
25:B3:96:GLU:HB3	25:B5:8:ILE:HG23	1.61	0.81
26:BA:175:LEU:CG	26:BA:178:GLY:H	1.92	0.81
33:BH:102:GLU:HB2	33:BH:124:VAL:HG11	1.62	0.81
33:BH:123:LYS:HA	33:BH:123:LYS:NZ	1.94	0.81
1:AA:538:G:OP2	13:AL:111:GLN:NE2	2.13	0.81
16:AO:11:VAL:HG22	16:AO:30:LEU:HD11	1.61	0.81
22:B0:1061:U:H5''	22:B0:1062:G:OP2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:33:ARG:HB2	27:BB:81:GLU:HB2	1.62	0.81
30:BE:25:ILE:HD12	30:BE:78:VAL:HG21	1.61	0.81
1:AA:545:C:H4'	1:AA:549:C:C5'	2.10	0.81
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.79	0.81
3:AB:59:ILE:HD12	3:AB:66:ILE:HD11	1.60	0.81
8:AG:34:LYS:HE2	8:AG:37:THR:HB	1.59	0.81
9:AH:116:ARG:HB2	9:AH:116:ARG:NH1	1.96	0.81
10:AI:114:LYS:H	10:AI:120:ALA:HB2	1.45	0.81
22:B0:70:G:H4'	22:B0:73:A:O4'	1.80	0.81
22:B0:1496:A:H62	26:BA:194:VAL:CG2	1.93	0.81
26:BA:143:VAL:HG12	26:BA:189:ALA:HB1	1.61	0.81
28:BC:74:LYS:HB2	28:BC:74:LYS:HZ2	1.45	0.81
28:BC:147:LEU:HB3	28:BC:165:HIS:HB2	1.61	0.81
35:BJ:105:ILE:HG13	35:BJ:106:GLU:H	1.45	0.81
37:BL:63:ARG:NH1	37:BL:64:ARG:HE	1.79	0.81
37:BL:97:ILE:HD13	37:BL:98:LEU:H	1.44	0.81
39:BN:83:ILE:HD13	39:BN:84:SER:H	1.44	0.81
40:BO:73:ILE:HD12	40:BO:77:LYS:HB3	1.61	0.81
1:AA:545:C:O3'	1:AA:548:G:O2'	1.97	0.81
22:B0:958:U:C3'	36:BK:80:VAL:HG23	2.09	0.81
22:B0:1045:C:H4'	25:B5:29:LYS:HE3	1.61	0.81
22:B0:1299:G:H22	22:B0:1639:C:H5	1.24	0.81
22:B0:2050:C:H2'	22:B0:2051:A:O4'	1.81	0.81
40:BO:16:ILE:HG23	40:BO:17:LEU:HG	1.62	0.81
46:BW:42:LEU:HA	46:BW:45:GLN:HB2	1.62	0.81
1:AA:173:U:C5'	1:AA:197:A:H1'	2.09	0.81
3:AB:25:LYS:HA	3:AB:25:LYS:HE2	1.63	0.81
14:AM:89:ARG:HD2	14:AM:92:ARG:HH21	1.43	0.81
22:B0:2835:A:H5''	22:B0:2836:U:OP1	1.80	0.81
24:B2:25:ALA:HB1	24:B2:213:ILE:HG21	1.61	0.81
26:BA:67:LYS:HZ2	26:BA:188:ARG:HH22	1.28	0.81
26:BA:97:ASP:CG	26:BA:98:GLY:N	2.37	0.81
1:AA:595:A:H5''	1:AA:596:A:OP1	1.81	0.81
22:B0:658:U:H3'	28:BC:98:LYS:HE2	1.61	0.81
22:B0:1416:G:N1	26:BA:94:LEU:HA	1.96	0.81
22:B0:2161:C:H5'	24:B2:5:LYS:HA	1.62	0.81
22:B0:2161:C:C4'	22:B0:2162:G:H4'	2.11	0.81
28:BC:90:GLN:CG	35:BJ:27:LEU:HB2	2.10	0.81
42:BR:8:LEU:HD22	42:BR:11:LEU:HD21	1.61	0.81
22:B0:1943:U:O4'	22:B0:1945:G:H5'	1.80	0.81
22:B0:2680:U:C2'	22:B0:2681:C:H5''	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2788:C:H2'	22:B0:2891:A:C6	2.15	0.81
1:AA:419:C:O2'	5:AD:39:GLN:HB3	1.79	0.81
22:B0:1083:U:O2'	25:B3:81:LYS:HE2	1.80	0.81
22:B0:165:A:H5'	22:B0:172:A:OP1	1.81	0.81
44:BT:72:VAL:HG12	44:BT:93:ARG:HA	1.63	0.81
46:BW:44:LYS:O	46:BW:48:ARG:HD3	1.79	0.81
1:AA:1443:C:H5''	1:AA:1446:A:H5'	1.62	0.80
22:B0:1417:U:H3'	26:BA:99:GLU:O	1.81	0.80
22:B0:2789:C:OP1	22:B0:2809:A:H1'	1.81	0.80
25:B3:4:LYS:HE3	25:B3:4:LYS:HA	1.63	0.80
1:AA:391:G:H21	1:AA:483:C:H1'	1.46	0.80
22:B0:447:A:H4'	22:B0:449:A:N7	1.94	0.80
22:B0:493:G:C2	41:BQ:7:HIS:HA	2.16	0.80
22:B0:2360:G:H1'	35:BJ:60:ARG:HH22	1.46	0.80
22:B0:2458:G:H5''	22:B0:2459:A:OP1	1.80	0.80
28:BC:24:ASN:HB3	28:BC:27:LEU:HD23	1.61	0.80
28:BC:130:LYS:HB2	28:BC:133:LEU:HD13	1.60	0.80
37:BL:78:LYS:HE2	37:BL:78:LYS:HA	1.63	0.80
14:AM:4:ALA:H	14:AM:7:ASN:HD21	1.30	0.80
14:AM:80:MET:HG2	14:AM:91:ARG:HH21	1.46	0.80
22:B0:2161:C:H1'	22:B0:2162:G:C1'	2.12	0.80
47:BX:8:GLN:HA	47:BX:54:VAL:HG12	1.63	0.80
1:AA:827:U:H5'	9:AH:15:ASN:HD21	1.44	0.80
22:B0:1930:G:H4'	22:B0:1931:U:H5	1.44	0.80
22:B0:1931:U:H2'	22:B0:1932:A:H5''	1.64	0.80
22:B0:2286:G:H1	49:B1:35:LEU:HD11	1.46	0.80
22:B0:1046:A:O2'	25:B5:26:MET:HA	1.81	0.80
22:B0:1664:A:H61	22:B0:1996:C:N4	1.79	0.80
25:B3:86:LEU:HD12	25:B3:91:PRO:HB2	1.64	0.80
26:BA:175:LEU:HG	26:BA:178:GLY:H	1.45	0.80
19:AR:6:ARG:HH21	19:AR:42:ARG:HE	1.29	0.80
22:B0:712:G:H2'	22:B0:713:G:H8	1.46	0.80
33:BH:10:THR:HA	33:BH:13:ARG:NE	1.96	0.80
22:B0:1416:G:H1	26:BA:95:TYR:N	1.80	0.80
22:B0:2249:U:H1'	22:B0:2275:C:N4	1.96	0.80
22:B0:2678:C:H5''	27:BB:125:TRP:N	1.97	0.80
28:BC:88:ARG:H	28:BC:89:PRO:CD	1.94	0.80
40:BO:94:LEU:HD13	40:BO:95:ALA:N	1.96	0.80
41:BQ:25:ARG:HB2	41:BQ:74:ILE:HD11	1.64	0.80
45:BU:23:LYS:HZ2	45:BU:56:HIS:HB3	1.46	0.80
1:AA:419:C:P	1:AA:541:G:C8	2.74	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:531:C:H42	22:B0:563:G:H5''	1.47	0.80
22:B0:1491:A:O2'	22:B0:1493:A:H5'	1.80	0.80
27:BB:13:ARG:HE	27:BB:13:ARG:C	1.90	0.80
45:BU:65:LYS:HZ3	45:BU:65:LYS:HB2	1.47	0.80
48:BZ:54:ILE:HD13	48:BZ:54:ILE:H	1.47	0.80
22:B0:192:C:O2	28:BC:55:SER:HB2	1.80	0.80
1:AA:1322:C:H4'	1:AA:1323:G:C5'	2.12	0.80
22:B0:749:A:C2'	22:B0:750:A:H5'	2.12	0.80
33:BH:16:TYR:O	33:BH:54:ILE:HA	1.81	0.80
38:BM:15:ARG:HG3	38:BM:18:LEU:HD22	1.62	0.80
45:BU:38:ARG:HA	45:BU:38:ARG:CZ	2.12	0.80
1:AA:545:C:O2'	1:AA:548:G:O2'	1.98	0.79
22:B0:840:C:H2'	22:B0:841:G:H8	1.47	0.79
29:BD:16:MET:HA	29:BD:20:ASN:HD22	1.46	0.79
32:BG:121:ILE:H	32:BG:121:ILE:HD13	1.47	0.79
1:AA:181:A:O2'	1:AA:182:A:H5'	1.81	0.79
1:AA:979:C:H5'	20:AS:5:LYS:HZ3	1.46	0.79
2:AW:66:A:H4'	49:B1:4:ILE:HD13	1.64	0.79
13:AL:84:GLY:H	13:AL:94:TYR:HA	1.46	0.79
17:AP:35:ARG:H	17:AP:35:ARG:HD2	1.45	0.79
22:B0:960:A:C8	22:B0:2496:C:C5'	2.66	0.79
22:B0:2121:G:C4'	22:B0:2122:U:H5'	2.08	0.79
36:BK:5:LYS:H	36:BK:5:LYS:HD3	1.45	0.79
41:BQ:78:GLU:HG3	41:BQ:79:GLY:H	1.47	0.79
1:AA:419:C:O4'	1:AA:541:G:O2'	2.01	0.79
1:AA:979:C:C6	20:AS:5:LYS:HB2	2.16	0.79
22:B0:500:G:H4'	22:B0:503:A:H62	1.47	0.79
42:BR:36:LYS:HB3	42:BR:80:TRP:HA	1.62	0.79
45:BU:20:LEU:HD23	45:BU:20:LEU:H	1.47	0.79
13:AL:42:LYS:HG3	13:AL:44:PRO:HD2	1.63	0.79
22:B0:669:G:N3	28:BC:66:GLY:HA2	1.97	0.79
22:B0:1416:G:H8	26:BA:100:ARG:HH11	1.31	0.79
22:B0:1495:A:C2	26:BA:65:ASP:HB2	2.18	0.79
22:B0:2319:G:H4'	22:B0:2320:U:O5'	1.82	0.79
25:B5:4:LYS:HA	25:B5:4:LYS:HE3	1.64	0.79
26:BA:62:ARG:HH21	26:BA:151:GLY:N	1.80	0.79
44:BT:44:HIS:HE1	44:BT:86:LEU:H	1.28	0.79
10:AI:112:ARG:HH12	10:AI:113:LYS:HE3	1.45	0.79
22:B0:163:C:H5'	22:B0:164:C:H5'	1.65	0.79
22:B0:1418:G:H2'	22:B0:1578:U:O4	1.81	0.79
22:B0:1500:A:H61	26:BA:156:SER:CA	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1815:A:H4'	22:B0:1816:C:H5''	1.64	0.79
41:BQ:7:HIS:CD2	41:BQ:103:ILE:HB	2.17	0.79
11:AJ:14:ASP:HB3	11:AJ:17:LEU:HG	1.63	0.79
19:AR:7:ARG:HD3	19:AR:7:ARG:H	1.47	0.79
22:B0:476:G:N2	22:B0:478:A:H3'	1.96	0.79
23:B9:89:U:H2'	23:B9:90:C:H5'	1.65	0.79
37:BL:50:PRO:O	37:BL:51:LEU:HB2	1.83	0.79
46:BW:31:GLN:HG2	46:BW:38:GLN:CD	2.07	0.79
49:B1:9:LYS:H	49:B1:9:LYS:HD2	1.46	0.79
16:AO:13:GLU:HG3	16:AO:14:PHE:HD1	1.47	0.79
22:B0:1582:C:H2'	26:BA:96:LYS:CB	2.12	0.79
22:B0:2161:C:H4'	22:B0:2162:G:H4'	1.62	0.79
22:B0:2296:U:O4	22:B0:2334:U:H4'	1.83	0.79
22:B0:2547:A:H62	22:B0:2566:A:N6	1.81	0.79
29:BD:107:VAL:HG12	29:BD:110:ILE:HD11	1.65	0.79
33:BH:17:VAL:HG12	33:BH:55:ILE:H	1.44	0.79
6:AE:65:LYS:HE2	6:AE:65:LYS:HA	1.65	0.79
8:AG:28:ILE:HD13	8:AG:100:MET:HB3	1.62	0.79
20:AS:86:LYS:H	20:AS:86:LYS:HD3	1.48	0.79
22:B0:1495:A:H5''	26:BA:191:LEU:HB2	1.63	0.79
22:B0:1646:C:H5''	22:B0:1647:U:OP1	1.82	0.79
22:B0:2354:C:H4'	45:BU:20:LEU:HD13	1.65	0.79
33:BH:17:VAL:HG11	33:BH:55:ILE:HG22	1.65	0.79
49:B1:5:ARG:HA	49:B1:5:ARG:CZ	2.13	0.79
1:AA:21:G:H1'	1:AA:914:A:H61	1.48	0.79
1:AA:417:G:H2'	1:AA:541:G:OP1	1.83	0.79
1:AA:450:G:H4'	17:AP:15:PRO:HG3	1.64	0.79
20:AS:18:VAL:HG21	20:AS:43:MET:HG2	1.65	0.79
22:B0:663:G:H5''	28:BC:87:ALA:HB3	1.64	0.79
22:B0:1580:A:O4'	26:BA:68:ARG:HB3	1.82	0.79
22:B0:2320:U:H5'	22:B0:2321:U:C5	2.17	0.79
32:BG:3:LYS:HE2	32:BG:3:LYS:HA	1.65	0.79
33:BH:105:VAL:HA	33:BH:108:MET:HE1	1.65	0.79
36:BK:71:LYS:O	36:BK:93:VAL:HG12	1.83	0.79
22:B0:1494:A:OP1	26:BA:143:VAL:HG11	1.82	0.78
22:B0:1578:U:H5''	26:BA:101:ARG:CD	2.13	0.78
36:BK:14:LYS:HG3	36:BK:15:GLY:H	1.45	0.78
1:AA:1222:G:O4'	20:AS:1:PRO:HA	1.83	0.78
6:AE:155:LYS:HE2	9:AH:67:GLY:CA	2.11	0.78
10:AI:18:VAL:HG22	10:AI:64:ILE:HD12	1.65	0.78
22:B0:596:U:H2'	22:B0:597:G:H8	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:64:LEU:HB3	24:B2:65:PRO:HD2	1.63	0.78
26:BA:64:VAL:HG12	26:BA:65:ASP:N	1.90	0.78
32:BG:91:LYS:HD3	32:BG:91:LYS:H	1.48	0.78
1:AA:109:A:H1'	1:AA:327:A:H1'	1.64	0.78
3:AB:110:ILE:HD13	3:AB:147:LEU:HD13	1.63	0.78
29:BD:77:LYS:HA	29:BD:77:LYS:HE3	1.65	0.78
39:BN:87:ARG:HD3	39:BN:87:ARG:H	1.48	0.78
1:AA:702:A:H62	22:B0:1847:A:H3'	1.47	0.78
1:AA:979:C:H5''	20:AS:5:LYS:CG	2.13	0.78
22:B0:809:G:H22	28:BC:77:ILE:HD13	1.49	0.78
22:B0:1579:A:C2	26:BA:68:ARG:N	2.52	0.78
22:B0:2327:A:H2'	45:BU:10:ARG:CZ	2.14	0.78
28:BC:159:LEU:HD12	28:BC:162:ARG:HD3	1.63	0.78
37:BL:113:ILE:H	37:BL:113:ILE:HD12	1.45	0.78
42:BR:92:ASN:C	42:BR:93:LEU:HD13	2.07	0.78
4:AC:63:ILE:HD12	4:AC:65:VAL:HG23	1.63	0.78
4:AC:99:GLN:HG3	4:AC:100:ILE:H	1.49	0.78
9:AH:17:GLN:HE22	9:AH:71:VAL:HB	1.49	0.78
27:BB:53:GLY:HA2	27:BB:60:VAL:HG21	1.63	0.78
32:BG:108:ILE:HD13	32:BG:108:ILE:H	1.47	0.78
33:BH:36:LEU:HD12	33:BH:51:GLY:HA2	1.64	0.78
39:BN:88:ARG:HH11	39:BN:88:ARG:N	1.81	0.78
42:BR:62:VAL:HA	42:BR:81:LYS:HB3	1.63	0.78
1:AA:1235:U:C2'	1:AA:1236:A:H5''	2.14	0.78
22:B0:495:G:N7	41:BQ:6:LYS:HD3	1.99	0.78
26:BA:149:LYS:HG3	26:BA:150:GLY:H	1.47	0.78
3:AB:23:ASN:HD22	3:AB:24:PRO:HD2	1.49	0.78
22:B0:276:U:O2	22:B0:362:A:H3'	1.84	0.78
22:B0:668:A:H3'	22:B0:670:A:N6	1.98	0.78
22:B0:942:G:H2'	22:B0:943:A:H5'	1.63	0.78
22:B0:1061:U:H1'	22:B0:1070:A:H1'	1.65	0.78
22:B0:2263:C:H6	45:BU:11:ASN:N	1.82	0.78
27:BB:137:SER:C	27:BB:139:SER:H	1.91	0.78
28:BC:5:LEU:HD22	28:BC:15:SER:HB2	1.65	0.78
28:BC:36:ALA:N	35:BJ:18:ARG:HD3	1.99	0.78
36:BK:73:ILE:HG13	36:BK:90:GLU:HB3	1.64	0.78
37:BL:90:ARG:HA	37:BL:90:ARG:HH11	1.47	0.78
40:BO:43:GLN:C	40:BO:45:ALA:H	1.90	0.78
1:AA:150:U:H3	1:AA:171:A:H62	1.32	0.78
14:AM:94:LEU:HB3	14:AM:95:PRO:HD2	1.66	0.78
22:B0:1992:G:N1	27:BB:138:LEU:HD11	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2266:A:H1'	22:B0:2272:U:H3	1.47	0.78
28:BC:118:LEU:HD13	28:BC:186:VAL:HG13	1.65	0.78
1:AA:1053:G:O6	1:AA:1199:U:H2'	1.84	0.78
1:AA:1064:G:H5''	1:AA:1065:U:OP1	1.83	0.78
5:AD:120:LYS:HE2	5:AD:128:VAL:HG21	1.64	0.78
8:AG:26:VAL:O	8:AG:30:MET:HB2	1.82	0.78
19:AR:58:ILE:HG22	19:AR:62:ARG:HH11	1.49	0.78
22:B0:493:G:H8	41:BQ:10:ALA:H	1.31	0.78
22:B0:1607:C:O2	22:B0:1607:C:H2'	1.84	0.78
27:BB:34:VAL:HG21	27:BB:85:ALA:HB3	1.66	0.78
29:BD:116:LEU:HD23	29:BD:116:LEU:H	1.46	0.78
35:BJ:92:LEU:H	35:BJ:92:LEU:HD13	1.47	0.78
41:BQ:84:ARG:HB3	41:BQ:96:ILE:HB	1.63	0.78
1:AA:817:C:H1'	1:AA:819:A:OP2	1.82	0.78
10:AI:105:ARG:HG2	10:AI:106:ASP:H	1.49	0.78
22:B0:58:G:OP1	42:BR:77:ARG:HA	1.83	0.78
22:B0:659:G:O4'	28:BC:98:LYS:HG3	1.83	0.78
22:B0:1494:A:OP2	26:BA:143:VAL:HB	1.84	0.78
22:B0:1828:G:H4'	22:B0:1829:A:C5'	2.13	0.78
22:B0:2136:G:H3'	22:B0:2136:G:N3	1.99	0.78
24:B2:22:ILE:HG23	24:B2:188:LEU:HD23	1.66	0.78
26:BA:77:VAL:HG13	26:BA:92:LEU:H	1.48	0.78
28:BC:44:ARG:HA	28:BC:89:PRO:C	2.09	0.78
33:BH:36:LEU:H	33:BH:36:LEU:HD22	1.48	0.78
6:AE:87:VAL:HG12	6:AE:92:ARG:HG3	1.66	0.77
22:B0:481:G:H4'	22:B0:506:G:H21	1.48	0.77
22:B0:1197:G:C2	22:B0:1250:G:H1'	2.19	0.77
39:BN:50:ARG:HE	39:BN:100:ARG:NH2	1.80	0.77
1:AA:1339:A:C2	2:AV:31:A:H4'	2.20	0.77
1:AA:1422:G:H5'	34:BI:48:PRO:HG2	1.67	0.77
22:B0:481:G:H21	22:B0:506:G:H4'	1.48	0.77
22:B0:855:G:H1	22:B0:922:C:H42	1.30	0.77
22:B0:960:A:O4'	22:B0:2496:C:H5''	1.82	0.77
22:B0:1698:A:H5''	22:B0:1699:G:OP1	1.83	0.77
22:B0:2049:G:H2'	22:B0:2050:C:C6	2.19	0.77
24:B2:76:VAL:HG11	24:B2:86:ALA:HB1	1.66	0.77
28:BC:90:GLN:HG2	35:BJ:27:LEU:HB2	1.66	0.77
34:BI:38:ILE:H	34:BI:38:ILE:HD13	1.47	0.77
49:B1:32:LYS:HA	49:B1:32:LYS:NZ	1.98	0.77
22:B0:1779:U:H5''	22:B0:1780:A:H5'	1.65	0.77
22:B0:2357:G:H5''	22:B0:2358:A:OP1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B5:57:ILE:HG12	25:B5:120:LYS:HZ3	1.48	0.77
27:BB:13:ARG:HD3	39:BN:10:GLU:HG3	1.66	0.77
27:BB:137:SER:O	27:BB:139:SER:N	2.17	0.77
33:BH:54:ILE:HG12	33:BH:122:LEU:CB	2.14	0.77
41:BQ:25:ARG:CZ	41:BQ:26:GLY:H	1.97	0.77
8:AG:29:LEU:HD23	8:AG:42:VAL:HG22	1.65	0.77
22:B0:802:A:OP2	28:BC:62:GLN:HB2	1.83	0.77
22:B0:2553:G:H3'	22:B0:2554:U:H5''	1.66	0.77
22:B0:2609:U:H2'	22:B0:2610:C:H5'	1.64	0.77
1:AA:1222:G:C1'	20:AS:1:PRO:HA	2.14	0.77
4:AC:130:ARG:HE	6:AE:53:ARG:HD3	1.48	0.77
22:B0:150:U:H4'	22:B0:1359:A:H4'	1.66	0.77
22:B0:1083:U:C2'	25:B3:81:LYS:HE2	2.15	0.77
22:B0:1580:A:H4'	26:BA:70:LYS:C	2.10	0.77
22:B0:1583:G:C5	26:BA:96:LYS:HE2	2.20	0.77
33:BH:72:LYS:HA	33:BH:72:LYS:NZ	1.98	0.77
35:BJ:41:ARG:CZ	35:BJ:41:ARG:HA	2.14	0.77
1:AA:975:A:H4'	1:AA:976:G:H5''	1.66	0.77
21:AT:8:LYS:HG3	21:AT:12:GLN:HE21	1.48	0.77
22:B0:269:C:H42	22:B0:370:G:H1	1.31	0.77
22:B0:800:A:H5''	22:B0:801:G:OP1	1.85	0.77
22:B0:2478:A:H2'	22:B0:2529:G:N7	2.00	0.77
26:BA:149:LYS:CG	26:BA:150:GLY:H	1.98	0.77
35:BJ:55:MET:H	35:BJ:56:PRO:HA	1.48	0.77
39:BN:36:LYS:HD3	39:BN:37:LYS:HG3	1.67	0.77
22:B0:311:A:O2'	22:B0:331:C:H3'	1.85	0.77
22:B0:828:U:O2	22:B0:828:U:H2'	1.82	0.77
22:B0:1646:C:H4'	22:B0:1647:U:O5'	1.83	0.77
26:BA:63:ILE:H	26:BA:63:ILE:HD12	1.49	0.77
27:BB:81:GLU:O	27:BB:82:PHE:HB2	1.83	0.77
35:BJ:39:LYS:HZ3	35:BJ:41:ARG:HG2	1.49	0.77
39:BN:62:LYS:HA	39:BN:62:LYS:NZ	1.99	0.77
39:BN:88:ARG:N	39:BN:88:ARG:HD3	2.00	0.77
1:AA:933:G:C2	10:AI:128:LYS:HB2	2.20	0.77
1:AA:1237:C:H2'	1:AA:1334:G:H1'	1.65	0.77
22:B0:123:G:H4'	22:B0:1376:C:H5'	1.66	0.77
22:B0:532:A:H5'	22:B0:561:G:N2	1.99	0.77
22:B0:1047:G:H2'	22:B0:1110:G:H22	1.47	0.77
22:B0:1815:A:H4'	22:B0:1816:C:C5'	2.14	0.77
22:B0:2240:U:H2'	22:B0:2241:A:C8	2.19	0.77
25:B3:42:ALA:O	25:B3:45:VAL:HG13	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BQ:87:PRO:HA	41:BQ:88:ARG:HH21	1.49	0.77
1:AA:481:G:H4'	1:AA:482:A:OP1	1.83	0.77
7:AF:18:VAL:HB	7:AF:19:PRO:HD3	1.65	0.77
22:B0:791:C:O2'	22:B0:792:A:H5''	1.85	0.77
22:B0:2179:C:C3'	22:B0:2180:U:H3'	2.15	0.77
22:B0:2728:U:H2'	22:B0:2729:G:H8	1.49	0.77
35:BJ:39:LYS:HE3	35:BJ:39:LYS:N	1.99	0.77
35:BJ:77:ILE:HG23	35:BJ:111:ILE:HD11	1.66	0.77
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.67	0.77
22:B0:1495:A:H3'	26:BA:190:THR:CA	2.16	0.77
22:B0:1972:G:H2'	22:B0:1973:G:H8	1.50	0.77
49:B1:36:LYS:H	49:B1:36:LYS:HE3	1.50	0.77
22:B0:629:G:H4'	22:B0:638:G:H21	1.50	0.76
2:AW:36:A:C2'	2:AW:37:G:H5''	2.14	0.76
7:AF:39:LEU:HD23	7:AF:62:MET:HG2	1.66	0.76
22:B0:532:A:H5''	22:B0:533:G:OP2	1.85	0.76
22:B0:535:G:H1'	40:BO:52:ARG:HG3	1.66	0.76
26:BA:115:ILE:HD13	26:BA:115:ILE:H	1.50	0.76
2:AU:16:U:H4'	2:AU:18:G:OP2	1.85	0.76
17:AP:20:VAL:HG11	17:AP:32:PHE:HB2	1.67	0.76
22:B0:1996:C:C4	27:BB:138:LEU:CG	2.54	0.76
22:B0:2816:G:H4'	48:BZ:51:ARG:HH21	1.48	0.76
22:B0:475:C:H4'	22:B0:510:C:H5'	1.68	0.76
22:B0:959:A:N3	36:BK:79:ALA:HB1	2.00	0.76
22:B0:1421:G:C2	26:BA:149:LYS:HG2	2.21	0.76
27:BB:24:VAL:HG11	27:BB:188:LEU:HB3	1.65	0.76
37:BL:10:LEU:O	37:BL:10:LEU:HD22	1.85	0.76
37:BL:83:LEU:H	37:BL:86:ARG:HD3	1.48	0.76
39:BN:10:GLU:CG	39:BN:11:GLN:H	1.99	0.76
39:BN:47:ILE:HG22	39:BN:48:ALA:H	1.50	0.76
43:BS:90:LYS:HA	43:BS:90:LYS:HE3	1.65	0.76
1:AA:274:A:H4'	1:AA:275:G:O5'	1.85	0.76
22:B0:993:G:H5''	40:BO:49:ARG:NH1	2.00	0.76
22:B0:1578:U:HO2'	26:BA:65:ASP:C	1.94	0.76
22:B0:2124:G:C2'	22:B0:2125:G:H5''	2.13	0.76
29:BD:43:ILE:H	29:BD:43:ILE:HD12	1.49	0.76
31:BF:26:ALA:HA	31:BF:30:LEU:HD13	1.66	0.76
33:BH:36:LEU:HD12	33:BH:52:ASP:H	1.51	0.76
39:BN:63:ILE:HD11	39:BN:74:GLN:HE21	1.50	0.76
1:AA:189:A:H2'	1:AA:190:A:O4'	1.84	0.76
2:AW:20:G:H21	2:AW:22:G:H5'	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:960:A:N6	22:B0:2250:G:O2'	2.17	0.76
22:B0:1416:G:N2	26:BA:94:LEU:HD13	2.00	0.76
22:B0:2515:C:N4	27:BB:152:PRO:HB2	2.01	0.76
39:BN:10:GLU:HG2	39:BN:11:GLN:N	2.00	0.76
40:BO:54:ARG:H	40:BO:57:ARG:HG3	1.49	0.76
41:BQ:45:VAL:HA	41:BQ:48:LYS:HG2	1.66	0.76
2:AV:36:A:C2'	2:AV:37:G:H5''	2.16	0.76
9:AH:9:MET:HG3	9:AH:26:MET:HG3	1.67	0.76
22:B0:119:A:H4'	22:B0:120:U:H3'	1.68	0.76
22:B0:800:A:O2'	22:B0:801:G:H5''	1.85	0.76
22:B0:1388:G:H4'	22:B0:1524:C:O2'	1.86	0.76
22:B0:2128:G:P	22:B0:2165:C:H2'	2.25	0.76
22:B0:2677:G:N3	27:BB:125:TRP:HE3	1.84	0.76
28:BC:88:ARG:NE	35:BJ:29:LYS:O	2.18	0.76
1:AA:176:C:H2'	1:AA:177:G:H8	1.50	0.76
13:AL:79:ILE:HD13	13:AL:80:LEU:H	1.49	0.76
22:B0:2137:U:O2	22:B0:2137:U:H2'	1.84	0.76
22:B0:2472:G:H2'	22:B0:2475:C:N4	2.01	0.76
22:B0:2678:C:H5'	27:BB:124:ARG:NE	2.01	0.76
24:B2:170:ILE:HD13	24:B2:171:HIS:N	2.01	0.76
2:AW:16:U:H5''	2:AW:17:U:OP1	1.85	0.76
22:B0:2076:U:H5''	22:B0:2238:G:H1	1.50	0.76
22:B0:2382:G:H5''	22:B0:2383:G:C5'	2.16	0.76
1:AA:345:C:H4'	1:AA:346:G:H5''	1.67	0.76
17:AP:9:HIS:CE1	17:AP:18:GLN:HB2	2.21	0.76
21:AT:17:ARG:HA	21:AT:20:ASN:HD21	1.51	0.76
22:B0:65:U:H5''	42:BR:74:ILE:HG12	1.67	0.76
22:B0:588:U:C2	28:BC:74:LYS:HA	2.20	0.76
22:B0:960:A:H8	22:B0:2496:C:OP2	1.68	0.76
22:B0:960:A:C3'	22:B0:2496:C:H5''	2.16	0.76
22:B0:1128:G:N3	22:B0:2517:C:H4'	2.00	0.76
22:B0:1491:A:H5''	26:BA:153:LEU:HD21	1.68	0.76
22:B0:1668:A:N6	22:B0:1676:A:H61	1.84	0.76
22:B0:2450:A:H5''	22:B0:2497:A:H62	1.51	0.76
33:BH:55:ILE:HD13	33:BH:56:VAL:H	1.49	0.76
40:BO:53:LYS:HA	40:BO:53:LYS:HE3	1.65	0.76
1:AA:1064:G:H4'	1:AA:1065:U:H4'	1.66	0.75
22:B0:301:G:H1'	22:B0:302:C:H5'	1.67	0.75
22:B0:860:U:H2'	22:B0:861:A:H8	1.49	0.75
22:B0:1512:C:H2'	22:B0:1513:C:H5''	1.65	0.75
22:B0:2391:G:H1'	22:B0:2429:G:N2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:144:GLU:HG2	26:BA:151:GLY:N	2.01	0.75
39:BN:92:ARG:CZ	39:BN:92:ARG:HA	2.15	0.75
22:B0:2243:U:H5'	22:B0:2244:U:OP1	1.86	0.75
32:BG:9:LYS:HA	32:BG:9:LYS:HE3	1.69	0.75
22:B0:27:G:N2	22:B0:512:G:H2'	2.01	0.75
22:B0:658:U:H2'	28:BC:98:LYS:CG	2.15	0.75
22:B0:1609:A:H1'	22:B0:1616:A:C1'	2.16	0.75
22:B0:2543:G:N2	22:B0:2646:C:H4'	2.01	0.75
27:BB:22:ILE:HG21	27:BB:190:LYS:HZ2	1.51	0.75
28:BC:92:HIS:N	35:BJ:29:LYS:H	1.84	0.75
32:BG:133:ARG:HA	32:BG:133:ARG:NE	2.00	0.75
35:BJ:38:GLN:O	35:BJ:39:LYS:HB3	1.84	0.75
39:BN:20:ARG:HB3	39:BN:25:VAL:HG11	1.68	0.75
1:AA:1344:C:H4'	10:AI:119:LYS:NZ	2.01	0.75
1:AA:1368:A:OP2	10:AI:115:VAL:HG13	1.87	0.75
5:AD:53:GLN:HB3	5:AD:202:LEU:HB2	1.67	0.75
22:B0:2123:G:H4'	22:B0:2124:G:O4'	1.86	0.75
33:BH:123:LYS:HA	33:BH:123:LYS:HZ1	1.50	0.75
37:BL:97:ILE:HD13	37:BL:98:LEU:N	2.02	0.75
39:BN:30:TRP:HE1	39:BN:82:SER:HA	1.51	0.75
39:BN:50:ARG:NE	39:BN:100:ARG:HH21	1.82	0.75
4:AC:63:ILE:HD13	4:AC:64:ARG:N	2.01	0.75
4:AC:188:ALA:HB3	4:AC:195:ILE:HG23	1.69	0.75
11:AJ:8:ILE:HG12	11:AJ:100:ILE:HG22	1.69	0.75
22:B0:226:A:H61	22:B0:409:G:H21	1.32	0.75
22:B0:627:A:H4'	22:B0:628:G:OP1	1.84	0.75
22:B0:1408:G:N2	22:B0:1594:U:H3	1.84	0.75
22:B0:1582:C:H1'	26:BA:97:ASP:HB3	1.67	0.75
23:B9:56:G:H4'	23:B9:57:A:H8	1.51	0.75
26:BA:172:THR:C	26:BA:173:LEU:HD12	2.12	0.75
41:BQ:50:VAL:C	41:BQ:52:GLU:H	1.94	0.75
1:AA:419:C:O4'	1:AA:541:G:O4'	1.87	0.75
1:AA:1344:C:H5''	10:AI:119:LYS:HE2	1.67	0.75
22:B0:603:A:H4'	22:B0:604:G:O4'	1.87	0.75
22:B0:617:G:H3'	22:B0:617:G:N3	2.02	0.75
22:B0:1607:C:O2'	22:B0:1608:A:H5''	1.86	0.75
30:BE:118:ALA:HB3	30:BE:139:VAL:HG11	1.69	0.75
1:AA:80:A:H3'	1:AA:81:A:H5''	1.69	0.75
1:AA:404:G:H3'	1:AA:546:A:O2'	1.87	0.75
1:AA:1317:C:C2	20:AS:8:PRO:HG3	2.20	0.75
2:AU:20:G:H21	2:AU:22:G:H5'	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:7:LYS:HB3	5:AD:20:LEU:HG	1.69	0.75
8:AG:149:ALA:HB2	12:AK:60:PHE:CB	2.15	0.75
22:B0:978:G:O2'	22:B0:1002:G:H4'	1.87	0.75
22:B0:1578:U:H2'	26:BA:66:PHE:HB2	1.69	0.75
22:B0:1931:U:H2'	22:B0:1931:U:O2	1.86	0.75
41:BQ:47:VAL:HG23	41:BQ:103:ILE:HG21	1.68	0.75
1:AA:605:U:H2'	1:AA:606:G:O4'	1.87	0.75
17:AP:9:HIS:HE1	17:AP:18:GLN:HB2	1.52	0.75
22:B0:19:A:OP1	40:BO:29:ARG:HG2	1.87	0.75
22:B0:661:A:O2'	28:BC:95:LYS:HA	1.86	0.75
22:B0:1002:G:H1	22:B0:1153:C:H42	1.35	0.75
22:B0:2263:C:C4'	45:BU:9:THR:HB	2.16	0.75
26:BA:152:GLN:HA	26:BA:155:ARG:HE	1.52	0.75
32:BG:133:ARG:HG3	32:BG:137:LEU:HB3	1.68	0.75
42:BR:77:ARG:HH22	42:BR:79:ASP:CG	1.94	0.75
1:AA:1196:A:OP1	1:AA:1197:A:H5'	1.87	0.75
1:AA:1499:A:H1'	1:AA:1520:C:H4'	1.68	0.75
9:AH:76:ARG:HB2	9:AH:79:ARG:HE	1.52	0.75
17:AP:4:ILE:HG12	17:AP:21:VAL:HG22	1.67	0.75
22:B0:1300:G:H4'	22:B0:1301:A:O5'	1.86	0.75
28:BC:105:LEU:O	28:BC:109:LEU:HD13	1.87	0.75
1:AA:888:G:H5''	1:AA:1488:G:O2'	1.87	0.74
28:BC:149:ILE:HG22	28:BC:150:THR:HG22	1.69	0.74
39:BN:105:LYS:HA	39:BN:105:LYS:HZ1	1.51	0.74
1:AA:60:A:N6	1:AA:108:G:H4'	2.02	0.74
1:AA:968:A:H5''	1:AA:969:A:OP2	1.86	0.74
10:AI:54:VAL:HG23	10:AI:56:MET:HG2	1.68	0.74
22:B0:1580:A:O5'	26:BA:68:ARG:HB2	1.87	0.74
22:B0:2678:C:H5''	27:BB:124:ARG:CB	2.15	0.74
25:B3:46:GLU:HG3	25:B5:18:ASP:OD2	1.87	0.74
28:BC:36:ALA:HA	35:BJ:18:ARG:CZ	2.17	0.74
33:BH:41:LYS:HD3	33:BH:43:GLU:H	1.51	0.74
37:BL:28:LEU:HD13	37:BL:45:ARG:HH22	1.51	0.74
1:AA:104:G:H3'	21:AT:4:LYS:NZ	2.02	0.74
1:AA:887:G:O2'	1:AA:1489:G:H4'	1.88	0.74
3:AB:16:GLY:HA3	3:AB:39:ILE:HA	1.69	0.74
16:AO:47:LYS:HE2	16:AO:47:LYS:HA	1.68	0.74
22:B0:669:G:N2	28:BC:74:LYS:HB3	2.02	0.74
22:B0:1313:U:O2	22:B0:1313:U:H2'	1.86	0.74
24:B2:36:LYS:HE2	24:B2:36:LYS:HA	1.67	0.74
25:B5:3:THR:HG22	25:B5:5:ASP:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:479:A:H2'	22:B0:480:A:C4'	2.18	0.74
22:B0:1322:A:H61	22:B0:1333:G:N2	1.84	0.74
22:B0:2591:C:H2'	22:B0:2592:G:C8	2.23	0.74
30:BE:120:ILE:HD13	30:BE:120:ILE:H	1.51	0.74
37:BL:96:ARG:H	37:BL:96:ARG:NE	1.84	0.74
42:BR:93:LEU:HD21	42:BR:96:VAL:HB	1.68	0.74
5:AD:33:ILE:HD11	5:AD:35:GLN:NE2	2.03	0.74
14:AM:92:ARG:HH11	14:AM:96:VAL:HG12	1.51	0.74
22:B0:2614:A:H5''	22:B0:2615:U:OP1	1.87	0.74
26:BA:142:ASN:HB3	26:BA:190:THR:OG1	1.88	0.74
27:BB:12:THR:HB	39:BN:7:LEU:HG	1.70	0.74
29:BD:63:LYS:H	29:BD:63:LYS:HD3	1.49	0.74
39:BN:96:LEU:O	39:BN:97:TYR:HB3	1.87	0.74
1:AA:1222:G:OP2	20:AS:2:ARG:HB2	1.85	0.74
22:B0:121:G:H4'	22:B0:149:A:C5'	2.18	0.74
22:B0:751:A:H5''	22:B0:752:A:OP1	1.88	0.74
22:B0:800:A:H3'	28:BC:57:LYS:CB	2.12	0.74
22:B0:1568:G:H5''	22:B0:1569:A:O5'	1.87	0.74
25:B3:73:ARG:HE	25:B3:80:LEU:HA	1.51	0.74
41:BQ:18:ARG:HG2	41:BQ:19:LEU:N	2.02	0.74
1:AA:687:A:H4'	1:AA:688:G:O5'	1.88	0.74
1:AA:1117:A:N6	1:AA:1156:G:H22	1.85	0.74
22:B0:1828:G:C4'	22:B0:1829:A:H5'	2.18	0.74
22:B0:2678:C:C5'	27:BB:125:TRP:H	2.00	0.74
26:BA:171:VAL:HG22	26:BA:172:THR:H	1.52	0.74
1:AA:978:A:H3'	20:AS:5:LYS:HA	1.70	0.74
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.04	0.74
22:B0:527:C:H5''	22:B0:528:A:OP1	1.88	0.74
22:B0:600:G:N3	28:BC:99:LYS:HG2	2.02	0.74
22:B0:617:G:H5''	22:B0:618:G:N7	2.02	0.74
22:B0:738:G:H2'	22:B0:739:A:O4'	1.87	0.74
22:B0:2108:A:H2'	22:B0:2109:U:O4'	1.87	0.74
26:BA:65:ASP:OD1	26:BA:128:THR:HB	1.88	0.74
42:BR:50:LEU:HD13	46:BW:26:PHE:CE2	2.23	0.74
42:BR:68:LYS:HA	42:BR:68:LYS:NZ	2.03	0.74
1:AA:780:A:H5''	12:AK:124:LYS:HE2	1.70	0.74
1:AA:1194:U:H5''	6:AE:25:LYS:CD	2.17	0.74
1:AA:1405:G:H1'	1:AA:1518:A:O2'	1.87	0.74
1:AA:1413:A:H2	1:AA:1487:G:H22	1.35	0.74
2:AU:36:A:C2'	2:AU:37:G:H5''	2.15	0.74
4:AC:66:THR:HG22	4:AC:101:ASN:HD22	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:54:GLN:HB3	21:AT:55:PRO:HD3	1.70	0.74
22:B0:581:C:H5''	40:BO:31:TYR:HE2	1.52	0.74
22:B0:960:A:C8	22:B0:2496:C:P	2.79	0.74
22:B0:1493:A:N3	26:BA:171:VAL:HG12	2.02	0.74
25:B3:46:GLU:O	25:B5:15:SER:HB3	1.88	0.74
25:B5:22:LEU:O	25:B5:26:MET:HG2	1.88	0.74
42:BR:49:LYS:HD2	42:BR:50:LEU:HD12	1.70	0.74
29:BD:16:MET:HA	29:BD:20:ASN:ND2	2.01	0.74
1:AA:188:C:C2	1:AA:189:A:H1'	2.23	0.73
1:AA:1221:G:H2'	20:AS:1:PRO:N	2.02	0.73
4:AC:149:LYS:HD3	4:AC:168:ARG:HD2	1.68	0.73
22:B0:685:A:H1'	22:B0:687:C:H41	1.53	0.73
22:B0:960:A:H5'	22:B0:2495:G:H2'	1.70	0.73
22:B0:1421:G:C5	26:BA:149:LYS:HA	2.19	0.73
22:B0:1423:A:H2'	22:B0:1424:G:C8	2.23	0.73
22:B0:1456:G:H1	22:B0:2703:C:N4	1.86	0.73
22:B0:1939:U:H4'	22:B0:2592:G:H5'	1.70	0.73
22:B0:2788:C:H2'	22:B0:2891:A:N6	2.03	0.73
40:BO:59:LEU:HG	40:BO:63:ARG:HB2	1.69	0.73
6:AE:92:ARG:HB3	6:AE:127:TYR:HB2	1.70	0.73
22:B0:699:A:H4'	22:B0:1634:A:H61	1.53	0.73
22:B0:2892:G:H5'	33:BH:6:ALA:HA	1.69	0.73
26:BA:154:ALA:HB1	26:BA:159:THR:CG2	2.18	0.73
26:BA:158:GLY:H	26:BA:194:VAL:CB	2.01	0.73
28:BC:112:LEU:HA	28:BC:118:LEU:HD21	1.69	0.73
1:AA:344:A:H5''	1:AA:345:C:H5	1.52	0.73
22:B0:749:A:H4'	22:B0:1615:C:H42	1.53	0.73
22:B0:990:A:OP1	22:B0:1157:G:H4'	1.87	0.73
22:B0:2075:U:OP2	22:B0:2238:G:H2'	1.88	0.73
22:B0:2328:A:HO2'	45:BU:9:THR:HA	1.52	0.73
27:BB:172:VAL:HG13	27:BB:175:LEU:HD11	1.70	0.73
35:BJ:118:THR:HG23	35:BJ:119:PRO:CA	2.18	0.73
41:BQ:27:LYS:HD3	41:BQ:27:LYS:N	2.02	0.73
1:AA:912:C:C2'	1:AA:913:A:H5'	2.18	0.73
22:B0:1019:U:H3	22:B0:1142:A:N6	1.86	0.73
22:B0:2072:C:N4	22:B0:2437:G:H1	1.86	0.73
22:B0:2382:G:H5''	22:B0:2383:G:H5'	1.70	0.73
28:BC:146:VAL:HA	28:BC:149:ILE:HD13	1.69	0.73
32:BG:77:VAL:HG23	32:BG:78:LEU:HD23	1.69	0.73
40:BO:63:ARG:NH1	40:BO:63:ARG:HB3	2.02	0.73
42:BR:25:GLU:HG3	42:BR:26:LYS:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:279:A:H5'	1:AA:281:G:O4'	1.87	0.73
1:AA:763:G:H1'	16:AO:53:ARG:HD3	1.70	0.73
1:AA:1157:A:H4'	1:AA:1158:C:O5'	1.87	0.73
9:AH:86:LYS:HD2	9:AH:91:LEU:HA	1.69	0.73
10:AI:114:LYS:H	10:AI:120:ALA:CB	2.01	0.73
22:B0:215:G:C4'	22:B0:216:A:H4'	2.18	0.73
22:B0:589:U:OP1	28:BC:44:ARG:N	2.22	0.73
22:B0:756:A:H4'	22:B0:1660:G:OP1	1.88	0.73
22:B0:1580:A:OP2	26:BA:68:ARG:HD3	1.88	0.73
22:B0:2319:G:H5''	22:B0:2320:U:OP1	1.88	0.73
37:BL:90:ARG:HA	37:BL:90:ARG:NH1	2.03	0.73
40:BO:16:ILE:C	40:BO:18:LYS:H	1.96	0.73
1:AA:481:G:O2'	1:AA:482:A:O5'	2.07	0.73
1:AA:1201:A:O2'	1:AA:1202:U:H5''	1.89	0.73
1:AA:1371:G:H2'	1:AA:1372:U:C6	2.24	0.73
22:B0:508:A:H4'	22:B0:509:C:O5'	1.89	0.73
22:B0:1937:A:O2'	22:B0:1938:A:OP1	2.07	0.73
22:B0:2365:G:H5''	45:BU:38:ARG:HH21	1.53	0.73
22:B0:2725:A:OP1	27:BB:141:ARG:HD2	1.89	0.73
9:AH:102:VAL:HG22	9:AH:125:ILE:HD12	1.69	0.73
21:AT:84:LYS:HE3	21:AT:84:LYS:HA	1.70	0.73
22:B0:588:U:C4	28:BC:82:GLY:HA2	2.24	0.73
22:B0:799:G:H3'	28:BC:57:LYS:CB	2.17	0.73
22:B0:2176:A:O3'	24:B2:167:ASN:N	2.21	0.73
22:B0:2597:G:H2'	22:B0:2598:A:C8	2.23	0.73
41:BQ:33:LEU:HD12	41:BQ:34:ASP:N	2.04	0.73
41:BQ:35:ILE:O	41:BQ:36:LEU:HB3	1.86	0.73
45:BU:40:ARG:NH1	45:BU:40:ARG:HB2	2.03	0.73
1:AA:419:C:C1'	5:AD:39:GLN:HB2	2.11	0.73
1:AA:666:G:H4'	1:AA:731:G:N2	2.04	0.73
1:AA:1501:C:H2'	1:AA:1504:G:O6	1.88	0.73
22:B0:610:C:H2'	22:B0:611:C:C5	2.24	0.73
22:B0:1043:C:C2'	22:B0:1044:C:H5''	2.18	0.73
22:B0:1060:U:H4'	22:B0:1061:U:O5'	1.87	0.73
22:B0:1929:G:H5''	22:B0:1930:G:OP1	1.88	0.73
22:B0:2116:G:OP2	22:B0:2117:A:H5'	1.89	0.73
22:B0:2163:G:N2	22:B0:2164:C:H2'	2.04	0.73
25:B3:51:LYS:HA	25:B3:52:THR:HA	1.69	0.73
26:BA:154:ALA:HB1	26:BA:159:THR:HG21	1.68	0.73
30:BE:5:LYS:HG2	30:BE:52:GLY:HA3	1.70	0.73
40:BO:14:LYS:C	40:BO:16:ILE:H	1.96	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:51:GLN:HE21	40:BO:55:GLN:HB2	1.52	0.73
46:BW:28:LEU:O	46:BW:30:MET:HG3	1.89	0.73
12:AK:66:ALA:HB2	12:AK:95:THR:HG23	1.71	0.73
22:B0:310:A:H2'	22:B0:312:G:OP2	1.89	0.73
22:B0:571:U:H4'	22:B0:572:A:OP1	1.88	0.73
22:B0:799:G:P	28:BC:57:LYS:HG3	2.29	0.73
22:B0:1655:A:H2'	22:B0:1656:C:O4'	1.87	0.73
22:B0:2320:U:H2'	22:B0:2320:U:O2	1.86	0.73
22:B0:2897:U:H2'	33:BH:15:TRP:O	1.88	0.73
26:BA:62:ARG:HE	26:BA:150:GLY:C	1.97	0.73
27:BB:27:ILE:HG21	27:BB:201:LEU:HD11	1.70	0.73
33:BH:22:GLY:O	33:BH:23:LYS:HB3	1.89	0.73
7:AF:12:PRO:HD3	7:AF:57:ALA:HA	1.70	0.73
22:B0:478:A:H5'	43:BS:30:SER:HB3	1.70	0.73
22:B0:639:U:H2'	22:B0:640:C:C6	2.24	0.73
22:B0:1996:C:O2'	22:B0:1997:C:O5'	2.07	0.73
22:B0:2756:U:H5''	22:B0:2757:A:OP1	1.88	0.73
25:B3:16:VAL:HG23	25:B5:13:ALA:HA	1.69	0.73
36:BK:7:THR:HG23	36:BK:8:LYS:H	1.54	0.73
47:BX:12:ALA:HA	47:BX:15:ARG:NE	2.03	0.73
1:AA:449:G:O2'	1:AA:450:G:O5'	2.02	0.72
1:AA:1381:U:O2	8:AG:77:ARG:HA	1.89	0.72
6:AE:155:LYS:HB3	9:AH:68:LYS:NZ	2.04	0.72
14:AM:16:ILE:HD13	14:AM:16:ILE:O	1.89	0.72
22:B0:2138:G:H22	22:B0:2158:A:H62	1.34	0.72
22:B0:2328:A:H2'	22:B0:2329:U:C6	2.23	0.72
24:B2:114:ILE:HD13	24:B2:143:THR:HG23	1.71	0.72
28:BC:176:ASP:O	28:BC:180:LEU:HD23	1.89	0.72
40:BO:97:ILE:HD12	40:BO:98:ALA:N	2.04	0.72
1:AA:531:U:H4'	1:AA:532:A:H5''	1.71	0.72
1:AA:716:A:O2'	12:AK:119:GLY:HA2	1.89	0.72
4:AC:184:ASN:ND2	4:AC:199:VAL:HB	1.98	0.72
22:B0:834:G:H21	22:B0:2358:A:N6	1.86	0.72
26:BA:53:ILE:HD13	26:BA:54:GLY:N	2.03	0.72
40:BO:15:LYS:HA	40:BO:18:LYS:HE3	1.71	0.72
40:BO:102:LYS:N	40:BO:102:LYS:HE3	2.04	0.72
41:BQ:18:ARG:C	41:BQ:20:VAL:H	1.97	0.72
1:AA:251:G:H4'	1:AA:252:U:O5'	1.90	0.72
9:AH:13:ILE:HD12	9:AH:60:LEU:HD23	1.72	0.72
22:B0:960:A:H3'	22:B0:2496:C:H3'	1.69	0.72
22:B0:1568:G:H4'	22:B0:1569:A:OP2	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2127:G:H3'	22:B0:2166:U:H5'	1.70	0.72
22:B0:2128:G:C4'	22:B0:2165:C:H3'	2.18	0.72
22:B0:2472:G:H2'	22:B0:2475:C:H42	1.51	0.72
27:BB:193:VAL:HG11	27:BB:201:LEU:HD22	1.72	0.72
28:BC:110:SER:O	28:BC:113:VAL:HG22	1.89	0.72
40:BO:27:ARG:NE	40:BO:33:VAL:HB	2.01	0.72
1:AA:1158:C:O2	1:AA:1158:C:H2'	1.87	0.72
13:AL:28:GLN:HB3	13:AL:80:LEU:HD11	1.70	0.72
22:B0:1970:A:H5'	22:B0:1972:G:O4'	1.89	0.72
26:BA:64:VAL:CG1	26:BA:65:ASP:H	1.93	0.72
31:BF:31:VAL:HB	31:BF:32:PRO:HD3	1.70	0.72
1:AA:720:C:H4'	19:AR:69:TYR:CE1	2.23	0.72
7:AF:52:ASN:OD1	7:AF:85:ILE:HD13	1.90	0.72
22:B0:1497:U:H4'	26:BA:83:ASP:CG	2.15	0.72
22:B0:2478:A:H2'	22:B0:2529:G:C8	2.23	0.72
27:BB:62:LYS:HB3	27:BB:63:PRO:HD3	1.71	0.72
36:BK:79:ALA:O	36:BK:80:VAL:HB	1.89	0.72
39:BN:30:TRP:NE1	39:BN:82:SER:HA	2.04	0.72
39:BN:91:VAL:HG12	39:BN:92:ARG:N	2.04	0.72
43:BS:11:ILE:HD12	43:BS:21:ARG:HG2	1.71	0.72
47:BX:6:ILE:HG13	47:BX:56:VAL:HG12	1.70	0.72
22:B0:1046:A:H3'	25:B5:29:LYS:CD	2.18	0.72
22:B0:1083:U:H2'	25:B3:81:LYS:HE2	1.71	0.72
22:B0:1488:G:C6	26:BA:156:SER:HB2	2.25	0.72
22:B0:1581:A:H61	26:BA:99:GLU:HG3	1.53	0.72
22:B0:1996:C:C5	27:BB:137:SER:C	2.66	0.72
22:B0:2132:U:OP2	24:B2:7:MET:HE3	1.88	0.72
25:B5:29:LYS:HE2	25:B5:30:PHE:CZ	2.23	0.72
26:BA:72:GLY:O	26:BA:73:ILE:HG13	1.89	0.72
33:BH:37:ARG:HD3	33:BH:37:ARG:H	1.54	0.72
42:BR:30:ILE:HB	42:BR:85:VAL:HG13	1.69	0.72
42:BR:66:LYS:HE2	42:BR:66:LYS:HA	1.72	0.72
11:AJ:89:ARG:HB3	11:AJ:89:ARG:NH1	2.05	0.72
12:AK:44:ALA:HB3	12:AK:69:CYS:HB2	1.72	0.72
22:B0:65:U:OP1	42:BR:74:ILE:HB	1.90	0.72
22:B0:807:U:H1'	22:B0:2445:G:OP1	1.89	0.72
22:B0:1314:C:N4	22:B0:1338:G:H1	1.87	0.72
22:B0:2179:C:H3'	22:B0:2180:U:H3'	1.72	0.72
22:B0:2256:G:N2	22:B0:2257:U:H1'	2.05	0.72
26:BA:166:ARG:HA	26:BA:171:VAL:HG23	1.72	0.72
4:AC:50:SER:HB3	4:AC:114:LEU:HD22	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:74:ILE:HG13	9:AH:128:VAL:HG12	1.70	0.72
21:AT:33:LYS:HA	21:AT:33:LYS:HE3	1.70	0.72
22:B0:1200:C:H2'	22:B0:1201:U:C6	2.25	0.72
22:B0:1831:G:N2	22:B0:1975:G:H1'	2.04	0.72
22:B0:2391:G:H22	22:B0:2427:C:H4'	1.55	0.72
28:BC:32:VAL:HB	35:BJ:17:LYS:CD	2.20	0.72
28:BC:97:ASN:ND2	28:BC:100:MET:HE3	2.04	0.72
35:BJ:39:LYS:NZ	35:BJ:41:ARG:HG2	2.05	0.72
37:BL:99:LYS:HB3	37:BL:99:LYS:HZ3	1.54	0.72
40:BO:15:LYS:CA	40:BO:15:LYS:HZ2	2.02	0.72
1:AA:1278:G:H5''	1:AA:1279:G:H5'	1.72	0.72
22:B0:589:U:P	28:BC:44:ARG:H	2.13	0.72
22:B0:992:C:C5'	40:BO:47:ARG:HB3	2.16	0.72
22:B0:1490:C:H5''	26:BA:160:TYR:O	1.89	0.72
22:B0:1815:A:H5''	22:B0:1816:C:OP1	1.90	0.72
22:B0:2286:G:H4'	22:B0:2287:A:O4'	1.90	0.72
22:B0:2891:A:C6	22:B0:2892:G:H1'	2.25	0.72
32:BG:52:LEU:HD21	32:BG:73:PRO:HB3	1.71	0.72
33:BH:139:VAL:C	33:BH:140:LEU:HD22	2.15	0.72
37:BL:100:CYS:HB3	37:BL:110:MET:O	1.90	0.72
44:BT:30:ILE:HG13	44:BT:91:PHE:HB2	1.71	0.72
1:AA:430:A:H1'	1:AA:431:A:C4	2.25	0.72
3:AB:10:LYS:HE2	3:AB:211:LEU:HD21	1.71	0.72
10:AI:46:VAL:HA	10:AI:49:GLN:HG2	1.71	0.72
12:AK:33:ILE:HD12	12:AK:81:LEU:HD13	1.72	0.72
22:B0:973:A:H4'	22:B0:1186:G:H22	1.55	0.72
22:B0:1222:U:H3	22:B0:1227:G:H1	1.35	0.72
22:B0:1583:G:N2	26:BA:75:ALA:HA	1.99	0.72
22:B0:2089:C:N4	22:B0:2090:A:H62	1.87	0.72
42:BR:34:VAL:HG11	42:BR:43:ILE:HD12	1.71	0.72
22:B0:800:A:H2	28:BC:60:TRP:N	1.84	0.71
22:B0:2137:U:O2'	22:B0:2138:G:H5'	1.90	0.71
22:B0:2895:C:H2'	22:B0:2896:U:C6	2.25	0.71
25:B3:78:LEU:HB3	25:B3:82:GLU:CB	2.19	0.71
27:BB:4:LEU:HB2	27:BB:100:LEU:HD23	1.72	0.71
1:AA:889:A:H5''	1:AA:890:G:OP1	1.89	0.71
22:B0:587:C:H4'	28:BC:81:GLY:H	1.54	0.71
33:BH:24:THR:HG22	33:BH:26:GLY:H	1.53	0.71
45:BU:23:LYS:HB3	45:BU:23:LYS:HZ3	1.54	0.71
1:AA:545:C:HO2'	1:AA:548:G:C2'	2.03	0.71
1:AA:827:U:H5'	9:AH:15:ASN:ND2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1494:A:H2'	22:B0:1494:A:N3	2.04	0.71
22:B0:1830:C:N4	22:B0:1975:G:H22	1.87	0.71
24:B2:33:ALA:HB3	24:B2:177:VAL:HG21	1.73	0.71
33:BH:89:PHE:HB3	33:BH:92:MET:HB2	1.72	0.71
36:BK:108:VAL:HG22	36:BK:109:PRO:HD2	1.73	0.71
41:BQ:87:PRO:HA	41:BQ:88:ARG:NH2	2.05	0.71
1:AA:1485:U:H5'	22:B0:1960:A:H4'	1.70	0.71
11:AJ:10:LEU:HD11	11:AJ:25:ILE:HD12	1.71	0.71
22:B0:781:A:O2'	22:B0:1789:A:H5'	1.90	0.71
22:B0:884:U:H2'	22:B0:885:C:C5	2.25	0.71
22:B0:1490:C:C2'	26:BA:174:ARG:HB2	2.20	0.71
22:B0:2226:C:C4	22:B0:2227:A:H1'	2.25	0.71
25:B5:46:GLU:C	25:B5:50:GLU:HG2	2.14	0.71
28:BC:178:VAL:HA	35:BJ:17:LYS:H	1.55	0.71
47:BX:4:ILE:HG12	47:BX:58:GLU:HB3	1.71	0.71
1:AA:419:C:H5''	1:AA:540:G:N2	2.04	0.71
1:AA:419:C:O5'	1:AA:540:G:N3	2.21	0.71
1:AA:1188:A:H5''	11:AJ:60:ASP:HB3	1.71	0.71
9:AH:29:SER:HB3	9:AH:32:LYS:HG2	1.71	0.71
18:AQ:83:LEU:OXT	18:AQ:83:LEU:HD13	1.90	0.71
22:B0:1201:U:H2'	35:BJ:14:LYS:HE3	1.73	0.71
23:B9:56:G:H5''	23:B9:57:A:OP1	1.90	0.71
27:BB:123:LYS:HB2	27:BB:141:ARG:HE	1.54	0.71
28:BC:153:LEU:CD1	28:BC:158:PHE:HB2	2.18	0.71
22:B0:28:A:N6	22:B0:512:G:H1'	2.05	0.71
22:B0:1114:C:H2'	22:B0:1115:G:C8	2.24	0.71
22:B0:1141:U:O2'	22:B0:1142:A:OP2	2.07	0.71
32:BG:124:MET:HA	32:BG:124:MET:HE3	1.73	0.71
33:BH:109:LEU:HB2	33:BH:110:PRO:C	2.14	0.71
36:BK:7:THR:HG23	36:BK:8:LYS:N	2.04	0.71
40:BO:116:LEU:HD23	40:BO:116:LEU:H	1.55	0.71
1:AA:991:U:O2'	1:AA:992:U:H5'	1.91	0.71
11:AJ:40:ILE:HG13	11:AJ:42:LEU:HD21	1.73	0.71
22:B0:27:G:H22	22:B0:512:G:H2'	1.56	0.71
22:B0:958:U:H2'	36:BK:79:ALA:C	2.15	0.71
22:B0:960:A:C8	22:B0:2496:C:OP2	2.44	0.71
22:B0:1314:C:OP1	22:B0:1332:G:H5'	1.90	0.71
22:B0:2160:C:H5''	22:B0:2162:G:P	2.30	0.71
22:B0:2494:G:C4	22:B0:2495:G:H1'	2.25	0.71
22:B0:2643:G:H5''	27:BB:157:LYS:HB3	1.71	0.71
25:B3:69:ILE:HG23	25:B3:83:ALA:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:160:LYS:H	27:BB:160:LYS:CD	2.02	0.71
28:BC:72:SER:HB2	28:BC:78:TRP:CD1	2.25	0.71
28:BC:112:LEU:HG	28:BC:118:LEU:HD11	1.72	0.71
35:BJ:60:ARG:HB3	35:BJ:60:ARG:NH1	2.06	0.71
40:BO:14:LYS:HG3	40:BO:15:LYS:HG2	1.71	0.71
1:AA:40:C:H2'	1:AA:41:G:C8	2.26	0.71
22:B0:715:A:H2'	22:B0:716:A:O4'	1.90	0.71
22:B0:807:U:H4'	22:B0:2445:G:H4'	1.70	0.71
22:B0:2176:A:C5'	24:B2:167:ASN:H	2.02	0.71
37:BL:22:ARG:CZ	37:BL:69:ARG:HB3	2.21	0.71
46:BW:39:GLN:O	46:BW:43:LEU:HG	1.91	0.71
1:AA:6:G:N2	6:AE:105:ILE:HG13	2.04	0.71
1:AA:50:A:O2'	1:AA:51:A:OP2	2.08	0.71
1:AA:483:C:C5'	1:AA:484:G:H4'	2.21	0.71
1:AA:522:C:H41	13:AL:45:ASN:HD21	1.36	0.71
1:AA:1139:G:C4'	1:AA:1140:C:H5'	2.20	0.71
9:AH:45:ILE:HD12	9:AH:60:LEU:HD11	1.72	0.71
21:AT:38:ILE:HG22	21:AT:85:LEU:HB2	1.73	0.71
22:B0:386:G:H22	22:B0:411:G:H22	1.37	0.71
22:B0:1491:A:H3'	26:BA:175:LEU:HA	1.73	0.71
22:B0:1943:U:H5''	22:B0:1944:U:OP1	1.89	0.71
22:B0:2154:A:H4'	22:B0:2155:U:OP1	1.89	0.71
26:BA:71:ASP:HB2	26:BA:119:VAL:H	1.56	0.71
26:BA:181:ARG:HA	26:BA:181:ARG:HE	1.56	0.71
42:BR:67:VAL:HG22	42:BR:76:ARG:HA	1.73	0.71
12:AK:80:ASN:HD21	12:AK:107:THR:HB	1.56	0.71
22:B0:493:G:H21	41:BQ:7:HIS:HA	1.53	0.71
22:B0:524:G:H4'	22:B0:555:U:H4'	1.73	0.71
22:B0:528:A:H61	22:B0:2043:C:C5'	2.03	0.71
22:B0:581:C:H5''	40:BO:31:TYR:CE2	2.26	0.71
22:B0:865:C:HO2'	22:B0:866:A:H8	1.38	0.71
22:B0:1383:A:OP1	22:B0:1573:G:H1'	1.91	0.71
22:B0:1427:A:N6	26:BA:58:LYS:HG3	2.06	0.71
22:B0:1493:A:N1	26:BA:185:ALA:HA	2.06	0.71
22:B0:1579:A:C4	26:BA:67:LYS:HG3	2.25	0.71
22:B0:2478:A:H2'	22:B0:2529:G:C5	2.26	0.71
26:BA:141:HIS:N	26:BA:141:HIS:CD2	2.58	0.71
28:BC:92:HIS:HB3	35:BJ:29:LYS:HE3	1.72	0.71
43:BS:23:LYS:HB3	43:BS:36:GLU:OE1	1.91	0.71
12:AK:22:ILE:HD11	12:AK:99:LEU:HD11	1.73	0.70
22:B0:494:G:C1'	41:BQ:6:LYS:HB2	2.13	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:789:A:H5''	22:B0:790:U:OP2	1.91	0.70
22:B0:922:C:H1'	45:BU:19:ARG:HE	1.56	0.70
22:B0:1206:G:H22	22:B0:1240:U:H3	1.38	0.70
22:B0:2470:G:H2'	22:B0:2471:A:H8	1.55	0.70
26:BA:143:VAL:HG12	26:BA:189:ALA:CB	2.21	0.70
28:BC:27:LEU:O	28:BC:31:VAL:HG23	1.91	0.70
28:BC:43:THR:HG23	28:BC:43:THR:O	1.89	0.70
28:BC:188:MET:HE1	28:BC:196:VAL:HG21	1.73	0.70
34:BI:99:ILE:HD13	34:BI:100:PHE:N	2.06	0.70
35:BJ:39:LYS:HG2	35:BJ:41:ARG:N	2.01	0.70
41:BQ:74:ILE:HD13	41:BQ:74:ILE:N	2.06	0.70
41:BQ:88:ARG:H	41:BQ:88:ARG:CZ	2.03	0.70
1:AA:197:A:N6	1:AA:221:C:H4'	2.06	0.70
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.26	0.70
22:B0:74:A:H5'	22:B0:75:G:O5'	1.91	0.70
22:B0:494:G:H1'	41:BQ:7:HIS:H	1.55	0.70
22:B0:838:C:N4	22:B0:940:G:H1	1.89	0.70
22:B0:1799:G:H5''	22:B0:1800:C:OP1	1.91	0.70
22:B0:1996:C:O2'	22:B0:1997:C:O4'	2.08	0.70
22:B0:2296:U:H4'	22:B0:2297:A:C5'	2.20	0.70
28:BC:88:ARG:H	28:BC:89:PRO:HD3	1.56	0.70
32:BG:96:LYS:HD2	32:BG:96:LYS:H	1.55	0.70
33:BH:12:LYS:HA	33:BH:12:LYS:HE3	1.73	0.70
37:BL:43:GLU:OE1	37:BL:44:LEU:HG	1.91	0.70
42:BR:39:THR:HG23	42:BR:41:ALA:H	1.56	0.70
44:BT:88:HIS:C	44:BT:89:ILE:HD12	2.16	0.70
5:AD:167:PRO:HG2	5:AD:170:LEU:HB2	1.72	0.70
9:AH:63:LYS:HG3	9:AH:70:VAL:HG21	1.73	0.70
21:AT:27:MET:HE2	21:AT:57:VAL:HG23	1.73	0.70
22:B0:569:U:H1'	22:B0:971:G:H21	1.57	0.70
22:B0:910:A:N6	36:BK:10:ARG:HG2	2.07	0.70
22:B0:1046:A:H1'	25:B5:25:ALA:C	2.16	0.70
1:AA:418:C:OP1	1:AA:540:G:OP1	2.07	0.70
1:AA:753:A:H5''	1:AA:754:C:OP1	1.91	0.70
1:AA:975:A:H4'	1:AA:976:G:C5'	2.22	0.70
1:AA:1455:G:H2'	1:AA:1459:G:H8	1.56	0.70
6:AE:12:GLU:HG3	6:AE:38:VAL:HG12	1.73	0.70
13:AL:56:LEU:H	13:AL:56:LEU:HD22	1.56	0.70
20:AS:6:LYS:NZ	20:AS:6:LYS:HB3	2.06	0.70
22:B0:970:U:H4'	22:B0:984:A:H1'	1.72	0.70
22:B0:1265:A:O2'	22:B0:1266:G:H4'	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1421:G:C4	26:BA:149:LYS:CA	2.74	0.70
22:B0:1657:U:H2'	22:B0:1658:C:C6	2.25	0.70
22:B0:1760:C:OP2	22:B0:1760:C:H6	1.74	0.70
22:B0:1779:U:H4'	22:B0:1780:A:OP2	1.91	0.70
22:B0:2437:G:H2'	22:B0:2438:U:O4'	1.91	0.70
22:B0:2679:A:OP1	27:BB:165:MET:HB3	1.91	0.70
25:B3:57:ILE:HD12	25:B5:5:ASP:HB2	1.74	0.70
32:BG:11:GLN:HG3	32:BG:55:PRO:HB3	1.72	0.70
37:BL:49:GLU:HB2	37:BL:52:ILE:HG12	1.73	0.70
39:BN:20:ARG:CG	39:BN:25:VAL:HG21	2.21	0.70
1:AA:22:G:H1'	1:AA:913:A:N1	2.06	0.70
6:AE:15:ILE:HD12	6:AE:35:LEU:HB3	1.72	0.70
22:B0:977:G:H4'	22:B0:1001:A:C2	2.27	0.70
26:BA:140:VAL:HG22	26:BA:161:VAL:O	1.89	0.70
32:BG:92:PRO:O	32:BG:93:ASN:HB3	1.91	0.70
42:BR:48:GLN:HG3	42:BR:54:GLU:HA	1.73	0.70
1:AA:911:U:H2'	1:AA:912:C:C6	2.26	0.70
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.55	0.70
3:AB:37:VAL:HG22	3:AB:39:ILE:H	1.55	0.70
7:AF:81:ASN:ND2	7:AF:83:ALA:HB3	2.05	0.70
22:B0:323:C:C2	28:BC:163:ASN:HB2	2.27	0.70
32:BG:33:ASN:HD22	32:BG:34:ILE:H	1.39	0.70
37:BL:37:THR:O	37:BL:40:LYS:HB3	1.92	0.70
40:BO:63:ARG:O	40:BO:63:ARG:HD2	1.91	0.70
42:BR:8:LEU:HB2	46:BW:26:PHE:HA	1.71	0.70
4:AC:152:VAL:HG13	4:AC:195:ILE:HD11	1.73	0.70
5:AD:56:GLU:HG2	5:AD:198:LEU:HB2	1.74	0.70
6:AE:148:SER:HB3	6:AE:149:PRO:HD2	1.72	0.70
7:AF:24:ARG:NH2	7:AF:81:ASN:HB2	2.07	0.70
22:B0:589:U:OP2	28:BC:44:ARG:HB2	1.91	0.70
22:B0:778:G:H2'	22:B0:779:U:O4'	1.90	0.70
22:B0:1019:U:H3	22:B0:1142:A:H62	1.39	0.70
22:B0:1580:A:O4'	26:BA:69:ASN:N	2.25	0.70
22:B0:2428:G:H4'	22:B0:2429:G:C4	2.26	0.70
22:B0:2529:G:OP2	22:B0:2530:A:H5''	1.91	0.70
24:B2:147:ASN:HD22	24:B2:150:GLU:HB2	1.56	0.70
29:BD:91:ARG:NH1	29:BD:91:ARG:HB2	2.07	0.70
32:BG:10:LEU:HG	32:BG:11:GLN:H	1.55	0.70
33:BH:14:ASP:HB3	33:BH:15:TRP:CE3	2.27	0.70
37:BL:17:ARG:C	37:BL:17:ARG:HE	2.00	0.70
40:BO:32:ARG:NE	40:BO:32:ARG:HA	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:8:LEU:HD12	46:BW:26:PHE:O	1.92	0.70
42:BR:68:LYS:HD3	42:BR:69:ARG:H	1.56	0.70
49:B1:26:LYS:HG2	49:B1:28:THR:HG22	1.72	0.70
1:AA:559:A:O2'	1:AA:560:A:OP2	2.10	0.70
1:AA:572:A:H4'	1:AA:917:G:H4'	1.74	0.70
2:AU:75:C:C4'	22:B0:2557:G:H5''	2.22	0.70
9:AH:6:ILE:HB	9:AH:76:ARG:NH1	2.06	0.70
12:AK:106:ILE:HD11	12:AK:109:ILE:HG13	1.74	0.70
22:B0:1087:G:C5	22:B0:1089:A:H1'	2.26	0.70
22:B0:2677:G:H4'	27:BB:160:LYS:CB	2.18	0.70
22:B0:2898:G:OP2	33:BH:140:LEU:HB2	1.91	0.70
26:BA:81:GLU:HB2	26:BA:90:ILE:HD11	1.72	0.70
36:BK:8:LYS:O	36:BK:10:ARG:HG3	1.91	0.70
1:AA:1157:A:H1'	1:AA:1181:G:N2	2.07	0.70
15:AN:54:SER:HB2	15:AN:58:ARG:HD2	1.72	0.70
22:B0:1312:U:H5''	22:B0:1313:U:OP1	1.92	0.70
22:B0:1626:A:H4'	22:B0:1627:G:H5''	1.74	0.70
22:B0:2513:A:N1	22:B0:2575:C:H1'	2.07	0.70
26:BA:211:ARG:HA	26:BA:211:ARG:HE	1.55	0.70
41:BQ:25:ARG:H	41:BQ:25:ARG:HE	1.37	0.70
45:BU:45:HIS:HB3	45:BU:79:ILE:CG2	2.20	0.70
1:AA:36:C:H5''	13:AL:119:LYS:HA	1.73	0.70
1:AA:426:U:H2'	1:AA:427:U:C6	2.27	0.70
1:AA:483:C:H5''	1:AA:484:G:H4'	1.73	0.70
1:AA:1038:C:H2'	1:AA:1039:G:C8	2.27	0.70
1:AA:1196:A:H4'	1:AA:1197:A:OP2	1.91	0.70
1:AA:1322:C:C4'	1:AA:1323:G:H5'	2.22	0.70
4:AC:100:ILE:HD13	4:AC:101:ASN:N	2.07	0.70
22:B0:960:A:O4'	22:B0:2496:C:OP2	2.09	0.70
22:B0:1204:A:H5''	28:BC:148:ILE:HG23	1.73	0.70
22:B0:1819:A:H4'	22:B0:1821:A:OP2	1.91	0.70
22:B0:2116:G:H4'	22:B0:2116:G:OP1	1.91	0.70
25:B3:57:ILE:CD1	25:B5:5:ASP:HB2	2.22	0.70
30:BE:151:ARG:HA	30:BE:151:ARG:HE	1.57	0.70
33:BH:35:ARG:HA	33:BH:39:LYS:HD3	1.73	0.70
42:BR:8:LEU:CD2	42:BR:11:LEU:HD21	2.21	0.70
42:BR:75:GLY:O	42:BR:77:ARG:HG3	1.92	0.70
46:BW:39:GLN:HE21	46:BW:39:GLN:CA	2.03	0.70
7:AF:40:GLU:HB2	7:AF:61:LEU:HB2	1.74	0.69
22:B0:265:A:H4'	22:B0:266:G:OP1	1.90	0.69
22:B0:529:A:N7	22:B0:2042:A:H2	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:774:G:H1'	22:B0:777:G:N2	2.05	0.69
22:B0:1418:G:N3	26:BA:99:GLU:OE1	2.24	0.69
22:B0:1758:U:H2'	22:B0:1758:U:O2	1.91	0.69
22:B0:2345:G:O2'	22:B0:2381:A:H1'	1.91	0.69
28:BC:91:ASP:N	35:BJ:27:LEU:O	2.24	0.69
1:AA:417:G:H22	1:AA:427:U:C1'	2.05	0.69
1:AA:1186:G:H5''	10:AI:121:ARG:O	1.92	0.69
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.27	0.69
22:B0:840:C:H2'	22:B0:841:G:C8	2.27	0.69
22:B0:1204:A:H61	22:B0:1241:A:H61	1.38	0.69
22:B0:1500:A:H61	26:BA:156:SER:N	1.89	0.69
22:B0:1580:A:H2'	22:B0:1581:A:O4'	1.91	0.69
22:B0:1835:G:H1'	22:B0:1931:U:H3	1.57	0.69
22:B0:2179:C:O3'	22:B0:2180:U:H3'	1.91	0.69
32:BG:81:LYS:HE2	32:BG:81:LYS:HA	1.74	0.69
39:BN:87:ARG:C	39:BN:88:ARG:HD3	2.17	0.69
41:BQ:28:LYS:H	41:BQ:70:LYS:HD2	1.57	0.69
1:AA:701:U:O2'	1:AA:702:A:OP2	2.07	0.69
1:AA:1067:A:N6	1:AA:1109:C:H5'	2.07	0.69
13:AL:113:ARG:NH1	13:AL:120:ARG:HG3	2.07	0.69
22:B0:35:G:O4'	22:B0:454:A:H1'	1.91	0.69
22:B0:960:A:H3'	22:B0:2496:C:C3'	2.21	0.69
22:B0:1669:A:N3	22:B0:1669:A:H2'	2.06	0.69
22:B0:1837:C:O2'	22:B0:1838:C:H5'	1.91	0.69
22:B0:2728:U:H2'	22:B0:2729:G:C8	2.27	0.69
23:B9:84:G:C2'	23:B9:85:G:H5''	2.22	0.69
28:BC:164:LEU:HB2	28:BC:167:VAL:HG21	1.75	0.69
29:BD:151:LEU:HD13	29:BD:152:ASP:N	2.07	0.69
32:BG:56:VAL:HG12	32:BG:70:THR:HA	1.73	0.69
42:BR:42:GLU:HG2	42:BR:43:ILE:HG12	1.72	0.69
1:AA:21:G:H1'	1:AA:914:A:N6	2.06	0.69
3:AB:216:VAL:O	3:AB:220:VAL:HG23	1.93	0.69
9:AH:77:VAL:HG13	9:AH:84:ILE:HD11	1.74	0.69
9:AH:107:LYS:HG2	9:AH:120:LEU:HD22	1.74	0.69
16:AO:13:GLU:HG3	16:AO:14:PHE:CD1	2.28	0.69
21:AT:60:GLN:HA	21:AT:65:LEU:HD12	1.73	0.69
22:B0:372:G:O6	31:BF:22:LYS:HG2	1.91	0.69
22:B0:672:C:OP1	28:BC:65:THR:HG22	1.91	0.69
22:B0:1141:U:H4'	22:B0:1142:A:O4'	1.93	0.69
22:B0:2164:C:H5''	22:B0:2165:C:OP1	1.91	0.69
22:B0:2345:G:H4'	22:B0:2346:A:O5'	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:29:LEU:HD21	24:B2:41:VAL:HG11	1.75	0.69
35:BJ:111:ILE:H	35:BJ:111:ILE:HD13	1.57	0.69
40:BO:102:LYS:HE3	40:BO:102:LYS:H	1.56	0.69
1:AA:144:G:H2'	1:AA:145:G:H8	1.57	0.69
1:AA:419:C:H5''	1:AA:540:G:N3	2.07	0.69
1:AA:560:A:O2'	1:AA:561:U:OP2	2.06	0.69
1:AA:980:C:C6	20:AS:5:LYS:HD3	2.28	0.69
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.56	0.69
22:B0:493:G:C8	41:BQ:9:HIS:HB2	2.27	0.69
22:B0:600:G:H1'	28:BC:99:LYS:HB3	1.74	0.69
22:B0:1490:C:H2'	26:BA:174:ARG:HB2	1.73	0.69
22:B0:2811:G:H1	22:B0:2889:C:H42	1.41	0.69
24:B2:29:LEU:HD22	24:B2:213:ILE:HD11	1.75	0.69
26:BA:100:ARG:O	26:BA:101:ARG:HG3	1.91	0.69
33:BH:45:THR:HB	33:BH:46:PRO:CA	2.23	0.69
1:AA:992:U:H4'	1:AA:993:G:O5'	1.92	0.69
2:AU:75:C:O4'	22:B0:2557:G:H3'	1.92	0.69
22:B0:1275:A:H4'	22:B0:1276:A:O5'	1.93	0.69
26:BA:241:LYS:O	26:BA:243:PRO:HD2	1.90	0.69
40:BO:63:ARG:HB3	40:BO:63:ARG:HH11	1.57	0.69
45:BU:43:LYS:CE	45:BU:43:LYS:H	2.04	0.69
2:AV:16:U:H4'	2:AV:18:G:OP2	1.92	0.69
22:B0:1427:A:N6	26:BA:58:LYS:HE3	2.07	0.69
22:B0:2472:G:N2	22:B0:2478:A:H62	1.90	0.69
25:B3:78:LEU:HB3	25:B3:82:GLU:HB3	1.74	0.69
28:BC:145:ASP:O	28:BC:148:ILE:HB	1.93	0.69
34:BI:52:VAL:HG22	34:BI:56:ASP:OD1	1.92	0.69
39:BN:28:LYS:H	39:BN:28:LYS:HD3	1.56	0.69
46:BW:40:SER:HA	46:BW:43:LEU:HG	1.74	0.69
1:AA:1349:A:H1'	1:AA:1374:A:N6	2.07	0.69
3:AB:186:VAL:HG22	3:AB:187:ASP:H	1.57	0.69
4:AC:4:VAL:HG11	4:AC:9:ILE:HD12	1.75	0.69
10:AI:8:THR:HB	10:AI:84:ARG:NH1	2.08	0.69
22:B0:873:C:H4'	36:BK:64:TRP:HZ3	1.58	0.69
22:B0:1487:G:O2'	26:BA:198:GLU:HG3	1.93	0.69
26:BA:175:LEU:HD23	26:BA:178:GLY:C	2.17	0.69
29:BD:87:LYS:O	29:BD:87:LYS:HD3	1.93	0.69
29:BD:160:LYS:H	29:BD:160:LYS:HD2	1.58	0.69
34:BI:24:VAL:HA	34:BI:39:ILE:HG22	1.73	0.69
35:BJ:63:LYS:HD2	35:BJ:63:LYS:N	2.08	0.69
38:BM:79:ALA:HB1	38:BM:115:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:5:ARG:HG3	40:BO:8:ILE:O	1.93	0.69
40:BO:21:LYS:N	40:BO:21:LYS:HD2	2.08	0.69
40:BO:42:GLY:O	40:BO:46:TYR:HA	1.92	0.69
45:BU:13:ARG:HE	45:BU:13:ARG:C	2.01	0.69
49:B1:34:GLU:CD	49:B1:34:GLU:H	2.01	0.69
1:AA:1221:G:C2	20:AS:1:PRO:HB2	2.28	0.69
10:AI:43:ALA:O	10:AI:46:VAL:HG12	1.92	0.69
15:AN:40:ARG:HD2	20:AS:17:LYS:HE2	1.75	0.69
22:B0:124:G:H21	22:B0:126:A:H5'	1.57	0.69
22:B0:1480:G:H1	22:B0:1511:G:H1	1.39	0.69
22:B0:2899:A:H61	33:BH:137:PRO:N	1.90	0.69
24:B2:14:VAL:HG22	24:B2:28:LEU:HD21	1.75	0.69
27:BB:58:ASN:HA	27:BB:61:THR:HG22	1.74	0.69
32:BG:57:VAL:C	32:BG:58:ILE:HD12	2.18	0.69
35:BJ:36:LYS:HG2	35:BJ:38:GLN:HG2	1.74	0.69
1:AA:1157:A:H5'	1:AA:1158:C:C6	2.28	0.69
10:AI:117:LEU:HA	10:AI:124:PRO:HD3	1.74	0.69
13:AL:30:ARG:NH1	13:AL:30:ARG:HB2	2.08	0.69
22:B0:1996:C:C4	27:BB:138:LEU:HG	2.28	0.69
22:B0:2142:A:C2'	22:B0:2143:C:H5'	2.23	0.69
22:B0:2227:A:C2'	22:B0:2228:G:H5'	2.23	0.69
24:B2:49:ILE:HD13	24:B2:49:ILE:H	1.56	0.69
27:BB:120:GLY:O	27:BB:124:ARG:HG3	1.93	0.69
40:BO:2:ARG:NH1	40:BO:3:VAL:HG12	2.07	0.69
42:BR:34:VAL:HG22	42:BR:82:LYS:HA	1.74	0.69
1:AA:1065:U:H1'	1:AA:1066:C:H5	1.56	0.68
2:AU:16:U:O2'	2:AU:17:U:H5''	1.91	0.68
5:AD:104:MET:HE2	5:AD:179:GLY:HA3	1.74	0.68
22:B0:312:G:H4'	22:B0:331:C:C4	2.28	0.68
22:B0:1494:A:C5	26:BA:131:MET:HA	2.27	0.68
22:B0:1581:A:H61	26:BA:99:GLU:CG	2.06	0.68
22:B0:2163:G:H21	22:B0:2164:C:H2'	1.58	0.68
22:B0:2321:U:H2'	22:B0:2321:U:O2	1.92	0.68
22:B0:2478:A:H4'	22:B0:2528:U:H5''	1.75	0.68
23:B9:72:G:H1	23:B9:104:A:H2	1.40	0.68
23:B9:76:G:N2	23:B9:100:G:H22	1.90	0.68
25:B3:96:GLU:CA	25:B5:8:ILE:HG23	2.23	0.68
39:BN:86:LYS:HG3	39:BN:87:ARG:H	1.56	0.68
42:BR:9:LYS:HE3	46:BW:25:GLN:NE2	2.08	0.68
1:AA:244:U:H1'	1:AA:894:G:C1'	2.15	0.68
1:AA:424:G:C2	5:AD:39:GLN:CD	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:58:G:N2	22:B0:70:G:H1'	2.08	0.68
22:B0:1492:G:P	26:BA:175:LEU:HD13	2.33	0.68
22:B0:2145:C:H2'	22:B0:2146:C:H5''	1.74	0.68
28:BC:114:ARG:HB3	28:BC:117:ARG:HG3	1.73	0.68
33:BH:25:LEU:HD13	33:BH:25:LEU:H	1.56	0.68
38:BM:35:ILE:HD13	38:BM:36:TYR:N	2.08	0.68
1:AA:50:A:N6	1:AA:361:G:H4'	2.08	0.68
1:AA:419:C:O2'	5:AD:39:GLN:CB	2.41	0.68
1:AA:912:C:H2'	1:AA:913:A:H5'	1.75	0.68
1:AA:1157:A:H5''	1:AA:1158:C:OP1	1.93	0.68
9:AH:34:ALA:HB1	9:AH:109:VAL:HG11	1.74	0.68
17:AP:2:VAL:HG13	17:AP:65:ALA:HA	1.74	0.68
22:B0:574:A:O2'	22:B0:2055:C:H5	1.71	0.68
22:B0:657:U:H2'	22:B0:658:U:C6	2.28	0.68
22:B0:960:A:O3'	22:B0:2496:C:C6	2.46	0.68
22:B0:1582:C:H3'	26:BA:96:LYS:HD2	1.75	0.68
22:B0:1758:U:N3	22:B0:2695:U:H4'	2.04	0.68
22:B0:2127:G:O2'	22:B0:2165:C:O2'	2.01	0.68
22:B0:2266:A:H1'	22:B0:2272:U:N3	2.08	0.68
22:B0:2360:G:H1'	35:BJ:60:ARG:NH2	2.08	0.68
23:B9:13:G:H4'	23:B9:15:A:H62	1.56	0.68
25:B3:96:GLU:CB	25:B5:8:ILE:HG23	2.23	0.68
27:BB:13:ARG:CD	39:BN:10:GLU:HG3	2.22	0.68
36:BK:112:LEU:H	36:BK:112:LEU:HD13	1.58	0.68
1:AA:563:A:H1'	1:AA:566:G:O2'	1.93	0.68
1:AA:617:G:H4'	17:AP:14:ARG:NH2	2.08	0.68
1:AA:817:C:H5''	1:AA:818:G:OP1	1.94	0.68
1:AA:1285:A:O2'	1:AA:1286:U:H5''	1.94	0.68
19:AR:7:ARG:NH1	19:AR:7:ARG:HB2	2.08	0.68
22:B0:827:U:H5'	22:B0:828:U:C5	2.27	0.68
22:B0:1196:C:H2'	22:B0:1197:G:H8	1.58	0.68
22:B0:1419:A:H62	22:B0:1579:A:H61	1.41	0.68
22:B0:2262:U:H1'	45:BU:10:ARG:NH1	2.07	0.68
25:B3:107:LYS:HD2	25:B3:119:VAL:HG23	1.75	0.68
26:BA:149:LYS:HZ2	26:BA:152:GLN:CG	2.07	0.68
29:BD:111:ARG:HH22	29:BD:134:GLN:CG	2.06	0.68
33:BH:44:TYR:CE2	33:BH:46:PRO:HB3	2.27	0.68
1:AA:1117:A:H2'	1:AA:1118:U:H5'	1.76	0.68
22:B0:405:U:H5''	22:B0:406:G:OP2	1.93	0.68
22:B0:487:C:H4'	41:BQ:53:SER:HB2	1.74	0.68
23:B9:56:G:H4'	23:B9:57:A:C8	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:7:MET:O	24:B2:11:ARG:HG2	1.93	0.68
25:B5:26:MET:HE3	25:B5:38:VAL:HG11	1.75	0.68
31:BF:15:LEU:HB3	31:BF:51:ARG:HH22	1.57	0.68
39:BN:24:THR:HA	39:BN:49:ILE:HG12	1.75	0.68
39:BN:71:ARG:O	39:BN:72:VAL:HB	1.94	0.68
5:AD:60:VAL:HG13	5:AD:194:ILE:HD13	1.76	0.68
20:AS:40:PHE:H	20:AS:43:MET:HE3	1.59	0.68
22:B0:611:C:N4	22:B0:618:G:N2	2.41	0.68
22:B0:1039:A:H2'	22:B0:1040:A:H8	1.58	0.68
22:B0:1321:A:H61	22:B0:1334:G:H1'	1.58	0.68
22:B0:1495:A:N6	26:BA:142:ASN:ND2	2.42	0.68
22:B0:2136:G:H2'	22:B0:2137:U:C5'	2.20	0.68
22:B0:2161:C:H1'	22:B0:2162:G:C4'	2.24	0.68
23:B9:78:A:H61	23:B9:98:G:C2'	2.05	0.68
26:BA:163:ILE:HG13	26:BA:173:LEU:HD21	1.76	0.68
28:BC:78:TRP:CD1	28:BC:79:ARG:HG3	2.29	0.68
28:BC:143:LEU:HB3	28:BC:146:VAL:HG23	1.76	0.68
28:BC:143:LEU:HB3	28:BC:146:VAL:CG2	2.24	0.68
30:BE:148:ARG:NH2	30:BE:168:VAL:HG12	2.08	0.68
33:BH:55:ILE:CD1	33:BH:56:VAL:H	2.07	0.68
39:BN:59:THR:HG23	39:BN:76:HIS:HA	1.75	0.68
41:BQ:88:ARG:H	41:BQ:88:ARG:NE	1.91	0.68
1:AA:814:A:H4'	1:AA:1511:G:H4'	1.76	0.68
1:AA:1479:C:H2'	1:AA:1480:A:H8	1.58	0.68
5:AD:166:LYS:HG2	5:AD:172:VAL:HG22	1.75	0.68
8:AG:149:ALA:CB	12:AK:60:PHE:HB2	2.24	0.68
21:AT:55:PRO:O	21:AT:59:ARG:HG3	1.92	0.68
22:B0:854:C:H2'	22:B0:855:G:H8	1.59	0.68
22:B0:904:G:H2'	22:B0:905:A:H8	1.57	0.68
22:B0:2165:C:N4	22:B0:2172:U:O2'	2.27	0.68
26:BA:198:GLU:HG2	26:BA:201:LEU:HD12	1.76	0.68
28:BC:44:ARG:HA	28:BC:89:PRO:O	1.93	0.68
28:BC:117:ARG:HA	28:BC:185:LYS:HZ2	1.57	0.68
32:BG:33:ASN:ND2	32:BG:34:ILE:H	1.91	0.68
32:BG:71:LYS:HG3	32:BG:72:THR:H	1.58	0.68
37:BL:36:THR:OG1	37:BL:40:LYS:HB2	1.94	0.68
41:BQ:35:ILE:HD13	41:BQ:36:LEU:H	1.56	0.68
1:AA:419:C:C5'	1:AA:540:G:N3	2.56	0.68
12:AK:113:THR:HG22	12:AK:115:ILE:HG13	1.75	0.68
22:B0:528:A:N6	22:B0:2042:A:H2'	2.09	0.68
22:B0:2123:G:H4'	22:B0:2124:G:C4'	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2261:C:H2'	22:B0:2262:U:C6	2.27	0.68
22:B0:2262:U:O2'	45:BU:10:ARG:HB3	1.94	0.68
22:B0:2345:G:H1'	22:B0:2381:A:N3	2.09	0.68
29:BD:109:ARG:HA	29:BD:109:ARG:HE	1.59	0.68
35:BJ:21:ARG:HD2	35:BJ:22:GLY:H	1.59	0.68
36:BK:86:LYS:HE2	36:BK:86:LYS:HA	1.75	0.68
41:BQ:69:LEU:O	41:BQ:69:LEU:HD12	1.94	0.68
1:AA:31:G:C5	1:AA:48:C:H5''	2.29	0.68
1:AA:610:U:H2'	1:AA:611:C:C6	2.27	0.68
5:AD:13:ARG:HH21	5:AD:37:PRO:HG2	1.58	0.68
5:AD:151:GLN:HG3	5:AD:154:VAL:HG22	1.75	0.68
13:AL:98:ARG:HB2	13:AL:116:TYR:HA	1.75	0.68
22:B0:655:A:H4'	22:B0:656:G:H5'	1.76	0.68
22:B0:918:A:H62	22:B0:2268:A:H8	1.42	0.68
22:B0:1014:A:H61	22:B0:1148:U:H3	1.41	0.68
22:B0:2123:G:H2'	22:B0:2123:G:N3	2.09	0.68
22:B0:2136:G:O6	22:B0:2163:G:O4'	2.11	0.68
22:B0:2161:C:H1'	22:B0:2162:G:O4'	1.94	0.68
33:BH:55:ILE:HG12	33:BH:123:LYS:HB3	1.76	0.68
35:BJ:111:ILE:HD13	35:BJ:111:ILE:N	2.09	0.68
39:BN:64:SER:HA	39:BN:71:ARG:HG2	1.76	0.68
40:BO:63:ARG:HH11	40:BO:63:ARG:C	2.02	0.68
45:BU:40:ARG:HB2	45:BU:40:ARG:HH11	1.59	0.68
22:B0:482:A:H1'	22:B0:498:G:N2	2.09	0.68
22:B0:801:G:O2'	22:B0:802:A:OP1	2.12	0.68
22:B0:1060:U:H5''	22:B0:1061:U:OP1	1.94	0.68
22:B0:2120:G:O5'	22:B0:2121:G:OP1	2.11	0.68
22:B0:2582:G:H2'	22:B0:2582:G:N3	2.08	0.68
26:BA:175:LEU:HD22	26:BA:179:GLU:HB3	1.76	0.68
34:BI:42:THR:HB	34:BI:57:VAL:HG12	1.75	0.68
49:B1:10:LEU:HD12	49:B1:51:ALA:HA	1.76	0.68
3:AB:23:ASN:HD22	3:AB:24:PRO:CD	2.06	0.67
4:AC:148:ILE:HD13	4:AC:149:LYS:N	2.08	0.67
22:B0:750:A:O2'	22:B0:751:A:C5'	2.41	0.67
22:B0:1153:C:H2'	22:B0:1154:G:O4'	1.94	0.67
22:B0:1772:A:O4'	22:B0:1786:A:H4'	1.94	0.67
22:B0:2154:A:N3	22:B0:2154:A:H2'	2.07	0.67
22:B0:2345:G:H5''	22:B0:2346:A:OP1	1.94	0.67
22:B0:2871:U:H2'	22:B0:2872:A:H8	1.59	0.67
25:B3:17:MET:HE2	25:B3:100:LYS:HB2	1.74	0.67
26:BA:152:GLN:O	26:BA:152:GLN:HG3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:29:LYS:H	49:B1:29:LYS:HD2	1.59	0.67
1:AA:1519:A:C2'	1:AA:1520:C:H5'	2.22	0.67
6:AE:155:LYS:HB3	9:AH:68:LYS:HZ2	1.59	0.67
7:AF:51:ILE:HD13	7:AF:85:ILE:HG12	1.75	0.67
22:B0:959:A:C8	36:BK:80:VAL:CG1	2.76	0.67
22:B0:962:G:H1'	22:B0:2497:A:OP2	1.94	0.67
22:B0:1579:A:C8	26:BA:65:ASP:O	2.47	0.67
22:B0:2262:U:H2'	45:BU:10:ARG:C	2.18	0.67
26:BA:123:ILE:H	26:BA:123:ILE:CD1	2.07	0.67
40:BO:21:LYS:HD2	40:BO:21:LYS:H	1.57	0.67
45:BU:36:ILE:HG23	45:BU:68:PHE:HB3	1.75	0.67
45:BU:79:ILE:HD13	45:BU:80:SER:H	1.59	0.67
3:AB:185:ILE:HG22	3:AB:199:ILE:HB	1.76	0.67
22:B0:120:U:H4'	22:B0:121:G:O5'	1.94	0.67
22:B0:223:A:H4'	22:B0:420:C:O2'	1.94	0.67
22:B0:479:A:H2'	22:B0:480:A:H4'	1.76	0.67
22:B0:1840:G:H1	22:B0:1903:G:H1'	1.59	0.67
22:B0:2024:G:H1	22:B0:2039:U:H3	1.40	0.67
22:B0:2153:C:H5''	22:B0:2154:A:OP1	1.94	0.67
27:BB:142:VAL:HG12	27:BB:144:GLY:H	1.57	0.67
33:BH:96:ARG:HB3	33:BH:98:GLU:N	2.08	0.67
1:AA:703:G:H5''	1:AA:704:A:OP1	1.94	0.67
2:AV:18:G:C2'	2:AV:57:G:H22	2.05	0.67
2:AV:20:G:H2'	2:AV:21:A:H5''	1.75	0.67
6:AE:132:PRO:HG2	6:AE:133:ILE:HD12	1.75	0.67
22:B0:249:C:OP2	22:B0:2394:C:H4'	1.93	0.67
22:B0:1992:G:H22	27:BB:138:LEU:HD11	1.59	0.67
34:BI:43:ILE:CD1	34:BI:53:LYS:HG3	2.24	0.67
16:AO:56:LEU:HB3	16:AO:57:ARG:NH1	2.09	0.67
22:B0:307:G:H21	22:B0:330:A:N6	1.93	0.67
22:B0:856:G:H4'	45:BU:54:ARG:CD	2.24	0.67
22:B0:1128:G:H1'	22:B0:2517:C:H5'	1.77	0.67
22:B0:1996:C:C2	27:BB:138:LEU:O	2.47	0.67
22:B0:2333:A:H4'	22:B0:2334:U:C5'	2.23	0.67
24:B2:30:LYS:HA	24:B2:177:VAL:HG23	1.75	0.67
26:BA:130:PRO:HB2	26:BA:133:ASN:OD1	1.95	0.67
28:BC:97:ASN:HB2	28:BC:100:MET:HB2	1.77	0.67
49:B1:26:LYS:CG	49:B1:28:THR:HG22	2.24	0.67
1:AA:150:U:H3	1:AA:171:A:N6	1.91	0.67
1:AA:419:C:C4'	1:AA:541:G:O2'	2.43	0.67
1:AA:430:A:H1'	1:AA:431:A:C5	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:N6	22:B0:1847:A:H3'	2.09	0.67
1:AA:992:U:O2'	1:AA:993:G:OP2	2.12	0.67
4:AC:110:LEU:HG	4:AC:143:LEU:HD23	1.76	0.67
22:B0:490:C:O2'	22:B0:491:G:OP1	2.12	0.67
22:B0:589:U:P	28:BC:44:ARG:N	2.68	0.67
22:B0:1199:U:H3	22:B0:1246:A:H2	1.40	0.67
22:B0:1495:A:C5'	26:BA:191:LEU:HB2	2.24	0.67
22:B0:2498:C:H2'	22:B0:2499:C:H5'	1.76	0.67
30:BE:40:VAL:HB	30:BE:53:PRO:HG3	1.77	0.67
34:BI:22:ILE:HD11	34:BI:42:THR:HG22	1.77	0.67
39:BN:62:LYS:HA	39:BN:62:LYS:HZ3	1.57	0.67
22:B0:1495:A:O5'	26:BA:190:THR:C	2.38	0.67
22:B0:1582:C:C2	26:BA:96:LYS:HB2	2.30	0.67
22:B0:2678:C:O4'	27:BB:125:TRP:CD1	2.47	0.67
26:BA:241:LYS:HG2	26:BA:242:HIS:H	1.59	0.67
28:BC:96:VAL:HG22	28:BC:97:ASN:HD21	1.59	0.67
1:AA:449:G:H4'	1:AA:450:G:OP1	1.94	0.67
4:AC:106:ARG:HG2	4:AC:107:LYS:HD3	1.75	0.67
9:AH:6:ILE:HB	9:AH:76:ARG:HH11	1.60	0.67
10:AI:117:LEU:HD22	10:AI:123:ARG:HA	1.76	0.67
22:B0:503:A:O5'	22:B0:504:A:OP2	2.12	0.67
22:B0:829:A:H5'	22:B0:831:G:N7	2.10	0.67
22:B0:1580:A:C1'	26:BA:69:ASN:H	2.08	0.67
22:B0:1580:A:C4	26:BA:68:ARG:HA	2.30	0.67
22:B0:2161:C:O5'	22:B0:2162:G:OP1	2.11	0.67
22:B0:2780:G:H5''	22:B0:2781:A:OP2	1.94	0.67
25:B3:86:LEU:HD11	25:B3:93:ALA:O	1.94	0.67
28:BC:134:LEU:HD13	28:BC:137:LYS:NZ	2.09	0.67
33:BH:14:ASP:HB3	33:BH:15:TRP:HE3	1.58	0.67
1:AA:189:A:H2'	1:AA:190:A:C4'	2.24	0.67
1:AA:509:A:N3	1:AA:543:U:O2'	2.27	0.67
19:AR:41:SER:HA	19:AR:44:THR:HG22	1.75	0.67
22:B0:72:U:O2'	46:BW:48:ARG:NH1	2.27	0.67
22:B0:589:U:H5''	28:BC:44:ARG:HD2	1.76	0.67
22:B0:2484:G:H4'	36:BK:44:ARG:HD3	1.77	0.67
22:B0:2609:U:C2'	22:B0:2610:C:H5'	2.24	0.67
22:B0:2634:A:H61	22:B0:2784:U:H3	1.43	0.67
22:B0:2677:G:H2'	27:BB:125:TRP:CB	2.23	0.67
24:B2:45:VAL:HG12	24:B2:211:VAL:HG13	1.75	0.67
24:B2:104:LYS:NZ	24:B2:126:LEU:HD22	2.09	0.67
34:BI:2:ILE:HD11	34:BI:82:ASN:CG	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:659:G:H21	28:BC:97:ASN:HB3	1.60	0.67
22:B0:776:G:N2	22:B0:793:A:H62	1.92	0.67
22:B0:857:G:H4'	45:BU:71:LYS:NZ	2.10	0.67
22:B0:1310:G:H2'	22:B0:1311:G:H5'	1.77	0.67
22:B0:1499:U:H1'	26:BA:155:ARG:HH11	1.59	0.67
26:BA:144:GLU:OE1	26:BA:188:ARG:HD2	1.95	0.67
28:BC:31:VAL:HG12	35:BJ:17:LYS:HB3	1.75	0.67
28:BC:48:THR:HG23	28:BC:49:ARG:N	2.09	0.67
29:BD:69:ALA:HB2	29:BD:84:ILE:HD11	1.76	0.67
40:BO:4:LYS:HE2	40:BO:5:ARG:H	1.60	0.67
41:BQ:88:ARG:NH1	41:BQ:92:ARG:HB3	2.09	0.67
45:BU:43:LYS:H	45:BU:43:LYS:NZ	1.91	0.67
1:AA:107:G:H3'	1:AA:108:G:N2	2.06	0.66
1:AA:757:U:H2'	1:AA:758:C:O4'	1.95	0.66
22:B0:776:G:O2'	22:B0:777:G:H5'	1.95	0.66
22:B0:1496:A:C2	22:B0:1498:C:N4	2.62	0.66
22:B0:1579:A:C4	26:BA:67:LYS:N	2.48	0.66
22:B0:1803:A:N6	22:B0:1814:G:N2	2.43	0.66
22:B0:2787:C:O2'	22:B0:2811:G:H1'	1.94	0.66
28:BC:186:VAL:HG22	28:BC:187:VAL:N	2.07	0.66
30:BE:154:GLU:HB2	30:BE:155:PRO:HD3	1.77	0.66
35:BJ:78:ARG:NH1	35:BJ:78:ARG:HB3	2.09	0.66
35:BJ:81:ASP:C	35:BJ:83:ALA:H	2.01	0.66
1:AA:292:G:H1'	1:AA:608:A:H61	1.59	0.66
15:AN:81:ILE:HD12	15:AN:82:LYS:HG2	1.77	0.66
22:B0:492:A:H3'	41:BQ:9:HIS:CA	2.17	0.66
22:B0:958:U:H5	36:BK:82:MET:N	1.92	0.66
22:B0:1584:U:O2	26:BA:76:VAL:HG21	1.95	0.66
22:B0:2144:G:C2'	22:B0:2145:C:H5''	2.23	0.66
22:B0:2167:U:O4	22:B0:2170:A:N7	2.27	0.66
37:BL:42:LYS:HD3	37:BL:43:GLU:N	2.11	0.66
38:BM:37:ALA:HB3	38:BM:78:VAL:HG21	1.77	0.66
39:BN:101:GLU:C	39:BN:103:THR:H	2.03	0.66
40:BO:2:ARG:NE	40:BO:2:ARG:N	2.44	0.66
46:BW:44:LYS:CE	46:BW:48:ARG:HH21	2.08	0.66
1:AA:420:U:OP1	1:AA:512:U:H1'	1.94	0.66
1:AA:512:U:H2'	1:AA:513:C:C6	2.29	0.66
1:AA:1099:G:C2	1:AA:1100:C:H1'	2.30	0.66
22:B0:731:C:H2'	22:B0:732:C:H6	1.61	0.66
22:B0:1444:A:H3'	22:B0:1445:U:C5'	2.24	0.66
22:B0:2478:A:H4'	22:B0:2528:U:H4'	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2542:A:H5''	22:B0:2543:G:OP1	1.95	0.66
22:B0:2897:U:O2'	33:BH:16:TYR:HA	1.95	0.66
30:BE:97:VAL:HA	30:BE:102:ILE:HG22	1.77	0.66
49:B1:34:GLU:C	49:B1:35:LEU:HD22	2.20	0.66
1:AA:407:U:OP1	5:AD:5:GLY:HA2	1.95	0.66
1:AA:889:A:N1	1:AA:907:A:H5''	2.10	0.66
1:AA:1336:C:H5'	1:AA:1337:G:OP1	1.95	0.66
1:AA:1385:G:H2'	10:AI:128:LYS:NZ	2.09	0.66
2:AU:18:G:C2'	2:AU:57:G:H22	2.08	0.66
3:AB:46:VAL:HB	3:AB:47:PRO:HD3	1.76	0.66
4:AC:54:ILE:HD13	4:AC:54:ILE:N	2.11	0.66
14:AM:16:ILE:HG12	14:AM:19:THR:HB	1.76	0.66
22:B0:1201:U:H2'	35:BJ:14:LYS:CE	2.25	0.66
22:B0:1322:A:H5''	41:BQ:82:MET:SD	2.36	0.66
22:B0:2121:G:H1'	22:B0:2122:U:C5	2.29	0.66
26:BA:63:ILE:HD12	26:BA:63:ILE:N	2.10	0.66
33:BH:35:ARG:CZ	33:BH:39:LYS:HE2	2.26	0.66
38:BM:8:ILE:HD12	38:BM:8:ILE:H	1.61	0.66
40:BO:56:PHE:C	40:BO:58:GLN:H	2.02	0.66
40:BO:57:ARG:HH21	40:BO:91:ARG:HH22	1.42	0.66
42:BR:16:VAL:HG12	42:BR:17:SER:N	2.09	0.66
1:AA:383:A:H5''	1:AA:455:G:OP1	1.96	0.66
1:AA:429:U:C5	1:AA:431:A:OP2	2.49	0.66
16:AO:56:LEU:HD23	22:B0:715:A:N7	2.10	0.66
22:B0:1496:A:O5'	26:BA:190:THR:HG23	1.95	0.66
22:B0:2124:G:H2'	22:B0:2125:G:C5'	2.20	0.66
22:B0:2192:U:H2'	22:B0:2193:G:H8	1.59	0.66
22:B0:2296:U:H5''	22:B0:2297:A:OP1	1.95	0.66
22:B0:2391:G:N2	22:B0:2427:C:H4'	2.11	0.66
28:BC:32:VAL:CB	35:BJ:17:LYS:HD3	2.25	0.66
39:BN:30:TRP:HZ3	39:BN:85:VAL:HB	1.61	0.66
39:BN:88:ARG:H	39:BN:88:ARG:NH1	1.93	0.66
40:BO:15:LYS:HA	40:BO:15:LYS:HZ2	1.59	0.66
40:BO:41:ALA:C	40:BO:43:GLN:H	2.02	0.66
42:BR:72:GLN:HA	42:BR:72:GLN:HE21	1.59	0.66
1:AA:1130:A:H5''	10:AI:17:ARG:NH1	2.11	0.66
1:AA:1302:C:C5'	14:AM:16:ILE:HG13	2.25	0.66
6:AE:25:LYS:HE3	6:AE:25:LYS:HA	1.77	0.66
8:AG:148:LYS:HG2	12:AK:60:PHE:HE1	1.59	0.66
22:B0:959:A:O2'	22:B0:2495:G:O2'	2.13	0.66
22:B0:1455:U:H2'	37:BL:63:ARG:HD3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1578:U:H5''	26:BA:101:ARG:CZ	2.25	0.66
22:B0:1580:A:O2'	22:B0:1581:A:H5'	1.95	0.66
22:B0:2096:C:H2'	22:B0:2097:A:H8	1.61	0.66
22:B0:2286:G:H1	49:B1:35:LEU:CD1	2.09	0.66
30:BE:25:ILE:HD13	30:BE:26:LYS:N	2.09	0.66
33:BH:16:TYR:O	33:BH:17:VAL:CG1	2.41	0.66
36:BK:126:ILE:HD13	36:BK:127:LYS:N	2.09	0.66
1:AA:274:A:H5''	1:AA:275:G:OP1	1.96	0.66
1:AA:1360:A:N1	20:AS:6:LYS:HE3	2.11	0.66
20:AS:3:SER:C	20:AS:4:LEU:HD12	2.20	0.66
22:B0:304:U:H3	22:B0:313:G:H1	1.43	0.66
22:B0:523:C:O2'	22:B0:555:U:H5'	1.95	0.66
22:B0:529:A:H5''	22:B0:530:G:OP1	1.95	0.66
22:B0:1040:A:H2	22:B0:1115:G:H1	1.44	0.66
22:B0:1499:U:H3	22:B0:1500:A:N6	1.93	0.66
22:B0:2128:G:O5'	22:B0:2165:C:H3'	1.94	0.66
22:B0:2895:C:H41	33:BH:13:ARG:NH1	1.94	0.66
24:B2:127:GLY:HA3	24:B2:136:MET:HE3	1.77	0.66
28:BC:63:LYS:HB2	28:BC:63:LYS:NZ	2.11	0.66
32:BG:133:ARG:CG	32:BG:137:LEU:HB3	2.24	0.66
42:BR:12:ARG:HB2	42:BR:33:LYS:HB2	1.78	0.66
1:AA:952:U:H2'	1:AA:953:G:H8	1.60	0.66
7:AF:22:ILE:HD13	7:AF:22:ILE:O	1.96	0.66
7:AF:47:LEU:HD11	7:AF:57:ALA:HB2	1.77	0.66
11:AJ:57:VAL:HG12	11:AJ:58:ASN:N	2.04	0.66
19:AR:11:ARG:HD3	19:AR:46:THR:HG22	1.78	0.66
22:B0:204:A:O2'	22:B0:205:G:H1'	1.96	0.66
24:B2:28:LEU:O	24:B2:32:LEU:HG	1.96	0.66
29:BD:25:MET:HG2	29:BD:26:GLN:HG3	1.77	0.66
32:BG:50:LYS:HD2	32:BG:51:GLY:N	2.11	0.66
34:BI:19:VAL:HG22	34:BI:43:ILE:HG22	1.76	0.66
1:AA:406:G:H2'	1:AA:407:U:C6	2.31	0.66
1:AA:418:C:C3'	1:AA:541:G:H8	2.09	0.66
2:AV:47:U:N3	2:AV:50:U:H5''	2.11	0.66
4:AC:112:ALA:HB1	4:AC:184:ASN:ND2	2.10	0.66
20:AS:6:LYS:HB3	20:AS:6:LYS:HZ2	1.61	0.66
22:B0:65:U:H5''	42:BR:74:ILE:CG1	2.25	0.66
22:B0:846:U:O2'	22:B0:848:C:O4'	2.14	0.66
22:B0:891:G:H3'	22:B0:891:G:N3	2.11	0.66
22:B0:1698:A:H4'	22:B0:1699:G:O5'	1.95	0.66
24:B2:59:ARG:CZ	24:B2:163:ARG:HD2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:110:THR:HG22	27:BB:202:ILE:HD11	1.78	0.66
33:BH:17:VAL:HG23	33:BH:18:VAL:N	2.10	0.66
33:BH:72:LYS:HA	33:BH:72:LYS:HZ2	1.60	0.66
36:BK:6:ARG:H	36:BK:71:LYS:HG3	1.61	0.66
43:BS:5:ARG:HB2	43:BS:8:ASP:OD2	1.94	0.66
1:AA:405:U:H3'	1:AA:406:G:H5'	1.78	0.66
1:AA:410:G:H2'	1:AA:410:G:N3	2.11	0.66
1:AA:419:C:C2'	5:AD:39:GLN:CG	2.74	0.66
1:AA:547:A:H4'	1:AA:548:G:O4'	1.96	0.66
1:AA:1347:G:OP2	1:AA:1347:G:O4'	2.14	0.66
2:AU:74:C:H3'	22:B0:2557:G:O4'	1.96	0.66
4:AC:137:VAL:HA	4:AC:148:ILE:HD12	1.78	0.66
5:AD:104:MET:HE1	5:AD:142:VAL:HB	1.77	0.66
13:AL:41:PRO:HD2	13:AL:47:ALA:H	1.59	0.66
16:AO:56:LEU:HD12	16:AO:57:ARG:HD3	1.78	0.66
22:B0:586:A:H5''	28:BC:79:ARG:H	1.61	0.66
22:B0:712:G:H2'	22:B0:713:G:C8	2.30	0.66
22:B0:1246:A:H5''	35:BJ:26:GLY:N	2.11	0.66
22:B0:1668:A:H61	22:B0:1676:A:N6	1.94	0.66
27:BB:5:VAL:HG22	27:BB:202:ILE:HG22	1.78	0.66
29:BD:174:PHE:HB3	29:BD:175:PRO:HA	1.78	0.66
34:BI:17:ARG:HA	34:BI:17:ARG:HE	1.61	0.66
40:BO:43:GLN:O	40:BO:45:ALA:N	2.28	0.66
41:BQ:11:ARG:N	41:BQ:11:ARG:NE	2.43	0.66
46:BW:42:LEU:H	46:BW:42:LEU:HD13	1.59	0.66
1:AA:266:G:H5'	1:AA:267:C:OP1	1.94	0.65
1:AA:1169:A:H2'	1:AA:1171:A:O4'	1.95	0.65
1:AA:1404:C:O2'	1:AA:1519:A:H4'	1.96	0.65
2:AW:18:G:H5''	2:AW:60:C:C2	2.31	0.65
5:AD:141:VAL:HG12	5:AD:180:THR:HG22	1.78	0.65
22:B0:494:G:O4'	41:BQ:7:HIS:O	2.14	0.65
22:B0:764:A:O2'	22:B0:765:C:OP1	2.14	0.65
22:B0:807:U:H2'	22:B0:808:G:C8	2.31	0.65
22:B0:1990:C:H2'	22:B0:1991:U:C6	2.31	0.65
26:BA:67:LYS:NZ	26:BA:188:ARG:HH22	1.93	0.65
37:BL:113:ILE:O	37:BL:114:GLU:HG2	1.96	0.65
40:BO:30:VAL:HB	40:BO:33:VAL:HG22	1.77	0.65
41:BQ:5:ALA:N	41:BQ:54:ALA:HA	2.11	0.65
45:BU:28:GLU:OE2	45:BU:61:LYS:HE2	1.96	0.65
1:AA:370:C:O2'	1:AA:484:G:H5''	1.96	0.65
2:AV:20:G:H3'	2:AV:21:A:C5'	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:51:G:H1'	22:B0:118:A:H62	1.61	0.65
22:B0:120:U:O2'	22:B0:121:G:OP2	2.11	0.65
22:B0:196:A:N3	22:B0:196:A:H2'	2.11	0.65
22:B0:800:A:C8	28:BC:56:GLY:N	2.65	0.65
27:BB:177:VAL:HG13	27:BB:187:LEU:HD11	1.78	0.65
28:BC:178:VAL:HG13	28:BC:179:SER:N	2.08	0.65
31:BF:29:PHE:O	31:BF:33:GLN:HG2	1.96	0.65
33:BH:114:LEU:H	33:BH:114:LEU:CD1	2.08	0.65
42:BR:12:ARG:HB3	42:BR:12:ARG:NH1	2.11	0.65
45:BU:23:LYS:HB3	45:BU:23:LYS:NZ	2.11	0.65
1:AA:432:A:H2'	1:AA:433:G:O4'	1.96	0.65
1:AA:1237:C:C2'	1:AA:1334:G:H1'	2.27	0.65
1:AA:1239:A:H5'	1:AA:1240:U:OP1	1.96	0.65
22:B0:596:U:H2'	22:B0:597:G:C8	2.31	0.65
22:B0:841:G:N1	22:B0:938:G:N2	2.44	0.65
22:B0:1143:A:H5''	22:B0:1144:A:OP2	1.97	0.65
22:B0:1300:G:O2'	22:B0:1301:A:OP2	2.12	0.65
22:B0:1495:A:N1	26:BA:64:VAL:HG13	2.11	0.65
22:B0:2438:U:C5'	22:B0:2600:A:H4'	2.26	0.65
22:B0:2885:G:H2'	22:B0:2886:A:O4'	1.96	0.65
28:BC:79:ARG:HD2	28:BC:79:ARG:O	1.96	0.65
34:BI:41:ILE:HD13	34:BI:41:ILE:H	1.59	0.65
41:BQ:11:ARG:NE	41:BQ:11:ARG:H	1.93	0.65
1:AA:407:U:H4'	5:AD:4:LEU:HD11	1.78	0.65
10:AI:50:PRO:HB3	10:AI:83:THR:HG22	1.78	0.65
10:AI:119:LYS:C	10:AI:121:ARG:H	2.05	0.65
13:AL:106:VAL:HG23	13:AL:116:TYR:HB3	1.77	0.65
22:B0:204:A:H5''	22:B0:205:G:OP1	1.95	0.65
22:B0:858:G:N3	22:B0:2268:A:H2'	2.10	0.65
22:B0:961:C:H3'	22:B0:2497:A:H4'	1.78	0.65
22:B0:2161:C:H1'	22:B0:2162:G:H1'	1.78	0.65
24:B2:41:VAL:HA	24:B2:215:THR:HA	1.78	0.65
28:BC:74:LYS:HB2	28:BC:74:LYS:NZ	2.11	0.65
40:BO:27:ARG:HE	40:BO:33:VAL:CB	2.05	0.65
12:AK:15:VAL:HB	12:AK:78:ILE:HG12	1.79	0.65
16:AO:24:THR:HG21	16:AO:69:LEU:HB2	1.79	0.65
22:B0:27:G:H1'	22:B0:513:A:N6	2.11	0.65
22:B0:1660:G:H2'	22:B0:1661:G:C8	2.31	0.65
22:B0:2062:A:N3	22:B0:2062:A:H2'	2.11	0.65
22:B0:2478:A:H4'	22:B0:2528:U:C5'	2.27	0.65
23:B9:97:C:H2'	23:B9:98:G:O4'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:18:ILE:HD13	30:BE:19:ASN:N	2.12	0.65
41:BQ:18:ARG:HG2	41:BQ:19:LEU:H	1.62	0.65
41:BQ:83:LYS:HB3	41:BQ:83:LYS:NZ	2.12	0.65
42:BR:67:VAL:HG12	42:BR:68:LYS:N	2.08	0.65
44:BT:29:ILE:HD13	44:BT:30:ILE:N	2.12	0.65
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.32	0.65
4:AC:137:VAL:HG13	4:AC:148:ILE:HG23	1.76	0.65
6:AE:140:ILE:HD12	6:AE:141:ASP:N	2.12	0.65
14:AM:97:ARG:HH21	14:AM:108:ARG:HG3	1.62	0.65
22:B0:241:A:O3'	22:B0:242:G:H4'	1.97	0.65
22:B0:478:A:H5'	43:BS:30:SER:CB	2.27	0.65
22:B0:589:U:H2'	28:BC:48:THR:HB	1.77	0.65
22:B0:602:A:H1'	22:B0:656:G:N2	2.10	0.65
22:B0:822:G:N2	22:B0:2357:G:H22	1.95	0.65
22:B0:1140:C:H4'	22:B0:1143:A:C5	2.31	0.65
22:B0:1494:A:O5'	26:BA:173:LEU:HD22	1.96	0.65
22:B0:1495:A:H2	26:BA:65:ASP:HB2	1.58	0.65
22:B0:1583:G:C4	26:BA:96:LYS:HG2	2.31	0.65
22:B0:2160:C:H5''	22:B0:2162:G:OP1	1.96	0.65
28:BC:3:LEU:HD21	28:BC:113:VAL:HG12	1.78	0.65
33:BH:37:ARG:HD3	33:BH:37:ARG:N	2.12	0.65
1:AA:960:U:O2'	1:AA:961:U:OP2	2.13	0.65
1:AA:1139:G:H5'	1:AA:1140:C:OP1	1.97	0.65
10:AI:113:LYS:HA	10:AI:120:ALA:HB2	1.77	0.65
22:B0:72:U:O4	22:B0:112:U:H1'	1.96	0.65
22:B0:848:C:H2'	22:B0:849:A:O4'	1.96	0.65
22:B0:1500:A:N6	26:BA:156:SER:HA	2.11	0.65
22:B0:1532:U:H2'	22:B0:1533:C:C5	2.32	0.65
22:B0:1819:A:H1'	22:B0:1821:A:C5	2.30	0.65
25:B3:46:GLU:HA	25:B3:47:ALA:HA	1.78	0.65
26:BA:99:GLU:O	26:BA:100:ARG:HB3	1.96	0.65
26:BA:241:LYS:HG2	26:BA:242:HIS:N	2.11	0.65
28:BC:32:VAL:HB	35:BJ:17:LYS:NZ	2.11	0.65
28:BC:34:ALA:HB3	35:BJ:18:ARG:HB2	1.79	0.65
37:BL:42:LYS:HD3	37:BL:43:GLU:HG3	1.79	0.65
45:BU:46:ALA:HB1	45:BU:76:ARG:H	1.59	0.65
1:AA:1305:G:N2	1:AA:1331:G:H2'	2.12	0.65
4:AC:27:GLU:HG3	4:AC:31:ASN:OD1	1.97	0.65
22:B0:1047:G:H4'	25:B5:30:PHE:HE2	1.62	0.65
22:B0:1413:U:H2'	22:B0:1414:G:O4'	1.97	0.65
22:B0:1579:A:H8	26:BA:188:ARG:HD3	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2364:C:H2'	22:B0:2365:G:C8	2.30	0.65
22:B0:2855:C:H2'	22:B0:2856:A:H5''	1.79	0.65
24:B2:54:SER:HA	24:B2:57:ASN:ND2	2.11	0.65
28:BC:171:ASP:O	28:BC:175:ILE:HG23	1.96	0.65
33:BH:96:ARG:CB	33:BH:97:PRO:HA	2.26	0.65
1:AA:979:C:H5'	20:AS:5:LYS:NZ	2.11	0.65
1:AA:1052:U:H2'	1:AA:1200:C:N4	2.12	0.65
1:AA:1148:U:P	10:AI:10:ARG:HH21	2.19	0.65
2:AV:16:U:O2'	2:AV:17:U:H5''	1.97	0.65
7:AF:10:VAL:HG11	7:AF:21:MET:SD	2.36	0.65
16:AO:46:LYS:H	16:AO:46:LYS:HD2	1.61	0.65
22:B0:1423:A:H2'	22:B0:1424:G:H8	1.62	0.65
22:B0:1490:C:H4'	26:BA:162:GLN:N	2.11	0.65
22:B0:2128:G:C5'	22:B0:2165:C:H3'	2.27	0.65
22:B0:2884:U:C6	48:BZ:51:ARG:HD3	2.32	0.65
25:B3:90:ALA:N	25:B3:91:PRO:HD3	2.11	0.65
25:B5:57:ILE:HG12	25:B5:120:LYS:NZ	2.10	0.65
30:BE:157:LYS:HE2	30:BE:162:ARG:HG3	1.79	0.65
33:BH:93:ILE:HD11	33:BH:96:ARG:HE	1.62	0.65
36:BK:6:ARG:HB3	36:BK:10:ARG:HH22	1.62	0.65
42:BR:74:ILE:HD12	42:BR:76:ARG:NH2	2.12	0.65
42:BR:86:THR:C	42:BR:87:LEU:HD12	2.22	0.65
45:BU:66:VAL:HG22	45:BU:67:LYS:N	2.10	0.65
1:AA:483:C:H5''	1:AA:484:G:O3'	1.97	0.65
9:AH:119:GLY:C	9:AH:120:LEU:HD12	2.22	0.65
19:AR:7:ARG:H	19:AR:7:ARG:HH11	1.44	0.65
22:B0:100:U:H5''	22:B0:102:U:OP2	1.97	0.65
22:B0:493:G:O4'	41:BQ:9:HIS:C	2.40	0.65
22:B0:663:G:H5''	28:BC:87:ALA:CB	2.27	0.65
22:B0:836:G:O6	22:B0:943:A:H1'	1.96	0.65
22:B0:2058:A:O2'	22:B0:2059:A:OP1	2.15	0.65
23:B9:32:U:H5''	29:BD:8:LYS:NZ	2.12	0.65
28:BC:88:ARG:CZ	35:BJ:30:THR:HA	2.26	0.65
28:BC:90:GLN:HG2	35:BJ:27:LEU:HD12	1.77	0.65
36:BK:40:ARG:HB3	36:BK:93:VAL:HG21	1.79	0.65
37:BL:25:ALA:HA	37:BL:28:LEU:HD21	1.78	0.65
40:BO:15:LYS:HZ2	40:BO:15:LYS:N	1.95	0.65
40:BO:112:ALA:C	40:BO:114:ALA:H	2.03	0.65
41:BQ:12:SER:HB3	41:BQ:17:VAL:CG2	2.27	0.65
45:BU:39:GLN:HG2	45:BU:68:PHE:HA	1.78	0.65
47:BX:21:ALA:HA	47:BX:24:LEU:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:A:H4'	1:AA:120:A:O4'	1.97	0.64
1:AA:545:C:C4'	1:AA:549:C:C4'	2.47	0.64
1:AA:553:A:H1'	13:AL:27:PRO:HG3	1.77	0.64
1:AA:888:G:H1'	1:AA:909:A:H61	1.61	0.64
7:AF:18:VAL:HG13	7:AF:21:MET:HE3	1.79	0.64
8:AG:108:ARG:HA	8:AG:118:ARG:CZ	2.27	0.64
9:AH:10:LEU:HD21	9:AH:74:ILE:O	1.98	0.64
12:AK:78:ILE:HG21	12:AK:81:LEU:HD21	1.79	0.64
16:AO:59:VAL:HG11	22:B0:715:A:H5'	1.80	0.64
22:B0:488:G:H1'	22:B0:493:G:O6	1.97	0.64
22:B0:603:A:H4'	22:B0:604:G:C4'	2.27	0.64
22:B0:670:A:H1'	28:BC:74:LYS:HG2	1.78	0.64
22:B0:675:A:H1'	22:B0:2443:C:O2'	1.96	0.64
22:B0:2138:G:H4'	22:B0:2139:U:O5'	1.97	0.64
22:B0:2150:C:H5''	22:B0:2151:U:OP1	1.97	0.64
22:B0:2450:A:C5'	22:B0:2497:A:H62	2.10	0.64
24:B2:26:ILE:HG23	24:B2:184:LEU:HD12	1.77	0.64
28:BC:193:VAL:O	28:BC:197:GLU:HG3	1.97	0.64
33:BH:27:ARG:NE	33:BH:27:ARG:HA	2.13	0.64
35:BJ:78:ARG:HD3	35:BJ:126:ARG:HH12	1.62	0.64
38:BM:56:LYS:HE2	38:BM:73:ALA:HB1	1.80	0.64
40:BO:59:LEU:C	40:BO:61:ILE:H	2.03	0.64
48:BZ:31:LYS:H	48:BZ:31:LYS:CD	2.08	0.64
1:AA:1302:C:H5'	14:AM:16:ILE:CG1	2.26	0.64
5:AD:169:TRP:CD1	5:AD:170:LEU:HG	2.32	0.64
11:AJ:40:ILE:HG13	11:AJ:42:LEU:CD2	2.27	0.64
20:AS:16:LYS:O	20:AS:20:LYS:HG3	1.95	0.64
22:B0:478:A:H1'	43:BS:32:LYS:NZ	2.12	0.64
22:B0:529:A:H4'	22:B0:530:G:H5'	1.79	0.64
22:B0:2866:U:H1'	22:B0:2868:A:H1'	1.79	0.64
25:B5:81:LYS:H	25:B5:81:LYS:CD	2.09	0.64
26:BA:93:VAL:HG12	26:BA:115:ILE:HD11	1.78	0.64
35:BJ:29:LYS:HD2	35:BJ:29:LYS:C	2.22	0.64
1:AA:129:A:H2	1:AA:232:G:H1	1.46	0.64
2:AU:75:C:C5'	22:B0:2557:G:H8	2.10	0.64
17:AP:45:GLU:HG3	17:AP:46:LYS:N	2.12	0.64
22:B0:589:U:H2'	28:BC:47:LYS:O	1.98	0.64
22:B0:669:G:H5''	22:B0:670:A:N1	2.13	0.64
22:B0:1763:G:H2'	22:B0:1764:C:H4'	1.79	0.64
22:B0:2054:A:OP1	22:B0:2055:C:H4'	1.97	0.64
22:B0:2163:G:H2'	22:B0:2164:C:C6	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2225:A:O2'	22:B0:2226:C:OP2	2.15	0.64
26:BA:74:PRO:HA	26:BA:116:GLN:HG2	1.80	0.64
27:BB:165:MET:CE	27:BB:166:GLY:H	2.11	0.64
28:BC:35:TYR:CE2	35:BJ:18:ARG:HA	2.32	0.64
28:BC:88:ARG:HB2	35:BJ:30:THR:HB	1.80	0.64
32:BG:108:ILE:HD13	32:BG:108:ILE:N	2.11	0.64
39:BN:107:ALA:O	39:BN:111:GLU:HG2	1.96	0.64
40:BO:16:ILE:HD12	40:BO:19:GLN:HE22	1.62	0.64
40:BO:49:ARG:HH11	40:BO:49:ARG:HG3	1.62	0.64
42:BR:68:LYS:HD3	42:BR:69:ARG:N	2.12	0.64
42:BR:74:ILE:HG23	42:BR:76:ARG:CZ	2.27	0.64
45:BU:54:ARG:NH1	45:BU:55:ASP:H	1.94	0.64
5:AD:100:VAL:O	5:AD:104:MET:HG3	1.97	0.64
6:AE:114:LEU:HD13	6:AE:122:VAL:HG11	1.79	0.64
14:AM:11:HIS:H	14:AM:44:ILE:HD11	1.63	0.64
22:B0:476:G:H4'	22:B0:501:A:N6	2.13	0.64
22:B0:1493:A:N6	26:BA:187:CYS:H	1.95	0.64
22:B0:2164:C:C1'	22:B0:2165:C:H1'	2.27	0.64
22:B0:2511:U:H2'	22:B0:2578:G:N2	2.11	0.64
22:B0:2529:G:OP2	22:B0:2530:A:H8	1.80	0.64
22:B0:2624:G:OP1	22:B0:2826:A:H4'	1.98	0.64
22:B0:2734:A:H2'	22:B0:2735:G:O4'	1.97	0.64
28:BC:31:VAL:C	28:BC:33:VAL:H	2.05	0.64
42:BR:95:PHE:CD2	42:BR:96:VAL:HG23	2.32	0.64
1:AA:500:G:H2'	1:AA:501:C:C6	2.33	0.64
1:AA:1038:C:H2'	1:AA:1039:G:H8	1.63	0.64
22:B0:293:U:H2'	22:B0:295:G:C8	2.33	0.64
22:B0:1421:G:H1'	26:BA:146:LYS:HB3	1.80	0.64
22:B0:1491:A:C8	26:BA:175:LEU:CB	2.77	0.64
22:B0:1493:A:OP1	26:BA:143:VAL:HG21	1.97	0.64
22:B0:1579:A:O5'	26:BA:65:ASP:HA	1.97	0.64
22:B0:1654:A:H2'	22:B0:1655:A:H8	1.62	0.64
22:B0:1716:U:H3	22:B0:1743:G:H1	1.45	0.64
22:B0:1887:C:H3'	22:B0:1888:G:H21	1.62	0.64
22:B0:2381:A:H2'	22:B0:2382:G:H5'	1.78	0.64
28:BC:45:ALA:O	28:BC:46:GLN:HB2	1.97	0.64
28:BC:149:ILE:HG22	28:BC:150:THR:N	2.13	0.64
37:BL:96:ARG:HH22	37:BL:114:GLU:HG3	1.62	0.64
39:BN:47:ILE:HD12	39:BN:63:ILE:HD12	1.78	0.64
40:BO:43:GLN:HA	40:BO:46:TYR:HB3	1.77	0.64
41:BQ:56:ALA:C	41:BQ:58:ALA:H	2.05	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:817:C:H4'	1:AA:818:G:O5'	1.95	0.64
1:AA:981:U:C4	20:AS:5:LYS:HE3	2.32	0.64
1:AA:1394:A:N6	1:AA:1501:C:H5'	2.13	0.64
2:AV:18:G:O2'	2:AV:57:G:N2	2.30	0.64
4:AC:130:ARG:NE	6:AE:53:ARG:HD3	2.13	0.64
9:AH:46:GLU:HB3	9:AH:61:THR:HG23	1.80	0.64
22:B0:1008:A:C4'	22:B0:1009:A:H5'	2.18	0.64
22:B0:1060:U:C1'	22:B0:1062:G:H5'	2.27	0.64
22:B0:1249:U:H2'	22:B0:1250:G:C8	2.33	0.64
22:B0:1602:U:H5''	22:B0:1603:A:OP2	1.98	0.64
22:B0:2853:C:H2'	22:B0:2854:G:C8	2.33	0.64
25:B3:23:ILE:HD12	25:B3:24:SER:N	2.13	0.64
26:BA:171:VAL:HG22	26:BA:172:THR:N	2.10	0.64
32:BG:18:ASN:ND2	32:BG:19:PRO:HA	2.13	0.64
32:BG:60:VAL:HG12	32:BG:61:TYR:HD1	1.62	0.64
33:BH:136:GLN:N	33:BH:137:PRO:HD3	2.12	0.64
35:BJ:99:ASN:HB2	35:BJ:101:ILE:HG22	1.80	0.64
37:BL:98:LEU:HB3	48:BZ:52:LYS:HG2	1.80	0.64
45:BU:42:THR:HG22	45:BU:75:ASN:HA	1.77	0.64
1:AA:47:C:H4'	1:AA:48:C:OP1	1.98	0.64
2:AV:20:G:N2	2:AV:22:G:H5'	2.11	0.64
3:AB:119:GLN:HG3	3:AB:124:THR:HG23	1.80	0.64
4:AC:6:PRO:O	4:AC:10:ARG:HG2	1.98	0.64
9:AH:47:ASP:CG	9:AH:48:PHE:H	2.06	0.64
21:AT:31:ILE:O	21:AT:31:ILE:HD13	1.97	0.64
22:B0:165:A:H4'	22:B0:172:A:C8	2.32	0.64
22:B0:2176:A:H5'	24:B2:166:LYS:N	2.12	0.64
22:B0:2756:U:H4'	22:B0:2757:A:O5'	1.96	0.64
26:BA:128:THR:C	26:BA:129:LEU:HD22	2.23	0.64
28:BC:6:LYS:HE3	28:BC:119:ILE:HG12	1.79	0.64
32:BG:36:GLU:C	32:BG:38:CYS:H	2.06	0.64
37:BL:64:ARG:NH2	37:BL:67:PHE:HB3	2.01	0.64
37:BL:80:PHE:C	37:BL:82:GLU:H	2.06	0.64
49:B1:42:VAL:HG22	49:B1:43:ARG:N	2.09	0.64
1:AA:496:A:H4'	1:AA:497:G:O5'	1.95	0.64
1:AA:1009:U:H3	1:AA:1020:G:H22	1.45	0.64
2:AW:3:G:H5''	22:B0:1880:U:H5''	1.79	0.64
5:AD:59:LYS:O	5:AD:63:ILE:HG13	1.97	0.64
6:AE:60:GLN:HA	6:AE:63:MET:HE3	1.80	0.64
10:AI:49:GLN:N	10:AI:50:PRO:HD2	2.13	0.64
12:AK:24:ALA:HA	12:AK:29:THR:HG22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:63:CYS:HB3	15:AN:67:GLY:H	1.62	0.64
16:AO:61:GLN:O	16:AO:65:LEU:HG	1.98	0.64
19:AR:28:LEU:HB3	19:AR:67:LEU:HD11	1.79	0.64
22:B0:590:A:N7	28:BC:47:LYS:HA	2.11	0.64
22:B0:855:G:H1	22:B0:922:C:N4	1.96	0.64
22:B0:960:A:H3'	22:B0:2496:C:C4'	2.28	0.64
22:B0:1201:U:C2'	35:BJ:14:LYS:HG2	2.27	0.64
22:B0:1357:C:H2'	22:B0:1358:G:C8	2.33	0.64
22:B0:1579:A:H5''	26:BA:66:PHE:O	1.98	0.64
22:B0:2157:G:O2'	22:B0:2158:A:O5'	2.08	0.64
22:B0:2177:C:OP2	24:B2:167:ASN:HA	1.98	0.64
22:B0:2520:C:O2	22:B0:2565:A:H4'	1.98	0.64
26:BA:76:VAL:O	26:BA:94:LEU:HB2	1.98	0.64
26:BA:91:ALA:HB2	26:BA:105:ALA:HB2	1.80	0.64
28:BC:36:ALA:HB2	35:BJ:18:ARG:HH11	1.63	0.64
28:BC:90:GLN:CB	35:BJ:27:LEU:HB2	2.28	0.64
28:BC:108:ILE:HD13	28:BC:108:ILE:C	2.23	0.64
29:BD:168:LEU:HD12	29:BD:169:LEU:N	2.13	0.64
33:BH:36:LEU:HD12	33:BH:52:ASP:N	2.11	0.64
39:BN:105:LYS:HD3	39:BN:110:LYS:HE2	1.78	0.64
40:BO:63:ARG:HH22	40:BO:95:ALA:C	2.05	0.64
1:AA:34:C:H2'	1:AA:35:G:H8	1.63	0.64
1:AA:320:A:H2'	1:AA:321:A:C8	2.33	0.64
1:AA:406:G:H2'	1:AA:407:U:H6	1.61	0.64
1:AA:837:U:H2'	1:AA:838:G:H8	1.62	0.64
1:AA:888:G:H1'	1:AA:909:A:N6	2.12	0.64
2:AU:19:G:H5''	2:AU:20:G:OP2	1.98	0.64
9:AH:9:MET:O	9:AH:13:ILE:HG12	1.97	0.64
21:AT:53:MET:HE3	21:AT:78:LEU:HD12	1.80	0.64
22:B0:503:A:H4'	22:B0:504:A:OP1	1.97	0.64
22:B0:854:C:H2'	22:B0:855:G:C8	2.32	0.64
22:B0:1105:U:H2'	22:B0:1106:G:H8	1.62	0.64
22:B0:1495:A:OP1	26:BA:190:THR:O	2.15	0.64
22:B0:2262:U:O2	45:BU:10:ARG:HG2	1.98	0.64
22:B0:2873:A:H2'	22:B0:2873:A:N3	2.13	0.64
28:BC:89:PRO:O	28:BC:90:GLN:HG3	1.98	0.64
29:BD:91:ARG:HB2	29:BD:91:ARG:HH11	1.62	0.64
31:BF:30:LEU:H	31:BF:30:LEU:HD12	1.62	0.64
43:BS:34:ILE:HB	43:BS:61:GLU:CG	2.28	0.64
1:AA:80:A:H3'	1:AA:81:A:C5'	2.28	0.64
1:AA:482:A:O2'	1:AA:483:C:OP1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:666:G:H4'	1:AA:731:G:H22	1.63	0.64
1:AA:1182:G:H4'	1:AA:1183:U:H5''	1.79	0.64
1:AA:1221:G:N3	20:AS:1:PRO:HB2	2.12	0.64
6:AE:133:ILE:O	6:AE:137:ARG:HD3	1.98	0.64
16:AO:56:LEU:HD23	22:B0:715:A:C5	2.32	0.64
18:AQ:20:ILE:HD13	18:AQ:47:ASP:HB3	1.80	0.64
18:AQ:64:ARG:HD2	18:AQ:65:PRO:HD2	1.80	0.64
20:AS:11:ASP:HB2	20:AS:14:LEU:HG	1.80	0.64
20:AS:40:PHE:HA	20:AS:66:VAL:HG13	1.80	0.64
22:B0:1655:A:H2	22:B0:2049:G:H5''	1.61	0.64
22:B0:2296:U:C4'	22:B0:2297:A:H5'	2.25	0.64
22:B0:2364:C:H2'	22:B0:2365:G:H8	1.61	0.64
22:B0:2678:C:O5'	27:BB:125:TRP:HD1	1.80	0.64
25:B3:58:LEU:HD21	25:B3:87:VAL:HG13	1.78	0.64
25:B5:57:ILE:HG23	25:B5:92:ALA:HB1	1.80	0.64
28:BC:157:LEU:HD23	28:BC:157:LEU:H	1.62	0.64
29:BD:109:ARG:HA	29:BD:109:ARG:NE	2.13	0.64
46:BW:44:LYS:HE2	46:BW:48:ARG:HH21	1.63	0.64
1:AA:508:U:H5''	1:AA:509:A:OP1	1.97	0.63
4:AC:63:ILE:HD13	4:AC:64:ARG:H	1.61	0.63
6:AE:102:THR:HB	6:AE:121:ASN:HB3	1.78	0.63
7:AF:8:PHE:HB3	7:AF:60:VAL:CG2	2.28	0.63
15:AN:40:ARG:NH1	20:AS:17:LYS:HB3	2.12	0.63
22:B0:331:C:H5''	22:B0:332:A:OP2	1.98	0.63
22:B0:1899:A:H2	22:B0:1902:C:H41	1.45	0.63
22:B0:2198:A:O2'	22:B0:2199:A:H5'	1.97	0.63
24:B2:69:GLY:O	24:B2:156:LYS:HD2	1.98	0.63
24:B2:138:ASN:OD1	24:B2:140:LYS:HG2	1.97	0.63
33:BH:99:ARG:HA	33:BH:99:ARG:CZ	2.28	0.63
34:BI:95:ILE:HD13	34:BI:95:ILE:O	1.97	0.63
45:BU:58:LEU:O	45:BU:59:PHE:HB3	1.98	0.63
1:AA:692:U:H5'	1:AA:797:C:H5''	1.80	0.63
1:AA:762:U:H2'	1:AA:763:G:C8	2.33	0.63
1:AA:977:A:H2'	1:AA:977:A:N3	2.11	0.63
1:AA:1334:G:H4'	1:AA:1337:G:H21	1.63	0.63
6:AE:136:VAL:HG23	6:AE:137:ARG:HD2	1.80	0.63
22:B0:860:U:H1'	22:B0:2268:A:H5'	1.80	0.63
22:B0:1061:U:C1'	22:B0:1070:A:H1'	2.28	0.63
22:B0:1320:C:H41	22:B0:1329:U:H5''	1.63	0.63
22:B0:1458:C:C2'	22:B0:1459:U:H5'	2.28	0.63
22:B0:1493:A:H61	26:BA:186:ASP:H	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1668:A:H5''	22:B0:1669:A:OP1	1.98	0.63
31:BF:84:ALA:HB2	31:BF:90:LEU:HG	1.79	0.63
37:BL:96:ARG:H	37:BL:96:ARG:HE	1.46	0.63
43:BS:34:ILE:HD13	43:BS:34:ILE:C	2.24	0.63
45:BU:13:ARG:H	45:BU:13:ARG:NE	1.95	0.63
1:AA:33:A:H2'	1:AA:34:C:C6	2.33	0.63
1:AA:419:C:C3'	1:AA:540:G:N2	2.50	0.63
1:AA:448:A:N6	1:AA:482:A:H62	1.96	0.63
2:AV:19:G:H5''	2:AV:20:G:OP2	1.98	0.63
3:AB:185:ILE:HD13	3:AB:185:ILE:N	2.13	0.63
5:AD:137:SER:HB3	5:AD:138:PRO:HD2	1.79	0.63
6:AE:131:ASN:HB3	6:AE:134:ASN:HD22	1.63	0.63
17:AP:4:ILE:O	17:AP:71:VAL:HG11	1.98	0.63
22:B0:165:A:H2'	22:B0:165:A:N3	2.13	0.63
22:B0:402:A:H2'	22:B0:403:U:O4'	1.98	0.63
22:B0:641:U:O2'	22:B0:2350:C:H5''	1.97	0.63
22:B0:790:U:O2	22:B0:795:C:H5'	1.99	0.63
22:B0:1398:C:H3'	22:B0:1398:C:OP2	1.97	0.63
26:BA:244:VAL:HG22	26:BA:256:THR:O	1.98	0.63
28:BC:43:THR:HG22	28:BC:91:ASP:HB3	1.79	0.63
28:BC:180:LEU:O	28:BC:181:ILE:HG23	1.98	0.63
32:BG:133:ARG:CD	32:BG:137:LEU:HB3	2.28	0.63
34:BI:22:ILE:HB	34:BI:40:LYS:O	1.98	0.63
40:BO:12:ARG:HB3	40:BO:12:ARG:NH1	2.13	0.63
41:BQ:28:LYS:HA	41:BQ:70:LYS:HD2	1.78	0.63
1:AA:421:U:O4	5:AD:43:ARG:NE	2.31	0.63
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.34	0.63
7:AF:47:LEU:HD23	7:AF:59:TYR:OH	1.98	0.63
14:AM:67:ASP:OD1	29:BD:132:ARG:HD3	1.99	0.63
16:AO:56:LEU:HD22	22:B0:715:A:OP1	1.98	0.63
22:B0:1059:G:H2'	22:B0:1060:U:C5	2.33	0.63
22:B0:1944:U:H5''	22:B0:1945:G:OP2	1.99	0.63
22:B0:2373:G:H2'	22:B0:2374:C:C6	2.34	0.63
22:B0:2382:G:OP1	22:B0:2383:G:H5''	1.99	0.63
22:B0:2789:C:C2	22:B0:2893:G:H1'	2.33	0.63
25:B3:20:VAL:HA	25:B3:23:ILE:HG13	1.81	0.63
25:B5:49:GLU:HG2	25:B5:52:THR:HB	1.80	0.63
29:BD:79:ARG:HB3	29:BD:79:ARG:NH1	2.13	0.63
33:BH:31:GLU:C	33:BH:33:ALA:H	2.06	0.63
33:BH:68:LYS:HA	33:BH:68:LYS:HZ2	1.62	0.63
33:BH:96:ARG:CB	33:BH:97:PRO:CA	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:545:C:C3'	1:AA:546:A:H5'	2.13	0.63
2:AU:18:G:O2'	2:AU:57:G:N2	2.31	0.63
4:AC:24:ASN:HD22	4:AC:27:GLU:HB3	1.64	0.63
6:AE:81:GLN:OE1	6:AE:146:MET:HB3	1.98	0.63
9:AH:35:ILE:O	9:AH:38:VAL:HG12	1.97	0.63
22:B0:84:A:H61	22:B0:102:U:H1'	1.63	0.63
22:B0:478:A:H1'	43:BS:32:LYS:HZ1	1.63	0.63
22:B0:1206:G:N2	22:B0:1240:U:H3	1.95	0.63
22:B0:1495:A:H3'	26:BA:191:LEU:H	1.64	0.63
22:B0:1579:A:C8	26:BA:188:ARG:HD3	2.33	0.63
22:B0:1772:A:H2'	22:B0:1773:A:H4'	1.80	0.63
22:B0:2094:A:H61	22:B0:2195:U:H3	1.46	0.63
22:B0:2236:U:H2'	22:B0:2237:G:O4'	1.99	0.63
22:B0:2352:A:H2	22:B0:2365:G:H22	1.47	0.63
22:B0:2599:G:O2'	22:B0:2600:A:H5'	1.98	0.63
22:B0:2677:G:C4'	27:BB:160:LYS:HD3	2.28	0.63
28:BC:34:ALA:HB1	35:BJ:19:LEU:HB3	1.81	0.63
28:BC:36:ALA:HB2	35:BJ:18:ARG:NH1	2.13	0.63
29:BD:71:LYS:N	29:BD:71:LYS:HE2	2.14	0.63
29:BD:105:ILE:HD13	29:BD:138:PRO:HG3	1.81	0.63
33:BH:127:GLY:HA3	33:BH:131:ASN:CG	2.22	0.63
39:BN:55:HIS:CG	39:BN:56:SER:H	2.15	0.63
39:BN:83:ILE:CD1	39:BN:84:SER:H	2.10	0.63
42:BR:50:LEU:HB2	46:BW:26:PHE:CZ	2.34	0.63
43:BS:65:GLN:O	43:BS:69:VAL:HG13	1.98	0.63
45:BU:35:ILE:HG21	45:BU:70:VAL:HG21	1.80	0.63
46:BW:35:GLY:HA3	46:BW:38:GLN:HE22	1.63	0.63
47:BX:3:THR:HG22	47:BX:38:GLU:HA	1.80	0.63
7:AF:8:PHE:O	7:AF:60:VAL:HG22	1.98	0.63
13:AL:120:ARG:HH11	13:AL:120:ARG:CB	2.08	0.63
22:B0:784:G:O6	22:B0:2073:C:H5'	1.99	0.63
22:B0:1328:A:H2'	22:B0:1330:C:C5	2.34	0.63
22:B0:1845:G:H2'	22:B0:1846:G:C8	2.33	0.63
22:B0:2123:G:H4'	22:B0:2124:G:O5'	1.99	0.63
22:B0:2507:C:H42	22:B0:2582:G:H22	1.47	0.63
24:B2:172:THR:HG21	24:B2:191:LEU:HD21	1.80	0.63
26:BA:136:VAL:HG13	26:BA:163:ILE:HG22	1.81	0.63
29:BD:105:ILE:C	29:BD:107:VAL:H	2.06	0.63
34:BI:8:LEU:HD23	34:BI:8:LEU:H	1.63	0.63
36:BK:108:VAL:CG2	36:BK:109:PRO:HD2	2.27	0.63
38:BM:15:ARG:H	38:BM:15:ARG:NE	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:25:VAL:HG13	39:BN:88:ARG:NE	2.13	0.63
42:BR:73:ARG:HD2	42:BR:74:ILE:N	2.13	0.63
45:BU:35:ILE:HG23	45:BU:36:ILE:HG22	1.81	0.63
1:AA:424:G:N1	5:AD:39:GLN:NE2	2.42	0.63
1:AA:538:G:OP2	13:AL:111:GLN:OE1	2.17	0.63
1:AA:727:G:H5''	1:AA:741:G:N2	2.13	0.63
1:AA:1347:G:H1'	1:AA:1348:U:H5	1.62	0.63
6:AE:10:LEU:HD21	6:AE:38:VAL:HB	1.80	0.63
8:AG:99:ALA:O	8:AG:103:ILE:HG12	1.98	0.63
16:AO:69:LEU:HD11	16:AO:76:ARG:HD2	1.79	0.63
22:B0:363:G:H2'	22:B0:364:C:O4'	1.99	0.63
22:B0:934:U:H2'	22:B0:935:C:O4'	1.99	0.63
22:B0:1244:A:H2'	22:B0:1245:G:C8	2.33	0.63
22:B0:1421:G:N2	26:BA:149:LYS:HG2	2.14	0.63
22:B0:1992:G:H1'	22:B0:1994:C:C5	2.30	0.63
22:B0:2116:G:P	22:B0:2117:A:H5'	2.38	0.63
22:B0:2185:U:H2'	22:B0:2186:G:C8	2.34	0.63
25:B5:17:MET:HG2	25:B5:21:GLU:OE2	1.99	0.63
25:B5:42:ALA:O	25:B5:45:VAL:HG13	1.99	0.63
27:BB:22:ILE:HD12	27:BB:23:PRO:HD2	1.80	0.63
27:BB:60:VAL:C	27:BB:63:PRO:HD2	2.24	0.63
28:BC:153:LEU:HD11	28:BC:156:ASN:O	1.98	0.63
30:BE:140:ILE:HD12	30:BE:141:GLY:N	2.13	0.63
33:BH:89:PHE:CE2	33:BH:91:GLU:HB2	2.33	0.63
35:BJ:92:LEU:HD22	35:BJ:94:THR:HG22	1.81	0.63
37:BL:97:ILE:HG13	37:BL:112:TYR:C	2.24	0.63
39:BN:37:LYS:HD3	39:BN:39:LEU:HD12	1.81	0.63
39:BN:47:ILE:HG23	39:BN:63:ILE:HA	1.81	0.63
45:BU:65:LYS:H	45:BU:65:LYS:HD3	1.63	0.63
1:AA:873:A:H5''	1:AA:874:G:OP2	1.98	0.63
7:AF:77:THR:HG23	7:AF:78:PHE:HD1	1.64	0.63
22:B0:492:A:H5''	41:BQ:9:HIS:CD2	2.34	0.63
22:B0:668:A:C3'	22:B0:670:A:H61	2.11	0.63
22:B0:1083:U:O2'	25:B3:81:LYS:HG2	1.98	0.63
22:B0:1111:A:O2'	22:B0:1112:G:H1'	1.99	0.63
22:B0:1493:A:O2'	26:BA:173:LEU:HD13	1.99	0.63
22:B0:1911:U:H2'	22:B0:1912:A:O4'	1.99	0.63
22:B0:2074:U:C2'	22:B0:2075:U:H5''	2.29	0.63
22:B0:2451:A:P	22:B0:2497:A:H61	2.21	0.63
22:B0:2678:C:H5'	27:BB:124:ARG:CZ	2.29	0.63
24:B2:211:VAL:HG21	24:B2:225:GLN:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B3:50:GLU:HB3	25:B5:15:SER:C	2.24	0.63
26:BA:74:PRO:CA	26:BA:116:GLN:HG2	2.29	0.63
26:BA:175:LEU:HG	26:BA:177:SER:N	2.14	0.63
37:BL:110:MET:HE3	37:BL:111:ALA:N	2.14	0.63
1:AA:790:A:H2'	1:AA:791:G:C8	2.33	0.63
1:AA:827:U:H3	1:AA:872:A:N6	1.97	0.63
4:AC:112:ALA:CB	4:AC:184:ASN:HD22	2.12	0.63
13:AL:85:ARG:HA	13:AL:93:ARG:HA	1.80	0.63
22:B0:112:U:H2'	22:B0:113:U:O4'	1.98	0.63
22:B0:658:U:N3	28:BC:98:LYS:HD3	2.14	0.63
22:B0:801:G:OP1	28:BC:57:LYS:HD3	1.99	0.63
22:B0:1210:G:H1'	22:B0:1212:G:N3	2.14	0.63
22:B0:1421:G:C2	26:BA:149:LYS:CB	2.82	0.63
22:B0:1495:A:P	26:BA:189:ALA:C	2.82	0.63
22:B0:1814:G:H22	22:B0:1815:A:H62	1.44	0.63
27:BB:120:GLY:C	27:BB:124:ARG:HG3	2.24	0.63
28:BC:105:LEU:O	28:BC:105:LEU:HD13	1.98	0.63
28:BC:178:VAL:HA	35:BJ:17:LYS:N	2.14	0.63
35:BJ:78:ARG:HG2	35:BJ:101:ILE:HG13	1.80	0.63
37:BL:44:LEU:HA	37:BL:47:VAL:HG13	1.80	0.63
45:BU:36:ILE:CG2	45:BU:68:PHE:HB3	2.29	0.63
1:AA:109:A:H1'	1:AA:327:A:C1'	2.29	0.62
1:AA:978:A:C3'	20:AS:5:LYS:H	2.12	0.62
1:AA:1094:G:H5''	1:AA:1095:U:C5	2.33	0.62
1:AA:1381:U:H2'	8:AG:78:ARG:CZ	2.28	0.62
1:AA:1516:G:H2'	1:AA:1518:A:OP2	1.98	0.62
22:B0:1008:A:H1'	22:B0:1009:A:N7	2.14	0.62
22:B0:1275:A:H5''	22:B0:1276:A:OP1	1.98	0.62
22:B0:1381:G:H2'	22:B0:1382:G:O4'	1.99	0.62
22:B0:1496:A:H62	26:BA:194:VAL:HG21	1.62	0.62
22:B0:1538:G:H2'	22:B0:1539:A:C8	2.33	0.62
22:B0:1580:A:N9	26:BA:68:ARG:HB3	2.14	0.62
22:B0:1655:A:C2	22:B0:1656:C:H1'	2.34	0.62
22:B0:2428:G:H4'	22:B0:2429:G:N3	2.14	0.62
22:B0:2779:U:HO2'	22:B0:2780:G:P	2.21	0.62
25:B3:16:VAL:O	25:B3:20:VAL:HG23	1.99	0.62
28:BC:150:THR:HA	28:BC:166:LYS:O	1.98	0.62
32:BG:129:GLU:HA	32:BG:132:ALA:HB2	1.81	0.62
39:BN:10:GLU:H	39:BN:10:GLU:CD	2.07	0.62
41:BQ:25:ARG:CB	41:BQ:74:ILE:HD11	2.29	0.62
48:BZ:31:LYS:HG2	48:BZ:32:THR:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1266:G:N3	1:AA:1268:G:H8	1.97	0.62
2:AU:53:G:H1	2:AU:61:C:H42	1.48	0.62
5:AD:57:LYS:HD3	5:AD:202:LEU:HD23	1.81	0.62
17:AP:39:PHE:HA	17:AP:50:THR:HG22	1.81	0.62
22:B0:935:C:H2'	22:B0:936:A:C8	2.34	0.62
22:B0:1039:A:H2'	22:B0:1040:A:C8	2.34	0.62
22:B0:1578:U:H6	26:BA:101:ARG:CD	2.01	0.62
22:B0:1814:G:N2	22:B0:1815:A:H62	1.97	0.62
22:B0:2898:G:H5''	33:BH:141:ASP:HA	1.81	0.62
25:B5:46:GLU:O	25:B5:50:GLU:HG2	1.98	0.62
28:BC:150:THR:HB	28:BC:182:ALA:HB3	1.81	0.62
35:BJ:76:GLU:N	35:BJ:109:LYS:HE3	2.14	0.62
39:BN:13:LYS:H	39:BN:13:LYS:HD3	1.63	0.62
39:BN:25:VAL:HG13	39:BN:88:ARG:CD	2.28	0.62
1:AA:29:U:H3	1:AA:554:A:H2	1.47	0.62
1:AA:933:G:N3	10:AI:128:LYS:HB2	2.14	0.62
1:AA:1502:A:N6	1:AA:1504:G:N2	2.47	0.62
4:AC:109:GLU:HB2	4:AC:143:LEU:HD22	1.79	0.62
10:AI:79:ARG:O	10:AI:83:THR:HG23	1.99	0.62
17:AP:36:VAL:HG23	17:AP:56:ARG:HB3	1.80	0.62
21:AT:17:ARG:HA	21:AT:20:ASN:ND2	2.14	0.62
21:AT:48:LYS:NZ	21:AT:48:LYS:HB2	2.14	0.62
22:B0:929:U:H2'	22:B0:930:G:O4'	1.98	0.62
22:B0:1083:U:HO2'	25:B3:81:LYS:HE2	1.65	0.62
22:B0:1324:G:H5''	22:B0:1325:U:OP2	1.98	0.62
22:B0:1694:C:H4'	22:B0:1695:G:H5''	1.81	0.62
22:B0:1835:G:H1'	22:B0:1931:U:N3	2.13	0.62
22:B0:2262:U:OP1	45:BU:13:ARG:HD3	1.99	0.62
27:BB:1:MET:SD	27:BB:100:LEU:HD13	2.39	0.62
30:BE:76:ILE:O	30:BE:76:ILE:HD13	2.00	0.62
34:BI:18:ARG:HG2	34:BI:45:GLU:HB3	1.81	0.62
39:BN:23:ASP:HB3	39:BN:96:LEU:HD12	1.80	0.62
1:AA:428:G:O2'	1:AA:429:U:P	2.56	0.62
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.34	0.62
10:AI:113:LYS:O	10:AI:113:LYS:HD2	2.00	0.62
13:AL:109:ARG:HB2	13:AL:118:VAL:HG21	1.81	0.62
17:AP:12:LYS:H	17:AP:12:LYS:HD2	1.62	0.62
22:B0:287:G:H5''	22:B0:352:A:N7	2.14	0.62
22:B0:1490:C:O2'	26:BA:174:ARG:HB2	1.99	0.62
22:B0:1832:C:C3'	22:B0:1833:C:H5''	2.28	0.62
22:B0:2071:A:H2'	22:B0:2072:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B5:46:GLU:HB3	25:B5:50:GLU:CD	2.24	0.62
34:BI:38:ILE:HG22	34:BI:61:VAL:HG22	1.81	0.62
39:BN:4:ILE:HD11	39:BN:5:LYS:HD2	1.80	0.62
1:AA:484:G:H2'	1:AA:484:G:N3	2.14	0.62
2:AW:19:G:H5''	2:AW:20:G:OP2	2.00	0.62
5:AD:56:GLU:O	5:AD:60:VAL:HG23	2.00	0.62
7:AF:14:GLN:HE21	7:AF:17:GLN:HB2	1.64	0.62
18:AQ:30:HIS:HB3	18:AQ:34:GLY:H	1.64	0.62
20:AS:10:ILE:N	20:AS:10:ILE:HD12	2.14	0.62
22:B0:2262:U:H1'	45:BU:10:ARG:HH12	1.65	0.62
22:B0:2333:A:H4'	22:B0:2334:U:H5''	1.79	0.62
22:B0:2678:C:O5'	27:BB:125:TRP:CD1	2.52	0.62
22:B0:2899:A:N1	33:BH:136:GLN:HA	2.15	0.62
26:BA:141:HIS:ND1	26:BA:194:VAL:HG22	2.15	0.62
28:BC:44:ARG:HD3	28:BC:47:LYS:HG3	1.81	0.62
28:BC:49:ARG:HB3	28:BC:49:ARG:NH1	2.11	0.62
31:BF:18:GLN:CD	31:BF:18:GLN:H	2.07	0.62
40:BO:111:LYS:HE2	40:BO:111:LYS:O	1.99	0.62
45:BU:23:LYS:HZ2	45:BU:56:HIS:CB	2.12	0.62
1:AA:1242:G:H2'	1:AA:1243:C:C6	2.35	0.62
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.35	0.62
4:AC:90:VAL:HA	4:AC:93:ILE:HD13	1.81	0.62
7:AF:24:ARG:HH22	7:AF:81:ASN:HB2	1.65	0.62
22:B0:1247:A:H62	28:BC:92:HIS:HE1	1.47	0.62
22:B0:2118:U:O2	22:B0:2125:G:H4'	1.99	0.62
25:B3:16:VAL:O	25:B3:19:VAL:HG12	1.99	0.62
26:BA:71:ASP:HB2	26:BA:118:GLY:HA3	1.80	0.62
26:BA:154:ALA:HA	26:BA:176:ARG:HH11	1.64	0.62
26:BA:184:GLU:HG2	26:BA:185:ALA:N	2.14	0.62
28:BC:123:LYS:O	28:BC:126:VAL:HG22	1.99	0.62
28:BC:147:LEU:HD22	28:BC:164:LEU:HB3	1.81	0.62
29:BD:163:GLU:C	29:BD:165:GLY:H	2.04	0.62
34:BI:48:PRO:HG3	34:BI:54:LYS:HE2	1.81	0.62
36:BK:124:LEU:HD23	36:BK:124:LEU:H	1.65	0.62
43:BS:43:LYS:C	43:BS:45:GLN:H	2.07	0.62
1:AA:404:G:C8	1:AA:547:A:H5''	2.35	0.62
7:AF:74:LEU:HD13	7:AF:74:LEU:O	1.99	0.62
13:AL:98:ARG:NH1	13:AL:106:VAL:HG22	2.14	0.62
19:AR:35:SER:HA	19:AR:71:ASP:HB2	1.81	0.62
20:AS:10:ILE:HG21	20:AS:15:LEU:HD13	1.81	0.62
22:B0:69:C:H2'	22:B0:70:G:O4'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:120:U:H5'	22:B0:122:G:OP2	1.99	0.62
22:B0:959:A:C2	36:BK:79:ALA:HB1	2.35	0.62
22:B0:976:G:O2'	22:B0:1155:A:H1'	1.99	0.62
22:B0:1439:A:H4'	22:B0:1467:G:OP1	1.99	0.62
24:B2:120:MET:HE2	24:B2:120:MET:HA	1.80	0.62
28:BC:34:ALA:N	35:BJ:18:ARG:HG3	2.08	0.62
28:BC:118:LEU:HB2	28:BC:187:VAL:HA	1.80	0.62
34:BI:3:GLN:CB	34:BI:31:ARG:HB3	2.28	0.62
45:BU:77:LYS:HB3	45:BU:77:LYS:NZ	2.14	0.62
1:AA:49:U:H5'	1:AA:50:A:OP2	2.00	0.62
1:AA:516:U:H2'	1:AA:517:G:O4'	2.00	0.62
1:AA:1347:G:H1'	1:AA:1348:U:C5	2.34	0.62
3:AB:116:LEU:HB2	3:AB:140:LEU:HD21	1.82	0.62
21:AT:73:ARG:HG2	21:AT:77:ASN:ND2	2.15	0.62
22:B0:317:G:O6	35:BJ:5:THR:HG21	2.00	0.62
22:B0:799:G:C3'	28:BC:57:LYS:HB2	2.24	0.62
22:B0:904:G:H2'	22:B0:905:A:C8	2.34	0.62
22:B0:1796:U:H3	22:B0:1823:G:H1	1.47	0.62
22:B0:2156:G:OP1	22:B0:2156:G:H4'	1.99	0.62
22:B0:2789:C:O2	22:B0:2893:G:H1'	2.00	0.62
25:B5:65:LYS:O	25:B5:69:ILE:HG12	1.99	0.62
27:BB:9:VAL:CG2	27:BB:28:GLU:HG3	2.29	0.62
32:BG:18:ASN:CG	32:BG:19:PRO:HA	2.25	0.62
33:BH:45:THR:HB	33:BH:46:PRO:C	2.24	0.62
33:BH:68:LYS:HA	33:BH:68:LYS:HZ3	1.65	0.62
36:BK:20:LEU:H	36:BK:20:LEU:HD12	1.64	0.62
38:BM:16:ARG:HH21	45:BU:75:ASN:CB	2.12	0.62
39:BN:20:ARG:HA	39:BN:21:PRO:O	1.99	0.62
42:BR:24:MET:HG2	42:BR:29:THR:O	1.99	0.62
42:BR:24:MET:HG2	42:BR:30:ILE:HA	1.81	0.62
42:BR:28:ASN:HB3	42:BR:87:LEU:HB2	1.82	0.62
46:BW:39:GLN:NE2	46:BW:40:SER:H	1.98	0.62
1:AA:872:A:OP1	1:AA:872:A:H3'	2.00	0.62
2:AU:75:C:O5'	22:B0:2557:G:C5'	2.48	0.62
8:AG:28:ILE:HG13	8:AG:29:LEU:N	2.15	0.62
15:AN:56:PRO:O	15:AN:59:GLN:HG2	2.00	0.62
22:B0:952:G:H2'	22:B0:953:G:O4'	1.98	0.62
22:B0:2118:U:H1'	22:B0:2125:G:O2'	2.00	0.62
22:B0:2164:C:O4'	22:B0:2165:C:H1'	2.00	0.62
29:BD:87:LYS:HB2	29:BD:87:LYS:NZ	2.14	0.62
29:BD:153:ILE:HD13	29:BD:153:ILE:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:16:TYR:CZ	33:BH:35:ARG:HD3	2.35	0.62
38:BM:8:ILE:HD12	38:BM:8:ILE:N	2.15	0.62
38:BM:15:ARG:NH1	38:BM:25:ARG:NH1	2.48	0.62
47:BX:26:LEU:HD12	47:BX:37:ARG:HG3	1.82	0.62
48:BZ:36:LYS:HA	48:BZ:42:ILE:HD11	1.80	0.62
1:AA:104:G:H3'	21:AT:4:LYS:HZ1	1.65	0.62
1:AA:413:G:N3	1:AA:428:G:N2	2.47	0.62
1:AA:1205:U:H4'	4:AC:194:VAL:HG21	1.81	0.62
1:AA:1240:U:C6	8:AG:32:ASP:HB3	2.35	0.62
1:AA:1335:U:H5''	1:AA:1336:C:O5'	1.99	0.62
12:AK:30:ILE:HD13	12:AK:30:ILE:C	2.25	0.62
22:B0:82:U:H4'	22:B0:295:G:H4'	1.82	0.62
22:B0:1490:C:C4'	26:BA:161:VAL:HA	2.30	0.62
22:B0:1933:G:H3'	22:B0:1934:C:C6	2.35	0.62
22:B0:2161:C:C1'	22:B0:2162:G:H4'	2.30	0.62
22:B0:2563:U:OP1	34:BI:25:LEU:HD12	2.00	0.62
26:BA:143:VAL:HG22	26:BA:153:LEU:HB3	1.82	0.62
30:BE:127:GLN:HE21	30:BE:129:GLU:HB2	1.65	0.62
33:BH:54:ILE:H	33:BH:122:LEU:HA	1.65	0.62
36:BK:20:LEU:HB3	36:BK:22:GLN:HE21	1.65	0.62
42:BR:59:ASN:O	42:BR:83:ALA:HB1	1.99	0.62
45:BU:43:LYS:HE2	45:BU:44:PHE:N	2.15	0.62
45:BU:54:ARG:HH11	45:BU:55:ASP:H	1.47	0.62
49:B1:36:LYS:HE3	49:B1:36:LYS:N	2.15	0.62
1:AA:352:C:H4'	1:AA:354:G:OP1	2.00	0.61
1:AA:424:G:H2'	1:AA:425:G:O4'	2.00	0.61
1:AA:718:A:N3	1:AA:718:A:H2'	2.15	0.61
1:AA:959:A:H2'	1:AA:960:U:H5''	1.80	0.61
1:AA:1016:A:H2'	1:AA:1017:U:O4'	2.00	0.61
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.34	0.61
2:AW:20:G:N2	2:AW:22:G:H5'	2.15	0.61
3:AB:27:LYS:N	3:AB:28:PRO:HD2	2.14	0.61
19:AR:33:THR:HG22	19:AR:34:GLU:N	2.14	0.61
22:B0:529:A:H4'	22:B0:530:G:C5'	2.30	0.61
22:B0:588:U:C5	28:BC:45:ALA:HA	2.35	0.61
22:B0:977:G:H2'	22:B0:978:G:C8	2.35	0.61
22:B0:1193:G:H2'	22:B0:1194:A:H8	1.65	0.61
22:B0:1495:A:H3'	26:BA:191:LEU:N	2.15	0.61
22:B0:1513:C:H2'	22:B0:1514:U:O4'	2.00	0.61
22:B0:2127:G:OP2	22:B0:2128:G:P	2.57	0.61
22:B0:2127:G:C3'	22:B0:2166:U:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2226:C:H2'	22:B0:2227:A:H4'	1.82	0.61
25:B5:27:GLU:HA	25:B5:35:ALA:CB	2.30	0.61
28:BC:36:ALA:CB	35:BJ:18:ARG:NH1	2.63	0.61
30:BE:71:LEU:HA	30:BE:74:MET:HE3	1.81	0.61
36:BK:14:LYS:HG3	36:BK:15:GLY:N	2.14	0.61
44:BT:26:PHE:CE2	44:BT:89:ILE:HD13	2.35	0.61
48:BZ:52:LYS:HE3	48:BZ:52:LYS:N	2.11	0.61
2:AU:75:C:O2	2:AU:75:C:H2'	2.00	0.61
7:AF:7:VAL:HG22	7:AF:88:MET:O	2.00	0.61
9:AH:95:MET:O	9:AH:98:LEU:HG	2.00	0.61
15:AN:40:ARG:HG3	20:AS:13:HIS:O	1.99	0.61
22:B0:231:A:H2'	22:B0:232:G:O4'	2.00	0.61
22:B0:495:G:H4'	41:BQ:104:THR:HG23	1.82	0.61
22:B0:826:U:H4'	35:BJ:55:MET:O	2.00	0.61
22:B0:1190:G:H5''	35:BJ:41:ARG:HD2	1.81	0.61
22:B0:1495:A:C3'	26:BA:191:LEU:H	2.13	0.61
22:B0:1869:G:H22	22:B0:1872:A:P	2.23	0.61
22:B0:1964:G:O5'	22:B0:1965:C:OP2	2.17	0.61
22:B0:2035:G:O2'	22:B0:2036:C:OP1	2.16	0.61
22:B0:2287:A:H3'	22:B0:2287:A:N3	2.15	0.61
27:BB:122:VAL:C	27:BB:124:ARG:H	2.08	0.61
35:BJ:106:GLU:HG2	35:BJ:107:PHE:HD1	1.65	0.61
35:BJ:124:GLY:O	35:BJ:125:LEU:HB2	1.99	0.61
1:AA:115:G:HO2'	1:AA:116:A:H8	1.46	0.61
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.15	0.61
2:AW:46:G:O2'	2:AW:47:U:H5'	2.00	0.61
6:AE:100:GLU:HA	6:AE:121:ASN:ND2	2.15	0.61
9:AH:38:VAL:HG13	9:AH:39:LEU:HD22	1.82	0.61
19:AR:18:GLN:HB3	19:AR:20:ILE:HG22	1.81	0.61
22:B0:337:C:H2'	22:B0:338:G:O4'	2.00	0.61
22:B0:1024:G:H5'	22:B0:1025:G:O4'	2.00	0.61
22:B0:1258:U:H2'	22:B0:1259:G:C8	2.36	0.61
22:B0:2164:C:H1'	22:B0:2165:C:N1	2.15	0.61
22:B0:2323:G:H21	22:B0:2337:G:H5'	1.65	0.61
22:B0:2472:G:H21	22:B0:2529:G:N2	1.99	0.61
22:B0:2854:G:H2'	22:B0:2855:C:C6	2.35	0.61
26:BA:62:ARG:NH2	26:BA:149:LYS:HZ3	1.98	0.61
41:BQ:70:LYS:HB2	41:BQ:110:ARG:HG3	1.82	0.61
43:BS:25:LYS:NZ	43:BS:25:LYS:HB2	2.14	0.61
43:BS:64:ILE:HD12	43:BS:64:ILE:N	2.15	0.61
46:BW:27:ASN:O	46:BW:30:MET:HE2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:520:A:C2	1:AA:536:C:H1'	2.35	0.61
1:AA:1256:A:H4'	1:AA:1257:A:H5'	1.81	0.61
1:AA:1302:C:O2'	1:AA:1303:C:OP1	2.18	0.61
1:AA:1401:G:O2'	1:AA:1402:C:H5'	2.00	0.61
1:AA:1520:C:H2'	1:AA:1521:C:C6	2.36	0.61
2:AV:20:G:C3'	2:AV:21:A:H5''	2.30	0.61
5:AD:54:LEU:HD22	5:AD:55:ARG:HD2	1.82	0.61
13:AL:26:CYS:HB2	13:AL:29:LYS:HE2	1.82	0.61
20:AS:10:ILE:HG22	20:AS:15:LEU:HB2	1.82	0.61
22:B0:310:A:O2'	22:B0:311:A:H3'	2.00	0.61
22:B0:780:G:H1'	22:B0:783:A:H61	1.65	0.61
22:B0:959:A:O2'	22:B0:2495:G:O3'	2.19	0.61
22:B0:1540:A:H8	22:B0:1540:A:O5'	1.83	0.61
22:B0:1668:A:HO2'	22:B0:1670:C:H5	1.48	0.61
22:B0:2162:G:N7	22:B0:2164:C:C3'	2.63	0.61
22:B0:2165:C:OP1	22:B0:2165:C:H4'	2.00	0.61
22:B0:2501:C:H4'	22:B0:2503:A:O4'	1.99	0.61
25:B3:65:LYS:O	25:B3:69:ILE:HG12	2.00	0.61
26:BA:75:ALA:O	26:BA:115:ILE:HD13	2.00	0.61
29:BD:7:TYR:O	29:BD:8:LYS:HB2	1.99	0.61
29:BD:84:ILE:HD12	29:BD:84:ILE:O	2.00	0.61
32:BG:109:ALA:HA	32:BG:112:LYS:HE3	1.80	0.61
33:BH:36:LEU:CD1	33:BH:52:ASP:H	2.11	0.61
33:BH:99:ARG:HH22	33:BH:102:GLU:CG	2.13	0.61
35:BJ:54:GLN:NE2	35:BJ:57:LEU:H	1.98	0.61
39:BN:25:VAL:HG13	39:BN:88:ARG:HE	1.64	0.61
41:BQ:28:LYS:N	41:BQ:70:LYS:HD2	2.14	0.61
1:AA:279:A:H4'	1:AA:280:C:OP2	1.99	0.61
1:AA:496:A:O2'	1:AA:497:G:H3'	1.99	0.61
2:AV:35:A:H2'	2:AV:36:A:C8	2.36	0.61
3:AB:75:ALA:HB2	3:AB:209:VAL:HG21	1.83	0.61
4:AC:120:THR:O	4:AC:124:GLU:HG3	2.00	0.61
5:AD:2:ARG:HE	5:AD:66:VAL:HA	1.66	0.61
22:B0:656:G:H2'	22:B0:657:U:C6	2.35	0.61
22:B0:1121:C:H2'	22:B0:1122:G:C8	2.36	0.61
22:B0:2138:G:N2	22:B0:2158:A:H62	1.96	0.61
22:B0:2145:C:C2'	22:B0:2146:C:H5''	2.31	0.61
25:B5:23:ILE:HA	25:B5:26:MET:HB2	1.82	0.61
27:BB:201:LEU:HD12	27:BB:201:LEU:O	2.01	0.61
33:BH:109:LEU:N	33:BH:110:PRO:HA	2.15	0.61
33:BH:139:VAL:O	33:BH:140:LEU:HD22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BQ:17:VAL:HG21	41:BQ:101:SER:HB3	1.83	0.61
41:BQ:23:LEU:C	41:BQ:25:ARG:HE	2.08	0.61
43:BS:57:ILE:HD13	43:BS:57:ILE:C	2.26	0.61
1:AA:188:C:H2'	1:AA:189:A:C4'	2.30	0.61
1:AA:320:A:H2'	1:AA:321:A:H8	1.65	0.61
1:AA:610:U:H2'	1:AA:611:C:H6	1.64	0.61
1:AA:718:A:C1'	12:AK:117:HIS:HA	2.30	0.61
1:AA:999:C:H2'	1:AA:1000:A:C8	2.35	0.61
1:AA:1222:G:O4'	20:AS:1:PRO:CA	2.48	0.61
2:AU:73:A:H2'	2:AU:74:C:N1	2.15	0.61
5:AD:85:THR:O	5:AD:89:LEU:HG	1.99	0.61
10:AI:41:GLU:O	10:AI:44:ARG:HG2	2.00	0.61
12:AK:106:ILE:HD13	12:AK:106:ILE:C	2.24	0.61
15:AN:97:LYS:NZ	15:AN:97:LYS:HB3	2.16	0.61
22:B0:121:G:C4	22:B0:140:C:H1'	2.36	0.61
22:B0:655:A:H4'	22:B0:656:G:OP1	1.99	0.61
22:B0:800:A:C8	28:BC:55:SER:HA	2.36	0.61
22:B0:946:C:H2'	22:B0:947:A:C8	2.35	0.61
22:B0:1110:G:H1'	22:B0:1111:A:N7	2.15	0.61
22:B0:2271:G:OP1	45:BU:14:ASP:HB2	2.01	0.61
22:B0:2337:G:H3'	22:B0:2337:G:OP2	2.01	0.61
25:B3:69:ILE:O	25:B3:73:ARG:HG3	2.01	0.61
28:BC:88:ARG:HD3	35:BJ:30:THR:HB	1.81	0.61
1:AA:251:G:H5'	1:AA:252:U:OP1	2.00	0.61
1:AA:428:G:O2'	1:AA:429:U:OP2	2.17	0.61
1:AA:1504:G:H5''	1:AA:1505:G:O4'	2.01	0.61
6:AE:75:LEU:HD11	6:AE:117:ALA:O	2.00	0.61
19:AR:62:ARG:HB3	19:AR:69:TYR:CE1	2.35	0.61
22:B0:27:G:H1'	22:B0:513:A:H62	1.65	0.61
22:B0:84:A:H4'	22:B0:85:G:O4'	2.01	0.61
22:B0:311:A:H1'	22:B0:332:A:OP2	1.99	0.61
22:B0:595:C:N3	22:B0:662:G:N2	2.47	0.61
22:B0:865:C:O2	22:B0:865:C:H2'	2.01	0.61
22:B0:959:A:H62	22:B0:2250:G:H1'	1.64	0.61
22:B0:1340:U:H1'	22:B0:1603:A:H5'	1.83	0.61
22:B0:1491:A:OP2	26:BA:176:ARG:HA	1.99	0.61
22:B0:1583:G:O4'	26:BA:96:LYS:HB3	1.99	0.61
22:B0:2101:A:H2'	22:B0:2102:G:H8	1.65	0.61
24:B2:22:ILE:H	24:B2:22:ILE:HD12	1.66	0.61
25:B3:107:LYS:HD2	25:B3:119:VAL:CG2	2.29	0.61
26:BA:175:LEU:C	26:BA:177:SER:H	2.09	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:84:ILE:H	33:BH:84:ILE:CD1	2.13	0.61
37:BL:95:THR:HG21	37:BL:115:LEU:HG	1.81	0.61
39:BN:36:LYS:HB2	39:BN:36:LYS:NZ	2.16	0.61
41:BQ:49:LYS:NZ	41:BQ:49:LYS:HA	2.15	0.61
42:BR:24:MET:HG2	42:BR:30:ILE:HD13	1.82	0.61
42:BR:49:LYS:HD2	42:BR:50:LEU:CD1	2.30	0.61
46:BW:53:VAL:O	46:BW:57:LEU:HG	1.99	0.61
1:AA:51:A:H5'	1:AA:52:C:OP1	2.01	0.61
1:AA:1239:A:H4'	1:AA:1241:G:C5	2.36	0.61
6:AE:37:VAL:HG12	6:AE:116:VAL:HG21	1.81	0.61
11:AJ:26:VAL:O	11:AJ:30:LYS:HG2	2.00	0.61
19:AR:7:ARG:HH11	19:AR:7:ARG:N	1.98	0.61
22:B0:535:G:H5'	40:BO:49:ARG:HB2	1.82	0.61
22:B0:618:G:O2'	22:B0:619:G:H5'	2.01	0.61
22:B0:877:A:H2'	22:B0:878:A:H8	1.65	0.61
22:B0:1153:C:O3'	40:BO:58:GLN:HA	2.01	0.61
22:B0:1680:U:H2'	22:B0:1681:G:O4'	2.01	0.61
22:B0:2696:U:H2'	22:B0:2697:G:H8	1.66	0.61
25:B5:51:LYS:HG3	25:B5:52:THR:HG22	1.82	0.61
34:BI:41:ILE:HD13	34:BI:41:ILE:N	2.15	0.61
35:BJ:12:SER:OG	35:BJ:13:LYS:HD3	1.99	0.61
37:BL:27:SER:HA	37:BL:30:ARG:HG2	1.82	0.61
39:BN:13:LYS:HD3	39:BN:13:LYS:N	2.16	0.61
40:BO:85:ALA:HB3	40:BO:111:LYS:NZ	2.16	0.61
45:BU:79:ILE:HD13	45:BU:80:SER:N	2.15	0.61
1:AA:401:C:H2'	1:AA:402:G:C8	2.36	0.61
1:AA:419:C:O4'	1:AA:541:G:C2'	2.35	0.61
1:AA:717:U:H4'	12:AK:118:ASN:HB3	1.83	0.61
1:AA:753:A:H4'	1:AA:754:C:H5'	1.83	0.61
1:AA:1363:A:N3	1:AA:1363:A:H2'	2.16	0.61
19:AR:59:LYS:HD3	19:AR:62:ARG:HH22	1.66	0.61
22:B0:859:G:H5'	22:B0:2268:A:O2'	2.01	0.61
22:B0:910:A:H62	36:BK:10:ARG:HD3	1.66	0.61
22:B0:958:U:OP1	22:B0:958:U:H6	1.84	0.61
22:B0:1085:A:N7	25:B3:81:LYS:HD2	2.15	0.61
22:B0:1416:G:N2	26:BA:95:TYR:O	2.33	0.61
22:B0:1421:G:H1	26:BA:149:LYS:C	2.07	0.61
22:B0:1803:A:H62	22:B0:1814:G:N2	1.98	0.61
22:B0:2122:U:O5'	22:B0:2123:G:OP1	2.19	0.61
22:B0:2899:A:H8	22:B0:2899:A:O5'	1.84	0.61
35:BJ:23:ILE:HG22	35:BJ:25:SER:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BK:77:PRO:O	36:BK:78:LEU:HB2	2.01	0.61
40:BO:12:ARG:HH12	40:BO:35:PHE:HZ	1.49	0.61
42:BR:42:GLU:CD	42:BR:42:GLU:H	2.09	0.61
1:AA:634:C:H2'	1:AA:635:A:H8	1.66	0.61
1:AA:1240:U:OP2	8:AG:34:LYS:HD2	2.01	0.61
8:AG:28:ILE:CD1	8:AG:100:MET:HB3	2.31	0.61
22:B0:670:A:N3	28:BC:74:LYS:HD2	2.16	0.61
22:B0:1493:A:OP2	26:BA:143:VAL:HG23	2.01	0.61
22:B0:2554:U:H2'	22:B0:2555:U:C5	2.35	0.61
23:B9:34:A:N6	23:B9:44:G:H2'	2.16	0.61
27:BB:89:GLU:HG3	27:BB:90:PHE:N	2.16	0.61
30:BE:60:GLY:HA2	30:BE:63:GLN:HE21	1.66	0.61
39:BN:27:VAL:HG13	39:BN:88:ARG:HD2	1.83	0.61
45:BU:58:LEU:O	45:BU:58:LEU:HD12	2.01	0.61
1:AA:934:C:H5'	1:AA:935:A:OP1	2.01	0.60
4:AC:63:ILE:HD12	4:AC:65:VAL:CG2	2.30	0.60
22:B0:1142:A:H4'	22:B0:1143:A:OP1	1.99	0.60
22:B0:1283:G:N2	22:B0:1285:A:H3'	2.15	0.60
22:B0:1390:U:H5''	22:B0:1540:A:OP1	2.01	0.60
22:B0:1934:C:O2'	22:B0:1935:G:H5'	2.01	0.60
22:B0:2064:C:H2'	22:B0:2065:C:C6	2.36	0.60
22:B0:2560:A:H2'	22:B0:2561:U:C6	2.37	0.60
22:B0:2647:U:H2'	22:B0:2648:G:C8	2.36	0.60
25:B3:30:PHE:HB3	25:B3:34:ALA:HB3	1.81	0.60
26:BA:141:HIS:N	26:BA:190:THR:O	2.31	0.60
28:BC:118:LEU:HB3	28:BC:186:VAL:O	2.01	0.60
29:BD:59:ILE:H	29:BD:59:ILE:HD13	1.66	0.60
29:BD:165:GLY:C	29:BD:167:ALA:H	2.09	0.60
30:BE:101:VAL:HG13	30:BE:113:ASP:HB3	1.81	0.60
32:BG:85:ILE:O	32:BG:85:ILE:HD13	2.01	0.60
34:BI:38:ILE:H	34:BI:38:ILE:CD1	2.14	0.60
37:BL:28:LEU:HA	37:BL:34:ILE:HD11	1.83	0.60
42:BR:25:GLU:C	42:BR:26:LYS:HD2	2.26	0.60
42:BR:67:VAL:CG1	42:BR:68:LYS:H	2.09	0.60
1:AA:197:A:H62	1:AA:221:C:H4'	1.65	0.60
1:AA:1084:G:H5''	1:AA:1085:U:OP2	2.01	0.60
2:AW:18:G:O2'	2:AW:57:G:N2	2.34	0.60
17:AP:20:VAL:HG22	17:AP:35:ARG:HA	1.83	0.60
22:B0:667:U:OP2	35:BJ:48:ARG:HD2	2.00	0.60
22:B0:694:U:H5''	22:B0:1569:A:C6	2.36	0.60
22:B0:958:U:H2'	36:BK:79:ALA:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1114:C:H2'	22:B0:1115:G:H8	1.66	0.60
22:B0:1152:C:H2'	22:B0:1153:C:C6	2.36	0.60
22:B0:2262:U:H2'	45:BU:10:ARG:O	2.00	0.60
22:B0:2438:U:H5''	22:B0:2600:A:H4'	1.81	0.60
22:B0:2467:C:H2'	22:B0:2468:A:O4'	2.00	0.60
22:B0:2543:G:H21	22:B0:2646:C:C4'	2.12	0.60
22:B0:2692:G:H4'	22:B0:2847:U:O2'	2.01	0.60
22:B0:2732:G:H2'	22:B0:2734:A:C8	2.36	0.60
22:B0:2853:C:H2'	22:B0:2854:G:H8	1.65	0.60
27:BB:123:LYS:HB2	27:BB:141:ARG:NE	2.15	0.60
28:BC:43:THR:C	28:BC:90:GLN:HA	2.26	0.60
30:BE:136:ASP:OD1	30:BE:138:GLN:HG2	2.01	0.60
33:BH:35:ARG:NH2	33:BH:39:LYS:HE2	2.16	0.60
40:BO:85:ALA:HB3	40:BO:111:LYS:HZ2	1.66	0.60
1:AA:975:A:H61	11:AJ:59:LYS:NZ	2.00	0.60
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.67	0.60
1:AA:1394:A:H62	1:AA:1501:C:H5'	1.66	0.60
3:AB:162:VAL:HG12	3:AB:164:ASP:H	1.65	0.60
13:AL:85:ARG:HH12	13:AL:87:LYS:HA	1.66	0.60
15:AN:40:ARG:HA	20:AS:13:HIS:HA	1.84	0.60
22:B0:809:G:N2	28:BC:77:ILE:HD13	2.16	0.60
22:B0:960:A:O5'	22:B0:2496:C:O4'	2.19	0.60
22:B0:1140:C:H1'	22:B0:1143:A:H2'	1.82	0.60
22:B0:1197:G:N1	22:B0:1250:G:H1'	2.16	0.60
22:B0:1490:C:H4'	26:BA:161:VAL:CA	2.30	0.60
22:B0:1582:C:O2	26:BA:97:ASP:OD1	2.19	0.60
22:B0:2271:G:P	45:BU:14:ASP:HB2	2.41	0.60
22:B0:2734:A:H62	22:B0:2770:G:H21	1.49	0.60
24:B2:45:VAL:O	24:B2:169:ILE:HB	2.02	0.60
25:B5:20:VAL:HA	25:B5:23:ILE:HG12	1.84	0.60
26:BA:99:GLU:O	26:BA:100:ARG:CB	2.48	0.60
28:BC:117:ARG:HA	28:BC:185:LYS:NZ	2.15	0.60
29:BD:111:ARG:HD3	29:BD:132:ARG:NH2	2.16	0.60
31:BF:58:LEU:HD12	31:BF:59:ALA:N	2.17	0.60
33:BH:39:LYS:HG3	33:BH:40:HIS:N	2.16	0.60
34:BI:108:ARG:HD2	34:BI:116:ILE:HG13	1.83	0.60
35:BJ:70:LYS:HD3	35:BJ:70:LYS:H	1.65	0.60
39:BN:72:VAL:HG22	39:BN:73:PHE:N	2.12	0.60
41:BQ:8:ARG:HG2	41:BQ:9:HIS:HD2	1.66	0.60
49:B1:26:LYS:CE	49:B1:26:LYS:H	2.14	0.60
1:AA:7:A:O2'	1:AA:8:A:OP1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:434:U:H2'	1:AA:435:A:C8	2.36	0.60
1:AA:548:G:H2'	1:AA:549:C:C6	2.36	0.60
1:AA:912:C:O2'	1:AA:913:A:H5'	2.01	0.60
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.36	0.60
22:B0:347:A:H2'	22:B0:348:A:C8	2.37	0.60
22:B0:571:U:C4'	22:B0:572:A:OP1	2.49	0.60
22:B0:581:C:H2'	22:B0:582:A:C8	2.36	0.60
22:B0:658:U:C3'	28:BC:98:LYS:HE2	2.28	0.60
22:B0:923:G:O2'	45:BU:22:VAL:HG13	2.01	0.60
22:B0:1422:G:O4'	26:BA:149:LYS:HE2	2.01	0.60
22:B0:1700:A:H2'	22:B0:1701:A:H5'	1.82	0.60
22:B0:2238:G:H1'	22:B0:2240:U:H5	1.66	0.60
22:B0:2677:G:N7	27:BB:127:PHE:HA	2.16	0.60
25:B3:54:PHE:HB2	25:B3:119:VAL:HG13	1.82	0.60
35:BJ:89:VAL:HA	35:BJ:120:VAL:HG23	1.82	0.60
40:BO:14:LYS:C	40:BO:16:ILE:N	2.57	0.60
47:BX:31:ILE:HD13	47:BX:31:ILE:H	1.66	0.60
48:BZ:29:VAL:HB	48:BZ:33:SER:HA	1.83	0.60
1:AA:1218:C:H2'	1:AA:1219:A:C8	2.36	0.60
2:AU:18:G:H5''	2:AU:60:C:C2	2.37	0.60
2:AU:46:G:O2'	2:AU:47:U:H5'	2.01	0.60
14:AM:77:LYS:O	14:AM:77:LYS:HD3	2.00	0.60
22:B0:1142:A:OP2	22:B0:1142:A:C8	2.55	0.60
22:B0:1650:A:H2'	22:B0:1651:G:H8	1.66	0.60
22:B0:2811:G:H2'	22:B0:2812:G:C8	2.37	0.60
22:B0:2866:U:H1'	22:B0:2868:A:C1'	2.32	0.60
25:B3:55:ASP:OD2	25:B5:8:ILE:HB	2.00	0.60
26:BA:76:VAL:HG22	26:BA:94:LEU:HB3	1.81	0.60
28:BC:93:SER:HB2	35:BJ:28:GLY:N	2.16	0.60
35:BJ:92:LEU:H	35:BJ:92:LEU:CD1	2.14	0.60
42:BR:8:LEU:HB3	46:BW:29:ARG:CD	2.26	0.60
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.37	0.60
2:AW:4:G:H5'	22:B0:1881:C:OP1	2.01	0.60
4:AC:129:PHE:O	4:AC:133:MET:HG2	2.02	0.60
17:AP:14:ARG:HG3	17:AP:16:PHE:CE2	2.37	0.60
22:B0:606:U:H2'	22:B0:607:U:O4'	2.02	0.60
22:B0:800:A:H1'	22:B0:802:A:OP2	2.01	0.60
22:B0:926:G:H2'	22:B0:928:A:C8	2.36	0.60
22:B0:960:A:C4'	22:B0:2496:C:H5''	2.31	0.60
22:B0:1491:A:H2	26:BA:172:THR:HB	1.65	0.60
22:B0:1609:A:C1'	22:B0:1616:A:H1'	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2185:U:H2'	22:B0:2186:G:H8	1.64	0.60
22:B0:2200:C:H1'	22:B0:2227:A:N1	2.15	0.60
22:B0:2894:U:H3'	33:BH:9:GLU:HG3	1.84	0.60
31:BF:143:ILE:HD13	31:BF:143:ILE:C	2.26	0.60
32:BG:54:ILE:HD13	32:BG:54:ILE:C	2.26	0.60
33:BH:127:GLY:HA3	33:BH:131:ASN:ND2	2.16	0.60
35:BJ:63:LYS:HD2	35:BJ:63:LYS:H	1.67	0.60
40:BO:83:LYS:HB2	40:BO:83:LYS:NZ	2.16	0.60
42:BR:47:VAL:C	42:BR:49:LYS:H	2.09	0.60
45:BU:30:VAL:HG22	45:BU:31:LEU:H	1.66	0.60
47:BX:47:ILE:HG23	47:BX:56:VAL:HG11	1.84	0.60
48:BZ:36:LYS:HA	48:BZ:42:ILE:CD1	2.32	0.60
49:B1:34:GLU:HB3	49:B1:50:GLU:H	1.67	0.60
1:AA:242:G:O2'	1:AA:243:A:H5'	2.00	0.60
1:AA:323:U:H4'	21:AT:13:SER:HB3	1.82	0.60
1:AA:1267:C:C5	1:AA:1328:C:OP2	2.54	0.60
3:AB:14:HIS:CE1	3:AB:211:LEU:HD23	2.37	0.60
22:B0:269:C:N4	22:B0:370:G:H1	2.00	0.60
22:B0:493:G:N3	41:BQ:7:HIS:HA	2.16	0.60
22:B0:535:G:H1'	40:BO:52:ARG:CG	2.30	0.60
22:B0:618:G:N2	22:B0:619:G:H1'	2.16	0.60
22:B0:1026:G:H2'	22:B0:1027:A:O4'	2.00	0.60
22:B0:1418:G:C4	26:BA:99:GLU:HA	2.36	0.60
22:B0:1579:A:OP2	26:BA:66:PHE:HB3	2.01	0.60
22:B0:1606:C:H4'	22:B0:1607:C:H6	1.66	0.60
22:B0:2490:G:H4'	22:B0:2491:U:H5'	1.84	0.60
22:B0:2884:U:H2'	22:B0:2885:G:O4'	2.02	0.60
25:B5:18:ASP:O	25:B5:22:LEU:N	2.32	0.60
26:BA:173:LEU:O	26:BA:174:ARG:O	2.19	0.60
35:BJ:91:ASP:OD2	35:BJ:120:VAL:HG21	2.01	0.60
40:BO:82:LEU:HD13	40:BO:88:GLU:HG2	1.82	0.60
41:BQ:10:ALA:HB1	41:BQ:11:ARG:HH21	1.66	0.60
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.37	0.60
1:AA:1065:U:H5''	1:AA:1190:G:N2	2.10	0.60
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.37	0.60
1:AA:1221:G:C8	20:AS:2:ARG:HA	2.37	0.60
1:AA:1451:U:H5''	1:AA:1452:C:H5	1.66	0.60
22:B0:675:A:OP2	28:BC:61:ARG:HB3	2.01	0.60
22:B0:735:A:C5	22:B0:736:C:H1'	2.37	0.60
22:B0:2057:G:H2'	22:B0:2058:A:O4'	2.02	0.60
22:B0:2176:A:P	24:B2:167:ASN:HB3	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2233:U:H2'	22:B0:2234:G:C8	2.37	0.60
22:B0:2644:G:N1	22:B0:2676:C:H1'	2.13	0.60
22:B0:2678:C:N4	27:BB:126:ASN:HD21	1.99	0.60
25:B3:73:ARG:HE	25:B3:80:LEU:CA	2.14	0.60
26:BA:152:GLN:HA	26:BA:155:ARG:NE	2.15	0.60
26:BA:157:ALA:HA	26:BA:194:VAL:HG11	1.83	0.60
26:BA:163:ILE:HD12	26:BA:163:ILE:N	2.16	0.60
30:BE:105:SER:HB2	30:BE:151:ARG:NH2	2.16	0.60
32:BG:121:ILE:H	32:BG:121:ILE:CD1	2.15	0.60
35:BJ:76:GLU:O	35:BJ:108:ALA:HB1	2.02	0.60
36:BK:96:ILE:HD13	36:BK:102:LEU:HD21	1.84	0.60
37:BL:28:LEU:HB3	37:BL:113:ILE:HG21	1.82	0.60
41:BQ:50:VAL:O	41:BQ:51:LEU:HB3	2.02	0.60
1:AA:41:G:N2	1:AA:42:G:C5	2.70	0.60
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.67	0.60
1:AA:1239:A:H4'	1:AA:1241:G:C6	2.37	0.60
7:AF:10:VAL:HG22	7:AF:11:HIS:N	2.16	0.60
10:AI:33:SER:HB3	10:AI:36:GLN:HG3	1.84	0.60
11:AJ:52:LEU:HD12	11:AJ:52:LEU:H	1.67	0.60
22:B0:300:A:H1'	22:B0:334:C:O2'	2.02	0.60
22:B0:671:C:H1'	28:BC:76:PRO:HB2	1.84	0.60
22:B0:1495:A:OP1	26:BA:190:THR:N	2.34	0.60
22:B0:1608:A:O2'	22:B0:1609:A:OP2	2.16	0.60
23:B9:14:U:H5''	23:B9:15:A:OP2	2.02	0.60
28:BC:35:TYR:N	35:BJ:18:ARG:CB	2.51	0.60
32:BG:77:VAL:C	32:BG:79:LEU:H	2.09	0.60
33:BH:46:PRO:O	33:BH:47:HIS:CB	2.50	0.60
33:BH:55:ILE:HG23	33:BH:56:VAL:N	2.16	0.60
33:BH:100:VAL:HG13	33:BH:101:ILE:N	2.11	0.60
33:BH:122:LEU:H	33:BH:122:LEU:CD1	2.12	0.60
34:BI:78:ARG:H	39:BN:72:VAL:HG11	1.67	0.60
36:BK:25:ASP:HB2	36:BK:64:TRP:CZ2	2.37	0.60
36:BK:34:LYS:NZ	36:BK:34:LYS:HB3	2.17	0.60
38:BM:92:PHE:HE2	38:BM:111:ARG:HH21	1.48	0.60
41:BQ:21:ALA:HA	41:BQ:24:ILE:HD11	1.84	0.60
41:BQ:48:LYS:HG3	41:BQ:49:LYS:HZ3	1.67	0.60
1:AA:431:A:OP2	1:AA:432:A:OP2	2.20	0.60
8:AG:19:SER:HB3	8:AG:22:LEU:HD13	1.82	0.60
18:AQ:59:GLU:C	18:AQ:60:ILE:HD12	2.27	0.60
21:AT:38:ILE:HG13	21:AT:82:ILE:HG22	1.84	0.60
21:AT:68:LYS:H	21:AT:68:LYS:CD	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:448:U:H5''	22:B0:449:A:OP2	2.02	0.60
22:B0:796:C:H2'	22:B0:797:G:C8	2.37	0.60
22:B0:1341:G:H1'	42:BR:84:TYR:OH	2.01	0.60
22:B0:1492:G:H2'	26:BA:152:GLN:HG3	1.84	0.60
22:B0:1578:U:H5''	26:BA:101:ARG:NE	2.17	0.60
22:B0:1759:A:H2'	22:B0:1759:A:N3	2.17	0.60
22:B0:1775:U:OP1	22:B0:1980:G:H4'	2.01	0.60
22:B0:1972:G:H2'	22:B0:1973:G:C8	2.36	0.60
22:B0:2507:C:H5''	22:B0:2573:C:N4	2.16	0.60
22:B0:2899:A:H61	33:BH:137:PRO:CD	2.15	0.60
23:B9:18:G:H22	23:B9:65:U:H3	1.48	0.60
25:B3:22:LEU:O	25:B3:26:MET:HG2	2.01	0.60
25:B5:59:LYS:HD2	25:B5:116:GLU:HG2	1.84	0.60
26:BA:123:ILE:HG22	26:BA:134:ILE:HD13	1.82	0.60
26:BA:141:HIS:HD1	26:BA:194:VAL:HG22	1.66	0.60
28:BC:88:ARG:HB3	35:BJ:29:LYS:C	2.27	0.60
36:BK:63:ILE:C	36:BK:63:ILE:HD13	2.27	0.60
46:BW:28:LEU:CD1	46:BW:43:LEU:HD23	2.32	0.60
1:AA:435:A:O2'	1:AA:436:C:H5'	2.01	0.59
1:AA:1285:A:O2'	1:AA:1286:U:OP2	2.15	0.59
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.02	0.59
2:AV:20:G:C2'	2:AV:21:A:H5''	2.32	0.59
5:AD:94:GLU:HA	5:AD:99:ASN:ND2	2.17	0.59
7:AF:1:MET:HA	7:AF:68:GLN:OE1	2.02	0.59
14:AM:4:ALA:H	14:AM:7:ASN:ND2	1.98	0.59
22:B0:1491:A:C5	26:BA:174:ARG:HA	2.36	0.59
22:B0:1659:G:H2'	22:B0:1660:G:H5'	1.84	0.59
22:B0:1869:G:H2'	22:B0:1871:A:P	2.42	0.59
22:B0:2598:A:H2'	22:B0:2599:G:O4'	2.02	0.59
26:BA:191:LEU:HD23	26:BA:191:LEU:C	2.27	0.59
27:BB:92:VAL:HG23	27:BB:94:GLN:H	1.66	0.59
30:BE:102:ILE:HD12	30:BE:102:ILE:O	2.02	0.59
37:BL:41:ALA:HB1	37:BL:44:LEU:HB2	1.83	0.59
44:BT:6:ALA:HB2	44:BT:42:LEU:HD23	1.84	0.59
1:AA:300:A:H2'	1:AA:301:G:O4'	2.02	0.59
1:AA:615:G:H1	1:AA:625:U:H3	1.50	0.59
1:AA:978:A:H3'	20:AS:5:LYS:CA	2.33	0.59
1:AA:1064:G:H4'	1:AA:1065:U:O5'	2.01	0.59
1:AA:1182:G:O2'	1:AA:1183:U:OP2	2.13	0.59
1:AA:1185:G:O2'	1:AA:1186:G:H5'	2.02	0.59
6:AE:156:ARG:O	9:AH:65:PHE:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:36:ILE:HD13	7:AF:62:MET:HE2	1.83	0.59
14:AM:89:ARG:HD2	14:AM:92:ARG:NH2	2.14	0.59
22:B0:637:A:OP2	35:BJ:129:LYS:HG2	2.01	0.59
22:B0:899:A:H2'	22:B0:900:A:H8	1.66	0.59
22:B0:1080:A:H5'	32:BG:130:GLY:HA3	1.83	0.59
22:B0:1204:A:H61	22:B0:1241:A:N6	2.00	0.59
22:B0:1487:G:HO2'	26:BA:198:GLU:N	2.00	0.59
22:B0:1495:A:O4'	26:BA:189:ALA:O	2.19	0.59
23:B9:44:G:N2	23:B9:48:U:H1'	2.18	0.59
24:B2:72:VAL:HB	24:B2:156:LYS:HE2	1.83	0.59
31:BF:94:ILE:HG22	31:BF:99:ILE:HD12	1.84	0.59
31:BF:104:THR:HA	31:BF:108:VAL:O	2.01	0.59
37:BL:38:LEU:HG	37:BL:109:PRO:HG2	1.83	0.59
37:BL:75:ILE:HD13	37:BL:75:ILE:N	2.12	0.59
39:BN:85:VAL:HG22	39:BN:86:LYS:N	2.10	0.59
39:BN:102:ARG:O	39:BN:102:ARG:HD3	2.03	0.59
1:AA:12:U:H2'	1:AA:13:U:H5''	1.84	0.59
1:AA:508:U:H4'	1:AA:509:A:H8	1.65	0.59
1:AA:871:U:H5''	1:AA:872:A:OP2	2.02	0.59
1:AA:967:C:OP1	1:AA:969:A:H5'	2.02	0.59
3:AB:186:VAL:HG22	3:AB:187:ASP:N	2.17	0.59
6:AE:10:LEU:HD23	6:AE:11:GLN:N	2.17	0.59
14:AM:106:ARG:NH2	14:AM:112:ARG:HA	2.18	0.59
17:AP:32:PHE:HE2	17:AP:35:ARG:HE	1.50	0.59
21:AT:73:ARG:HG2	21:AT:77:ASN:HD21	1.67	0.59
22:B0:78:U:H3	22:B0:108:G:H1	1.48	0.59
22:B0:215:G:H4'	22:B0:216:A:C4'	2.28	0.59
22:B0:307:G:N2	22:B0:309:A:H3'	2.17	0.59
22:B0:635:C:H1'	22:B0:639:U:OP1	2.02	0.59
22:B0:910:A:C6	36:BK:10:ARG:HG2	2.38	0.59
22:B0:1492:G:H1'	26:BA:152:GLN:HE21	1.68	0.59
22:B0:1594:U:O2'	22:B0:1595:C:H5'	2.02	0.59
22:B0:1599:U:OP1	42:BR:61:LEU:HD13	2.01	0.59
22:B0:2139:U:H5''	22:B0:2140:G:OP1	2.02	0.59
22:B0:2855:C:H2'	22:B0:2856:A:C5'	2.31	0.59
22:B0:2894:U:C5	33:BH:9:GLU:HB2	2.37	0.59
25:B3:96:GLU:HA	25:B5:8:ILE:HG23	1.83	0.59
26:BA:63:ILE:H	26:BA:63:ILE:CD1	2.15	0.59
28:BC:192:ALA:O	28:BC:196:VAL:HG23	2.01	0.59
29:BD:52:ALA:C	29:BD:54:ALA:H	2.09	0.59
33:BH:90:GLU:O	33:BH:93:ILE:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BI:38:ILE:HD13	34:BI:38:ILE:N	2.17	0.59
34:BI:105:ARG:HG3	34:BI:108:ARG:HH21	1.68	0.59
37:BL:10:LEU:CD1	37:BL:10:LEU:H	2.15	0.59
37:BL:48:VAL:O	37:BL:49:GLU:HB3	2.01	0.59
44:BT:34:LYS:HD3	44:BT:34:LYS:H	1.66	0.59
49:B1:9:LYS:H	49:B1:9:LYS:CD	2.14	0.59
1:AA:892:A:H2'	1:AA:893:C:C6	2.37	0.59
5:AD:186:GLU:HG2	5:AD:189:ASP:OD2	2.03	0.59
17:AP:8:ARG:HB3	17:AP:28:ARG:HH22	1.67	0.59
22:B0:70:G:O2'	22:B0:73:A:N3	2.35	0.59
22:B0:1479:G:H5''	22:B0:1559:U:H4'	1.85	0.59
22:B0:2055:C:O2	22:B0:2055:C:H2'	2.01	0.59
22:B0:2677:G:C3'	27:BB:125:TRP:HB2	2.32	0.59
22:B0:2765:A:H3'	22:B0:2765:A:N3	2.18	0.59
22:B0:2785:C:H2'	22:B0:2786:U:C6	2.38	0.59
22:B0:2898:G:O4'	33:BH:17:VAL:HG22	2.03	0.59
27:BB:165:MET:HE3	27:BB:166:GLY:N	2.14	0.59
28:BC:88:ARG:NE	35:BJ:30:THR:HA	2.18	0.59
29:BD:16:MET:HE1	29:BD:24:VAL:HA	1.84	0.59
33:BH:118:MET:O	33:BH:122:LEU:HD11	2.02	0.59
35:BJ:101:ILE:HG23	35:BJ:101:ILE:O	2.02	0.59
39:BN:15:ASP:O	39:BN:16:VAL:C	2.46	0.59
40:BO:43:GLN:C	40:BO:45:ALA:N	2.60	0.59
40:BO:60:TRP:HA	40:BO:95:ALA:O	2.03	0.59
41:BQ:22:ASP:C	41:BQ:24:ILE:H	2.11	0.59
42:BR:11:LEU:HD12	42:BR:11:LEU:O	2.02	0.59
45:BU:44:PHE:CD2	45:BU:78:PHE:HA	2.38	0.59
46:BW:48:ARG:O	46:BW:52:ARG:HG3	2.01	0.59
1:AA:189:A:N3	1:AA:190:A:H1'	2.17	0.59
1:AA:1171:A:H2'	1:AA:1172:C:C6	2.38	0.59
5:AD:101:VAL:HG21	5:AD:122:ILE:HD13	1.84	0.59
6:AE:156:ARG:HG3	9:AH:68:LYS:NZ	2.18	0.59
7:AF:60:VAL:C	7:AF:61:LEU:HD12	2.27	0.59
8:AG:148:LYS:HG2	12:AK:60:PHE:CE1	2.37	0.59
11:AJ:21:ALA:HB2	11:AJ:93:ALA:HB2	1.83	0.59
13:AL:113:ARG:HH12	13:AL:120:ARG:HG3	1.67	0.59
18:AQ:10:ARG:HG2	18:AQ:57:VAL:HG22	1.84	0.59
22:B0:492:A:H5'	22:B0:493:G:OP2	2.03	0.59
22:B0:1493:A:OP1	26:BA:143:VAL:CG2	2.51	0.59
22:B0:2089:C:H42	22:B0:2090:A:H62	1.49	0.59
22:B0:2335:A:O2'	22:B0:2336:A:H8	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2436:G:H21	22:B0:2597:G:H22	1.50	0.59
22:B0:2546:U:H5''	22:B0:2547:A:H5'	1.83	0.59
22:B0:2750:A:H2'	22:B0:2752:C:H41	1.67	0.59
28:BC:31:VAL:HG21	28:BC:104:ALA:HB1	1.85	0.59
29:BD:129:MET:HG3	29:BD:152:ASP:HB3	1.82	0.59
33:BH:27:ARG:HA	33:BH:27:ARG:CZ	2.33	0.59
35:BJ:36:LYS:HG2	35:BJ:38:GLN:CG	2.33	0.59
37:BL:12:ARG:HA	37:BL:12:ARG:HE	1.68	0.59
37:BL:28:LEU:O	37:BL:115:LEU:HD21	2.02	0.59
37:BL:96:ARG:NE	37:BL:96:ARG:N	2.50	0.59
45:BU:70:VAL:HG23	45:BU:71:LYS:H	1.66	0.59
46:BW:14:LEU:HD22	46:BW:53:VAL:HG23	1.84	0.59
1:AA:21:G:H2'	1:AA:22:G:C8	2.38	0.59
1:AA:80:A:C3'	1:AA:81:A:H5''	2.32	0.59
1:AA:430:A:H1'	1:AA:431:A:C2	2.37	0.59
1:AA:1001:C:H1'	1:AA:1041:G:N2	2.17	0.59
6:AE:20:VAL:HB	6:AE:31:SER:O	2.03	0.59
9:AH:17:GLN:HA	9:AH:64:TYR:OH	2.02	0.59
19:AR:39:VAL:HB	19:AR:43:ILE:CG2	2.32	0.59
22:B0:18:U:H2'	22:B0:19:A:C8	2.37	0.59
22:B0:495:G:H22	41:BQ:57:ASN:ND2	2.01	0.59
22:B0:589:U:H3	28:BC:74:LYS:NZ	2.00	0.59
22:B0:759:G:H2'	22:B0:760:G:C8	2.37	0.59
22:B0:803:U:H3	28:BC:61:ARG:CZ	2.14	0.59
22:B0:851:C:O2	22:B0:851:C:H2'	2.03	0.59
22:B0:870:U:O4'	36:BK:8:LYS:NZ	2.34	0.59
22:B0:903:C:H2'	22:B0:904:G:C8	2.38	0.59
22:B0:1210:G:H4'	22:B0:1212:G:O4'	2.03	0.59
22:B0:1496:A:N6	26:BA:194:VAL:CG2	2.66	0.59
22:B0:1664:A:N6	22:B0:1996:C:H42	1.91	0.59
22:B0:2123:G:H5''	22:B0:2124:G:O5'	2.02	0.59
22:B0:2262:U:C6	45:BU:12:GLY:HA2	2.37	0.59
22:B0:2351:G:H22	22:B0:2366:A:H2	1.50	0.59
22:B0:2774:C:H2'	22:B0:2775:G:O4'	2.02	0.59
25:B3:58:LEU:HD11	25:B3:115:ALA:HB1	1.83	0.59
26:BA:101:ARG:NH1	26:BA:101:ARG:HB2	2.18	0.59
26:BA:123:ILE:HD13	26:BA:123:ILE:N	2.14	0.59
27:BB:5:VAL:HG13	27:BB:201:LEU:O	2.03	0.59
27:BB:202:ILE:C	27:BB:202:ILE:HD12	2.28	0.59
33:BH:34:ARG:HG3	33:BH:35:ARG:NH2	2.17	0.59
37:BL:36:THR:N	37:BL:110:MET:HG2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:65:LEU:O	37:BL:65:LEU:HD23	2.01	0.59
4:AC:87:ARG:HH21	4:AC:100:ILE:HG22	1.68	0.59
9:AH:116:ARG:HH11	9:AH:116:ARG:CB	2.12	0.59
10:AI:51:LEU:HD11	10:AI:62:LEU:HD11	1.84	0.59
17:AP:45:GLU:HG3	17:AP:46:LYS:H	1.67	0.59
22:B0:479:A:H4'	43:BS:59:GLU:CG	2.26	0.59
22:B0:531:C:H5'	22:B0:532:A:OP1	2.02	0.59
22:B0:574:A:O2'	22:B0:2055:C:C5	2.52	0.59
22:B0:591:U:H2'	22:B0:592:A:H8	1.68	0.59
22:B0:800:A:C2'	22:B0:801:G:H5''	2.32	0.59
22:B0:996:A:H5''	40:BO:92:LYS:CE	2.33	0.59
22:B0:1492:G:N7	26:BA:153:LEU:HA	2.17	0.59
22:B0:2382:G:H5''	22:B0:2383:G:H5''	1.84	0.59
22:B0:2450:A:OP2	22:B0:2501:C:N4	2.34	0.59
22:B0:2554:U:H2'	22:B0:2555:U:C6	2.38	0.59
25:B3:57:ILE:CG1	25:B3:92:ALA:HB1	2.30	0.59
26:BA:149:LYS:CG	26:BA:150:GLY:N	2.66	0.59
36:BK:16:ARG:HH12	36:BK:69:PRO:HG2	1.68	0.59
36:BK:77:PRO:O	36:BK:78:LEU:CB	2.51	0.59
41:BQ:55:ILE:O	41:BQ:58:ALA:HB3	2.03	0.59
1:AA:50:A:O2'	1:AA:51:A:P	2.60	0.59
1:AA:145:G:H1	1:AA:177:G:H1	1.51	0.59
1:AA:889:A:O2'	1:AA:890:G:H1'	2.03	0.59
1:AA:950:U:H3	1:AA:1231:G:H1	1.51	0.59
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.67	0.59
1:AA:1196:A:H5''	1:AA:1197:A:O5'	2.02	0.59
1:AA:1485:U:C5'	22:B0:1960:A:H4'	2.33	0.59
2:AW:1:G:H5''	49:B1:2:LYS:HD2	1.83	0.59
4:AC:150:VAL:HG13	4:AC:199:VAL:HG22	1.85	0.59
22:B0:959:A:O5'	36:BK:80:VAL:HB	2.02	0.59
22:B0:1044:C:C2'	22:B0:1045:C:H5''	2.32	0.59
22:B0:1695:G:H3'	22:B0:1695:G:N3	2.18	0.59
25:B3:50:GLU:O	25:B5:47:ALA:HB3	2.03	0.59
26:BA:242:HIS:HB3	26:BA:243:PRO:CD	2.33	0.59
30:BE:112:VAL:HG11	30:BE:150:TYR:HB3	1.85	0.59
37:BL:33:ILE:C	37:BL:34:ILE:HD12	2.27	0.59
1:AA:14:U:O5'	1:AA:14:U:H6	1.85	0.59
1:AA:950:U:H2'	1:AA:951:G:C8	2.38	0.59
5:AD:120:LYS:O	5:AD:120:LYS:HD3	2.02	0.59
17:AP:67:ILE:H	17:AP:67:ILE:CD1	2.14	0.59
20:AS:17:LYS:HA	20:AS:20:LYS:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:82:U:H5''	22:B0:295:G:O2'	2.02	0.59
22:B0:870:U:H1'	36:BK:8:LYS:HD2	1.84	0.59
22:B0:937:C:H2'	22:B0:938:G:C8	2.37	0.59
22:B0:1196:C:O2'	22:B0:1227:G:H4'	2.03	0.59
22:B0:1496:A:N3	26:BA:142:ASN:CB	2.57	0.59
22:B0:1992:G:H5''	22:B0:1993:U:OP1	2.02	0.59
22:B0:2677:G:H2'	27:BB:125:TRP:CG	2.37	0.59
24:B2:69:GLY:HA2	24:B2:156:LYS:HB3	1.85	0.59
27:BB:74:GLU:HG2	27:BB:75:ALA:N	2.13	0.59
30:BE:88:LEU:O	30:BE:88:LEU:HD22	2.02	0.59
30:BE:161:VAL:HG13	30:BE:162:ARG:HG2	1.83	0.59
37:BL:23:ASN:C	37:BL:25:ALA:H	2.10	0.59
39:BN:45:VAL:HG23	39:BN:65:ASN:OD1	2.03	0.59
40:BO:30:VAL:HB	40:BO:33:VAL:CG2	2.31	0.59
1:AA:278:G:O3'	1:AA:281:G:H5'	2.03	0.59
1:AA:404:G:C8	1:AA:546:A:O2'	2.56	0.59
1:AA:879:C:H2'	1:AA:880:C:C6	2.37	0.59
1:AA:1030:U:H4'	1:AA:1031:C:C5	2.38	0.59
2:AW:19:G:H4'	2:AW:20:G:OP1	2.01	0.59
12:AK:122:PRO:HB2	12:AK:126:ARG:HB2	1.84	0.59
14:AM:3:ILE:HB	14:AM:7:ASN:HD21	1.68	0.59
16:AO:55:LEU:O	16:AO:55:LEU:HD23	2.03	0.59
18:AQ:19:SER:C	18:AQ:20:ILE:HD12	2.27	0.59
18:AQ:22:VAL:HG11	18:AQ:60:ILE:HD11	1.84	0.59
20:AS:52:ASN:ND2	20:AS:74:ALA:HB1	2.17	0.59
20:AS:83:ALA:CA	22:B0:891:G:N7	2.61	0.59
22:B0:63:A:H4'	22:B0:64:A:N7	2.18	0.59
22:B0:493:G:N3	41:BQ:7:HIS:ND1	2.51	0.59
22:B0:662:G:OP2	28:BC:88:ARG:HG2	2.02	0.59
22:B0:775:G:H5'	22:B0:776:G:OP1	2.02	0.59
22:B0:1246:A:H5''	35:BJ:25:SER:CA	2.33	0.59
22:B0:1418:G:N9	26:BA:99:GLU:HA	2.17	0.59
22:B0:1492:G:C2	26:BA:152:GLN:HB2	2.37	0.59
22:B0:1578:U:H2'	26:BA:66:PHE:CA	2.33	0.59
24:B2:56:GLN:HE22	24:B2:202:GLN:HB2	1.68	0.59
25:B5:57:ILE:HD12	25:B5:57:ILE:N	2.17	0.59
28:BC:59:PRO:O	28:BC:60:TRP:HB2	2.02	0.59
28:BC:85:PHE:HD1	35:BJ:38:GLN:NE2	2.01	0.59
28:BC:151:GLY:HA2	28:BC:187:VAL:CG1	2.33	0.59
29:BD:49:LEU:O	29:BD:49:LEU:HD23	2.03	0.59
29:BD:146:ASP:OD1	29:BD:147:ARG:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:133:ARG:HD2	32:BG:137:LEU:HB3	1.84	0.59
37:BL:38:LEU:HB2	37:BL:39:PRO:CD	2.28	0.59
39:BN:2:ASN:HB3	39:BN:5:LYS:HZ3	1.68	0.59
40:BO:69:ARG:O	40:BO:69:ARG:HG2	2.03	0.59
40:BO:102:LYS:H	40:BO:102:LYS:CE	2.16	0.59
44:BT:4:ILE:HD12	44:BT:4:ILE:N	2.18	0.59
1:AA:497:G:H5''	1:AA:498:U:OP1	2.02	0.58
1:AA:808:C:H2'	1:AA:809:G:H8	1.68	0.58
1:AA:978:A:H3'	20:AS:5:LYS:H	1.66	0.58
1:AA:1148:U:OP1	10:AI:10:ARG:NE	2.36	0.58
1:AA:1360:A:N6	20:AS:6:LYS:HE3	2.18	0.58
2:AW:37:G:H2'	2:AW:38:A:O4'	2.03	0.58
4:AC:78:LYS:HB3	4:AC:78:LYS:NZ	2.17	0.58
5:AD:87:GLU:OE2	5:AD:186:GLU:HA	2.03	0.58
9:AH:45:ILE:CD1	9:AH:60:LEU:HD11	2.33	0.58
11:AJ:30:LYS:NZ	11:AJ:30:LYS:HB3	2.17	0.58
12:AK:13:LYS:NZ	12:AK:15:VAL:HG22	2.18	0.58
13:AL:105:GLY:HA3	13:AL:117:GLY:O	2.01	0.58
22:B0:677:A:H62	22:B0:800:A:N6	2.01	0.58
22:B0:1438:U:H5''	22:B0:1517:G:H5'	1.85	0.58
22:B0:1480:G:H2'	22:B0:1481:C:H4'	1.85	0.58
22:B0:1578:U:H2'	26:BA:66:PHE:CB	2.33	0.58
22:B0:1761:C:H2'	22:B0:1762:A:C5'	2.32	0.58
22:B0:2101:A:H2'	22:B0:2102:G:C8	2.37	0.58
25:B5:69:ILE:HD13	25:B5:87:VAL:HG21	1.85	0.58
26:BA:140:VAL:HG23	26:BA:161:VAL:CG1	2.22	0.58
27:BB:117:GLY:HA2	27:BB:164:GLN:HE22	1.66	0.58
28:BC:5:LEU:HB2	28:BC:14:VAL:HB	1.85	0.58
34:BI:66:LYS:NZ	34:BI:81:GLY:HA2	2.17	0.58
39:BN:92:ARG:HA	39:BN:92:ARG:NH1	2.18	0.58
41:BQ:83:LYS:HD2	41:BQ:84:ARG:N	2.18	0.58
45:BU:35:ILE:HG23	45:BU:36:ILE:H	1.67	0.58
46:BW:28:LEU:HD13	46:BW:43:LEU:HD23	1.84	0.58
1:AA:52:C:H42	1:AA:359:G:H1	1.51	0.58
1:AA:653:U:O2	1:AA:653:U:H2'	2.01	0.58
1:AA:965:U:O2'	1:AA:966:G:H5''	2.04	0.58
1:AA:978:A:H3'	20:AS:5:LYS:N	2.18	0.58
1:AA:1039:G:H2'	1:AA:1040:U:C6	2.38	0.58
10:AI:105:ARG:HG2	10:AI:106:ASP:N	2.17	0.58
11:AJ:7:ARG:NH1	11:AJ:7:ARG:HB2	2.17	0.58
12:AK:53:GLY:O	12:AK:56:LYS:HG2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:46:LYS:NZ	15:AN:59:GLN:HB2	2.19	0.58
21:AT:31:ILE:HG12	21:AT:78:LEU:HG	1.83	0.58
22:B0:369:U:P	22:B0:404:A:H62	2.26	0.58
22:B0:400:G:O2'	22:B0:401:A:H5''	2.03	0.58
22:B0:588:U:H5'	28:BC:43:THR:OG1	2.02	0.58
22:B0:589:U:O4	28:BC:74:LYS:HE3	2.03	0.58
22:B0:600:G:C2	28:BC:99:LYS:HG2	2.38	0.58
22:B0:1199:U:N3	22:B0:1246:A:H2	2.01	0.58
22:B0:1580:A:C8	26:BA:68:ARG:HB3	2.38	0.58
22:B0:1761:C:H2'	22:B0:1762:A:O4'	2.02	0.58
22:B0:2276:G:H2'	22:B0:2277:G:C8	2.37	0.58
24:B2:175:GLY:C	24:B2:176:LYS:HD2	2.27	0.58
28:BC:43:THR:O	28:BC:43:THR:CG2	2.50	0.58
33:BH:106:LYS:HD2	33:BH:116:ARG:HH12	1.68	0.58
40:BO:82:LEU:HD23	40:BO:108:LEU:HD21	1.85	0.58
42:BR:60:THR:HA	42:BR:83:ALA:HB1	1.85	0.58
42:BR:68:LYS:HA	42:BR:68:LYS:HZ2	1.68	0.58
45:BU:58:LEU:HB2	45:BU:81:ILE:HD13	1.85	0.58
46:BW:21:LEU:O	46:BW:25:GLN:HG3	2.03	0.58
48:BZ:31:LYS:HD3	48:BZ:31:LYS:N	2.13	0.58
1:AA:51:A:H1'	1:AA:353:A:N7	2.18	0.58
1:AA:426:U:H4'	5:AD:38:GLY:N	2.18	0.58
8:AG:46:LEU:HB3	8:AG:57:GLU:HB2	1.85	0.58
10:AI:11:ARG:HE	10:AI:12:LYS:HE3	1.68	0.58
10:AI:119:LYS:HD3	10:AI:122:ARG:HB3	1.86	0.58
11:AJ:100:ILE:H	11:AJ:100:ILE:CD1	2.10	0.58
20:AS:40:PHE:HB3	20:AS:41:PRO:HD2	1.85	0.58
22:B0:627:A:C4'	22:B0:628:G:OP1	2.51	0.58
22:B0:2156:G:H8	22:B0:2157:G:H3'	1.68	0.58
25:B3:86:LEU:HA	25:B3:91:PRO:HG2	1.85	0.58
28:BC:33:VAL:HG23	28:BC:33:VAL:O	2.02	0.58
28:BC:108:ILE:HD13	28:BC:108:ILE:O	2.03	0.58
30:BE:148:ARG:HH21	30:BE:168:VAL:HG12	1.67	0.58
32:BG:105:LEU:O	32:BG:105:LEU:HD13	2.03	0.58
33:BH:25:LEU:H	33:BH:25:LEU:CD1	2.16	0.58
42:BR:36:LYS:H	42:BR:36:LYS:CD	2.13	0.58
1:AA:17:U:H2'	1:AA:18:C:C6	2.38	0.58
1:AA:187:G:H22	1:AA:191:G:H1'	1.68	0.58
1:AA:819:A:H5''	1:AA:820:U:OP2	2.03	0.58
1:AA:1009:U:H3	1:AA:1020:G:N2	2.02	0.58
2:AU:75:C:H4'	22:B0:2557:G:H5''	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AW:53:G:H1	2:AW:61:C:H42	1.49	0.58
3:AB:214:GLY:HA3	3:AB:231:GLN:NE2	2.18	0.58
5:AD:196:GLU:H	5:AD:196:GLU:CD	2.11	0.58
7:AF:10:VAL:HG12	7:AF:58:HIS:HB3	1.84	0.58
13:AL:43:LYS:NZ	13:AL:43:LYS:HB3	2.17	0.58
19:AR:7:ARG:HD3	19:AR:7:ARG:N	2.18	0.58
22:B0:1111:A:H4'	22:B0:1112:G:OP1	2.03	0.58
22:B0:1578:U:H4'	26:BA:64:VAL:C	2.28	0.58
22:B0:1578:U:C5'	26:BA:101:ARG:HD2	2.29	0.58
22:B0:1933:G:H2'	22:B0:1934:C:O4'	2.03	0.58
22:B0:2116:G:H5'	22:B0:2117:A:OP1	2.04	0.58
22:B0:2654:A:O2'	22:B0:2655:G:H4'	2.03	0.58
27:BB:148:GLN:H	27:BB:148:GLN:CD	2.11	0.58
37:BL:38:LEU:O	37:BL:40:LYS:HG2	2.03	0.58
39:BN:27:VAL:CG1	39:BN:88:ARG:HD2	2.33	0.58
39:BN:29:VAL:HG12	39:BN:45:VAL:CG1	2.33	0.58
39:BN:50:ARG:HH21	39:BN:100:ARG:HE	1.50	0.58
39:BN:107:ALA:H	39:BN:110:LYS:HB2	1.69	0.58
40:BO:36:GLN:O	40:BO:39:ILE:HG22	2.03	0.58
44:BT:16:ALA:HA	44:BT:19:ARG:CZ	2.34	0.58
44:BT:80:HIS:CG	44:BT:81:PRO:HD2	2.39	0.58
45:BU:69:GLU:HA	45:BU:73:PRO:HB3	1.85	0.58
47:BX:6:ILE:HD12	47:BX:6:ILE:N	2.17	0.58
1:AA:691:G:H2'	1:AA:692:U:C6	2.39	0.58
4:AC:55:VAL:HB	4:AC:66:THR:OG1	2.04	0.58
6:AE:88:HIS:ND1	6:AE:89:THR:HG22	2.18	0.58
21:AT:28:ARG:HA	21:AT:31:ILE:HG22	1.85	0.58
22:B0:457:A:O2'	22:B0:458:G:H4'	2.04	0.58
22:B0:518:G:H2'	22:B0:519:U:C6	2.38	0.58
22:B0:1262:A:H2'	22:B0:1263:U:C6	2.38	0.58
22:B0:1420:U:C2	26:BA:148:GLY:HA2	2.39	0.58
22:B0:1541:G:H2'	22:B0:1542:C:C6	2.38	0.58
22:B0:1578:U:OP2	26:BA:101:ARG:CD	2.47	0.58
22:B0:2176:A:H5'	24:B2:165:ASP:O	2.02	0.58
22:B0:2249:U:H4'	22:B0:2250:G:OP1	2.04	0.58
22:B0:2583:G:H2'	22:B0:2584:U:H6	1.68	0.58
22:B0:2637:U:H2'	22:B0:2638:G:O4'	2.04	0.58
22:B0:2784:U:H2'	22:B0:2785:C:C6	2.38	0.58
23:B9:15:A:H5''	23:B9:16:G:OP2	2.03	0.58
23:B9:32:U:H5''	29:BD:8:LYS:HZ1	1.67	0.58
25:B3:84:LYS:O	25:B3:88:GLU:HG3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:220:ARG:HH22	26:BA:237:ARG:NH1	2.01	0.58
26:BA:243:PRO:HB3	26:BA:259:ASN:HD21	1.68	0.58
27:BB:130:GLN:HB3	27:BB:134:HIS:CB	2.23	0.58
28:BC:85:PHE:CD1	35:BJ:38:GLN:HA	2.38	0.58
1:AA:528:C:H4'	1:AA:535:A:N6	2.19	0.58
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.39	0.58
2:AU:73:A:H2'	2:AU:74:C:C6	2.38	0.58
3:AB:221:ARG:NH1	3:AB:229:ALA:HB3	2.18	0.58
8:AG:74:VAL:HG11	8:AG:85:GLN:HB3	1.85	0.58
22:B0:703:U:H2'	22:B0:704:G:O4'	2.02	0.58
22:B0:1359:A:H2'	22:B0:1360:G:C8	2.39	0.58
22:B0:2123:G:C5'	22:B0:2124:G:H4'	2.33	0.58
24:B2:50:ASP:HB3	24:B2:56:GLN:HG3	1.85	0.58
27:BB:157:LYS:H	27:BB:157:LYS:CD	2.14	0.58
29:BD:93:GLU:HG2	29:BD:94:ARG:NH1	2.19	0.58
41:BQ:78:GLU:HG3	41:BQ:79:GLY:N	2.15	0.58
45:BU:13:ARG:HG2	45:BU:14:ASP:N	2.17	0.58
45:BU:68:PHE:CD2	45:BU:69:GLU:HG3	2.38	0.58
49:B1:24:LYS:N	49:B1:24:LYS:HE3	2.18	0.58
1:AA:64:G:H5''	1:AA:65:A:OP1	2.03	0.58
1:AA:452:A:H62	1:AA:480:U:H3	1.51	0.58
11:AJ:36:VAL:HG22	11:AJ:76:ILE:HG12	1.86	0.58
12:AK:69:CYS:O	12:AK:73:VAL:HG23	2.02	0.58
14:AM:5:GLY:HA2	29:BD:133:GLU:CD	2.29	0.58
15:AN:68:ARG:HE	15:AN:70:HIS:HB3	1.67	0.58
16:AO:31:LEU:O	16:AO:35:ILE:HG13	2.04	0.58
21:AT:54:GLN:O	21:AT:57:VAL:HG12	2.03	0.58
22:B0:85:G:H2'	22:B0:86:G:H8	1.69	0.58
22:B0:635:C:O2'	22:B0:636:G:H5'	2.04	0.58
22:B0:669:G:H22	28:BC:74:LYS:CB	2.17	0.58
22:B0:1496:A:O2'	26:BA:63:ILE:HB	2.04	0.58
22:B0:1849:G:H2'	22:B0:1850:G:H8	1.69	0.58
22:B0:1943:U:H4'	22:B0:1944:U:O5'	2.03	0.58
22:B0:2165:C:C4	22:B0:2172:U:O2'	2.57	0.58
23:B9:42:C:O4'	29:BD:65:LEU:HD22	2.04	0.58
25:B3:10:ALA:O	25:B3:14:MET:HG2	2.04	0.58
28:BC:34:ALA:H	35:BJ:18:ARG:CG	2.09	0.58
33:BH:45:THR:HB	33:BH:46:PRO:HA	1.86	0.58
33:BH:99:ARG:HH22	33:BH:102:GLU:HG2	1.68	0.58
35:BJ:105:ILE:HG23	35:BJ:106:GLU:N	2.18	0.58
39:BN:29:VAL:HG22	39:BN:30:TRP:N	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:579:A:H2'	1:AA:580:C:O4'	2.03	0.58
1:AA:791:G:N1	1:AA:1498:U:OP1	2.37	0.58
22:B0:311:A:H5''	22:B0:312:G:OP1	2.04	0.58
22:B0:322:A:O4'	22:B0:340:A:H1'	2.04	0.58
22:B0:582:A:O3'	40:BO:10:ARG:HD2	2.03	0.58
22:B0:669:G:O4'	28:BC:52:VAL:HA	2.04	0.58
22:B0:846:U:O2'	22:B0:848:C:P	2.61	0.58
22:B0:1011:G:O2'	22:B0:1012:U:OP1	2.22	0.58
22:B0:1456:G:H1	22:B0:2703:C:H42	1.51	0.58
22:B0:1578:U:P	26:BA:63:ILE:HA	2.43	0.58
22:B0:1652:A:H2'	22:B0:1653:G:H5''	1.84	0.58
22:B0:2167:U:OP2	22:B0:2167:U:H4'	2.03	0.58
22:B0:2176:A:O5'	24:B2:168:GLY:N	2.35	0.58
22:B0:2472:G:N3	22:B0:2529:G:N2	2.50	0.58
25:B3:17:MET:O	25:B3:21:GLU:HG3	2.03	0.58
26:BA:242:HIS:HB3	26:BA:243:PRO:HD3	1.86	0.58
32:BG:108:ILE:H	32:BG:108:ILE:CD1	2.15	0.58
33:BH:96:ARG:HB2	33:BH:97:PRO:CA	2.33	0.58
37:BL:114:GLU:C	37:BL:115:LEU:HD12	2.29	0.58
38:BM:15:ARG:NE	38:BM:15:ARG:N	2.52	0.58
41:BQ:88:ARG:HH22	41:BQ:92:ARG:C	2.12	0.58
1:AA:144:G:H2'	1:AA:145:G:C8	2.39	0.58
1:AA:531:U:H4'	1:AA:532:A:C5'	2.32	0.58
1:AA:563:A:H2'	1:AA:563:A:N3	2.19	0.58
1:AA:808:C:H2'	1:AA:809:G:C8	2.39	0.58
4:AC:148:ILE:HD13	4:AC:148:ILE:C	2.29	0.58
19:AR:27:THR:HA	19:AR:30:ASN:ND2	2.18	0.58
22:B0:486:C:N3	41:BQ:6:LYS:HE2	2.18	0.58
22:B0:531:C:H4'	22:B0:532:A:O5'	2.04	0.58
22:B0:794:A:H2'	22:B0:795:C:C6	2.39	0.58
22:B0:942:G:H5''	35:BJ:42:SER:HB3	1.86	0.58
22:B0:1361:G:H1	22:B0:1370:C:N4	2.01	0.58
22:B0:2176:A:P	24:B2:167:ASN:N	2.77	0.58
22:B0:2291:U:H3	22:B0:2341:G:H1	1.50	0.58
22:B0:2336:A:HO2'	22:B0:2337:G:P	2.27	0.58
22:B0:2644:G:O2'	22:B0:2645:G:P	2.62	0.58
24:B2:171:HIS:CG	24:B2:172:THR:N	2.72	0.58
25:B3:17:MET:HB3	25:B3:53:GLU:CG	2.34	0.58
28:BC:108:ILE:HG13	28:BC:180:LEU:HB3	1.85	0.58
33:BH:15:TRP:HE3	33:BH:15:TRP:N	2.01	0.58
35:BJ:76:GLU:HB3	35:BJ:108:ALA:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:55:ALA:HA	37:BL:62:ASN:HB3	1.85	0.58
39:BN:71:ARG:H	39:BN:71:ARG:HE	1.52	0.58
42:BR:8:LEU:CB	46:BW:29:ARG:HD2	2.28	0.58
46:BW:18:LEU:O	46:BW:22:LEU:HB2	2.04	0.58
48:BZ:36:LYS:C	48:BZ:36:LYS:HD3	2.29	0.58
1:AA:419:C:O2'	5:AD:39:GLN:HG2	2.04	0.58
1:AA:424:G:N2	5:AD:39:GLN:NE2	2.51	0.58
1:AA:950:U:H2'	1:AA:951:G:H8	1.68	0.58
1:AA:1429:A:H2'	1:AA:1430:A:C8	2.39	0.58
7:AF:16:GLU:O	7:AF:19:PRO:HD2	2.04	0.58
9:AH:8:ASP:O	9:AH:12:ARG:HG3	2.03	0.58
12:AK:33:ILE:HG12	12:AK:69:CYS:SG	2.44	0.58
13:AL:56:LEU:HD11	13:AL:81:ILE:HG13	1.85	0.58
17:AP:19:VAL:O	17:AP:36:VAL:HG12	2.03	0.58
22:B0:493:G:O4'	41:BQ:9:HIS:N	2.37	0.58
22:B0:1131:G:N7	22:B0:2025:C:H4'	2.19	0.58
22:B0:1488:G:C1'	26:BA:198:GLU:HA	2.33	0.58
22:B0:1996:C:C6	27:BB:137:SER:C	2.82	0.58
22:B0:1996:C:C6	27:BB:138:LEU:N	2.62	0.58
22:B0:2160:C:C6	22:B0:2161:C:O3'	2.57	0.58
24:B2:29:LEU:HD21	24:B2:41:VAL:HG21	1.85	0.58
25:B5:47:ALA:C	25:B5:49:GLU:H	2.11	0.58
28:BC:25:GLU:HA	28:BC:28:VAL:HG22	1.84	0.58
28:BC:137:LYS:NZ	28:BC:137:LYS:HB3	2.19	0.58
33:BH:28:LEU:O	33:BH:28:LEU:HD13	2.04	0.58
33:BH:99:ARG:HA	33:BH:99:ARG:NH1	2.19	0.58
35:BJ:105:ILE:HG13	35:BJ:106:GLU:N	2.16	0.58
44:BT:77:VAL:HG13	44:BT:89:ILE:HG13	1.83	0.58
1:AA:483:C:OP2	1:AA:484:G:O3'	2.22	0.57
1:AA:591:U:H2'	1:AA:592:G:C8	2.39	0.57
1:AA:979:C:H4'	20:AS:3:SER:HB2	1.85	0.57
1:AA:1240:U:H3'	1:AA:1241:G:C8	2.38	0.57
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.19	0.57
2:AW:18:G:H1	2:AW:55:U:H6	1.52	0.57
4:AC:150:VAL:HG22	4:AC:199:VAL:HG13	1.85	0.57
19:AR:39:VAL:HB	19:AR:43:ILE:HG23	1.86	0.57
21:AT:49:ALA:O	21:AT:52:GLU:HG2	2.04	0.57
22:B0:518:G:H4'	41:BQ:18:ARG:HG3	1.85	0.57
22:B0:553:G:H2'	22:B0:554:U:O4'	2.04	0.57
22:B0:636:G:H4'	22:B0:638:G:OP1	2.04	0.57
22:B0:865:C:C2'	22:B0:866:A:H8	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1578:U:H5''	26:BA:101:ARG:NH1	2.19	0.57
22:B0:1579:A:N1	26:BA:67:LYS:C	2.51	0.57
22:B0:1992:G:N2	27:BB:138:LEU:HD11	2.18	0.57
22:B0:2075:U:P	22:B0:2238:G:H2'	2.44	0.57
22:B0:2128:G:H4'	22:B0:2165:C:C3'	2.27	0.57
22:B0:2321:U:H2'	22:B0:2322:A:H5'	1.86	0.57
22:B0:2780:G:H4'	33:BH:116:ARG:NE	2.15	0.57
27:BB:28:GLU:CA	27:BB:186:LEU:HD22	2.31	0.57
27:BB:124:ARG:NH1	27:BB:163:GLY:N	2.52	0.57
28:BC:5:LEU:HD13	28:BC:15:SER:C	2.29	0.57
41:BQ:92:ARG:HG3	41:BQ:93:ALA:N	2.17	0.57
42:BR:11:LEU:HB3	42:BR:34:VAL:HG12	1.86	0.57
43:BS:28:LEU:C	43:BS:30:SER:H	2.12	0.57
46:BW:3:ALA:O	46:BW:7:ARG:HG3	2.04	0.57
1:AA:678:U:H2'	1:AA:679:C:C6	2.39	0.57
1:AA:974:A:H5'	1:AA:975:A:OP1	2.02	0.57
1:AA:982:U:H4'	1:AA:983:A:C5'	2.33	0.57
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.03	0.57
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.39	0.57
2:AU:75:C:O2	2:AU:75:C:C2'	2.52	0.57
18:AQ:35:LYS:NZ	18:AQ:37:ILE:HG22	2.18	0.57
22:B0:749:A:H4'	22:B0:1615:C:N4	2.17	0.57
22:B0:749:A:H1'	22:B0:1617:C:O2	2.04	0.57
22:B0:799:G:H2'	28:BC:56:GLY:HA3	1.86	0.57
22:B0:868:U:O5'	22:B0:868:U:H6	1.86	0.57
22:B0:1388:G:H2'	22:B0:1389:G:H8	1.69	0.57
22:B0:1422:G:C1'	26:BA:149:LYS:HE2	2.34	0.57
22:B0:1654:A:H2'	22:B0:1655:A:C8	2.39	0.57
22:B0:1996:C:C1'	27:BB:138:LEU:C	2.77	0.57
22:B0:2154:A:C4'	22:B0:2155:U:OP1	2.52	0.57
22:B0:2405:G:H1	22:B0:2412:A:H61	1.52	0.57
22:B0:2898:G:N7	33:BH:15:TRP:C	2.62	0.57
28:BC:159:LEU:CD1	28:BC:162:ARG:HD3	2.31	0.57
29:BD:135:ILE:HD12	29:BD:135:ILE:N	2.19	0.57
33:BH:112:GLY:HA2	33:BH:113:PRO:C	2.28	0.57
34:BI:116:ILE:O	34:BI:116:ILE:HD13	2.03	0.57
36:BK:7:THR:H	36:BK:10:ARG:NH2	2.01	0.57
36:BK:42:THR:O	36:BK:46:ILE:HG13	2.04	0.57
37:BL:44:LEU:O	37:BL:48:VAL:HG12	2.04	0.57
39:BN:71:ARG:HE	39:BN:71:ARG:N	2.02	0.57
39:BN:100:ARG:NE	39:BN:100:ARG:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:102:ARG:HH11	39:BN:102:ARG:HG3	1.69	0.57
42:BR:7:LEU:CD2	46:BW:23:ARG:HA	2.34	0.57
43:BS:71:ILE:O	43:BS:82:VAL:HG21	2.03	0.57
45:BU:45:HIS:HD2	45:BU:79:ILE:HG13	1.69	0.57
45:BU:65:LYS:HD3	45:BU:65:LYS:N	2.19	0.57
48:BZ:51:ARG:HG3	48:BZ:51:ARG:HH11	1.69	0.57
1:AA:397:A:H3'	1:AA:397:A:N3	2.19	0.57
1:AA:603:U:H2'	1:AA:604:G:H8	1.69	0.57
1:AA:933:G:N2	10:AI:128:LYS:HB2	2.19	0.57
6:AE:89:THR:HG23	6:AE:90:GLY:N	2.19	0.57
22:B0:1495:A:N6	26:BA:151:GLY:HA3	2.18	0.57
22:B0:1579:A:H3'	26:BA:66:PHE:O	2.03	0.57
22:B0:2011:U:O2'	41:BQ:86:MET:HE1	2.04	0.57
22:B0:2012:G:H4'	41:BQ:86:MET:HG2	1.86	0.57
22:B0:2812:G:H2'	22:B0:2813:A:C8	2.39	0.57
22:B0:2897:U:H1'	33:BH:16:TYR:CD1	2.38	0.57
23:B9:37:C:H41	23:B9:44:G:H1	1.53	0.57
24:B2:193:VAL:HG13	24:B2:196:LYS:HE2	1.87	0.57
25:B3:57:ILE:O	25:B3:117:VAL:HG13	2.04	0.57
27:BB:79:LEU:H	27:BB:79:LEU:CD2	2.14	0.57
28:BC:34:ALA:HB2	35:BJ:20:GLY:O	2.04	0.57
29:BD:93:GLU:HG2	29:BD:94:ARG:HH12	1.68	0.57
34:BI:46:ALA:O	34:BI:48:PRO:HD3	2.04	0.57
34:BI:66:LYS:HG2	34:BI:80:ASP:O	2.04	0.57
36:BK:62:LYS:HB3	36:BK:106:ASP:HB2	1.86	0.57
37:BL:32:GLU:HA	37:BL:115:LEU:HD13	1.86	0.57
39:BN:88:ARG:HG2	39:BN:89:GLY:N	2.19	0.57
43:BS:61:GLU:HG2	43:BS:63:ALA:N	2.12	0.57
1:AA:827:U:H3	1:AA:872:A:H61	1.50	0.57
1:AA:962:C:H2'	1:AA:963:G:H8	1.68	0.57
1:AA:1266:G:N3	1:AA:1268:G:C8	2.72	0.57
1:AA:1317:C:C4	20:AS:8:PRO:HD3	2.38	0.57
1:AA:1340:A:H4'	2:AV:32:C:H5''	1.85	0.57
1:AA:1401:G:N1	1:AA:1504:G:N2	2.53	0.57
3:AB:46:VAL:HA	3:AB:49:PHE:HD2	1.70	0.57
4:AC:29:ALA:HB2	15:AN:99:SER:HB3	1.86	0.57
4:AC:64:ARG:HA	4:AC:99:GLN:HB3	1.85	0.57
6:AE:80:LEU:HD22	6:AE:80:LEU:N	2.19	0.57
8:AG:149:ALA:C	8:AG:151:ALA:H	2.11	0.57
15:AN:40:ARG:HG2	20:AS:13:HIS:HB2	1.86	0.57
17:AP:32:PHE:HZ	17:AP:35:ARG:HH21	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:215:G:H4'	22:B0:216:A:C5'	2.35	0.57
22:B0:960:A:N3	22:B0:2497:A:O4'	2.38	0.57
22:B0:1195:G:H2'	22:B0:1196:C:C6	2.39	0.57
22:B0:1923:U:H2'	22:B0:1924:C:C6	2.39	0.57
23:B9:100:G:H2'	23:B9:101:A:C8	2.39	0.57
24:B2:89:ALA:HB1	24:B2:152:VAL:HG11	1.87	0.57
42:BR:77:ARG:NH2	42:BR:79:ASP:N	2.50	0.57
45:BU:37:VAL:HG22	45:BU:38:ARG:N	2.20	0.57
45:BU:42:THR:OG1	45:BU:65:LYS:HA	2.04	0.57
1:AA:452:A:N6	1:AA:480:U:H3	2.02	0.57
1:AA:593:U:H3	1:AA:646:G:H1	1.51	0.57
1:AA:614:C:H2'	1:AA:615:G:C8	2.38	0.57
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.86	0.57
10:AI:127:SER:O	10:AI:128:LYS:C	2.46	0.57
16:AO:27:GLN:O	16:AO:31:LEU:HD13	2.05	0.57
22:B0:776:G:O2'	22:B0:777:G:OP2	2.21	0.57
22:B0:1046:A:C6	25:B5:28:GLU:HB3	2.39	0.57
22:B0:1201:U:H2'	35:BJ:14:LYS:CG	2.32	0.57
22:B0:1487:G:H22	26:BA:199:HIS:HB2	1.69	0.57
22:B0:1488:G:H1'	26:BA:198:GLU:HA	1.86	0.57
22:B0:1579:A:O2'	26:BA:130:PRO:HG3	2.04	0.57
22:B0:1666:G:H2'	22:B0:1667:G:O4'	2.03	0.57
22:B0:2147:A:H2'	22:B0:2148:G:H4'	1.86	0.57
22:B0:2262:U:P	45:BU:13:ARG:HD3	2.44	0.57
22:B0:2450:A:H5''	22:B0:2497:A:N6	2.19	0.57
22:B0:2639:A:C6	22:B0:2640:G:H1'	2.40	0.57
25:B3:108:LYS:O	25:B3:112:GLU:HG3	2.04	0.57
25:B5:73:ARG:NH1	25:B5:73:ARG:HB3	2.19	0.57
26:BA:75:ALA:O	26:BA:114:GLN:HA	2.03	0.57
26:BA:211:ARG:HA	26:BA:211:ARG:NE	2.19	0.57
28:BC:184:ASP:H	35:BJ:17:LYS:HE2	1.70	0.57
33:BH:96:ARG:CD	33:BH:99:ARG:H	2.13	0.57
44:BT:29:ILE:HD13	44:BT:29:ILE:C	2.30	0.57
44:BT:61:LEU:O	44:BT:71:LYS:HA	2.05	0.57
45:BU:38:ARG:HA	45:BU:38:ARG:NH1	2.19	0.57
45:BU:48:ALA:HB2	45:BU:76:ARG:HE	1.70	0.57
1:AA:244:U:C1'	1:AA:894:G:H1'	2.16	0.57
1:AA:381:C:H2'	1:AA:382:A:O4'	2.04	0.57
1:AA:908:A:H2'	1:AA:909:A:H8	1.68	0.57
1:AA:1306:A:H62	1:AA:1331:G:H1'	1.70	0.57
1:AA:1344:C:H4'	10:AI:119:LYS:HZ1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AU:35:A:H2'	2:AU:36:A:C8	2.39	0.57
4:AC:110:LEU:HG	4:AC:143:LEU:CD2	2.34	0.57
7:AF:8:PHE:CE1	7:AF:10:VAL:HB	2.40	0.57
11:AJ:14:ASP:HB3	11:AJ:17:LEU:CG	2.34	0.57
20:AS:8:PRO:HB2	20:AS:10:ILE:HD11	1.87	0.57
22:B0:122:G:N1	22:B0:130:C:N3	2.53	0.57
22:B0:538:A:H2'	22:B0:539:G:H5''	1.86	0.57
22:B0:1375:U:H2'	22:B0:1376:C:C6	2.39	0.57
26:BA:57:HIS:CE1	26:BA:58:LYS:HZ3	2.21	0.57
28:BC:44:ARG:HG2	28:BC:90:GLN:HG3	1.86	0.57
30:BE:18:ILE:HD13	30:BE:18:ILE:C	2.30	0.57
34:BI:52:VAL:HG13	34:BI:52:VAL:O	2.03	0.57
37:BL:28:LEU:HD13	37:BL:45:ARG:NH2	2.18	0.57
37:BL:34:ILE:HD12	37:BL:34:ILE:N	2.19	0.57
39:BN:60:VAL:C	39:BN:61:ARG:HD3	2.30	0.57
41:BQ:7:HIS:CD2	41:BQ:50:VAL:HG11	2.39	0.57
41:BQ:7:HIS:NE2	41:BQ:103:ILE:HB	2.19	0.57
1:AA:18:C:H2'	1:AA:19:A:H8	1.69	0.57
1:AA:60:A:O2'	1:AA:61:G:P	2.62	0.57
1:AA:426:U:H2'	1:AA:427:U:H6	1.66	0.57
1:AA:655:A:H1'	1:AA:755:G:H4'	1.87	0.57
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.04	0.57
4:AC:106:ARG:HG2	4:AC:107:LYS:CD	2.35	0.57
10:AI:59:LYS:C	10:AI:60:LEU:HD12	2.29	0.57
12:AK:122:PRO:HG2	12:AK:127:ARG:HG2	1.87	0.57
13:AL:109:ARG:NH1	13:AL:111:GLN:HB2	2.19	0.57
22:B0:84:A:H4'	22:B0:85:G:C4'	2.34	0.57
22:B0:343:C:H2'	22:B0:347:A:C8	2.40	0.57
22:B0:618:G:OP2	28:BC:198:GLU:HB3	2.05	0.57
22:B0:912:C:H2'	22:B0:913:U:C6	2.39	0.57
22:B0:931:U:H5''	22:B0:932:U:O5'	2.04	0.57
22:B0:1499:U:H2'	22:B0:1500:A:C8	2.39	0.57
22:B0:1771:C:H2'	22:B0:1772:A:C8	2.39	0.57
24:B2:22:ILE:HD12	24:B2:22:ILE:N	2.18	0.57
26:BA:123:ILE:O	26:BA:123:ILE:HG12	2.05	0.57
26:BA:143:VAL:O	26:BA:152:GLN:N	2.29	0.57
26:BA:146:LYS:HG3	26:BA:147:PRO:HD2	1.86	0.57
33:BH:20:ALA:HA	33:BH:23:LYS:NZ	2.19	0.57
34:BI:17:ARG:HA	34:BI:17:ARG:NE	2.19	0.57
37:BL:41:ALA:O	37:BL:45:ARG:HG2	2.04	0.57
37:BL:53:THR:HG22	37:BL:54:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:23:LYS:HD3	45:BU:56:HIS:CG	2.40	0.57
49:B1:5:ARG:HB3	49:B1:7:LYS:HZ3	1.70	0.57
1:AA:201:G:C6	1:AA:203:U:H1'	2.40	0.57
1:AA:518:C:H4'	1:AA:519:C:H5''	1.86	0.57
1:AA:566:G:C5'	1:AA:567:G:OP1	2.49	0.57
1:AA:1197:A:OP1	1:AA:1197:A:H3'	2.04	0.57
1:AA:1222:G:H1'	20:AS:1:PRO:HA	1.86	0.57
1:AA:1360:A:C6	20:AS:6:LYS:HE3	2.40	0.57
1:AA:1453:G:H3'	1:AA:1453:G:N3	2.19	0.57
2:AU:20:G:N2	2:AU:22:G:H5'	2.19	0.57
2:AU:74:C:O3'	22:B0:2556:C:H3'	2.05	0.57
15:AN:81:ILE:CD1	15:AN:82:LYS:HG2	2.35	0.57
18:AQ:11:VAL:HG23	18:AQ:56:ASP:O	2.04	0.57
22:B0:776:G:O2'	22:B0:777:G:C5'	2.52	0.57
22:B0:809:G:H4'	22:B0:1254:A:C1'	2.35	0.57
22:B0:960:A:N9	22:B0:2496:C:H5''	2.19	0.57
22:B0:2778:A:O2'	22:B0:2779:U:OP1	2.20	0.57
24:B2:208:ILE:HD13	24:B2:208:ILE:N	2.11	0.57
25:B3:50:GLU:OE2	25:B5:11:VAL:O	2.23	0.57
25:B5:14:MET:HB3	25:B5:18:ASP:CB	2.34	0.57
25:B5:46:GLU:O	25:B5:49:GLU:N	2.34	0.57
32:BG:83:ALA:CB	32:BG:137:LEU:HB2	2.35	0.57
32:BG:133:ARG:HG3	32:BG:137:LEU:CB	2.35	0.57
33:BH:16:TYR:HD2	33:BH:17:VAL:H	1.53	0.57
34:BI:57:VAL:C	34:BI:58:LEU:HD12	2.30	0.57
35:BJ:60:ARG:HB3	35:BJ:60:ARG:HH11	1.70	0.57
35:BJ:81:ASP:C	35:BJ:83:ALA:N	2.62	0.57
39:BN:91:VAL:CG1	39:BN:92:ARG:H	2.16	0.57
39:BN:95:LYS:HG3	39:BN:97:TYR:HE1	1.70	0.57
40:BO:108:LEU:O	40:BO:108:LEU:HD13	2.05	0.57
41:BQ:28:LYS:CA	41:BQ:70:LYS:HD2	2.34	0.57
42:BR:28:ASN:HB3	42:BR:87:LEU:C	2.30	0.57
1:AA:33:A:H4'	1:AA:364:A:H1'	1.87	0.57
1:AA:246:A:O2'	1:AA:247:G:H4'	2.03	0.57
1:AA:499:A:C4'	1:AA:500:G:OP1	2.53	0.57
1:AA:1297:G:H1	8:AG:41:ILE:HD11	1.70	0.57
9:AH:10:LEU:HD23	9:AH:10:LEU:C	2.30	0.57
18:AQ:60:ILE:HD12	18:AQ:60:ILE:N	2.20	0.57
19:AR:47:ARG:HE	19:AR:49:LYS:HB2	1.69	0.57
22:B0:611:C:H42	22:B0:618:G:N2	2.00	0.57
22:B0:762:U:H1'	22:B0:763:G:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:786:C:H2'	22:B0:787:C:C6	2.39	0.57
22:B0:959:A:O4'	36:BK:80:VAL:HB	2.04	0.57
22:B0:1416:G:H4'	22:B0:1587:A:C2	2.40	0.57
22:B0:1454:A:H3'	22:B0:1455:U:C5'	2.34	0.57
22:B0:1491:A:C8	26:BA:175:LEU:N	2.73	0.57
22:B0:1960:A:H2'	22:B0:1961:C:C6	2.40	0.57
22:B0:2478:A:H4'	22:B0:2528:U:C4'	2.34	0.57
23:B9:48:U:H2'	23:B9:49:C:C6	2.40	0.57
25:B3:44:PRO:C	25:B3:46:GLU:H	2.12	0.57
26:BA:54:GLY:H	26:BA:216:ARG:NH2	2.03	0.57
29:BD:47:LYS:HG2	29:BD:48:LEU:N	2.16	0.57
33:BH:114:LEU:HD13	33:BH:114:LEU:N	2.14	0.57
36:BK:63:ILE:HD13	36:BK:64:TRP:N	2.20	0.57
40:BO:2:ARG:HG2	40:BO:3:VAL:N	2.18	0.57
40:BO:40:LYS:HE2	40:BO:44:TYR:HB3	1.87	0.57
41:BQ:96:ILE:HG22	41:BQ:98:LYS:H	1.69	0.57
1:AA:34:C:H2'	1:AA:35:G:C8	2.40	0.57
1:AA:652:U:H2'	1:AA:653:U:H5''	1.87	0.57
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.05	0.57
2:AV:35:A:H2'	2:AV:36:A:H8	1.70	0.57
4:AC:48:LYS:O	4:AC:74:ILE:HD13	2.05	0.57
5:AD:2:ARG:NE	5:AD:66:VAL:HA	2.19	0.57
18:AQ:5:ARG:O	18:AQ:61:ARG:HA	2.04	0.57
22:B0:300:A:H2'	22:B0:335:C:H5''	1.85	0.57
22:B0:669:G:O6	28:BC:68:ALA:HB2	2.05	0.57
22:B0:959:A:O2'	22:B0:2495:G:C2'	2.52	0.57
22:B0:1439:A:OP1	22:B0:1517:G:H5''	2.05	0.57
22:B0:1494:A:N6	26:BA:188:ARG:HG3	2.20	0.57
22:B0:1992:G:H22	27:BB:138:LEU:CD1	2.17	0.57
22:B0:2227:A:H2'	22:B0:2228:G:C5'	2.31	0.57
22:B0:2500:U:H2'	22:B0:2501:C:H5'	1.87	0.57
22:B0:2547:A:N6	34:BI:28:SER:HB3	2.20	0.57
22:B0:2565:A:H2'	22:B0:2566:A:C1'	2.35	0.57
24:B2:62:THR:HG23	24:B2:64:LEU:HG	1.87	0.57
28:BC:88:ARG:N	28:BC:89:PRO:CD	2.64	0.57
28:BC:114:ARG:HB3	28:BC:117:ARG:CG	2.34	0.57
29:BD:106:ALA:HB2	29:BD:138:PRO:HD3	1.87	0.57
32:BG:67:THR:HG22	32:BG:68:PHE:N	2.20	0.57
35:BJ:70:LYS:HD3	35:BJ:70:LYS:N	2.20	0.57
37:BL:23:ASN:C	37:BL:25:ALA:N	2.61	0.57
37:BL:28:LEU:HD23	37:BL:28:LEU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:63:ARG:HE	40:BO:99:VAL:HB	1.70	0.57
40:BO:73:ILE:CD1	40:BO:77:LYS:HB3	2.34	0.57
40:BO:116:LEU:H	40:BO:116:LEU:CD2	2.17	0.57
48:BZ:41:HIS:O	48:BZ:42:ILE:HD13	2.05	0.57
49:B1:26:LYS:H	49:B1:26:LYS:HE3	1.70	0.57
1:AA:405:U:H5''	1:AA:406:G:O4'	2.04	0.56
1:AA:434:U:H2'	1:AA:435:A:H8	1.68	0.56
5:AD:147:LYS:N	5:AD:147:LYS:HD2	2.20	0.56
8:AG:30:MET:SD	8:AG:33:GLY:HA2	2.44	0.56
19:AR:55:ALA:O	19:AR:59:LYS:HG2	2.05	0.56
22:B0:589:U:O2	28:BC:73:ILE:HD12	2.05	0.56
22:B0:807:U:H2'	22:B0:808:G:H8	1.69	0.56
22:B0:977:G:H4'	22:B0:1001:A:H2	1.69	0.56
22:B0:1246:A:H4'	28:BC:37:ALA:O	2.05	0.56
22:B0:1248:G:O2'	22:B0:1249:U:OP1	2.19	0.56
22:B0:1422:G:C2'	22:B0:1423:A:H5''	2.29	0.56
22:B0:1498:C:H42	26:BA:155:ARG:HG2	1.70	0.56
22:B0:2282:G:OP1	22:B0:2283:C:H1'	2.05	0.56
22:B0:2514:U:H2'	22:B0:2515:C:C6	2.40	0.56
22:B0:2896:U:O2	33:BH:39:LYS:HG2	2.05	0.56
25:B5:84:LYS:NZ	25:B5:84:LYS:HB3	2.20	0.56
28:BC:44:ARG:HA	28:BC:90:GLN:HA	1.85	0.56
28:BC:118:LEU:H	28:BC:118:LEU:CD2	2.16	0.56
29:BD:32:LYS:HD2	29:BD:32:LYS:O	2.05	0.56
32:BG:92:PRO:O	32:BG:93:ASN:CB	2.52	0.56
32:BG:99:LYS:HD2	32:BG:99:LYS:O	2.04	0.56
33:BH:110:PRO:O	33:BH:111:LYS:HG2	2.05	0.56
35:BJ:78:ARG:HD3	35:BJ:126:ARG:NH1	2.20	0.56
42:BR:60:THR:HA	42:BR:83:ALA:CB	2.35	0.56
45:BU:9:THR:HG22	45:BU:10:ARG:H	1.70	0.56
47:BX:20:LYS:O	47:BX:24:LEU:HG	2.05	0.56
1:AA:6:G:H22	6:AE:105:ILE:HG13	1.67	0.56
1:AA:419:C:C1'	5:AD:39:GLN:CB	2.78	0.56
1:AA:430:A:H1'	1:AA:431:A:C6	2.39	0.56
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.87	0.56
2:AV:37:G:H2'	2:AV:38:A:O4'	2.05	0.56
2:AW:3:G:H5'	22:B0:1880:U:OP1	2.04	0.56
3:AB:202:ASN:HD22	3:AB:203:ASP:N	2.03	0.56
4:AC:130:ARG:HE	6:AE:53:ARG:HD2	1.65	0.56
13:AL:29:LYS:HG3	13:AL:58:ASN:HD21	1.69	0.56
15:AN:46:LYS:O	15:AN:46:LYS:HD3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:81:ILE:HG21	16:AO:87:ARG:HE	1.70	0.56
22:B0:109:C:H2'	22:B0:110:G:H8	1.70	0.56
22:B0:482:A:H1'	22:B0:498:G:H21	1.68	0.56
22:B0:1002:G:H2'	22:B0:1003:G:C8	2.41	0.56
22:B0:1046:A:O2'	25:B5:25:ALA:O	2.20	0.56
22:B0:1673:G:H2'	22:B0:1674:G:H5''	1.85	0.56
22:B0:1872:A:C2	22:B0:2412:A:H5'	2.40	0.56
22:B0:2052:A:H61	22:B0:2617:U:H3	1.52	0.56
22:B0:2108:A:C2	22:B0:2109:U:H1'	2.39	0.56
22:B0:2180:U:OP2	22:B0:2181:U:C6	2.58	0.56
22:B0:2407:A:H2'	22:B0:2408:U:C6	2.40	0.56
22:B0:2515:C:C5	27:BB:154:LYS:HB2	2.39	0.56
25:B5:108:LYS:O	25:B5:112:GLU:HG3	2.06	0.56
26:BA:101:ARG:HB3	26:BA:101:ARG:HH11	1.70	0.56
26:BA:141:HIS:N	26:BA:141:HIS:HD2	2.02	0.56
26:BA:143:VAL:C	26:BA:151:GLY:HA2	2.30	0.56
27:BB:37:VAL:HA	27:BB:78:GLY:CA	2.33	0.56
27:BB:122:VAL:HB	27:BB:141:ARG:HG2	1.86	0.56
34:BI:51:LYS:O	34:BI:51:LYS:HD3	2.05	0.56
37:BL:28:LEU:HD23	37:BL:28:LEU:N	2.20	0.56
44:BT:55:GLU:O	44:BT:59:GLU:HG3	2.05	0.56
48:BZ:29:VAL:HG11	48:BZ:32:THR:HG23	1.87	0.56
48:BZ:29:VAL:HG13	48:BZ:47:TYR:CZ	2.40	0.56
1:AA:31:G:O2'	1:AA:46:G:H4'	2.05	0.56
1:AA:33:A:H4'	1:AA:364:A:C1'	2.35	0.56
1:AA:129:A:H4'	1:AA:130:A:OP1	2.05	0.56
1:AA:335:C:H2'	1:AA:336:A:H8	1.70	0.56
1:AA:570:G:H5'	1:AA:820:U:O4'	2.05	0.56
1:AA:655:A:H8	1:AA:655:A:O5'	1.87	0.56
1:AA:689:C:H2'	1:AA:690:G:C8	2.41	0.56
2:AU:75:C:N4	22:B0:2558:C:C5	2.73	0.56
2:AW:18:G:C2'	2:AW:57:G:H22	2.18	0.56
5:AD:115:GLN:HE22	5:AD:153:ARG:HH12	1.53	0.56
5:AD:169:TRP:CD2	5:AD:185:PRO:HB3	2.40	0.56
12:AK:117:HIS:O	12:AK:118:ASN:HB2	2.05	0.56
16:AO:7:THR:O	16:AO:11:VAL:HG23	2.05	0.56
16:AO:56:LEU:HD12	16:AO:57:ARG:CZ	2.35	0.56
18:AQ:28:VAL:O	18:AQ:37:ILE:HG12	2.05	0.56
22:B0:351:C:C2	22:B0:352:A:H1'	2.40	0.56
22:B0:368:A:H2'	22:B0:369:U:O4'	2.05	0.56
22:B0:493:G:H21	41:BQ:7:HIS:CG	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:659:G:H2'	22:B0:660:C:C6	2.39	0.56
22:B0:874:G:H5'	36:BK:25:ASP:HB3	1.88	0.56
22:B0:960:A:H3'	22:B0:2496:C:H5''	1.87	0.56
22:B0:1324:G:H4'	22:B0:1616:A:N6	2.20	0.56
22:B0:1416:G:C2	26:BA:94:LEU:HD22	2.40	0.56
22:B0:1426:G:H1'	22:B0:1572:A:N6	2.20	0.56
22:B0:1629:U:H2'	22:B0:1630:A:C8	2.40	0.56
22:B0:1833:C:H2'	22:B0:1834:U:N1	2.19	0.56
22:B0:1872:A:O2'	22:B0:1877:A:H5'	2.05	0.56
22:B0:2093:G:H2'	22:B0:2094:A:H8	1.70	0.56
22:B0:2677:G:H4'	27:BB:160:LYS:HD3	1.88	0.56
24:B2:64:LEU:HD12	24:B2:160:VAL:HG11	1.87	0.56
26:BA:64:VAL:HG11	26:BA:150:GLY:HA2	1.87	0.56
26:BA:142:ASN:CB	26:BA:190:THR:OG1	2.54	0.56
28:BC:24:ASN:HB2	28:BC:27:LEU:HB2	1.88	0.56
28:BC:91:ASP:HA	35:BJ:29:LYS:CB	2.28	0.56
28:BC:92:HIS:N	35:BJ:29:LYS:N	2.53	0.56
32:BG:74:PRO:O	32:BG:75:ALA:CB	2.52	0.56
32:BG:91:LYS:HD3	32:BG:91:LYS:N	2.17	0.56
35:BJ:46:VAL:HG23	35:BJ:47:ARG:N	2.15	0.56
37:BL:22:ARG:O	37:BL:23:ASN:HB2	2.05	0.56
39:BN:3:ILE:HG22	39:BN:3:ILE:O	2.04	0.56
39:BN:36:LYS:HE3	39:BN:37:LYS:HZ1	1.70	0.56
39:BN:37:LYS:HD2	39:BN:37:LYS:O	2.03	0.56
42:BR:13:ALA:HB2	46:BW:32:ALA:HB1	1.88	0.56
45:BU:17:ALA:HB1	45:BU:35:ILE:HA	1.87	0.56
1:AA:640:A:H2'	1:AA:641:U:O4'	2.05	0.56
1:AA:684:U:H2'	1:AA:685:G:O4'	2.06	0.56
1:AA:892:A:H4'	1:AA:1415:G:H4'	1.87	0.56
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.05	0.56
2:AV:19:G:H4'	2:AV:20:G:OP1	2.05	0.56
5:AD:76:LYS:NZ	5:AD:76:LYS:HB3	2.19	0.56
6:AE:15:ILE:HB	6:AE:35:LEU:HB2	1.86	0.56
7:AF:12:PRO:HD2	7:AF:54:LEU:HD23	1.88	0.56
7:AF:89:VAL:O	7:AF:89:VAL:HG23	2.05	0.56
9:AH:29:SER:HB3	9:AH:32:LYS:CG	2.34	0.56
10:AI:114:LYS:N	10:AI:120:ALA:HB2	2.19	0.56
22:B0:599:A:H2'	22:B0:600:G:H8	1.69	0.56
22:B0:677:A:N6	22:B0:800:A:N6	2.53	0.56
22:B0:1313:U:O2	22:B0:1313:U:C2'	2.53	0.56
22:B0:1343:G:H5'	22:B0:1598:A:OP2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1822:C:H2'	22:B0:1823:G:C8	2.40	0.56
22:B0:2001:C:H2'	22:B0:2002:G:C8	2.40	0.56
22:B0:2542:A:H4'	22:B0:2543:G:H8	1.68	0.56
22:B0:2553:G:H2'	22:B0:2554:U:H4'	1.87	0.56
22:B0:2563:U:H4'	34:BI:28:SER:OG	2.05	0.56
24:B2:7:MET:O	24:B2:10:ILE:HG22	2.06	0.56
26:BA:48:ILE:O	26:BA:49:THR:HG23	2.04	0.56
26:BA:140:VAL:O	26:BA:161:VAL:N	2.38	0.56
27:BB:125:TRP:O	27:BB:126:ASN:ND2	2.38	0.56
29:BD:149:ARG:HD2	29:BD:149:ARG:C	2.30	0.56
30:BE:85:LYS:HG3	30:BE:169:ARG:HH21	1.69	0.56
34:BI:11:ALA:HB3	34:BI:85:VAL:HG22	1.88	0.56
36:BK:18:ARG:NH1	36:BK:50:ARG:HG3	2.20	0.56
41:BQ:18:ARG:O	41:BQ:19:LEU:HB3	2.05	0.56
42:BR:65:GLY:H	42:BR:77:ARG:HH21	1.49	0.56
46:BW:33:ALA:O	46:BW:34:SER:HB2	2.06	0.56
1:AA:188:C:H2'	1:AA:189:A:O4'	2.05	0.56
1:AA:610:U:O2'	1:AA:611:C:H5'	2.06	0.56
1:AA:965:U:H1'	1:AA:969:A:C4	2.41	0.56
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.41	0.56
1:AA:1385:G:N3	10:AI:128:LYS:CE	2.66	0.56
6:AE:80:LEU:HG	6:AE:95:MET:SD	2.45	0.56
7:AF:18:VAL:HA	7:AF:21:MET:HE2	1.86	0.56
10:AI:56:MET:HE3	10:AI:60:LEU:HD11	1.87	0.56
17:AP:14:ARG:HB2	17:AP:14:ARG:HH11	1.67	0.56
20:AS:12:LEU:HD12	20:AS:13:HIS:N	2.20	0.56
22:B0:443:A:C6	28:BC:40:ARG:HG2	2.40	0.56
22:B0:793:A:O2'	22:B0:794:A:H5'	2.06	0.56
22:B0:918:A:O2'	23:B9:81:G:O3'	2.23	0.56
22:B0:1267:U:H3	22:B0:2014:A:N6	2.04	0.56
22:B0:1495:A:OP1	26:BA:140:VAL:HB	2.05	0.56
22:B0:1581:A:OP1	26:BA:73:ILE:HB	2.05	0.56
22:B0:2099:U:H2'	22:B0:2100:G:H8	1.70	0.56
22:B0:2335:A:O2'	22:B0:2336:A:C8	2.59	0.56
22:B0:2895:C:N4	33:BH:13:ARG:NH1	2.53	0.56
22:B0:2897:U:C5	33:BH:14:ASP:HB2	2.41	0.56
24:B2:25:ALA:HB2	24:B2:223:VAL:HG11	1.87	0.56
27:BB:14:ILE:HG13	27:BB:188:LEU:HD13	1.86	0.56
28:BC:47:LYS:NZ	28:BC:47:LYS:HB3	2.21	0.56
28:BC:104:ALA:HA	28:BC:107:SER:OG	2.06	0.56
32:BG:109:ALA:C	32:BG:111:THR:H	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:99:LYS:O	48:BZ:52:LYS:HB2	2.05	0.56
39:BN:23:ASP:C	39:BN:49:ILE:HG12	2.31	0.56
42:BR:8:LEU:HD13	46:BW:29:ARG:HB2	1.87	0.56
1:AA:820:U:OP1	1:AA:821:G:OP2	2.23	0.56
1:AA:927:G:H2'	1:AA:928:G:H8	1.70	0.56
1:AA:1099:G:N3	1:AA:1100:C:H1'	2.21	0.56
1:AA:1278:G:H5''	1:AA:1279:G:C5'	2.35	0.56
2:AW:74:C:H2'	2:AW:75:C:O4'	2.06	0.56
3:AB:44:LYS:C	3:AB:47:PRO:HD2	2.30	0.56
3:AB:170:ILE:N	3:AB:170:ILE:HD12	2.18	0.56
5:AD:146:GLU:CD	5:AD:146:GLU:H	2.14	0.56
8:AG:154:ARG:HD3	8:AG:154:ARG:H	1.69	0.56
22:B0:94:A:H2'	22:B0:95:A:O4'	2.06	0.56
22:B0:239:C:H2'	22:B0:240:C:C6	2.40	0.56
22:B0:588:U:H5'	28:BC:43:THR:CB	2.36	0.56
22:B0:961:C:C2	22:B0:2497:A:O2'	2.57	0.56
22:B0:971:G:C2'	22:B0:972:A:H5'	2.36	0.56
22:B0:978:G:H2'	22:B0:979:A:C8	2.41	0.56
22:B0:1488:G:O2'	26:BA:201:LEU:HG	2.05	0.56
22:B0:2263:C:N4	22:B0:2277:G:N1	2.53	0.56
22:B0:2696:U:H2'	22:B0:2697:G:C8	2.41	0.56
24:B2:193:VAL:HA	24:B2:196:LYS:HE2	1.88	0.56
25:B5:27:GLU:HA	25:B5:35:ALA:HB2	1.87	0.56
25:B5:57:ILE:O	25:B5:117:VAL:HG13	2.05	0.56
26:BA:241:LYS:C	26:BA:243:PRO:HD2	2.30	0.56
27:BB:13:ARG:HD3	39:BN:10:GLU:CG	2.34	0.56
30:BE:88:LEU:H	30:BE:88:LEU:CD1	2.17	0.56
37:BL:53:THR:O	37:BL:54:LEU:HB2	2.06	0.56
39:BN:65:ASN:HD22	39:BN:66:GLY:N	2.04	0.56
42:BR:20:ALA:O	42:BR:24:MET:HE2	2.05	0.56
44:BT:29:ILE:C	44:BT:30:ILE:HD12	2.31	0.56
45:BU:67:LYS:N	45:BU:67:LYS:HD3	2.21	0.56
47:BX:31:ILE:HD13	47:BX:31:ILE:N	2.20	0.56
1:AA:119:A:O2'	1:AA:120:A:OP2	2.24	0.56
1:AA:120:A:H2'	1:AA:122:G:N7	2.20	0.56
1:AA:562:U:H5''	1:AA:563:A:O5'	2.06	0.56
1:AA:580:C:H2'	1:AA:581:G:C8	2.41	0.56
1:AA:954:G:H1	1:AA:1226:C:H42	1.53	0.56
3:AB:44:LYS:O	3:AB:48:MET:HG2	2.05	0.56
4:AC:119:ILE:HD11	4:AC:136:ALA:HB2	1.88	0.56
10:AI:50:PRO:CB	10:AI:83:THR:HG22	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:1:ALA:HA	14:AM:2:ARG:NH2	2.20	0.56
22:B0:800:A:O2'	22:B0:801:G:C5'	2.52	0.56
22:B0:960:A:N6	22:B0:2250:G:HO2'	2.02	0.56
22:B0:982:C:O2'	22:B0:983:A:OP1	2.16	0.56
22:B0:1128:G:H1'	22:B0:2517:C:C5'	2.36	0.56
22:B0:1494:A:N3	22:B0:1494:A:C2'	2.69	0.56
22:B0:2156:G:C8	22:B0:2157:G:H3'	2.40	0.56
22:B0:2289:G:H22	22:B0:2344:U:H1'	1.69	0.56
22:B0:2811:G:H2'	22:B0:2812:G:H8	1.70	0.56
29:BD:7:TYR:HD1	29:BD:11:VAL:HG13	1.70	0.56
33:BH:76:HIS:O	33:BH:77:HIS:HB3	2.05	0.56
33:BH:109:LEU:N	33:BH:109:LEU:HD22	2.21	0.56
36:BK:53:MET:HA	36:BK:116:ALA:HB1	1.88	0.56
39:BN:18:SER:O	39:BN:19:PHE:C	2.49	0.56
40:BO:65:ASN:HA	40:BO:74:SER:HB2	1.87	0.56
42:BR:74:ILE:HD12	42:BR:76:ARG:HH22	1.69	0.56
44:BT:46:LYS:O	44:BT:50:MET:HG3	2.06	0.56
1:AA:979:C:H5''	20:AS:5:LYS:HG3	1.85	0.56
1:AA:1384:C:H2'	1:AA:1385:G:O4'	2.06	0.56
2:AW:18:G:C4'	2:AW:19:G:OP1	2.52	0.56
3:AB:53:LEU:HD12	3:AB:56:LEU:HD23	1.88	0.56
13:AL:88:ASP:O	13:AL:90:PRO:HD3	2.06	0.56
21:AT:54:GLN:HG3	21:AT:75:LYS:HE3	1.87	0.56
22:B0:307:G:H21	22:B0:330:A:H62	1.53	0.56
22:B0:921:C:H4'	22:B0:2269:G:C2	2.40	0.56
22:B0:1142:A:H5''	22:B0:1143:A:OP1	2.06	0.56
22:B0:1426:G:H1'	22:B0:1572:A:H61	1.69	0.56
22:B0:1426:G:C3'	22:B0:1428:C:H42	2.11	0.56
22:B0:1580:A:OP2	26:BA:68:ARG:CD	2.53	0.56
22:B0:1581:A:P	26:BA:73:ILE:HB	2.46	0.56
22:B0:2565:A:H2'	22:B0:2566:A:O4'	2.06	0.56
22:B0:2568:U:H2'	22:B0:2569:G:H8	1.71	0.56
24:B2:202:GLN:H	24:B2:202:GLN:HE21	1.48	0.56
26:BA:80:LEU:HD22	26:BA:90:ILE:O	2.06	0.56
28:BC:76:PRO:HG3	28:BC:82:GLY:O	2.05	0.56
29:BD:135:ILE:C	29:BD:136:ILE:HD12	2.31	0.56
1:AA:252:U:H2'	1:AA:253:A:H8	1.71	0.56
1:AA:446:G:H2'	1:AA:447:G:O4'	2.06	0.56
1:AA:1117:A:H61	1:AA:1156:G:H22	1.54	0.56
4:AC:150:VAL:HG22	4:AC:199:VAL:HG22	1.86	0.56
10:AI:57:VAL:HG23	10:AI:58:GLU:N	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:60:G:O6	22:B0:63:A:H2'	2.05	0.56
22:B0:301:G:H4'	22:B0:302:C:C5'	2.36	0.56
22:B0:490:C:N3	22:B0:492:A:N6	2.46	0.56
22:B0:555:U:H2'	22:B0:556:A:C8	2.41	0.56
22:B0:588:U:C5	28:BC:82:GLY:HA2	2.41	0.56
22:B0:1002:G:H1	22:B0:1153:C:N4	2.04	0.56
22:B0:1427:A:H62	26:BA:58:LYS:CD	2.19	0.56
22:B0:1844:C:H2'	22:B0:1845:G:C8	2.41	0.56
22:B0:2381:A:C2'	22:B0:2382:G:H5'	2.35	0.56
27:BB:106:LYS:HD2	27:BB:106:LYS:N	2.19	0.56
29:BD:129:MET:HG3	29:BD:153:ILE:H	1.71	0.56
33:BH:36:LEU:HD22	33:BH:36:LEU:N	2.18	0.56
33:BH:39:LYS:NZ	33:BH:40:HIS:HB2	2.20	0.56
33:BH:55:ILE:HA	33:BH:123:LYS:O	2.06	0.56
35:BJ:36:LYS:O	35:BJ:37:GLY:C	2.49	0.56
35:BJ:101:ILE:HD13	35:BJ:101:ILE:C	2.30	0.56
40:BO:10:ARG:NE	40:BO:10:ARG:N	2.54	0.56
41:BQ:10:ALA:HB1	41:BQ:11:ARG:NH2	2.21	0.56
42:BR:47:VAL:O	42:BR:48:GLN:HB3	2.06	0.56
1:AA:194:C:H2'	1:AA:195:A:H5''	1.86	0.56
1:AA:346:G:H3'	1:AA:346:G:N3	2.21	0.56
1:AA:449:G:O2'	1:AA:450:G:H3'	2.05	0.56
1:AA:889:A:C2	1:AA:907:A:H5''	2.41	0.56
1:AA:1385:G:C2	10:AI:128:LYS:HG3	2.41	0.56
5:AD:18:LEU:HD22	5:AD:63:ILE:HG12	1.88	0.56
9:AH:6:ILE:HG22	9:AH:76:ARG:HD2	1.88	0.56
22:B0:459:U:O2'	22:B0:460:A:H5'	2.05	0.56
22:B0:661:A:H1'	28:BC:96:VAL:O	2.05	0.56
22:B0:704:G:H1'	22:B0:727:A:N6	2.21	0.56
22:B0:1080:A:O2'	22:B0:1081:U:H5'	2.06	0.56
22:B0:1110:G:H5''	22:B0:1111:A:OP1	2.05	0.56
22:B0:1197:G:H21	40:BO:8:ILE:HD13	1.70	0.56
22:B0:1492:G:C2'	26:BA:152:GLN:HE21	2.18	0.56
22:B0:1869:G:H1'	22:B0:1872:A:N6	2.21	0.56
22:B0:2504:U:H1'	22:B0:2572:A:C2	2.33	0.56
22:B0:2555:U:H2'	22:B0:2556:C:C6	2.41	0.56
22:B0:2680:U:H2'	22:B0:2681:C:C5'	2.27	0.56
26:BA:163:ILE:HA	26:BA:173:LEU:CG	2.27	0.56
28:BC:89:PRO:O	28:BC:90:GLN:CG	2.54	0.56
29:BD:47:LYS:C	29:BD:49:LEU:H	2.13	0.56
35:BJ:33:ARG:NE	35:BJ:33:ARG:N	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:29:VAL:HG12	39:BN:45:VAL:HG12	1.87	0.56
42:BR:55:VAL:HA	42:BR:56:GLU:N	2.20	0.56
45:BU:35:ILE:HG23	45:BU:36:ILE:N	2.21	0.56
45:BU:43:LYS:H	45:BU:43:LYS:HE2	1.71	0.56
45:BU:58:LEU:HB2	45:BU:81:ILE:HA	1.88	0.56
1:AA:38:G:O2'	1:AA:39:G:H5''	2.06	0.55
1:AA:176:C:H2'	1:AA:177:G:C8	2.36	0.55
1:AA:197:A:N6	1:AA:221:C:C4'	2.70	0.55
1:AA:718:A:O4'	12:AK:117:HIS:CA	2.43	0.55
1:AA:721:G:H4'	1:AA:722:G:H5''	1.88	0.55
1:AA:940:C:H2'	1:AA:941:G:C8	2.41	0.55
2:AU:18:G:C4'	2:AU:19:G:OP1	2.51	0.55
10:AI:112:ARG:C	10:AI:112:ARG:HD3	2.31	0.55
14:AM:2:ARG:N	14:AM:2:ARG:NE	2.53	0.55
22:B0:99:U:H4'	22:B0:100:U:OP2	2.06	0.55
22:B0:320:A:H4'	22:B0:322:A:N7	2.20	0.55
22:B0:493:G:H21	41:BQ:7:HIS:CA	2.19	0.55
22:B0:669:G:H3'	22:B0:670:A:C2	2.42	0.55
22:B0:784:G:O2'	22:B0:785:G:H5''	2.06	0.55
22:B0:1339:G:OP1	42:BR:19:LYS:HE2	2.06	0.55
22:B0:2379:G:H2'	22:B0:2380:C:C6	2.42	0.55
22:B0:2855:C:C2'	22:B0:2856:A:H5''	2.35	0.55
24:B2:104:LYS:HZ1	24:B2:126:LEU:CD2	2.16	0.55
27:BB:28:GLU:HG2	27:BB:186:LEU:HD22	1.88	0.55
28:BC:154:ASP:CG	28:BC:155:GLU:H	2.14	0.55
33:BH:33:ALA:CB	33:BH:105:VAL:HG23	2.31	0.55
34:BI:116:ILE:HD13	34:BI:116:ILE:C	2.31	0.55
39:BN:26:GLU:N	39:BN:88:ARG:HG3	2.17	0.55
39:BN:34:GLY:C	39:BN:36:LYS:H	2.15	0.55
40:BO:16:ILE:HD12	40:BO:19:GLN:NE2	2.22	0.55
40:BO:33:VAL:HA	40:BO:36:GLN:OE1	2.06	0.55
41:BQ:29:VAL:HG21	41:BQ:55:ILE:HG21	1.88	0.55
41:BQ:53:SER:O	41:BQ:56:ALA:HB3	2.06	0.55
1:AA:1004:A:H2'	1:AA:1005:A:H5'	1.87	0.55
1:AA:1015:G:O2'	1:AA:1218:C:H4'	2.05	0.55
1:AA:1100:C:H2'	1:AA:1101:A:OP1	2.06	0.55
2:AW:19:G:H5'	2:AW:60:C:H42	1.72	0.55
3:AB:219:THR:HA	3:AB:222:GLU:HG2	1.87	0.55
5:AD:148:ALA:O	5:AD:151:GLN:HG2	2.06	0.55
5:AD:197:HIS:O	5:AD:201:GLU:HG3	2.06	0.55
8:AG:24:LYS:HA	8:AG:27:ASN:HD22	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:25:PHE:CD1	8:AG:28:ILE:HD11	2.40	0.55
8:AG:29:LEU:C	8:AG:31:VAL:H	2.13	0.55
10:AI:70:GLY:O	10:AI:74:GLN:HG3	2.06	0.55
11:AJ:37:ARG:NH1	11:AJ:37:ARG:HB3	2.21	0.55
22:B0:669:G:H2'	28:BC:66:GLY:HA2	1.89	0.55
22:B0:990:A:O2'	22:B0:991:C:OP1	2.22	0.55
22:B0:1181:U:H2'	22:B0:1182:G:H8	1.71	0.55
22:B0:1204:A:N6	22:B0:1241:A:H61	2.04	0.55
22:B0:1491:A:O5'	26:BA:174:ARG:O	2.25	0.55
22:B0:1579:A:H8	26:BA:65:ASP:HB3	1.71	0.55
22:B0:2292:U:H2'	22:B0:2293:G:C8	2.40	0.55
22:B0:2336:A:O2'	22:B0:2337:G:OP1	2.21	0.55
22:B0:2690:U:H1'	22:B0:2873:A:N6	2.21	0.55
24:B2:208:ILE:O	24:B2:208:ILE:HG12	2.06	0.55
27:BB:40:LEU:HB2	27:BB:74:GLU:HB3	1.88	0.55
28:BC:90:GLN:HB3	35:BJ:27:LEU:O	2.06	0.55
34:BI:22:ILE:HG12	34:BI:41:ILE:HA	1.88	0.55
44:BT:68:LYS:O	44:BT:68:LYS:HD2	2.07	0.55
1:AA:571:U:H4'	1:AA:819:A:N6	2.22	0.55
3:AB:72:LYS:HG2	3:AB:74:ALA:H	1.71	0.55
5:AD:58:GLN:O	5:AD:62:ARG:HG3	2.06	0.55
7:AF:42:TRP:HB2	7:AF:59:TYR:HB2	1.86	0.55
12:AK:123:PRO:HD2	12:AK:126:ARG:HD2	1.89	0.55
17:AP:20:VAL:HG13	17:AP:34:GLU:O	2.06	0.55
20:AS:35:ARG:HD3	20:AS:71:GLY:HA3	1.88	0.55
22:B0:516:C:H4'	22:B0:1262:A:C4'	2.37	0.55
22:B0:961:C:OP2	22:B0:2496:C:H3'	2.06	0.55
22:B0:1489:U:C6	26:BA:200:MET:SD	2.99	0.55
22:B0:1817:G:O2'	22:B0:1818:U:H5'	2.06	0.55
22:B0:2679:A:H2'	22:B0:2680:U:O4'	2.06	0.55
25:B3:69:ILE:HG22	25:B3:73:ARG:HD2	1.88	0.55
26:BA:101:ARG:HH11	26:BA:101:ARG:CB	2.19	0.55
26:BA:138:SER:O	26:BA:140:VAL:HG13	2.06	0.55
27:BB:131:ASP:O	27:BB:134:HIS:HB2	2.06	0.55
29:BD:94:ARG:NE	29:BD:94:ARG:HA	2.21	0.55
30:BE:25:ILE:HD13	30:BE:25:ILE:C	2.31	0.55
32:BG:78:LEU:O	32:BG:82:ALA:HB2	2.05	0.55
34:BI:21:CYS:HA	34:BI:41:ILE:HG22	1.89	0.55
37:BL:21:PHE:O	37:BL:25:ALA:HB2	2.06	0.55
37:BL:64:ARG:HA	37:BL:64:ARG:NE	2.21	0.55
1:AA:344:A:H5''	1:AA:345:C:C5	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:404:G:H5'	1:AA:546:A:O3'	2.05	0.55
1:AA:1279:G:H1'	1:AA:1282:C:N4	2.21	0.55
5:AD:148:ALA:HB1	5:AD:151:GLN:NE2	2.16	0.55
6:AE:92:ARG:HD2	6:AE:127:TYR:HB2	1.89	0.55
7:AF:47:LEU:HD21	7:AF:57:ALA:HB3	1.87	0.55
9:AH:79:ARG:HB3	9:AH:80:PRO:HD2	1.88	0.55
11:AJ:6:ILE:HD12	11:AJ:6:ILE:N	2.21	0.55
12:AK:119:GLY:C	12:AK:121:ARG:H	2.11	0.55
19:AR:58:ILE:O	19:AR:62:ARG:HG3	2.06	0.55
21:AT:8:LYS:HG3	21:AT:12:GLN:NE2	2.18	0.55
22:B0:238:C:H2'	22:B0:239:C:C6	2.42	0.55
22:B0:859:G:O4'	22:B0:2268:A:H1'	2.06	0.55
22:B0:1131:G:H1'	33:BH:81:ILE:CD1	2.31	0.55
22:B0:1217:U:H2'	22:B0:1218:G:C8	2.42	0.55
22:B0:2013:A:OP1	41:BQ:96:ILE:HG23	2.07	0.55
22:B0:2378:A:H2'	22:B0:2379:G:H5'	1.87	0.55
22:B0:2498:C:O2	22:B0:2498:C:C2'	2.48	0.55
22:B0:2899:A:N1	33:BH:137:PRO:HD2	2.22	0.55
25:B5:14:MET:HB3	25:B5:18:ASP:HB2	1.89	0.55
27:BB:121:THR:HG21	27:BB:143:PRO:HD3	1.89	0.55
28:BC:178:VAL:HG23	35:BJ:18:ARG:NH2	2.21	0.55
43:BS:4:ILE:H	43:BS:4:ILE:CD1	2.16	0.55
1:AA:517:G:H4'	1:AA:519:C:N1	2.20	0.55
1:AA:1182:G:O2'	1:AA:1183:U:H5'	2.05	0.55
1:AA:1405:G:H21	1:AA:1518:A:H1'	1.71	0.55
2:AV:18:G:H1	2:AV:55:U:H6	1.54	0.55
3:AB:26:MET:SD	3:AB:192:PRO:HD3	2.47	0.55
3:AB:170:ILE:HD12	3:AB:170:ILE:H	1.71	0.55
5:AD:166:LYS:HD3	5:AD:166:LYS:N	2.21	0.55
6:AE:80:LEU:HG	6:AE:146:MET:HE1	1.88	0.55
12:AK:53:GLY:HA2	12:AK:56:LYS:HD3	1.88	0.55
22:B0:493:G:O5'	41:BQ:9:HIS:O	2.23	0.55
22:B0:534:U:H3	22:B0:559:G:N2	1.96	0.55
22:B0:787:C:H5''	22:B0:788:A:H5'	1.89	0.55
22:B0:801:G:H22	28:BC:72:SER:HB3	1.70	0.55
22:B0:962:G:O4'	22:B0:2497:A:H5'	2.07	0.55
22:B0:1129:A:N3	22:B0:2516:A:O2'	2.40	0.55
22:B0:1198:U:H2'	22:B0:1199:U:C6	2.42	0.55
22:B0:1553:A:H2'	22:B0:1555:G:H5'	1.88	0.55
22:B0:2110:G:N7	22:B0:2182:U:H1'	2.22	0.55
22:B0:2232:C:H2'	22:B0:2233:U:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:5:LYS:O	24:B2:8:ARG:HB3	2.06	0.55
25:B5:107:LYS:O	25:B5:111:GLU:HG3	2.07	0.55
26:BA:143:VAL:O	26:BA:151:GLY:HA2	2.07	0.55
28:BC:4:VAL:CG2	28:BC:13:THR:HA	2.35	0.55
28:BC:74:LYS:C	28:BC:82:GLY:H	2.14	0.55
28:BC:111:GLU:O	28:BC:117:ARG:HG3	2.06	0.55
28:BC:152:GLU:OE2	28:BC:186:VAL:HG21	2.06	0.55
30:BE:16:VAL:HG12	30:BE:25:ILE:HG12	1.88	0.55
30:BE:131:VAL:C	30:BE:132:LEU:HD12	2.31	0.55
33:BH:14:ASP:O	33:BH:15:TRP:HB3	2.07	0.55
34:BI:77:ILE:HD12	39:BN:72:VAL:CG1	2.37	0.55
36:BK:5:LYS:HA	36:BK:71:LYS:HE2	1.88	0.55
37:BL:99:LYS:CA	37:BL:111:ALA:HB2	2.32	0.55
39:BN:96:LEU:HD13	39:BN:96:LEU:N	2.15	0.55
41:BQ:69:LEU:O	41:BQ:70:LYS:HD3	2.06	0.55
42:BR:95:PHE:O	42:BR:96:VAL:C	2.49	0.55
45:BU:29:SER:OG	45:BU:61:LYS:HG3	2.07	0.55
1:AA:109:A:H5'	1:AA:110:C:OP2	2.07	0.55
1:AA:840:C:H5''	1:AA:841:U:OP1	2.07	0.55
1:AA:1152:A:H2'	1:AA:1153:G:C8	2.41	0.55
1:AA:1276:G:H2'	1:AA:1277:C:C6	2.42	0.55
2:AU:75:C:P	22:B0:2556:C:H3'	2.47	0.55
13:AL:52:CYS:SG	13:AL:66:ILE:HD11	2.45	0.55
22:B0:610:C:C2	22:B0:611:C:N4	2.74	0.55
22:B0:666:A:P	35:BJ:48:ARG:HD3	2.46	0.55
22:B0:807:U:C5'	22:B0:2445:G:H4'	2.36	0.55
22:B0:961:C:C5	22:B0:2497:A:N3	2.75	0.55
22:B0:1010:A:H5'	40:BO:62:ALA:CB	2.30	0.55
22:B0:1310:G:C2'	22:B0:1311:G:H5'	2.37	0.55
22:B0:1579:A:H5'	22:B0:1580:A:OP2	2.06	0.55
22:B0:2195:U:H2'	22:B0:2196:C:C6	2.42	0.55
22:B0:2228:G:H2'	22:B0:2229:U:O4'	2.06	0.55
22:B0:2898:G:OP2	33:BH:15:TRP:CZ3	2.59	0.55
26:BA:241:LYS:HE2	26:BA:255:LYS:NZ	2.22	0.55
30:BE:101:VAL:HG22	30:BE:113:ASP:HB3	1.88	0.55
31:BF:123:ARG:NH1	31:BF:123:ARG:HB3	2.22	0.55
37:BL:53:THR:C	37:BL:55:ALA:H	2.15	0.55
41:BQ:74:ILE:HD13	41:BQ:74:ILE:H	1.70	0.55
42:BR:66:LYS:HG3	42:BR:67:VAL:H	1.71	0.55
1:AA:722:G:H1	1:AA:733:G:H1	1.54	0.55
1:AA:1133:G:H2'	1:AA:1134:G:H8	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1447:A:H2	1:AA:1459:G:H22	1.48	0.55
2:AV:18:G:C4'	2:AV:19:G:OP1	2.49	0.55
5:AD:145:ARG:O	5:AD:149:LYS:HG2	2.07	0.55
18:AQ:48:GLU:HG3	18:AQ:49:ASN:ND2	2.22	0.55
20:AS:20:LYS:O	20:AS:23:GLU:HG3	2.07	0.55
22:B0:433:C:H2'	22:B0:434:U:O4'	2.07	0.55
22:B0:627:A:O2'	22:B0:628:G:O4'	2.23	0.55
22:B0:675:A:H62	28:BC:61:ARG:CZ	2.20	0.55
22:B0:1406:U:H2'	22:B0:1407:G:C8	2.42	0.55
22:B0:1578:U:OP1	26:BA:63:ILE:HA	2.06	0.55
22:B0:1590:C:H2'	22:B0:1591:A:C8	2.42	0.55
22:B0:2266:A:H5'	22:B0:2267:A:C8	2.41	0.55
23:B9:58:A:H3'	23:B9:58:A:N3	2.22	0.55
24:B2:77:PHE:HZ	24:B2:103:ILE:HD11	1.71	0.55
25:B3:107:LYS:O	25:B3:111:GLU:HG3	2.07	0.55
26:BA:115:ILE:HD13	26:BA:115:ILE:N	2.20	0.55
39:BN:9:GLN:H	39:BN:9:GLN:HE21	1.52	0.55
39:BN:23:ASP:OD1	39:BN:91:VAL:HG13	2.06	0.55
44:BT:30:ILE:N	44:BT:30:ILE:HD12	2.22	0.55
1:AA:38:G:C8	1:AA:547:A:N6	2.75	0.55
1:AA:752:G:O2'	1:AA:754:C:H5	1.90	0.55
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.72	0.55
1:AA:1298:U:H4'	1:AA:1299:A:C2	2.42	0.55
1:AA:1385:G:H2'	10:AI:128:LYS:HD2	1.88	0.55
7:AF:14:GLN:HB3	7:AF:18:VAL:HG22	1.87	0.55
22:B0:554:U:H2'	22:B0:555:U:C6	2.42	0.55
22:B0:1008:A:H5''	22:B0:1009:A:OP1	2.07	0.55
22:B0:1492:G:C1'	26:BA:152:GLN:HE21	2.19	0.55
22:B0:1606:C:H4'	22:B0:1607:C:C5	2.42	0.55
22:B0:2096:C:H2'	22:B0:2097:A:C8	2.40	0.55
22:B0:2137:U:O2	22:B0:2137:U:C2'	2.55	0.55
22:B0:2289:G:N2	22:B0:2344:U:H1'	2.22	0.55
22:B0:2508:G:N1	22:B0:2582:G:N1	2.54	0.55
22:B0:2677:G:N3	27:BB:125:TRP:CE3	2.72	0.55
24:B2:8:ARG:HA	24:B2:11:ARG:HD3	1.89	0.55
25:B5:90:ALA:N	25:B5:91:PRO:HD3	2.22	0.55
26:BA:101:ARG:NH1	26:BA:101:ARG:CB	2.70	0.55
26:BA:167:ASP:HB3	26:BA:170:TYR:O	2.07	0.55
28:BC:98:LYS:HB3	28:BC:99:LYS:HD2	1.88	0.55
28:BC:109:LEU:HD21	28:BC:196:VAL:HG12	1.88	0.55
29:BD:140:ILE:HD11	29:BD:145:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:162:ARG:HA	30:BE:162:ARG:HE	1.71	0.55
35:BJ:54:GLN:HG2	35:BJ:55:MET:H	1.71	0.55
35:BJ:125:LEU:HA	35:BJ:143:GLU:OE2	2.07	0.55
36:BK:112:LEU:C	36:BK:112:LEU:HD22	2.31	0.55
40:BO:30:VAL:HG12	40:BO:31:TYR:N	2.21	0.55
42:BR:11:LEU:HB2	42:BR:32:LEU:HD22	1.89	0.55
1:AA:292:G:H1'	1:AA:608:A:N6	2.20	0.55
1:AA:962:C:H2'	1:AA:963:G:C8	2.42	0.55
1:AA:1085:U:O2'	1:AA:1086:U:OP1	2.22	0.55
1:AA:1344:C:O3'	10:AI:119:LYS:HE3	2.06	0.55
1:AA:1498:U:O2'	1:AA:1499:A:C8	2.58	0.55
2:AU:75:C:OP1	22:B0:2556:C:H3'	2.07	0.55
2:AW:3:G:H2'	2:AW:4:G:H8	1.71	0.55
3:AB:65:LYS:HB2	3:AB:89:PHE:HE1	1.72	0.55
12:AK:120:CYS:O	12:AK:121:ARG:C	2.49	0.55
22:B0:856:G:H2'	22:B0:857:G:C8	2.42	0.55
22:B0:898:C:H2'	22:B0:899:A:C8	2.41	0.55
22:B0:1060:U:H1'	22:B0:1062:G:C5'	2.34	0.55
22:B0:1249:U:H2'	22:B0:1250:G:H8	1.71	0.55
22:B0:1368:G:H8	22:B0:1368:G:OP2	1.89	0.55
22:B0:2192:U:H2'	22:B0:2193:G:C8	2.39	0.55
25:B5:51:LYS:N	25:B5:51:LYS:HD2	2.22	0.55
28:BC:35:TYR:CD1	35:BJ:19:LEU:HB2	2.42	0.55
29:BD:120:SER:HB3	29:BD:128:SER:HB2	1.89	0.55
32:BG:122:GLU:O	32:BG:126:ARG:HG2	2.07	0.55
35:BJ:106:GLU:HG2	35:BJ:107:PHE:CD1	2.42	0.55
39:BN:25:VAL:CG1	39:BN:88:ARG:HE	2.20	0.55
40:BO:70:GLN:C	40:BO:71:ASN:HD22	2.15	0.55
41:BQ:10:ALA:CB	41:BQ:11:ARG:HH21	2.19	0.55
41:BQ:18:ARG:CG	41:BQ:19:LEU:N	2.69	0.55
42:BR:67:VAL:HG13	42:BR:76:ARG:N	2.21	0.55
42:BR:75:GLY:O	42:BR:76:ARG:C	2.50	0.55
49:B1:29:LYS:HD2	49:B1:29:LYS:N	2.21	0.55
1:AA:430:A:O2'	1:AA:431:A:H3'	2.07	0.55
1:AA:1148:U:H5''	10:AI:10:ARG:HE	1.71	0.55
2:AW:52:U:H2'	2:AW:53:G:H8	1.72	0.55
3:AB:33:ALA:HA	3:AB:38:HIS:HA	1.89	0.55
10:AI:78:ILE:O	10:AI:82:ILE:HG13	2.06	0.55
12:AK:122:PRO:O	12:AK:127:ARG:HG3	2.07	0.55
14:AM:44:ILE:HD12	14:AM:45:SER:N	2.22	0.55
19:AR:27:THR:HA	19:AR:30:ASN:HD22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:500:G:C2'	22:B0:501:A:H5''	2.37	0.55
22:B0:802:A:N6	28:BC:61:ARG:HH11	2.04	0.55
22:B0:958:U:OP1	36:BK:82:MET:C	2.50	0.55
22:B0:1229:C:H2'	22:B0:1230:A:H8	1.70	0.55
22:B0:1426:G:H2'	22:B0:1427:A:H5''	1.89	0.55
22:B0:1655:A:C2	22:B0:2049:G:H5''	2.41	0.55
22:B0:2575:C:H2'	22:B0:2578:G:O6	2.07	0.55
25:B3:59:LYS:HD2	25:B3:116:GLU:HG2	1.88	0.55
26:BA:48:ILE:O	26:BA:48:ILE:HD12	2.07	0.55
26:BA:67:LYS:NZ	26:BA:188:ARG:NH2	2.55	0.55
26:BA:175:LEU:CD1	26:BA:176:ARG:N	2.67	0.55
35:BJ:41:ARG:HA	35:BJ:41:ARG:NE	2.21	0.55
37:BL:48:VAL:O	37:BL:48:VAL:HG13	2.05	0.55
39:BN:2:ASN:O	39:BN:6:GLN:HB2	2.07	0.55
43:BS:33:VAL:O	43:BS:64:ILE:HB	2.07	0.55
47:BX:6:ILE:O	47:BX:34:THR:HA	2.07	0.55
1:AA:449:G:HO2'	1:AA:450:G:P	2.27	0.54
1:AA:872:A:H5''	1:AA:873:A:OP1	2.08	0.54
1:AA:1360:A:H61	20:AS:6:LYS:HE3	1.71	0.54
2:AU:19:G:H4'	2:AU:20:G:OP1	2.07	0.54
4:AC:100:ILE:HD13	4:AC:100:ILE:C	2.32	0.54
16:AO:81:ILE:N	16:AO:81:ILE:HD12	2.22	0.54
17:AP:21:VAL:O	17:AP:33:ILE:HB	2.06	0.54
20:AS:51:HIS:CD2	20:AS:53:GLY:H	2.24	0.54
22:B0:586:A:H4'	28:BC:78:TRP:CA	2.33	0.54
22:B0:828:U:H4'	22:B0:831:G:C6	2.42	0.54
22:B0:852:U:O5'	22:B0:852:U:H6	1.90	0.54
22:B0:1139:G:O2'	22:B0:1140:C:H5'	2.06	0.54
22:B0:1299:G:N2	22:B0:1639:C:H41	2.04	0.54
22:B0:1487:G:N2	26:BA:199:HIS:HB2	2.23	0.54
22:B0:1500:A:H61	26:BA:155:ARG:C	2.14	0.54
22:B0:1939:U:H5''	22:B0:1940:U:OP2	2.06	0.54
22:B0:2108:A:N3	22:B0:2109:U:H1'	2.21	0.54
22:B0:2231:U:H2'	22:B0:2232:C:C6	2.42	0.54
22:B0:2647:U:H2'	22:B0:2648:G:H8	1.72	0.54
28:BC:3:LEU:HD13	28:BC:18:THR:HB	1.89	0.54
28:BC:49:ARG:HG3	28:BC:50:ALA:N	2.13	0.54
29:BD:11:VAL:HA	29:BD:14:LYS:HE2	1.89	0.54
30:BE:32:LEU:HD23	30:BE:74:MET:HG2	1.88	0.54
32:BG:85:ILE:HD13	32:BG:85:ILE:C	2.32	0.54
35:BJ:39:LYS:HD2	35:BJ:41:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BJ:100:ILE:HG22	35:BJ:100:ILE:O	2.07	0.54
39:BN:7:LEU:HD22	39:BN:7:LEU:N	2.22	0.54
39:BN:65:ASN:HD22	39:BN:66:GLY:H	1.55	0.54
45:BU:65:LYS:HB2	45:BU:65:LYS:NZ	2.22	0.54
49:B1:6:GLU:HB3	49:B1:26:LYS:HB2	1.90	0.54
1:AA:247:G:H2'	1:AA:248:C:C6	2.41	0.54
1:AA:1065:U:H1'	1:AA:1066:C:C5	2.41	0.54
1:AA:1115:U:H3	1:AA:1185:G:H22	1.55	0.54
1:AA:1145:A:O2'	1:AA:1146:A:H8	1.91	0.54
1:AA:1318:A:H5''	20:AS:41:PRO:CD	2.36	0.54
2:AU:56:C:H2'	2:AU:57:G:C8	2.43	0.54
3:AB:80:LYS:O	3:AB:84:LEU:HG	2.07	0.54
6:AE:143:LEU:HA	6:AE:146:MET:SD	2.47	0.54
13:AL:110:LYS:HA	13:AL:113:ARG:HH21	1.71	0.54
16:AO:39:GLN:HA	16:AO:42:PHE:HD2	1.72	0.54
18:AQ:6:THR:C	18:AQ:7:LEU:HD12	2.32	0.54
21:AT:68:LYS:HD3	21:AT:68:LYS:N	2.16	0.54
22:B0:811:U:O2'	22:B0:812:C:OP1	2.21	0.54
22:B0:839:U:H2'	22:B0:840:C:C6	2.42	0.54
22:B0:1732:C:OP2	22:B0:1741:C:H5''	2.07	0.54
22:B0:2122:U:O2	22:B0:2122:U:H2'	2.07	0.54
22:B0:2848:G:H1'	22:B0:2868:A:N6	2.22	0.54
25:B3:50:GLU:HB3	25:B5:15:SER:CA	2.38	0.54
27:BB:13:ARG:HH11	39:BN:10:GLU:HB3	1.72	0.54
28:BC:96:VAL:HG11	35:BJ:23:ILE:HD11	1.89	0.54
28:BC:155:GLU:HG3	28:BC:156:ASN:H	1.71	0.54
29:BD:43:ILE:H	29:BD:43:ILE:CD1	2.20	0.54
32:BG:33:ASN:ND2	32:BG:34:ILE:N	2.55	0.54
33:BH:69:ARG:NH1	33:BH:69:ARG:HB3	2.22	0.54
33:BH:85:LYS:HD3	33:BH:85:LYS:N	2.22	0.54
43:BS:6:ARG:HD2	43:BS:6:ARG:O	2.07	0.54
1:AA:392:C:H2'	1:AA:393:A:H8	1.72	0.54
1:AA:790:A:H2'	1:AA:791:G:H8	1.71	0.54
2:AU:52:U:H2'	2:AU:53:G:H8	1.73	0.54
4:AC:35:ASP:O	4:AC:39:ARG:HG3	2.08	0.54
7:AF:39:LEU:C	7:AF:39:LEU:HD13	2.33	0.54
8:AG:147:ASN:C	8:AG:149:ALA:H	2.15	0.54
9:AH:111:THR:HG23	9:AH:114:ALA:H	1.72	0.54
12:AK:122:PRO:HG2	12:AK:127:ARG:CG	2.37	0.54
22:B0:265:A:O2'	22:B0:266:G:O5'	2.23	0.54
22:B0:661:A:OP2	35:BJ:27:LEU:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1042:G:H2'	22:B0:1043:C:C6	2.42	0.54
22:B0:1488:G:N3	26:BA:200:MET:HE3	2.21	0.54
22:B0:1498:C:H6	22:B0:1498:C:O5'	1.89	0.54
22:B0:1921:G:H2'	22:B0:1922:G:C8	2.42	0.54
22:B0:2013:A:OP1	41:BQ:96:ILE:HD12	2.07	0.54
25:B5:46:GLU:HG2	25:B5:53:GLU:CG	2.36	0.54
25:B5:90:ALA:C	25:B5:92:ALA:H	2.16	0.54
29:BD:2:LYS:N	29:BD:2:LYS:HD3	2.22	0.54
33:BH:88:THR:HB	33:BH:92:MET:HE3	1.88	0.54
35:BJ:45:GLY:O	35:BJ:46:VAL:C	2.51	0.54
35:BJ:134:ALA:C	35:BJ:135:ILE:HD13	2.32	0.54
39:BN:28:LYS:NZ	39:BN:86:LYS:HB3	2.21	0.54
42:BR:48:GLN:HB2	42:BR:55:VAL:HG22	1.90	0.54
43:BS:8:ASP:OD1	43:BS:84:PHE:HA	2.06	0.54
46:BW:40:SER:HA	46:BW:43:LEU:CG	2.36	0.54
49:B1:6:GLU:C	49:B1:26:LYS:HA	2.32	0.54
1:AA:115:G:O2'	1:AA:116:A:C8	2.58	0.54
1:AA:483:C:H5''	1:AA:484:G:C4'	2.38	0.54
1:AA:1306:A:H1'	1:AA:1332:A:N1	2.22	0.54
1:AA:1344:C:OP1	10:AI:118:ARG:HD2	2.08	0.54
1:AA:1479:C:H2'	1:AA:1480:A:C8	2.41	0.54
4:AC:36:PHE:O	4:AC:40:GLN:HG3	2.08	0.54
6:AE:51:LYS:HD2	6:AE:51:LYS:N	2.23	0.54
10:AI:67:LYS:HD3	10:AI:67:LYS:N	2.22	0.54
10:AI:119:LYS:C	10:AI:121:ARG:N	2.64	0.54
12:AK:45:THR:HG22	12:AK:46:ALA:N	2.23	0.54
16:AO:56:LEU:CD1	16:AO:57:ARG:HD3	2.36	0.54
21:AT:23:ARG:HB3	21:AT:60:GLN:NE2	2.14	0.54
22:B0:18:U:H5''	40:BO:25:GLY:O	2.07	0.54
22:B0:495:G:N2	41:BQ:57:ASN:HD22	2.06	0.54
22:B0:827:U:H5'	22:B0:828:U:C6	2.42	0.54
22:B0:961:C:OP1	22:B0:2496:C:C2	2.60	0.54
22:B0:1125:G:H5''	22:B0:1126:A:OP2	2.07	0.54
22:B0:1203:U:OP2	35:BJ:11:GLY:N	2.40	0.54
22:B0:1388:G:H2'	22:B0:1389:G:C8	2.42	0.54
22:B0:1493:A:C8	26:BA:183:VAL:HG13	2.42	0.54
22:B0:1532:U:H2'	22:B0:1533:C:C6	2.43	0.54
22:B0:1698:A:H1'	22:B0:1700:A:OP2	2.07	0.54
22:B0:1761:C:C5	22:B0:1762:A:C4	2.96	0.54
22:B0:1803:A:N6	22:B0:1814:G:H21	2.06	0.54
22:B0:2121:G:O3'	22:B0:2122:U:H3'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2558:C:H2'	22:B0:2558:C:O2	2.08	0.54
22:B0:2819:G:O2'	22:B0:2820:A:OP1	2.25	0.54
25:B3:58:LEU:CD1	25:B3:115:ALA:HB1	2.38	0.54
26:BA:146:LYS:CG	26:BA:147:PRO:HD2	2.38	0.54
27:BB:83:ARG:HH11	27:BB:83:ARG:HG3	1.73	0.54
35:BJ:36:LYS:N	35:BJ:36:LYS:HD2	2.22	0.54
37:BL:30:ARG:HH12	37:BL:75:ILE:HD12	1.71	0.54
40:BO:34:ALA:C	40:BO:36:GLN:H	2.15	0.54
42:BR:63:VAL:HG22	42:BR:64:LYS:N	2.23	0.54
1:AA:429:U:P	1:AA:430:A:H5''	2.48	0.54
1:AA:450:G:H4'	17:AP:15:PRO:CG	2.35	0.54
1:AA:975:A:C4'	1:AA:976:G:H5''	2.37	0.54
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.41	0.54
1:AA:1528:U:O3'	1:AA:1530:G:OP2	2.26	0.54
2:AU:73:A:H4'	2:AV:76:A:H5''	1.88	0.54
2:AW:60:C:H5''	2:AW:61:C:OP2	2.08	0.54
4:AC:126:ARG:NH1	4:AC:126:ARG:HB3	2.23	0.54
16:AO:23:SER:HB2	16:AO:26:VAL:HG23	1.90	0.54
22:B0:129:C:C4	22:B0:130:C:N4	2.75	0.54
22:B0:479:A:H2'	22:B0:480:A:C5'	2.38	0.54
22:B0:493:G:C8	41:BQ:10:ALA:HB2	2.42	0.54
22:B0:527:C:N4	22:B0:2781:A:N6	2.56	0.54
22:B0:800:A:C2	28:BC:59:PRO:HA	2.42	0.54
22:B0:1157:G:H2'	22:B0:1157:G:N3	2.22	0.54
22:B0:1265:A:O2'	22:B0:1266:G:C4'	2.56	0.54
22:B0:1272:A:O2'	22:B0:1273:U:H5''	2.06	0.54
22:B0:1452:C:H2'	22:B0:1453:U:O4'	2.07	0.54
22:B0:1969:A:O2'	22:B0:1972:G:H1'	2.08	0.54
22:B0:2040:G:H2'	22:B0:2041:U:O4'	2.07	0.54
22:B0:2327:A:H2'	45:BU:10:ARG:NE	2.23	0.54
22:B0:2508:G:O2'	22:B0:2555:U:H4'	2.08	0.54
24:B2:46:ASN:HA	24:B2:169:ILE:CG2	2.37	0.54
24:B2:208:ILE:H	24:B2:208:ILE:CD1	2.11	0.54
25:B3:17:MET:HB3	25:B3:53:GLU:HG2	1.89	0.54
26:BA:163:ILE:HD12	26:BA:163:ILE:H	1.72	0.54
26:BA:175:LEU:CD2	26:BA:179:GLU:HB3	2.37	0.54
29:BD:33:ILE:HG13	29:BD:91:ARG:HH21	1.71	0.54
29:BD:97:GLU:C	29:BD:99:PHE:H	2.14	0.54
32:BG:116:MET:HB3	32:BG:124:MET:HE2	1.88	0.54
35:BJ:55:MET:N	35:BJ:56:PRO:HA	2.15	0.54
37:BL:30:ARG:HG3	37:BL:31:HIS:ND1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:84:GLY:HA2	37:BL:86:ARG:H	1.72	0.54
38:BM:15:ARG:HG2	38:BM:18:LEU:HB2	1.89	0.54
42:BR:72:GLN:HA	42:BR:72:GLN:NE2	2.23	0.54
45:BU:68:PHE:O	45:BU:73:PRO:HB3	2.07	0.54
49:B1:4:ILE:HG23	49:B1:4:ILE:O	2.06	0.54
1:AA:279:A:H5''	1:AA:280:C:O5'	2.08	0.54
1:AA:749:A:H2'	1:AA:749:A:N3	2.22	0.54
1:AA:1322:C:C5'	1:AA:1323:G:OP1	2.53	0.54
1:AA:1455:G:H2'	1:AA:1459:G:C8	2.40	0.54
2:AU:9:A:O2'	2:AU:45:G:H2'	2.08	0.54
2:AV:70:C:H2'	2:AV:71:G:H8	1.72	0.54
3:AB:185:ILE:HG12	3:AB:185:ILE:O	2.07	0.54
4:AC:134:LYS:HA	4:AC:167:TYR:CE2	2.42	0.54
6:AE:55:VAL:O	6:AE:59:ILE:HG12	2.08	0.54
9:AH:86:LYS:HE3	9:AH:91:LEU:HG	1.90	0.54
11:AJ:46:LYS:O	11:AJ:46:LYS:HD2	2.07	0.54
13:AL:56:LEU:HD22	13:AL:56:LEU:N	2.21	0.54
17:AP:12:LYS:HD2	17:AP:12:LYS:N	2.22	0.54
20:AS:40:PHE:N	20:AS:43:MET:HE3	2.22	0.54
22:B0:154:U:H2'	22:B0:161:A:O4'	2.08	0.54
22:B0:535:G:C1'	40:BO:52:ARG:HG3	2.35	0.54
22:B0:750:A:O2'	22:B0:751:A:H5'	2.08	0.54
22:B0:1113:U:H2'	22:B0:1114:C:C6	2.42	0.54
22:B0:1464:G:H2'	22:B0:1465:U:H5'	1.89	0.54
22:B0:1495:A:H1'	26:BA:128:THR:HG22	1.90	0.54
22:B0:1960:A:H2'	22:B0:1961:C:H6	1.73	0.54
22:B0:2106:U:H2'	22:B0:2107:G:H8	1.73	0.54
26:BA:86:ARG:NH2	26:BA:88:ALA:HB3	2.23	0.54
27:BB:122:VAL:CG2	27:BB:141:ARG:HA	2.37	0.54
30:BE:76:ILE:HD13	30:BE:76:ILE:C	2.33	0.54
37:BL:34:ILE:O	37:BL:112:TYR:HA	2.07	0.54
40:BO:56:PHE:C	40:BO:58:GLN:N	2.66	0.54
41:BQ:27:LYS:HG2	41:BQ:28:LYS:HG2	1.88	0.54
1:AA:436:C:O2'	1:AA:437:U:P	2.66	0.54
1:AA:721:G:H4'	1:AA:722:G:C5'	2.37	0.54
1:AA:913:A:H4'	1:AA:914:A:O5'	2.07	0.54
1:AA:1118:U:H4'	10:AI:104:THR:HG23	1.89	0.54
2:AV:9:A:O2'	2:AV:45:G:H2'	2.08	0.54
4:AC:131:ARG:O	4:AC:135:ARG:HG2	2.08	0.54
6:AE:71:ILE:HD13	6:AE:73:VAL:HG13	1.90	0.54
6:AE:81:GLN:O	9:AH:96:ALA:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:133:ILE:HD12	6:AE:133:ILE:N	2.23	0.54
8:AG:31:VAL:O	8:AG:32:ASP:HB2	2.08	0.54
13:AL:115:LYS:NZ	13:AL:115:LYS:HB3	2.23	0.54
22:B0:329:G:O6	43:BS:65:GLN:HB3	2.06	0.54
22:B0:698:C:H4'	22:B0:734:A:N1	2.22	0.54
22:B0:863:A:H2'	22:B0:864:G:C8	2.43	0.54
22:B0:956:G:C2'	36:BK:80:VAL:HG22	2.33	0.54
22:B0:1024:G:H5'	22:B0:1025:G:C4'	2.37	0.54
22:B0:1416:G:H1	26:BA:94:LEU:C	2.16	0.54
22:B0:2175:C:O2	24:B2:171:HIS:HB3	2.07	0.54
22:B0:2287:A:O2'	22:B0:2288:A:O5'	2.26	0.54
22:B0:2478:A:H1'	22:B0:2529:G:P	2.48	0.54
22:B0:2747:G:H5''	30:BE:69:ALA:HB1	1.89	0.54
24:B2:172:THR:HG21	24:B2:191:LEU:CD2	2.38	0.54
26:BA:243:PRO:HB3	26:BA:259:ASN:ND2	2.23	0.54
30:BE:102:ILE:HD11	30:BE:112:VAL:HB	1.90	0.54
35:BJ:108:ALA:O	35:BJ:126:ARG:HG2	2.07	0.54
37:BL:38:LEU:C	37:BL:40:LYS:N	2.66	0.54
42:BR:87:LEU:HD12	42:BR:87:LEU:N	2.23	0.54
46:BW:51:ALA:O	46:BW:55:THR:HG23	2.08	0.54
1:AA:36:C:O5'	1:AA:36:C:H6	1.91	0.54
1:AA:229:U:H2'	1:AA:230:G:C8	2.43	0.54
1:AA:1053:G:O6	1:AA:1200:C:H5'	2.07	0.54
1:AA:1380:U:H4'	1:AA:1381:U:C6	2.42	0.54
2:AU:18:G:H1'	2:AU:57:G:N2	2.22	0.54
4:AC:26:LYS:HD2	4:AC:26:LYS:C	2.33	0.54
5:AD:49:ASP:O	5:AD:52:VAL:HG12	2.08	0.54
6:AE:140:ILE:O	6:AE:144:GLU:HG3	2.08	0.54
8:AG:112:ASP:OD1	8:AG:118:ARG:HG2	2.07	0.54
9:AH:86:LYS:HB2	9:AH:90:GLU:HB3	1.89	0.54
10:AI:83:THR:CG2	10:AI:102:PHE:HB3	2.31	0.54
21:AT:48:LYS:HB2	21:AT:48:LYS:HZ2	1.73	0.54
22:B0:494:G:N3	41:BQ:6:LYS:HG3	2.23	0.54
22:B0:500:G:H5'	22:B0:505:A:N6	2.23	0.54
22:B0:801:G:N1	28:BC:72:SER:OG	2.41	0.54
22:B0:877:A:H2'	22:B0:878:A:C8	2.42	0.54
22:B0:910:A:N6	36:BK:10:ARG:CG	2.71	0.54
22:B0:990:A:N6	22:B0:1186:G:H1'	2.23	0.54
25:B3:17:MET:HE3	25:B3:53:GLU:CD	2.33	0.54
25:B3:51:LYS:HA	25:B3:52:THR:CA	2.38	0.54
25:B3:68:VAL:HG22	25:B3:115:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B5:17:MET:O	25:B5:21:GLU:HG3	2.08	0.54
28:BC:92:HIS:CE1	35:BJ:25:SER:HB3	2.42	0.54
29:BD:48:LEU:HA	29:BD:51:ASN:HD21	1.73	0.54
29:BD:63:LYS:HD3	29:BD:63:LYS:N	2.20	0.54
33:BH:109:LEU:HD11	33:BH:116:ARG:NH2	2.22	0.54
39:BN:22:GLY:O	39:BN:25:VAL:HB	2.08	0.54
39:BN:107:ALA:HB3	39:BN:110:LYS:HG2	1.88	0.54
40:BO:46:TYR:O	40:BO:47:ARG:HG2	2.08	0.54
41:BQ:83:LYS:HD2	41:BQ:83:LYS:C	2.33	0.54
45:BU:39:GLN:CG	45:BU:68:PHE:HA	2.38	0.54
1:AA:177:G:H5''	21:AT:59:ARG:HH22	1.73	0.54
1:AA:419:C:H4'	1:AA:541:G:O2'	2.08	0.54
1:AA:427:U:N3	1:AA:428:G:N7	2.56	0.54
1:AA:1336:C:H41	8:AG:108:ARG:NH2	2.06	0.54
1:AA:1379:G:H2'	1:AA:1380:U:O4'	2.08	0.54
3:AB:222:GLU:OE1	3:AB:228:LEU:HD21	2.08	0.54
7:AF:26:THR:HA	7:AF:29:ILE:HG22	1.89	0.54
7:AF:42:TRP:CZ2	7:AF:61:LEU:HD21	2.42	0.54
11:AJ:42:LEU:HB3	11:AJ:43:PRO:HD2	1.89	0.54
17:AP:57:ILE:CD1	17:AP:75:ILE:HD13	2.38	0.54
22:B0:63:A:H4'	22:B0:64:A:C8	2.43	0.54
22:B0:163:C:H4'	22:B0:164:C:C6	2.43	0.54
22:B0:524:G:C4'	22:B0:555:U:H4'	2.38	0.54
22:B0:1421:G:C2	26:BA:149:LYS:CG	2.90	0.54
22:B0:1495:A:C3'	26:BA:190:THR:HA	2.25	0.54
22:B0:1496:A:OP2	26:BA:191:LEU:O	2.25	0.54
22:B0:2677:G:O4'	27:BB:160:LYS:HD3	2.08	0.54
22:B0:2895:C:H4'	33:BH:43:GLU:HG3	1.90	0.54
25:B5:69:ILE:HD12	25:B5:84:LYS:HA	1.90	0.54
26:BA:62:ARG:HH21	26:BA:150:GLY:C	2.15	0.54
28:BC:83:VAL:HG11	35:BJ:30:THR:CG2	2.27	0.54
28:BC:177:PRO:O	35:BJ:17:LYS:HB2	2.08	0.54
33:BH:105:VAL:HA	33:BH:108:MET:CE	2.36	0.54
34:BI:105:ARG:HG3	34:BI:108:ARG:NH2	2.23	0.54
35:BJ:135:ILE:HG13	35:BJ:142:ILE:HD11	1.90	0.54
37:BL:53:THR:C	37:BL:55:ALA:N	2.64	0.54
37:BL:102:PHE:HA	37:BL:109:PRO:HA	1.89	0.54
38:BM:40:ILE:HD13	38:BM:40:ILE:C	2.32	0.54
39:BN:94:ALA:O	39:BN:95:LYS:HB2	2.07	0.54
40:BO:4:LYS:HE2	40:BO:5:ARG:N	2.22	0.54
40:BO:26:ALA:HB3	40:BO:27:ARG:CZ	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:1:MET:HE1	46:BW:21:LEU:HD11	1.88	0.54
49:B1:6:GLU:O	49:B1:26:LYS:HA	2.08	0.54
49:B1:14:ALA:HA	49:B1:47:ILE:O	2.08	0.54
1:AA:417:G:N1	1:AA:427:U:C2	2.76	0.54
1:AA:815:A:N7	1:AA:1510:C:H4'	2.23	0.54
1:AA:1268:G:H1'	1:AA:1326:U:O2'	2.07	0.54
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.73	0.54
2:AU:74:C:C3'	22:B0:2557:G:O4'	2.55	0.54
4:AC:99:GLN:HG3	4:AC:100:ILE:N	2.19	0.54
8:AG:30:MET:O	8:AG:31:VAL:C	2.50	0.54
8:AG:52:ARG:O	8:AG:52:ARG:HD3	2.08	0.54
8:AG:112:ASP:CG	8:AG:118:ARG:HG2	2.33	0.54
10:AI:119:LYS:HD2	10:AI:119:LYS:N	2.23	0.54
14:AM:21:ILE:HG22	14:AM:23:GLY:H	1.73	0.54
22:B0:34:U:H5'	22:B0:35:G:OP2	2.07	0.54
22:B0:151:C:H5'	22:B0:1360:G:OP1	2.08	0.54
22:B0:447:A:H5''	22:B0:448:U:OP1	2.07	0.54
22:B0:520:G:OP1	41:BQ:25:ARG:HD2	2.08	0.54
22:B0:699:A:H2'	22:B0:700:G:O4'	2.08	0.54
22:B0:738:G:C2	22:B0:739:A:H1'	2.42	0.54
22:B0:800:A:N7	28:BC:56:GLY:N	2.47	0.54
22:B0:1203:U:OP2	35:BJ:10:GLU:HB3	2.08	0.54
22:B0:1322:A:H2	22:B0:1334:G:H5'	1.71	0.54
22:B0:1421:G:C4	26:BA:149:LYS:HB3	2.42	0.54
22:B0:1454:A:H3'	22:B0:1455:U:H4'	1.90	0.54
22:B0:1695:G:C2'	22:B0:1696:G:H5'	2.38	0.54
22:B0:1903:G:H2'	22:B0:1904:G:C8	2.43	0.54
22:B0:2503:A:H5''	22:B0:2504:U:OP1	2.08	0.54
22:B0:2900:C:H5	33:BH:139:VAL:HG22	1.73	0.54
25:B3:96:GLU:HB3	25:B5:8:ILE:CG2	2.36	0.54
25:B5:69:ILE:O	25:B5:73:ARG:HG3	2.08	0.54
28:BC:35:TYR:CD2	35:BJ:18:ARG:HA	2.42	0.54
40:BO:15:LYS:HZ2	40:BO:15:LYS:H	1.54	0.54
40:BO:91:ARG:O	40:BO:92:LYS:HD2	2.07	0.54
44:BT:3:THR:C	44:BT:4:ILE:HD12	2.33	0.54
1:AA:426:U:H4'	5:AD:38:GLY:H	1.73	0.53
1:AA:737:C:H2'	1:AA:738:C:C6	2.42	0.53
1:AA:1108:G:H2'	1:AA:1109:C:C6	2.42	0.53
2:AV:18:G:H5''	2:AV:60:C:C2	2.43	0.53
10:AI:82:ILE:O	10:AI:86:LEU:HG	2.08	0.53
15:AN:63:CYS:HB3	15:AN:67:GLY:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:47:LYS:HA	16:AO:47:LYS:CE	2.36	0.53
20:AS:12:LEU:O	20:AS:16:LYS:HG3	2.08	0.53
21:AT:8:LYS:HB2	21:AT:8:LYS:NZ	2.23	0.53
22:B0:588:U:N3	28:BC:74:LYS:HA	2.22	0.53
22:B0:1030:C:O5'	22:B0:1030:C:H6	1.90	0.53
22:B0:1201:U:N3	22:B0:1245:G:N2	2.49	0.53
22:B0:1201:U:C2	35:BJ:14:LYS:HE3	2.43	0.53
22:B0:1651:G:H1	22:B0:2006:C:N4	2.06	0.53
22:B0:1800:C:O2'	22:B0:1801:A:OP2	2.23	0.53
22:B0:1985:C:H2'	22:B0:1986:C:C6	2.43	0.53
22:B0:2555:U:C4	22:B0:2556:C:N4	2.76	0.53
22:B0:2722:G:H2'	22:B0:2723:C:C6	2.43	0.53
24:B2:22:ILE:HG22	24:B2:185:LYS:HB2	1.91	0.53
26:BA:137:GLY:N	26:BA:163:ILE:HB	2.14	0.53
28:BC:33:VAL:HB	35:BJ:22:GLY:HA2	1.90	0.53
32:BG:136:GLY:O	32:BG:137:LEU:O	2.26	0.53
35:BJ:56:PRO:CB	35:BJ:59:ARG:HB3	2.37	0.53
40:BO:57:ARG:CZ	40:BO:92:LYS:HZ1	2.22	0.53
40:BO:82:LEU:HD13	40:BO:82:LEU:O	2.08	0.53
41:BQ:19:LEU:O	41:BQ:19:LEU:HD23	2.08	0.53
45:BU:58:LEU:CB	45:BU:81:ILE:HA	2.38	0.53
46:BW:13:GLU:HA	46:BW:16:THR:HG22	1.91	0.53
1:AA:32:A:H2'	1:AA:33:A:O4'	2.08	0.53
1:AA:321:A:H2	1:AA:332:G:H22	1.56	0.53
1:AA:817:C:C1'	1:AA:819:A:H5'	2.39	0.53
1:AA:1349:A:N6	1:AA:1373:G:H1'	2.23	0.53
2:AU:18:G:H1	2:AU:55:U:H6	1.56	0.53
3:AB:26:MET:HE2	3:AB:187:ASP:O	2.08	0.53
6:AE:110:MET:O	6:AE:114:LEU:HG	2.09	0.53
10:AI:27:ILE:HB	10:AI:34:LEU:HG	1.90	0.53
10:AI:56:MET:HE3	10:AI:60:LEU:HD21	1.90	0.53
17:AP:6:LEU:HD12	17:AP:6:LEU:N	2.24	0.53
17:AP:56:ARG:HA	17:AP:56:ARG:NE	2.23	0.53
22:B0:190:A:H5''	22:B0:204:A:C2	2.44	0.53
22:B0:226:A:H61	22:B0:409:G:N2	2.03	0.53
22:B0:494:G:C4	41:BQ:6:LYS:HD2	2.42	0.53
22:B0:529:A:H4'	22:B0:530:G:O5'	2.08	0.53
22:B0:589:U:H3	28:BC:74:LYS:HE3	1.74	0.53
22:B0:672:C:H2'	22:B0:673:C:C6	2.43	0.53
22:B0:675:A:H62	28:BC:61:ARG:NH1	2.06	0.53
22:B0:955:U:O2'	22:B0:2276:G:H4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1992:G:O2'	22:B0:1993:U:H3'	2.07	0.53
22:B0:1992:G:C2	27:BB:138:LEU:HD11	2.43	0.53
22:B0:2351:G:H2'	22:B0:2352:A:C8	2.42	0.53
22:B0:2445:G:H2'	22:B0:2446:G:H8	1.72	0.53
22:B0:2898:G:N7	33:BH:15:TRP:CG	2.76	0.53
25:B3:73:ARG:NH1	25:B3:73:ARG:HB3	2.23	0.53
26:BA:140:VAL:C	26:BA:141:HIS:CD2	2.87	0.53
33:BH:32:LEU:HB3	33:BH:54:ILE:HD12	1.90	0.53
33:BH:58:ASN:HB3	33:BH:127:GLY:O	2.08	0.53
39:BN:30:TRP:CZ3	39:BN:85:VAL:HB	2.43	0.53
40:BO:9:ALA:O	40:BO:10:ARG:HB2	2.08	0.53
42:BR:66:LYS:HA	42:BR:66:LYS:CE	2.38	0.53
1:AA:979:C:C5'	20:AS:5:LYS:NZ	2.71	0.53
1:AA:1195:C:H3'	1:AA:1196:A:C5'	2.38	0.53
1:AA:1230:C:H2'	1:AA:1231:G:C8	2.43	0.53
1:AA:1300:G:O2'	1:AA:1303:C:N4	2.41	0.53
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.73	0.53
3:AB:169:HIS:HE1	3:AB:173:LYS:HD3	1.73	0.53
4:AC:111:ASP:O	4:AC:115:VAL:HG23	2.09	0.53
9:AH:100:ILE:C	9:AH:100:ILE:HD12	2.33	0.53
22:B0:580:U:O2'	22:B0:581:C:H5'	2.07	0.53
22:B0:620:G:O2'	22:B0:621:A:OP2	2.18	0.53
22:B0:960:A:C2	22:B0:2497:A:H5''	2.44	0.53
22:B0:1306:C:N4	22:B0:1606:C:H2'	2.24	0.53
22:B0:1578:U:O3'	26:BA:65:ASP:HA	2.07	0.53
22:B0:1828:G:C5'	22:B0:1829:A:OP1	2.49	0.53
22:B0:2447:G:N7	22:B0:2501:C:OP2	2.41	0.53
25:B5:26:MET:O	25:B5:35:ALA:HB1	2.08	0.53
26:BA:81:GLU:C	26:BA:90:ILE:HG12	2.32	0.53
26:BA:86:ARG:HD2	26:BA:195:GLY:HA3	1.89	0.53
27:BB:108:ASP:OD2	27:BB:206:ALA:HA	2.08	0.53
28:BC:66:GLY:O	28:BC:72:SER:HA	2.08	0.53
28:BC:134:LEU:HB3	28:BC:164:LEU:HD11	1.90	0.53
35:BJ:76:GLU:HB3	35:BJ:108:ALA:HB2	1.90	0.53
37:BL:40:LYS:HG3	37:BL:41:ALA:N	2.23	0.53
37:BL:98:LEU:N	37:BL:98:LEU:HD12	2.23	0.53
38:BM:15:ARG:HB2	38:BM:18:LEU:HD13	1.89	0.53
40:BO:16:ILE:C	40:BO:18:LYS:N	2.65	0.53
42:BR:68:LYS:O	42:BR:69:ARG:HB3	2.08	0.53
48:BZ:36:LYS:HE2	48:BZ:38:LEU:HD12	1.88	0.53
1:AA:18:C:H2'	1:AA:19:A:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:430:A:O2'	1:AA:431:A:C4	2.61	0.53
1:AA:762:U:H2'	1:AA:763:G:H8	1.73	0.53
1:AA:802:A:H2'	1:AA:803:G:O4'	2.08	0.53
1:AA:1381:U:C2	8:AG:78:ARG:NH1	2.77	0.53
2:AU:70:C:H2'	2:AU:71:G:H8	1.73	0.53
4:AC:119:ILE:HD11	4:AC:136:ALA:CB	2.38	0.53
5:AD:8:LEU:HD11	5:AD:29:THR:H	1.72	0.53
13:AL:49:ARG:HH12	13:AL:88:ASP:CG	2.16	0.53
16:AO:32:THR:HG22	16:AO:36:ASN:HD21	1.73	0.53
22:B0:480:A:H2'	22:B0:506:G:N2	2.23	0.53
22:B0:600:G:C1'	28:BC:99:LYS:HB3	2.38	0.53
22:B0:826:U:O4'	35:BJ:55:MET:HB3	2.08	0.53
22:B0:857:G:H4'	45:BU:71:LYS:HZ2	1.72	0.53
22:B0:876:C:H2'	22:B0:877:A:C8	2.42	0.53
22:B0:956:G:H2'	36:BK:80:VAL:CG2	2.36	0.53
22:B0:1490:C:H5'	26:BA:160:TYR:CE1	2.44	0.53
22:B0:1578:U:O2'	26:BA:65:ASP:N	2.41	0.53
22:B0:2242:G:H1	22:B0:2435:A:H62	1.57	0.53
22:B0:2280:G:O2'	22:B0:2281:A:H5'	2.08	0.53
22:B0:2726:A:OP2	27:BB:129:THR:HG21	2.08	0.53
24:B2:47:LEU:HA	24:B2:207:TYR:O	2.09	0.53
26:BA:64:VAL:CG1	26:BA:150:GLY:HA2	2.38	0.53
28:BC:43:THR:CG2	28:BC:91:ASP:HB3	2.38	0.53
32:BG:60:VAL:HG12	32:BG:61:TYR:CD1	2.43	0.53
40:BO:45:ALA:O	40:BO:47:ARG:N	2.42	0.53
1:AA:69:G:H1	1:AA:99:C:H42	1.56	0.53
1:AA:143:A:H2	1:AA:220:G:H22	1.56	0.53
1:AA:419:C:C5'	1:AA:540:G:N2	2.70	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.43	0.53
1:AA:809:G:O2'	1:AA:810:C:H5'	2.07	0.53
1:AA:817:C:O4'	1:AA:819:A:H5'	2.08	0.53
1:AA:837:U:H2'	1:AA:838:G:C8	2.42	0.53
1:AA:976:G:N2	1:AA:1362:A:H3'	2.22	0.53
1:AA:979:C:C5'	20:AS:5:LYS:HD2	2.32	0.53
1:AA:1151:A:H2'	1:AA:1152:A:C8	2.43	0.53
1:AA:1238:A:C2	1:AA:1242:G:H1'	2.43	0.53
1:AA:1300:G:H5'	1:AA:1301:U:OP1	2.08	0.53
2:AU:37:G:H2'	2:AU:38:A:O4'	2.09	0.53
2:AU:75:C:OP1	22:B0:2556:C:C6	2.61	0.53
7:AF:75:GLU:HB3	7:AF:79:ARG:HH12	1.74	0.53
11:AJ:17:LEU:HD12	11:AJ:18:ILE:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AQ:7:LEU:HD12	18:AQ:7:LEU:N	2.24	0.53
22:B0:87:U:H3	22:B0:95:A:H2	1.53	0.53
22:B0:121:G:O6	22:B0:130:C:C4	2.61	0.53
22:B0:165:A:H4'	22:B0:172:A:H8	1.71	0.53
22:B0:700:G:N2	22:B0:733:G:H1'	2.23	0.53
22:B0:817:C:H2'	22:B0:818:G:O4'	2.08	0.53
22:B0:942:G:H5''	35:BJ:42:SER:CB	2.37	0.53
22:B0:1202:G:O4'	35:BJ:14:LYS:HG3	2.09	0.53
22:B0:1240:U:H2'	22:B0:1241:A:C8	2.43	0.53
22:B0:1421:G:N3	26:BA:149:LYS:CA	2.69	0.53
22:B0:1580:A:C8	26:BA:68:ARG:HG2	2.43	0.53
22:B0:1650:A:H2'	22:B0:1651:G:C8	2.43	0.53
22:B0:2279:G:H5''	45:BU:4:LYS:HE3	1.91	0.53
22:B0:2528:U:H3'	22:B0:2530:A:C8	2.43	0.53
22:B0:2550:G:N2	22:B0:2558:C:N4	2.56	0.53
25:B3:51:LYS:HG2	25:B5:50:GLU:HG3	1.90	0.53
25:B5:36:ALA:O	25:B5:40:VAL:HG12	2.09	0.53
26:BA:86:ARG:CZ	26:BA:88:ALA:HB3	2.38	0.53
26:BA:122:ALA:O	26:BA:129:LEU:HD21	2.08	0.53
26:BA:143:VAL:HG22	26:BA:153:LEU:CB	2.37	0.53
28:BC:43:THR:HG22	28:BC:90:GLN:O	2.08	0.53
28:BC:77:ILE:O	28:BC:77:ILE:HG22	2.08	0.53
29:BD:90:LEU:HD13	29:BD:90:LEU:N	2.24	0.53
34:BI:43:ILE:HD11	34:BI:53:LYS:HG3	1.90	0.53
34:BI:80:ASP:OD1	39:BN:70:GLU:HG3	2.07	0.53
35:BJ:134:ALA:HB3	35:BJ:135:ILE:HD13	1.89	0.53
38:BM:9:ARG:HH21	38:BM:16:ARG:HB2	1.74	0.53
39:BN:64:SER:HA	39:BN:71:ARG:CG	2.37	0.53
40:BO:54:ARG:H	40:BO:57:ARG:CG	2.19	0.53
41:BQ:51:LEU:O	41:BQ:51:LEU:HD13	2.09	0.53
47:BX:28:LEU:HD12	47:BX:28:LEU:N	2.24	0.53
48:BZ:38:LEU:HD12	48:BZ:38:LEU:N	2.24	0.53
1:AA:22:G:H2'	1:AA:23:C:C6	2.43	0.53
1:AA:291:U:O2'	1:AA:292:G:H5'	2.08	0.53
1:AA:448:A:H2'	1:AA:449:G:O4'	2.09	0.53
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.43	0.53
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.72	0.53
4:AC:149:LYS:HG3	4:AC:168:ARG:HB3	1.90	0.53
13:AL:23:LEU:HG	13:AL:58:ASN:HB3	1.91	0.53
14:AM:95:PRO:HB3	14:AM:101:THR:CG2	2.39	0.53
22:B0:662:G:H4'	28:BC:95:LYS:HE3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1035:U:H2'	22:B0:1036:G:C8	2.43	0.53
22:B0:1044:C:O2'	22:B0:1045:C:H5''	2.07	0.53
22:B0:1155:A:C6	22:B0:1157:G:H1'	2.43	0.53
22:B0:1340:U:H1'	22:B0:1603:A:C5'	2.39	0.53
22:B0:1495:A:N7	26:BA:142:ASN:HB3	2.24	0.53
22:B0:1501:C:HO2'	26:BA:199:HIS:HE2	1.53	0.53
22:B0:1581:A:H62	26:BA:68:ARG:HH12	1.57	0.53
22:B0:1929:G:H4'	22:B0:1930:G:O5'	2.09	0.53
22:B0:2005:A:H3'	22:B0:2006:C:C5	2.43	0.53
22:B0:2127:G:C2'	22:B0:2166:U:H5'	2.39	0.53
22:B0:2175:C:H3'	22:B0:2175:C:C6	2.43	0.53
22:B0:2266:A:H5''	22:B0:2267:A:O5'	2.09	0.53
22:B0:2591:C:H2'	22:B0:2592:G:H8	1.72	0.53
22:B0:2898:G:C2	33:BH:132:HIS:CE1	2.96	0.53
23:B9:76:G:N2	23:B9:100:G:N2	2.56	0.53
25:B3:45:VAL:O	25:B3:46:GLU:C	2.52	0.53
25:B3:58:LEU:HD23	25:B3:87:VAL:HA	1.91	0.53
26:BA:129:LEU:HD22	26:BA:129:LEU:N	2.24	0.53
28:BC:91:ASP:O	35:BJ:27:LEU:O	2.26	0.53
28:BC:186:VAL:CG2	28:BC:187:VAL:H	2.06	0.53
33:BH:123:LYS:HG3	33:BH:124:VAL:N	2.24	0.53
38:BM:7:ARG:HA	38:BM:10:ARG:NE	2.23	0.53
38:BM:35:ILE:HD13	38:BM:35:ILE:C	2.33	0.53
39:BN:6:GLN:C	39:BN:9:GLN:HE22	2.17	0.53
39:BN:20:ARG:HA	39:BN:21:PRO:C	2.34	0.53
40:BO:109:VAL:HG23	40:BO:110:GLU:N	2.23	0.53
42:BR:73:ARG:HD2	42:BR:73:ARG:C	2.34	0.53
44:BT:34:LYS:HD3	44:BT:34:LYS:N	2.24	0.53
44:BT:80:HIS:HD2	44:BT:83:LYS:HG2	1.73	0.53
46:BW:47:ARG:HG3	46:BW:48:ARG:HD2	1.91	0.53
1:AA:482:A:O2'	1:AA:483:C:P	2.66	0.53
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.41	0.53
1:AA:1239:A:C6	1:AA:1296:C:H1'	2.43	0.53
1:AA:1344:C:H4'	10:AI:119:LYS:HZ3	1.74	0.53
1:AA:1367:C:H3'	10:AI:115:VAL:HG11	1.91	0.53
2:AV:70:C:H2'	2:AV:71:G:C8	2.44	0.53
3:AB:42:LEU:O	3:AB:46:VAL:HG23	2.09	0.53
3:AB:102:ASN:O	3:AB:106:VAL:HG23	2.08	0.53
5:AD:2:ARG:HD3	5:AD:67:LEU:HD22	1.91	0.53
5:AD:170:LEU:HD21	5:AD:181:PHE:HD1	1.74	0.53
8:AG:144:ALA:C	8:AG:146:ALA:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AJ:5:ARG:C	11:AJ:6:ILE:HD12	2.34	0.53
13:AL:23:LEU:C	13:AL:25:ALA:H	2.17	0.53
16:AO:56:LEU:HD12	16:AO:57:ARG:CD	2.39	0.53
22:B0:321:U:C5'	22:B0:322:A:OP2	2.50	0.53
22:B0:493:G:C3'	41:BQ:8:ARG:HA	2.34	0.53
22:B0:1416:G:C2	22:B0:1417:U:C4	2.97	0.53
22:B0:1577:C:H5''	26:BA:61:TYR:CD1	2.43	0.53
22:B0:1830:C:H42	22:B0:1975:G:N2	2.00	0.53
22:B0:2127:G:H2'	22:B0:2166:U:P	2.49	0.53
22:B0:2411:A:H2'	22:B0:2412:A:C8	2.44	0.53
24:B2:49:ILE:HD13	24:B2:49:ILE:N	2.23	0.53
25:B3:93:ALA:HB2	25:B5:4:LYS:HD3	1.90	0.53
26:BA:62:ARG:NH2	26:BA:149:LYS:HG3	2.24	0.53
26:BA:149:LYS:HG3	26:BA:150:GLY:N	2.21	0.53
27:BB:31:ALA:HB1	27:BB:94:GLN:NE2	2.23	0.53
29:BD:41:GLU:O	29:BD:42:ALA:HB3	2.07	0.53
29:BD:160:LYS:HD2	29:BD:160:LYS:N	2.21	0.53
31:BF:6:LEU:HA	31:BF:13:GLY:O	2.09	0.53
36:BK:108:VAL:O	36:BK:110:GLU:N	2.42	0.53
39:BN:43:GLU:HG3	39:BN:44:GLY:H	1.73	0.53
39:BN:64:SER:C	39:BN:71:ARG:HG2	2.34	0.53
40:BO:9:ALA:C	40:BO:11:ALA:H	2.17	0.53
49:B1:29:LYS:H	49:B1:29:LYS:CD	2.22	0.53
1:AA:400:C:H2'	1:AA:401:C:C6	2.44	0.53
1:AA:482:A:N7	1:AA:486:U:N3	2.55	0.53
2:AU:75:C:P	22:B0:2557:G:O4'	2.67	0.53
2:AW:69:U:H2'	2:AW:70:C:C6	2.44	0.53
10:AI:90:ASP:OD1	10:AI:92:SER:HB2	2.09	0.53
16:AO:57:ARG:HG2	16:AO:57:ARG:HH11	1.74	0.53
22:B0:71:A:H62	22:B0:114:U:H3	1.56	0.53
22:B0:121:G:O5'	22:B0:121:G:H8	1.92	0.53
22:B0:1242:U:H2'	22:B0:1243:C:C6	2.44	0.53
22:B0:1498:C:H5'	26:BA:61:TYR:O	2.09	0.53
22:B0:1580:A:O4'	26:BA:68:ARG:CB	2.53	0.53
22:B0:1800:C:O2'	22:B0:1801:A:P	2.66	0.53
22:B0:1900:A:H4'	22:B0:1971:U:OP1	2.09	0.53
22:B0:1996:C:N3	27:BB:138:LEU:CD2	2.71	0.53
22:B0:2092:U:H5'	22:B0:2093:G:OP1	2.09	0.53
22:B0:2102:G:H1	22:B0:2187:U:H3	1.55	0.53
22:B0:2132:U:OP1	24:B2:7:MET:SD	2.67	0.53
22:B0:2164:C:O2'	22:B0:2165:C:C2	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2406:A:H2'	22:B0:2406:A:N3	2.24	0.53
25:B5:50:GLU:HA	25:B5:54:PHE:HA	1.91	0.53
28:BC:108:ILE:HG23	28:BC:109:LEU:N	2.24	0.53
33:BH:103:ILE:O	33:BH:106:LYS:HB3	2.09	0.53
41:BQ:18:ARG:C	41:BQ:20:VAL:N	2.65	0.53
45:BU:65:LYS:H	45:BU:65:LYS:CD	2.21	0.53
1:AA:231:U:H2'	1:AA:232:G:H8	1.74	0.53
1:AA:707:U:H2'	1:AA:708:C:C6	2.43	0.53
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.44	0.53
1:AA:1386:G:O2'	10:AI:129:ARG:HD2	2.09	0.53
2:AU:75:C:O5'	22:B0:2557:G:O4'	2.26	0.53
2:AV:3:G:H2'	2:AV:4:G:H8	1.72	0.53
2:AW:56:C:H41	22:B0:2122:U:H3	1.56	0.53
5:AD:78:ALA:HB3	5:AD:89:LEU:HD23	1.90	0.53
6:AE:37:VAL:HG11	6:AE:113:VAL:HA	1.91	0.53
7:AF:42:TRP:HE3	7:AF:59:TYR:HB3	1.74	0.53
13:AL:98:ARG:HA	13:AL:103:CYS:SG	2.48	0.53
21:AT:53:MET:CE	21:AT:78:LEU:HD12	2.39	0.53
22:B0:20:C:H2'	22:B0:21:A:H8	1.74	0.53
22:B0:493:G:H5''	41:BQ:9:HIS:N	2.13	0.53
22:B0:661:A:OP1	35:BJ:27:LEU:HA	2.09	0.53
22:B0:685:A:H1'	22:B0:687:C:N4	2.23	0.53
22:B0:971:G:H5'	22:B0:983:A:N3	2.24	0.53
22:B0:1417:U:C4	26:BA:98:GLY:O	2.62	0.53
22:B0:1491:A:H5'	26:BA:161:VAL:HB	1.89	0.53
22:B0:1658:C:C4	22:B0:1659:G:N7	2.77	0.53
22:B0:1679:A:H2'	22:B0:1680:U:C6	2.43	0.53
22:B0:2158:A:O2'	22:B0:2159:G:H4'	2.09	0.53
22:B0:2439:A:C5'	22:B0:2440:C:OP1	2.55	0.53
32:BG:48:ILE:H	32:BG:48:ILE:CD1	2.16	0.53
35:BJ:6:LEU:HD23	35:BJ:6:LEU:H	1.73	0.53
35:BJ:26:GLY:O	35:BJ:27:LEU:C	2.50	0.53
49:B1:47:ILE:HG22	49:B1:48:TYR:N	2.23	0.53
1:AA:47:C:O4'	1:AA:365:U:C2	2.62	0.53
1:AA:337:G:H2'	1:AA:338:A:C8	2.44	0.53
1:AA:481:G:O2'	1:AA:482:A:O4'	2.27	0.53
1:AA:608:A:H3'	1:AA:609:A:C8	2.43	0.53
1:AA:1049:U:HO2'	1:AA:1050:G:P	2.31	0.53
1:AA:1138:G:H3'	1:AA:1138:G:N3	2.23	0.53
1:AA:1241:G:H2'	1:AA:1241:G:N3	2.24	0.53
1:AA:1365:G:H2'	1:AA:1366:C:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1383:C:O2'	1:AA:1384:C:OP1	2.26	0.53
2:AU:69:U:H2'	2:AU:70:C:C6	2.44	0.53
3:AB:45:THR:HG22	3:AB:49:PHE:CE2	2.44	0.53
7:AF:51:ILE:HD12	7:AF:51:ILE:O	2.10	0.53
9:AH:10:LEU:HG	9:AH:74:ILE:HG12	1.90	0.53
21:AT:23:ARG:HG2	21:AT:65:LEU:HD13	1.90	0.53
22:B0:535:G:H5'	40:BO:49:ARG:CB	2.39	0.53
22:B0:846:U:O2'	22:B0:848:C:O5'	2.28	0.53
22:B0:947:A:H2'	22:B0:948:C:C6	2.44	0.53
22:B0:956:G:H1'	22:B0:2250:G:N1	2.24	0.53
22:B0:1083:U:O2'	25:B3:81:LYS:CE	2.54	0.53
22:B0:1105:U:H2'	22:B0:1106:G:C8	2.42	0.53
22:B0:1418:G:H1'	26:BA:99:GLU:OE1	2.08	0.53
22:B0:1458:C:H2'	22:B0:1459:U:H5'	1.91	0.53
22:B0:1900:A:H5''	22:B0:1901:A:OP1	2.08	0.53
22:B0:2030:A:H4'	22:B0:2031:A:N7	2.24	0.53
22:B0:2160:C:H5''	22:B0:2162:G:OP2	2.09	0.53
22:B0:2263:C:H5''	45:BU:11:ASN:CA	2.33	0.53
25:B5:81:LYS:HE3	25:B5:82:GLU:OE1	2.09	0.53
27:BB:13:ARG:C	27:BB:13:ARG:NE	2.64	0.53
27:BB:31:ALA:HB1	27:BB:94:GLN:HE22	1.74	0.53
28:BC:90:GLN:O	35:BJ:29:LYS:HB3	2.09	0.53
35:BJ:17:LYS:C	35:BJ:18:ARG:NE	2.67	0.53
36:BK:53:MET:HE1	36:BK:103:TYR:CD2	2.43	0.53
37:BL:38:LEU:HD11	37:BL:109:PRO:HD2	1.90	0.53
37:BL:75:ILE:H	37:BL:75:ILE:CD1	2.13	0.53
40:BO:91:ARG:HG3	40:BO:94:LEU:HD12	1.91	0.53
41:BQ:16:LYS:HD2	41:BQ:16:LYS:N	2.23	0.53
41:BQ:36:LEU:HD11	41:BQ:44:ALA:O	2.09	0.53
48:BZ:31:LYS:HG2	48:BZ:32:THR:N	2.23	0.53
1:AA:548:G:H2'	1:AA:549:C:O4'	2.09	0.52
1:AA:915:A:H2'	1:AA:916:U:H5'	1.89	0.52
1:AA:1257:A:O2'	1:AA:1258:G:OP2	2.23	0.52
1:AA:1399:C:H5''	1:AA:1400:C:OP1	2.09	0.52
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.43	0.52
2:AU:63:C:H2'	2:AU:64:A:C8	2.44	0.52
2:AW:66:A:O3'	49:B1:4:ILE:HB	2.09	0.52
16:AO:33:ALA:HA	16:AO:36:ASN:HD22	1.74	0.52
22:B0:163:C:H5'	22:B0:164:C:C5'	2.38	0.52
22:B0:311:A:N6	22:B0:329:G:H5''	2.23	0.52
22:B0:518:G:H5''	41:BQ:18:ARG:CZ	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:959:A:OP2	36:BK:80:VAL:HG21	2.08	0.52
22:B0:960:A:C3'	22:B0:2496:C:H3'	2.37	0.52
22:B0:1086:A:H3'	22:B0:1086:A:N3	2.24	0.52
22:B0:1495:A:N9	26:BA:189:ALA:O	2.42	0.52
22:B0:1502:C:H2'	22:B0:1503:G:H8	1.73	0.52
22:B0:2086:U:H2'	22:B0:2087:G:C8	2.44	0.52
22:B0:2109:U:O2'	22:B0:2110:G:OP1	2.28	0.52
22:B0:2164:C:H1'	22:B0:2165:C:C2	2.44	0.52
22:B0:2312:U:H6	22:B0:2312:U:O5'	1.92	0.52
22:B0:2472:G:N2	22:B0:2529:G:H22	2.06	0.52
22:B0:2688:G:O6	22:B0:2720:U:OP2	2.27	0.52
24:B2:10:ILE:HG13	24:B2:32:LEU:HD22	1.91	0.52
28:BC:97:ASN:O	28:BC:101:TYR:HB3	2.09	0.52
31:BF:127:GLU:HG2	31:BF:143:ILE:HD11	1.91	0.52
36:BK:5:LYS:H	36:BK:5:LYS:CD	2.19	0.52
41:BQ:19:LEU:O	41:BQ:22:ASP:HB3	2.08	0.52
42:BR:93:LEU:HD22	42:BR:95:PHE:H	1.73	0.52
46:BW:41:HIS:CE1	46:BW:45:GLN:HG3	2.44	0.52
46:BW:52:ARG:O	46:BW:56:LEU:HD13	2.08	0.52
49:B1:48:TYR:O	49:B1:49:LYS:HB2	2.08	0.52
1:AA:734:G:H8	1:AA:734:G:O5'	1.92	0.52
2:AV:20:G:C2	2:AV:21:A:H4'	2.45	0.52
3:AB:19:THR:HG23	3:AB:20:ARG:N	2.21	0.52
5:AD:40:HIS:HB3	5:AD:43:ARG:HD3	1.90	0.52
22:B0:415:A:N6	22:B0:2408:U:N3	2.56	0.52
22:B0:501:A:O2'	22:B0:502:A:P	2.67	0.52
22:B0:1038:G:H2'	22:B0:1039:A:C8	2.44	0.52
22:B0:1084:A:H61	25:B3:85:ASP:HB2	1.73	0.52
22:B0:1491:A:C2	26:BA:172:THR:HB	2.43	0.52
22:B0:1494:A:N1	26:BA:129:LEU:O	2.43	0.52
22:B0:1512:C:C2'	22:B0:1513:C:H5''	2.36	0.52
22:B0:1591:A:H2'	22:B0:1592:U:C6	2.44	0.52
22:B0:1607:C:O2	22:B0:1607:C:C2'	2.54	0.52
22:B0:2002:G:H2'	22:B0:2003:A:C8	2.44	0.52
22:B0:2377:A:H2'	22:B0:2378:A:C8	2.45	0.52
22:B0:2898:G:N2	33:BH:55:ILE:HG21	2.24	0.52
24:B2:26:ILE:HG21	24:B2:181:ALA:HA	1.92	0.52
25:B3:44:PRO:HA	25:B3:47:ALA:HB2	1.91	0.52
26:BA:91:ALA:CB	26:BA:105:ALA:HB2	2.39	0.52
27:BB:80:TRP:CE3	27:BB:84:LEU:HB3	2.44	0.52
28:BC:117:ARG:HB3	28:BC:118:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:144:LYS:HD2	29:BD:144:LYS:C	2.33	0.52
32:BG:77:VAL:O	32:BG:78:LEU:HB2	2.09	0.52
33:BH:74:TYR:HB2	33:BH:76:HIS:CE1	2.45	0.52
34:BI:18:ARG:HG3	34:BI:44:LYS:HB3	1.91	0.52
37:BL:53:THR:HG22	37:BL:54:LEU:CD2	2.39	0.52
37:BL:98:LEU:HB3	48:BZ:52:LYS:HB3	1.90	0.52
38:BM:35:ILE:HG22	38:BM:53:THR:HB	1.92	0.52
40:BO:63:ARG:HH11	40:BO:63:ARG:CB	2.23	0.52
42:BR:30:ILE:CG1	42:BR:87:LEU:HD11	2.31	0.52
49:B1:8:ILE:HG22	49:B1:25:ASN:O	2.10	0.52
1:AA:243:A:O2'	1:AA:244:U:H5'	2.09	0.52
1:AA:372:C:H4'	1:AA:373:A:C8	2.44	0.52
1:AA:430:A:O2'	1:AA:431:A:N9	2.42	0.52
1:AA:546:A:H5'	1:AA:548:G:O2'	2.10	0.52
1:AA:629:A:H2'	1:AA:630:A:H8	1.74	0.52
1:AA:1385:G:C2'	10:AI:128:LYS:HD2	2.39	0.52
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.45	0.52
5:AD:90:LEU:HD21	5:AD:187:ARG:HH11	1.75	0.52
8:AG:101:ARG:HG2	8:AG:105:GLU:OE2	2.09	0.52
12:AK:28:ASN:HB2	12:AK:56:LYS:HG3	1.91	0.52
13:AL:115:LYS:C	13:AL:117:GLY:H	2.18	0.52
18:AQ:61:ARG:HG3	18:AQ:75:VAL:HG21	1.92	0.52
19:AR:54:LEU:O	19:AR:58:ILE:HG13	2.08	0.52
22:B0:123:G:H4'	22:B0:1376:C:C5'	2.38	0.52
22:B0:586:A:C4'	28:BC:78:TRP:HA	2.33	0.52
22:B0:589:U:C5	28:BC:47:LYS:N	2.77	0.52
22:B0:700:G:O2'	22:B0:701:G:H5'	2.09	0.52
22:B0:1203:U:H2'	22:B0:1204:A:C8	2.44	0.52
22:B0:1890:A:H2	22:B0:2234:G:N2	2.07	0.52
22:B0:1943:U:OP1	22:B0:1943:U:H6	1.92	0.52
22:B0:2138:G:N2	22:B0:2158:A:N6	2.57	0.52
22:B0:2562:U:H2'	22:B0:2563:U:O4'	2.08	0.52
26:BA:119:VAL:HG12	26:BA:133:ASN:HD21	1.74	0.52
27:BB:27:ILE:HD12	27:BB:201:LEU:HD21	1.91	0.52
27:BB:32:ASN:OD1	27:BB:83:ARG:HB2	2.09	0.52
28:BC:99:LYS:O	28:BC:103:GLY:HA3	2.09	0.52
33:BH:136:GLN:H	33:BH:137:PRO:CD	2.16	0.52
39:BN:107:ALA:HB3	39:BN:110:LYS:CG	2.39	0.52
41:BQ:15:GLN:O	41:BQ:18:ARG:HD2	2.09	0.52
42:BR:9:LYS:HE3	46:BW:25:GLN:HE22	1.74	0.52
42:BR:23:ALA:C	42:BR:25:GLU:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:45:HIS:ND1	45:BU:56:HIS:HB2	2.24	0.52
47:BX:43:ILE:HA	47:BX:46:MET:HE2	1.90	0.52
1:AA:41:G:H1'	1:AA:402:G:H22	1.73	0.52
1:AA:365:U:O2	1:AA:365:U:C2'	2.58	0.52
1:AA:715:A:H2'	1:AA:716:A:C8	2.44	0.52
1:AA:858:G:O6	1:AA:869:G:H3'	2.10	0.52
1:AA:940:C:H2'	1:AA:941:G:H8	1.75	0.52
1:AA:994:A:N3	1:AA:994:A:H2'	2.24	0.52
2:AV:56:C:H2'	2:AV:57:G:C8	2.45	0.52
6:AE:45:VAL:HB	6:AE:71:ILE:HD11	1.91	0.52
10:AI:4:GLN:OE1	10:AI:21:LYS:HE3	2.09	0.52
21:AT:30:PHE:O	21:AT:34:VAL:HG23	2.10	0.52
22:B0:371:A:H5''	22:B0:372:G:OP1	2.08	0.52
22:B0:401:A:H2'	22:B0:402:A:C8	2.45	0.52
22:B0:588:U:C2	28:BC:74:LYS:CA	2.91	0.52
22:B0:973:A:H5''	22:B0:974:G:OP1	2.09	0.52
22:B0:1397:U:O2'	22:B0:1398:C:OP1	2.26	0.52
22:B0:1496:A:N6	26:BA:194:VAL:HG21	2.24	0.52
22:B0:2245:U:O5'	22:B0:2245:U:H6	1.92	0.52
22:B0:2378:A:O2'	38:BM:17:LYS:HD3	2.09	0.52
22:B0:2677:G:H22	22:B0:2731:G:H1'	1.73	0.52
23:B9:68:C:H2'	23:B9:69:G:H8	1.73	0.52
25:B3:96:GLU:HB3	25:B5:8:ILE:HA	1.90	0.52
26:BA:62:ARG:HH22	26:BA:149:LYS:NZ	2.07	0.52
27:BB:146:ILE:O	27:BB:155:VAL:HG23	2.08	0.52
29:BD:11:VAL:O	29:BD:11:VAL:HG22	2.09	0.52
29:BD:25:MET:C	29:BD:27:VAL:H	2.17	0.52
39:BN:23:ASP:HA	39:BN:49:ILE:HG23	1.91	0.52
40:BO:64:ILE:HD12	40:BO:78:PHE:CE1	2.44	0.52
41:BQ:8:ARG:O	41:BQ:9:HIS:HB2	2.10	0.52
42:BR:43:ILE:HB	42:BR:60:THR:CG2	2.39	0.52
42:BR:68:LYS:HA	42:BR:68:LYS:HZ3	1.73	0.52
45:BU:70:VAL:HB	45:BU:71:LYS:HD2	1.91	0.52
49:B1:26:LYS:H	49:B1:26:LYS:CD	2.22	0.52
1:AA:98:A:H2'	1:AA:99:C:C6	2.43	0.52
1:AA:391:G:H21	1:AA:483:C:C1'	2.20	0.52
1:AA:533:A:O2'	1:AA:534:U:OP1	2.27	0.52
1:AA:734:G:H2'	1:AA:735:C:O4'	2.09	0.52
1:AA:1240:U:H3'	1:AA:1241:G:H8	1.73	0.52
2:AU:76:A:H1'	22:B0:2549:G:N7	2.24	0.52
2:AW:9:A:O2'	2:AW:45:G:H2'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:109:GLU:HB2	4:AC:143:LEU:CD2	2.39	0.52
5:AD:52:VAL:HG13	5:AD:53:GLN:NE2	2.25	0.52
7:AF:81:ASN:HB3	7:AF:84:VAL:HG12	1.92	0.52
12:AK:106:ILE:O	12:AK:106:ILE:HG23	2.09	0.52
14:AM:94:LEU:HD22	14:AM:94:LEU:N	2.24	0.52
16:AO:46:LYS:HD2	16:AO:46:LYS:N	2.23	0.52
22:B0:801:G:N3	28:BC:65:THR:OG1	2.35	0.52
22:B0:858:G:C2	22:B0:2268:A:H2'	2.44	0.52
22:B0:2391:G:H1'	22:B0:2429:G:H21	1.73	0.52
22:B0:2491:U:H2'	22:B0:2492:U:H5'	1.89	0.52
22:B0:2662:A:H2'	22:B0:2663:G:O4'	2.09	0.52
25:B3:107:LYS:HG2	25:B3:111:GLU:OE2	2.10	0.52
26:BA:104:LEU:HD13	26:BA:105:ALA:N	2.23	0.52
26:BA:157:ALA:HA	26:BA:194:VAL:CG1	2.40	0.52
27:BB:81:GLU:O	27:BB:82:PHE:CB	2.53	0.52
28:BC:108:ILE:HG12	28:BC:181:ILE:HD13	1.90	0.52
28:BC:146:VAL:O	28:BC:149:ILE:HB	2.09	0.52
28:BC:180:LEU:O	28:BC:186:VAL:HG11	2.08	0.52
35:BJ:134:ALA:O	35:BJ:135:ILE:C	2.53	0.52
39:BN:49:ILE:HD13	39:BN:99:LEU:HD13	1.90	0.52
40:BO:6:GLY:C	40:BO:8:ILE:H	2.18	0.52
46:BW:28:LEU:O	46:BW:29:ARG:C	2.51	0.52
46:BW:40:SER:HA	46:BW:43:LEU:CD1	2.39	0.52
48:BZ:54:ILE:HD13	48:BZ:54:ILE:N	2.20	0.52
49:B1:34:GLU:HG2	49:B1:49:LYS:HA	1.91	0.52
1:AA:655:A:H2'	1:AA:656:G:O4'	2.10	0.52
1:AA:674:G:H2'	1:AA:675:A:C8	2.44	0.52
1:AA:713:G:H2'	1:AA:714:G:C8	2.44	0.52
1:AA:841:U:H5'	1:AA:848:C:O4'	2.09	0.52
1:AA:886:G:C4'	1:AA:915:A:H1'	2.39	0.52
1:AA:894:G:H2'	1:AA:895:G:C8	2.44	0.52
1:AA:1195:C:H3'	1:AA:1196:A:H5'	1.92	0.52
3:AB:73:ARG:N	3:AB:73:ARG:HD3	2.25	0.52
4:AC:187:GLU:HG3	4:AC:188:ALA:H	1.75	0.52
11:AJ:92:LEU:N	11:AJ:92:LEU:HD12	2.25	0.52
14:AM:75:SER:O	14:AM:79:LEU:HD22	2.09	0.52
17:AP:71:VAL:O	17:AP:75:ILE:HG13	2.09	0.52
22:B0:873:C:H4'	36:BK:64:TRP:CZ3	2.43	0.52
22:B0:1197:G:O2'	40:BO:7:VAL:HG23	2.09	0.52
22:B0:1218:G:H1	22:B0:1231:U:H3	1.57	0.52
22:B0:1251:C:O2'	22:B0:1252:G:H5''	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1424:G:P	26:BA:58:LYS:HA	2.49	0.52
22:B0:1579:A:P	26:BA:65:ASP:HA	2.48	0.52
22:B0:1669:A:H61	22:B0:1993:U:H3	1.58	0.52
22:B0:2065:C:H2'	22:B0:2066:C:C6	2.45	0.52
22:B0:2175:C:C6	22:B0:2175:C:C3'	2.93	0.52
22:B0:2439:A:H3'	22:B0:2600:A:OP1	2.10	0.52
22:B0:2484:G:H2'	22:B0:2485:G:H8	1.73	0.52
22:B0:2542:A:H4'	22:B0:2543:G:C8	2.43	0.52
24:B2:64:LEU:CD1	24:B2:160:VAL:HG11	2.40	0.52
25:B3:98:VAL:HB	25:B3:102:ASP:CB	2.39	0.52
26:BA:198:GLU:CG	26:BA:201:LEU:HD12	2.39	0.52
27:BB:104:VAL:O	27:BB:104:VAL:HG12	2.10	0.52
28:BC:181:ILE:HG13	35:BJ:17:LYS:CG	2.40	0.52
28:BC:189:THR:O	28:BC:193:VAL:HG23	2.09	0.52
33:BH:36:LEU:H	33:BH:36:LEU:CD2	2.20	0.52
37:BL:38:LEU:C	37:BL:40:LYS:H	2.16	0.52
39:BN:2:ASN:ND2	39:BN:4:ILE:HG23	2.24	0.52
40:BO:106:THR:C	40:BO:108:LEU:H	2.18	0.52
41:BQ:77:ASP:O	41:BQ:78:GLU:HB2	2.09	0.52
42:BR:30:ILE:HG12	42:BR:87:LEU:CD1	2.31	0.52
1:AA:1238:A:H1'	1:AA:1241:G:N2	2.25	0.52
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.09	0.52
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.44	0.52
1:AA:1429:A:H2'	1:AA:1430:A:H8	1.74	0.52
2:AW:3:G:C5'	22:B0:1880:U:H5''	2.40	0.52
5:AD:154:VAL:O	5:AD:158:LEU:HD23	2.10	0.52
14:AM:19:THR:O	14:AM:19:THR:HG22	2.10	0.52
16:AO:56:LEU:HD13	16:AO:56:LEU:C	2.35	0.52
20:AS:86:LYS:H	20:AS:86:LYS:CD	2.18	0.52
22:B0:58:G:H8	22:B0:58:G:OP2	1.93	0.52
22:B0:558:G:H2'	22:B0:559:G:C8	2.45	0.52
22:B0:586:A:O2'	28:BC:77:ILE:HA	2.09	0.52
22:B0:590:A:H2'	22:B0:591:U:O4'	2.09	0.52
22:B0:629:G:C4'	22:B0:638:G:H21	2.20	0.52
22:B0:1199:U:H2'	22:B0:1200:C:C6	2.44	0.52
22:B0:1421:G:C4	26:BA:148:GLY:CA	2.93	0.52
22:B0:1668:A:O2'	22:B0:1670:C:H5	1.92	0.52
22:B0:2064:C:H1'	22:B0:2450:A:N1	2.25	0.52
22:B0:2443:C:H2'	22:B0:2444:G:H8	1.74	0.52
22:B0:2484:G:C4'	36:BK:44:ARG:HD3	2.38	0.52
22:B0:2558:C:O2	22:B0:2558:C:C2'	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2568:U:H2'	22:B0:2569:G:C8	2.45	0.52
22:B0:2655:G:O2'	22:B0:2656:U:H5	1.92	0.52
22:B0:2770:G:H5'	27:BB:45:TYR:HB3	1.92	0.52
22:B0:2856:A:H2'	22:B0:2862:G:H1	1.75	0.52
23:B9:37:C:N4	23:B9:44:G:H1	2.08	0.52
24:B2:191:LEU:C	24:B2:191:LEU:HD13	2.35	0.52
26:BA:76:VAL:CG2	26:BA:94:LEU:HB3	2.39	0.52
27:BB:123:LYS:HA	27:BB:141:ARG:HH21	1.75	0.52
27:BB:172:VAL:CG1	27:BB:175:LEU:HD11	2.40	0.52
29:BD:79:ARG:HG2	29:BD:80:GLN:N	2.19	0.52
36:BK:50:ARG:HD2	36:BK:50:ARG:C	2.35	0.52
40:BO:116:LEU:HD23	40:BO:116:LEU:N	2.22	0.52
41:BQ:49:LYS:HZ3	41:BQ:49:LYS:N	2.07	0.52
48:BZ:31:LYS:HE2	48:BZ:47:TYR:CG	2.45	0.52
1:AA:269:C:H2'	1:AA:270:A:C8	2.44	0.52
1:AA:405:U:O4	1:AA:545:C:N3	2.43	0.52
1:AA:777:A:H2'	1:AA:778:G:O4'	2.09	0.52
1:AA:1148:U:P	10:AI:10:ARG:NH2	2.82	0.52
1:AA:1246:C:H2'	1:AA:1247:U:C6	2.45	0.52
1:AA:1257:A:O2'	1:AA:1258:G:P	2.68	0.52
2:AV:7:U:H5''	2:AV:8:U:OP1	2.10	0.52
2:AW:35:A:H2'	2:AW:36:A:C8	2.45	0.52
2:AW:70:C:H2'	2:AW:71:G:H8	1.75	0.52
3:AB:26:MET:O	3:AB:30:ILE:HG13	2.10	0.52
4:AC:107:LYS:HB3	4:AC:143:LEU:HD21	1.91	0.52
6:AE:132:PRO:HG2	6:AE:133:ILE:CD1	2.39	0.52
8:AG:129:ASN:O	8:AG:130:LYS:HB3	2.10	0.52
12:AK:112:VAL:HG22	12:AK:112:VAL:O	2.08	0.52
13:AL:56:LEU:H	13:AL:56:LEU:CD2	2.20	0.52
22:B0:845:A:H2'	22:B0:846:U:C6	2.44	0.52
22:B0:860:U:H2'	22:B0:861:A:C8	2.39	0.52
22:B0:979:A:O5'	22:B0:980:A:H5''	2.10	0.52
22:B0:990:A:H2	40:BO:46:TYR:HH	1.57	0.52
22:B0:1434:A:H2'	22:B0:1435:G:O4'	2.09	0.52
22:B0:1490:C:H5'	26:BA:160:TYR:CD1	2.44	0.52
22:B0:1901:A:H2'	22:B0:1902:C:C6	2.45	0.52
22:B0:2786:U:H2'	22:B0:2787:C:C6	2.45	0.52
23:B9:82:U:H2'	23:B9:83:G:C8	2.45	0.52
25:B3:41:ALA:C	25:B3:44:PRO:HD2	2.34	0.52
25:B5:26:MET:HB3	25:B5:38:VAL:HG11	1.91	0.52
27:BB:66:GLY:O	27:BB:70:LYS:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:118:PHE:HA	27:BB:163:GLY:O	2.10	0.52
27:BB:136:ASN:C	27:BB:138:LEU:H	2.18	0.52
29:BD:59:ILE:HD13	29:BD:59:ILE:N	2.25	0.52
29:BD:134:GLN:C	29:BD:135:ILE:HD12	2.35	0.52
37:BL:63:ARG:NH1	37:BL:64:ARG:NE	2.54	0.52
41:BQ:88:ARG:NE	41:BQ:88:ARG:N	2.57	0.52
42:BR:12:ARG:HA	42:BR:12:ARG:HH11	1.73	0.52
48:BZ:27:LEU:HA	48:BZ:36:LYS:CG	2.39	0.52
48:BZ:27:LEU:HA	48:BZ:36:LYS:HG3	1.92	0.52
1:AA:402:G:O5'	1:AA:402:G:H8	1.93	0.52
1:AA:545:C:C5'	1:AA:549:C:H4'	2.36	0.52
1:AA:935:A:H2'	1:AA:936:C:C6	2.45	0.52
1:AA:975:A:H61	11:AJ:59:LYS:CE	2.22	0.52
1:AA:1266:G:N2	1:AA:1269:A:OP2	2.43	0.52
3:AB:17:HIS:CD2	3:AB:18:GLN:HE21	2.28	0.52
5:AD:12:ARG:HH21	5:AD:37:PRO:HB3	1.75	0.52
11:AJ:51:VAL:O	11:AJ:62:ARG:HA	2.09	0.52
15:AN:72:PHE:HA	15:AN:79:SER:HA	1.91	0.52
17:AP:28:ARG:C	17:AP:29:ASN:HD22	2.17	0.52
21:AT:8:LYS:HD3	21:AT:11:ILE:HD11	1.91	0.52
21:AT:77:ASN:O	21:AT:81:GLN:HG3	2.10	0.52
22:B0:220:G:H4'	22:B0:234:U:H4'	1.92	0.52
22:B0:571:U:H5''	22:B0:572:A:OP1	2.10	0.52
22:B0:870:U:H2'	22:B0:871:U:O4'	2.09	0.52
22:B0:877:A:N1	22:B0:900:A:N1	2.58	0.52
22:B0:958:U:C5	36:BK:81:ARG:N	2.78	0.52
22:B0:1223:G:N2	22:B0:1225:G:H3'	2.25	0.52
22:B0:1421:G:O5'	22:B0:1421:G:H8	1.93	0.52
22:B0:2136:G:N3	22:B0:2136:G:C3'	2.71	0.52
22:B0:2175:C:H4'	24:B2:167:ASN:HD22	1.74	0.52
23:B9:11:C:H2'	23:B9:12:C:H5'	1.92	0.52
24:B2:189:GLU:O	24:B2:193:VAL:HG23	2.09	0.52
25:B5:57:ILE:HB	25:B5:118:GLU:HG2	1.92	0.52
27:BB:131:ASP:O	27:BB:132:ALA:HB3	2.10	0.52
27:BB:185:ASN:C	27:BB:186:LEU:HD23	2.35	0.52
28:BC:175:ILE:HB	28:BC:180:LEU:CD2	2.38	0.52
29:BD:136:ILE:HD12	29:BD:136:ILE:N	2.24	0.52
40:BO:39:ILE:O	40:BO:43:GLN:HG2	2.10	0.52
40:BO:106:THR:HA	40:BO:109:VAL:HG22	1.92	0.52
42:BR:66:LYS:HZ2	42:BR:67:VAL:HG23	1.75	0.52
1:AA:188:C:H2'	1:AA:189:A:H4'	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:420:U:N1	5:AD:39:GLN:NE2	2.58	0.52
1:AA:979:C:H3'	20:AS:5:LYS:HD2	1.92	0.52
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.45	0.52
3:AB:96:LEU:HD21	3:AB:146:SER:OG	2.10	0.52
4:AC:34:SER:O	4:AC:38:VAL:HG13	2.09	0.52
5:AD:144:ILE:HD11	5:AD:158:LEU:HD21	1.92	0.52
6:AE:10:LEU:HD23	6:AE:10:LEU:C	2.35	0.52
6:AE:137:ARG:O	6:AE:140:ILE:HG13	2.10	0.52
7:AF:15:SER:O	7:AF:18:VAL:HG23	2.10	0.52
8:AG:21:LEU:HD12	8:AG:61:PHE:CE2	2.45	0.52
14:AM:97:ARG:HB3	14:AM:98:GLY:N	2.25	0.52
22:B0:307:G:N2	22:B0:330:A:N6	2.58	0.52
22:B0:368:A:O2'	22:B0:369:U:H5'	2.09	0.52
22:B0:635:C:H2'	22:B0:636:G:O4'	2.10	0.52
22:B0:973:A:H4'	22:B0:1186:G:N2	2.24	0.52
22:B0:1001:A:H2'	22:B0:1002:G:O4'	2.10	0.52
22:B0:1497:U:H2'	26:BA:61:TYR:HB3	1.90	0.52
22:B0:1755:A:H2'	22:B0:1756:G:H5'	1.91	0.52
22:B0:1771:C:H2'	22:B0:1772:A:H8	1.75	0.52
22:B0:2157:G:H4'	22:B0:2158:A:H4'	1.91	0.52
22:B0:2469:A:H2'	22:B0:2470:G:O4'	2.10	0.52
24:B2:110:PHE:HE1	24:B2:135:LEU:HD13	1.75	0.52
25:B3:59:LYS:HD3	25:B3:116:GLU:OE2	2.10	0.52
28:BC:177:PRO:O	28:BC:180:LEU:HB2	2.10	0.52
33:BH:53:TYR:HB3	33:BH:121:LYS:O	2.10	0.52
37:BL:40:LYS:HG3	37:BL:41:ALA:H	1.74	0.52
41:BQ:76:VAL:HG23	41:BQ:76:VAL:O	2.09	0.52
45:BU:46:ALA:CB	45:BU:76:ARG:H	2.22	0.52
1:AA:279:A:P	1:AA:281:G:H5'	2.50	0.51
1:AA:924:C:H1'	1:AA:1399:C:N4	2.25	0.51
1:AA:1221:G:C2'	20:AS:1:PRO:H2	2.16	0.51
2:AV:16:U:C5'	2:AV:17:U:OP1	2.54	0.51
7:AF:30:THR:C	7:AF:32:ALA:H	2.18	0.51
12:AK:92:ARG:O	12:AK:96:ILE:HG13	2.10	0.51
16:AO:59:VAL:HG11	22:B0:715:A:O4'	2.10	0.51
22:B0:476:G:N2	22:B0:479:A:C8	2.78	0.51
22:B0:540:G:H2'	22:B0:541:C:C6	2.45	0.51
22:B0:799:G:H3'	28:BC:57:LYS:CA	2.41	0.51
22:B0:872:U:H2'	22:B0:873:C:C6	2.45	0.51
22:B0:1416:G:C6	26:BA:94:LEU:HA	2.45	0.51
22:B0:1526:G:H21	22:B0:1545:A:H62	1.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1582:C:H41	26:BA:73:ILE:CG2	2.17	0.51
22:B0:2437:G:H1'	22:B0:2598:A:N1	2.24	0.51
22:B0:2511:U:H2'	22:B0:2578:G:H22	1.74	0.51
24:B2:50:ASP:OD2	24:B2:53:LYS:HG3	2.10	0.51
24:B2:73:ARG:HA	24:B2:92:GLU:OE2	2.10	0.51
25:B5:28:GLU:O	25:B5:29:LYS:C	2.52	0.51
28:BC:53:THR:CG2	28:BC:67:ARG:HD3	2.40	0.51
28:BC:90:GLN:HB3	35:BJ:27:LEU:HB2	1.91	0.51
32:BG:137:LEU:HD12	32:BG:138:VAL:H	1.75	0.51
33:BH:99:ARG:HH22	33:BH:102:GLU:CB	2.22	0.51
39:BN:1:SER:OG	39:BN:5:LYS:HE2	2.10	0.51
40:BO:57:ARG:HG2	40:BO:57:ARG:HH11	1.75	0.51
41:BQ:52:GLU:O	41:BQ:55:ILE:HG12	2.09	0.51
42:BR:39:THR:HG23	42:BR:40:LYS:N	2.24	0.51
42:BR:69:ARG:HB3	42:BR:69:ARG:NH1	2.24	0.51
43:BS:51:LEU:HB2	43:BS:53:GLN:NE2	2.19	0.51
1:AA:250:A:O2'	1:AA:251:G:P	2.67	0.51
1:AA:345:C:H5'	1:AA:346:G:C4	2.45	0.51
1:AA:404:G:H5'	1:AA:546:A:C2'	2.40	0.51
1:AA:559:A:H4'	1:AA:560:A:C5'	2.40	0.51
1:AA:588:G:H1	1:AA:651:C:N4	1.98	0.51
1:AA:763:G:H2'	1:AA:764:C:C6	2.46	0.51
1:AA:812:G:O2'	1:AA:813:U:H6	1.91	0.51
1:AA:915:A:C2'	1:AA:916:U:H5'	2.39	0.51
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.10	0.51
2:AV:20:G:C3'	2:AV:21:A:C5'	2.87	0.51
2:AW:7:U:H5''	2:AW:8:U:OP1	2.10	0.51
3:AB:23:ASN:ND2	3:AB:24:PRO:HD2	2.23	0.51
6:AE:80:LEU:CG	6:AE:146:MET:HE1	2.41	0.51
10:AI:5:TYR:CE2	10:AI:89:TYR:HA	2.45	0.51
11:AJ:54:SER:OG	11:AJ:58:ASN:HB3	2.10	0.51
15:AN:40:ARG:HG3	15:AN:40:ARG:HH11	1.75	0.51
16:AO:59:VAL:HG11	22:B0:715:A:C5'	2.40	0.51
17:AP:11:ALA:HB3	17:AP:14:ARG:HB3	1.91	0.51
19:AR:62:ARG:HG2	19:AR:67:LEU:HB2	1.92	0.51
21:AT:58:ASP:OD1	21:AT:75:LYS:HD2	2.11	0.51
22:B0:99:U:H5'	22:B0:102:U:OP2	2.11	0.51
22:B0:233:A:O2'	22:B0:234:U:H5'	2.11	0.51
22:B0:495:G:O2'	41:BQ:106:VAL:HG22	2.10	0.51
22:B0:527:C:H4'	22:B0:528:A:C5'	2.40	0.51
22:B0:589:U:H3	28:BC:74:LYS:CE	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:589:U:C4	28:BC:74:LYS:HE3	2.46	0.51
22:B0:663:G:OP2	28:BC:88:ARG:HD2	2.10	0.51
22:B0:687:C:H2'	22:B0:688:U:O4'	2.10	0.51
22:B0:797:G:H2'	22:B0:798:G:C8	2.45	0.51
22:B0:1060:U:H1'	22:B0:1062:G:OP2	2.10	0.51
22:B0:1495:A:H2'	22:B0:1496:A:O5'	2.10	0.51
22:B0:1532:U:O5'	22:B0:1532:U:H6	1.92	0.51
22:B0:1580:A:C1'	26:BA:68:ARG:HB3	2.39	0.51
22:B0:1599:U:OP1	42:BR:61:LEU:HA	2.10	0.51
22:B0:2176:A:P	24:B2:165:ASP:HB2	2.50	0.51
22:B0:2235:G:H2'	22:B0:2236:U:C6	2.46	0.51
22:B0:2490:G:H4'	22:B0:2491:U:C5'	2.41	0.51
22:B0:2646:C:H2'	22:B0:2647:U:C6	2.45	0.51
22:B0:2678:C:C5'	27:BB:125:TRP:N	2.67	0.51
22:B0:2825:G:H2'	22:B0:2826:A:O4'	2.10	0.51
24:B2:5:LYS:C	24:B2:7:MET:H	2.17	0.51
25:B5:57:ILE:HB	25:B5:118:GLU:CG	2.39	0.51
25:B5:98:VAL:HB	25:B5:102:ASP:HB2	1.93	0.51
26:BA:141:HIS:HE1	26:BA:194:VAL:HA	1.73	0.51
26:BA:141:HIS:NE2	26:BA:192:GLY:O	2.43	0.51
27:BB:16:THR:HG23	27:BB:18:ASP:O	2.10	0.51
29:BD:4:HIS:HB2	29:BD:96:TRP:CD1	2.45	0.51
29:BD:6:TYR:O	29:BD:11:VAL:HG12	2.11	0.51
31:BF:10:ALA:O	31:BF:11:ASN:HB2	2.09	0.51
34:BI:99:ILE:HD13	34:BI:99:ILE:C	2.34	0.51
35:BJ:99:ASN:HD22	35:BJ:99:ASN:N	2.07	0.51
35:BJ:108:ALA:HB3	35:BJ:126:ARG:CZ	2.41	0.51
39:BN:36:LYS:CD	39:BN:37:LYS:HG3	2.39	0.51
39:BN:64:SER:CA	39:BN:71:ARG:HG2	2.41	0.51
40:BO:26:ALA:HB3	40:BO:27:ARG:NH2	2.25	0.51
42:BR:26:LYS:N	42:BR:26:LYS:HD2	2.24	0.51
42:BR:50:LEU:C	42:BR:52:GLU:H	2.18	0.51
1:AA:509:A:O2'	1:AA:510:A:OP1	2.28	0.51
1:AA:782:A:H62	1:AA:800:G:H21	1.58	0.51
1:AA:957:U:H2'	1:AA:959:A:OP2	2.10	0.51
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.27	0.51
1:AA:1188:A:H2'	1:AA:1189:U:O4'	2.10	0.51
2:AU:35:A:H2'	2:AU:36:A:H8	1.74	0.51
3:AB:221:ARG:HH12	3:AB:229:ALA:HB3	1.74	0.51
4:AC:130:ARG:HG3	4:AC:133:MET:HE2	1.92	0.51
5:AD:67:LEU:HD22	5:AD:67:LEU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:96:ARG:O	5:AD:100:VAL:HG23	2.10	0.51
6:AE:17:VAL:HG23	6:AE:33:THR:O	2.09	0.51
9:AH:62:LEU:N	9:AH:62:LEU:HD12	2.26	0.51
10:AI:27:ILE:HG12	10:AI:62:LEU:HB2	1.92	0.51
13:AL:109:ARG:NH1	13:AL:112:ALA:H	2.08	0.51
13:AL:109:ARG:CZ	13:AL:112:ALA:HB3	2.41	0.51
15:AN:46:LYS:HD3	15:AN:46:LYS:C	2.35	0.51
22:B0:636:G:H5''	22:B0:637:A:OP1	2.10	0.51
22:B0:738:G:H1'	22:B0:759:G:N2	2.25	0.51
22:B0:739:A:H4'	22:B0:1981:A:N1	2.25	0.51
22:B0:882:G:H2'	22:B0:883:G:C8	2.45	0.51
22:B0:1217:U:H3	22:B0:1232:G:H1	1.58	0.51
22:B0:1491:A:OP2	26:BA:176:ARG:CA	2.57	0.51
22:B0:1579:A:N3	22:B0:1579:A:H2'	2.24	0.51
22:B0:2032:G:H5'	22:B0:2033:A:OP1	2.10	0.51
22:B0:2043:C:H5'	22:B0:2779:U:O4	2.10	0.51
22:B0:2558:C:C2'	22:B0:2559:C:H5'	2.40	0.51
22:B0:2700:A:H3'	22:B0:2702:G:H5''	1.91	0.51
22:B0:2855:C:C3'	22:B0:2856:A:H5''	2.40	0.51
25:B3:96:GLU:HA	25:B5:8:ILE:CG2	2.40	0.51
25:B3:98:VAL:HG11	25:B3:106:LEU:HD11	1.92	0.51
25:B5:51:LYS:HA	25:B5:52:THR:HG22	1.93	0.51
28:BC:44:ARG:N	28:BC:90:GLN:HA	2.25	0.51
30:BE:140:ILE:HD12	30:BE:140:ILE:C	2.35	0.51
31:BF:7:ASP:HB2	31:BF:35:LYS:HG3	1.92	0.51
31:BF:72:ILE:C	31:BF:74:ALA:H	2.19	0.51
32:BG:92:PRO:HB3	32:BG:135:MET:HA	1.93	0.51
32:BG:115:ASP:O	32:BG:116:MET:HE2	2.09	0.51
34:BI:8:LEU:HD23	34:BI:8:LEU:N	2.25	0.51
35:BJ:37:GLY:O	35:BJ:39:LYS:HD3	2.10	0.51
36:BK:126:ILE:HD13	36:BK:126:ILE:C	2.35	0.51
39:BN:71:ARG:O	39:BN:72:VAL:CB	2.58	0.51
43:BS:64:ILE:HG22	43:BS:65:GLN:N	2.25	0.51
46:BW:42:LEU:O	46:BW:46:VAL:HG23	2.10	0.51
1:AA:24:U:H2'	1:AA:25:C:C6	2.46	0.51
1:AA:234:C:H2'	1:AA:235:C:H6	1.74	0.51
1:AA:421:U:C5	5:AD:43:ARG:HB3	2.46	0.51
1:AA:914:A:O2'	1:AA:915:A:H5'	2.11	0.51
1:AA:952:U:H2'	1:AA:953:G:C8	2.43	0.51
1:AA:975:A:C5'	1:AA:976:G:H5''	2.41	0.51
1:AA:1266:G:H2'	1:AA:1268:G:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:35:LYS:HA	8:AG:38:ALA:HB3	1.92	0.51
11:AJ:57:VAL:CG1	11:AJ:58:ASN:H	2.11	0.51
14:AM:72:ILE:O	14:AM:76:ILE:HG13	2.11	0.51
18:AQ:11:VAL:HG13	18:AQ:20:ILE:HG23	1.93	0.51
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HA	1.91	0.51
22:B0:19:A:H2'	22:B0:20:C:C6	2.45	0.51
22:B0:599:A:H2'	22:B0:600:G:C8	2.45	0.51
22:B0:918:A:H2'	22:B0:919:U:O4'	2.10	0.51
22:B0:1412:G:H2'	22:B0:1413:U:C6	2.45	0.51
22:B0:1416:G:H22	26:BA:94:LEU:HD13	1.75	0.51
22:B0:1425:G:H21	22:B0:1574:C:N4	2.08	0.51
22:B0:1485:C:H2'	22:B0:1486:G:H8	1.74	0.51
22:B0:1500:A:O5'	22:B0:1500:A:H8	1.94	0.51
22:B0:1801:A:N6	22:B0:2223:G:O2'	2.44	0.51
22:B0:2263:C:OP2	45:BU:12:GLY:N	2.44	0.51
22:B0:2778:A:O2'	22:B0:2779:U:H5''	2.10	0.51
22:B0:2832:U:O2'	22:B0:2833:U:P	2.68	0.51
29:BD:147:ARG:NE	29:BD:147:ARG:HA	2.25	0.51
30:BE:162:ARG:HA	30:BE:162:ARG:NE	2.25	0.51
34:BI:87:LEU:C	34:BI:87:LEU:HD12	2.35	0.51
37:BL:49:GLU:HB2	37:BL:52:ILE:CG1	2.40	0.51
37:BL:78:LYS:HE2	37:BL:78:LYS:CA	2.39	0.51
39:BN:72:VAL:HG13	39:BN:73:PHE:N	2.25	0.51
40:BO:31:TYR:HB2	40:BO:32:ARG:HH12	1.76	0.51
40:BO:106:THR:O	40:BO:110:GLU:HG2	2.10	0.51
41:BQ:11:ARG:H	41:BQ:11:ARG:CZ	2.23	0.51
41:BQ:45:VAL:O	41:BQ:46:LEU:HB3	2.11	0.51
41:BQ:75:PHE:H	41:BQ:104:THR:HB	1.76	0.51
42:BR:65:GLY:N	42:BR:77:ARG:NH2	2.50	0.51
48:BZ:37:HIS:CD2	48:BZ:39:ARG:HB2	2.46	0.51
1:AA:68:G:H1	1:AA:101:A:H61	1.58	0.51
1:AA:629:A:H2'	1:AA:630:A:C8	2.46	0.51
1:AA:812:G:O2'	1:AA:813:U:C6	2.64	0.51
2:AV:16:U:H1'	2:AV:18:G:OP1	2.10	0.51
3:AB:117:GLU:O	3:AB:121:GLN:HG3	2.10	0.51
4:AC:66:THR:HG22	4:AC:101:ASN:ND2	2.22	0.51
4:AC:93:ILE:HD12	4:AC:93:ILE:N	2.26	0.51
8:AG:57:GLU:H	8:AG:57:GLU:CD	2.19	0.51
10:AI:16:ALA:HB1	10:AI:78:ILE:HG12	1.93	0.51
11:AJ:30:LYS:HB3	11:AJ:30:LYS:HZ2	1.75	0.51
12:AK:14:GLN:HA	12:AK:76:TYR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:320:A:OP2	28:BC:130:LYS:HE3	2.10	0.51
22:B0:604:G:H2'	22:B0:605:G:C8	2.46	0.51
22:B0:686:U:H5'	22:B0:687:C:OP2	2.10	0.51
22:B0:807:U:H5'	22:B0:2445:G:H4'	1.93	0.51
22:B0:905:A:H2'	22:B0:906:U:H5'	1.91	0.51
22:B0:981:A:O2'	22:B0:2037:A:H5'	2.10	0.51
22:B0:1417:U:H5''	26:BA:100:ARG:HB2	1.93	0.51
22:B0:1430:G:H1	22:B0:1563:U:H3	1.58	0.51
22:B0:1464:G:C2'	22:B0:1465:U:H5'	2.41	0.51
22:B0:1495:A:H62	26:BA:142:ASN:CG	2.18	0.51
22:B0:1577:C:H2'	22:B0:1578:U:O4'	2.11	0.51
22:B0:1579:A:P	26:BA:66:PHE:N	2.80	0.51
22:B0:1600:C:OP1	42:BR:62:VAL:HB	2.11	0.51
22:B0:1644:C:O2'	22:B0:1645:G:H5'	2.11	0.51
22:B0:1816:C:C2	26:BA:51:ARG:HG2	2.45	0.51
22:B0:1931:U:O2	22:B0:1931:U:C2'	2.56	0.51
22:B0:2074:U:O2'	22:B0:2075:U:H5''	2.10	0.51
22:B0:2076:U:C5'	22:B0:2238:G:H1	2.21	0.51
22:B0:2169:A:C5'	22:B0:2170:A:OP2	2.50	0.51
22:B0:2180:U:H5''	22:B0:2181:U:OP2	2.11	0.51
22:B0:2194:U:H2'	22:B0:2195:U:C6	2.46	0.51
22:B0:2198:A:O2'	22:B0:2199:A:C5'	2.59	0.51
22:B0:2238:G:H5'	22:B0:2239:G:OP1	2.11	0.51
22:B0:2263:C:C6	45:BU:11:ASN:HB2	2.45	0.51
22:B0:2458:G:C5'	22:B0:2459:A:OP1	2.55	0.51
22:B0:2472:G:H21	22:B0:2478:A:H62	1.54	0.51
24:B2:5:LYS:C	24:B2:7:MET:N	2.68	0.51
28:BC:27:LEU:O	28:BC:30:GLN:HB3	2.11	0.51
29:BD:68:LYS:H	29:BD:68:LYS:CD	2.16	0.51
29:BD:114:ARG:HG3	29:BD:114:ARG:HH11	1.75	0.51
33:BH:25:LEU:HD22	33:BH:25:LEU:C	2.35	0.51
37:BL:38:LEU:N	37:BL:38:LEU:HD12	2.25	0.51
39:BN:25:VAL:HG13	39:BN:88:ARG:HD2	1.93	0.51
42:BR:12:ARG:HH11	42:BR:12:ARG:CA	2.24	0.51
42:BR:12:ARG:HH11	42:BR:12:ARG:CB	2.23	0.51
45:BU:45:HIS:CB	45:BU:79:ILE:HG21	2.27	0.51
1:AA:48:C:O2'	1:AA:49:U:OP1	2.27	0.51
1:AA:663:A:H61	1:AA:742:G:H1	1.57	0.51
1:AA:1399:C:H1'	1:AA:1401:G:C4	2.45	0.51
2:AV:29:A:H2'	2:AV:30:G:H8	1.76	0.51
4:AC:35:ASP:OD1	4:AC:56:ILE:HG21	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:54:LEU:C	5:AD:54:LEU:HD23	2.35	0.51
6:AE:140:ILE:HD12	6:AE:140:ILE:C	2.35	0.51
7:AF:86:ARG:HB3	7:AF:86:ARG:NH1	2.25	0.51
13:AL:43:LYS:HB3	13:AL:43:LYS:HZ3	1.75	0.51
17:AP:36:VAL:HG21	17:AP:57:ILE:HB	1.93	0.51
21:AT:28:ARG:HA	21:AT:31:ILE:CG2	2.41	0.51
22:B0:457:A:H1'	22:B0:459:U:C6	2.46	0.51
22:B0:610:C:O5'	22:B0:610:C:H6	1.94	0.51
22:B0:664:G:H4'	22:B0:940:G:O3'	2.11	0.51
22:B0:666:A:O2'	22:B0:667:U:H5'	2.10	0.51
22:B0:798:G:N1	22:B0:799:G:O6	2.44	0.51
22:B0:878:A:N1	22:B0:899:A:N1	2.59	0.51
22:B0:977:G:N2	22:B0:986:C:N3	2.59	0.51
22:B0:1186:G:N2	22:B0:1187:G:H1'	2.25	0.51
22:B0:1202:G:O4'	35:BJ:14:LYS:NZ	2.40	0.51
22:B0:1247:A:OP2	28:BC:91:ASP:OD2	2.28	0.51
22:B0:1258:U:H2'	22:B0:1259:G:H8	1.73	0.51
22:B0:1275:A:N6	22:B0:1296:G:H4'	2.25	0.51
22:B0:1296:G:H2'	22:B0:1297:C:C6	2.45	0.51
22:B0:1485:C:H2'	22:B0:1486:G:C8	2.46	0.51
22:B0:1579:A:C8	26:BA:65:ASP:C	2.88	0.51
22:B0:1631:G:H2'	22:B0:1633:G:OP2	2.10	0.51
22:B0:1791:A:N6	22:B0:1828:G:O2'	2.43	0.51
22:B0:1869:G:H2'	22:B0:1871:A:OP1	2.11	0.51
22:B0:2067:G:H5''	22:B0:2068:U:OP2	2.11	0.51
22:B0:2092:U:OP1	22:B0:2198:A:H2	1.94	0.51
22:B0:2296:U:H4'	22:B0:2297:A:OP1	2.11	0.51
22:B0:2323:G:N2	22:B0:2337:G:H5'	2.25	0.51
22:B0:2386:A:H2'	22:B0:2387:U:C6	2.46	0.51
22:B0:2598:A:C5	22:B0:2599:G:H1'	2.46	0.51
22:B0:2899:A:H61	33:BH:137:PRO:CA	2.22	0.51
23:B9:55:U:H4'	29:BD:24:VAL:HG11	1.91	0.51
26:BA:140:VAL:C	26:BA:141:HIS:HD2	2.18	0.51
27:BB:146:ILE:HG13	27:BB:155:VAL:HB	1.91	0.51
27:BB:155:VAL:HG11	27:BB:161:MET:HE1	1.93	0.51
27:BB:180:VAL:HG23	27:BB:180:VAL:O	2.11	0.51
28:BC:96:VAL:HG22	28:BC:97:ASN:ND2	2.25	0.51
29:BD:47:LYS:HB2	29:BD:47:LYS:NZ	2.26	0.51
29:BD:48:LEU:HA	29:BD:51:ASN:OD1	2.10	0.51
29:BD:53:ALA:H	29:BD:56:LEU:HD23	1.76	0.51
30:BE:66:THR:O	30:BE:70:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BF:82:SER:OG	31:BF:94:ILE:HD11	2.09	0.51
33:BH:113:PRO:O	33:BH:115:GLY:N	2.41	0.51
35:BJ:72:ALA:O	35:BJ:105:ILE:HG12	2.09	0.51
36:BK:59:ARG:NH1	36:BK:59:ARG:HB3	2.25	0.51
36:BK:115:GLU:O	36:BK:119:LEU:HG	2.11	0.51
38:BM:62:LEU:HD23	38:BM:62:LEU:C	2.35	0.51
40:BO:103:VAL:C	40:BO:105:PHE:H	2.18	0.51
41:BQ:51:LEU:CA	41:BQ:105:VAL:HG11	2.36	0.51
41:BQ:57:ASN:HA	41:BQ:60:HIS:CE1	2.45	0.51
1:AA:97:G:H2'	1:AA:98:A:O4'	2.11	0.51
1:AA:146:G:H2'	1:AA:147:G:C8	2.46	0.51
1:AA:901:A:H2'	1:AA:902:G:O4'	2.10	0.51
1:AA:945:G:H5''	1:AA:1338:G:O6	2.11	0.51
1:AA:1065:U:O2'	1:AA:1066:C:H6	1.93	0.51
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.75	0.51
1:AA:1266:G:N2	1:AA:1268:G:H3'	2.25	0.51
3:AB:36:LYS:CG	3:AB:37:VAL:H	2.17	0.51
4:AC:63:ILE:HG23	4:AC:65:VAL:HG23	1.93	0.51
6:AE:10:LEU:HD11	6:AE:38:VAL:HB	1.92	0.51
9:AH:20:ASN:HA	9:AH:64:TYR:CZ	2.46	0.51
11:AJ:17:LEU:HD12	11:AJ:18:ILE:HG13	1.92	0.51
22:B0:20:C:H2'	22:B0:21:A:C8	2.46	0.51
22:B0:79:C:H2'	22:B0:80:G:C8	2.46	0.51
22:B0:163:C:H4'	22:B0:164:C:H6	1.75	0.51
22:B0:163:C:C5'	22:B0:164:C:H5'	2.39	0.51
22:B0:221:A:O2'	22:B0:222:A:P	2.69	0.51
22:B0:589:U:C6	28:BC:47:LYS:HB2	2.45	0.51
22:B0:705:A:C2	22:B0:727:A:H1'	2.46	0.51
22:B0:918:A:C4'	23:B9:81:G:H4'	2.33	0.51
22:B0:1494:A:O3'	26:BA:140:VAL:HG11	2.11	0.51
22:B0:1582:C:H5	26:BA:73:ILE:HD13	1.76	0.51
22:B0:2127:G:O3'	22:B0:2165:C:C2'	2.45	0.51
22:B0:2648:G:H1'	22:B0:2673:G:N2	2.26	0.51
22:B0:2677:G:H3'	27:BB:125:TRP:HB2	1.91	0.51
22:B0:2779:U:O4'	22:B0:2781:A:H8	1.94	0.51
22:B0:2900:C:H41	33:BH:138:GLN:C	2.19	0.51
24:B2:29:LEU:HD11	24:B2:215:THR:HG23	1.93	0.51
24:B2:46:ASN:OD1	24:B2:209:LYS:HD2	2.11	0.51
25:B5:69:ILE:HG22	25:B5:73:ARG:HD2	1.91	0.51
26:BA:141:HIS:O	26:BA:142:ASN:C	2.53	0.51
26:BA:144:GLU:HG2	26:BA:151:GLY:H	1.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:94:ARG:HA	29:BD:94:ARG:CZ	2.41	0.51
32:BG:10:LEU:HG	32:BG:11:GLN:N	2.25	0.51
32:BG:81:LYS:O	32:BG:81:LYS:HG3	2.10	0.51
33:BH:34:ARG:HG3	33:BH:35:ARG:HH21	1.73	0.51
34:BI:19:VAL:HG11	34:BI:41:ILE:HG13	1.93	0.51
34:BI:49:ARG:HG3	34:BI:49:ARG:HH11	1.76	0.51
34:BI:51:LYS:HD2	34:BI:53:LYS:HD3	1.92	0.51
36:BK:35:ALA:HB1	36:BK:126:ILE:HD12	1.93	0.51
38:BM:88:LYS:HD2	38:BM:88:LYS:N	2.25	0.51
39:BN:24:THR:HA	39:BN:49:ILE:CG1	2.40	0.51
39:BN:50:ARG:O	39:BN:61:ARG:HB2	2.10	0.51
40:BO:59:LEU:HD23	40:BO:60:TRP:CZ3	2.45	0.51
41:BQ:48:LYS:HG3	41:BQ:49:LYS:NZ	2.25	0.51
41:BQ:74:ILE:N	41:BQ:74:ILE:CD1	2.74	0.51
49:B1:9:LYS:HD2	49:B1:9:LYS:N	2.23	0.51
1:AA:146:G:H2'	1:AA:147:G:H8	1.75	0.51
1:AA:177:G:C5'	21:AT:59:ARG:HH22	2.24	0.51
1:AA:250:A:H1'	1:AA:252:U:C5	2.45	0.51
3:AB:36:LYS:HG3	3:AB:37:VAL:N	2.14	0.51
3:AB:54:ALA:O	3:AB:58:LYS:HG2	2.10	0.51
4:AC:24:ASN:O	4:AC:28:PHE:HB2	2.11	0.51
4:AC:121:SER:O	4:AC:125:ARG:HG3	2.11	0.51
4:AC:129:PHE:HE2	4:AC:165:GLU:HB3	1.75	0.51
5:AD:204:SER:HB2	6:AE:111:ARG:CZ	2.41	0.51
6:AE:14:LEU:HD12	6:AE:14:LEU:N	2.25	0.51
6:AE:131:ASN:CB	6:AE:134:ASN:HD22	2.23	0.51
7:AF:75:GLU:HB3	7:AF:79:ARG:NH1	2.26	0.51
17:AP:18:GLN:O	17:AP:20:VAL:HG23	2.10	0.51
18:AQ:32:ILE:HD12	18:AQ:32:ILE:N	2.26	0.51
22:B0:92:U:H2'	22:B0:93:G:C8	2.46	0.51
22:B0:387:U:O2'	22:B0:388:G:P	2.69	0.51
22:B0:958:U:C5	36:BK:82:MET:N	2.78	0.51
22:B0:960:A:C3'	22:B0:2496:C:C6	2.94	0.51
22:B0:1044:C:H2'	22:B0:1045:C:H5''	1.92	0.51
22:B0:1352:U:H4'	22:B0:1571:A:O2'	2.10	0.51
22:B0:1470:A:H2'	22:B0:1471:C:C6	2.46	0.51
22:B0:1478:G:O2'	22:B0:1479:G:H5'	2.11	0.51
22:B0:1524:C:O2'	22:B0:1525:G:H5'	2.10	0.51
22:B0:1588:A:H2'	22:B0:1589:A:O4'	2.11	0.51
22:B0:2154:A:O5'	22:B0:2155:U:OP1	2.29	0.51
22:B0:2655:G:HO2'	22:B0:2656:U:H5	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:159:THR:O	26:BA:194:VAL:HG23	2.11	0.51
27:BB:86:GLU:C	27:BB:88:GLU:H	2.18	0.51
28:BC:102:ARG:O	28:BC:106:LYS:HD3	2.11	0.51
28:BC:112:LEU:HG	28:BC:118:LEU:HD21	1.91	0.51
28:BC:186:VAL:HG13	28:BC:187:VAL:N	2.25	0.51
29:BD:149:ARG:HD2	29:BD:150:GLY:N	2.26	0.51
30:BE:116:LEU:HD21	30:BE:120:ILE:HD13	1.92	0.51
33:BH:116:ARG:O	33:BH:116:ARG:HD3	2.11	0.51
37:BL:32:GLU:O	37:BL:114:GLU:HA	2.10	0.51
40:BO:41:ALA:C	40:BO:43:GLN:N	2.69	0.51
40:BO:109:VAL:O	40:BO:113:LYS:HD3	2.11	0.51
42:BR:62:VAL:CA	42:BR:81:LYS:HB3	2.37	0.51
44:BT:89:ILE:HD12	44:BT:89:ILE:N	2.26	0.51
47:BX:12:ALA:O	47:BX:15:ARG:HG2	2.11	0.51
1:AA:162:A:H2'	1:AA:163:C:O4'	2.09	0.51
1:AA:266:G:O2'	1:AA:268:U:OP2	2.29	0.51
1:AA:366:A:O2'	1:AA:367:U:P	2.69	0.51
1:AA:405:U:H4'	1:AA:499:A:C6	2.45	0.51
1:AA:419:C:C2'	5:AD:39:GLN:CB	2.89	0.51
1:AA:432:A:O2'	1:AA:433:G:H5'	2.11	0.51
1:AA:1429:A:O2'	22:B0:1704:C:H5'	2.11	0.51
2:AU:74:C:C2'	22:B0:2557:G:O5'	2.59	0.51
7:AF:68:GLN:OE1	7:AF:68:GLN:N	2.44	0.51
10:AI:64:ILE:HG21	10:AI:78:ILE:HG12	1.92	0.51
11:AJ:52:LEU:HA	11:AJ:62:ARG:H	1.75	0.51
12:AK:23:HIS:HB3	12:AK:30:ILE:CG2	2.40	0.51
14:AM:52:ILE:O	14:AM:56:ARG:HG3	2.11	0.51
17:AP:23:ASP:HB3	17:AP:26:ASN:ND2	2.26	0.51
17:AP:71:VAL:HG22	17:AP:75:ILE:HD11	1.92	0.51
22:B0:38:A:H2'	22:B0:39:G:C8	2.46	0.51
22:B0:58:G:OP1	42:BR:76:ARG:O	2.28	0.51
22:B0:70:G:H5''	22:B0:71:A:OP1	2.11	0.51
22:B0:120:U:H1'	22:B0:149:A:C5	2.45	0.51
22:B0:494:G:N9	41:BQ:6:LYS:HD2	2.26	0.51
22:B0:636:G:O2'	22:B0:638:G:H5'	2.11	0.51
22:B0:711:G:H2'	22:B0:712:G:C8	2.46	0.51
22:B0:828:U:H4'	22:B0:831:G:N1	2.25	0.51
22:B0:920:A:H2'	22:B0:921:C:O4'	2.10	0.51
22:B0:1417:U:H1'	22:B0:1587:A:O2'	2.10	0.51
22:B0:1436:G:H2'	22:B0:1437:C:O4'	2.10	0.51
22:B0:1463:G:H2'	22:B0:1464:G:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1815:A:H4'	22:B0:1816:C:O5'	2.09	0.51
22:B0:2155:U:H3'	22:B0:2156:G:H5''	1.93	0.51
22:B0:2233:U:H2'	22:B0:2234:G:H8	1.76	0.51
22:B0:2553:G:H1'	22:B0:2583:G:H5'	1.93	0.51
22:B0:2595:G:N3	22:B0:2597:G:N7	2.59	0.51
23:B9:66:A:O4'	23:B9:108:A:N6	2.44	0.51
24:B2:62:THR:HG21	24:B2:191:LEU:HD23	1.93	0.51
24:B2:76:VAL:HA	24:B2:114:ILE:O	2.11	0.51
25:B3:49:GLU:HA	25:B3:51:LYS:NZ	2.25	0.51
26:BA:98:GLY:O	26:BA:99:GLU:CB	2.58	0.51
30:BE:116:LEU:HD23	30:BE:116:LEU:C	2.36	0.51
31:BF:30:LEU:H	31:BF:30:LEU:CD1	2.23	0.51
34:BI:95:ILE:HD13	34:BI:95:ILE:C	2.35	0.51
35:BJ:56:PRO:HB2	35:BJ:59:ARG:HB3	1.92	0.51
36:BK:7:THR:O	36:BK:72:PRO:HG2	2.10	0.51
37:BL:8:ARG:C	37:BL:8:ARG:HE	2.19	0.51
37:BL:36:THR:N	37:BL:110:MET:SD	2.81	0.51
40:BO:38:VAL:O	40:BO:41:ALA:HB3	2.11	0.51
43:BS:51:LEU:HD12	43:BS:51:LEU:N	2.26	0.51
1:AA:419:C:O2'	5:AD:39:GLN:CG	2.59	0.51
1:AA:420:U:O4'	5:AD:39:GLN:HG2	2.11	0.51
1:AA:591:U:H2'	1:AA:592:G:H8	1.74	0.51
1:AA:1302:C:H5'	14:AM:16:ILE:HB	1.93	0.51
1:AA:1310:G:H1	1:AA:1327:C:H42	1.58	0.51
5:AD:33:ILE:HG13	5:AD:35:GLN:HG2	1.93	0.51
5:AD:47:LEU:O	5:AD:47:LEU:HD12	2.09	0.51
6:AE:71:ILE:C	6:AE:71:ILE:HD12	2.36	0.51
8:AG:110:ARG:HD3	8:AG:118:ARG:HA	1.93	0.51
14:AM:44:ILE:HD12	14:AM:44:ILE:C	2.36	0.51
22:B0:488:G:N2	41:BQ:9:HIS:CE1	2.79	0.51
22:B0:862:G:H2'	22:B0:863:A:O4'	2.11	0.51
22:B0:1632:A:N3	22:B0:1632:A:H2'	2.25	0.51
22:B0:2002:G:H2'	22:B0:2003:A:H8	1.76	0.51
22:B0:2005:A:H3'	22:B0:2006:C:H5	1.76	0.51
22:B0:2059:A:HO2'	22:B0:2060:A:P	2.33	0.51
22:B0:2106:U:H2'	22:B0:2107:G:C8	2.46	0.51
22:B0:2139:U:OP2	22:B0:2139:U:H3'	2.10	0.51
22:B0:2243:U:C5	22:B0:2437:G:N7	2.79	0.51
22:B0:2546:U:OP1	22:B0:2547:A:H5''	2.11	0.51
22:B0:2898:G:N7	33:BH:15:TRP:HB2	2.26	0.51
23:B9:13:G:H4'	23:B9:15:A:N6	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:90:C:H2'	23:B9:91:C:O4'	2.11	0.51
25:B3:23:ILE:HD12	25:B3:23:ILE:C	2.35	0.51
26:BA:153:LEU:O	26:BA:154:ALA:C	2.54	0.51
27:BB:182:ALA:HB3	27:BB:186:LEU:HG	1.92	0.51
28:BC:9:GLN:HG2	28:BC:9:GLN:O	2.10	0.51
29:BD:71:LYS:NZ	29:BD:81:GLY:H	2.09	0.51
30:BE:14:VAL:HG13	30:BE:25:ILE:HD11	1.92	0.51
32:BG:132:ALA:O	32:BG:133:ARG:HG2	2.10	0.51
33:BH:136:GLN:N	33:BH:137:PRO:CD	2.74	0.51
37:BL:84:GLY:HA2	37:BL:86:ARG:N	2.25	0.51
38:BM:6:ALA:O	38:BM:10:ARG:HG3	2.11	0.51
40:BO:75:TYR:CG	40:BO:76:SER:N	2.78	0.51
41:BQ:60:HIS:O	41:BQ:61:ASN:HB3	2.11	0.51
45:BU:3:LYS:H	45:BU:3:LYS:HD3	1.74	0.51
49:B1:8:ILE:O	49:B1:24:LYS:HA	2.11	0.51
1:AA:105:G:N7	21:AT:4:LYS:HD3	2.25	0.50
1:AA:115:G:O2'	1:AA:116:A:H8	1.92	0.50
1:AA:792:A:H4'	1:AA:793:U:C5'	2.42	0.50
1:AA:848:C:H2'	1:AA:849:G:C8	2.47	0.50
1:AA:1157:A:H1'	1:AA:1181:G:C2	2.45	0.50
10:AI:34:LEU:H	10:AI:34:LEU:CD1	2.19	0.50
21:AT:38:ILE:HG21	21:AT:82:ILE:HA	1.92	0.50
22:B0:181:A:H2'	22:B0:182:A:C8	2.46	0.50
22:B0:320:A:H4'	22:B0:322:A:C8	2.46	0.50
22:B0:599:A:H2	28:BC:99:LYS:HD3	1.76	0.50
22:B0:655:A:C4'	22:B0:656:G:OP1	2.59	0.50
22:B0:959:A:O4'	36:BK:80:VAL:CG1	2.59	0.50
22:B0:1001:A:H61	22:B0:1154:G:H1'	1.76	0.50
22:B0:1020:A:H4'	22:B0:1021:A:O4'	2.11	0.50
22:B0:1116:G:H2'	22:B0:1117:C:C6	2.46	0.50
22:B0:1118:C:H2'	22:B0:1119:U:C6	2.47	0.50
22:B0:1324:G:H1	22:B0:1330:C:H42	1.59	0.50
22:B0:1697:G:N1	22:B0:1698:A:N6	2.59	0.50
22:B0:1900:A:H5'	22:B0:1970:A:OP1	2.11	0.50
22:B0:1923:U:H2'	22:B0:1924:C:H6	1.75	0.50
22:B0:2162:G:O5'	22:B0:2163:G:OP2	2.29	0.50
22:B0:2556:C:O5'	22:B0:2556:C:H6	1.93	0.50
22:B0:2877:G:H2'	22:B0:2878:U:O4'	2.11	0.50
25:B5:54:PHE:O	25:B5:103:ALA:HB2	2.10	0.50
28:BC:87:ALA:O	28:BC:88:ARG:CB	2.58	0.50
28:BC:108:ILE:CD1	28:BC:180:LEU:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:59:ILE:H	29:BD:59:ILE:CD1	2.24	0.50
30:BE:70:LEU:O	30:BE:74:MET:HG3	2.11	0.50
32:BG:108:ILE:CG1	32:BG:128:ILE:HD13	2.41	0.50
32:BG:121:ILE:HD13	32:BG:121:ILE:N	2.20	0.50
33:BH:100:VAL:HG13	33:BH:101:ILE:HG13	1.93	0.50
33:BH:110:PRO:HD2	33:BH:113:PRO:HB2	1.93	0.50
42:BR:39:THR:C	42:BR:40:LYS:HE3	2.36	0.50
1:AA:153:C:H42	1:AA:168:G:H1	1.60	0.50
1:AA:247:G:H2'	1:AA:248:C:H6	1.75	0.50
1:AA:766:A:H2'	1:AA:767:A:O4'	2.11	0.50
1:AA:772:U:H2'	1:AA:773:G:C8	2.46	0.50
1:AA:967:C:N3	1:AA:968:A:N6	2.59	0.50
1:AA:1234:C:H2'	1:AA:1235:U:H6	1.76	0.50
2:AU:75:C:H5'	22:B0:2557:G:OP2	2.11	0.50
2:AW:18:G:H1'	2:AW:57:G:N2	2.27	0.50
3:AB:100:LEU:N	3:AB:100:LEU:HD12	2.27	0.50
4:AC:152:VAL:HG13	4:AC:195:ILE:CD1	2.41	0.50
6:AE:139:THR:O	6:AE:143:LEU:HG	2.11	0.50
8:AG:35:LYS:HE2	10:AI:42:THR:H	1.75	0.50
10:AI:7:GLY:HA3	10:AI:81:GLY:O	2.11	0.50
11:AJ:52:LEU:HD12	11:AJ:52:LEU:N	2.26	0.50
15:AN:66:THR:HB	15:AN:82:LYS:CE	2.42	0.50
16:AO:42:PHE:CZ	16:AO:52:ARG:HA	2.45	0.50
17:AP:57:ILE:HG12	17:AP:61:VAL:HG23	1.93	0.50
21:AT:63:LYS:N	21:AT:63:LYS:HD2	2.25	0.50
22:B0:377:G:H1	22:B0:397:U:H3	1.58	0.50
22:B0:390:U:H1'	22:B0:411:G:O2'	2.12	0.50
22:B0:455:C:H2'	22:B0:472:A:C2	2.46	0.50
22:B0:479:A:H3'	22:B0:480:A:H5''	1.93	0.50
22:B0:549:G:H5''	22:B0:550:C:C5	2.45	0.50
22:B0:610:C:H2'	22:B0:611:C:C6	2.46	0.50
22:B0:629:G:H21	22:B0:639:U:H5''	1.76	0.50
22:B0:655:A:H5''	22:B0:656:G:OP1	2.11	0.50
22:B0:696:G:H1	22:B0:766:U:H3	1.58	0.50
22:B0:866:A:N3	22:B0:912:C:H1'	2.26	0.50
22:B0:977:G:H1	22:B0:986:C:H42	1.59	0.50
22:B0:982:C:O2'	22:B0:983:A:H5''	2.11	0.50
22:B0:1154:G:O5'	22:B0:1154:G:H8	1.93	0.50
22:B0:1423:A:C2	22:B0:1576:U:H1'	2.47	0.50
22:B0:1587:A:H2'	22:B0:1588:A:C8	2.45	0.50
22:B0:1872:A:H2	22:B0:2412:A:H5'	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2099:U:H2'	22:B0:2100:G:C8	2.46	0.50
22:B0:2123:G:C4'	22:B0:2124:G:O5'	2.60	0.50
22:B0:2180:U:O2	22:B0:2180:U:H2'	2.11	0.50
22:B0:2208:C:H2'	22:B0:2209:G:H8	1.75	0.50
22:B0:2291:U:H2'	22:B0:2292:U:C6	2.46	0.50
22:B0:2292:U:H2'	22:B0:2293:G:H8	1.76	0.50
22:B0:2680:U:C5'	27:BB:114:LYS:HE2	2.29	0.50
22:B0:2816:G:H4'	48:BZ:51:ARG:NH2	2.23	0.50
23:B9:91:C:O5'	23:B9:91:C:H6	1.95	0.50
24:B2:160:VAL:O	24:B2:160:VAL:HG13	2.11	0.50
25:B3:51:LYS:HG3	25:B3:52:THR:N	2.27	0.50
29:BD:65:LEU:H	29:BD:88:VAL:CG2	2.24	0.50
33:BH:20:ALA:HA	33:BH:23:LYS:HZ1	1.75	0.50
39:BN:47:ILE:HA	39:BN:63:ILE:O	2.12	0.50
1:AA:220:G:O2'	1:AA:221:C:H5'	2.11	0.50
1:AA:328:C:O2'	1:AA:329:A:P	2.69	0.50
1:AA:545:C:H4'	1:AA:549:C:H5'	1.92	0.50
1:AA:654:G:N1	1:AA:753:A:H1'	2.26	0.50
1:AA:688:G:O2'	1:AA:689:C:H5'	2.11	0.50
1:AA:976:G:H22	1:AA:1362:A:H5''	1.75	0.50
1:AA:1468:A:H3'	1:AA:1469:C:C6	2.46	0.50
1:AA:1493:A:C2	2:AU:37:G:H4'	2.47	0.50
4:AC:107:LYS:HB3	4:AC:143:LEU:CD2	2.41	0.50
5:AD:89:LEU:O	5:AD:93:LEU:HD13	2.11	0.50
7:AF:6:ILE:HD12	7:AF:89:VAL:HG12	1.92	0.50
19:AR:41:SER:HA	19:AR:44:THR:CG2	2.40	0.50
20:AS:65:MET:HE3	20:AS:73:PHE:CD2	2.46	0.50
22:B0:588:U:H5'	28:BC:43:THR:HG23	1.93	0.50
22:B0:664:G:O2'	22:B0:665:U:H5'	2.11	0.50
22:B0:1204:A:N1	22:B0:1241:A:N1	2.60	0.50
22:B0:1248:G:H1'	40:BO:2:ARG:HD2	1.94	0.50
22:B0:1275:A:H61	22:B0:1296:G:H4'	1.76	0.50
22:B0:1416:G:O2'	22:B0:1587:A:N3	2.41	0.50
22:B0:1488:G:C6	26:BA:159:THR:HB	2.47	0.50
22:B0:1601:G:H2'	22:B0:1602:U:O4'	2.11	0.50
22:B0:1783:A:N1	22:B0:2587:A:H2'	2.26	0.50
22:B0:2143:C:O2'	22:B0:2144:G:P	2.69	0.50
22:B0:2756:U:C2'	22:B0:2757:A:H5''	2.41	0.50
26:BA:188:ARG:O	26:BA:189:ALA:HB2	2.11	0.50
27:BB:137:SER:C	27:BB:139:SER:N	2.60	0.50
28:BC:43:THR:HG22	28:BC:90:GLN:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:8:VAL:C	30:BE:48:THR:HG23	2.35	0.50
31:BF:94:ILE:HG22	31:BF:99:ILE:CD1	2.41	0.50
34:BI:58:LEU:HD12	34:BI:58:LEU:N	2.27	0.50
35:BJ:90:VAL:HG13	35:BJ:90:VAL:O	2.11	0.50
35:BJ:103:ILE:HD12	35:BJ:105:ILE:CG2	2.41	0.50
36:BK:84:LYS:HD3	36:BK:84:LYS:C	2.36	0.50
38:BM:97:PHE:HE2	38:BM:101:GLY:HA3	1.76	0.50
39:BN:65:ASN:N	39:BN:71:ARG:HG2	2.26	0.50
42:BR:50:LEU:HD13	46:BW:26:PHE:CD2	2.46	0.50
45:BU:71:LYS:HD2	45:BU:71:LYS:N	2.17	0.50
47:BX:50:VAL:O	47:BX:54:VAL:HG22	2.11	0.50
1:AA:185:U:H2'	1:AA:186:C:C6	2.47	0.50
1:AA:242:G:C2'	1:AA:243:A:H5'	2.41	0.50
1:AA:404:G:H5''	1:AA:547:A:OP2	2.11	0.50
1:AA:424:G:C2	5:AD:39:GLN:NE2	2.79	0.50
1:AA:508:U:H4'	1:AA:509:A:C8	2.45	0.50
1:AA:927:G:H2'	1:AA:928:G:C8	2.47	0.50
1:AA:1263:C:H2'	1:AA:1264:U:C6	2.45	0.50
1:AA:1385:G:H2'	10:AI:128:LYS:HZ3	1.75	0.50
2:AU:7:U:H5''	2:AU:8:U:OP1	2.11	0.50
2:AU:36:A:C3'	2:AU:37:G:H5''	2.41	0.50
2:AU:75:C:OP2	22:B0:2557:G:C8	2.65	0.50
2:AV:69:U:H2'	2:AV:70:C:C6	2.46	0.50
3:AB:116:LEU:CB	3:AB:140:LEU:HD21	2.42	0.50
3:AB:147:LEU:HA	3:AB:150:ILE:HG22	1.92	0.50
4:AC:107:LYS:HD2	4:AC:107:LYS:N	2.26	0.50
4:AC:128:MET:HB2	4:AC:131:ARG:HD3	1.93	0.50
6:AE:156:ARG:HG2	9:AH:70:VAL:HA	1.91	0.50
10:AI:84:ARG:HA	10:AI:87:MET:SD	2.50	0.50
11:AJ:89:ARG:HB3	11:AJ:89:ARG:HH11	1.72	0.50
15:AN:80:ARG:O	15:AN:84:ARG:HG2	2.12	0.50
22:B0:347:A:H8	22:B0:347:A:O5'	1.95	0.50
22:B0:501:A:O2'	22:B0:502:A:OP1	2.29	0.50
22:B0:960:A:C2	22:B0:2497:A:O4'	2.63	0.50
22:B0:1202:G:H5''	35:BJ:10:GLU:HG3	1.94	0.50
22:B0:1299:G:H5'	22:B0:1301:A:H1'	1.94	0.50
22:B0:1455:U:H2'	37:BL:63:ARG:NH1	2.27	0.50
22:B0:1497:U:H4'	26:BA:83:ASP:OD2	2.11	0.50
22:B0:1921:G:H2'	22:B0:1922:G:H8	1.77	0.50
22:B0:1942:C:H6	22:B0:1942:C:O5'	1.94	0.50
22:B0:2176:A:H5'	24:B2:166:LYS:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2176:A:OP1	24:B2:166:LYS:C	2.55	0.50
22:B0:2470:G:H2'	22:B0:2471:A:C8	2.42	0.50
22:B0:2506:U:N3	22:B0:2583:G:N2	2.59	0.50
22:B0:2857:G:O2'	22:B0:2859:A:N7	2.40	0.50
22:B0:2898:G:N7	33:BH:15:TRP:CB	2.74	0.50
25:B5:57:ILE:HG23	25:B5:92:ALA:CB	2.42	0.50
25:B5:66:VAL:O	25:B5:70:LYS:HG3	2.11	0.50
26:BA:67:LYS:HZ2	26:BA:147:PRO:HB2	1.76	0.50
27:BB:207:VAL:HG23	27:BB:208:LYS:HG2	1.92	0.50
28:BC:157:LEU:H	28:BC:157:LEU:CD2	2.25	0.50
28:BC:178:VAL:CG1	28:BC:179:SER:H	2.11	0.50
30:BE:86:LEU:HD22	30:BE:147:LEU:HD23	1.92	0.50
30:BE:102:ILE:HD12	30:BE:102:ILE:C	2.37	0.50
31:BF:6:LEU:HD22	31:BF:14:SER:HA	1.92	0.50
31:BF:7:ASP:OD1	31:BF:35:LYS:HA	2.11	0.50
35:BJ:96:LYS:HD3	35:BJ:96:LYS:N	2.27	0.50
36:BK:7:THR:OG1	36:BK:8:LYS:HD3	2.11	0.50
36:BK:92:TRP:CE3	36:BK:92:TRP:N	2.80	0.50
37:BL:41:ALA:CB	37:BL:44:LEU:HB2	2.41	0.50
37:BL:89:SER:O	37:BL:90:ARG:HD2	2.11	0.50
39:BN:9:GLN:HA	39:BN:14:GLN:HE22	1.76	0.50
39:BN:63:ILE:HG12	39:BN:74:GLN:HG2	1.93	0.50
40:BO:26:ALA:C	40:BO:28:SER:H	2.20	0.50
40:BO:82:LEU:HD21	40:BO:89:ILE:HG22	1.93	0.50
49:B1:26:LYS:N	49:B1:26:LYS:HD2	2.27	0.50
1:AA:891:U:O2'	1:AA:892:A:H5'	2.11	0.50
1:AA:976:G:N2	1:AA:1362:A:H5''	2.27	0.50
1:AA:1241:G:C2	1:AA:1242:G:O4'	2.64	0.50
1:AA:1248:A:C2	1:AA:1289:A:N6	2.79	0.50
1:AA:1268:G:N3	1:AA:1326:U:O2'	2.39	0.50
1:AA:1302:C:O4'	14:AM:26:LYS:NZ	2.44	0.50
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.46	0.50
1:AA:1408:A:H2'	1:AA:1409:C:C6	2.46	0.50
2:AW:3:G:H2'	2:AW:4:G:C8	2.46	0.50
7:AF:42:TRP:HB3	7:AF:45:ARG:HD2	1.94	0.50
8:AG:35:LYS:HE2	10:AI:42:THR:N	2.26	0.50
8:AG:135:LYS:HD2	8:AG:135:LYS:C	2.37	0.50
18:AQ:37:ILE:HD12	18:AQ:39:ARG:NH1	2.27	0.50
22:B0:85:G:O2'	22:B0:86:G:H5'	2.12	0.50
22:B0:404:A:H1'	22:B0:406:G:C5	2.46	0.50
22:B0:801:G:H1	28:BC:72:SER:CB	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:924:G:H5'	45:BU:22:VAL:HG11	1.93	0.50
22:B0:1213:A:N1	22:B0:1237:A:H1'	2.27	0.50
22:B0:1235:G:H2'	22:B0:1236:G:O4'	2.12	0.50
22:B0:1550:C:H2'	22:B0:1551:A:C8	2.46	0.50
22:B0:1801:A:N6	22:B0:2223:G:H1'	2.26	0.50
22:B0:2894:U:C6	33:BH:9:GLU:HB2	2.46	0.50
23:B9:101:A:H2'	23:B9:102:G:C8	2.47	0.50
29:BD:166:ARG:HA	29:BD:166:ARG:HE	1.77	0.50
33:BH:15:TRP:CE3	33:BH:15:TRP:N	2.80	0.50
33:BH:37:ARG:HA	33:BH:50:THR:HG21	1.94	0.50
40:BO:12:ARG:HB3	40:BO:12:ARG:HH11	1.75	0.50
41:BQ:56:ALA:C	41:BQ:58:ALA:N	2.69	0.50
42:BR:63:VAL:HG22	42:BR:64:LYS:H	1.76	0.50
43:BS:42:LYS:HD2	43:BS:48:VAL:HB	1.94	0.50
45:BU:33:GLY:HA3	45:BU:67:LYS:HD2	1.93	0.50
45:BU:77:LYS:HB3	45:BU:77:LYS:HZ3	1.76	0.50
1:AA:340:U:OP1	34:BI:97:THR:HG21	2.11	0.50
1:AA:718:A:C8	12:AK:117:HIS:HA	2.46	0.50
1:AA:960:U:O2'	1:AA:961:U:P	2.69	0.50
1:AA:1441:A:H4'	1:AA:1442:G:C5	2.46	0.50
2:AU:16:U:C5'	2:AU:17:U:OP1	2.56	0.50
2:AU:58:A:C4'	2:AU:59:U:OP1	2.44	0.50
2:AW:70:C:H2'	2:AW:71:G:C8	2.47	0.50
5:AD:57:LYS:HB3	5:AD:199:ILE:HG13	1.93	0.50
7:AF:14:GLN:NE2	7:AF:17:GLN:HB2	2.27	0.50
17:AP:12:LYS:H	17:AP:12:LYS:CD	2.23	0.50
22:B0:40:U:H2'	22:B0:41:C:C6	2.46	0.50
22:B0:669:G:N2	28:BC:74:LYS:CB	2.69	0.50
22:B0:1011:G:O2'	22:B0:1012:U:P	2.70	0.50
22:B0:1059:G:H2'	22:B0:1060:U:C6	2.47	0.50
22:B0:1405:U:H2'	22:B0:1406:U:C6	2.47	0.50
22:B0:1497:U:H1'	26:BA:83:ASP:HB2	1.92	0.50
22:B0:2160:C:H6	22:B0:2161:C:O3'	1.94	0.50
22:B0:2198:A:O2'	22:B0:2199:A:P	2.69	0.50
22:B0:2287:A:O2'	22:B0:2288:A:P	2.69	0.50
22:B0:2296:U:C4'	22:B0:2297:A:OP1	2.60	0.50
22:B0:2745:C:H2'	22:B0:2746:U:C6	2.46	0.50
27:BB:5:VAL:CG2	27:BB:202:ILE:HG22	2.41	0.50
27:BB:131:ASP:OD1	27:BB:132:ALA:N	2.45	0.50
33:BH:16:TYR:HB2	33:BH:52:ASP:OD2	2.11	0.50
33:BH:99:ARG:HH22	33:BH:102:GLU:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:110:MET:HE3	37:BL:111:ALA:C	2.36	0.50
42:BR:95:PHE:N	42:BR:95:PHE:CD1	2.79	0.50
44:BT:73:LYS:NZ	44:BT:94:ALA:HB2	2.27	0.50
47:BX:16:LEU:HD22	47:BX:16:LEU:N	2.26	0.50
49:B1:10:LEU:N	49:B1:10:LEU:HD23	2.26	0.50
1:AA:346:G:C2'	1:AA:347:G:H5'	2.42	0.50
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.47	0.50
2:AW:55:U:O2	2:AW:55:U:C2'	2.59	0.50
3:AB:96:LEU:HD22	3:AB:96:LEU:N	2.26	0.50
4:AC:129:PHE:CE2	4:AC:152:VAL:HB	2.46	0.50
5:AD:82:LYS:HD2	5:AD:82:LYS:C	2.37	0.50
11:AJ:22:THR:O	11:AJ:26:VAL:HG23	2.12	0.50
13:AL:98:ARG:HG2	13:AL:103:CYS:SG	2.51	0.50
16:AO:38:LEU:HD12	16:AO:58:MET:SD	2.52	0.50
21:AT:56:ILE:O	21:AT:60:GLN:HG3	2.12	0.50
22:B0:18:U:H2'	22:B0:19:A:H8	1.77	0.50
22:B0:301:G:H4'	22:B0:302:C:H5''	1.94	0.50
22:B0:358:U:H2'	22:B0:359:G:C8	2.46	0.50
22:B0:673:C:OP2	28:BC:65:THR:HG21	2.12	0.50
22:B0:731:C:H2'	22:B0:732:C:C6	2.43	0.50
22:B0:958:U:H3'	36:BK:80:VAL:CB	2.41	0.50
22:B0:1344:U:H5''	22:B0:1345:C:OP2	2.12	0.50
22:B0:1416:G:O6	26:BA:93:VAL:HG23	2.11	0.50
22:B0:1421:G:O4'	26:BA:146:LYS:HD3	2.12	0.50
22:B0:1490:C:H4'	26:BA:162:GLN:H	1.77	0.50
22:B0:1491:A:OP2	26:BA:175:LEU:C	2.55	0.50
22:B0:1496:A:H62	26:BA:194:VAL:CG1	2.24	0.50
22:B0:2004:G:H2'	22:B0:2005:A:C8	2.47	0.50
22:B0:2698:U:H2'	22:B0:2699:C:C6	2.47	0.50
26:BA:40:GLY:HA2	26:BA:45:ASN:HD22	1.77	0.50
26:BA:152:GLN:HB3	26:BA:155:ARG:NH2	2.27	0.50
27:BB:22:ILE:HG21	27:BB:190:LYS:NZ	2.23	0.50
28:BC:159:LEU:O	28:BC:161:ALA:N	2.45	0.50
29:BD:163:GLU:C	29:BD:165:GLY:N	2.68	0.50
30:BE:57:TYR:HD1	30:BE:57:TYR:H	1.59	0.50
30:BE:85:LYS:HD3	30:BE:131:VAL:HG12	1.94	0.50
32:BG:123:ALA:HA	32:BG:126:ARG:HG2	1.93	0.50
33:BH:96:ARG:HB3	33:BH:97:PRO:C	2.37	0.50
33:BH:105:VAL:HG22	33:BH:105:VAL:O	2.11	0.50
36:BK:59:ARG:HB3	36:BK:59:ARG:HH11	1.77	0.50
39:BN:2:ASN:CB	39:BN:5:LYS:HZ3	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:49:ARG:HG3	40:BO:50:ARG:H	1.76	0.50
41:BQ:50:VAL:C	41:BQ:52:GLU:N	2.63	0.50
42:BR:43:ILE:HG21	42:BR:83:ALA:HB3	1.93	0.50
46:BW:31:GLN:HG2	46:BW:38:GLN:CG	2.40	0.50
1:AA:177:G:H5''	21:AT:59:ARG:NH2	2.26	0.50
1:AA:572:A:H1'	1:AA:917:G:H1'	1.93	0.50
1:AA:580:C:O2'	16:AO:57:ARG:NE	2.44	0.50
1:AA:813:U:H2'	1:AA:814:A:H8	1.76	0.50
1:AA:1009:U:H5''	15:AN:64:ARG:NH1	2.27	0.50
1:AA:1089:G:N2	1:AA:1167:A:N6	2.59	0.50
1:AA:1289:A:H2'	1:AA:1290:G:O4'	2.12	0.50
1:AA:1313:U:H2'	1:AA:1314:C:O4'	2.11	0.50
1:AA:1330:U:OP1	14:AM:21:ILE:O	2.29	0.50
1:AA:1346:A:O2'	1:AA:1347:G:P	2.70	0.50
2:AU:60:C:H5''	2:AU:61:C:OP2	2.11	0.50
10:AI:27:ILE:N	10:AI:34:LEU:HD11	2.17	0.50
10:AI:34:LEU:HD12	10:AI:34:LEU:N	2.21	0.50
14:AM:97:ARG:HD3	14:AM:99:GLN:OE1	2.12	0.50
22:B0:28:A:H62	22:B0:512:G:H1'	1.75	0.50
22:B0:48:G:O2'	22:B0:49:A:H5''	2.12	0.50
22:B0:119:A:H5'	22:B0:120:U:OP1	2.12	0.50
22:B0:120:U:H4'	22:B0:121:G:C5'	2.42	0.50
22:B0:383:C:O2	22:B0:391:A:N1	2.45	0.50
22:B0:825:A:C4'	35:BJ:57:LEU:HD21	2.42	0.50
22:B0:978:G:H4'	22:B0:1002:G:O2'	2.12	0.50
22:B0:1204:A:P	28:BC:166:LYS:HZ3	2.34	0.50
22:B0:1219:U:H2'	22:B0:1220:G:H8	1.77	0.50
22:B0:1342:A:O2'	22:B0:1343:G:P	2.69	0.50
22:B0:1417:U:O2	26:BA:97:ASP:O	2.30	0.50
22:B0:1931:U:H2'	22:B0:1932:A:C5'	2.38	0.50
22:B0:2121:G:H5''	22:B0:2122:U:OP1	2.11	0.50
22:B0:2129:C:H5'	22:B0:2130:U:OP2	2.12	0.50
22:B0:2643:G:O3'	27:BB:158:GLY:HA2	2.12	0.50
22:B0:2772:C:OP1	27:BB:169:ARG:HB3	2.12	0.50
22:B0:2879:A:O2'	22:B0:2881:U:H5	1.94	0.50
22:B0:2886:A:H2'	22:B0:2887:A:C8	2.46	0.50
27:BB:9:VAL:HG22	27:BB:28:GLU:HG3	1.93	0.50
27:BB:184:ARG:O	27:BB:186:LEU:HG	2.11	0.50
29:BD:7:TYR:HA	29:BD:11:VAL:HG12	1.94	0.50
32:BG:11:GLN:HE21	32:BG:55:PRO:HB3	1.75	0.50
33:BH:16:TYR:CE1	33:BH:35:ARG:HB3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:54:ILE:HG12	33:BH:122:LEU:HB2	1.93	0.50
36:BK:20:LEU:H	36:BK:20:LEU:CD1	2.25	0.50
36:BK:95:LEU:HD12	36:BK:95:LEU:N	2.27	0.50
39:BN:43:GLU:HG3	39:BN:44:GLY:N	2.27	0.50
42:BR:7:LEU:HD12	42:BR:7:LEU:N	2.27	0.50
1:AA:9:G:H2'	1:AA:10:A:C8	2.47	0.50
1:AA:417:G:C2	1:AA:427:U:O2	2.65	0.50
1:AA:705:G:H2'	1:AA:706:A:C8	2.47	0.50
1:AA:860:A:H2'	1:AA:861:G:O4'	2.11	0.50
1:AA:1129:C:H5''	1:AA:1139:G:O6	2.12	0.50
1:AA:1242:G:O2'	1:AA:1243:C:H5'	2.12	0.50
1:AA:1420:U:H2'	1:AA:1421:G:H8	1.76	0.50
4:AC:110:LEU:O	4:AC:201:ILE:HG21	2.12	0.50
5:AD:12:ARG:NH2	5:AD:37:PRO:HB3	2.26	0.50
10:AI:11:ARG:NH1	10:AI:106:ASP:HB3	2.27	0.50
11:AJ:80:THR:HG22	11:AJ:81:GLU:N	2.27	0.50
13:AL:85:ARG:NH1	13:AL:87:LYS:HA	2.27	0.50
20:AS:41:PRO:O	20:AS:44:ILE:HG22	2.11	0.50
21:AT:10:ALA:O	21:AT:14:GLU:HG2	2.12	0.50
22:B0:126:A:H4'	22:B0:128:C:C5	2.46	0.50
22:B0:431:U:H2'	22:B0:432:A:H5'	1.93	0.50
22:B0:582:A:H2'	22:B0:583:G:C8	2.47	0.50
22:B0:800:A:C8	22:B0:802:A:O4'	2.64	0.50
22:B0:919:U:H2'	22:B0:920:A:C8	2.47	0.50
22:B0:960:A:H3'	22:B0:2496:C:C5'	2.42	0.50
22:B0:960:A:C5'	22:B0:2496:C:H6	2.25	0.50
22:B0:987:C:H2'	22:B0:988:A:O4'	2.12	0.50
22:B0:1001:A:H61	22:B0:1154:G:C2'	2.25	0.50
22:B0:1202:G:H5''	35:BJ:10:GLU:CG	2.42	0.50
22:B0:1395:A:H4'	22:B0:1397:U:C5	2.47	0.50
22:B0:1703:G:H2'	22:B0:1704:C:C6	2.47	0.50
22:B0:1996:C:OP1	27:BB:139:SER:HB2	2.12	0.50
22:B0:2125:G:OP1	22:B0:2172:U:H5	1.94	0.50
22:B0:2161:C:C4	24:B2:6:ARG:HB3	2.46	0.50
22:B0:2214:C:H2'	22:B0:2215:C:H5'	1.92	0.50
22:B0:2344:U:H5''	22:B0:2373:G:H4'	1.94	0.50
22:B0:2463:C:H2'	22:B0:2464:G:H8	1.77	0.50
22:B0:2848:G:OP2	39:BN:95:LYS:HD2	2.12	0.50
28:BC:35:TYR:O	28:BC:36:ALA:C	2.54	0.50
28:BC:63:LYS:HB2	28:BC:63:LYS:HZ3	1.76	0.50
28:BC:139:LYS:HD2	28:BC:139:LYS:C	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:86:LEU:HD13	30:BE:132:LEU:HD13	1.93	0.50
34:BI:42:THR:HG23	34:BI:42:THR:O	2.11	0.50
35:BJ:85:VAL:HG22	35:BJ:85:VAL:O	2.12	0.50
35:BJ:129:LYS:HD2	35:BJ:129:LYS:C	2.36	0.50
37:BL:99:LYS:HB3	48:BZ:52:LYS:HD2	1.94	0.50
40:BO:53:LYS:O	40:BO:54:ARG:HB2	2.11	0.50
41:BQ:76:VAL:HG12	41:BQ:102:HIS:O	2.12	0.50
43:BS:13:LEU:HD11	43:BS:70:ALA:HB2	1.92	0.50
45:BU:70:VAL:HG23	45:BU:71:LYS:N	2.27	0.50
46:BW:55:THR:O	46:BW:59:GLU:HG3	2.12	0.50
1:AA:340:U:H2'	1:AA:341:C:C6	2.47	0.49
1:AA:722:G:O2'	1:AA:723:U:H5''	2.12	0.49
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.12	0.49
2:AV:55:U:O2	2:AV:55:U:H3'	2.11	0.49
5:AD:97:LEU:O	5:AD:101:VAL:HG23	2.12	0.49
5:AD:205:LYS:C	5:AD:205:LYS:HE2	2.37	0.49
7:AF:37:HIS:HB2	7:AF:63:ASN:OD1	2.12	0.49
22:B0:336:C:H2'	22:B0:337:C:C6	2.47	0.49
22:B0:489:G:H2'	22:B0:490:C:C6	2.47	0.49
22:B0:527:C:N4	22:B0:2781:A:C6	2.80	0.49
22:B0:808:G:O2'	22:B0:809:G:H5'	2.11	0.49
22:B0:856:G:H4'	45:BU:54:ARG:NE	2.26	0.49
22:B0:871:U:H4'	36:BK:16:ARG:HE	1.77	0.49
22:B0:926:G:O2'	22:B0:928:A:OP1	2.19	0.49
22:B0:1221:C:H2'	22:B0:1222:U:C6	2.46	0.49
22:B0:1314:C:O5'	22:B0:1314:C:H6	1.94	0.49
22:B0:1407:G:H2'	22:B0:1408:G:C8	2.46	0.49
22:B0:1678:A:H2'	22:B0:1679:A:C8	2.46	0.49
22:B0:1837:C:H1'	22:B0:1904:G:N2	2.27	0.49
22:B0:2596:U:H2'	22:B0:2597:G:H5'	1.94	0.49
22:B0:2677:G:H2'	27:BB:125:TRP:HB3	1.93	0.49
26:BA:62:ARG:NH2	26:BA:149:LYS:NZ	2.59	0.49
28:BC:7:ASP:CG	28:BC:8:ALA:H	2.19	0.49
28:BC:45:ALA:HB3	28:BC:89:PRO:HB3	1.93	0.49
29:BD:16:MET:O	29:BD:16:MET:HG2	2.11	0.49
33:BH:46:PRO:O	33:BH:47:HIS:HB2	2.11	0.49
35:BJ:9:ALA:O	35:BJ:10:GLU:HB2	2.12	0.49
35:BJ:94:THR:N	35:BJ:96:LYS:HE2	2.27	0.49
35:BJ:124:GLY:O	35:BJ:125:LEU:CB	2.60	0.49
35:BJ:134:ALA:O	35:BJ:136:GLU:N	2.45	0.49
36:BK:65:ILE:HD12	36:BK:102:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BM:31:THR:C	38:BM:33:ARG:H	2.19	0.49
40:BO:54:ARG:N	40:BO:57:ARG:HG3	2.23	0.49
40:BO:99:VAL:HG13	40:BO:100:PHE:HD1	1.76	0.49
45:BU:9:THR:HG22	45:BU:10:ARG:N	2.27	0.49
1:AA:293:G:C2	1:AA:305:G:H1'	2.47	0.49
1:AA:560:A:C4	1:AA:566:G:H1'	2.47	0.49
1:AA:939:G:H2'	1:AA:940:C:C6	2.47	0.49
1:AA:1097:C:H1'	1:AA:1167:A:C2	2.47	0.49
1:AA:1268:G:H22	1:AA:1311:A:H2	1.58	0.49
1:AA:1343:G:O2'	1:AA:1344:C:H5'	2.11	0.49
2:AV:60:C:H5''	2:AV:61:C:OP2	2.12	0.49
3:AB:133:ALA:O	3:AB:137:THR:HG23	2.12	0.49
10:AI:18:VAL:HG11	10:AI:82:ILE:HA	1.94	0.49
11:AJ:67:ILE:HG23	11:AJ:67:ILE:O	2.13	0.49
12:AK:16:SER:HA	12:AK:78:ILE:HA	1.94	0.49
13:AL:49:ARG:HB3	13:AL:65:TYR:HE1	1.77	0.49
18:AQ:35:LYS:HD2	18:AQ:35:LYS:O	2.12	0.49
22:B0:474:G:O2'	22:B0:475:C:P	2.70	0.49
22:B0:759:G:H2'	22:B0:760:G:H8	1.75	0.49
22:B0:857:G:H4'	45:BU:71:LYS:HZ1	1.77	0.49
22:B0:1116:G:H2'	22:B0:1117:C:H6	1.76	0.49
22:B0:1302:A:O2'	22:B0:1303:G:OP1	2.18	0.49
22:B0:1820:U:O4	26:BA:227:VAL:HG21	2.12	0.49
22:B0:1838:C:H5''	22:B0:1839:G:OP1	2.13	0.49
22:B0:2143:C:O2'	22:B0:2144:G:O5'	2.29	0.49
22:B0:2152:G:OP1	22:B0:2153:C:N3	2.45	0.49
22:B0:2559:C:O2'	22:B0:2560:A:H5'	2.12	0.49
25:B3:20:VAL:HA	25:B3:23:ILE:CG1	2.42	0.49
28:BC:44:ARG:HA	28:BC:90:GLN:CA	2.42	0.49
28:BC:53:THR:HG21	28:BC:67:ARG:HD3	1.94	0.49
28:BC:137:LYS:O	28:BC:141:MET:HB2	2.12	0.49
28:BC:157:LEU:HD23	28:BC:157:LEU:N	2.27	0.49
29:BD:106:ALA:HB1	29:BD:136:ILE:O	2.11	0.49
29:BD:111:ARG:HD2	29:BD:112:ASP:H	1.77	0.49
37:BL:10:LEU:H	37:BL:10:LEU:HD12	1.77	0.49
37:BL:52:ILE:O	37:BL:53:THR:HB	2.12	0.49
40:BO:11:ALA:HA	40:BO:14:LYS:CE	2.36	0.49
45:BU:54:ARG:HG3	45:BU:55:ASP:N	2.27	0.49
46:BW:33:ALA:O	46:BW:34:SER:CB	2.61	0.49
47:BX:40:THR:O	47:BX:44:ARG:HG3	2.12	0.49
1:AA:665:A:O4'	1:AA:733:G:H1'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:893:C:H5''	1:AA:1416:G:OP1	2.12	0.49
1:AA:913:A:O2'	1:AA:914:A:P	2.71	0.49
7:AF:9:MET:HB2	7:AF:85:ILE:HG23	1.94	0.49
11:AJ:70:HIS:C	11:AJ:71:LEU:HD12	2.37	0.49
12:AK:73:VAL:CG1	12:AK:78:ILE:HD12	2.43	0.49
19:AR:36:GLY:HA3	19:AR:69:TYR:C	2.37	0.49
22:B0:326:G:H2'	22:B0:327:G:H8	1.77	0.49
22:B0:662:G:H3'	28:BC:88:ARG:HG3	1.93	0.49
22:B0:684:G:H2'	22:B0:685:A:H5''	1.95	0.49
22:B0:844:A:H2'	22:B0:845:A:O4'	2.12	0.49
22:B0:848:C:H1'	22:B0:934:U:H1'	1.94	0.49
22:B0:857:G:H5'	45:BU:71:LYS:HG3	1.94	0.49
22:B0:858:G:H1'	22:B0:2269:G:H4'	1.94	0.49
22:B0:996:A:H5''	40:BO:92:LYS:HD3	1.94	0.49
22:B0:1022:G:O5'	22:B0:1023:U:OP1	2.30	0.49
22:B0:1580:A:H2'	22:B0:1581:A:C5'	2.42	0.49
22:B0:2542:A:C4'	22:B0:2543:G:H5'	2.36	0.49
23:B9:25:U:H4'	23:B9:26:C:H5	1.77	0.49
24:B2:43:VAL:O	24:B2:171:HIS:HA	2.12	0.49
26:BA:48:ILE:HD12	26:BA:48:ILE:C	2.37	0.49
26:BA:122:ALA:N	26:BA:129:LEU:HD11	2.28	0.49
27:BB:29:VAL:HG23	27:BB:29:VAL:O	2.12	0.49
27:BB:36:GLN:HB2	27:BB:79:LEU:HD23	1.94	0.49
28:BC:35:TYR:CD2	28:BC:35:TYR:C	2.91	0.49
32:BG:50:LYS:HD2	32:BG:50:LYS:C	2.37	0.49
33:BH:25:LEU:HD22	33:BH:26:GLY:N	2.26	0.49
36:BK:65:ILE:HG23	36:BK:68:PHE:CZ	2.47	0.49
38:BM:87:ILE:C	38:BM:88:LYS:HD2	2.38	0.49
41:BQ:47:VAL:HB	41:BQ:103:ILE:HD13	1.94	0.49
1:AA:389:A:H2'	1:AA:390:U:H5'	1.95	0.49
1:AA:402:G:H1	1:AA:403:C:H41	1.60	0.49
1:AA:501:C:H2'	1:AA:502:A:C8	2.48	0.49
1:AA:689:C:H1'	1:AA:704:A:H2	1.75	0.49
1:AA:976:G:N2	1:AA:1363:A:OP1	2.46	0.49
1:AA:1401:G:C2	1:AA:1504:G:N2	2.80	0.49
1:AA:1405:G:O2'	1:AA:1518:A:H4'	2.12	0.49
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.76	0.49
1:AA:1442:G:H3'	1:AA:1442:G:N3	2.26	0.49
1:AA:1473:G:H2'	1:AA:1474:U:C6	2.48	0.49
3:AB:162:VAL:HG12	3:AB:163:ILE:N	2.27	0.49
4:AC:190:THR:HG22	4:AC:191:THR:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:123:LEU:HD13	6:AE:123:LEU:C	2.38	0.49
8:AG:30:MET:O	8:AG:32:ASP:N	2.46	0.49
10:AI:56:MET:O	10:AI:58:GLU:N	2.44	0.49
15:AN:40:ARG:O	15:AN:44:VAL:HG23	2.13	0.49
16:AO:55:LEU:O	16:AO:59:VAL:HG12	2.12	0.49
16:AO:59:VAL:HG13	16:AO:60:SER:N	2.27	0.49
17:AP:19:VAL:O	17:AP:19:VAL:HG13	2.12	0.49
20:AS:81:GLY:O	20:AS:82:HIS:C	2.54	0.49
22:B0:269:C:H2'	22:B0:271:G:OP1	2.11	0.49
22:B0:300:A:H2'	22:B0:335:C:C5'	2.43	0.49
22:B0:467:G:O2'	22:B0:468:G:H5'	2.13	0.49
22:B0:492:A:C8	41:BQ:9:HIS:HB3	2.47	0.49
22:B0:800:A:H5'	28:BC:53:THR:HB	1.93	0.49
22:B0:807:U:H4'	22:B0:2445:G:C4'	2.40	0.49
22:B0:918:A:N6	22:B0:2268:A:H8	2.09	0.49
22:B0:960:A:C2'	22:B0:2496:C:H5''	2.42	0.49
22:B0:1048:A:H2'	22:B0:1049:C:C6	2.47	0.49
22:B0:1203:U:H5	35:BJ:10:GLU:HG2	1.77	0.49
22:B0:1319:C:O2'	22:B0:1320:C:H5'	2.11	0.49
22:B0:1347:A:P	22:B0:1382:G:H22	2.35	0.49
22:B0:1419:A:H62	22:B0:1579:A:N6	2.06	0.49
22:B0:1593:G:O2'	22:B0:1594:U:P	2.70	0.49
22:B0:1996:C:N4	27:BB:136:ASN:O	2.46	0.49
22:B0:2127:G:OP2	22:B0:2128:G:OP2	2.30	0.49
22:B0:2586:U:O2'	22:B0:2587:A:H5'	2.13	0.49
25:B5:107:LYS:HG3	25:B5:117:VAL:HB	1.94	0.49
26:BA:244:VAL:HG23	26:BA:244:VAL:O	2.13	0.49
27:BB:26:VAL:O	27:BB:27:ILE:HD13	2.12	0.49
27:BB:79:LEU:HD22	27:BB:79:LEU:N	2.20	0.49
28:BC:78:TRP:O	28:BC:79:ARG:C	2.55	0.49
29:BD:48:LEU:HA	29:BD:51:ASN:ND2	2.27	0.49
32:BG:74:PRO:O	32:BG:75:ALA:HB3	2.12	0.49
32:BG:75:ALA:O	32:BG:76:ALA:HB3	2.11	0.49
33:BH:32:LEU:HB3	33:BH:54:ILE:CD1	2.42	0.49
34:BI:5:GLN:O	34:BI:5:GLN:HG2	2.13	0.49
40:BO:48:ASP:HA	40:BO:50:ARG:NH1	2.26	0.49
41:BQ:88:ARG:HH12	41:BQ:92:ARG:CB	2.21	0.49
42:BR:36:LYS:HD3	42:BR:36:LYS:N	2.17	0.49
1:AA:35:G:N2	1:AA:550:G:N2	2.60	0.49
1:AA:226:G:O2'	1:AA:227:G:H5'	2.12	0.49
1:AA:576:C:H5''	1:AA:577:G:OP2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:O2'	1:AA:1102:A:O4'	2.24	0.49
1:AA:1120:C:H2'	1:AA:1121:U:C6	2.48	0.49
1:AA:1145:A:O2'	1:AA:1146:A:C8	2.63	0.49
1:AA:1167:A:H2'	1:AA:1167:A:N3	2.27	0.49
1:AA:1464:U:H2'	1:AA:1465:A:C8	2.48	0.49
3:AB:71:THR:HG23	3:AB:93:HIS:O	2.12	0.49
5:AD:96:ARG:NH1	5:AD:133:SER:HA	2.27	0.49
11:AJ:56:HIS:CD2	11:AJ:57:VAL:HG23	2.48	0.49
17:AP:14:ARG:HB2	17:AP:14:ARG:CZ	2.42	0.49
17:AP:34:GLU:OE2	17:AP:56:ARG:HD3	2.12	0.49
17:AP:67:ILE:HD13	17:AP:67:ILE:N	2.19	0.49
20:AS:46:LEU:HD12	20:AS:46:LEU:N	2.27	0.49
22:B0:191:A:H2'	22:B0:192:C:C6	2.48	0.49
22:B0:453:A:H4'	22:B0:457:A:C6	2.47	0.49
22:B0:834:G:H21	22:B0:2358:A:H61	1.59	0.49
22:B0:873:C:H2'	22:B0:874:G:C8	2.47	0.49
22:B0:1142:A:C4'	22:B0:1143:A:OP1	2.60	0.49
22:B0:1227:G:H2'	22:B0:1228:G:C8	2.46	0.49
22:B0:1421:G:N2	26:BA:144:GLU:CD	2.70	0.49
22:B0:1478:G:C2'	22:B0:1479:G:H5'	2.43	0.49
22:B0:1487:G:H3'	26:BA:197:ALA:O	2.12	0.49
22:B0:2067:G:H1'	22:B0:2444:G:H1	1.77	0.49
22:B0:2176:A:OP2	24:B2:165:ASP:HB2	2.13	0.49
22:B0:2263:C:C5'	45:BU:11:ASN:H	2.26	0.49
22:B0:2346:A:H5''	22:B0:2347:C:OP2	2.13	0.49
22:B0:2445:G:H2'	22:B0:2446:G:C8	2.47	0.49
22:B0:2479:U:H2'	22:B0:2480:C:H5'	1.93	0.49
26:BA:71:ASP:CB	26:BA:118:GLY:HA3	2.42	0.49
30:BE:120:ILE:HD13	30:BE:120:ILE:N	2.24	0.49
33:BH:70:THR:O	33:BH:70:THR:HG22	2.12	0.49
33:BH:104:ALA:O	33:BH:105:VAL:C	2.54	0.49
36:BK:92:TRP:N	36:BK:92:TRP:HE3	2.10	0.49
37:BL:49:GLU:HB2	37:BL:52:ILE:CD1	2.42	0.49
40:BO:113:LYS:HD2	40:BO:113:LYS:N	2.28	0.49
42:BR:57:VAL:HG23	42:BR:57:VAL:O	2.12	0.49
44:BT:17:SER:O	44:BT:21:ARG:HG3	2.13	0.49
49:B1:13:SER:HA	49:B1:19:PHE:CD1	2.47	0.49
1:AA:118:U:O4	1:AA:289:G:H4'	2.12	0.49
1:AA:197:A:O2'	1:AA:198:G:O5'	2.29	0.49
1:AA:427:U:P	5:AD:12:ARG:HH22	2.35	0.49
1:AA:818:G:H3'	1:AA:819:A:C5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:888:G:H5'	1:AA:1489:G:H4'	1.94	0.49
1:AA:915:A:H2'	1:AA:916:U:O4'	2.13	0.49
1:AA:1117:A:C1'	10:AI:107:ALA:HB2	2.42	0.49
2:AV:3:G:H2'	2:AV:4:G:C8	2.48	0.49
3:AB:91:VAL:HG11	3:AB:95:TRP:HD1	1.77	0.49
6:AE:12:GLU:OE1	6:AE:12:GLU:N	2.46	0.49
7:AF:10:VAL:HG23	7:AF:83:ALA:C	2.37	0.49
7:AF:61:LEU:HD12	7:AF:61:LEU:N	2.28	0.49
10:AI:105:ARG:CG	10:AI:106:ASP:H	2.17	0.49
14:AM:16:ILE:HD13	14:AM:16:ILE:C	2.38	0.49
14:AM:68:LEU:C	14:AM:68:LEU:HD23	2.37	0.49
16:AO:38:LEU:O	16:AO:41:HIS:HB3	2.13	0.49
16:AO:69:LEU:CD1	16:AO:76:ARG:HD2	2.42	0.49
20:AS:49:ALA:HB1	20:AS:56:HIS:HB3	1.93	0.49
22:B0:414:C:H2'	22:B0:415:A:C8	2.47	0.49
22:B0:799:G:C4	28:BC:56:GLY:HA3	2.46	0.49
22:B0:955:U:H4'	22:B0:2276:G:O2'	2.13	0.49
22:B0:999:U:H2'	22:B0:1000:A:H8	1.77	0.49
22:B0:1069:A:N1	22:B0:2474:U:O2'	2.46	0.49
22:B0:1171:G:H1	22:B0:1178:C:N4	2.11	0.49
22:B0:1286:A:O2'	22:B0:1288:G:OP2	2.31	0.49
22:B0:1300:G:H4'	22:B0:1301:A:C5'	2.42	0.49
22:B0:1582:C:C2'	26:BA:96:LYS:HB2	2.32	0.49
22:B0:1607:C:N3	22:B0:1611:C:C4	2.81	0.49
22:B0:2075:U:H3'	22:B0:2238:G:C6	2.47	0.49
22:B0:2433:A:O2'	22:B0:2434:A:P	2.70	0.49
22:B0:2449:U:O2	22:B0:2449:U:H2'	2.13	0.49
22:B0:2690:U:H5	22:B0:2719:G:H21	1.61	0.49
22:B0:2782:G:O2'	22:B0:2783:U:H5'	2.12	0.49
22:B0:2863:C:H2'	22:B0:2864:G:H8	1.78	0.49
25:B5:81:LYS:HG2	25:B5:82:GLU:OE2	2.12	0.49
27:BB:125:TRP:O	27:BB:126:ASN:CB	2.60	0.49
27:BB:133:THR:HA	27:BB:136:ASN:HD22	1.76	0.49
28:BC:3:LEU:HD13	28:BC:17:THR:O	2.12	0.49
28:BC:32:VAL:HG22	28:BC:32:VAL:O	2.12	0.49
33:BH:108:MET:N	33:BH:108:MET:SD	2.84	0.49
37:BL:96:ARG:NH2	37:BL:114:GLU:HG3	2.28	0.49
38:BM:14:ALA:HA	38:BM:15:ARG:NH1	2.27	0.49
39:BN:113:LEU:C	39:BN:113:LEU:HD13	2.37	0.49
42:BR:48:GLN:NE2	42:BR:55:VAL:HG22	2.27	0.49
45:BU:78:PHE:O	45:BU:79:ILE:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:29:U:O2'	1:AA:30:U:H5'	2.13	0.49
1:AA:50:A:O2'	1:AA:52:C:C6	2.66	0.49
1:AA:731:G:OP1	1:AA:766:A:H1'	2.13	0.49
1:AA:831:A:H2'	1:AA:832:G:H8	1.76	0.49
1:AA:922:G:N2	1:AA:1396:A:H1'	2.27	0.49
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.28	0.49
3:AB:202:ASN:HD22	3:AB:202:ASN:C	2.21	0.49
5:AD:54:LEU:HA	5:AD:202:LEU:HD22	1.95	0.49
5:AD:56:GLU:O	5:AD:59:LYS:HG2	2.12	0.49
7:AF:77:THR:HG23	7:AF:78:PHE:CD1	2.44	0.49
10:AI:18:VAL:HG11	10:AI:82:ILE:HG12	1.94	0.49
10:AI:95:SER:O	10:AI:99:LYS:HE2	2.13	0.49
10:AI:118:ARG:HH12	10:AI:124:PRO:HB3	1.77	0.49
22:B0:591:U:H2'	22:B0:592:A:C8	2.46	0.49
22:B0:625:G:O2'	22:B0:626:A:H5'	2.12	0.49
22:B0:680:C:C2	22:B0:798:G:N2	2.81	0.49
22:B0:804:A:H2'	22:B0:806:C:C5	2.47	0.49
22:B0:956:G:H1'	22:B0:2250:G:C6	2.48	0.49
22:B0:996:A:OP2	40:BO:53:LYS:HD3	2.11	0.49
22:B0:1194:A:O2'	22:B0:1195:G:H5'	2.12	0.49
22:B0:1273:U:O2'	22:B0:1274:A:OP1	2.25	0.49
22:B0:1486:G:OP2	26:BA:196:ASN:ND2	2.46	0.49
22:B0:1490:C:H2'	22:B0:1490:C:O2	2.11	0.49
22:B0:1493:A:C4	26:BA:131:MET:HE1	2.47	0.49
22:B0:1495:A:C8	26:BA:190:THR:HA	2.48	0.49
22:B0:1600:C:H4'	42:BR:64:LYS:NZ	2.28	0.49
22:B0:1832:C:H2'	22:B0:1833:C:H4'	1.95	0.49
22:B0:1869:G:H2'	22:B0:1871:A:OP2	2.12	0.49
22:B0:2039:U:H2'	22:B0:2040:G:C8	2.47	0.49
22:B0:2127:G:C3'	22:B0:2166:U:C5'	2.86	0.49
22:B0:2238:G:H4'	22:B0:2239:G:O5'	2.11	0.49
22:B0:2260:C:H2'	22:B0:2261:C:C6	2.47	0.49
22:B0:2347:C:N3	22:B0:2371:G:N2	2.61	0.49
22:B0:2723:C:H2'	22:B0:2724:U:O4'	2.12	0.49
25:B5:94:LEU:C	25:B5:94:LEU:HD13	2.38	0.49
30:BE:71:LEU:O	30:BE:75:VAL:HG23	2.12	0.49
30:BE:85:LYS:C	30:BE:86:LEU:HD12	2.38	0.49
33:BH:36:LEU:HG	33:BH:118:MET:HG3	1.95	0.49
39:BN:52:ARG:HG2	39:BN:53:GLY:N	2.28	0.49
39:BN:63:ILE:HD11	39:BN:74:GLN:NE2	2.22	0.49
39:BN:91:VAL:O	39:BN:92:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:91:ARG:HG2	40:BO:91:ARG:HH11	1.77	0.49
41:BQ:39:THR:O	41:BQ:41:LYS:HG3	2.13	0.49
41:BQ:49:LYS:HA	41:BQ:49:LYS:HZ2	1.76	0.49
41:BQ:72:THR:HG23	41:BQ:73:LYS:N	2.27	0.49
45:BU:69:GLU:O	45:BU:69:GLU:CD	2.56	0.49
46:BW:42:LEU:HB2	46:BW:46:VAL:HG23	1.94	0.49
46:BW:44:LYS:HE3	46:BW:48:ARG:HH21	1.75	0.49
1:AA:50:A:H62	1:AA:361:G:H4'	1.77	0.49
1:AA:718:A:C8	12:AK:117:HIS:CG	3.01	0.49
1:AA:1369:C:C6	10:AI:112:ARG:HB2	2.48	0.49
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.13	0.49
2:AV:52:U:H2'	2:AV:53:G:H8	1.78	0.49
3:AB:56:LEU:HD22	3:AB:216:VAL:HG23	1.94	0.49
5:AD:67:LEU:HD22	5:AD:67:LEU:N	2.27	0.49
5:AD:144:ILE:HD12	5:AD:177:MET:HE2	1.93	0.49
6:AE:71:ILE:HD12	6:AE:71:ILE:O	2.12	0.49
10:AI:71:ILE:HD13	10:AI:74:GLN:OE1	2.12	0.49
12:AK:15:VAL:HB	12:AK:78:ILE:CG1	2.42	0.49
12:AK:118:ASN:C	12:AK:120:CYS:H	2.19	0.49
13:AL:79:ILE:CG1	13:AL:103:CYS:HB2	2.43	0.49
20:AS:31:ARG:HD2	20:AS:56:HIS:CD2	2.47	0.49
22:B0:340:A:H2'	22:B0:341:C:H5'	1.93	0.49
22:B0:407:G:H2'	22:B0:408:G:H8	1.78	0.49
22:B0:493:G:N2	41:BQ:6:LYS:O	2.45	0.49
22:B0:587:C:O2'	28:BC:83:VAL:HG22	2.11	0.49
22:B0:662:G:H5''	28:BC:88:ARG:CD	2.43	0.49
22:B0:802:A:P	28:BC:62:GLN:HB2	2.52	0.49
22:B0:807:U:O4'	22:B0:2445:G:H4'	2.13	0.49
22:B0:1021:A:H2'	22:B0:1023:U:O4'	2.13	0.49
22:B0:1046:A:O2'	25:B5:26:MET:CA	2.59	0.49
22:B0:1111:A:O2'	22:B0:1112:G:C1'	2.60	0.49
22:B0:1142:A:O2'	22:B0:1144:A:OP2	2.25	0.49
22:B0:1211:C:H4'	22:B0:1212:G:OP2	2.12	0.49
22:B0:1263:U:H2'	22:B0:1264:A:O4'	2.12	0.49
22:B0:1402:U:H2'	22:B0:1403:A:H8	1.77	0.49
22:B0:1760:C:OP2	22:B0:1760:C:C6	2.62	0.49
22:B0:1799:G:H4'	22:B0:1800:C:O5'	2.13	0.49
22:B0:2127:G:H2'	22:B0:2165:C:O3'	2.13	0.49
22:B0:2133:G:OP1	24:B2:11:ARG:HB3	2.12	0.49
22:B0:2438:U:H4'	22:B0:2600:A:H5'	1.94	0.49
22:B0:2462:C:H1'	22:B0:2491:U:O4	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2546:U:H5''	22:B0:2547:A:C5'	2.43	0.49
26:BA:142:ASN:HB3	26:BA:190:THR:HG1	1.76	0.49
26:BA:175:LEU:HG	26:BA:178:GLY:N	2.22	0.49
28:BC:49:ARG:HH11	28:BC:49:ARG:CB	2.19	0.49
33:BH:138:GLN:H	33:BH:138:GLN:CD	2.20	0.49
35:BJ:109:LYS:C	35:BJ:126:ARG:HH21	2.20	0.49
37:BL:22:ARG:HA	37:BL:22:ARG:NE	2.28	0.49
39:BN:6:GLN:HB3	39:BN:7:LEU:HD22	1.94	0.49
39:BN:47:ILE:HD12	39:BN:63:ILE:CD1	2.43	0.49
39:BN:95:LYS:HG3	39:BN:97:TYR:CE1	2.47	0.49
41:BQ:16:LYS:NZ	41:BQ:18:ARG:NH1	2.61	0.49
45:BU:24:ARG:O	45:BU:58:LEU:HD11	2.13	0.49
45:BU:67:LYS:HE3	45:BU:71:LYS:HD3	1.95	0.49
47:BX:31:ILE:H	47:BX:31:ILE:CD1	2.25	0.49
1:AA:126:G:H5'	1:AA:633:G:N2	2.27	0.49
1:AA:1221:G:H2'	20:AS:1:PRO:CD	2.42	0.49
1:AA:1242:G:H2'	1:AA:1243:C:H6	1.78	0.49
1:AA:1256:A:O2'	1:AA:1257:A:P	2.70	0.49
1:AA:1347:G:O2'	1:AA:1348:U:H6	1.96	0.49
1:AA:1386:G:H2'	1:AA:1387:G:C8	2.48	0.49
1:AA:1460:C:H2'	1:AA:1461:G:O4'	2.12	0.49
5:AD:66:VAL:HB	5:AD:70:GLN:NE2	2.28	0.49
5:AD:144:ILE:O	5:AD:149:LYS:HE3	2.13	0.49
6:AE:10:LEU:HD11	6:AE:67:ARG:HG2	1.95	0.49
7:AF:10:VAL:HG11	7:AF:21:MET:HE1	1.94	0.49
7:AF:29:ILE:HD11	7:AF:64:VAL:HG21	1.94	0.49
8:AG:29:LEU:HD21	8:AG:119:LEU:HD22	1.94	0.49
10:AI:112:ARG:HG2	10:AI:112:ARG:HH11	1.77	0.49
14:AM:16:ILE:HA	14:AM:19:THR:OG1	2.13	0.49
22:B0:72:U:H5''	22:B0:73:A:OP2	2.13	0.49
22:B0:91:A:H5'	22:B0:92:U:OP2	2.13	0.49
22:B0:371:A:H4'	22:B0:372:G:O5'	2.13	0.49
22:B0:385:C:H2'	22:B0:387:U:OP2	2.13	0.49
22:B0:457:A:O3'	22:B0:458:G:H4'	2.12	0.49
22:B0:672:C:C5	28:BC:77:ILE:HD12	2.47	0.49
22:B0:799:G:N3	28:BC:56:GLY:HA3	2.28	0.49
22:B0:1458:C:H2'	22:B0:1459:U:O4'	2.13	0.49
22:B0:1579:A:N3	26:BA:68:ARG:N	2.61	0.49
22:B0:1615:C:HO2'	22:B0:1616:A:P	2.36	0.49
22:B0:1924:C:H2'	22:B0:1925:C:H6	1.78	0.49
23:B9:92:C:H2'	23:B9:93:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:169:ILE:HG13	24:B2:170:ILE:N	2.28	0.49
30:BE:102:ILE:HG13	30:BE:112:VAL:O	2.13	0.49
33:BH:25:LEU:HD13	33:BH:25:LEU:N	2.27	0.49
34:BI:90:ASN:O	34:BI:91:SER:C	2.55	0.49
35:BJ:124:GLY:C	35:BJ:126:ARG:HD3	2.37	0.49
41:BQ:17:VAL:HG11	41:BQ:101:SER:CB	2.42	0.49
41:BQ:18:ARG:CB	41:BQ:76:VAL:HG21	2.43	0.49
42:BR:66:LYS:NZ	42:BR:67:VAL:HG23	2.27	0.49
44:BT:60:VAL:HG13	44:BT:60:VAL:O	2.13	0.49
45:BU:30:VAL:HG22	45:BU:31:LEU:N	2.28	0.49
47:BX:20:LYS:C	47:BX:20:LYS:HD3	2.37	0.49
47:BX:26:LEU:HA	47:BX:37:ARG:NH2	2.27	0.49
1:AA:189:A:O2'	1:AA:190:A:H4'	2.13	0.49
1:AA:446:G:H1	1:AA:488:C:H42	1.61	0.49
1:AA:924:C:H2'	1:AA:925:G:C8	2.48	0.49
1:AA:1168:U:H2'	1:AA:1169:A:C8	2.48	0.49
1:AA:1240:U:H1'	8:AG:33:GLY:O	2.13	0.49
1:AA:1293:C:H2'	1:AA:1294:G:C8	2.48	0.49
1:AA:1459:G:H4'	21:AT:18:LYS:HD3	1.95	0.49
3:AB:113:LEU:HD23	3:AB:113:LEU:C	2.38	0.49
3:AB:160:LEU:HD12	3:AB:160:LEU:N	2.27	0.49
4:AC:26:LYS:HD2	4:AC:27:GLU:N	2.28	0.49
4:AC:116:ALA:HB2	4:AC:184:ASN:OD1	2.13	0.49
9:AH:54:THR:HG23	9:AH:55:LYS:HG3	1.94	0.49
11:AJ:32:THR:CG2	11:AJ:83:THR:HA	2.43	0.49
11:AJ:53:ILE:HG12	11:AJ:63:ASP:HB2	1.94	0.49
13:AL:29:LYS:C	13:AL:80:LEU:HD12	2.38	0.49
17:AP:4:ILE:HB	17:AP:67:ILE:HG22	1.94	0.49
19:AR:47:ARG:NE	19:AR:49:LYS:HB2	2.27	0.49
20:AS:83:ALA:C	20:AS:85:ASP:H	2.20	0.49
22:B0:285:G:H2'	22:B0:286:U:O4'	2.12	0.49
22:B0:494:G:OP1	41:BQ:102:HIS:HB2	2.13	0.49
22:B0:918:A:N7	22:B0:2268:A:N7	2.61	0.49
22:B0:970:U:C4'	22:B0:984:A:H1'	2.40	0.49
22:B0:989:G:O2'	22:B0:990:A:P	2.70	0.49
22:B0:1155:A:OP2	40:BO:55:GLN:HA	2.13	0.49
22:B0:1196:C:H2'	22:B0:1197:G:C8	2.42	0.49
22:B0:1252:G:H1'	40:BO:32:ARG:HE	1.74	0.49
22:B0:1425:G:N2	22:B0:1574:C:H42	2.11	0.49
22:B0:1457:G:H2'	22:B0:1458:C:O4'	2.13	0.49
22:B0:1492:G:H8	22:B0:1492:G:O5'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1657:U:H2'	22:B0:1658:C:O4'	2.12	0.49
22:B0:1699:G:H5''	22:B0:1700:A:OP2	2.13	0.49
22:B0:1965:C:H5	22:B0:1967:C:OP2	1.95	0.49
22:B0:2332:C:O2'	22:B0:2335:A:H1'	2.13	0.49
26:BA:61:TYR:OH	26:BA:102:TYR:N	2.46	0.49
26:BA:182:LYS:C	26:BA:183:VAL:HG12	2.37	0.49
27:BB:84:LEU:C	27:BB:84:LEU:HD12	2.38	0.49
30:BE:87:GLN:C	30:BE:166:GLU:HG3	2.38	0.49
32:BG:82:ALA:HB1	32:BG:100:ILE:HD11	1.95	0.49
34:BI:8:LEU:HD23	34:BI:19:VAL:O	2.12	0.49
36:BK:59:ARG:CZ	36:BK:59:ARG:HA	2.43	0.49
36:BK:102:LEU:HD12	36:BK:102:LEU:N	2.28	0.49
37:BL:49:GLU:N	37:BL:50:PRO:O	2.45	0.49
39:BN:36:LYS:HD3	39:BN:37:LYS:N	2.27	0.49
39:BN:54:LEU:HD22	39:BN:54:LEU:N	2.28	0.49
39:BN:101:GLU:O	39:BN:103:THR:N	2.43	0.49
41:BQ:74:ILE:O	41:BQ:74:ILE:HG12	2.12	0.49
45:BU:23:LYS:NZ	45:BU:45:HIS:HB2	2.27	0.49
46:BW:29:ARG:HG3	46:BW:29:ARG:HH11	1.78	0.49
1:AA:916:U:H2'	1:AA:917:G:H8	1.78	0.48
1:AA:973:G:H3'	1:AA:974:A:H5''	1.95	0.48
1:AA:979:C:O5'	20:AS:4:LEU:N	2.46	0.48
1:AA:998:C:H2'	1:AA:999:C:C6	2.48	0.48
1:AA:1036:A:H2'	1:AA:1037:C:C6	2.47	0.48
1:AA:1173:U:H2'	1:AA:1174:G:H8	1.78	0.48
1:AA:1347:G:O2'	1:AA:1348:U:P	2.71	0.48
5:AD:71:PHE:HE1	5:AD:93:LEU:HD21	1.78	0.48
12:AK:18:GLY:HA3	12:AK:34:THR:O	2.12	0.48
12:AK:118:ASN:CG	12:AK:119:GLY:H	2.20	0.48
13:AL:65:TYR:HB2	13:AL:92:VAL:HG11	1.94	0.48
15:AN:79:SER:O	15:AN:83:VAL:HG13	2.13	0.48
22:B0:64:A:O2'	22:B0:65:U:H5'	2.12	0.48
22:B0:215:G:H4'	22:B0:216:A:O5'	2.11	0.48
22:B0:226:A:C2'	22:B0:227:A:OP2	2.60	0.48
22:B0:527:C:H4'	22:B0:528:A:O5'	2.13	0.48
22:B0:590:A:OP2	28:BC:47:LYS:HB3	2.13	0.48
22:B0:658:U:C4	28:BC:98:LYS:HD3	2.48	0.48
22:B0:813:U:H2'	22:B0:814:C:C6	2.48	0.48
22:B0:868:U:C4	22:B0:869:G:C6	3.01	0.48
22:B0:1417:U:N3	26:BA:98:GLY:O	2.46	0.48
22:B0:1422:G:H1'	26:BA:149:LYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1491:A:N6	26:BA:180:MET:SD	2.86	0.48
22:B0:1581:A:H8	22:B0:1581:A:O5'	1.96	0.48
22:B0:1816:C:N3	26:BA:50:THR:OG1	2.46	0.48
22:B0:2162:G:N7	22:B0:2164:C:H2'	2.28	0.48
22:B0:2345:G:H4'	22:B0:2346:A:C5'	2.42	0.48
22:B0:2405:G:H1	22:B0:2412:A:N6	2.11	0.48
22:B0:2583:G:H2'	22:B0:2584:U:C6	2.46	0.48
22:B0:2834:G:O2'	22:B0:2835:A:H5'	2.13	0.48
24:B2:47:LEU:HD11	24:B2:170:ILE:HG21	1.93	0.48
26:BA:104:LEU:HB3	26:BA:126:GLY:O	2.12	0.48
26:BA:196:ASN:O	26:BA:197:ALA:C	2.55	0.48
27:BB:3:GLY:HA3	27:BB:203:VAL:O	2.13	0.48
28:BC:130:LYS:CB	28:BC:133:LEU:HD13	2.39	0.48
28:BC:154:ASP:O	28:BC:155:GLU:C	2.54	0.48
32:BG:34:ILE:O	32:BG:34:ILE:HD13	2.13	0.48
37:BL:99:LYS:HB3	37:BL:99:LYS:NZ	2.28	0.48
38:BM:31:THR:HG23	38:BM:32:PRO:HD2	1.95	0.48
40:BO:68:ALA:HB1	40:BO:73:ILE:O	2.12	0.48
41:BQ:71:VAL:HG22	41:BQ:107:VAL:HG12	1.95	0.48
42:BR:61:LEU:HD22	42:BR:61:LEU:N	2.28	0.48
43:BS:28:LEU:HD22	43:BS:28:LEU:N	2.28	0.48
45:BU:20:LEU:H	45:BU:20:LEU:CD2	2.21	0.48
1:AA:27:G:H2'	1:AA:28:A:H8	1.77	0.48
1:AA:41:G:N2	1:AA:401:C:N3	2.62	0.48
1:AA:321:A:N7	1:AA:328:C:O2	2.46	0.48
1:AA:323:U:H3	1:AA:327:A:H62	1.61	0.48
1:AA:975:A:H1'	1:AA:1358:U:O2'	2.13	0.48
1:AA:1158:C:O2	1:AA:1159:U:H4'	2.12	0.48
1:AA:1239:A:N6	1:AA:1296:C:O2'	2.46	0.48
5:AD:58:GLN:HG3	5:AD:62:ARG:NE	2.28	0.48
5:AD:109:THR:HG23	5:AD:112:GLU:H	1.78	0.48
6:AE:89:THR:HG23	6:AE:90:GLY:H	1.77	0.48
7:AF:93:LYS:HD2	7:AF:93:LYS:O	2.14	0.48
12:AK:15:VAL:C	12:AK:17:ASP:H	2.20	0.48
14:AM:18:LEU:C	14:AM:20:SER:H	2.20	0.48
17:AP:14:ARG:HH11	17:AP:14:ARG:CB	2.26	0.48
19:AR:15:GLU:O	19:AR:17:VAL:HG23	2.14	0.48
19:AR:39:VAL:HG23	19:AR:44:THR:HB	1.95	0.48
21:AT:27:MET:HE3	21:AT:60:GLN:OE1	2.13	0.48
22:B0:79:C:H2'	22:B0:80:G:H8	1.77	0.48
22:B0:241:A:H1'	22:B0:243:U:C5	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:527:C:H1'	22:B0:528:A:N7	2.28	0.48
22:B0:669:G:H21	28:BC:74:LYS:HB3	1.75	0.48
22:B0:1054:A:H1'	25:B3:89:SER:OG	2.13	0.48
22:B0:1421:G:C4	26:BA:148:GLY:HA3	2.48	0.48
22:B0:1579:A:O5'	26:BA:66:PHE:N	2.41	0.48
22:B0:1695:G:H2'	22:B0:1696:G:H5'	1.95	0.48
22:B0:2047:C:H2'	22:B0:2048:G:H8	1.78	0.48
22:B0:2126:A:O2'	22:B0:2171:A:N3	2.45	0.48
22:B0:2126:A:H4'	22:B0:2171:A:H2'	1.94	0.48
22:B0:2514:U:N3	22:B0:2574:G:N2	2.60	0.48
22:B0:2550:G:N2	22:B0:2558:C:H42	2.10	0.48
22:B0:2727:A:H2'	22:B0:2728:U:C6	2.48	0.48
23:B9:11:C:C2'	23:B9:12:C:H5'	2.43	0.48
24:B2:36:LYS:HE2	24:B2:36:LYS:CA	2.39	0.48
24:B2:192:LEU:HD13	24:B2:192:LEU:C	2.38	0.48
25:B5:102:ASP:O	25:B5:106:LEU:HG	2.13	0.48
26:BA:141:HIS:CG	26:BA:190:THR:HB	2.48	0.48
26:BA:157:ALA:HB1	26:BA:196:ASN:O	2.13	0.48
27:BB:13:ARG:HD3	39:BN:10:GLU:CD	2.38	0.48
32:BG:48:ILE:HD13	32:BG:48:ILE:N	2.19	0.48
32:BG:108:ILE:HG13	32:BG:128:ILE:HD13	1.95	0.48
32:BG:109:ALA:HA	32:BG:112:LYS:CE	2.43	0.48
32:BG:111:THR:O	32:BG:111:THR:HG22	2.13	0.48
33:BH:106:LYS:NZ	33:BH:116:ARG:NH1	2.62	0.48
34:BI:106:GLU:H	34:BI:106:GLU:CD	2.22	0.48
36:BK:18:ARG:HH21	36:BK:68:PHE:HE2	1.60	0.48
36:BK:25:ASP:HB2	36:BK:64:TRP:CH2	2.48	0.48
39:BN:21:PRO:HG3	39:BN:61:ARG:NE	2.27	0.48
40:BO:49:ARG:NH1	40:BO:49:ARG:HG3	2.26	0.48
40:BO:93:ILE:O	40:BO:97:ILE:HG23	2.13	0.48
43:BS:6:ARG:HD2	43:BS:6:ARG:C	2.38	0.48
45:BU:42:THR:HG23	45:BU:75:ASN:OD1	2.13	0.48
45:BU:59:PHE:CG	45:BU:59:PHE:O	2.66	0.48
1:AA:116:A:H61	1:AA:313:A:C2'	2.26	0.48
1:AA:204:U:H4'	1:AA:216:U:C6	2.48	0.48
1:AA:561:U:H5''	1:AA:563:A:N7	2.27	0.48
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.60	0.48
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.24	0.48
4:AC:166:TRP:CZ2	4:AC:168:ARG:HD3	2.48	0.48
5:AD:63:ILE:HD12	5:AD:194:ILE:HD11	1.93	0.48
5:AD:150:LYS:N	5:AD:150:LYS:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AJ:28:THR:OG1	11:AJ:86:ALA:HB1	2.13	0.48
16:AO:56:LEU:HD12	16:AO:57:ARG:NE	2.28	0.48
22:B0:85:G:H2'	22:B0:86:G:C8	2.48	0.48
22:B0:124:G:H2'	22:B0:125:A:H5''	1.94	0.48
22:B0:241:A:C2	22:B0:255:A:H5''	2.48	0.48
22:B0:588:U:O3'	28:BC:43:THR:HA	2.13	0.48
22:B0:711:G:H1	22:B0:720:U:H3	1.61	0.48
22:B0:848:C:O2'	22:B0:849:A:H5'	2.13	0.48
22:B0:960:A:O4'	22:B0:2496:C:C5'	2.55	0.48
22:B0:1035:U:H2'	22:B0:1036:G:H8	1.78	0.48
22:B0:1170:C:H2'	22:B0:1171:G:C8	2.48	0.48
22:B0:1417:U:O5'	22:B0:1588:A:H1'	2.13	0.48
22:B0:1579:A:O4'	26:BA:65:ASP:CG	2.56	0.48
22:B0:2043:C:OP2	22:B0:2779:U:H5	1.96	0.48
22:B0:2157:G:H4'	22:B0:2158:A:OP1	2.12	0.48
26:BA:76:VAL:HG12	26:BA:114:GLN:HB3	1.95	0.48
26:BA:104:LEU:HD12	26:BA:126:GLY:HA2	1.94	0.48
32:BG:36:GLU:O	32:BG:38:CYS:N	2.45	0.48
33:BH:15:TRP:HH2	33:BH:140:LEU:N	2.11	0.48
33:BH:142:ILE:OXT	33:BH:142:ILE:HG13	2.14	0.48
35:BJ:54:GLN:HB3	35:BJ:56:PRO:HB3	1.95	0.48
36:BK:20:LEU:HD12	36:BK:20:LEU:N	2.27	0.48
37:BL:63:ARG:HH11	37:BL:64:ARG:HE	1.57	0.48
38:BM:8:ILE:H	38:BM:8:ILE:CD1	2.26	0.48
40:BO:34:ALA:C	40:BO:36:GLN:N	2.70	0.48
40:BO:36:GLN:C	40:BO:39:ILE:HG22	2.38	0.48
40:BO:59:LEU:C	40:BO:61:ILE:N	2.69	0.48
41:BQ:14:ALA:HB2	41:BQ:100:THR:O	2.13	0.48
43:BS:8:ASP:O	43:BS:24:VAL:HG23	2.12	0.48
46:BW:18:LEU:O	46:BW:18:LEU:HD13	2.13	0.48
46:BW:39:GLN:OE1	46:BW:41:HIS:HB2	2.14	0.48
1:AA:753:A:H4'	1:AA:754:C:C5'	2.43	0.48
1:AA:839:U:H5'	1:AA:840:C:H5	1.78	0.48
1:AA:872:A:H4'	1:AA:873:A:OP1	2.13	0.48
1:AA:927:G:H4'	1:AA:1503:A:N7	2.28	0.48
1:AA:1330:U:H5'	14:AM:22:TYR:HA	1.96	0.48
3:AB:174:GLU:HA	3:AB:177:ASN:OD1	2.13	0.48
9:AH:74:ILE:O	9:AH:74:ILE:HG23	2.14	0.48
16:AO:59:VAL:HG21	22:B0:715:A:H5'	1.96	0.48
18:AQ:20:ILE:HD12	18:AQ:20:ILE:N	2.28	0.48
21:AT:75:LYS:O	21:AT:79:THR:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:85:LEU:HD12	21:AT:85:LEU:N	2.28	0.48
22:B0:494:G:C1'	41:BQ:7:HIS:H	2.26	0.48
22:B0:516:C:O3'	22:B0:1262:A:H4'	2.14	0.48
22:B0:582:A:H5''	40:BO:10:ARG:HD2	1.96	0.48
22:B0:588:U:O4'	28:BC:80:SER:C	2.56	0.48
22:B0:671:C:H2'	28:BC:77:ILE:HG13	1.95	0.48
22:B0:898:C:H2'	22:B0:899:A:H8	1.77	0.48
22:B0:924:G:H5'	45:BU:22:VAL:CG1	2.42	0.48
22:B0:937:C:H2'	22:B0:938:G:H8	1.78	0.48
22:B0:1022:G:O2'	22:B0:1024:G:N7	2.47	0.48
22:B0:1083:U:HO2'	25:B3:82:GLU:CD	2.18	0.48
22:B0:1170:C:H2'	22:B0:1171:G:H8	1.79	0.48
22:B0:1209:U:O3'	22:B0:1212:G:H5'	2.13	0.48
22:B0:1318:U:H3	22:B0:1334:G:H1	1.61	0.48
22:B0:1493:A:OP1	26:BA:153:LEU:HD22	2.14	0.48
22:B0:1579:A:C3'	26:BA:66:PHE:O	2.62	0.48
22:B0:1801:A:H5''	22:B0:1802:A:OP2	2.12	0.48
22:B0:2023:C:H2'	22:B0:2024:G:H8	1.78	0.48
22:B0:2059:A:O2'	22:B0:2060:A:P	2.71	0.48
22:B0:2238:G:O2'	22:B0:2239:G:H3'	2.14	0.48
22:B0:2262:U:C6	45:BU:11:ASN:O	2.66	0.48
22:B0:2282:G:O6	22:B0:2427:C:N3	2.47	0.48
22:B0:2299:U:H2'	22:B0:2300:C:C6	2.49	0.48
22:B0:2576:G:H3'	22:B0:2576:G:N3	2.29	0.48
22:B0:2678:C:N4	27:BB:126:ASN:ND2	2.61	0.48
22:B0:2679:A:H5'	27:BB:116:LYS:HD2	1.94	0.48
25:B3:50:GLU:HA	25:B5:16:VAL:N	2.28	0.48
25:B5:84:LYS:O	25:B5:88:GLU:HG3	2.14	0.48
26:BA:80:LEU:HD13	26:BA:81:GLU:N	2.29	0.48
26:BA:145:MET:H	26:BA:149:LYS:HD3	1.78	0.48
27:BB:114:LYS:CD	27:BB:196:ALA:HB2	2.39	0.48
28:BC:26:ALA:O	28:BC:30:GLN:HB2	2.12	0.48
28:BC:35:TYR:C	28:BC:35:TYR:HD2	2.21	0.48
29:BD:12:VAL:HG23	29:BD:13:LYS:CD	2.32	0.48
29:BD:143:ASP:O	29:BD:144:LYS:HB3	2.12	0.48
33:BH:51:GLY:HA3	33:BH:121:LYS:HG3	1.95	0.48
36:BK:73:ILE:CG1	36:BK:90:GLU:HB3	2.39	0.48
38:BM:7:ARG:H	38:BM:7:ARG:CD	2.18	0.48
40:BO:27:ARG:HA	40:BO:33:VAL:CG2	2.44	0.48
40:BO:112:ALA:C	40:BO:114:ALA:N	2.68	0.48
1:AA:718:A:H8	12:AK:117:HIS:CA	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:895:G:H1	1:AA:904:U:H3	1.60	0.48
1:AA:1083:U:H2'	1:AA:1084:G:O4'	2.12	0.48
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.49	0.48
1:AA:1347:G:O2'	1:AA:1348:U:O5'	2.31	0.48
1:AA:1383:C:O2'	1:AA:1384:C:P	2.71	0.48
2:AV:39:U:H1'	2:AW:36:A:O2'	2.13	0.48
2:AW:76:A:H2'	22:B0:2392:A:N6	2.28	0.48
3:AB:110:ILE:HD11	3:AB:147:LEU:HD22	1.95	0.48
7:AF:22:ILE:HD13	7:AF:22:ILE:C	2.38	0.48
10:AI:27:ILE:HG23	10:AI:62:LEU:HB2	1.95	0.48
18:AQ:6:THR:HA	18:AQ:60:ILE:O	2.12	0.48
18:AQ:11:VAL:HG12	18:AQ:54:ILE:HA	1.95	0.48
19:AR:35:SER:HB2	19:AR:37:LYS:HZ3	1.78	0.48
19:AR:64:LEU:CB	19:AR:66:LEU:HD13	2.43	0.48
22:B0:223:A:O4'	22:B0:421:C:H4'	2.13	0.48
22:B0:669:G:O5'	28:BC:52:VAL:HB	2.12	0.48
22:B0:732:C:H41	22:B0:762:U:P	2.36	0.48
22:B0:740:C:N4	22:B0:757:G:N1	2.62	0.48
22:B0:910:A:N7	36:BK:10:ARG:NE	2.61	0.48
22:B0:960:A:N9	22:B0:2496:C:C5'	2.76	0.48
22:B0:1996:C:H5'	27:BB:139:SER:HB2	1.96	0.48
22:B0:2065:C:H2'	22:B0:2066:C:H6	1.78	0.48
22:B0:2151:U:H5''	22:B0:2152:G:OP1	2.14	0.48
22:B0:2179:C:O3'	22:B0:2181:U:O5'	2.32	0.48
22:B0:2351:G:H2'	22:B0:2352:A:H8	1.78	0.48
22:B0:2490:G:C5'	22:B0:2491:U:OP1	2.53	0.48
22:B0:2746:U:H5''	30:BE:137:LYS:HE2	1.95	0.48
23:B9:90:C:H2'	23:B9:91:C:C6	2.49	0.48
24:B2:56:GLN:NE2	24:B2:202:GLN:HB2	2.28	0.48
25:B3:46:GLU:C	25:B5:15:SER:HB3	2.37	0.48
25:B5:92:ALA:O	25:B5:93:ALA:C	2.57	0.48
26:BA:80:LEU:HD13	26:BA:80:LEU:C	2.38	0.48
26:BA:241:LYS:O	26:BA:242:HIS:CB	2.61	0.48
27:BB:40:LEU:HD22	27:BB:40:LEU:N	2.28	0.48
35:BJ:118:THR:CG2	35:BJ:119:PRO:HA	2.32	0.48
35:BJ:120:VAL:HG22	35:BJ:121:THR:N	2.28	0.48
36:BK:91:TYR:CG	36:BK:92:TRP:N	2.82	0.48
39:BN:28:LYS:H	39:BN:28:LYS:CD	2.25	0.48
39:BN:28:LYS:HD3	39:BN:28:LYS:N	2.27	0.48
40:BO:3:VAL:HG13	40:BO:3:VAL:O	2.12	0.48
41:BQ:8:ARG:O	41:BQ:9:HIS:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:6:LEU:O	46:BW:14:LEU:HD21	2.13	0.48
48:BZ:38:LEU:HD12	48:BZ:38:LEU:H	1.78	0.48
1:AA:121:U:HO2'	1:AA:123:U:H5	1.60	0.48
1:AA:925:G:N3	1:AA:1502:A:H1'	2.28	0.48
1:AA:1267:C:C6	1:AA:1327:C:H5''	2.49	0.48
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.48	0.48
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.76	0.48
1:AA:1381:U:O2	8:AG:78:ARG:HD3	2.13	0.48
2:AW:52:U:H2'	2:AW:53:G:C8	2.48	0.48
4:AC:6:PRO:O	4:AC:9:ILE:HG22	2.13	0.48
4:AC:141:MET:HE3	4:AC:144:GLY:O	2.13	0.48
10:AI:90:ASP:HB3	10:AI:93:LEU:HG	1.96	0.48
13:AL:56:LEU:HD11	13:AL:81:ILE:CG1	2.44	0.48
13:AL:109:ARG:HH11	13:AL:111:GLN:HB2	1.78	0.48
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HG22	1.95	0.48
18:AQ:81:ALA:O	18:AQ:82:VAL:HG13	2.14	0.48
22:B0:195:A:P	22:B0:196:A:H4'	2.54	0.48
22:B0:386:G:N2	22:B0:411:G:H22	2.08	0.48
22:B0:531:C:H1'	22:B0:532:A:N1	2.28	0.48
22:B0:776:G:C3'	22:B0:777:G:H5''	2.44	0.48
22:B0:784:G:H4'	22:B0:785:G:O5'	2.14	0.48
22:B0:853:C:O2	22:B0:925:A:N1	2.47	0.48
22:B0:863:A:H2	22:B0:915:C:H42	1.61	0.48
22:B0:918:A:N6	22:B0:2268:A:C8	2.69	0.48
22:B0:977:G:H2'	22:B0:978:G:H8	1.78	0.48
22:B0:1056:G:H5''	22:B0:1057:A:O4'	2.13	0.48
22:B0:1084:A:N7	25:B3:82:GLU:HA	2.28	0.48
22:B0:1227:G:H2'	22:B0:1228:G:H8	1.79	0.48
22:B0:1229:C:H2'	22:B0:1230:A:C8	2.47	0.48
22:B0:1292:G:H2'	22:B0:1293:C:C6	2.49	0.48
22:B0:1494:A:P	26:BA:143:VAL:HG11	2.54	0.48
22:B0:1530:C:H2'	22:B0:1531:U:C6	2.47	0.48
22:B0:1565:C:O2	22:B0:1568:G:N2	2.47	0.48
22:B0:1653:G:O6	37:BL:8:ARG:NH1	2.47	0.48
22:B0:2088:A:H2'	22:B0:2089:C:C6	2.49	0.48
22:B0:2161:C:C6	24:B2:5:LYS:HB3	2.49	0.48
22:B0:2243:U:C5'	22:B0:2244:U:OP1	2.59	0.48
22:B0:2779:U:O2	33:BH:111:LYS:HB3	2.14	0.48
22:B0:2781:A:OP1	22:B0:2781:A:H3'	2.14	0.48
22:B0:2832:U:O2'	22:B0:2833:U:OP2	2.29	0.48
25:B5:64:ASN:HB3	25:B5:67:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:139:THR:HG23	26:BA:192:GLY:HA2	1.95	0.48
26:BA:175:LEU:CD2	26:BA:178:GLY:H	2.25	0.48
26:BA:187:CYS:HA	26:BA:188:ARG:CZ	2.43	0.48
28:BC:56:GLY:O	28:BC:57:LYS:HB3	2.14	0.48
28:BC:87:ALA:O	28:BC:88:ARG:HG3	2.14	0.48
29:BD:7:TYR:HA	29:BD:11:VAL:CG1	2.43	0.48
36:BK:75:GLU:HB2	36:BK:90:GLU:OE1	2.14	0.48
39:BN:101:GLU:C	39:BN:103:THR:N	2.69	0.48
41:BQ:66:ILE:HA	41:BQ:69:LEU:CD2	2.44	0.48
45:BU:48:ALA:HB1	45:BU:76:ARG:HH21	1.78	0.48
49:B1:42:VAL:HG22	49:B1:43:ARG:HD2	1.95	0.48
1:AA:56:U:H2'	1:AA:57:G:C8	2.49	0.48
1:AA:88:U:H2'	1:AA:89:U:O4'	2.13	0.48
1:AA:371:A:H61	1:AA:388:G:H1'	1.79	0.48
1:AA:607:A:OP1	1:AA:608:A:OP2	2.32	0.48
1:AA:872:A:O2'	1:AA:874:G:OP2	2.26	0.48
1:AA:1316:G:H2'	1:AA:1318:A:OP2	2.13	0.48
2:AU:52:U:H2'	2:AU:53:G:C8	2.49	0.48
3:AB:161:PHE:HA	3:AB:183:PHE:O	2.13	0.48
5:AD:138:PRO:HA	5:AD:181:PHE:O	2.14	0.48
6:AE:131:ASN:O	6:AE:135:VAL:HG13	2.13	0.48
8:AG:74:VAL:CG1	8:AG:85:GLN:HB3	2.43	0.48
9:AH:100:ILE:HB	9:AH:111:THR:OG1	2.13	0.48
10:AI:46:VAL:HA	10:AI:49:GLN:CG	2.42	0.48
13:AL:23:LEU:HD11	13:AL:60:PHE:CE1	2.49	0.48
14:AM:77:LYS:HD3	14:AM:77:LYS:C	2.38	0.48
15:AN:81:ILE:HD12	15:AN:81:ILE:C	2.38	0.48
16:AO:72:LYS:HD3	16:AO:72:LYS:C	2.38	0.48
18:AQ:77:VAL:HG12	18:AQ:79:GLU:O	2.14	0.48
19:AR:58:ILE:HG22	19:AR:62:ARG:NH1	2.23	0.48
19:AR:64:LEU:HB2	19:AR:66:LEU:HD13	1.94	0.48
22:B0:750:A:H8	22:B0:750:A:OP2	1.97	0.48
22:B0:800:A:H4'	22:B0:801:G:O5'	2.12	0.48
22:B0:802:A:H2'	22:B0:803:U:C6	2.49	0.48
22:B0:822:G:H22	22:B0:2357:G:H22	1.60	0.48
22:B0:961:C:C2'	22:B0:2497:A:O2'	2.49	0.48
22:B0:1398:C:O5'	22:B0:1398:C:H6	1.95	0.48
22:B0:1494:A:N6	26:BA:188:ARG:CG	2.77	0.48
22:B0:1496:A:C5'	26:BA:190:THR:HG23	2.44	0.48
22:B0:1954:G:H2'	22:B0:1956:U:C5	2.49	0.48
22:B0:1969:A:OP1	22:B0:1971:U:H5	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2077:A:N6	22:B0:2241:A:N1	2.61	0.48
22:B0:2164:C:H1'	22:B0:2165:C:H1'	1.95	0.48
22:B0:2515:C:C4	27:BB:152:PRO:HB2	2.48	0.48
22:B0:2783:U:H2'	22:B0:2784:U:C6	2.49	0.48
22:B0:2873:A:H1'	37:BL:5:LYS:HD3	1.95	0.48
24:B2:176:LYS:HB2	24:B2:179:PHE:CE1	2.48	0.48
25:B3:16:VAL:HB	25:B3:53:GLU:N	2.29	0.48
25:B3:85:ASP:C	25:B3:87:VAL:H	2.21	0.48
25:B5:107:LYS:HG2	25:B5:111:GLU:OE2	2.13	0.48
26:BA:195:GLY:O	26:BA:196:ASN:HB3	2.13	0.48
27:BB:123:LYS:CA	27:BB:141:ARG:HH21	2.27	0.48
28:BC:32:VAL:HB	35:BJ:17:LYS:CE	2.43	0.48
37:BL:83:LEU:N	37:BL:83:LEU:HD12	2.28	0.48
39:BN:76:HIS:O	39:BN:79:VAL:HB	2.13	0.48
40:BO:14:LYS:HZ3	40:BO:14:LYS:HB3	1.78	0.48
40:BO:99:VAL:HG13	40:BO:100:PHE:CD1	2.48	0.48
42:BR:10:VAL:HG13	42:BR:35:ALA:CB	2.39	0.48
43:BS:11:ILE:CD1	43:BS:21:ARG:HG2	2.43	0.48
1:AA:717:U:O2'	12:AK:117:HIS:HB3	2.14	0.48
1:AA:718:A:H8	12:AK:117:HIS:N	2.12	0.48
1:AA:736:C:H2'	1:AA:737:C:C6	2.49	0.48
1:AA:820:U:H5''	1:AA:821:G:OP2	2.14	0.48
1:AA:908:A:H2'	1:AA:909:A:C8	2.47	0.48
1:AA:1528:U:C5'	1:AA:1529:G:OP1	2.52	0.48
5:AD:94:GLU:CD	5:AD:99:ASN:HD21	2.21	0.48
7:AF:8:PHE:HB3	7:AF:60:VAL:HG21	1.96	0.48
16:AO:56:LEU:HB3	16:AO:57:ARG:HH11	1.79	0.48
22:B0:95:A:H2'	22:B0:96:C:C6	2.49	0.48
22:B0:493:G:H5'	22:B0:494:G:OP2	2.14	0.48
22:B0:634:C:H2'	22:B0:635:C:H6	1.79	0.48
22:B0:669:G:H22	28:BC:74:LYS:HB2	1.78	0.48
22:B0:855:G:N2	22:B0:922:C:N3	2.60	0.48
22:B0:1002:G:C6	22:B0:1154:G:N2	2.82	0.48
22:B0:1083:U:O2	25:B3:81:LYS:NZ	2.43	0.48
22:B0:1186:G:H21	22:B0:1187:G:H1'	1.78	0.48
22:B0:1288:G:O5'	22:B0:1288:G:H8	1.97	0.48
22:B0:1578:U:O3'	26:BA:65:ASP:CA	2.61	0.48
22:B0:1582:C:H2'	26:BA:97:ASP:H	1.79	0.48
22:B0:1655:A:H3'	22:B0:1656:C:H6	1.77	0.48
22:B0:2320:U:H5''	22:B0:2321:U:OP1	2.14	0.48
22:B0:2640:G:O5'	33:BH:78:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:66:A:C2'	23:B9:67:G:OP2	2.61	0.48
25:B3:73:ARG:NE	25:B3:80:LEU:HA	2.24	0.48
28:BC:150:THR:HG22	28:BC:186:VAL:HA	1.96	0.48
29:BD:32:LYS:HA	29:BD:91:ARG:HG2	1.95	0.48
30:BE:86:LEU:HD12	30:BE:86:LEU:N	2.28	0.48
33:BH:14:ASP:HA	33:BH:138:GLN:NE2	2.29	0.48
33:BH:109:LEU:N	33:BH:110:PRO:CA	2.77	0.48
35:BJ:80:SER:HB3	35:BJ:112:LEU:HD23	1.96	0.48
35:BJ:84:LYS:C	35:BJ:86:GLU:H	2.22	0.48
37:BL:43:GLU:OE1	37:BL:44:LEU:N	2.46	0.48
39:BN:96:LEU:H	39:BN:96:LEU:CD1	2.17	0.48
40:BO:31:TYR:HB2	40:BO:32:ARG:NH1	2.28	0.48
40:BO:56:PHE:O	40:BO:58:GLN:HG3	2.13	0.48
40:BO:59:LEU:O	40:BO:61:ILE:HG12	2.14	0.48
42:BR:11:LEU:CD1	46:BW:29:ARG:HD3	2.44	0.48
42:BR:77:ARG:C	42:BR:77:ARG:NE	2.71	0.48
42:BR:82:LYS:HE2	42:BR:84:TYR:CE1	2.49	0.48
1:AA:9:G:H2'	1:AA:10:A:H8	1.79	0.48
1:AA:525:C:H2'	1:AA:526:C:C6	2.48	0.48
1:AA:982:U:H4'	1:AA:983:A:O4'	2.14	0.48
1:AA:1089:G:N2	1:AA:1090:U:H1'	2.28	0.48
1:AA:1302:C:H5	14:AM:13:HIS:HB2	1.78	0.48
1:AA:1533:C:O2'	1:AA:1534:A:H5'	2.14	0.48
2:AW:30:G:H2'	2:AW:31:A:H8	1.79	0.48
5:AD:90:LEU:N	5:AD:90:LEU:HD12	2.29	0.48
5:AD:102:TYR:CE1	5:AD:109:THR:HA	2.48	0.48
8:AG:135:LYS:HD2	8:AG:135:LYS:O	2.13	0.48
9:AH:6:ILE:HD13	9:AH:32:LYS:CE	2.43	0.48
13:AL:30:ARG:HH22	13:AL:78:VAL:CG1	2.26	0.48
17:AP:56:ARG:NH1	17:AP:60:TRP:HE1	2.12	0.48
19:AR:23:LYS:NZ	19:AR:64:LEU:HD13	2.28	0.48
21:AT:66:ILE:HD11	21:AT:70:LYS:HG2	1.94	0.48
22:B0:226:A:O2'	22:B0:227:A:P	2.72	0.48
22:B0:586:A:C5'	28:BC:78:TRP:HA	2.44	0.48
22:B0:608:A:H2'	22:B0:609:A:H8	1.77	0.48
22:B0:690:G:H2'	22:B0:691:C:C6	2.49	0.48
22:B0:956:G:O2'	36:BK:81:ARG:HA	2.13	0.48
22:B0:1213:A:H61	22:B0:1236:G:H4'	1.78	0.48
22:B0:1376:C:H2'	22:B0:1377:G:C8	2.49	0.48
22:B0:1423:A:H2	22:B0:1576:U:H1'	1.79	0.48
22:B0:1799:G:C8	22:B0:1819:A:N6	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1890:A:H2	22:B0:2234:G:H21	1.61	0.48
22:B0:2115:G:O4'	22:B0:2168:G:H1'	2.13	0.48
22:B0:2212:A:H2'	22:B0:2213:U:O4'	2.14	0.48
22:B0:2269:G:H2'	22:B0:2270:A:O4'	2.13	0.48
22:B0:2513:A:H2'	22:B0:2514:U:C6	2.49	0.48
22:B0:2588:G:H2'	22:B0:2589:A:O4'	2.14	0.48
22:B0:2685:G:H2'	22:B0:2686:G:H8	1.79	0.48
22:B0:2884:U:N3	48:BZ:51:ARG:NH1	2.62	0.48
24:B2:113:VAL:O	24:B2:137:PRO:HG3	2.13	0.48
25:B3:58:LEU:CD2	25:B3:87:VAL:HG13	2.43	0.48
25:B3:64:ASN:HB3	25:B3:67:ALA:HB3	1.94	0.48
25:B5:54:PHE:CE2	25:B5:100:LYS:HD3	2.49	0.48
25:B5:81:LYS:HG2	25:B5:82:GLU:CD	2.39	0.48
26:BA:140:VAL:HA	26:BA:190:THR:O	2.14	0.48
26:BA:171:VAL:CG2	26:BA:172:THR:H	2.25	0.48
27:BB:96:ILE:HB	27:BB:98:VAL:HG22	1.95	0.48
27:BB:123:LYS:H	27:BB:141:ARG:HE	1.60	0.48
29:BD:103:ILE:HG21	29:BD:173:ASP:HA	1.95	0.48
30:BE:5:LYS:HA	30:BE:51:PHE:O	2.14	0.48
32:BG:4:VAL:HG23	32:BG:4:VAL:O	2.14	0.48
37:BL:30:ARG:NH1	37:BL:30:ARG:HB3	2.29	0.48
39:BN:14:GLN:H	39:BN:14:GLN:CD	2.21	0.48
39:BN:47:ILE:HG21	39:BN:61:ARG:CZ	2.44	0.48
45:BU:39:GLN:HB2	45:BU:68:PHE:HD1	1.79	0.48
1:AA:549:C:C4	1:AA:550:G:N7	2.82	0.48
1:AA:960:U:O2	1:AA:1223:C:H4'	2.14	0.48
1:AA:1053:G:H1'	1:AA:1056:U:H5	1.79	0.48
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.49	0.48
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.14	0.48
4:AC:6:PRO:HA	4:AC:9:ILE:HG22	1.96	0.48
7:AF:75:GLU:CB	7:AF:79:ARG:HH12	2.27	0.48
8:AG:148:LYS:CG	12:AK:60:PHE:HE1	2.25	0.48
11:AJ:100:ILE:HG12	11:AJ:100:ILE:OXT	2.14	0.48
12:AK:13:LYS:HZ2	12:AK:15:VAL:HG22	1.78	0.48
18:AQ:13:SER:HB3	18:AQ:21:VAL:HG22	1.96	0.48
19:AR:11:ARG:HG2	19:AR:44:THR:O	2.14	0.48
20:AS:35:ARG:NH2	20:AS:52:ASN:HA	2.28	0.48
22:B0:395:U:H2'	22:B0:396:G:C8	2.49	0.48
22:B0:496:G:H2'	22:B0:497:A:O4'	2.13	0.48
22:B0:662:G:C2	22:B0:663:G:N7	2.82	0.48
22:B0:964:C:O2'	22:B0:2273:A:N3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:992:C:H4'	40:BO:47:ARG:HD3	1.96	0.48
22:B0:1204:A:H2'	22:B0:1206:G:O4'	2.14	0.48
22:B0:1668:A:H4'	22:B0:1669:A:O5'	2.13	0.48
22:B0:1822:C:H2'	22:B0:1823:G:H8	1.77	0.48
22:B0:2109:U:O2'	22:B0:2110:G:P	2.72	0.48
22:B0:2116:G:OP1	22:B0:2117:A:H4'	2.14	0.48
22:B0:2355:G:H5''	45:BU:18:LYS:HE2	1.95	0.48
22:B0:2618:G:H2'	22:B0:2619:C:C6	2.49	0.48
22:B0:2677:G:C2	27:BB:125:TRP:HE3	2.31	0.48
24:B2:46:ASN:HB3	24:B2:209:LYS:HB2	1.96	0.48
24:B2:213:ILE:HG23	24:B2:213:ILE:O	2.14	0.48
24:B2:218:GLY:O	24:B2:219:ALA:C	2.56	0.48
27:BB:181:ASP:O	27:BB:182:ALA:HB2	2.14	0.48
28:BC:115:GLN:CD	28:BC:115:GLN:H	2.21	0.48
32:BG:67:THR:HG22	32:BG:68:PHE:H	1.79	0.48
33:BH:20:ALA:CB	33:BH:56:VAL:HG13	2.44	0.48
35:BJ:21:ARG:O	35:BJ:23:ILE:N	2.47	0.48
39:BN:105:LYS:HA	39:BN:105:LYS:HZ2	1.76	0.48
41:BQ:50:VAL:HA	41:BQ:53:SER:OG	2.14	0.48
42:BR:18:GLU:O	42:BR:19:LYS:HB2	2.14	0.48
42:BR:48:GLN:HA	42:BR:53:VAL:O	2.14	0.48
42:BR:49:LYS:HB3	42:BR:50:LEU:HD12	1.95	0.48
43:BS:11:ILE:HB	43:BS:70:ALA:HB3	1.95	0.48
45:BU:69:GLU:HA	45:BU:73:PRO:CB	2.43	0.48
1:AA:399:G:H2'	1:AA:400:C:C6	2.49	0.47
1:AA:1302:C:O2'	1:AA:1303:C:H5'	2.13	0.47
1:AA:1303:C:OP2	1:AA:1304:G:N7	2.46	0.47
2:AU:70:C:H2'	2:AU:71:G:C8	2.49	0.47
4:AC:190:THR:HG21	4:AC:192:TYR:CE2	2.49	0.47
5:AD:43:ARG:O	5:AD:45:PRO:HD3	2.13	0.47
5:AD:64:TYR:HA	5:AD:110:ARG:CD	2.43	0.47
8:AG:78:ARG:HD3	8:AG:78:ARG:H	1.78	0.47
9:AH:28:SER:HB2	9:AH:56:PRO:HB2	1.94	0.47
9:AH:76:ARG:HG2	9:AH:126:CYS:HB3	1.96	0.47
16:AO:66:LEU:HB3	16:AO:77:TYR:HE1	1.78	0.47
21:AT:19:HIS:O	21:AT:23:ARG:HD3	2.14	0.47
22:B0:481:G:C5	22:B0:507:A:H1'	2.49	0.47
22:B0:508:A:C4'	22:B0:509:C:O5'	2.60	0.47
22:B0:617:G:N3	22:B0:617:G:C3'	2.75	0.47
22:B0:1046:A:O2'	22:B0:1047:G:OP2	2.32	0.47
22:B0:1085:A:H62	25:B3:81:LYS:HB2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1087:G:N7	22:B0:1089:A:H1'	2.29	0.47
22:B0:1246:A:H5''	35:BJ:25:SER:HA	1.96	0.47
22:B0:1341:G:H5''	22:B0:1602:U:O4	2.14	0.47
22:B0:2042:A:H3'	22:B0:2779:U:O4	2.14	0.47
22:B0:2176:A:OP1	24:B2:166:LYS:N	2.46	0.47
22:B0:2321:U:O2	22:B0:2321:U:C2'	2.62	0.47
22:B0:2472:G:H21	22:B0:2529:G:H22	1.60	0.47
22:B0:2537:U:H2'	22:B0:2538:C:C6	2.49	0.47
22:B0:2732:G:H3'	22:B0:2732:G:N3	2.28	0.47
22:B0:2856:A:O5'	22:B0:2857:G:OP2	2.32	0.47
23:B9:112:G:H2'	23:B9:113:C:C6	2.49	0.47
24:B2:26:ILE:CG2	24:B2:181:ALA:HA	2.43	0.47
24:B2:224:ASP:OD2	24:B2:226:ALA:HB3	2.14	0.47
25:B3:17:MET:HA	25:B3:20:VAL:HB	1.96	0.47
25:B3:66:VAL:O	25:B3:70:LYS:HG3	2.14	0.47
27:BB:50:VAL:HG12	27:BB:51:THR:HG23	1.95	0.47
28:BC:158:PHE:CZ	28:BC:160:ALA:HB3	2.49	0.47
30:BE:127:GLN:HG3	30:BE:129:GLU:H	1.79	0.47
36:BK:14:LYS:CG	36:BK:15:GLY:H	2.21	0.47
39:BN:48:ALA:O	39:BN:61:ARG:NH1	2.47	0.47
1:AA:8:A:H1'	6:AE:107:GLY:HA2	1.94	0.47
1:AA:115:G:O2'	1:AA:116:A:P	2.72	0.47
1:AA:175:C:H2'	1:AA:176:C:C6	2.49	0.47
1:AA:545:C:C2'	1:AA:546:A:H5'	2.44	0.47
1:AA:547:A:O2'	1:AA:548:G:C8	2.66	0.47
1:AA:655:A:H2	1:AA:754:C:N3	2.12	0.47
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.14	0.47
2:AV:16:U:H6	2:AV:16:U:P	2.37	0.47
18:AQ:43:LEU:HD22	18:AQ:72:TRP:CZ3	2.49	0.47
21:AT:60:GLN:C	21:AT:66:ILE:HG22	2.39	0.47
22:B0:84:A:H5''	22:B0:85:G:OP1	2.14	0.47
22:B0:121:G:C6	22:B0:140:C:O2	2.67	0.47
22:B0:323:C:N3	28:BC:163:ASN:HB2	2.27	0.47
22:B0:626:A:H3'	22:B0:627:A:C5'	2.43	0.47
22:B0:680:C:H2'	22:B0:681:G:C8	2.49	0.47
22:B0:720:U:H2'	22:B0:721:A:C8	2.49	0.47
22:B0:1016:G:H2'	22:B0:1017:G:H8	1.77	0.47
22:B0:1062:G:H2'	22:B0:1063:G:C8	2.49	0.47
22:B0:1165:A:H61	22:B0:1184:U:H1'	1.79	0.47
22:B0:1193:G:H2'	22:B0:1194:A:C8	2.48	0.47
22:B0:1201:U:N1	35:BJ:14:LYS:HE3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1495:A:O5'	26:BA:191:LEU:N	2.47	0.47
22:B0:1502:C:H2'	22:B0:1503:G:C8	2.48	0.47
22:B0:1578:U:C2'	26:BA:66:PHE:N	2.77	0.47
22:B0:2075:U:H6	22:B0:2075:U:H5'	1.79	0.47
22:B0:2086:U:H2'	22:B0:2087:G:H8	1.78	0.47
22:B0:2126:A:OP2	22:B0:2172:U:C6	2.66	0.47
22:B0:2327:A:N3	45:BU:10:ARG:NH1	2.61	0.47
22:B0:2418:A:H2'	22:B0:2419:U:C6	2.49	0.47
22:B0:2438:U:H4'	22:B0:2600:A:C5'	2.44	0.47
22:B0:2787:C:H4'	22:B0:2811:G:O4'	2.14	0.47
23:B9:99:A:H2'	23:B9:100:G:C5'	2.45	0.47
23:B9:108:A:O2'	23:B9:109:A:OP2	2.32	0.47
25:B3:7:ILE:O	25:B3:11:VAL:HG23	2.13	0.47
26:BA:183:VAL:O	26:BA:184:GLU:O	2.32	0.47
28:BC:23:PHE:CE1	28:BC:28:VAL:HG11	2.50	0.47
28:BC:46:GLN:O	28:BC:47:LYS:HD2	2.14	0.47
28:BC:73:ILE:HA	28:BC:80:SER:O	2.14	0.47
28:BC:151:GLY:HA2	28:BC:187:VAL:HG13	1.95	0.47
28:BC:155:GLU:HG3	28:BC:156:ASN:N	2.29	0.47
29:BD:52:ALA:C	29:BD:54:ALA:N	2.72	0.47
32:BG:36:GLU:C	32:BG:38:CYS:N	2.72	0.47
32:BG:126:ARG:HG3	32:BG:126:ARG:O	2.14	0.47
33:BH:21:THR:HB	33:BH:57:LEU:HD23	1.96	0.47
34:BI:2:ILE:HB	34:BI:33:ALA:O	2.13	0.47
36:BK:8:LYS:O	36:BK:9:PHE:HB3	2.14	0.47
37:BL:31:HIS:C	37:BL:33:ILE:H	2.23	0.47
37:BL:37:THR:C	37:BL:40:LYS:HB3	2.39	0.47
38:BM:48:LEU:HD12	38:BM:48:LEU:N	2.29	0.47
39:BN:24:THR:HG22	39:BN:49:ILE:HD11	1.96	0.47
42:BR:73:ARG:HD2	42:BR:75:GLY:N	2.29	0.47
43:BS:10:VAL:CG1	43:BS:69:VAL:HB	2.44	0.47
47:BX:24:LEU:CD2	47:BX:29:ARG:HG2	2.44	0.47
1:AA:48:C:O2'	1:AA:49:U:P	2.72	0.47
1:AA:57:G:H2'	1:AA:58:C:C6	2.49	0.47
1:AA:166:U:H2'	1:AA:167:A:H8	1.80	0.47
1:AA:225:C:H2'	1:AA:226:G:H8	1.79	0.47
1:AA:294:U:O5'	1:AA:294:U:H6	1.97	0.47
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.49	0.47
5:AD:170:LEU:HD23	5:AD:181:PHE:HA	1.95	0.47
8:AG:20:GLU:O	8:AG:24:LYS:HG3	2.13	0.47
9:AH:87:ARG:HB2	9:AH:87:ARG:HH11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:129:C:N3	22:B0:130:C:N4	2.61	0.47
22:B0:742:A:H2'	22:B0:743:A:C8	2.49	0.47
22:B0:960:A:N6	22:B0:2251:G:H5'	2.29	0.47
22:B0:1006:C:H42	22:B0:1137:G:H1	1.61	0.47
22:B0:1040:A:H2	22:B0:1115:G:N1	2.12	0.47
22:B0:1358:G:H2'	22:B0:1359:A:H8	1.78	0.47
22:B0:1418:G:O6	26:BA:101:ARG:NE	2.47	0.47
22:B0:1456:G:OP1	37:BL:63:ARG:NE	2.47	0.47
22:B0:1493:A:P	26:BA:143:VAL:HG23	2.55	0.47
22:B0:1495:A:O2'	26:BA:128:THR:HG22	2.14	0.47
22:B0:1580:A:OP2	26:BA:68:ARG:NE	2.47	0.47
22:B0:1710:G:H2'	22:B0:1711:A:C8	2.49	0.47
22:B0:2113:U:H5'	22:B0:2114:A:OP2	2.13	0.47
22:B0:2164:C:H4'	22:B0:2165:C:C4'	2.44	0.47
22:B0:2180:U:OP2	22:B0:2181:U:H5''	2.14	0.47
22:B0:2296:U:C5'	22:B0:2297:A:OP1	2.60	0.47
22:B0:2741:A:H2'	22:B0:2742:G:O4'	2.14	0.47
24:B2:38:VAL:HG13	24:B2:38:VAL:O	2.14	0.47
26:BA:241:LYS:HE2	26:BA:255:LYS:HZ1	1.79	0.47
26:BA:250:GLN:C	26:BA:252:LYS:H	2.22	0.47
28:BC:5:LEU:HG	28:BC:120:VAL:CG1	2.45	0.47
32:BG:59:THR:HG23	32:BG:60:VAL:N	2.28	0.47
33:BH:39:LYS:HZ3	33:BH:40:HIS:HB2	1.80	0.47
34:BI:47:ILE:HG23	34:BI:47:ILE:O	2.15	0.47
35:BJ:60:ARG:HH11	35:BJ:60:ARG:CB	2.27	0.47
38:BM:24:THR:HG23	38:BM:90:VAL:HG23	1.96	0.47
38:BM:97:PHE:CE2	38:BM:101:GLY:HA3	2.49	0.47
38:BM:102:ARG:N	38:BM:102:ARG:HD2	2.28	0.47
40:BO:18:LYS:HD2	40:BO:18:LYS:O	2.14	0.47
41:BQ:16:LYS:HZ1	41:BQ:18:ARG:HH12	1.60	0.47
45:BU:30:VAL:HG22	45:BU:31:LEU:CD2	2.33	0.47
47:BX:40:THR:HB	47:BX:43:ILE:HG13	1.97	0.47
1:AA:60:A:O2'	1:AA:61:G:OP2	2.33	0.47
1:AA:477:C:H2'	1:AA:478:A:H8	1.78	0.47
1:AA:726:C:O2'	1:AA:727:G:H5'	2.13	0.47
1:AA:812:G:O2'	1:AA:813:U:P	2.72	0.47
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.80	0.47
1:AA:1380:U:C2'	1:AA:1381:U:OP2	2.62	0.47
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.49	0.47
2:AU:40:C:H2'	2:AU:41:U:C6	2.49	0.47
3:AB:212:TYR:O	3:AB:216:VAL:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:45:VAL:HG12	6:AE:46:GLY:N	2.29	0.47
6:AE:55:VAL:N	6:AE:56:PRO:HD2	2.29	0.47
7:AF:10:VAL:HG22	7:AF:11:HIS:H	1.79	0.47
13:AL:109:ARG:CB	13:AL:118:VAL:HG21	2.44	0.47
22:B0:347:A:H2'	22:B0:348:A:H8	1.77	0.47
22:B0:1005:C:C5	22:B0:1143:A:H1'	2.49	0.47
22:B0:1427:A:H61	26:BA:58:LYS:HG3	1.76	0.47
22:B0:1494:A:C6	26:BA:131:MET:HA	2.49	0.47
22:B0:1496:A:N7	26:BA:141:HIS:ND1	2.62	0.47
22:B0:1567:G:H4'	22:B0:1568:G:N3	2.30	0.47
22:B0:1611:C:N4	22:B0:1612:C:N4	2.63	0.47
22:B0:2049:G:O2'	22:B0:2050:C:P	2.72	0.47
22:B0:2074:U:H2'	22:B0:2075:U:H5''	1.97	0.47
22:B0:2121:G:H1	22:B0:2178:C:N4	2.00	0.47
22:B0:2323:G:H21	22:B0:2337:G:C5'	2.27	0.47
22:B0:2363:G:H2'	22:B0:2364:C:C6	2.49	0.47
22:B0:2592:G:H2'	22:B0:2593:U:C6	2.49	0.47
22:B0:2679:A:O3'	27:BB:116:LYS:HE2	2.14	0.47
22:B0:2887:A:O2'	22:B0:2888:C:H5'	2.14	0.47
23:B9:66:A:HO2'	23:B9:67:G:H8	1.58	0.47
23:B9:68:C:H2'	23:B9:69:G:C8	2.49	0.47
24:B2:46:ASN:O	24:B2:208:ILE:HA	2.14	0.47
24:B2:97:GLU:OE1	24:B2:122:VAL:HG11	2.14	0.47
27:BB:8:LYS:HA	27:BB:27:ILE:CD1	2.45	0.47
28:BC:23:PHE:HE1	28:BC:28:VAL:HG11	1.78	0.47
28:BC:31:VAL:C	28:BC:33:VAL:N	2.72	0.47
33:BH:84:ILE:HD13	33:BH:84:ILE:N	2.18	0.47
36:BK:37:GLY:H	36:BK:98:PRO:HA	1.78	0.47
37:BL:100:CYS:HB3	37:BL:111:ALA:HA	1.97	0.47
40:BO:102:LYS:H	40:BO:102:LYS:CD	2.27	0.47
46:BW:35:GLY:CA	46:BW:38:GLN:HE22	2.27	0.47
49:B1:35:LEU:HB3	49:B1:36:LYS:CE	2.44	0.47
1:AA:558:G:H2'	1:AA:559:A:C2	2.49	0.47
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.49	0.47
2:AU:75:C:H2'	22:B0:2559:C:N4	2.30	0.47
2:AV:53:G:H1	2:AV:61:C:H42	1.61	0.47
2:AW:32:C:H2'	2:AW:33:U:C6	2.48	0.47
2:AW:35:A:H2'	2:AW:36:A:H8	1.79	0.47
3:AB:113:LEU:O	3:AB:117:GLU:HG3	2.14	0.47
3:AB:140:LEU:O	3:AB:144:GLU:HG3	2.15	0.47
4:AC:29:ALA:CB	15:AN:99:SER:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:38:ALA:O	8:AG:42:VAL:HG23	2.14	0.47
14:AM:80:MET:HG3	14:AM:91:ARG:HE	1.78	0.47
14:AM:115:ILE:OXT	14:AM:115:ILE:HG13	2.14	0.47
16:AO:42:PHE:HZ	16:AO:52:ARG:HA	1.79	0.47
17:AP:35:ARG:H	17:AP:35:ARG:CD	2.23	0.47
18:AQ:43:LEU:HD22	18:AQ:72:TRP:CH2	2.50	0.47
22:B0:165:A:C5'	22:B0:172:A:OP1	2.59	0.47
22:B0:271:G:O6	22:B0:366:C:N3	2.48	0.47
22:B0:329:G:N1	43:BS:65:GLN:OE1	2.47	0.47
22:B0:479:A:C3'	22:B0:480:A:H5''	2.44	0.47
22:B0:481:G:H4'	22:B0:506:G:N2	2.22	0.47
22:B0:493:G:C5'	41:BQ:9:HIS:N	2.68	0.47
22:B0:750:A:O2'	22:B0:751:A:O5'	2.31	0.47
22:B0:959:A:OP2	36:BK:80:VAL:CG2	2.62	0.47
22:B0:1246:A:C5'	35:BJ:26:GLY:N	2.76	0.47
22:B0:1299:G:H1'	22:B0:1301:A:C2	2.49	0.47
22:B0:1484:U:OP1	26:BA:84:PRO:HB3	2.14	0.47
22:B0:1948:G:O2'	22:B0:1949:G:H5'	2.14	0.47
22:B0:2073:C:N3	22:B0:2437:G:N2	2.63	0.47
22:B0:2150:C:O3'	22:B0:2151:U:O4'	2.32	0.47
22:B0:2779:U:O2'	22:B0:2780:G:P	2.70	0.47
23:B9:102:G:H2'	23:B9:103:U:C6	2.49	0.47
26:BA:181:ARG:HA	26:BA:181:ARG:NE	2.25	0.47
28:BC:141:MET:O	28:BC:143:LEU:HD23	2.14	0.47
30:BE:132:LEU:HD12	30:BE:132:LEU:N	2.29	0.47
32:BG:36:GLU:O	32:BG:37:PHE:HB3	2.14	0.47
33:BH:138:GLN:CD	33:BH:138:GLN:N	2.72	0.47
36:BK:31:PHE:CD2	36:BK:106:ASP:HA	2.49	0.47
39:BN:37:LYS:HD2	39:BN:39:LEU:HB2	1.96	0.47
40:BO:68:ALA:C	40:BO:70:GLN:N	2.72	0.47
41:BQ:85:ILE:O	41:BQ:87:PRO:HD3	2.14	0.47
41:BQ:110:ARG:CZ	41:BQ:110:ARG:HA	2.44	0.47
42:BR:67:VAL:HG13	42:BR:76:ARG:H	1.80	0.47
1:AA:421:U:C4	5:AD:43:ARG:CB	2.98	0.47
1:AA:1413:A:H2'	1:AA:1414:U:C6	2.50	0.47
3:AB:34:ARG:HB3	3:AB:34:ARG:NH1	2.29	0.47
3:AB:186:VAL:HG21	3:AB:190:SER:HB3	1.95	0.47
4:AC:86:LEU:O	4:AC:90:VAL:HG23	2.14	0.47
5:AD:10:LEU:HD22	5:AD:62:ARG:NH1	2.29	0.47
8:AG:130:LYS:N	8:AG:134:VAL:HG21	2.29	0.47
12:AK:41:LEU:HD22	12:AK:41:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:8:LYS:HB2	21:AT:8:LYS:HZ3	1.79	0.47
22:B0:50:U:H4'	22:B0:51:G:OP2	2.14	0.47
22:B0:281:C:H2'	22:B0:282:A:C8	2.50	0.47
22:B0:535:G:H2'	22:B0:536:G:H8	1.80	0.47
22:B0:837:C:C4	22:B0:941:A:N6	2.83	0.47
22:B0:837:C:N4	22:B0:941:A:N6	2.63	0.47
22:B0:958:U:O5'	36:BK:80:VAL:HG23	2.14	0.47
22:B0:959:A:O5'	36:BK:79:ALA:O	2.32	0.47
22:B0:1076:C:O2'	32:BG:91:LYS:HB2	2.14	0.47
22:B0:1225:G:O2'	22:B0:1226:A:P	2.72	0.47
22:B0:1549:A:H2'	22:B0:1550:C:C6	2.49	0.47
22:B0:1940:U:O2'	22:B0:1941:C:H6	1.98	0.47
22:B0:2180:U:OP2	22:B0:2181:U:H6	1.96	0.47
22:B0:2654:A:H1'	22:B0:2656:U:C2	2.49	0.47
22:B0:2678:C:P	27:BB:125:TRP:HB2	2.54	0.47
26:BA:96:LYS:O	26:BA:97:ASP:C	2.57	0.47
29:BD:169:LEU:HD23	29:BD:169:LEU:C	2.39	0.47
33:BH:31:GLU:HA	33:BH:34:ARG:HG2	1.95	0.47
36:BK:86:LYS:HE2	36:BK:86:LYS:CA	2.44	0.47
39:BN:27:VAL:HG23	39:BN:27:VAL:O	2.15	0.47
40:BO:16:ILE:O	40:BO:17:LEU:HB2	2.13	0.47
40:BO:47:ARG:HA	40:BO:47:ARG:NE	2.30	0.47
40:BO:54:ARG:HH11	40:BO:54:ARG:HG3	1.80	0.47
42:BR:9:LYS:O	46:BW:29:ARG:NH2	2.48	0.47
43:BS:3:LYS:HB2	43:BS:5:ARG:HH12	1.79	0.47
46:BW:39:GLN:CD	46:BW:41:HIS:H	2.22	0.47
1:AA:140:U:H2'	1:AA:141:G:H8	1.80	0.47
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.47
1:AA:392:C:H2'	1:AA:393:A:C8	2.48	0.47
1:AA:456:A:H2'	1:AA:457:G:H8	1.80	0.47
1:AA:509:A:O2'	1:AA:510:A:P	2.73	0.47
1:AA:559:A:H4'	1:AA:560:A:H5''	1.96	0.47
1:AA:627:G:O2'	1:AA:628:G:H5'	2.15	0.47
1:AA:701:U:H5''	1:AA:703:G:C1'	2.45	0.47
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.49	0.47
1:AA:1269:A:H2	1:AA:1312:G:H21	1.63	0.47
1:AA:1409:C:C4'	22:B0:1913:A:H4'	2.27	0.47
1:AA:1425:U:H2'	1:AA:1426:G:C8	2.49	0.47
3:AB:52:ALA:CB	3:AB:199:ILE:HD11	2.44	0.47
3:AB:104:LYS:HD3	3:AB:104:LYS:C	2.39	0.47
4:AC:129:PHE:HB3	4:AC:156:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:90:LEU:HD12	5:AD:90:LEU:H	1.79	0.47
6:AE:156:ARG:HG3	9:AH:68:LYS:HZ1	1.80	0.47
7:AF:38:ARG:HG3	7:AF:39:LEU:N	2.29	0.47
8:AG:108:ARG:HA	8:AG:118:ARG:NH2	2.30	0.47
10:AI:27:ILE:HB	10:AI:34:LEU:CG	2.45	0.47
10:AI:74:GLN:O	10:AI:78:ILE:HG13	2.14	0.47
11:AJ:52:LEU:H	11:AJ:52:LEU:CD1	2.27	0.47
13:AL:30:ARG:HG3	13:AL:57:THR:HG23	1.96	0.47
15:AN:68:ARG:HB3	15:AN:79:SER:OG	2.14	0.47
20:AS:49:ALA:HA	20:AS:57:VAL:O	2.14	0.47
21:AT:66:ILE:HG23	21:AT:71:ALA:HB2	1.95	0.47
22:B0:151:C:OP1	22:B0:1360:G:H5'	2.15	0.47
22:B0:192:C:H2'	22:B0:193:U:H5'	1.97	0.47
22:B0:295:G:O2'	22:B0:296:U:H5'	2.15	0.47
22:B0:367:G:H2'	22:B0:368:A:C8	2.50	0.47
22:B0:387:U:H2'	22:B0:391:A:C8	2.50	0.47
22:B0:494:G:O6	41:BQ:8:ARG:CZ	2.63	0.47
22:B0:589:U:N3	28:BC:74:LYS:HE3	2.29	0.47
22:B0:631:A:H1'	35:BJ:66:PHE:HZ	1.80	0.47
22:B0:694:U:H3	22:B0:768:G:H1	1.62	0.47
22:B0:750:A:O2'	22:B0:751:A:O4'	2.33	0.47
22:B0:797:G:H2'	22:B0:798:G:H8	1.79	0.47
22:B0:843:G:N2	22:B0:937:C:N3	2.63	0.47
22:B0:958:U:C6	36:BK:80:VAL:HA	2.50	0.47
22:B0:1201:U:C2'	35:BJ:14:LYS:HE3	2.44	0.47
22:B0:1250:G:H5''	40:BO:5:ARG:NH1	2.30	0.47
22:B0:1311:G:H4'	22:B0:1313:U:H5	1.80	0.47
22:B0:1406:U:H2'	22:B0:1407:G:H8	1.79	0.47
22:B0:1421:G:C2	26:BA:148:GLY:N	2.81	0.47
22:B0:1421:G:C4	26:BA:149:LYS:CB	2.97	0.47
22:B0:1491:A:C6	26:BA:180:MET:HA	2.49	0.47
22:B0:1577:C:H4'	26:BA:62:ARG:H	1.79	0.47
22:B0:1583:G:N2	26:BA:94:LEU:O	2.41	0.47
22:B0:1705:A:H2'	22:B0:1706:C:O4'	2.14	0.47
22:B0:1758:U:P	22:B0:1759:A:OP2	2.73	0.47
22:B0:1794:A:H2'	22:B0:1795:C:C6	2.50	0.47
22:B0:1985:C:H2'	22:B0:1986:C:H6	1.78	0.47
22:B0:2167:U:O4	22:B0:2170:A:N6	2.44	0.47
22:B0:2207:C:H2'	22:B0:2208:C:C6	2.50	0.47
22:B0:2333:A:O2'	22:B0:2334:U:H5'	2.14	0.47
22:B0:2553:G:H2'	22:B0:2554:U:C4'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2690:U:H5	22:B0:2719:G:N2	2.13	0.47
22:B0:2837:A:H2'	22:B0:2838:G:H8	1.78	0.47
23:B9:99:A:H2'	23:B9:100:G:H5'	1.97	0.47
24:B2:26:ILE:N	24:B2:26:ILE:HD12	2.29	0.47
24:B2:52:ARG:HH11	24:B2:52:ARG:HG3	1.80	0.47
25:B5:47:ALA:C	25:B5:49:GLU:N	2.73	0.47
26:BA:73:ILE:HD13	26:BA:96:LYS:HE3	1.97	0.47
26:BA:131:MET:C	26:BA:133:ASN:H	2.23	0.47
26:BA:170:TYR:HA	26:BA:184:GLU:O	2.15	0.47
27:BB:4:LEU:HG	27:BB:5:VAL:H	1.79	0.47
27:BB:20:VAL:HG22	27:BB:21:SER:N	2.30	0.47
27:BB:122:VAL:HG23	27:BB:141:ARG:HA	1.96	0.47
27:BB:130:GLN:HB2	27:BB:139:SER:O	2.15	0.47
28:BC:36:ALA:CA	35:BJ:18:ARG:CZ	2.92	0.47
28:BC:88:ARG:HB3	35:BJ:29:LYS:O	2.14	0.47
31:BF:29:PHE:C	31:BF:32:PRO:HD2	2.40	0.47
31:BF:90:LEU:N	31:BF:90:LEU:HD12	2.29	0.47
32:BG:64:ARG:HG3	32:BG:64:ARG:HH11	1.78	0.47
32:BG:92:PRO:CB	32:BG:135:MET:HA	2.45	0.47
33:BH:104:ALA:C	33:BH:106:LYS:N	2.72	0.47
34:BI:43:ILE:HD13	34:BI:53:LYS:NZ	2.29	0.47
35:BJ:13:LYS:HD3	35:BJ:13:LYS:N	2.29	0.47
36:BK:112:LEU:HD13	36:BK:112:LEU:N	2.27	0.47
37:BL:71:ARG:NH1	37:BL:71:ARG:HB3	2.28	0.47
39:BN:20:ARG:HA	39:BN:20:ARG:HE	1.79	0.47
39:BN:29:VAL:HG13	39:BN:30:TRP:N	2.29	0.47
39:BN:48:ALA:HB3	39:BN:64:SER:OG	2.14	0.47
39:BN:65:ASN:ND2	39:BN:66:GLY:N	2.63	0.47
41:BQ:32:ALA:HB1	41:BQ:51:LEU:HD11	1.97	0.47
41:BQ:70:LYS:O	41:BQ:107:VAL:HA	2.15	0.47
42:BR:7:LEU:HD13	46:BW:22:LEU:CD2	2.44	0.47
42:BR:25:GLU:CG	42:BR:26:LYS:H	2.11	0.47
42:BR:42:GLU:C	42:BR:44:LYS:H	2.23	0.47
42:BR:85:VAL:HG13	42:BR:85:VAL:O	2.14	0.47
44:BT:34:LYS:H	44:BT:34:LYS:CD	2.28	0.47
45:BU:67:LYS:O	45:BU:68:PHE:HB2	2.14	0.47
46:BW:18:LEU:HD13	46:BW:18:LEU:C	2.40	0.47
47:BX:12:ALA:HA	47:BX:15:ARG:CZ	2.44	0.47
1:AA:19:A:H2'	1:AA:20:U:H6	1.80	0.47
1:AA:384:G:H2'	1:AA:385:C:C6	2.50	0.47
1:AA:427:U:C4	1:AA:428:G:N7	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:997:U:H2'	1:AA:998:C:C6	2.49	0.47
1:AA:1015:G:H5'	20:AS:9:PHE:HE2	1.80	0.47
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.80	0.47
1:AA:1219:A:H2'	1:AA:1220:G:C8	2.49	0.47
1:AA:1285:A:O2'	1:AA:1286:U:C5'	2.61	0.47
1:AA:1394:A:H5''	1:AA:1395:C:OP2	2.14	0.47
2:AV:59:U:H2'	2:AV:60:C:H5'	1.97	0.47
3:AB:16:GLY:CA	3:AB:39:ILE:HA	2.43	0.47
4:AC:24:ASN:ND2	4:AC:27:GLU:C	2.72	0.47
8:AG:145:GLU:HA	8:AG:148:LYS:HB3	1.96	0.47
8:AG:149:ALA:HB2	12:AK:60:PHE:CA	2.43	0.47
11:AJ:81:GLU:O	11:AJ:84:VAL:HG22	2.15	0.47
13:AL:30:ARG:HB2	13:AL:30:ARG:HH11	1.76	0.47
15:AN:68:ARG:NE	15:AN:70:HIS:HB3	2.30	0.47
16:AO:80:LEU:HD23	16:AO:80:LEU:C	2.39	0.47
20:AS:69:LYS:N	20:AS:69:LYS:HD2	2.29	0.47
21:AT:79:THR:HA	21:AT:82:ILE:HG12	1.96	0.47
22:B0:590:A:O2'	22:B0:591:U:H5'	2.15	0.47
22:B0:669:G:N3	22:B0:670:A:H2	2.13	0.47
22:B0:669:G:H1	28:BC:73:ILE:HG13	1.79	0.47
22:B0:825:A:H2	35:BJ:55:MET:HE2	1.79	0.47
22:B0:906:U:H2'	22:B0:907:G:O4'	2.15	0.47
22:B0:1201:U:O2	28:BC:40:ARG:NH1	2.48	0.47
22:B0:1284:A:H2'	22:B0:1284:A:N3	2.30	0.47
22:B0:1418:G:C6	26:BA:101:ARG:NE	2.83	0.47
22:B0:1496:A:H62	26:BA:194:VAL:HG22	1.75	0.47
22:B0:1497:U:C1'	26:BA:83:ASP:HB2	2.45	0.47
22:B0:1944:U:H4'	22:B0:1955:U:O2'	2.14	0.47
22:B0:2565:A:H2'	22:B0:2566:A:H1'	1.96	0.47
22:B0:2632:A:H61	22:B0:2785:C:N4	2.12	0.47
22:B0:2776:A:C5'	22:B0:2777:G:OP1	2.52	0.47
22:B0:2822:G:H2'	22:B0:2823:A:H5''	1.97	0.47
22:B0:2841:C:H2'	22:B0:2842:G:C8	2.49	0.47
22:B0:2897:U:H1'	33:BH:16:TYR:CG	2.50	0.47
24:B2:117:PRO:HA	24:B2:120:MET:HG2	1.97	0.47
27:BB:4:LEU:HG	27:BB:5:VAL:N	2.30	0.47
28:BC:31:VAL:CG1	35:BJ:17:LYS:HB3	2.43	0.47
28:BC:130:LYS:O	28:BC:160:ALA:HB1	2.13	0.47
28:BC:134:LEU:O	28:BC:138:LEU:HG	2.14	0.47
30:BE:84:LYS:HE3	30:BE:141:GLY:HA2	1.97	0.47
31:BF:123:ARG:CA	31:BF:123:ARG:HH11	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:73:PRO:HA	32:BG:77:VAL:HG22	1.96	0.47
32:BG:91:LYS:HG2	32:BG:91:LYS:O	2.15	0.47
35:BJ:99:ASN:C	35:BJ:101:ILE:H	2.23	0.47
37:BL:41:ALA:CA	37:BL:44:LEU:HB2	2.45	0.47
37:BL:73:ASN:O	37:BL:76:VAL:HG12	2.15	0.47
39:BN:55:HIS:CD2	39:BN:56:SER:H	2.33	0.47
40:BO:14:LYS:HB3	40:BO:14:LYS:NZ	2.30	0.47
40:BO:46:TYR:N	40:BO:46:TYR:CD1	2.83	0.47
40:BO:106:THR:O	40:BO:109:VAL:HG22	2.15	0.47
40:BO:113:LYS:O	40:BO:116:LEU:HD22	2.15	0.47
41:BQ:25:ARG:NE	41:BQ:25:ARG:N	2.54	0.47
41:BQ:99:ARG:HH11	41:BQ:99:ARG:HG3	1.79	0.47
41:BQ:110:ARG:HA	41:BQ:110:ARG:NE	2.29	0.47
43:BS:38:ILE:HD12	43:BS:64:ILE:HG12	1.96	0.47
45:BU:24:ARG:C	45:BU:58:LEU:HD11	2.40	0.47
1:AA:39:G:H2'	1:AA:40:C:C6	2.50	0.47
1:AA:103:U:H2'	1:AA:104:G:H8	1.80	0.47
1:AA:418:C:C6	1:AA:540:G:O3'	2.66	0.47
1:AA:492:C:H2'	1:AA:494:G:O4'	2.15	0.47
1:AA:939:G:N2	1:AA:1344:C:N3	2.63	0.47
1:AA:1310:G:H1	1:AA:1327:C:N4	2.13	0.47
1:AA:1477:U:H2'	1:AA:1478:U:C6	2.49	0.47
4:AC:51:VAL:O	4:AC:51:VAL:HG13	2.14	0.47
4:AC:69:THR:O	4:AC:104:GLU:HA	2.15	0.47
4:AC:128:MET:HE3	6:AE:54:GLU:HG2	1.97	0.47
6:AE:45:VAL:HG11	6:AE:113:VAL:HG13	1.95	0.47
6:AE:82:HIS:CD2	9:AH:95:MET:HG3	2.50	0.47
7:AF:88:MET:N	7:AF:88:MET:SD	2.88	0.47
9:AH:51:GLU:HG3	9:AH:52:GLY:N	2.30	0.47
10:AI:20:ILE:HG12	10:AI:62:LEU:CD2	2.45	0.47
10:AI:79:ARG:HD2	10:AI:102:PHE:CD1	2.49	0.47
21:AT:50:PHE:CD1	21:AT:78:LEU:HD22	2.50	0.47
21:AT:84:LYS:HE3	21:AT:84:LYS:CA	2.42	0.47
22:B0:215:G:H5''	22:B0:216:A:OP1	2.15	0.47
22:B0:486:C:O2'	41:BQ:57:ASN:HB2	2.15	0.47
22:B0:495:G:N2	41:BQ:57:ASN:ND2	2.62	0.47
22:B0:517:C:H2'	22:B0:518:G:C8	2.50	0.47
22:B0:604:G:H2'	22:B0:605:G:H8	1.80	0.47
22:B0:629:G:H4'	22:B0:638:G:N2	2.24	0.47
22:B0:802:A:N6	28:BC:61:ARG:HD3	2.30	0.47
22:B0:899:A:H2'	22:B0:900:A:C8	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1085:A:O2'	22:B0:1104:C:H1'	2.14	0.47
22:B0:1200:C:H2'	22:B0:1201:U:N1	2.29	0.47
22:B0:1488:G:O6	26:BA:157:ALA:N	2.48	0.47
22:B0:1496:A:O4'	26:BA:190:THR:CG2	2.63	0.47
22:B0:1696:G:H2'	22:B0:1697:G:O4'	2.14	0.47
22:B0:1833:C:H2'	22:B0:1834:U:C6	2.50	0.47
22:B0:1846:G:H2'	22:B0:1847:A:C8	2.50	0.47
22:B0:2067:G:H1	22:B0:2442:C:H42	1.63	0.47
22:B0:2116:G:OP1	22:B0:2117:A:C4'	2.63	0.47
22:B0:2132:U:OP2	24:B2:7:MET:CE	2.62	0.47
22:B0:2138:G:C4'	22:B0:2139:U:O5'	2.63	0.47
22:B0:2176:A:C3'	24:B2:166:LYS:HA	2.37	0.47
22:B0:2323:G:H21	22:B0:2337:G:C4'	2.28	0.47
22:B0:2333:A:C5'	22:B0:2334:U:OP1	2.55	0.47
22:B0:2458:G:H2'	22:B0:2490:G:H22	1.80	0.47
22:B0:2520:C:O2	22:B0:2520:C:H2'	2.14	0.47
22:B0:2550:G:H22	22:B0:2558:C:N4	2.12	0.47
22:B0:2668:G:H2'	22:B0:2669:G:C8	2.50	0.47
22:B0:2700:A:H3'	22:B0:2702:G:C5'	2.45	0.47
22:B0:2705:A:H2'	22:B0:2707:U:O4'	2.15	0.47
22:B0:2718:G:H2'	22:B0:2719:G:C8	2.50	0.47
25:B5:59:LYS:HD3	25:B5:116:GLU:OE2	2.14	0.47
28:BC:63:LYS:O	28:BC:65:THR:HG23	2.14	0.47
32:BG:35:MET:CE	32:BG:36:GLU:HG2	2.45	0.47
37:BL:34:ILE:HD13	37:BL:113:ILE:HB	1.96	0.47
40:BO:17:LEU:HD11	40:BO:31:TYR:HD1	1.80	0.47
42:BR:9:LYS:HA	46:BW:29:ARG:CZ	2.45	0.47
49:B1:6:GLU:HB3	49:B1:26:LYS:CB	2.45	0.47
1:AA:61:G:H2'	1:AA:62:U:O4'	2.14	0.47
1:AA:140:U:H2'	1:AA:141:G:C8	2.49	0.47
1:AA:156:C:H2'	1:AA:157:U:C6	2.50	0.47
1:AA:247:G:O2'	1:AA:248:C:H5'	2.15	0.47
1:AA:415:A:N6	1:AA:416:G:C6	2.83	0.47
1:AA:418:C:H6	1:AA:540:G:O3'	1.96	0.47
1:AA:554:A:H2'	1:AA:555:U:C6	2.50	0.47
1:AA:673:A:H2'	1:AA:674:G:C8	2.49	0.47
1:AA:687:A:O2'	1:AA:688:G:P	2.73	0.47
1:AA:751:U:H3	1:AA:754:C:H42	1.62	0.47
1:AA:810:C:O2'	1:AA:811:C:H5'	2.15	0.47
1:AA:827:U:C5'	9:AH:15:ASN:HD21	2.21	0.47
1:AA:1215:G:H8	1:AA:1215:G:OP2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:135:MET:O	3:AB:139:GLU:HG3	2.15	0.47
4:AC:46:LEU:N	4:AC:46:LEU:HD22	2.30	0.47
7:AF:50:PRO:O	7:AF:51:ILE:O	2.33	0.47
8:AG:78:ARG:HG3	8:AG:83:THR:CG2	2.35	0.47
12:AK:85:VAL:HG11	12:AK:92:ARG:HD2	1.96	0.47
12:AK:121:ARG:HH11	12:AK:121:ARG:HG3	1.80	0.47
12:AK:122:PRO:HA	12:AK:123:PRO:HD3	1.79	0.47
14:AM:16:ILE:O	14:AM:19:THR:N	2.49	0.47
14:AM:68:LEU:HD23	14:AM:68:LEU:O	2.15	0.47
22:B0:226:A:N6	22:B0:410:G:H1'	2.30	0.47
22:B0:362:A:H4'	22:B0:363:G:OP1	2.14	0.47
22:B0:516:C:H2'	22:B0:517:C:C6	2.50	0.47
22:B0:535:G:H1'	40:BO:52:ARG:HD2	1.97	0.47
22:B0:710:U:H2'	22:B0:711:G:C8	2.50	0.47
22:B0:926:G:HO2'	22:B0:928:A:P	2.36	0.47
22:B0:987:C:H1'	22:B0:1001:A:H4'	1.97	0.47
22:B0:1022:G:O5'	22:B0:1023:U:O5'	2.32	0.47
22:B0:1046:A:C2	25:B5:24:SER:O	2.67	0.47
22:B0:1418:G:O6	26:BA:101:ARG:HB2	2.15	0.47
22:B0:1488:G:N7	26:BA:158:GLY:HA3	2.29	0.47
22:B0:1939:U:C4'	22:B0:2592:G:H5'	2.42	0.47
22:B0:2093:G:N2	22:B0:2197:U:H1'	2.29	0.47
22:B0:2127:G:C8	22:B0:2166:U:H5'	2.49	0.47
22:B0:2164:C:O2'	22:B0:2165:C:O2	2.23	0.47
22:B0:2660:A:H2'	22:B0:2661:G:O4'	2.15	0.47
23:B9:24:G:H2'	23:B9:26:C:C4	2.49	0.47
24:B2:8:ARG:O	24:B2:12:GLU:HG3	2.15	0.47
25:B3:49:GLU:HA	25:B3:51:LYS:CE	2.45	0.47
26:BA:100:ARG:O	26:BA:101:ARG:CG	2.62	0.47
26:BA:109:LEU:HD22	26:BA:109:LEU:N	2.30	0.47
27:BB:83:ARG:HG3	27:BB:83:ARG:NH1	2.29	0.47
28:BC:34:ALA:CB	35:BJ:19:LEU:H	2.03	0.47
29:BD:32:LYS:HD2	29:BD:32:LYS:C	2.40	0.47
29:BD:129:MET:CG	29:BD:152:ASP:HB3	2.44	0.47
29:BD:165:GLY:C	29:BD:167:ALA:N	2.73	0.47
31:BF:42:LYS:N	31:BF:42:LYS:HD2	2.29	0.47
33:BH:117:ALA:O	33:BH:121:LYS:HG2	2.14	0.47
34:BI:22:ILE:HD11	34:BI:42:THR:CG2	2.43	0.47
35:BJ:105:ILE:HG13	35:BJ:106:GLU:OE2	2.14	0.47
36:BK:18:ARG:HH11	36:BK:50:ARG:HG3	1.79	0.47
36:BK:32:GLY:HA2	36:BK:104:GLU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:50:ARG:HD3	39:BN:62:LYS:HB2	1.97	0.47
41:BQ:10:ALA:HA	41:BQ:11:ARG:HE	1.79	0.47
42:BR:24:MET:CG	42:BR:30:ILE:HD13	2.45	0.47
45:BU:47:GLY:C	45:BU:54:ARG:HB3	2.40	0.47
49:B1:7:LYS:HD3	49:B1:7:LYS:N	2.30	0.47
1:AA:163:C:H2'	1:AA:164:G:H8	1.80	0.46
1:AA:187:G:N2	1:AA:191:G:H1'	2.29	0.46
1:AA:714:G:H2'	1:AA:715:A:C8	2.50	0.46
1:AA:817:C:O2'	1:AA:818:G:H5''	2.14	0.46
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.50	0.46
1:AA:1117:A:O4'	10:AI:107:ALA:HB2	2.14	0.46
1:AA:1447:A:H2'	1:AA:1447:A:N3	2.30	0.46
1:AA:1451:U:H5''	1:AA:1452:C:C5	2.48	0.46
3:AB:150:ILE:HG13	3:AB:150:ILE:O	2.15	0.46
5:AD:128:VAL:HG22	5:AD:145:ARG:HD3	1.96	0.46
6:AE:10:LEU:HD21	6:AE:38:VAL:CB	2.45	0.46
6:AE:39:GLY:HA3	6:AE:116:VAL:HB	1.97	0.46
9:AH:86:LYS:CE	9:AH:91:LEU:HG	2.44	0.46
17:AP:35:ARG:HD2	17:AP:35:ARG:N	2.23	0.46
21:AT:24:ARG:O	21:AT:27:MET:HB3	2.15	0.46
22:B0:185:G:H4'	22:B0:218:A:C4'	2.44	0.46
22:B0:278:A:O4'	22:B0:362:A:N3	2.48	0.46
22:B0:535:G:H2'	22:B0:536:G:C8	2.50	0.46
22:B0:571:U:C5'	22:B0:572:A:OP1	2.63	0.46
22:B0:582:A:H5''	40:BO:10:ARG:CD	2.45	0.46
22:B0:636:G:O3'	22:B0:637:A:H4'	2.14	0.46
22:B0:811:U:C2	22:B0:1251:C:H1'	2.50	0.46
22:B0:942:G:H5''	35:BJ:42:SER:OG	2.15	0.46
22:B0:1328:A:H4'	22:B0:1329:U:H5	1.80	0.46
22:B0:1417:U:C5	26:BA:100:ARG:N	2.83	0.46
22:B0:1565:C:O2	22:B0:1567:G:O4'	2.33	0.46
22:B0:1698:A:C1'	22:B0:1700:A:H5''	2.45	0.46
22:B0:1816:C:H1'	26:BA:49:THR:OG1	2.14	0.46
22:B0:1899:A:H4'	22:B0:1901:A:OP2	2.14	0.46
22:B0:1996:C:O2'	22:B0:1997:C:P	2.73	0.46
22:B0:2320:U:O2	22:B0:2320:U:C2'	2.58	0.46
22:B0:2855:C:H3'	22:B0:2856:A:H5''	1.96	0.46
22:B0:2894:U:H5'	33:BH:6:ALA:CB	2.20	0.46
24:B2:99:LEU:HD12	24:B2:99:LEU:N	2.30	0.46
27:BB:13:ARG:HG2	27:BB:14:ILE:N	2.30	0.46
28:BC:28:VAL:O	28:BC:31:VAL:HB	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:58:ILE:HD12	32:BG:58:ILE:N	2.31	0.46
32:BG:102:ARG:NH1	32:BG:102:ARG:HB3	2.30	0.46
34:BI:51:LYS:O	34:BI:52:VAL:C	2.58	0.46
37:BL:64:ARG:HH22	37:BL:67:PHE:CB	2.06	0.46
40:BO:46:TYR:O	40:BO:47:ARG:NH1	2.48	0.46
40:BO:102:LYS:NZ	40:BO:103:VAL:HG13	2.30	0.46
42:BR:18:GLU:HA	42:BR:21:SER:OG	2.15	0.46
42:BR:93:LEU:O	42:BR:94:ASP:HB3	2.15	0.46
43:BS:57:ILE:O	43:BS:57:ILE:HG23	2.15	0.46
49:B1:35:LEU:HD23	49:B1:50:GLU:OE2	2.15	0.46
1:AA:47:C:H1'	1:AA:365:U:H3	1.79	0.46
1:AA:68:G:H1	1:AA:101:A:N6	2.13	0.46
1:AA:163:C:O2'	1:AA:164:G:H5'	2.15	0.46
1:AA:358:U:H2'	1:AA:359:G:C8	2.50	0.46
1:AA:424:G:C6	1:AA:425:G:C5	3.03	0.46
1:AA:614:C:H2'	1:AA:615:G:H8	1.78	0.46
1:AA:826:C:O3'	9:AH:15:ASN:ND2	2.48	0.46
1:AA:1182:G:H4'	1:AA:1183:U:C5'	2.45	0.46
1:AA:1301:U:H4'	14:AM:12:LYS:HG2	1.97	0.46
2:AU:56:C:H2'	2:AU:57:G:H8	1.79	0.46
2:AU:63:C:H2'	2:AU:64:A:H8	1.80	0.46
2:AV:63:C:H2'	2:AV:64:A:C8	2.50	0.46
3:AB:231:GLN:HG2	3:AB:233:GLU:H	1.80	0.46
5:AD:10:LEU:O	5:AD:14:GLU:HG2	2.14	0.46
7:AF:39:LEU:CD2	7:AF:62:MET:HG2	2.40	0.46
7:AF:45:ARG:HB2	7:AF:59:TYR:CE1	2.50	0.46
13:AL:33:CYS:SG	13:AL:77:SER:HB2	2.55	0.46
16:AO:56:LEU:HD23	22:B0:715:A:C8	2.49	0.46
16:AO:81:ILE:HD12	16:AO:81:ILE:H	1.80	0.46
18:AQ:31:PRO:C	18:AQ:32:ILE:HD12	2.40	0.46
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HG13	1.97	0.46
18:AQ:61:ARG:CG	18:AQ:75:VAL:HG21	2.45	0.46
21:AT:81:GLN:O	21:AT:85:LEU:HD13	2.16	0.46
22:B0:781:A:H1'	22:B0:1789:A:C4'	2.40	0.46
22:B0:856:G:H4'	45:BU:54:ARG:HD2	1.96	0.46
22:B0:960:A:C2	22:B0:2497:A:C5'	2.99	0.46
22:B0:977:G:O2'	22:B0:1001:A:N3	2.44	0.46
22:B0:1109:C:N4	22:B0:1110:G:N2	2.63	0.46
22:B0:1138:G:H2'	22:B0:1139:G:O4'	2.15	0.46
22:B0:1385:A:H2	22:B0:1402:U:H3	1.62	0.46
22:B0:1424:G:H2'	22:B0:1425:G:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1488:G:O4'	26:BA:198:GLU:HA	2.14	0.46
22:B0:1490:C:H4'	26:BA:161:VAL:C	2.40	0.46
22:B0:1579:A:C5	26:BA:66:PHE:C	2.87	0.46
22:B0:1834:U:O2	22:B0:1969:A:H2	1.97	0.46
22:B0:2109:U:O2'	22:B0:2110:G:C5'	2.63	0.46
22:B0:2129:C:OP1	22:B0:2165:C:O2	2.34	0.46
22:B0:2644:G:H1'	22:B0:2645:G:O4'	2.15	0.46
22:B0:2819:G:O2'	22:B0:2820:A:P	2.73	0.46
22:B0:2864:G:H2'	22:B0:2865:U:C6	2.51	0.46
23:B9:16:G:H2'	23:B9:17:C:C5'	2.45	0.46
24:B2:93:LEU:N	24:B2:93:LEU:HD12	2.30	0.46
26:BA:71:ASP:HB2	26:BA:119:VAL:N	2.27	0.46
28:BC:44:ARG:HA	28:BC:90:GLN:N	2.29	0.46
28:BC:79:ARG:HD2	28:BC:79:ARG:C	2.40	0.46
28:BC:176:ASP:C	28:BC:178:VAL:N	2.73	0.46
28:BC:182:ALA:HA	35:BJ:16:GLY:CA	2.36	0.46
31:BF:15:LEU:HD22	31:BF:15:LEU:N	2.30	0.46
32:BG:81:LYS:HE2	32:BG:81:LYS:CA	2.44	0.46
37:BL:22:ARG:HD2	37:BL:22:ARG:N	2.30	0.46
37:BL:23:ASN:O	37:BL:24:MET:HB2	2.15	0.46
37:BL:40:LYS:CG	37:BL:41:ALA:H	2.27	0.46
37:BL:94:TYR:CD1	37:BL:94:TYR:N	2.83	0.46
39:BN:24:THR:N	39:BN:49:ILE:HG12	2.30	0.46
39:BN:28:LYS:HE2	39:BN:86:LYS:HB3	1.97	0.46
39:BN:47:ILE:HG22	39:BN:48:ALA:N	2.26	0.46
39:BN:63:ILE:CD1	39:BN:74:GLN:HG2	2.45	0.46
39:BN:96:LEU:O	39:BN:97:TYR:CB	2.60	0.46
41:BQ:16:LYS:NZ	41:BQ:18:ARG:HH12	2.12	0.46
45:BU:17:ALA:CB	45:BU:35:ILE:HA	2.45	0.46
45:BU:78:PHE:CG	45:BU:79:ILE:N	2.83	0.46
1:AA:61:G:O2'	1:AA:62:U:H5'	2.15	0.46
1:AA:149:A:H2'	1:AA:150:U:C6	2.51	0.46
1:AA:313:A:H2'	1:AA:314:C:C6	2.50	0.46
1:AA:902:G:O2'	1:AA:903:G:H5'	2.15	0.46
1:AA:934:C:C5'	1:AA:935:A:OP1	2.62	0.46
1:AA:945:G:H5'	1:AA:945:G:H8	1.80	0.46
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.15	0.46
2:AW:16:U:H4'	2:AW:17:U:O5'	2.16	0.46
5:AD:52:VAL:O	5:AD:56:GLU:HB2	2.14	0.46
5:AD:88:ASN:O	5:AD:92:LEU:HD13	2.16	0.46
5:AD:166:LYS:HB3	5:AD:167:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:87:VAL:O	6:AE:87:VAL:HG23	2.14	0.46
7:AF:18:VAL:C	7:AF:20:GLY:H	2.24	0.46
8:AG:27:ASN:O	8:AG:30:MET:HB3	2.16	0.46
11:AJ:71:LEU:HD12	11:AJ:71:LEU:N	2.30	0.46
11:AJ:80:THR:H	11:AJ:83:THR:HB	1.80	0.46
20:AS:14:LEU:C	20:AS:14:LEU:HD12	2.40	0.46
22:B0:49:A:N6	22:B0:177:G:C2	2.84	0.46
22:B0:460:A:H5''	42:BR:72:GLN:HB2	1.97	0.46
22:B0:529:A:N7	22:B0:2042:A:C2	2.78	0.46
22:B0:609:A:H3'	22:B0:610:C:C6	2.50	0.46
22:B0:633:A:H2'	22:B0:634:C:H5'	1.96	0.46
22:B0:664:G:H2'	22:B0:665:U:C6	2.51	0.46
22:B0:978:G:O2'	22:B0:979:A:H5'	2.16	0.46
22:B0:1107:G:H2'	22:B0:1108:U:C6	2.51	0.46
22:B0:1171:G:N1	22:B0:1178:C:N4	2.63	0.46
22:B0:1181:U:H2'	22:B0:1182:G:C8	2.51	0.46
22:B0:1344:U:O2'	22:B0:1384:A:H2'	2.14	0.46
22:B0:1410:G:O2'	22:B0:1411:U:P	2.73	0.46
22:B0:1422:G:P	26:BA:57:HIS:HB3	2.54	0.46
22:B0:1489:U:H5'	26:BA:200:MET:SD	2.56	0.46
22:B0:1540:A:O5'	22:B0:1540:A:C8	2.66	0.46
22:B0:1758:U:O2	22:B0:1758:U:C2'	2.62	0.46
22:B0:2142:A:H2'	22:B0:2142:A:N3	2.29	0.46
22:B0:2161:C:H6	24:B2:5:LYS:HB3	1.80	0.46
22:B0:2215:C:H2'	22:B0:2216:G:H8	1.80	0.46
22:B0:2262:U:O5'	22:B0:2262:U:H6	1.98	0.46
22:B0:2288:A:H8	22:B0:2288:A:OP1	1.98	0.46
22:B0:2688:G:H21	22:B0:2721:A:H62	1.62	0.46
22:B0:2788:C:H2'	22:B0:2891:A:C5	2.50	0.46
22:B0:2848:G:H1'	22:B0:2868:A:H61	1.80	0.46
28:BC:60:TRP:HD1	28:BC:62:GLN:HG3	1.80	0.46
28:BC:88:ARG:HB2	35:BJ:30:THR:CB	2.42	0.46
28:BC:136:GLN:HE21	28:BC:136:GLN:HA	1.80	0.46
29:BD:65:LEU:H	29:BD:88:VAL:HG21	1.80	0.46
29:BD:105:ILE:C	29:BD:107:VAL:N	2.72	0.46
30:BE:114:HIS:HB2	30:BE:150:TYR:CE2	2.50	0.46
31:BF:11:ASN:O	31:BF:12:LEU:HD22	2.15	0.46
31:BF:123:ARG:HH11	31:BF:123:ARG:HA	1.79	0.46
32:BG:75:ALA:C	32:BG:77:VAL:H	2.23	0.46
33:BH:138:GLN:H	33:BH:138:GLN:NE2	2.14	0.46
39:BN:79:VAL:HG22	39:BN:80:VAL:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:82:LEU:HD13	40:BO:82:LEU:C	2.41	0.46
41:BQ:8:ARG:HG2	41:BQ:9:HIS:CD2	2.48	0.46
42:BR:11:LEU:HB2	42:BR:32:LEU:CD2	2.45	0.46
42:BR:77:ARG:HH11	42:BR:77:ARG:HG2	1.81	0.46
45:BU:66:VAL:CG2	45:BU:67:LYS:H	2.15	0.46
1:AA:142:G:O2'	1:AA:143:A:H5'	2.16	0.46
1:AA:234:C:H2'	1:AA:235:C:C6	2.51	0.46
1:AA:518:C:H4'	1:AA:519:C:H6	1.80	0.46
1:AA:572:A:H4'	1:AA:917:G:C4'	2.43	0.46
1:AA:817:C:H1'	1:AA:819:A:H5'	1.97	0.46
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.81	0.46
1:AA:1454:G:O3'	21:AT:26:MET:HE1	2.16	0.46
2:AU:75:C:O5'	22:B0:2557:G:H5''	2.15	0.46
5:AD:10:LEU:HD22	5:AD:62:ARG:CZ	2.45	0.46
7:AF:7:VAL:CG2	7:AF:88:MET:H	2.28	0.46
8:AG:22:LEU:HD12	8:AG:22:LEU:N	2.30	0.46
8:AG:41:ILE:N	8:AG:41:ILE:HD12	2.31	0.46
8:AG:136:LYS:O	8:AG:140:VAL:HG23	2.15	0.46
15:AN:40:ARG:NH1	20:AS:14:LEU:HA	2.31	0.46
15:AN:97:LYS:HB3	15:AN:97:LYS:HZ2	1.80	0.46
16:AO:59:VAL:HG11	22:B0:715:A:C4'	2.46	0.46
20:AS:52:ASN:HD22	20:AS:52:ASN:N	2.14	0.46
22:B0:153:U:H2'	22:B0:154:U:C6	2.50	0.46
22:B0:588:U:C6	28:BC:81:GLY:O	2.68	0.46
22:B0:589:U:OP2	28:BC:44:ARG:CB	2.63	0.46
22:B0:664:G:H2'	22:B0:665:U:H6	1.80	0.46
22:B0:961:C:C2	22:B0:2499:C:H5	2.33	0.46
22:B0:1024:G:H5'	22:B0:1025:G:C1'	2.44	0.46
22:B0:1047:G:H2'	22:B0:1110:G:N2	2.22	0.46
22:B0:1084:A:N3	22:B0:1105:U:O2'	2.44	0.46
22:B0:1110:G:C5'	22:B0:1111:A:OP1	2.64	0.46
22:B0:1112:G:H2'	22:B0:1113:U:C6	2.51	0.46
22:B0:1495:A:OP1	26:BA:189:ALA:CB	2.62	0.46
22:B0:1974:C:H2'	22:B0:1975:G:O4'	2.15	0.46
22:B0:2119:A:C2'	22:B0:2121:G:H5'	2.45	0.46
22:B0:2176:A:H5'	24:B2:166:LYS:HA	1.98	0.46
22:B0:2685:G:H2'	22:B0:2686:G:C8	2.50	0.46
22:B0:2789:C:C5'	22:B0:2892:G:H21	2.28	0.46
22:B0:2836:U:H2'	22:B0:2837:A:C8	2.51	0.46
25:B3:4:LYS:HE3	25:B3:7:ILE:HD12	1.98	0.46
26:BA:62:ARG:O	26:BA:64:VAL:HG23	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:104:LEU:HD13	26:BA:104:LEU:C	2.40	0.46
27:BB:119:ALA:HB1	27:BB:123:LYS:HE2	1.98	0.46
27:BB:179:ARG:HG2	27:BB:180:VAL:N	2.30	0.46
32:BG:52:LEU:HD11	32:BG:73:PRO:HB2	1.96	0.46
32:BG:99:LYS:HD2	32:BG:99:LYS:C	2.41	0.46
32:BG:109:ALA:O	32:BG:110:GLN:HB2	2.14	0.46
33:BH:1:MET:HG3	33:BH:2:LYS:HG3	1.96	0.46
33:BH:101:ILE:HD11	33:BH:124:VAL:HB	1.96	0.46
37:BL:113:ILE:HD12	37:BL:113:ILE:N	2.22	0.46
38:BM:15:ARG:H	38:BM:15:ARG:CZ	2.28	0.46
41:BQ:36:LEU:HD21	41:BQ:48:LYS:HA	1.96	0.46
42:BR:7:LEU:HB3	46:BW:26:PHE:HD2	1.79	0.46
43:BS:44:HIS:HE2	43:BS:46:LYS:HD2	1.81	0.46
46:BW:44:LYS:O	46:BW:47:ARG:HG2	2.15	0.46
47:BX:28:LEU:HD11	47:BX:35:VAL:CG1	2.45	0.46
49:B1:46:VAL:HG12	49:B1:47:ILE:N	2.31	0.46
1:AA:35:G:H2'	1:AA:36:C:C6	2.50	0.46
1:AA:335:C:H2'	1:AA:336:A:C8	2.49	0.46
1:AA:792:A:H4'	1:AA:793:U:H5'	1.95	0.46
1:AA:831:A:H2'	1:AA:832:G:C8	2.50	0.46
1:AA:848:C:H2'	1:AA:849:G:H8	1.79	0.46
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.51	0.46
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.45	0.46
2:AW:40:C:H2'	2:AW:41:U:C6	2.51	0.46
3:AB:99:MET:HA	3:AB:106:VAL:HG21	1.96	0.46
9:AH:9:MET:HB2	9:AH:26:MET:HE3	1.98	0.46
10:AI:11:ARG:NE	10:AI:12:LYS:HE3	2.30	0.46
11:AJ:32:THR:HG21	11:AJ:83:THR:HA	1.97	0.46
12:AK:18:GLY:H	12:AK:81:LEU:HD23	1.80	0.46
12:AK:95:THR:O	12:AK:99:LEU:HG	2.16	0.46
13:AL:42:LYS:HE3	13:AL:44:PRO:HG3	1.97	0.46
15:AN:63:CYS:HB3	15:AN:68:ARG:H	1.80	0.46
17:AP:36:VAL:HG22	17:AP:52:LEU:O	2.16	0.46
17:AP:77:GLU:O	17:AP:78:VAL:HG22	2.15	0.46
22:B0:150:U:H2'	22:B0:151:C:C6	2.49	0.46
22:B0:188:G:H2'	22:B0:189:G:O4'	2.16	0.46
22:B0:301:G:C4'	22:B0:302:C:OP1	2.59	0.46
22:B0:504:A:OP2	22:B0:504:A:H4'	2.15	0.46
22:B0:593:U:H3	22:B0:664:G:H22	1.63	0.46
22:B0:705:A:N6	22:B0:726:G:O2'	2.49	0.46
22:B0:802:A:C6	28:BC:61:ARG:NH1	2.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:821:A:H2'	22:B0:946:C:H5''	1.96	0.46
22:B0:837:C:N3	22:B0:942:G:C6	2.84	0.46
22:B0:1143:A:H4'	22:B0:1144:A:OP1	2.14	0.46
22:B0:1264:A:C2	22:B0:2016:U:O4	2.68	0.46
22:B0:1580:A:O5'	26:BA:68:ARG:CB	2.61	0.46
22:B0:1580:A:N7	26:BA:68:ARG:HG2	2.31	0.46
22:B0:1633:G:H1	22:B0:1635:A:H1'	1.80	0.46
22:B0:1669:A:H2'	22:B0:1670:C:H5'	1.96	0.46
22:B0:1996:C:C6	27:BB:137:SER:O	2.69	0.46
22:B0:2065:C:O2'	22:B0:2066:C:H5'	2.16	0.46
24:B2:149:ALA:O	24:B2:153:LYS:HG3	2.15	0.46
25:B5:56:VAL:HG13	25:B5:117:VAL:HG11	1.97	0.46
28:BC:7:ASP:CG	28:BC:8:ALA:N	2.74	0.46
28:BC:36:ALA:HB2	35:BJ:18:ARG:CD	2.46	0.46
28:BC:92:HIS:CD2	35:BJ:25:SER:OG	2.68	0.46
28:BC:159:LEU:C	28:BC:161:ALA:H	2.23	0.46
29:BD:79:ARG:CB	29:BD:79:ARG:HH11	2.29	0.46
29:BD:103:ILE:HG13	29:BD:173:ASP:OD2	2.16	0.46
32:BG:27:LEU:HD12	32:BG:27:LEU:N	2.30	0.46
33:BH:30:THR:O	33:BH:31:GLU:HB2	2.15	0.46
34:BI:114:LYS:O	34:BI:118:LEU:HD23	2.16	0.46
37:BL:50:PRO:O	37:BL:51:LEU:CB	2.58	0.46
40:BO:8:ILE:O	40:BO:9:ALA:HB3	2.15	0.46
40:BO:60:TRP:HB3	40:BO:91:ARG:HH12	1.80	0.46
40:BO:82:LEU:HD11	40:BO:89:ILE:O	2.16	0.46
42:BR:42:GLU:C	42:BR:44:LYS:N	2.70	0.46
1:AA:33:A:H4'	1:AA:364:A:O4'	2.15	0.46
1:AA:37:U:H5''	13:AL:120:ARG:NH1	2.30	0.46
1:AA:119:A:H1'	1:AA:120:A:C5	2.51	0.46
1:AA:268:U:H2'	1:AA:269:C:C6	2.50	0.46
1:AA:417:G:C2	1:AA:427:U:C2	3.03	0.46
1:AA:894:G:H2'	1:AA:895:G:H8	1.78	0.46
1:AA:958:A:H2'	1:AA:959:A:O4'	2.16	0.46
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.80	0.46
1:AA:1101:A:H5'	1:AA:1102:A:OP1	2.15	0.46
1:AA:1128:C:H2'	1:AA:1139:G:O6	2.15	0.46
1:AA:1233:G:H2'	1:AA:1234:C:C6	2.50	0.46
2:AU:14:A:H2'	2:AU:15:G:O4'	2.16	0.46
3:AB:66:ILE:HD12	3:AB:159:ALA:HB3	1.97	0.46
5:AD:20:LEU:HD22	5:AD:20:LEU:N	2.30	0.46
5:AD:88:ASN:O	5:AD:91:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:80:MET:CG	14:AM:91:ARG:HE	2.28	0.46
22:B0:26:G:H2'	22:B0:27:G:O4'	2.15	0.46
22:B0:243:U:H2'	22:B0:244:A:H8	1.80	0.46
22:B0:323:C:N4	28:BC:159:LEU:O	2.49	0.46
22:B0:411:G:C5'	22:B0:412:A:OP1	2.54	0.46
22:B0:516:C:H4'	22:B0:1262:A:H4'	1.97	0.46
22:B0:762:U:C2'	22:B0:763:G:OP2	2.63	0.46
22:B0:803:U:N3	28:BC:61:ARG:CZ	2.77	0.46
22:B0:843:G:C2	22:B0:936:A:N1	2.83	0.46
22:B0:850:U:O5'	22:B0:850:U:H6	1.98	0.46
22:B0:858:G:HO2'	22:B0:859:G:P	2.39	0.46
22:B0:1045:C:C4'	25:B5:29:LYS:HE3	2.39	0.46
22:B0:1493:A:C2	26:BA:131:MET:HE1	2.50	0.46
22:B0:1579:A:C4	26:BA:66:PHE:C	2.93	0.46
22:B0:1691:C:N4	22:B0:1697:G:N2	2.64	0.46
22:B0:1761:C:H2'	22:B0:1762:A:H5'	1.95	0.46
22:B0:1802:A:N6	22:B0:1817:G:N2	2.64	0.46
22:B0:2006:C:O5'	22:B0:2006:C:H6	1.99	0.46
22:B0:2181:U:H2'	22:B0:2182:U:O4'	2.16	0.46
22:B0:2545:G:H1'	22:B0:2565:A:N1	2.30	0.46
22:B0:2678:C:OP2	27:BB:124:ARG:CB	2.64	0.46
26:BA:45:ASN:OD1	26:BA:46:GLY:N	2.49	0.46
26:BA:74:PRO:HA	26:BA:116:GLN:HA	1.98	0.46
27:BB:1:MET:HA	27:BB:86:GLU:HB3	1.97	0.46
27:BB:123:LYS:N	27:BB:141:ARG:HE	2.13	0.46
28:BC:74:LYS:O	28:BC:76:PRO:HD3	2.15	0.46
29:BD:8:LYS:HA	29:BD:12:VAL:HG11	1.96	0.46
29:BD:119:LYS:HD2	29:BD:121:PHE:O	2.15	0.46
32:BG:33:ASN:HD22	32:BG:34:ILE:N	2.07	0.46
35:BJ:55:MET:N	35:BJ:56:PRO:CA	2.78	0.46
35:BJ:82:LEU:HD22	35:BJ:82:LEU:N	2.31	0.46
37:BL:97:ILE:HG12	37:BL:114:GLU:HG2	1.98	0.46
39:BN:34:GLY:O	39:BN:35:SER:HB2	2.16	0.46
41:BQ:51:LEU:HD13	41:BQ:51:LEU:C	2.39	0.46
43:BS:66:VAL:O	43:BS:69:VAL:HG22	2.16	0.46
44:BT:79:ARG:HG2	44:BT:79:ARG:HH11	1.80	0.46
1:AA:413:G:N7	5:AD:32:LYS:HD3	2.31	0.46
1:AA:560:A:H4'	1:AA:561:U:O5'	2.15	0.46
1:AA:717:U:C4	1:AA:734:G:N7	2.83	0.46
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.30	0.46
1:AA:1302:C:H5'	14:AM:16:ILE:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:24:ASN:HD22	4:AC:27:GLU:C	2.24	0.46
4:AC:78:LYS:HB3	4:AC:78:LYS:HZ3	1.79	0.46
9:AH:46:GLU:O	9:AH:47:ASP:HB2	2.15	0.46
11:AJ:24:GLU:O	11:AJ:28:THR:HG22	2.15	0.46
14:AM:15:VAL:CG2	14:AM:40:GLU:HB2	2.46	0.46
22:B0:49:A:P	22:B0:51:G:H5'	2.55	0.46
22:B0:98:G:H2'	22:B0:99:U:H5	1.80	0.46
22:B0:203:A:N1	22:B0:204:A:N6	2.64	0.46
22:B0:310:A:OP1	43:BS:67:SER:HB3	2.15	0.46
22:B0:807:U:H5'	22:B0:2445:G:O2'	2.15	0.46
22:B0:992:C:H2'	22:B0:993:G:C8	2.51	0.46
22:B0:1085:A:O2'	22:B0:1086:A:H5'	2.16	0.46
22:B0:1201:U:O5'	22:B0:1201:U:H6	1.98	0.46
22:B0:1418:G:C6	26:BA:99:GLU:HB3	2.51	0.46
22:B0:1418:G:N2	26:BA:66:PHE:CD2	2.83	0.46
22:B0:1816:C:H5''	22:B0:1817:G:OP2	2.16	0.46
22:B0:1924:C:H2'	22:B0:1925:C:C6	2.51	0.46
22:B0:2010:G:O2'	22:B0:2011:U:H5'	2.16	0.46
22:B0:2089:C:H42	22:B0:2090:A:N6	2.14	0.46
22:B0:2157:G:HO2'	22:B0:2158:A:P	2.35	0.46
22:B0:2527:C:H2'	22:B0:2528:U:O4'	2.16	0.46
22:B0:2570:G:O6	27:BB:152:PRO:HB3	2.16	0.46
22:B0:2677:G:H2'	27:BB:125:TRP:CD2	2.51	0.46
22:B0:2732:G:H2'	22:B0:2734:A:O4'	2.15	0.46
22:B0:2852:G:H2'	22:B0:2853:C:C6	2.50	0.46
22:B0:2895:C:H41	33:BH:13:ARG:HH11	1.63	0.46
23:B9:65:U:H2'	23:B9:66:A:H5'	1.98	0.46
24:B2:131:GLY:N	24:B2:132:PRO:HD2	2.31	0.46
25:B3:43:GLY:C	25:B3:45:VAL:H	2.24	0.46
27:BB:122:VAL:C	27:BB:124:ARG:N	2.72	0.46
28:BC:94:GLN:HG2	35:BJ:21:ARG:HG3	1.96	0.46
29:BD:42:ALA:O	29:BD:43:ILE:C	2.59	0.46
35:BJ:74:THR:HG22	35:BJ:107:PHE:CB	2.46	0.46
36:BK:35:ALA:HB2	36:BK:128:THR:HG22	1.96	0.46
37:BL:112:TYR:O	37:BL:113:ILE:C	2.59	0.46
38:BM:115:LEU:HD22	38:BM:115:LEU:N	2.30	0.46
40:BO:60:TRP:O	40:BO:95:ALA:HB1	2.15	0.46
41:BQ:51:LEU:O	41:BQ:55:ILE:HG23	2.16	0.46
42:BR:36:LYS:C	42:BR:38:ALA:H	2.23	0.46
43:BS:72:PHE:HB2	43:BS:84:PHE:HZ	1.80	0.46
45:BU:47:GLY:O	45:BU:54:ARG:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BX:8:GLN:NE2	47:BX:15:ARG:NH2	2.64	0.46
49:B1:12:SER:OG	49:B1:50:GLU:HG3	2.15	0.46
1:AA:718:A:H2	1:AA:719:C:O4'	1.99	0.46
1:AA:812:G:O2'	1:AA:813:U:O5'	2.34	0.46
1:AA:890:G:C2'	1:AA:891:U:OP2	2.63	0.46
1:AA:977:A:N3	1:AA:977:A:C2'	2.77	0.46
1:AA:1030:U:H4'	1:AA:1031:C:H5	1.80	0.46
2:AW:17:U:H2'	2:AW:19:G:OP2	2.15	0.46
2:AW:22:G:O2'	2:AW:23:A:H5'	2.16	0.46
7:AF:8:PHE:HE1	7:AF:10:VAL:HB	1.80	0.46
9:AH:37:ASN:O	9:AH:41:GLU:HG2	2.15	0.46
18:AQ:20:ILE:O	18:AQ:45:VAL:HG22	2.15	0.46
22:B0:121:G:C4'	22:B0:149:A:H5'	2.35	0.46
22:B0:564:C:H2'	22:B0:565:C:C6	2.51	0.46
22:B0:774:G:O2'	22:B0:777:G:N3	2.47	0.46
22:B0:783:A:C4	22:B0:785:G:H1'	2.51	0.46
22:B0:819:A:O2'	22:B0:820:A:H5'	2.15	0.46
22:B0:1045:C:OP1	25:B5:29:LYS:HG3	2.15	0.46
22:B0:1167:C:H2'	22:B0:1168:G:C8	2.51	0.46
22:B0:1421:G:N3	26:BA:149:LYS:CB	2.79	0.46
22:B0:1439:A:H2'	22:B0:1440:U:O4'	2.15	0.46
22:B0:1668:A:N6	22:B0:1674:G:N3	2.64	0.46
22:B0:1787:A:H5'	22:B0:2590:A:H5'	1.97	0.46
22:B0:1844:C:H2'	22:B0:1845:G:H8	1.80	0.46
22:B0:2128:G:O5'	22:B0:2165:C:C3'	2.61	0.46
22:B0:2345:G:H1	22:B0:2380:C:N4	2.13	0.46
22:B0:2825:G:H3'	22:B0:2825:G:N3	2.30	0.46
23:B9:36:C:H2'	23:B9:37:C:C6	2.51	0.46
25:B3:76:THR:C	25:B3:78:LEU:H	2.24	0.46
25:B3:98:VAL:HB	25:B3:102:ASP:HB3	1.96	0.46
25:B5:68:VAL:O	25:B5:72:VAL:HG23	2.16	0.46
26:BA:71:ASP:CG	26:BA:72:GLY:N	2.73	0.46
26:BA:124:LYS:O	26:BA:126:GLY:N	2.49	0.46
27:BB:40:LEU:HD13	27:BB:49:GLN:HA	1.97	0.46
27:BB:123:LYS:CB	27:BB:141:ARG:HE	2.25	0.46
28:BC:87:ALA:O	28:BC:88:ARG:CG	2.63	0.46
28:BC:108:ILE:HG13	28:BC:181:ILE:HG12	1.98	0.46
29:BD:33:ILE:HB	29:BD:95:MET:HE2	1.97	0.46
29:BD:39:VAL:HG23	29:BD:39:VAL:O	2.16	0.46
29:BD:56:LEU:HD22	29:BD:56:LEU:N	2.30	0.46
30:BE:42:VAL:HG23	30:BE:42:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:9:LYS:HE2	32:BG:10:LEU:H	1.80	0.46
34:BI:87:LEU:HD12	34:BI:87:LEU:O	2.16	0.46
35:BJ:134:ALA:CB	35:BJ:135:ILE:HD13	2.46	0.46
36:BK:11:LYS:HB2	36:BK:11:LYS:NZ	2.31	0.46
36:BK:40:ARG:HD3	36:BK:40:ARG:N	2.31	0.46
37:BL:12:ARG:HA	37:BL:12:ARG:NE	2.31	0.46
39:BN:31:VAL:HG22	39:BN:32:VAL:N	2.30	0.46
41:BQ:25:ARG:H	41:BQ:25:ARG:CD	2.29	0.46
45:BU:35:ILE:CG2	45:BU:70:VAL:HG21	2.44	0.46
1:AA:99:C:N4	1:AA:101:A:H62	2.14	0.46
1:AA:356:A:H2'	1:AA:357:G:O4'	2.16	0.46
1:AA:407:U:H2'	1:AA:408:A:C8	2.51	0.46
1:AA:420:U:OP1	1:AA:512:U:C1'	2.61	0.46
1:AA:448:A:H62	1:AA:486:U:H3	1.64	0.46
1:AA:888:G:H2'	1:AA:889:A:C8	2.51	0.46
1:AA:925:G:H1	1:AA:1391:U:H3	1.63	0.46
1:AA:1238:A:H2	1:AA:1242:G:H1'	1.80	0.46
1:AA:1297:G:N3	8:AG:115:MET:HG3	2.31	0.46
2:AU:16:U:P	2:AU:16:U:H6	2.39	0.46
2:AU:74:C:H2'	22:B0:2557:G:C5'	2.46	0.46
2:AU:75:C:H5''	22:B0:2557:G:H8	1.78	0.46
2:AW:63:C:H2'	2:AW:64:A:C8	2.50	0.46
3:AB:14:HIS:HE1	3:AB:211:LEU:HD23	1.77	0.46
3:AB:159:ALA:C	3:AB:160:LEU:HD12	2.41	0.46
5:AD:162:GLU:C	5:AD:164:ARG:H	2.23	0.46
10:AI:87:MET:HE2	10:AI:94:ARG:NE	2.31	0.46
15:AN:73:LEU:CD1	15:AN:75:LYS:HB2	2.45	0.46
18:AQ:11:VAL:HG13	18:AQ:20:ILE:CG2	2.46	0.46
20:AS:22:VAL:HG12	20:AS:22:VAL:O	2.16	0.46
22:B0:24:G:H2'	22:B0:25:U:C6	2.51	0.46
22:B0:354:A:H2'	22:B0:355:U:O4'	2.16	0.46
22:B0:481:G:N2	22:B0:509:C:H1'	2.31	0.46
22:B0:589:U:OP1	28:BC:43:THR:CA	2.63	0.46
22:B0:749:A:C3'	22:B0:750:A:H5'	2.46	0.46
22:B0:821:A:H2'	22:B0:946:C:OP2	2.16	0.46
22:B0:994:C:H2'	22:B0:996:A:C8	2.51	0.46
22:B0:1037:G:H2'	22:B0:1038:G:C8	2.51	0.46
22:B0:1153:C:H5''	40:BO:61:ILE:CD1	2.45	0.46
22:B0:1495:A:H61	26:BA:150:GLY:C	2.23	0.46
22:B0:1497:U:H5''	22:B0:1498:C:OP1	2.15	0.46
22:B0:1666:G:C2'	22:B0:1667:G:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1670:C:H2'	22:B0:1671:U:H5'	1.97	0.46
22:B0:1748:C:H2'	22:B0:1749:A:C8	2.51	0.46
22:B0:1790:C:OP2	22:B0:1828:G:N1	2.49	0.46
22:B0:1917:U:H2'	22:B0:1918:A:C8	2.51	0.46
22:B0:1922:G:O2'	22:B0:1923:U:P	2.73	0.46
22:B0:2004:G:O2'	22:B0:2005:A:H5'	2.16	0.46
22:B0:2045:C:O2'	22:B0:2046:G:H5'	2.16	0.46
22:B0:2146:C:H2'	22:B0:2147:A:H5''	1.97	0.46
22:B0:2343:U:O2'	22:B0:2344:U:H5'	2.16	0.46
22:B0:2573:C:OP1	22:B0:2574:G:H5''	2.16	0.46
22:B0:2581:G:O2'	22:B0:2582:G:P	2.74	0.46
22:B0:2898:G:N3	33:BH:132:HIS:CE1	2.84	0.46
25:B3:86:LEU:C	25:B3:91:PRO:HD2	2.40	0.46
26:BA:149:LYS:NZ	26:BA:152:GLN:HG2	2.16	0.46
26:BA:249:VAL:HB	26:BA:250:GLN:OE1	2.15	0.46
27:BB:123:LYS:O	27:BB:123:LYS:HG2	2.15	0.46
27:BB:133:THR:O	27:BB:137:SER:N	2.49	0.46
28:BC:25:GLU:HA	28:BC:28:VAL:CG2	2.46	0.46
28:BC:161:ALA:O	28:BC:167:VAL:HG11	2.15	0.46
29:BD:90:LEU:C	29:BD:90:LEU:HD22	2.41	0.46
30:BE:85:LYS:CD	30:BE:131:VAL:HG12	2.46	0.46
32:BG:9:LYS:NZ	32:BG:27:LEU:HD22	2.31	0.46
32:BG:113:ALA:C	32:BG:115:ASP:H	2.24	0.46
33:BH:26:GLY:C	33:BH:28:LEU:H	2.24	0.46
33:BH:35:ARG:O	33:BH:39:LYS:HB2	2.16	0.46
34:BI:6:THR:O	34:BI:20:MET:HA	2.15	0.46
34:BI:16:ALA:HA	34:BI:46:ALA:HB2	1.98	0.46
36:BK:121:ALA:HA	36:BK:124:LEU:HD21	1.96	0.46
37:BL:24:MET:O	37:BL:44:LEU:HD13	2.16	0.46
39:BN:17:PRO:O	39:BN:18:SER:C	2.58	0.46
40:BO:97:ILE:HD12	40:BO:97:ILE:C	2.40	0.46
41:BQ:25:ARG:CZ	41:BQ:26:GLY:N	2.75	0.46
43:BS:32:LYS:HD2	43:BS:63:ALA:HB1	1.97	0.46
46:BW:47:ARG:HG3	46:BW:48:ARG:CD	2.45	0.46
1:AA:429:U:OP1	1:AA:430:A:H5''	2.16	0.46
1:AA:519:C:H2'	1:AA:520:A:O4'	2.16	0.46
1:AA:792:A:H4'	1:AA:793:U:O5'	2.14	0.46
1:AA:1222:G:OP2	20:AS:2:ARG:NE	2.49	0.46
1:AA:1235:U:C3'	1:AA:1236:A:H5''	2.45	0.46
2:AU:74:C:O3'	22:B0:2556:C:C3'	2.64	0.46
5:AD:25:ARG:N	5:AD:25:ARG:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:26:THR:O	7:AF:30:THR:HG23	2.16	0.46
7:AF:93:LYS:HD2	7:AF:93:LYS:C	2.41	0.46
10:AI:10:ARG:O	10:AI:11:ARG:HB2	2.16	0.46
13:AL:79:ILE:HG13	13:AL:103:CYS:HB2	1.98	0.46
17:AP:71:VAL:HG22	17:AP:75:ILE:CD1	2.46	0.46
22:B0:71:A:H5''	22:B0:72:U:O5'	2.15	0.46
22:B0:447:A:N6	22:B0:473:G:N3	2.64	0.46
22:B0:518:G:H5''	41:BQ:18:ARG:NE	2.31	0.46
22:B0:791:C:H1'	22:B0:793:A:H4'	1.97	0.46
22:B0:799:G:C8	28:BC:57:LYS:N	2.78	0.46
22:B0:809:G:H4'	22:B0:1254:A:H1'	1.98	0.46
22:B0:849:A:H61	22:B0:928:A:N6	2.13	0.46
22:B0:948:C:H2'	22:B0:949:G:C8	2.51	0.46
22:B0:1494:A:O3'	26:BA:140:VAL:CG1	2.64	0.46
22:B0:1631:G:C4	22:B0:1633:G:OP2	2.69	0.46
22:B0:1892:C:H2'	22:B0:1893:C:H6	1.80	0.46
22:B0:1996:C:O2	27:BB:138:LEU:O	2.34	0.46
22:B0:2049:G:H2'	22:B0:2050:C:C5	2.50	0.46
22:B0:2176:A:C4'	24:B2:167:ASN:H	2.28	0.46
22:B0:2271:G:H2'	22:B0:2272:U:C6	2.51	0.46
22:B0:2614:A:H8	22:B0:2614:A:OP1	1.99	0.46
23:B9:30:C:H2'	23:B9:31:C:O4'	2.16	0.46
25:B3:98:VAL:HB	25:B3:102:ASP:HB2	1.98	0.46
27:BB:5:VAL:O	27:BB:83:ARG:HD3	2.16	0.46
28:BC:21:ARG:HG2	28:BC:106:LYS:HB3	1.97	0.46
28:BC:118:LEU:CB	28:BC:187:VAL:HA	2.45	0.46
30:BE:11:PRO:HB2	30:BE:14:VAL:HG23	1.97	0.46
33:BH:25:LEU:HD12	33:BH:64:VAL:HA	1.98	0.46
36:BK:41:LEU:C	36:BK:93:VAL:HG23	2.40	0.46
36:BK:42:THR:HG22	36:BK:45:GLN:HE21	1.81	0.46
38:BM:106:LEU:C	38:BM:106:LEU:HD13	2.41	0.46
39:BN:63:ILE:HD11	39:BN:74:GLN:HG2	1.98	0.46
40:BO:44:TYR:CD1	40:BO:44:TYR:C	2.94	0.46
42:BR:11:LEU:CB	42:BR:34:VAL:HG12	2.46	0.46
42:BR:93:LEU:HD21	42:BR:96:VAL:CB	2.41	0.46
46:BW:1:MET:HE1	46:BW:21:LEU:HD21	1.98	0.46
1:AA:77:A:H2'	1:AA:78:A:H8	1.81	0.45
1:AA:481:G:O2'	1:AA:482:A:C4'	2.65	0.45
1:AA:572:A:C4'	1:AA:917:G:H4'	2.46	0.45
1:AA:890:G:O2'	1:AA:891:U:C6	2.70	0.45
1:AA:1015:G:H1'	1:AA:1218:C:O2'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1182:G:O2'	1:AA:1183:U:C5'	2.64	0.45
1:AA:1384:C:H2'	1:AA:1385:G:C8	2.51	0.45
1:AA:1386:G:N9	10:AI:128:LYS:HE2	2.31	0.45
1:AA:1502:A:H2	1:AA:1505:G:N2	2.13	0.45
2:AU:53:G:H1	2:AU:61:C:N4	2.11	0.45
2:AU:59:U:H2'	2:AU:60:C:H5'	1.98	0.45
2:AV:9:A:H4'	2:AV:46:G:O4'	2.16	0.45
5:AD:54:LEU:HA	5:AD:202:LEU:CD2	2.45	0.45
5:AD:62:ARG:HG2	5:AD:62:ARG:HH11	1.81	0.45
5:AD:117:VAL:HG22	5:AD:122:ILE:HD12	1.97	0.45
9:AH:35:ILE:O	9:AH:39:LEU:HD23	2.16	0.45
15:AN:81:ILE:HD12	15:AN:82:LYS:N	2.31	0.45
19:AR:35:SER:HB2	19:AR:37:LYS:NZ	2.30	0.45
22:B0:57:C:H5''	42:BR:76:ARG:HB2	1.98	0.45
22:B0:58:G:N2	22:B0:73:A:H1'	2.31	0.45
22:B0:311:A:H61	22:B0:329:G:H5''	1.81	0.45
22:B0:393:C:H2'	22:B0:394:C:C6	2.50	0.45
22:B0:587:C:O2'	28:BC:82:GLY:O	2.35	0.45
22:B0:632:A:H2'	22:B0:633:A:C8	2.51	0.45
22:B0:825:A:OP1	22:B0:2428:G:N1	2.49	0.45
22:B0:959:A:C5	36:BK:80:VAL:O	2.69	0.45
22:B0:1324:G:H4'	22:B0:1616:A:H62	1.80	0.45
22:B0:1493:A:P	26:BA:143:VAL:CG2	3.04	0.45
22:B0:1577:C:O2'	26:BA:64:VAL:HG23	2.16	0.45
22:B0:1657:U:O2'	22:B0:1658:C:H5'	2.16	0.45
22:B0:2098:U:H2'	22:B0:2099:U:C6	2.52	0.45
22:B0:2108:A:H2'	22:B0:2109:U:C4'	2.46	0.45
22:B0:2161:C:H5	24:B2:7:MET:HG2	1.82	0.45
22:B0:2786:U:O5'	22:B0:2786:U:H6	1.99	0.45
22:B0:2897:U:N3	33:BH:14:ASP:HB2	2.31	0.45
23:B9:20:G:H2'	23:B9:21:G:C8	2.51	0.45
30:BE:45:ALA:HB3	30:BE:48:THR:O	2.16	0.45
33:BH:96:ARG:HG2	33:BH:96:ARG:HH11	1.81	0.45
34:BI:3:GLN:H	34:BI:6:THR:HG21	1.81	0.45
35:BJ:47:ARG:HB3	35:BJ:47:ARG:NH1	2.31	0.45
35:BJ:70:LYS:H	35:BJ:70:LYS:CD	2.27	0.45
36:BK:11:LYS:HB2	36:BK:11:LYS:HZ2	1.82	0.45
37:BL:29:VAL:HG13	37:BL:75:ILE:HB	1.97	0.45
39:BN:42:PHE:H	39:BN:42:PHE:HD1	1.65	0.45
40:BO:26:ALA:C	40:BO:28:SER:N	2.72	0.45
40:BO:35:PHE:H	40:BO:38:VAL:HG22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:42:GLU:O	42:BR:44:LYS:HG2	2.15	0.45
45:BU:33:GLY:CA	45:BU:67:LYS:HD2	2.46	0.45
47:BX:4:ILE:HG21	47:BX:56:VAL:HB	1.97	0.45
1:AA:8:A:H2	5:AD:205:LYS:HB3	1.82	0.45
1:AA:129:A:O2'	1:AA:130:A:P	2.74	0.45
1:AA:229:U:H2'	1:AA:230:G:H8	1.81	0.45
1:AA:252:U:H2'	1:AA:253:A:C8	2.50	0.45
1:AA:365:U:O2	1:AA:365:U:H2'	2.15	0.45
1:AA:408:A:H2'	1:AA:409:U:C6	2.51	0.45
1:AA:420:U:C1'	5:AD:39:GLN:NE2	2.79	0.45
1:AA:501:C:H2'	1:AA:502:A:H8	1.81	0.45
1:AA:982:U:H4'	1:AA:983:A:H5''	1.98	0.45
1:AA:1015:G:H2'	1:AA:1016:A:O4'	2.16	0.45
4:AC:133:MET:HG3	4:AC:134:LYS:N	2.31	0.45
5:AD:36:ALA:HB1	5:AD:37:PRO:HD2	1.98	0.45
5:AD:44:LYS:O	5:AD:44:LYS:HG3	2.16	0.45
5:AD:113:ALA:O	5:AD:117:VAL:HG23	2.15	0.45
7:AF:35:LYS:C	7:AF:64:VAL:HG23	2.41	0.45
11:AJ:36:VAL:HG12	11:AJ:38:GLY:H	1.80	0.45
12:AK:17:ASP:HA	12:AK:80:ASN:O	2.17	0.45
12:AK:81:LEU:O	12:AK:107:THR:HG22	2.16	0.45
17:AP:4:ILE:HG12	17:AP:21:VAL:HG13	1.97	0.45
18:AQ:13:SER:HB3	18:AQ:21:VAL:CG2	2.45	0.45
22:B0:115:C:H2'	22:B0:116:C:C6	2.51	0.45
22:B0:120:U:HO2'	22:B0:121:G:P	2.37	0.45
22:B0:310:A:H1'	22:B0:330:A:N7	2.31	0.45
22:B0:445:C:H2'	22:B0:446:G:O4'	2.16	0.45
22:B0:447:A:H1'	22:B0:449:A:N6	2.31	0.45
22:B0:931:U:O3'	22:B0:932:U:O4'	2.34	0.45
22:B0:1016:G:H2'	22:B0:1017:G:C8	2.52	0.45
22:B0:1061:U:H1'	22:B0:1070:A:C1'	2.41	0.45
22:B0:1234:U:H2'	22:B0:1235:G:O4'	2.17	0.45
22:B0:1462:U:H2'	22:B0:1463:G:C8	2.51	0.45
22:B0:1498:C:OP2	26:BA:61:TYR:O	2.34	0.45
22:B0:1786:A:H62	22:B0:2606:C:H1'	1.81	0.45
22:B0:1811:G:O2'	22:B0:1812:U:H5'	2.17	0.45
22:B0:1944:U:O4'	22:B0:1955:U:H1'	2.15	0.45
22:B0:2076:U:H6	22:B0:2076:U:OP1	2.00	0.45
22:B0:2144:G:C3'	22:B0:2145:C:H5''	2.46	0.45
22:B0:2258:C:N4	22:B0:2426:A:H4'	2.31	0.45
22:B0:2262:U:N1	45:BU:11:ASN:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2484:G:H5''	36:BK:44:ARG:HD3	1.99	0.45
22:B0:2849:U:C2'	22:B0:2850:A:OP2	2.64	0.45
24:B2:22:ILE:H	24:B2:22:ILE:CD1	2.29	0.45
24:B2:176:LYS:O	24:B2:184:LEU:HD21	2.14	0.45
25:B3:4:LYS:O	25:B3:8:ILE:HG12	2.16	0.45
25:B3:17:MET:O	25:B3:20:VAL:HB	2.16	0.45
28:BC:150:THR:CG2	28:BC:186:VAL:HA	2.47	0.45
29:BD:106:ALA:C	29:BD:109:ARG:HB3	2.41	0.45
33:BH:18:VAL:HG22	33:BH:32:LEU:HD21	1.97	0.45
35:BJ:54:GLN:HG2	35:BJ:55:MET:N	2.31	0.45
36:BK:4:PRO:O	36:BK:6:ARG:HG3	2.16	0.45
39:BN:55:HIS:CG	39:BN:56:SER:N	2.81	0.45
43:BS:44:HIS:NE2	43:BS:46:LYS:HD2	2.31	0.45
44:BT:77:VAL:HG13	44:BT:89:ILE:CG1	2.46	0.45
45:BU:31:LEU:HD23	45:BU:31:LEU:H	1.81	0.45
1:AA:145:G:N2	1:AA:177:G:N2	2.64	0.45
1:AA:772:U:H2'	1:AA:773:G:H8	1.81	0.45
1:AA:981:U:C5	20:AS:5:LYS:HE3	2.51	0.45
1:AA:1098:C:H2'	1:AA:1099:G:C8	2.51	0.45
1:AA:1100:C:C2'	1:AA:1101:A:OP1	2.64	0.45
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.57	0.45
1:AA:1171:A:H2'	1:AA:1172:C:H6	1.81	0.45
1:AA:1278:G:H5''	1:AA:1279:G:OP1	2.16	0.45
1:AA:1431:A:H61	1:AA:1469:C:H42	1.65	0.45
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.45
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.50	0.45
2:AV:55:U:O2	2:AV:57:G:OP2	2.33	0.45
5:AD:131:ILE:HG23	5:AD:131:ILE:O	2.17	0.45
9:AH:6:ILE:CD1	9:AH:31:LEU:HD12	2.46	0.45
11:AJ:58:ASN:CG	11:AJ:61:ALA:HB2	2.42	0.45
12:AK:43:TRP:HZ3	12:AK:45:THR:HG1	1.64	0.45
19:AR:7:ARG:HB2	19:AR:7:ARG:HH11	1.80	0.45
21:AT:8:LYS:O	21:AT:12:GLN:HG3	2.17	0.45
22:B0:311:A:HO2'	22:B0:331:C:H3'	1.81	0.45
22:B0:604:G:O2'	22:B0:605:G:H5'	2.16	0.45
22:B0:608:A:H2'	22:B0:609:A:C8	2.52	0.45
22:B0:692:C:H2'	22:B0:693:A:H8	1.81	0.45
22:B0:1094:U:H1'	22:B0:1097:U:H5	1.80	0.45
22:B0:1125:G:N7	22:B0:1126:A:N7	2.64	0.45
22:B0:1276:A:H2'	22:B0:1277:G:H8	1.82	0.45
22:B0:1417:U:H6	26:BA:100:ARG:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1658:C:O5'	22:B0:1658:C:H6	2.00	0.45
22:B0:2145:C:C3'	22:B0:2146:C:H5''	2.47	0.45
22:B0:2455:G:H2'	22:B0:2456:C:H6	1.81	0.45
23:B9:38:C:H2'	23:B9:39:A:C8	2.52	0.45
24:B2:64:LEU:HB3	24:B2:65:PRO:CD	2.42	0.45
24:B2:138:ASN:H	24:B2:143:THR:HB	1.82	0.45
25:B5:19:VAL:HG13	25:B5:20:VAL:N	2.31	0.45
25:B5:86:LEU:HD12	25:B5:91:PRO:HB2	1.98	0.45
26:BA:43:ASN:O	26:BA:44:ASN:O	2.35	0.45
27:BB:124:ARG:O	27:BB:125:TRP:C	2.59	0.45
32:BG:57:VAL:HG13	32:BG:69:VAL:HB	1.99	0.45
33:BH:24:THR:HG22	33:BH:26:GLY:N	2.27	0.45
33:BH:33:ALA:O	33:BH:36:LEU:HD23	2.16	0.45
34:BI:61:VAL:HG23	34:BI:87:LEU:HD23	1.98	0.45
37:BL:8:ARG:H	37:BL:8:ARG:HD3	1.81	0.45
39:BN:4:ILE:C	39:BN:4:ILE:HD12	2.41	0.45
39:BN:21:PRO:HG3	39:BN:61:ARG:HE	1.82	0.45
42:BR:66:LYS:HG3	42:BR:67:VAL:N	2.30	0.45
42:BR:87:LEU:HA	42:BR:88:LYS:N	2.32	0.45
45:BU:40:ARG:HA	45:BU:65:LYS:HB3	1.97	0.45
47:BX:30:ARG:HB2	47:BX:33:HIS:CE1	2.52	0.45
1:AA:6:G:N1	6:AE:102:THR:HG23	2.20	0.45
1:AA:366:A:O2'	1:AA:367:U:OP1	2.32	0.45
1:AA:518:C:H1'	1:AA:529:G:C2	2.52	0.45
1:AA:531:U:C5'	1:AA:532:A:OP1	2.58	0.45
1:AA:647:C:H2'	1:AA:648:A:C8	2.50	0.45
1:AA:729:A:H2'	1:AA:730:G:H8	1.82	0.45
1:AA:913:A:O2'	1:AA:914:A:OP2	2.32	0.45
1:AA:932:C:H42	1:AA:1385:G:H22	1.64	0.45
1:AA:933:G:C6	1:AA:1385:G:N2	2.84	0.45
1:AA:969:A:H4'	1:AA:969:A:OP1	2.16	0.45
1:AA:1297:G:HO2'	1:AA:1298:U:H5	1.64	0.45
2:AW:1:G:C5'	49:B1:2:LYS:HD2	2.46	0.45
2:AW:76:A:OP2	22:B0:2424:C:O2'	2.34	0.45
3:AB:67:LEU:C	3:AB:67:LEU:HD23	2.42	0.45
5:AD:115:GLN:NE2	5:AD:153:ARG:HH12	2.14	0.45
8:AG:114:SER:HB3	8:AG:117:LEU:HB3	1.98	0.45
8:AG:149:ALA:C	8:AG:151:ALA:N	2.74	0.45
13:AL:26:CYS:CB	13:AL:29:LYS:HE2	2.47	0.45
17:AP:18:GLN:HG2	17:AP:20:VAL:HG23	1.98	0.45
17:AP:20:VAL:HG11	17:AP:32:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AP:56:ARG:HH12	17:AP:60:TRP:NE1	2.14	0.45
19:AR:33:THR:CG2	19:AR:34:GLU:H	2.23	0.45
22:B0:439:A:H2'	22:B0:440:C:C6	2.52	0.45
22:B0:460:A:H5'	42:BR:72:GLN:HG2	1.98	0.45
22:B0:481:G:C6	22:B0:507:A:H1'	2.51	0.45
22:B0:501:A:N6	22:B0:503:A:C4	2.85	0.45
22:B0:532:A:C5'	22:B0:533:G:OP2	2.61	0.45
22:B0:587:C:H1'	28:BC:76:PRO:HA	1.99	0.45
22:B0:776:G:N3	22:B0:776:G:H2'	2.32	0.45
22:B0:972:A:H2'	22:B0:973:A:C8	2.52	0.45
22:B0:1213:A:H62	22:B0:1236:G:C1'	2.29	0.45
22:B0:1261:C:H2'	22:B0:1262:A:H8	1.82	0.45
22:B0:1482:G:H2'	22:B0:1483:A:C8	2.52	0.45
22:B0:1922:G:H2'	22:B0:1923:U:C6	2.52	0.45
22:B0:1972:G:C2'	22:B0:1973:G:H8	2.24	0.45
22:B0:2136:G:N3	22:B0:2137:U:O5'	2.49	0.45
22:B0:2842:G:H2'	22:B0:2843:G:H8	1.82	0.45
23:B9:85:G:O6	23:B9:91:C:N3	2.49	0.45
25:B3:32:VAL:O	25:B3:36:ALA:HB2	2.17	0.45
25:B3:107:LYS:HE3	25:B3:117:VAL:O	2.17	0.45
25:B5:64:ASN:O	25:B5:68:VAL:HG23	2.16	0.45
26:BA:106:PRO:HD2	26:BA:109:LEU:HD23	1.98	0.45
26:BA:187:CYS:HA	26:BA:188:ARG:NE	2.31	0.45
26:BA:214:GLY:C	26:BA:217:PRO:HD3	2.41	0.45
30:BE:167:VAL:HG12	30:BE:168:VAL:N	2.31	0.45
31:BF:80:ILE:HD11	31:BF:102:ALA:HB1	1.98	0.45
35:BJ:95:LEU:C	35:BJ:96:LYS:HD3	2.41	0.45
37:BL:72:ASP:O	37:BL:76:VAL:HB	2.16	0.45
40:BO:64:ILE:HB	40:BO:78:PHE:CZ	2.51	0.45
40:BO:77:LYS:HG2	40:BO:77:LYS:O	2.16	0.45
45:BU:66:VAL:HG11	45:BU:73:PRO:HA	1.98	0.45
47:BX:12:ALA:HA	47:BX:15:ARG:HE	1.80	0.45
1:AA:119:A:O2'	1:AA:120:A:P	2.74	0.45
1:AA:823:C:H2'	1:AA:824:G:C8	2.52	0.45
1:AA:1108:G:H2'	1:AA:1109:C:H6	1.82	0.45
1:AA:1318:A:OP1	20:AS:41:PRO:HG2	2.16	0.45
2:AW:53:G:H1	2:AW:61:C:N4	2.13	0.45
3:AB:66:ILE:CD1	3:AB:159:ALA:HB3	2.46	0.45
4:AC:108:PRO:HB3	4:AC:114:LEU:HD13	1.97	0.45
8:AG:138:GLU:O	8:AG:142:ARG:HG3	2.17	0.45
9:AH:6:ILE:HD11	9:AH:31:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AJ:89:ARG:HH11	11:AJ:89:ARG:CB	2.28	0.45
12:AK:61:ALA:HA	12:AK:64:VAL:HG22	1.99	0.45
13:AL:30:ARG:HH11	13:AL:30:ARG:CB	2.30	0.45
14:AM:2:ARG:HG3	29:BD:147:ARG:NH2	2.30	0.45
16:AO:46:LYS:H	16:AO:46:LYS:CD	2.26	0.45
18:AQ:9:GLY:O	18:AQ:57:VAL:HG13	2.15	0.45
20:AS:13:HIS:CG	20:AS:14:LEU:N	2.85	0.45
22:B0:347:A:N1	22:B0:348:A:N6	2.64	0.45
22:B0:518:G:O3'	41:BQ:18:ARG:HG3	2.17	0.45
22:B0:658:U:N1	28:BC:98:LYS:HD3	2.32	0.45
22:B0:729:G:H3'	22:B0:729:G:N3	2.32	0.45
22:B0:909:A:OP1	36:BK:5:LYS:HB3	2.17	0.45
22:B0:1009:A:N3	22:B0:1153:C:O2'	2.44	0.45
22:B0:1164:C:C2	22:B0:1185:G:N2	2.85	0.45
22:B0:1201:U:O3'	35:BJ:13:LYS:HE2	2.16	0.45
22:B0:1369:G:H2'	22:B0:1370:C:C5	2.52	0.45
22:B0:1416:G:N1	26:BA:94:LEU:CA	2.75	0.45
22:B0:1580:A:H1'	26:BA:69:ASN:H	1.80	0.45
22:B0:1939:U:OP1	22:B0:1940:U:OP2	2.34	0.45
22:B0:1965:C:C5	22:B0:1967:C:OP2	2.70	0.45
22:B0:2048:G:O2'	22:B0:2049:G:H5'	2.17	0.45
22:B0:2365:G:H5'	45:BU:37:VAL:CG2	2.46	0.45
22:B0:2366:A:H5'	45:BU:65:LYS:HE3	1.98	0.45
22:B0:2543:G:C2	22:B0:2646:C:H4'	2.50	0.45
22:B0:2678:C:H5''	27:BB:124:ARG:CA	2.46	0.45
25:B5:16:VAL:O	25:B5:20:VAL:HG23	2.16	0.45
26:BA:78:GLU:HB3	26:BA:92:LEU:HD22	1.99	0.45
26:BA:140:VAL:CA	26:BA:190:THR:O	2.64	0.45
27:BB:28:GLU:HG2	27:BB:186:LEU:CD2	2.46	0.45
27:BB:121:THR:O	27:BB:124:ARG:HB2	2.16	0.45
27:BB:122:VAL:HG11	27:BB:129:THR:HB	1.98	0.45
28:BC:3:LEU:HB2	28:BC:17:THR:O	2.16	0.45
29:BD:47:LYS:O	29:BD:48:LEU:HB2	2.16	0.45
29:BD:84:ILE:HD12	29:BD:84:ILE:C	2.42	0.45
29:BD:101:ARG:HG2	29:BD:101:ARG:O	2.16	0.45
30:BE:97:VAL:O	30:BE:97:VAL:HG13	2.16	0.45
30:BE:101:VAL:HG12	30:BE:111:PRO:HB2	1.99	0.45
31:BF:3:VAL:HG22	31:BF:36:ALA:HB1	1.98	0.45
33:BH:12:LYS:HE3	33:BH:12:LYS:CA	2.45	0.45
33:BH:77:HIS:ND1	33:BH:77:HIS:C	2.74	0.45
34:BI:88:ASN:OD1	34:BI:90:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BJ:21:ARG:HD2	35:BJ:22:GLY:N	2.29	0.45
35:BJ:92:LEU:HD22	35:BJ:92:LEU:C	2.42	0.45
35:BJ:108:ALA:HB3	35:BJ:126:ARG:NH1	2.31	0.45
37:BL:112:TYR:O	37:BL:114:GLU:N	2.49	0.45
39:BN:12:MET:HE2	39:BN:79:VAL:HA	1.99	0.45
39:BN:20:ARG:HG3	39:BN:22:GLY:HA3	1.99	0.45
40:BO:4:LYS:O	40:BO:5:ARG:C	2.59	0.45
40:BO:15:LYS:H	40:BO:15:LYS:NZ	2.15	0.45
40:BO:74:SER:O	40:BO:75:TYR:C	2.60	0.45
43:BS:10:VAL:HG13	43:BS:69:VAL:HB	1.99	0.45
1:AA:50:A:H2'	1:AA:360:G:H22	1.82	0.45
1:AA:131:A:H2'	1:AA:132:C:C6	2.50	0.45
1:AA:147:G:H2'	1:AA:148:G:C8	2.51	0.45
1:AA:268:U:H2'	1:AA:269:C:H6	1.82	0.45
1:AA:689:C:H5'	1:AA:705:G:H21	1.82	0.45
1:AA:725:G:H2'	1:AA:726:C:H6	1.82	0.45
1:AA:1085:U:O2'	1:AA:1086:U:P	2.75	0.45
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.51	0.45
1:AA:1213:A:N6	1:AA:1215:G:H1'	2.32	0.45
1:AA:1313:U:O2'	1:AA:1314:C:H5'	2.16	0.45
1:AA:1510:C:H2'	1:AA:1511:G:C8	2.52	0.45
2:AW:65:G:H2'	2:AW:66:A:H8	1.82	0.45
3:AB:6:ARG:HG2	3:AB:6:ARG:HH11	1.81	0.45
3:AB:112:ARG:O	3:AB:116:LEU:HG	2.15	0.45
4:AC:28:PHE:CE2	4:AC:32:LEU:HD11	2.51	0.45
7:AF:11:HIS:CE1	7:AF:13:ASP:HB2	2.51	0.45
10:AI:27:ILE:HD12	10:AI:34:LEU:HD21	1.98	0.45
11:AJ:12:ALA:HB3	11:AJ:18:ILE:HD11	1.99	0.45
13:AL:24:GLU:HG2	13:AL:24:GLU:O	2.16	0.45
17:AP:9:HIS:O	17:AP:10:GLY:C	2.59	0.45
22:B0:340:A:C2'	22:B0:341:C:H5'	2.47	0.45
22:B0:971:G:H2'	22:B0:972:A:H5'	1.98	0.45
22:B0:1086:A:H4'	22:B0:1103:A:C2	2.52	0.45
22:B0:1097:U:H2'	22:B0:1098:A:H5'	1.99	0.45
22:B0:1243:C:C4	22:B0:1244:A:N7	2.85	0.45
22:B0:1618:A:H5'	22:B0:1619:G:OP2	2.17	0.45
22:B0:1775:U:H2'	22:B0:1776:G:O4'	2.16	0.45
22:B0:1993:U:O2'	22:B0:1994:C:H5'	2.16	0.45
22:B0:2176:A:C3'	24:B2:167:ASN:H	2.29	0.45
22:B0:2579:C:O2'	22:B0:2580:U:H5'	2.17	0.45
24:B2:161:ARG:HD3	24:B2:161:ARG:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:176:LYS:HD2	24:B2:176:LYS:N	2.32	0.45
26:BA:140:VAL:O	26:BA:160:TYR:HA	2.16	0.45
29:BD:59:ILE:HG22	29:BD:139:GLU:OE1	2.17	0.45
29:BD:116:LEU:H	29:BD:116:LEU:CD2	2.22	0.45
31:BF:99:ILE:HD12	31:BF:99:ILE:N	2.32	0.45
31:BF:99:ILE:O	31:BF:103:VAL:HG23	2.17	0.45
32:BG:27:LEU:O	32:BG:32:VAL:HG13	2.16	0.45
32:BG:135:MET:O	32:BG:135:MET:SD	2.75	0.45
33:BH:31:GLU:O	33:BH:32:LEU:HB2	2.17	0.45
35:BJ:118:THR:HG23	35:BJ:119:PRO:C	2.41	0.45
36:BK:75:GLU:HG3	36:BK:76:LYS:N	2.31	0.45
37:BL:49:GLU:HG3	37:BL:49:GLU:O	2.17	0.45
39:BN:33:GLU:OE2	39:BN:81:ASP:HB3	2.16	0.45
41:BQ:22:ASP:OD1	41:BQ:23:LEU:N	2.50	0.45
41:BQ:49:LYS:HZ3	41:BQ:49:LYS:CA	2.30	0.45
48:BZ:36:LYS:HE2	48:BZ:38:LEU:CD1	2.45	0.45
49:B1:26:LYS:CD	49:B1:26:LYS:N	2.79	0.45
1:AA:31:G:C4	1:AA:48:C:H5'	2.51	0.45
1:AA:187:G:H2'	1:AA:188:C:C6	2.52	0.45
1:AA:520:A:N1	1:AA:536:C:H1'	2.32	0.45
1:AA:590:U:H2'	1:AA:591:U:C6	2.52	0.45
1:AA:649:A:H2'	1:AA:650:G:C8	2.52	0.45
1:AA:719:C:OP2	1:AA:720:C:H5	2.00	0.45
1:AA:890:G:H2'	1:AA:891:U:OP2	2.16	0.45
1:AA:967:C:P	1:AA:969:A:H5'	2.56	0.45
1:AA:978:A:C3'	20:AS:5:LYS:N	2.79	0.45
1:AA:1032:G:H2'	1:AA:1033:G:C4'	2.47	0.45
1:AA:1068:G:O2'	1:AA:1069:C:H5'	2.16	0.45
3:AB:137:THR:O	3:AB:141:GLU:HG3	2.17	0.45
7:AF:51:ILE:HD12	7:AF:51:ILE:C	2.41	0.45
8:AG:36:SER:HA	10:AI:40:ARG:CD	2.46	0.45
9:AH:86:LYS:HE2	9:AH:124:ILE:HG12	1.98	0.45
11:AJ:80:THR:H	11:AJ:83:THR:CB	2.29	0.45
14:AM:95:PRO:HB3	14:AM:101:THR:HG21	1.99	0.45
16:AO:83:ARG:HH11	16:AO:83:ARG:HG2	1.81	0.45
19:AR:59:LYS:CD	19:AR:62:ARG:HH22	2.29	0.45
22:B0:242:G:C2'	22:B0:243:U:OP2	2.65	0.45
22:B0:493:G:H2'	41:BQ:7:HIS:ND1	2.32	0.45
22:B0:587:C:O2'	28:BC:82:GLY:C	2.60	0.45
22:B0:659:G:H1'	28:BC:98:LYS:N	2.32	0.45
22:B0:672:C:H6	22:B0:672:C:O5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1210:G:H1'	22:B0:1212:G:C2	2.52	0.45
22:B0:1421:G:C1'	26:BA:146:LYS:HB3	2.45	0.45
22:B0:1463:G:H2'	22:B0:1464:G:H8	1.82	0.45
22:B0:1802:A:H62	22:B0:1815:A:H62	1.65	0.45
22:B0:2115:G:N3	22:B0:2168:G:O4'	2.50	0.45
22:B0:2249:U:O2'	22:B0:2250:G:P	2.75	0.45
22:B0:2484:G:H2'	22:B0:2485:G:C8	2.51	0.45
22:B0:2553:G:C3'	22:B0:2554:U:H5''	2.42	0.45
22:B0:2678:C:O2'	27:BB:165:MET:SD	2.75	0.45
22:B0:2690:U:H2'	22:B0:2691:C:H5'	1.98	0.45
22:B0:2855:C:O5'	22:B0:2855:C:H6	1.99	0.45
24:B2:225:GLN:CD	24:B2:225:GLN:H	2.24	0.45
25:B5:84:LYS:HB3	25:B5:84:LYS:HZ3	1.81	0.45
26:BA:90:ILE:O	26:BA:90:ILE:HG13	2.16	0.45
26:BA:98:GLY:O	26:BA:99:GLU:HB2	2.17	0.45
26:BA:143:VAL:HA	26:BA:189:ALA:HB2	1.98	0.45
27:BB:88:GLU:CD	27:BB:95:SER:HB3	2.42	0.45
32:BG:3:LYS:HE2	32:BG:3:LYS:CA	2.43	0.45
32:BG:9:LYS:HG2	32:BG:56:VAL:O	2.17	0.45
33:BH:109:LEU:H	33:BH:110:PRO:HA	1.79	0.45
36:BK:38:ARG:HG3	36:BK:96:ILE:O	2.17	0.45
38:BM:39:VAL:O	38:BM:48:LEU:HD13	2.16	0.45
39:BN:16:VAL:HG23	39:BN:16:VAL:O	2.17	0.45
40:BO:43:GLN:HA	40:BO:46:TYR:CB	2.45	0.45
41:BQ:30:SER:O	41:BQ:33:LEU:HG	2.17	0.45
41:BQ:72:THR:HG23	41:BQ:73:LYS:H	1.82	0.45
1:AA:26:A:N6	1:AA:558:G:H21	2.15	0.45
1:AA:119:A:C2'	1:AA:120:A:OP2	2.65	0.45
1:AA:224:U:H2'	1:AA:225:C:C6	2.52	0.45
1:AA:947:G:H2'	1:AA:948:C:O4'	2.16	0.45
1:AA:990:C:O2'	1:AA:991:U:P	2.73	0.45
1:AA:1399:C:H1'	1:AA:1401:G:N9	2.32	0.45
2:AU:71:G:O2'	2:AU:72:C:H5'	2.17	0.45
2:AW:56:C:H2'	2:AW:57:G:C8	2.52	0.45
8:AG:24:LYS:HB3	8:AG:100:MET:HE1	1.98	0.45
8:AG:46:LEU:HB3	8:AG:57:GLU:CB	2.47	0.45
8:AG:65:LEU:HD22	8:AG:65:LEU:N	2.32	0.45
19:AR:15:GLU:HG2	19:AR:16:GLY:N	2.31	0.45
22:B0:57:C:H3'	42:BR:76:ARG:HD2	1.98	0.45
22:B0:645:C:H2'	22:B0:647:G:O4'	2.16	0.45
22:B0:858:G:O2'	22:B0:859:G:OP1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:960:A:OP2	22:B0:2496:C:C1'	2.65	0.45
22:B0:960:A:P	22:B0:2496:C:C6	3.10	0.45
22:B0:1110:G:C4'	22:B0:1111:A:OP1	2.65	0.45
22:B0:1445:U:OP1	22:B0:1445:U:H3'	2.17	0.45
22:B0:1655:A:H3'	22:B0:1656:C:C6	2.51	0.45
22:B0:1784:A:H4'	22:B0:1785:A:H5''	1.99	0.45
22:B0:1922:G:HO2'	22:B0:1923:U:P	2.40	0.45
22:B0:2263:C:N4	22:B0:2277:G:H1	2.15	0.45
22:B0:2378:A:C2'	22:B0:2379:G:H5'	2.46	0.45
22:B0:2441:U:O2'	22:B0:2442:C:H5'	2.17	0.45
22:B0:2506:U:O2'	22:B0:2507:C:H5'	2.17	0.45
24:B2:117:PRO:HA	24:B2:120:MET:CG	2.47	0.45
25:B3:91:PRO:O	25:B3:92:ALA:HB3	2.16	0.45
25:B5:14:MET:HB3	25:B5:18:ASP:HB3	1.98	0.45
26:BA:67:LYS:CD	26:BA:186:ASP:HB3	2.22	0.45
26:BA:76:VAL:O	26:BA:94:LEU:N	2.50	0.45
26:BA:225:ASN:HB3	26:BA:226:PRO:HD2	1.99	0.45
28:BC:181:ILE:HG13	35:BJ:17:LYS:HG2	1.99	0.45
33:BH:72:LYS:HZ2	33:BH:72:LYS:CA	2.27	0.45
35:BJ:17:LYS:C	35:BJ:18:ARG:HE	2.24	0.45
37:BL:12:ARG:HB3	37:BL:13:ASN:H	1.57	0.45
43:BS:48:VAL:HG13	43:BS:60:LYS:HE3	1.99	0.45
44:BT:51:GLN:HA	44:BT:56:PHE:CD2	2.52	0.45
47:BX:8:GLN:HE21	47:BX:15:ARG:HH22	1.64	0.45
47:BX:46:MET:O	47:BX:50:VAL:HG22	2.17	0.45
49:B1:14:ALA:HB2	49:B1:40:PRO:HG2	1.98	0.45
1:AA:251:G:N2	1:AA:254:G:O6	2.48	0.45
1:AA:424:G:C5	1:AA:425:G:N7	2.85	0.45
1:AA:1098:C:N4	1:AA:1099:G:O6	2.50	0.45
1:AA:1152:A:H2'	1:AA:1153:G:H8	1.81	0.45
2:AU:41:U:H2'	2:AU:42:G:H8	1.81	0.45
2:AV:56:C:H2'	2:AV:57:G:H8	1.82	0.45
3:AB:41:ASN:HB3	3:AB:44:LYS:HD3	1.99	0.45
3:AB:139:GLU:O	3:AB:143:LEU:HG	2.16	0.45
5:AD:56:GLU:OE2	5:AD:198:LEU:HD12	2.16	0.45
5:AD:101:VAL:CG1	5:AD:106:PHE:HB2	2.46	0.45
5:AD:183:ARG:HH11	5:AD:183:ARG:HG3	1.82	0.45
7:AF:43:GLY:HA2	7:AF:58:HIS:CE1	2.52	0.45
8:AG:144:ALA:O	8:AG:145:GLU:HB2	2.16	0.45
10:AI:20:ILE:CG2	10:AI:60:LEU:HD23	2.47	0.45
12:AK:28:ASN:OD1	12:AK:46:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:33:ILE:CB	12:AK:73:VAL:HG21	2.47	0.45
13:AL:30:ARG:HH22	13:AL:78:VAL:HG13	1.82	0.45
22:B0:280:U:H2'	22:B0:281:C:C6	2.52	0.45
22:B0:342:A:H2'	22:B0:343:C:C6	2.52	0.45
22:B0:458:G:C2'	22:B0:459:U:OP2	2.63	0.45
22:B0:515:A:H2'	22:B0:516:C:H5'	1.98	0.45
22:B0:704:G:N2	22:B0:726:G:H2'	2.31	0.45
22:B0:993:G:H1	22:B0:1161:C:H42	1.65	0.45
22:B0:1022:G:O5'	22:B0:1023:U:P	2.75	0.45
22:B0:1083:U:O2'	25:B3:81:LYS:CG	2.64	0.45
22:B0:1159:U:H2'	22:B0:1160:G:C8	2.51	0.45
22:B0:1579:A:N7	26:BA:188:ARG:NH1	2.64	0.45
22:B0:1630:A:N6	22:B0:1637:A:N6	2.64	0.45
22:B0:1761:C:C4	22:B0:1762:A:N3	2.85	0.45
22:B0:1837:C:H1'	22:B0:1904:G:H22	1.82	0.45
22:B0:2093:G:C8	22:B0:2198:A:N6	2.85	0.45
22:B0:2194:U:H2'	22:B0:2195:U:H6	1.81	0.45
22:B0:2500:U:C2'	22:B0:2501:C:H5'	2.47	0.45
24:B2:76:VAL:HG21	24:B2:148:VAL:HG21	1.98	0.45
25:B3:81:LYS:O	25:B3:84:LYS:HB3	2.17	0.45
26:BA:64:VAL:HG21	26:BA:150:GLY:CA	2.47	0.45
26:BA:103:ILE:O	26:BA:104:LEU:C	2.59	0.45
27:BB:201:LEU:HD12	27:BB:201:LEU:C	2.41	0.45
29:BD:107:VAL:CG1	29:BD:110:ILE:HD11	2.42	0.45
30:BE:103:ASN:ND2	30:BE:111:PRO:HB3	2.32	0.45
31:BF:15:LEU:HB3	31:BF:51:ARG:NH2	2.30	0.45
32:BG:52:LEU:CD2	32:BG:73:PRO:HB3	2.42	0.45
35:BJ:6:LEU:H	35:BJ:6:LEU:CD2	2.30	0.45
35:BJ:106:GLU:O	35:BJ:107:PHE:HB2	2.16	0.45
36:BK:75:GLU:C	36:BK:76:LYS:HD3	2.42	0.45
39:BN:46:VAL:C	39:BN:47:ILE:HD13	2.41	0.45
39:BN:59:THR:HG22	39:BN:60:VAL:N	2.31	0.45
40:BO:30:VAL:HG12	40:BO:31:TYR:H	1.82	0.45
41:BQ:20:VAL:C	41:BQ:22:ASP:N	2.74	0.45
41:BQ:20:VAL:CG2	41:BQ:36:LEU:HD13	2.47	0.45
43:BS:10:VAL:HG12	43:BS:11:ILE:N	2.30	0.45
47:BX:20:LYS:HE3	47:BX:24:LEU:HD21	1.99	0.45
49:B1:19:PHE:O	49:B1:20:TYR:HB3	2.16	0.45
1:AA:243:A:C2'	1:AA:244:U:OP2	2.64	0.45
1:AA:406:G:O2'	1:AA:407:U:H5'	2.16	0.45
1:AA:722:G:C2'	1:AA:723:U:H5''	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:43:G:H2'	2:AV:44:A:C8	2.52	0.45
5:AD:47:LEU:HD12	5:AD:47:LEU:C	2.42	0.45
5:AD:90:LEU:H	5:AD:90:LEU:CD1	2.30	0.45
5:AD:149:LYS:HD2	5:AD:177:MET:SD	2.57	0.45
6:AE:12:GLU:HG2	6:AE:63:MET:SD	2.56	0.45
6:AE:83:PRO:HG3	6:AE:97:PRO:HD2	1.97	0.45
7:AF:11:HIS:CE1	7:AF:54:LEU:HD22	2.52	0.45
9:AH:95:MET:HG2	9:AH:98:LEU:HD12	1.99	0.45
10:AI:20:ILE:HG12	10:AI:62:LEU:HD22	1.99	0.45
10:AI:28:VAL:HB	10:AI:63:TYR:HD1	1.82	0.45
12:AK:28:ASN:HD21	12:AK:45:THR:CG2	2.30	0.45
12:AK:122:PRO:HB2	12:AK:126:ARG:CB	2.45	0.45
13:AL:111:GLN:O	13:AL:113:ARG:HG3	2.17	0.45
18:AQ:57:VAL:HB	18:AQ:79:GLU:HG2	1.99	0.45
22:B0:658:U:C2'	28:BC:98:LYS:HG2	2.21	0.45
22:B0:801:G:H21	28:BC:65:THR:HB	1.82	0.45
22:B0:996:A:H5''	40:BO:92:LYS:HE2	1.99	0.45
22:B0:1011:G:N2	22:B0:1150:C:O2	2.50	0.45
22:B0:1017:G:O2'	22:B0:1018:U:H5'	2.17	0.45
22:B0:1217:U:H2'	22:B0:1218:G:H8	1.80	0.45
22:B0:1438:U:H2'	22:B0:1439:A:C4	2.52	0.45
22:B0:1700:A:C2'	22:B0:1701:A:H5'	2.46	0.45
22:B0:1772:A:H2'	22:B0:1773:A:C4'	2.44	0.45
22:B0:1996:C:N3	27:BB:138:LEU:HD23	2.30	0.45
22:B0:1996:C:O4'	27:BB:138:LEU:C	2.60	0.45
22:B0:2074:U:H4'	22:B0:2597:G:O2'	2.16	0.45
22:B0:2341:G:H2'	22:B0:2342:C:C6	2.52	0.45
22:B0:2508:G:O2'	22:B0:2509:G:H5'	2.16	0.45
22:B0:2553:G:C2	22:B0:2554:U:H1'	2.52	0.45
23:B9:90:C:O5'	23:B9:90:C:H6	1.98	0.45
25:B5:21:GLU:HA	25:B5:24:SER:OG	2.17	0.45
26:BA:115:ILE:O	26:BA:115:ILE:HG12	2.16	0.45
26:BA:176:ARG:HG2	26:BA:176:ARG:O	2.16	0.45
27:BB:13:ARG:HD2	39:BN:10:GLU:HG3	1.98	0.45
27:BB:164:GLN:HE21	27:BB:164:GLN:HA	1.82	0.45
28:BC:149:ILE:HD12	28:BC:149:ILE:N	2.32	0.45
28:BC:178:VAL:CA	35:BJ:17:LYS:H	2.28	0.45
29:BD:177:ARG:HH11	29:BD:177:ARG:HG3	1.82	0.45
30:BE:142:GLN:HG3	30:BE:146:ASP:OD2	2.17	0.45
32:BG:18:ASN:HA	32:BG:19:PRO:O	2.17	0.45
32:BG:54:ILE:HD13	32:BG:55:PRO:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:70:THR:HG23	32:BG:70:THR:O	2.17	0.45
32:BG:92:PRO:O	32:BG:93:ASN:ND2	2.48	0.45
38:BM:40:ILE:HD13	38:BM:41:ALA:N	2.32	0.45
38:BM:40:ILE:HA	38:BM:46:GLU:O	2.17	0.45
40:BO:5:ARG:HD2	40:BO:9:ALA:HB3	1.98	0.45
42:BR:77:ARG:HH22	42:BR:79:ASP:H	1.57	0.45
44:BT:16:ALA:HA	44:BT:19:ARG:NH1	2.33	0.45
49:B1:5:ARG:HA	49:B1:5:ARG:NH1	2.31	0.45
1:AA:39:G:O2'	1:AA:40:C:H5'	2.17	0.44
1:AA:147:G:H2'	1:AA:148:G:H8	1.82	0.44
1:AA:500:G:H2'	1:AA:501:C:H6	1.80	0.44
1:AA:740:U:H2'	1:AA:741:G:H8	1.82	0.44
1:AA:873:A:H4'	1:AA:874:G:OP1	2.17	0.44
1:AA:1273:C:H2'	1:AA:1274:A:O4'	2.16	0.44
1:AA:1389:C:H2'	1:AA:1390:U:C6	2.52	0.44
1:AA:1487:G:HO2'	1:AA:1488:G:H5'	1.82	0.44
2:AU:58:A:O2'	2:AU:60:C:H5	2.01	0.44
2:AW:55:U:O2	2:AW:57:G:OP2	2.35	0.44
3:AB:158:ASP:O	3:AB:181:PRO:HD2	2.18	0.44
4:AC:120:THR:OG1	4:AC:188:ALA:HB2	2.17	0.44
4:AC:190:THR:HG21	4:AC:192:TYR:CZ	2.52	0.44
5:AD:106:PHE:CD1	5:AD:158:LEU:HD11	2.52	0.44
9:AH:110:MET:HB3	9:AH:114:ALA:HB3	1.99	0.44
12:AK:46:ALA:CB	12:AK:56:LYS:HB2	2.47	0.44
14:AM:30:LYS:HD2	14:AM:30:LYS:N	2.32	0.44
16:AO:26:VAL:O	16:AO:29:ALA:HB3	2.17	0.44
17:AP:20:VAL:HG11	17:AP:32:PHE:CB	2.44	0.44
19:AR:25:ILE:HG13	19:AR:67:LEU:HD21	1.99	0.44
21:AT:57:VAL:HA	21:AT:60:GLN:OE1	2.17	0.44
21:AT:60:GLN:O	21:AT:65:LEU:HB2	2.17	0.44
22:B0:84:A:H4'	22:B0:85:G:O5'	2.17	0.44
22:B0:95:A:H2'	22:B0:96:C:H6	1.82	0.44
22:B0:274:C:O2'	22:B0:275:C:H5'	2.17	0.44
22:B0:627:A:H4'	22:B0:628:G:H5'	1.98	0.44
22:B0:769:U:H2'	22:B0:770:G:H8	1.81	0.44
22:B0:825:A:H61	22:B0:944:C:H42	1.65	0.44
22:B0:960:A:H3'	22:B0:2496:C:O4'	2.17	0.44
22:B0:991:C:O2'	22:B0:992:C:H5'	2.17	0.44
22:B0:1045:C:H4'	25:B5:29:LYS:CE	2.39	0.44
22:B0:1054:A:C1'	25:B3:89:SER:OG	2.65	0.44
22:B0:1153:C:H5''	40:BO:61:ILE:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1199:U:N3	22:B0:1246:A:C2	2.80	0.44
22:B0:1202:G:C4'	35:BJ:14:LYS:HG3	2.47	0.44
22:B0:1408:G:H2'	22:B0:1409:U:C6	2.52	0.44
22:B0:1420:U:O5'	22:B0:1420:U:H6	1.99	0.44
22:B0:1498:C:N4	26:BA:155:ARG:HB3	2.32	0.44
22:B0:1499:U:H3	22:B0:1500:A:H62	1.65	0.44
22:B0:1630:A:H61	22:B0:1637:A:N6	2.15	0.44
22:B0:1666:G:H1	22:B0:1994:C:H42	1.65	0.44
22:B0:1779:U:O2	22:B0:1783:A:N6	2.50	0.44
22:B0:1786:A:N6	22:B0:2606:C:H1'	2.32	0.44
22:B0:1898:U:H2'	22:B0:1899:A:H5'	1.99	0.44
22:B0:2126:A:O2'	22:B0:2171:A:C4	2.70	0.44
22:B0:2153:C:O2'	22:B0:2154:A:H3'	2.17	0.44
22:B0:2195:U:H2'	22:B0:2196:C:H6	1.82	0.44
22:B0:2256:G:H2'	22:B0:2256:G:N3	2.32	0.44
22:B0:2849:U:H2'	22:B0:2850:A:OP2	2.17	0.44
23:B9:18:G:N2	23:B9:65:U:H3	2.13	0.44
24:B2:117:PRO:HG3	24:B2:144:VAL:HG12	1.99	0.44
24:B2:200:PRO:HG2	24:B2:203:ALA:CB	2.37	0.44
26:BA:141:HIS:CE1	26:BA:194:VAL:HA	2.51	0.44
28:BC:136:GLN:HA	28:BC:136:GLN:NE2	2.32	0.44
28:BC:143:LEU:HB3	28:BC:146:VAL:HG21	1.98	0.44
31:BF:30:LEU:HD12	31:BF:30:LEU:N	2.30	0.44
31:BF:84:ALA:HA	31:BF:90:LEU:HA	1.98	0.44
35:BJ:89:VAL:HG23	35:BJ:90:VAL:HG12	1.99	0.44
35:BJ:123:ARG:HG3	35:BJ:143:GLU:HG2	1.99	0.44
38:BM:25:ARG:NH2	38:BM:40:ILE:HD12	2.09	0.44
40:BO:83:LYS:HB2	40:BO:83:LYS:HZ2	1.80	0.44
49:B1:43:ARG:N	49:B1:43:ARG:NE	2.65	0.44
1:AA:105:G:H2'	1:AA:106:C:C6	2.51	0.44
1:AA:321:A:O2'	1:AA:322:C:H5'	2.17	0.44
1:AA:872:A:C4'	1:AA:873:A:OP1	2.65	0.44
1:AA:969:A:O2'	1:AA:970:C:H5'	2.17	0.44
1:AA:979:C:N3	20:AS:7:GLY:HA3	2.31	0.44
1:AA:1097:C:H1'	1:AA:1167:A:C4	2.52	0.44
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.66	0.44
3:AB:53:LEU:O	3:AB:56:LEU:HB3	2.18	0.44
3:AB:113:LEU:HD12	3:AB:143:LEU:HB3	1.98	0.44
4:AC:54:ILE:O	4:AC:54:ILE:HG12	2.17	0.44
8:AG:41:ILE:HG23	8:AG:116:ALA:HA	1.99	0.44
8:AG:139:ASP:HA	8:AG:142:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:15:VAL:HG12	12:AK:17:ASP:O	2.17	0.44
14:AM:92:ARG:NH1	14:AM:96:VAL:HG12	2.27	0.44
15:AN:61:ASN:O	15:AN:62:ARG:HB2	2.16	0.44
19:AR:64:LEU:O	19:AR:65:SER:HB3	2.16	0.44
20:AS:10:ILE:O	20:AS:11:ASP:C	2.59	0.44
22:B0:349:U:O5'	22:B0:349:U:H6	2.00	0.44
22:B0:369:U:P	22:B0:404:A:N6	2.91	0.44
22:B0:401:A:H2'	22:B0:402:A:O4'	2.17	0.44
22:B0:501:A:H2'	22:B0:501:A:N3	2.33	0.44
22:B0:658:U:O2	28:BC:98:LYS:HB3	2.17	0.44
22:B0:659:G:N2	28:BC:97:ASN:HB3	2.29	0.44
22:B0:1046:A:H1'	25:B5:25:ALA:CA	2.47	0.44
22:B0:1401:G:H2'	22:B0:1402:U:C6	2.51	0.44
22:B0:1479:G:C5'	22:B0:1559:U:H4'	2.46	0.44
22:B0:1550:C:H2'	22:B0:1551:A:H8	1.81	0.44
22:B0:1630:A:N6	22:B0:1637:A:C6	2.86	0.44
22:B0:1650:A:H2	22:B0:2007:U:H3	1.64	0.44
22:B0:1669:A:C2	22:B0:1994:C:H1'	2.52	0.44
22:B0:1948:G:H1	22:B0:1958:C:H42	1.65	0.44
22:B0:2023:C:H2'	22:B0:2024:G:C8	2.52	0.44
22:B0:2158:A:C2'	22:B0:2159:G:H4'	2.47	0.44
22:B0:2298:A:H3'	22:B0:2299:U:C6	2.53	0.44
22:B0:2898:G:O4'	33:BH:17:VAL:CG2	2.64	0.44
23:B9:70:C:H2'	23:B9:71:C:C6	2.52	0.44
24:B2:45:VAL:HG21	24:B2:195:LEU:CD2	2.47	0.44
27:BB:82:PHE:C	27:BB:83:ARG:HG3	2.42	0.44
27:BB:125:TRP:O	27:BB:126:ASN:CG	2.60	0.44
28:BC:73:ILE:C	28:BC:75:SER:H	2.24	0.44
28:BC:91:ASP:O	28:BC:92:HIS:C	2.60	0.44
28:BC:93:SER:N	35:BJ:28:GLY:HA2	2.31	0.44
28:BC:108:ILE:C	28:BC:108:ILE:CD1	2.90	0.44
32:BG:126:ARG:HG3	32:BG:126:ARG:HH11	1.81	0.44
33:BH:110:PRO:HD2	33:BH:113:PRO:CB	2.46	0.44
34:BI:66:LYS:HZ3	34:BI:81:GLY:HA2	1.79	0.44
39:BN:4:ILE:CD1	39:BN:5:LYS:HD2	2.48	0.44
39:BN:9:GLN:HE21	39:BN:9:GLN:N	2.14	0.44
40:BO:14:LYS:CG	40:BO:15:LYS:HG2	2.43	0.44
44:BT:26:PHE:HE2	44:BT:89:ILE:HD13	1.80	0.44
46:BW:44:LYS:HG2	46:BW:48:ARG:HE	1.82	0.44
49:B1:42:VAL:HG13	49:B1:43:ARG:N	2.32	0.44
1:AA:37:U:O2'	1:AA:500:G:H1'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:107:G:C3'	1:AA:108:G:H21	2.17	0.44
1:AA:173:U:H5''	1:AA:174:A:P	2.57	0.44
1:AA:266:G:C5'	1:AA:267:C:OP1	2.62	0.44
1:AA:976:G:H21	1:AA:1362:A:H3'	1.82	0.44
1:AA:1330:U:H2'	1:AA:1331:G:O4'	2.17	0.44
1:AA:1453:G:N2	1:AA:1454:G:N7	2.65	0.44
2:AV:14:A:H2'	2:AV:15:G:O4'	2.17	0.44
4:AC:166:TRP:O	4:AC:167:TYR:HB3	2.18	0.44
6:AE:25:LYS:HE3	6:AE:25:LYS:CA	2.46	0.44
8:AG:152:HIS:HD1	8:AG:152:HIS:H	1.65	0.44
10:AI:15:ALA:O	10:AI:66:VAL:HA	2.18	0.44
10:AI:129:ARG:HG3	10:AI:129:ARG:HH11	1.83	0.44
13:AL:42:LYS:HG3	13:AL:44:PRO:CD	2.41	0.44
15:AN:62:ARG:HD3	15:AN:69:PRO:HB3	1.99	0.44
22:B0:407:G:H2'	22:B0:408:G:C8	2.53	0.44
22:B0:466:A:H2'	22:B0:467:G:H5'	1.99	0.44
22:B0:517:C:H2'	22:B0:518:G:H8	1.82	0.44
22:B0:674:G:N2	22:B0:2444:G:O2'	2.51	0.44
22:B0:716:A:H2'	22:B0:717:C:O4'	2.17	0.44
22:B0:1132:U:O2'	22:B0:1133:A:H5'	2.18	0.44
22:B0:1231:U:H2'	22:B0:1232:G:C8	2.52	0.44
22:B0:1264:A:H2	22:B0:2016:U:O4	2.01	0.44
22:B0:1293:C:H2'	22:B0:1294:U:C6	2.52	0.44
22:B0:1496:A:O4'	26:BA:190:THR:OG1	2.35	0.44
22:B0:1582:C:H2'	26:BA:96:LYS:HB3	1.98	0.44
22:B0:1632:A:O3'	22:B0:1633:G:H8	2.01	0.44
22:B0:1821:A:H2'	22:B0:1822:C:O4'	2.17	0.44
22:B0:2162:G:C8	22:B0:2163:G:N2	2.85	0.44
22:B0:2165:C:N4	22:B0:2172:U:O3'	2.50	0.44
22:B0:2179:C:OP2	22:B0:2180:U:O3'	2.34	0.44
22:B0:2286:G:N7	49:B1:24:LYS:NZ	2.64	0.44
22:B0:2729:G:O6	27:BB:126:ASN:OD1	2.35	0.44
24:B2:47:LEU:HD22	24:B2:207:TYR:CZ	2.52	0.44
25:B3:64:ASN:O	25:B3:68:VAL:HG23	2.17	0.44
26:BA:63:ILE:C	26:BA:64:VAL:HG23	2.42	0.44
27:BB:165:MET:HG3	27:BB:166:GLY:N	2.33	0.44
28:BC:141:MET:O	28:BC:142:ALA:HB3	2.17	0.44
29:BD:48:LEU:N	29:BD:48:LEU:HD12	2.33	0.44
31:BF:96:THR:HG23	31:BF:97:ARG:N	2.32	0.44
32:BG:20:SER:OG	32:BG:21:PRO:HD3	2.18	0.44
32:BG:138:VAL:HG22	32:BG:139:VAL:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:31:GLU:O	33:BH:33:ALA:N	2.48	0.44
33:BH:56:VAL:HG11	33:BH:59:ALA:HB2	1.98	0.44
37:BL:44:LEU:HD23	37:BL:47:VAL:HG11	2.00	0.44
37:BL:59:SER:OG	37:BL:62:ASN:ND2	2.48	0.44
39:BN:24:THR:CA	39:BN:49:ILE:HG12	2.43	0.44
39:BN:99:LEU:HD23	39:BN:100:ARG:O	2.17	0.44
40:BO:40:LYS:O	40:BO:44:TYR:HD2	2.00	0.44
40:BO:43:GLN:HA	40:BO:46:TYR:CA	2.46	0.44
42:BR:12:ARG:N	42:BR:33:LYS:O	2.47	0.44
45:BU:43:LYS:HE2	45:BU:44:PHE:H	1.82	0.44
45:BU:58:LEU:C	45:BU:81:ILE:HD13	2.42	0.44
46:BW:39:GLN:NE2	46:BW:40:SER:N	2.63	0.44
1:AA:389:A:C2'	1:AA:390:U:H5'	2.47	0.44
1:AA:636:U:H2'	1:AA:637:C:C6	2.53	0.44
1:AA:648:A:H2'	1:AA:649:A:C8	2.53	0.44
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.81	0.44
1:AA:1279:G:O2'	1:AA:1282:C:N4	2.50	0.44
3:AB:55:GLU:HG2	3:AB:197:PHE:CE2	2.53	0.44
4:AC:76:ILE:HG22	4:AC:80:GLY:HA2	2.00	0.44
4:AC:133:MET:HG3	4:AC:134:LYS:H	1.82	0.44
5:AD:25:ARG:C	5:AD:27:ILE:H	2.26	0.44
5:AD:144:ILE:HG22	5:AD:145:ARG:N	2.32	0.44
6:AE:156:ARG:O	9:AH:65:PHE:CB	2.65	0.44
9:AH:50:VAL:O	9:AH:50:VAL:HG13	2.17	0.44
9:AH:77:VAL:HG22	9:AH:84:ILE:HD13	1.98	0.44
13:AL:42:LYS:NZ	13:AL:87:LYS:HE3	2.33	0.44
15:AN:40:ARG:N	20:AS:16:LYS:HB2	2.32	0.44
17:AP:40:ASN:OD1	17:AP:45:GLU:HG2	2.18	0.44
19:AR:25:ILE:HG13	19:AR:67:LEU:CD2	2.48	0.44
22:B0:120:U:H1'	22:B0:149:A:N7	2.33	0.44
22:B0:204:A:O3'	22:B0:205:G:C4'	2.66	0.44
22:B0:457:A:O2'	22:B0:458:G:C4'	2.65	0.44
22:B0:493:G:C8	41:BQ:8:ARG:O	2.71	0.44
22:B0:820:A:H2'	22:B0:821:A:O4'	2.18	0.44
22:B0:926:G:H2'	22:B0:928:A:H8	1.83	0.44
22:B0:1064:C:H2'	22:B0:1065:U:O4'	2.17	0.44
22:B0:1316:U:H2'	22:B0:1317:G:C8	2.53	0.44
22:B0:1495:A:OP1	26:BA:189:ALA:HB3	2.17	0.44
22:B0:1497:U:H3'	26:BA:63:ILE:CD1	2.47	0.44
22:B0:1567:G:O2'	22:B0:1568:G:C5	2.70	0.44
22:B0:2471:A:H2	22:B0:2479:U:O4	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2493:U:H2'	22:B0:2494:G:C8	2.52	0.44
22:B0:2670:A:H2'	22:B0:2671:G:H8	1.82	0.44
22:B0:2771:C:H2'	22:B0:2772:C:C6	2.52	0.44
22:B0:2786:U:H2'	22:B0:2787:C:H6	1.83	0.44
25:B3:78:LEU:HB3	25:B3:82:GLU:CG	2.47	0.44
25:B5:86:LEU:O	25:B5:91:PRO:HD2	2.17	0.44
26:BA:79:ARG:HH11	26:BA:79:ARG:HG3	1.83	0.44
26:BA:81:GLU:O	26:BA:90:ILE:HG12	2.17	0.44
26:BA:164:VAL:HG23	26:BA:173:LEU:HA	1.98	0.44
26:BA:179:GLU:O	26:BA:180:MET:C	2.60	0.44
28:BC:49:ARG:CG	28:BC:50:ALA:H	2.11	0.44
28:BC:108:ILE:CG1	28:BC:180:LEU:HB3	2.47	0.44
29:BD:168:LEU:HD12	29:BD:168:LEU:C	2.42	0.44
32:BG:129:GLU:CA	32:BG:132:ALA:HB2	2.47	0.44
33:BH:90:GLU:C	33:BH:92:MET:H	2.26	0.44
34:BI:7:MET:SD	34:BI:7:MET:C	3.00	0.44
38:BM:7:ARG:HD3	38:BM:7:ARG:N	2.22	0.44
39:BN:29:VAL:CG2	39:BN:30:TRP:H	2.13	0.44
46:BW:6:LEU:HD22	46:BW:6:LEU:N	2.33	0.44
48:BZ:29:VAL:HB	48:BZ:32:THR:O	2.16	0.44
1:AA:58:C:O2'	1:AA:59:A:H5'	2.16	0.44
1:AA:280:C:H5''	1:AA:281:G:OP2	2.17	0.44
1:AA:371:A:O2'	1:AA:372:C:H5'	2.17	0.44
1:AA:372:C:H4'	1:AA:373:A:H8	1.81	0.44
1:AA:372:C:H2'	1:AA:373:A:OP2	2.18	0.44
1:AA:502:A:H2'	1:AA:503:C:O4'	2.18	0.44
1:AA:686:U:H2'	1:AA:687:A:O4'	2.17	0.44
1:AA:1049:U:O2'	1:AA:1050:G:P	2.76	0.44
1:AA:1117:A:C2'	1:AA:1118:U:H5'	2.45	0.44
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.52	0.44
1:AA:1290:G:H4'	1:AA:1372:U:H4'	1.99	0.44
1:AA:1299:A:H3'	1:AA:1299:A:N3	2.33	0.44
2:AU:22:G:O2'	2:AU:23:A:H5'	2.17	0.44
2:AU:75:C:H5''	22:B0:2557:G:C8	2.51	0.44
3:AB:215:ALA:O	3:AB:219:THR:HG23	2.17	0.44
4:AC:115:VAL:HG11	4:AC:199:VAL:HG11	1.99	0.44
4:AC:195:ILE:HD12	4:AC:196:GLY:N	2.32	0.44
5:AD:53:GLN:HE21	5:AD:198:LEU:HD22	1.82	0.44
6:AE:79:THR:HG21	6:AE:98:ALA:O	2.18	0.44
7:AF:12:PRO:HD2	7:AF:54:LEU:CD2	2.47	0.44
8:AG:37:THR:O	8:AG:40:SER:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:109:GLN:O	10:AI:110:VAL:C	2.60	0.44
11:AJ:32:THR:HG23	11:AJ:33:GLY:N	2.32	0.44
17:AP:39:PHE:CE2	17:AP:41:PRO:HG3	2.52	0.44
20:AS:65:MET:HE3	20:AS:73:PHE:CE2	2.52	0.44
20:AS:81:GLY:O	20:AS:83:ALA:N	2.50	0.44
21:AT:31:ILE:HD13	21:AT:31:ILE:C	2.42	0.44
22:B0:38:A:H2'	22:B0:39:G:H8	1.82	0.44
22:B0:71:A:H4'	22:B0:73:A:OP2	2.18	0.44
22:B0:152:A:H2'	22:B0:153:U:C6	2.53	0.44
22:B0:284:U:H2'	22:B0:285:G:C8	2.52	0.44
22:B0:372:G:O2'	22:B0:373:U:C5	2.69	0.44
22:B0:434:U:O2'	22:B0:435:C:C6	2.71	0.44
22:B0:490:C:O2'	22:B0:491:G:P	2.76	0.44
22:B0:629:G:N3	22:B0:639:U:H4'	2.33	0.44
22:B0:672:C:H2'	22:B0:673:C:H6	1.81	0.44
22:B0:801:G:HO2'	22:B0:802:A:P	2.35	0.44
22:B0:807:U:H4'	22:B0:2445:G:O3'	2.18	0.44
22:B0:814:C:H2'	22:B0:815:C:C6	2.52	0.44
22:B0:948:C:H2'	22:B0:949:G:H8	1.82	0.44
22:B0:1202:G:O6	22:B0:1243:C:N3	2.51	0.44
22:B0:1324:G:N2	22:B0:1330:C:N3	2.60	0.44
22:B0:1326:U:H4'	22:B0:2011:U:H4'	1.99	0.44
22:B0:1495:A:N3	26:BA:65:ASP:HB2	2.32	0.44
22:B0:1497:U:O2'	26:BA:83:ASP:OD1	2.30	0.44
22:B0:1499:U:O5'	22:B0:1499:U:H6	2.00	0.44
22:B0:1803:A:H2	22:B0:1823:G:H1'	1.83	0.44
22:B0:2094:A:N6	22:B0:2195:U:H3	2.14	0.44
22:B0:2493:U:H6	22:B0:2493:U:O5'	2.01	0.44
22:B0:2856:A:H3'	22:B0:2857:G:C8	2.52	0.44
26:BA:158:GLY:H	26:BA:194:VAL:CG2	2.29	0.44
27:BB:7:LYS:HD2	27:BB:198:GLY:O	2.18	0.44
27:BB:31:ALA:C	27:BB:32:ASN:HD22	2.25	0.44
27:BB:124:ARG:O	27:BB:126:ASN:N	2.50	0.44
28:BC:4:VAL:O	28:BC:119:ILE:HD11	2.17	0.44
28:BC:47:LYS:HB3	28:BC:47:LYS:HZ3	1.82	0.44
28:BC:104:ALA:HA	28:BC:107:SER:HG	1.81	0.44
29:BD:34:THR:C	29:BD:35:LEU:HD22	2.43	0.44
30:BE:85:LYS:HB2	30:BE:170:THR:HG22	2.00	0.44
32:BG:9:LYS:CE	32:BG:10:LEU:H	2.30	0.44
33:BH:116:ARG:C	33:BH:118:MET:N	2.75	0.44
37:BL:49:GLU:CB	37:BL:52:ILE:HG12	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:73:ASN:HA	37:BL:76:VAL:CG1	2.47	0.44
39:BN:49:ILE:CD1	39:BN:99:LEU:HD13	2.47	0.44
39:BN:50:ARG:HG2	39:BN:99:LEU:O	2.17	0.44
40:BO:4:LYS:NZ	40:BO:5:ARG:HB3	2.32	0.44
40:BO:49:ARG:HG3	40:BO:50:ARG:N	2.32	0.44
43:BS:85:ARG:HH11	43:BS:85:ARG:HG3	1.82	0.44
45:BU:59:PHE:N	45:BU:81:ILE:HD13	2.33	0.44
45:BU:68:PHE:CG	45:BU:69:GLU:N	2.86	0.44
47:BX:6:ILE:HG23	47:BX:54:VAL:HG21	1.98	0.44
1:AA:47:C:C4'	1:AA:48:C:OP1	2.66	0.44
1:AA:281:G:O2'	1:AA:282:A:C8	2.70	0.44
1:AA:826:C:H2'	1:AA:827:U:C6	2.52	0.44
1:AA:986:U:H2'	1:AA:987:G:C8	2.53	0.44
1:AA:1173:U:H2'	1:AA:1174:G:C8	2.53	0.44
5:AD:101:VAL:HG13	5:AD:106:PHE:HB2	1.99	0.44
7:AF:7:VAL:HG23	7:AF:88:MET:H	1.83	0.44
8:AG:79:VAL:HB	8:AG:84:TYR:CD2	2.53	0.44
10:AI:119:LYS:O	10:AI:120:ALA:HB3	2.18	0.44
11:AJ:10:LEU:HB2	11:AJ:72:ARG:HB2	1.99	0.44
22:B0:182:A:O2'	22:B0:183:C:H5'	2.17	0.44
22:B0:371:A:C5'	22:B0:372:G:OP1	2.65	0.44
22:B0:481:G:N1	22:B0:507:A:O2'	2.43	0.44
22:B0:490:C:O5'	22:B0:490:C:H6	2.00	0.44
22:B0:655:A:O2'	22:B0:656:G:C8	2.70	0.44
22:B0:658:U:H6	22:B0:658:U:O5'	2.00	0.44
22:B0:1083:U:O2'	25:B3:81:LYS:CD	2.65	0.44
22:B0:1111:A:HO2'	22:B0:1112:G:C1'	2.31	0.44
22:B0:1496:A:C8	26:BA:190:THR:HG21	2.53	0.44
22:B0:1838:C:O4'	22:B0:1899:A:N6	2.51	0.44
22:B0:2143:C:HO2'	22:B0:2144:G:P	2.41	0.44
22:B0:2155:U:H3'	22:B0:2156:G:C5'	2.47	0.44
22:B0:2165:C:O2	22:B0:2165:C:O4'	2.35	0.44
22:B0:2263:C:C5	45:BU:11:ASN:HB2	2.52	0.44
22:B0:2298:A:H3'	22:B0:2299:U:H6	1.83	0.44
22:B0:2644:G:O2'	22:B0:2645:G:OP2	2.35	0.44
22:B0:2718:G:H2'	22:B0:2719:G:O4'	2.17	0.44
22:B0:2783:U:OP1	33:BH:120:ARG:HD2	2.17	0.44
23:B9:51:G:H2'	23:B9:52:A:O4'	2.18	0.44
24:B2:26:ILE:HG12	24:B2:185:LYS:N	2.32	0.44
25:B3:90:ALA:N	25:B3:91:PRO:CD	2.79	0.44
26:BA:40:GLY:CA	26:BA:45:ASN:HD22	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:31:VAL:HB	35:BJ:17:LYS:HD2	2.00	0.44
28:BC:93:SER:CB	35:BJ:28:GLY:N	2.80	0.44
29:BD:32:LYS:HA	29:BD:91:ARG:NE	2.32	0.44
29:BD:36:ASN:O	29:BD:37:MET:HE2	2.18	0.44
29:BD:163:GLU:O	29:BD:164:GLU:HB3	2.17	0.44
33:BH:41:LYS:CD	33:BH:43:GLU:H	2.24	0.44
35:BJ:128:THR:O	35:BJ:131:ALA:HB3	2.18	0.44
41:BQ:102:HIS:NE2	41:BQ:104:THR:OG1	2.51	0.44
44:BT:83:LYS:HG3	44:BT:83:LYS:O	2.17	0.44
1:AA:243:A:H4'	1:AA:244:U:C5'	2.47	0.44
1:AA:370:C:H2'	1:AA:371:A:C8	2.52	0.44
1:AA:398:U:H2'	1:AA:399:G:C8	2.52	0.44
1:AA:436:C:O2'	1:AA:437:U:OP1	2.34	0.44
1:AA:482:A:H5''	1:AA:485:U:H1'	2.00	0.44
1:AA:669:G:H2'	1:AA:670:G:C8	2.53	0.44
1:AA:878:A:H2'	1:AA:879:C:C6	2.52	0.44
1:AA:1052:U:H2'	1:AA:1200:C:H41	1.80	0.44
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.53	0.44
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.53	0.44
1:AA:1289:A:C2	1:AA:1290:G:H1'	2.53	0.44
1:AA:1406:U:H1'	1:AA:1517:G:O2'	2.18	0.44
4:AC:153:SER:C	4:AC:195:ILE:HD13	2.42	0.44
6:AE:152:VAL:HA	9:AH:68:LYS:NZ	2.33	0.44
7:AF:10:VAL:HG11	7:AF:21:MET:CE	2.47	0.44
7:AF:74:LEU:HD13	7:AF:74:LEU:C	2.42	0.44
10:AI:122:ARG:HG2	10:AI:122:ARG:HH11	1.82	0.44
10:AI:128:LYS:O	10:AI:129:ARG:C	2.60	0.44
20:AS:18:VAL:HG23	20:AS:46:LEU:HD22	2.00	0.44
22:B0:120:U:H1'	22:B0:149:A:C8	2.52	0.44
22:B0:508:A:H4'	22:B0:509:C:C5'	2.47	0.44
22:B0:588:U:C2	22:B0:589:U:C4	3.06	0.44
22:B0:800:A:H4'	22:B0:801:G:C5'	2.47	0.44
22:B0:801:G:H1	28:BC:72:SER:CA	2.31	0.44
22:B0:824:U:H2'	22:B0:825:A:C8	2.53	0.44
22:B0:961:C:C2	22:B0:2499:C:C5	3.05	0.44
22:B0:994:C:P	40:BO:53:LYS:HG3	2.58	0.44
22:B0:1060:U:H4'	22:B0:1061:U:C5'	2.48	0.44
22:B0:1261:C:H2'	22:B0:1262:A:C8	2.53	0.44
22:B0:1324:G:C4'	22:B0:1616:A:N6	2.81	0.44
22:B0:1417:U:H4'	22:B0:1588:A:C1'	2.47	0.44
22:B0:1570:A:H2'	22:B0:1571:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1578:U:H2'	26:BA:66:PHE:N	2.33	0.44
22:B0:2032:G:O6	22:B0:2571:U:C4'	2.66	0.44
22:B0:2533:U:H2'	22:B0:2534:A:O4'	2.18	0.44
25:B3:49:GLU:O	25:B5:16:VAL:HG23	2.18	0.44
25:B5:58:LEU:HD21	25:B5:87:VAL:HG13	1.99	0.44
28:BC:154:ASP:CG	28:BC:155:GLU:N	2.75	0.44
29:BD:22:ASN:OD1	29:BD:23:SER:N	2.48	0.44
29:BD:37:MET:HE2	29:BD:37:MET:HA	2.00	0.44
30:BE:49:LEU:C	30:BE:49:LEU:HD13	2.42	0.44
30:BE:86:LEU:CD2	30:BE:147:LEU:HD23	2.47	0.44
32:BG:54:ILE:O	32:BG:54:ILE:HG23	2.18	0.44
33:BH:115:GLY:O	33:BH:118:MET:HB3	2.18	0.44
34:BI:24:VAL:HG22	34:BI:25:LEU:N	2.32	0.44
35:BJ:25:SER:C	35:BJ:26:GLY:O	2.61	0.44
37:BL:8:ARG:C	37:BL:8:ARG:NE	2.76	0.44
41:BQ:37:THR:HG23	41:BQ:38:TYR:CD2	2.53	0.44
43:BS:46:LYS:O	43:BS:48:VAL:N	2.50	0.44
44:BT:60:VAL:O	44:BT:60:VAL:HG22	2.18	0.44
1:AA:496:A:H1'	1:AA:497:G:C8	2.53	0.44
1:AA:521:G:O2'	1:AA:522:C:H5'	2.17	0.44
1:AA:533:A:O2'	1:AA:534:U:P	2.75	0.44
1:AA:985:C:H2'	1:AA:986:U:C6	2.53	0.44
1:AA:1117:A:H1'	10:AI:107:ALA:HB2	2.00	0.44
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.18	0.44
2:AU:30:G:H2'	2:AU:31:A:H8	1.83	0.44
2:AW:66:A:O2'	2:AW:67:A:H5'	2.18	0.44
3:AB:34:ARG:C	3:AB:36:LYS:H	2.25	0.44
4:AC:10:ARG:O	4:AC:15:LYS:HB3	2.17	0.44
4:AC:130:ARG:HA	4:AC:133:MET:SD	2.58	0.44
4:AC:146:LYS:HB2	4:AC:202:PHE:CD2	2.53	0.44
4:AC:194:VAL:HG12	4:AC:195:ILE:N	2.33	0.44
5:AD:12:ARG:HH11	5:AD:29:THR:HG21	1.83	0.44
5:AD:12:ARG:HD3	5:AD:29:THR:HG22	1.99	0.44
10:AI:60:LEU:HD12	10:AI:60:LEU:N	2.33	0.44
12:AK:100:ASN:ND2	12:AK:106:ILE:HG21	2.33	0.44
12:AK:119:GLY:C	12:AK:121:ARG:N	2.75	0.44
13:AL:73:LEU:HD22	13:AL:77:SER:HB3	2.00	0.44
19:AR:44:THR:HG23	19:AR:46:THR:H	1.83	0.44
22:B0:534:U:H2'	22:B0:535:G:C8	2.53	0.44
22:B0:588:U:OP2	28:BC:43:THR:HG23	2.17	0.44
22:B0:857:G:H21	22:B0:2269:G:H1'	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:928:A:H2'	22:B0:929:U:O5'	2.17	0.44
22:B0:992:C:N4	22:B0:993:G:O6	2.51	0.44
22:B0:1129:A:O2'	22:B0:2516:A:H4'	2.17	0.44
22:B0:1185:G:P	22:B0:1185:G:H8	2.41	0.44
22:B0:1494:A:N6	26:BA:188:ARG:CB	2.81	0.44
22:B0:2020:A:H2'	22:B0:2021:C:O4'	2.17	0.44
22:B0:2058:A:HO2'	22:B0:2059:A:P	2.40	0.44
22:B0:2462:C:H2'	22:B0:2463:C:C6	2.52	0.44
22:B0:2677:G:N2	22:B0:2731:G:H1'	2.33	0.44
22:B0:2825:G:C2'	22:B0:2826:A:H5'	2.47	0.44
22:B0:2891:A:N6	22:B0:2892:G:N3	2.66	0.44
23:B9:73:A:H2'	23:B9:74:U:C6	2.53	0.44
24:B2:127:GLY:HA3	24:B2:136:MET:CE	2.45	0.44
26:BA:171:VAL:CG2	26:BA:172:THR:N	2.80	0.44
27:BB:13:ARG:HG2	27:BB:14:ILE:H	1.83	0.44
28:BC:98:LYS:CB	28:BC:99:LYS:HD2	2.48	0.44
29:BD:105:ILE:O	29:BD:105:ILE:HD12	2.17	0.44
29:BD:175:PRO:O	29:BD:176:PHE:HB2	2.17	0.44
32:BG:22:PRO:HG2	32:BG:23:VAL:H	1.82	0.44
33:BH:54:ILE:HG13	33:BH:55:ILE:N	2.33	0.44
33:BH:113:PRO:C	33:BH:115:GLY:H	2.24	0.44
37:BL:39:PRO:O	37:BL:42:LYS:HD2	2.17	0.44
38:BM:52:SER:OG	38:BM:54:VAL:HG12	2.17	0.44
39:BN:8:GLU:HA	39:BN:10:GLU:OE2	2.18	0.44
39:BN:64:SER:HA	39:BN:71:ARG:CD	2.48	0.44
40:BO:60:TRP:N	40:BO:60:TRP:CE3	2.86	0.44
42:BR:68:LYS:CA	42:BR:73:ARG:HH21	2.31	0.44
46:BW:38:GLN:O	46:BW:38:GLN:HG2	2.17	0.44
48:BZ:48:TYR:HD1	48:BZ:50:GLY:H	1.65	0.44
1:AA:166:U:H2'	1:AA:167:A:C8	2.53	0.44
1:AA:184:G:H2'	1:AA:185:U:C6	2.53	0.44
1:AA:582:C:N4	1:AA:758:C:H2'	2.33	0.44
1:AA:646:G:H2'	1:AA:647:C:C6	2.53	0.44
1:AA:865:A:H2'	1:AA:866:C:C6	2.52	0.44
1:AA:1064:G:O2'	1:AA:1065:U:H5''	2.18	0.44
1:AA:1196:A:H5''	1:AA:1197:A:C5'	2.48	0.44
1:AA:1224:U:C2	1:AA:1322:C:N4	2.86	0.44
2:AU:23:A:H2'	2:AU:24:G:H8	1.83	0.44
2:AW:58:A:O2'	2:AW:60:C:H5	2.00	0.44
4:AC:133:MET:O	4:AC:137:VAL:HG23	2.17	0.44
4:AC:187:GLU:HG3	4:AC:188:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:21:LEU:HD12	8:AG:61:PHE:HE2	1.83	0.44
9:AH:38:VAL:O	9:AH:42:GLU:HG2	2.17	0.44
9:AH:84:ILE:HD11	9:AH:124:ILE:HB	2.00	0.44
12:AK:86:LYS:HG2	12:AK:112:VAL:HG13	2.00	0.44
15:AN:40:ARG:HA	20:AS:13:HIS:HB2	2.00	0.44
16:AO:38:LEU:HD22	16:AO:42:PHE:CE2	2.53	0.44
17:AP:5:ARG:O	17:AP:19:VAL:HA	2.18	0.44
17:AP:20:VAL:HG12	17:AP:21:VAL:N	2.33	0.44
20:AS:11:ASP:HB3	20:AS:13:HIS:ND1	2.31	0.44
21:AT:26:MET:HE2	21:AT:26:MET:HA	2.00	0.44
22:B0:370:G:H5''	22:B0:371:A:OP2	2.18	0.44
22:B0:492:A:C2	41:BQ:11:ARG:HD3	2.53	0.44
22:B0:859:G:C5'	22:B0:860:U:OP1	2.58	0.44
22:B0:1327:A:H2'	22:B0:1328:A:O4'	2.17	0.44
22:B0:1344:U:H4'	22:B0:1384:A:C5	2.53	0.44
22:B0:1825:U:H2'	22:B0:1826:G:H8	1.83	0.44
22:B0:1938:A:H2'	22:B0:1939:U:H5'	1.99	0.44
22:B0:2004:G:H2'	22:B0:2005:A:O4'	2.17	0.44
22:B0:2136:G:O6	22:B0:2163:G:O5'	2.36	0.44
22:B0:2606:C:H2'	22:B0:2607:G:C8	2.53	0.44
22:B0:2619:C:H2'	22:B0:2620:C:C6	2.53	0.44
22:B0:2670:A:H2'	22:B0:2671:G:C8	2.53	0.44
22:B0:2772:C:H2'	22:B0:2773:C:C6	2.53	0.44
22:B0:2835:A:H4'	22:B0:2836:U:C6	2.53	0.44
22:B0:2887:A:H2'	22:B0:2888:C:O4'	2.17	0.44
24:B2:92:GLU:C	24:B2:93:LEU:HD12	2.43	0.44
24:B2:192:LEU:HD13	24:B2:192:LEU:O	2.18	0.44
25:B5:46:GLU:O	25:B5:47:ALA:C	2.59	0.44
26:BA:144:GLU:OE1	26:BA:188:ARG:NH1	2.50	0.44
26:BA:186:ASP:C	26:BA:188:ARG:HH21	2.26	0.44
26:BA:261:ARG:HG2	26:BA:261:ARG:HH11	1.82	0.44
28:BC:126:VAL:HG21	28:BC:155:GLU:OE1	2.18	0.44
31:BF:79:THR:O	31:BF:80:ILE:HD13	2.18	0.44
32:BG:105:LEU:HD21	32:BG:129:GLU:OE1	2.17	0.44
35:BJ:99:ASN:N	35:BJ:99:ASN:ND2	2.66	0.44
36:BK:54:THR:HA	36:BK:57:VAL:HG22	1.99	0.44
37:BL:34:ILE:HG22	37:BL:35:LYS:N	2.32	0.44
38:BM:15:ARG:N	38:BM:15:ARG:CD	2.81	0.44
38:BM:26:LEU:HD23	38:BM:92:PHE:HD1	1.83	0.44
39:BN:36:LYS:HE3	39:BN:37:LYS:NZ	2.33	0.44
41:BQ:33:LEU:HD12	41:BQ:33:LEU:C	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BQ:62:ASP:O	41:BQ:63:GLY:C	2.60	0.44
42:BR:64:LYS:N	42:BR:64:LYS:HD3	2.32	0.44
43:BS:53:GLN:OE1	43:BS:53:GLN:N	2.51	0.44
45:BU:38:ARG:O	45:BU:39:GLN:HB2	2.16	0.44
1:AA:60:A:O2'	1:AA:61:G:O5'	2.36	0.43
1:AA:404:G:H5'	1:AA:546:A:O2'	2.18	0.43
1:AA:477:C:H2'	1:AA:478:A:C8	2.52	0.43
1:AA:656:G:O2'	1:AA:657:U:H5'	2.18	0.43
1:AA:741:G:N2	1:AA:742:G:H1'	2.33	0.43
1:AA:748:G:O2'	1:AA:749:A:O5'	2.35	0.43
1:AA:750:C:H2'	1:AA:751:U:C6	2.53	0.43
1:AA:942:G:H2'	1:AA:943:U:C6	2.53	0.43
1:AA:1059:C:P	4:AC:2:GLN:OE1	2.76	0.43
1:AA:1297:G:H5''	1:AA:1298:U:OP1	2.18	0.43
1:AA:1472:U:H2'	1:AA:1473:G:C8	2.53	0.43
1:AA:1495:U:H4'	22:B0:1911:U:O2'	2.18	0.43
3:AB:27:LYS:N	3:AB:28:PRO:CD	2.79	0.43
4:AC:35:ASP:HB3	4:AC:39:ARG:HH12	1.83	0.43
4:AC:153:SER:HA	4:AC:163:ARG:O	2.17	0.43
7:AF:50:PRO:C	7:AF:51:ILE:HG13	2.40	0.43
9:AH:14:ARG:NH2	9:AH:75:GLN:HG2	2.33	0.43
9:AH:87:ARG:HB2	9:AH:87:ARG:NH1	2.32	0.43
10:AI:15:ALA:HB3	10:AI:67:LYS:HE3	2.00	0.43
12:AK:30:ILE:HG12	12:AK:45:THR:OG1	2.18	0.43
12:AK:46:ALA:HA	12:AK:61:ALA:HB1	1.99	0.43
17:AP:20:VAL:HG13	17:AP:34:GLU:C	2.42	0.43
19:AR:6:ARG:HH21	19:AR:42:ARG:NE	2.07	0.43
22:B0:78:U:H2'	22:B0:79:C:C6	2.52	0.43
22:B0:238:C:H2'	22:B0:239:C:H6	1.83	0.43
22:B0:290:U:H2'	22:B0:291:G:C8	2.53	0.43
22:B0:394:C:H2'	22:B0:395:U:C6	2.53	0.43
22:B0:503:A:H2'	22:B0:505:A:C1'	2.48	0.43
22:B0:598:U:H2'	22:B0:599:A:C8	2.53	0.43
22:B0:666:A:OP2	35:BJ:48:ARG:HD3	2.18	0.43
22:B0:717:C:C4	22:B0:718:A:H1'	2.53	0.43
22:B0:844:A:H1'	22:B0:936:A:C2	2.53	0.43
22:B0:846:U:O2'	22:B0:848:C:OP2	2.36	0.43
22:B0:867:C:C5	22:B0:909:A:C2	3.06	0.43
22:B0:961:C:H4'	22:B0:2498:C:C4	2.51	0.43
22:B0:1937:A:O2'	22:B0:1938:A:P	2.75	0.43
22:B0:2119:A:H2'	22:B0:2121:G:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2342:C:H2'	22:B0:2343:U:O4'	2.18	0.43
22:B0:2829:A:H2'	22:B0:2830:C:C6	2.53	0.43
24:B2:32:LEU:HD13	24:B2:219:ALA:HB3	2.00	0.43
25:B3:94:LEU:HD13	25:B3:94:LEU:C	2.42	0.43
26:BA:138:SER:H	26:BA:163:ILE:HD13	1.83	0.43
27:BB:8:LYS:HA	27:BB:27:ILE:HD12	2.00	0.43
27:BB:151:THR:HG23	27:BB:151:THR:O	2.17	0.43
28:BC:6:LYS:CE	28:BC:119:ILE:HG12	2.46	0.43
28:BC:28:VAL:HG23	28:BC:29:HIS:N	2.31	0.43
31:BF:143:ILE:HD13	31:BF:144:VAL:N	2.33	0.43
36:BK:6:ARG:HG2	36:BK:6:ARG:HH11	1.83	0.43
39:BN:10:GLU:OE2	39:BN:11:GLN:HG2	2.17	0.43
39:BN:88:ARG:N	39:BN:88:ARG:CD	2.78	0.43
41:BQ:56:ALA:O	41:BQ:57:ASN:HB3	2.18	0.43
42:BR:7:LEU:CA	42:BR:46:ALA:HA	2.48	0.43
43:BS:85:ARG:HG2	43:BS:86:PHE:N	2.33	0.43
1:AA:47:C:O4'	1:AA:365:U:N3	2.52	0.43
1:AA:145:G:N2	1:AA:177:G:C2	2.86	0.43
1:AA:189:A:C2'	1:AA:190:A:H4'	2.48	0.43
1:AA:246:A:H1'	1:AA:282:A:H61	1.83	0.43
1:AA:545:C:O2'	1:AA:548:G:C2'	2.58	0.43
1:AA:560:A:HO2'	1:AA:561:U:P	2.32	0.43
1:AA:1094:G:H5''	1:AA:1095:U:H5	1.80	0.43
1:AA:1139:G:C5'	1:AA:1140:C:H5'	2.48	0.43
1:AA:1226:C:O2'	1:AA:1227:A:P	2.76	0.43
1:AA:1310:G:H2'	1:AA:1311:A:H8	1.83	0.43
2:AW:59:U:H2'	2:AW:60:C:H5'	1.99	0.43
4:AC:48:LYS:N	4:AC:48:LYS:HD2	2.33	0.43
9:AH:31:LEU:O	9:AH:31:LEU:HD13	2.18	0.43
10:AI:113:LYS:CA	10:AI:120:ALA:HB2	2.48	0.43
11:AJ:47:GLU:HB3	11:AJ:67:ILE:CG2	2.48	0.43
12:AK:23:HIS:HB3	12:AK:30:ILE:HG23	1.98	0.43
22:B0:121:G:H4'	22:B0:149:A:O4'	2.18	0.43
22:B0:205:G:C2'	22:B0:206:U:OP2	2.66	0.43
22:B0:304:U:H2'	22:B0:305:C:C6	2.53	0.43
22:B0:360:U:H3'	22:B0:362:A:H8	1.83	0.43
22:B0:362:A:O2'	22:B0:363:G:O5'	2.32	0.43
22:B0:787:C:H3'	22:B0:791:C:H42	1.83	0.43
22:B0:1040:A:H2	22:B0:1115:G:H22	1.66	0.43
22:B0:1202:G:O2'	35:BJ:15:ALA:HA	2.18	0.43
22:B0:1340:U:C1'	22:B0:1603:A:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1490:C:O3'	26:BA:161:VAL:HA	2.18	0.43
22:B0:1495:A:N6	26:BA:150:GLY:O	2.51	0.43
22:B0:1497:U:H3	26:BA:102:TYR:CB	2.31	0.43
22:B0:1579:A:C8	26:BA:65:ASP:HB3	2.52	0.43
22:B0:1847:A:C2	22:B0:1893:C:N4	2.87	0.43
22:B0:1939:U:H4'	22:B0:2592:G:C5'	2.46	0.43
22:B0:2039:U:H2'	22:B0:2040:G:H8	1.82	0.43
22:B0:2071:A:O2'	22:B0:2072:C:H5'	2.18	0.43
22:B0:2215:C:H2'	22:B0:2216:G:C8	2.53	0.43
22:B0:2340:A:H4'	23:B9:41:G:C6	2.54	0.43
22:B0:2419:U:H2'	22:B0:2420:C:C6	2.53	0.43
22:B0:2455:G:H2'	22:B0:2456:C:C6	2.53	0.43
22:B0:2552:U:O2	22:B0:2554:U:H5'	2.19	0.43
22:B0:2650:U:H2'	22:B0:2651:C:C6	2.52	0.43
24:B2:7:MET:HA	24:B2:10:ILE:HG22	1.99	0.43
25:B5:19:VAL:O	25:B5:23:ILE:HG23	2.17	0.43
28:BC:87:ALA:O	28:BC:88:ARG:HB2	2.18	0.43
28:BC:134:LEU:HD11	28:BC:158:PHE:CE2	2.53	0.43
29:BD:169:LEU:HD23	29:BD:169:LEU:O	2.18	0.43
30:BE:74:MET:O	30:BE:78:VAL:HG23	2.18	0.43
35:BJ:111:ILE:HG12	35:BJ:111:ILE:O	2.18	0.43
39:BN:30:TRP:O	39:BN:31:VAL:HB	2.18	0.43
40:BO:27:ARG:HA	40:BO:33:VAL:HG23	1.99	0.43
41:BQ:14:ALA:H	41:BQ:17:VAL:CG2	2.31	0.43
41:BQ:24:ILE:N	41:BQ:25:ARG:HE	2.16	0.43
42:BR:14:PRO:O	42:BR:32:LEU:HA	2.18	0.43
1:AA:99:C:C4	1:AA:101:A:N7	2.86	0.43
1:AA:334:C:H2'	1:AA:335:C:C6	2.53	0.43
1:AA:431:A:H2'	1:AA:431:A:N3	2.33	0.43
1:AA:877:G:H5'	9:AH:79:ARG:HH12	1.82	0.43
1:AA:889:A:OP1	1:AA:891:U:H1'	2.19	0.43
1:AA:944:G:C2'	1:AA:1339:A:H61	2.32	0.43
1:AA:975:A:H4'	1:AA:976:G:OP2	2.17	0.43
1:AA:1287:A:OP1	1:AA:1288:A:OP2	2.37	0.43
1:AA:1380:U:H2'	1:AA:1381:U:OP2	2.19	0.43
1:AA:1404:C:H1'	1:AA:1519:A:O2'	2.19	0.43
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.53	0.43
2:AU:55:U:O2	2:AU:57:G:OP2	2.35	0.43
2:AU:74:C:H6	2:AU:74:C:O5'	2.01	0.43
6:AE:33:THR:HB	6:AE:49:TYR:CE1	2.53	0.43
6:AE:45:VAL:HG22	6:AE:117:ALA:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:155:LYS:HB3	9:AH:68:LYS:HZ3	1.80	0.43
8:AG:42:VAL:O	8:AG:46:LEU:HD13	2.18	0.43
9:AH:72:GLU:H	9:AH:72:GLU:CD	2.26	0.43
9:AH:93:LYS:HE2	9:AH:116:ARG:NH2	2.32	0.43
12:AK:16:SER:CA	12:AK:78:ILE:HA	2.48	0.43
15:AN:66:THR:HB	15:AN:82:LYS:HE3	2.00	0.43
20:AS:40:PHE:HB3	20:AS:41:PRO:CD	2.47	0.43
22:B0:172:A:H2'	22:B0:173:A:H8	1.83	0.43
22:B0:241:A:H1'	22:B0:243:U:C4	2.53	0.43
22:B0:395:U:H2'	22:B0:396:G:H8	1.83	0.43
22:B0:588:U:C4	28:BC:45:ALA:HA	2.53	0.43
22:B0:762:U:O2'	22:B0:763:G:O4'	2.35	0.43
22:B0:776:G:N2	22:B0:793:A:N6	2.64	0.43
22:B0:924:G:H2'	22:B0:925:A:H8	1.82	0.43
22:B0:999:U:C5	22:B0:1154:G:O6	2.71	0.43
22:B0:1122:G:O2'	22:B0:1123:C:H5'	2.18	0.43
22:B0:1195:G:O2'	22:B0:1226:A:N3	2.51	0.43
22:B0:1495:A:C3'	26:BA:191:LEU:N	2.78	0.43
22:B0:1571:A:H2'	22:B0:1572:A:C8	2.53	0.43
22:B0:1580:A:H4'	26:BA:70:LYS:N	2.33	0.43
22:B0:1814:G:H1	22:B0:1815:A:N6	2.16	0.43
22:B0:2198:A:O2'	22:B0:2199:A:OP1	2.33	0.43
22:B0:2447:G:O2'	22:B0:2448:A:O5'	2.37	0.43
22:B0:2498:C:C2'	22:B0:2499:C:H5'	2.44	0.43
22:B0:2570:G:O2'	22:B0:2571:U:H5'	2.18	0.43
22:B0:2581:G:H1'	22:B0:2582:G:C5	2.54	0.43
22:B0:2751:G:H5'	22:B0:2752:C:OP2	2.18	0.43
22:B0:2861:U:O2	22:B0:2862:G:N7	2.51	0.43
26:BA:250:GLN:OE1	26:BA:250:GLN:N	2.45	0.43
27:BB:148:GLN:H	27:BB:148:GLN:NE2	2.17	0.43
30:BE:60:GLY:HA2	30:BE:63:GLN:NE2	2.30	0.43
32:BG:129:GLU:HA	32:BG:129:GLU:OE1	2.18	0.43
33:BH:16:TYR:C	33:BH:17:VAL:HG13	2.38	0.43
33:BH:18:VAL:HG13	33:BH:32:LEU:HD21	2.00	0.43
33:BH:58:ASN:HA	33:BH:126:ALA:HA	2.01	0.43
33:BH:69:ARG:C	33:BH:71:ASP:H	2.26	0.43
35:BJ:55:MET:H	35:BJ:56:PRO:CA	2.25	0.43
35:BJ:78:ARG:HB3	35:BJ:78:ARG:CZ	2.49	0.43
39:BN:6:GLN:OE1	39:BN:6:GLN:O	2.36	0.43
39:BN:60:VAL:HG13	39:BN:61:ARG:HE	1.83	0.43
39:BN:79:VAL:HG12	39:BN:82:SER:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:13:HIS:NE2	40:BO:14:LYS:NZ	2.66	0.43
40:BO:51:GLN:O	40:BO:52:ARG:C	2.60	0.43
41:BQ:18:ARG:HB3	41:BQ:76:VAL:HG21	2.00	0.43
49:B1:29:LYS:HA	49:B1:30:PRO:C	2.43	0.43
1:AA:27:G:H2'	1:AA:28:A:C8	2.52	0.43
1:AA:420:U:O4'	5:AD:39:GLN:CG	2.67	0.43
1:AA:688:G:H2'	1:AA:689:C:C6	2.53	0.43
1:AA:1001:C:H1'	1:AA:1041:G:H22	1.80	0.43
1:AA:1341:U:H2'	1:AA:1342:C:C6	2.54	0.43
1:AA:1498:U:H1'	1:AA:1499:A:C8	2.54	0.43
2:AV:58:A:O2'	2:AV:60:C:H5	2.01	0.43
4:AC:13:ILE:HG13	4:AC:14:VAL:N	2.33	0.43
4:AC:116:ALA:HB2	4:AC:184:ASN:CG	2.43	0.43
7:AF:37:HIS:CE1	7:AF:65:GLU:HB2	2.54	0.43
10:AI:116:GLY:O	10:AI:117:LEU:HD23	2.18	0.43
11:AJ:40:ILE:HD11	11:AJ:73:LEU:CD2	2.48	0.43
16:AO:25:GLU:OE2	16:AO:76:ARG:HD3	2.17	0.43
16:AO:86:LEU:HG	16:AO:87:ARG:N	2.34	0.43
22:B0:226:A:C6	22:B0:410:G:H1'	2.54	0.43
22:B0:281:C:H2'	22:B0:282:A:H8	1.83	0.43
22:B0:329:G:O2'	22:B0:477:A:H5'	2.18	0.43
22:B0:413:C:H2'	22:B0:414:C:C6	2.53	0.43
22:B0:495:G:C8	41:BQ:6:LYS:HD3	2.52	0.43
22:B0:588:U:N3	22:B0:589:U:O4	2.51	0.43
22:B0:873:C:H2'	22:B0:874:G:H8	1.83	0.43
22:B0:1436:G:H4'	22:B0:1477:A:H1'	2.00	0.43
22:B0:1444:A:C3'	22:B0:1445:U:C5'	2.95	0.43
22:B0:1491:A:C2	26:BA:173:LEU:N	2.87	0.43
22:B0:1491:A:C4	26:BA:174:ARG:HA	2.53	0.43
22:B0:1649:G:H2'	22:B0:1650:A:H8	1.84	0.43
22:B0:2464:G:O2'	22:B0:2465:C:H5'	2.19	0.43
22:B0:2776:A:H4'	22:B0:2777:G:O5'	2.18	0.43
23:B9:78:A:N6	23:B9:98:G:C2'	2.78	0.43
24:B2:6:ARG:O	24:B2:9:VAL:HG12	2.19	0.43
25:B3:16:VAL:HB	25:B3:53:GLU:O	2.17	0.43
25:B3:16:VAL:C	25:B3:20:VAL:HG23	2.42	0.43
25:B3:65:LYS:HD2	25:B3:88:GLU:HG2	2.00	0.43
26:BA:164:VAL:HB	26:BA:172:THR:O	2.19	0.43
28:BC:142:ALA:C	28:BC:143:LEU:HD22	2.44	0.43
28:BC:181:ILE:HG13	35:BJ:17:LYS:HG3	2.00	0.43
34:BI:43:ILE:HD13	34:BI:53:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BI:48:PRO:HG3	34:BI:54:LYS:CE	2.48	0.43
34:BI:59:LYS:HB2	34:BI:87:LEU:HD11	2.00	0.43
35:BJ:105:ILE:HG13	35:BJ:106:GLU:CD	2.43	0.43
35:BJ:134:ALA:C	35:BJ:136:GLU:N	2.75	0.43
36:BK:7:THR:CG2	36:BK:8:LYS:N	2.72	0.43
37:BL:25:ALA:O	37:BL:28:LEU:HG	2.17	0.43
37:BL:115:LEU:HD12	37:BL:115:LEU:N	2.34	0.43
39:BN:28:LYS:HZ1	39:BN:86:LYS:HB3	1.83	0.43
39:BN:36:LYS:HB2	39:BN:36:LYS:HZ2	1.81	0.43
40:BO:16:ILE:HG12	40:BO:35:PHE:CZ	2.53	0.43
47:BX:35:VAL:HG22	47:BX:36:GLU:N	2.33	0.43
1:AA:181:A:C2'	1:AA:182:A:OP2	2.66	0.43
1:AA:274:A:O2'	1:AA:275:G:C8	2.71	0.43
1:AA:637:C:H2'	1:AA:638:U:C6	2.53	0.43
1:AA:729:A:H2'	1:AA:730:G:C8	2.54	0.43
1:AA:869:G:O2'	1:AA:872:A:N7	2.41	0.43
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.54	0.43
1:AA:1468:A:H3'	1:AA:1469:C:H6	1.84	0.43
2:AU:74:C:H5''	22:B0:2556:C:N3	2.33	0.43
3:AB:22:TRP:HB2	3:AB:188:THR:HB	1.99	0.43
3:AB:89:PHE:N	3:AB:89:PHE:CD1	2.86	0.43
7:AF:9:MET:HA	7:AF:58:HIS:O	2.19	0.43
7:AF:10:VAL:CG2	7:AF:11:HIS:N	2.82	0.43
7:AF:29:ILE:HD11	7:AF:64:VAL:CG2	2.48	0.43
10:AI:66:VAL:HG22	10:AI:67:LYS:N	2.32	0.43
12:AK:22:ILE:HD12	12:AK:95:THR:HG21	2.00	0.43
22:B0:116:C:H2'	22:B0:117:G:O4'	2.19	0.43
22:B0:312:G:H2'	22:B0:313:G:C8	2.53	0.43
22:B0:351:C:H2'	22:B0:352:A:H4'	1.99	0.43
22:B0:494:G:N3	41:BQ:7:HIS:N	2.67	0.43
22:B0:531:C:N4	22:B0:563:G:H5''	2.25	0.43
22:B0:582:A:OP1	40:BO:10:ARG:NH1	2.52	0.43
22:B0:637:A:O2'	22:B0:638:G:H5'	2.18	0.43
22:B0:865:C:O2'	22:B0:866:A:H8	1.96	0.43
22:B0:869:G:H8	22:B0:869:G:O5'	2.00	0.43
22:B0:1019:U:O2	22:B0:1021:A:N1	2.51	0.43
22:B0:1120:G:H2'	22:B0:1121:C:C6	2.53	0.43
22:B0:1266:G:N2	22:B0:2013:A:OP2	2.48	0.43
22:B0:1814:G:C2	22:B0:1815:A:N7	2.87	0.43
22:B0:1869:G:H1'	22:B0:1872:A:H62	1.83	0.43
22:B0:2154:A:O2'	22:B0:2155:U:O4'	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2631:G:N2	22:B0:2787:C:C2	2.86	0.43
22:B0:2678:C:O4'	27:BB:125:TRP:HD1	1.96	0.43
25:B3:19:VAL:O	25:B3:22:LEU:HB3	2.18	0.43
25:B5:106:LEU:O	25:B5:110:LEU:HG	2.18	0.43
26:BA:143:VAL:HG11	26:BA:153:LEU:HD23	2.01	0.43
27:BB:6:GLY:HA3	27:BB:29:VAL:HG12	2.01	0.43
28:BC:112:LEU:HA	28:BC:118:LEU:CD2	2.46	0.43
28:BC:175:ILE:HB	28:BC:180:LEU:HD21	1.99	0.43
29:BD:132:ARG:O	29:BD:135:ILE:HD11	2.19	0.43
30:BE:18:ILE:HD11	30:BE:20:GLY:O	2.18	0.43
32:BG:119:ALA:O	32:BG:123:ALA:HB3	2.19	0.43
33:BH:21:THR:O	33:BH:21:THR:HG23	2.18	0.43
36:BK:69:PRO:HB2	36:BK:92:TRP:CB	2.49	0.43
39:BN:32:VAL:HG22	39:BN:32:VAL:O	2.18	0.43
41:BQ:15:GLN:HA	41:BQ:15:GLN:HE21	1.84	0.43
43:BS:66:VAL:O	43:BS:66:VAL:HG12	2.19	0.43
1:AA:157:U:H2'	1:AA:158:G:H8	1.82	0.43
1:AA:243:A:O2'	1:AA:244:U:P	2.77	0.43
1:AA:562:U:H5'	1:AA:563:A:C5	2.54	0.43
1:AA:1125:U:OP2	1:AA:1145:A:N6	2.52	0.43
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.83	0.43
2:AW:61:C:O5'	2:AW:61:C:H6	2.02	0.43
3:AB:202:ASN:C	3:AB:202:ASN:ND2	2.77	0.43
4:AC:67:ILE:O	4:AC:67:ILE:HG23	2.18	0.43
4:AC:147:GLY:HA3	4:AC:171:ARG:O	2.19	0.43
5:AD:90:LEU:HD11	5:AD:196:GLU:HG3	2.00	0.43
6:AE:19:ARG:HG3	6:AE:19:ARG:HH11	1.82	0.43
6:AE:52:ALA:HB3	6:AE:58:ALA:HB2	2.01	0.43
6:AE:81:GLN:H	6:AE:81:GLN:CD	2.26	0.43
7:AF:78:PHE:O	7:AF:84:VAL:HG11	2.19	0.43
8:AG:29:LEU:C	8:AG:31:VAL:N	2.77	0.43
17:AP:40:ASN:HD21	17:AP:42:ILE:HG22	1.83	0.43
22:B0:121:G:H4'	22:B0:149:A:C4'	2.49	0.43
22:B0:269:C:C2'	22:B0:271:G:OP1	2.66	0.43
22:B0:293:U:N3	22:B0:347:A:C2	2.86	0.43
22:B0:404:A:H1'	22:B0:406:G:C4	2.53	0.43
22:B0:458:G:H2'	22:B0:459:U:OP2	2.19	0.43
22:B0:504:A:H5'	22:B0:512:G:OP2	2.17	0.43
22:B0:557:U:H2'	22:B0:558:G:C8	2.52	0.43
22:B0:638:G:H2'	22:B0:639:U:O4'	2.17	0.43
22:B0:661:A:H5'	35:BJ:28:GLY:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:709:U:H2'	22:B0:710:U:C6	2.53	0.43
22:B0:763:G:N3	22:B0:763:G:H2'	2.33	0.43
22:B0:769:U:H2'	22:B0:770:G:C8	2.53	0.43
22:B0:856:G:H2'	22:B0:857:G:H8	1.83	0.43
22:B0:959:A:O4'	36:BK:80:VAL:HG12	2.19	0.43
22:B0:961:C:OP1	22:B0:2496:C:C4	2.71	0.43
22:B0:994:C:O2	22:B0:1160:G:N2	2.47	0.43
22:B0:1047:G:C2'	22:B0:1110:G:N2	2.82	0.43
22:B0:1493:A:C2	26:BA:183:VAL:O	2.71	0.43
22:B0:1495:A:OP1	26:BA:189:ALA:C	2.61	0.43
22:B0:1578:U:OP2	26:BA:101:ARG:HB3	2.19	0.43
22:B0:1639:C:H2'	22:B0:1640:A:H5'	1.99	0.43
22:B0:1920:C:H2'	22:B0:1921:G:C8	2.53	0.43
22:B0:1992:G:H4'	22:B0:1993:U:OP1	2.18	0.43
22:B0:2213:U:H2'	22:B0:2214:C:C6	2.54	0.43
22:B0:2226:C:C5	22:B0:2227:A:H1'	2.54	0.43
22:B0:2334:U:H5	38:BM:10:ARG:NH1	2.16	0.43
22:B0:2491:U:H2'	22:B0:2492:U:C5'	2.48	0.43
22:B0:2581:G:C2'	22:B0:2582:G:OP2	2.67	0.43
22:B0:2596:U:C2'	22:B0:2597:G:H5'	2.48	0.43
23:B9:78:A:H61	23:B9:98:G:C1'	2.31	0.43
24:B2:7:MET:O	24:B2:11:ARG:N	2.48	0.43
24:B2:141:VAL:O	24:B2:141:VAL:HG12	2.18	0.43
25:B3:17:MET:HB2	25:B3:53:GLU:O	2.19	0.43
25:B5:22:LEU:O	25:B5:25:ALA:C	2.62	0.43
26:BA:263:ASP:OD1	26:BA:264:LYS:HG3	2.19	0.43
27:BB:41:ALA:HB3	27:BB:48:ILE:HG23	1.99	0.43
27:BB:122:VAL:HG21	27:BB:141:ARG:HA	2.00	0.43
27:BB:165:MET:CG	27:BB:166:GLY:N	2.82	0.43
29:BD:79:ARG:HB3	29:BD:79:ARG:HH11	1.81	0.43
29:BD:113:PHE:H	29:BD:113:PHE:HD1	1.67	0.43
33:BH:109:LEU:O	33:BH:115:GLY:HA3	2.19	0.43
33:BH:118:MET:O	33:BH:118:MET:HG2	2.18	0.43
36:BK:6:ARG:O	36:BK:71:LYS:HA	2.18	0.43
36:BK:83:GLY:O	36:BK:84:LYS:C	2.61	0.43
37:BL:22:ARG:NH2	37:BL:69:ARG:HB3	2.34	0.43
37:BL:49:GLU:N	37:BL:50:PRO:C	2.77	0.43
38:BM:106:LEU:HD13	38:BM:106:LEU:O	2.18	0.43
39:BN:2:ASN:HD22	39:BN:4:ILE:CG1	2.32	0.43
40:BO:78:PHE:CD1	40:BO:79:ILE:N	2.87	0.43
42:BR:47:VAL:C	42:BR:49:LYS:N	2.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:31:LYS:HE2	48:BZ:47:TYR:HB3	2.00	0.43
1:AA:310:G:H1'	1:AA:607:A:H61	1.84	0.43
1:AA:409:U:O4	1:AA:429:U:H4'	2.19	0.43
1:AA:482:A:N3	1:AA:482:A:H2'	2.34	0.43
1:AA:738:C:H2'	1:AA:739:C:C6	2.53	0.43
1:AA:886:G:H4'	1:AA:915:A:H1'	2.00	0.43
1:AA:892:A:H2'	1:AA:893:C:H6	1.83	0.43
1:AA:1075:U:H4'	1:AA:1101:A:N6	2.33	0.43
2:AW:55:U:O2	2:AW:55:U:H3'	2.19	0.43
3:AB:62:ARG:HG2	3:AB:62:ARG:O	2.18	0.43
4:AC:72:PRO:O	4:AC:76:ILE:HG13	2.17	0.43
5:AD:2:ARG:HG2	5:AD:2:ARG:HH11	1.84	0.43
5:AD:12:ARG:HD3	5:AD:29:THR:CG2	2.49	0.43
6:AE:63:MET:O	6:AE:67:ARG:HG3	2.19	0.43
9:AH:61:THR:HG23	9:AH:61:THR:O	2.18	0.43
10:AI:64:ILE:HG22	10:AI:65:THR:N	2.34	0.43
11:AJ:41:PRO:O	11:AJ:42:LEU:HB2	2.18	0.43
12:AK:33:ILE:HB	12:AK:73:VAL:HG21	2.00	0.43
22:B0:276:U:O2'	22:B0:278:A:P	2.76	0.43
22:B0:276:U:H2'	22:B0:362:A:N3	2.33	0.43
22:B0:503:A:H2'	22:B0:505:A:O4'	2.19	0.43
22:B0:678:C:H2'	22:B0:679:C:H6	1.83	0.43
22:B0:876:C:H2'	22:B0:877:A:H8	1.83	0.43
22:B0:958:U:O5'	36:BK:80:VAL:CG2	2.66	0.43
22:B0:970:U:H1'	22:B0:984:A:N3	2.33	0.43
22:B0:1243:C:O5'	22:B0:1243:C:H6	2.01	0.43
22:B0:1250:G:H4'	40:BO:8:ILE:CD1	2.36	0.43
22:B0:1325:U:H1'	41:BQ:87:PRO:HD2	2.00	0.43
22:B0:1346:G:N2	22:B0:1600:C:O2	2.51	0.43
22:B0:1421:G:H22	26:BA:144:GLU:CD	2.26	0.43
22:B0:1425:G:N2	22:B0:1574:C:N4	2.66	0.43
22:B0:1427:A:N6	26:BA:58:LYS:CE	2.80	0.43
22:B0:1764:C:H2'	22:B0:1765:U:C6	2.53	0.43
22:B0:2296:U:O2'	22:B0:2297:A:O4'	2.35	0.43
22:B0:2899:A:N1	33:BH:136:GLN:CA	2.79	0.43
23:B9:66:A:H2'	23:B9:67:G:OP2	2.17	0.43
24:B2:77:PHE:CZ	24:B2:103:ILE:HD11	2.52	0.43
25:B3:16:VAL:O	25:B3:20:VAL:N	2.50	0.43
26:BA:53:ILE:HD13	26:BA:53:ILE:C	2.44	0.43
26:BA:63:ILE:C	26:BA:64:VAL:CG2	2.92	0.43
26:BA:98:GLY:O	26:BA:99:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:128:THR:O	26:BA:129:LEU:HD13	2.18	0.43
26:BA:159:THR:O	26:BA:160:TYR:HB3	2.18	0.43
27:BB:36:GLN:HA	27:BB:53:GLY:O	2.19	0.43
28:BC:4:VAL:HG23	28:BC:13:THR:HA	2.01	0.43
28:BC:45:ALA:HB3	28:BC:89:PRO:CB	2.48	0.43
28:BC:61:ARG:C	28:BC:62:GLN:HG3	2.44	0.43
29:BD:52:ALA:O	29:BD:53:ALA:HB3	2.17	0.43
29:BD:107:VAL:HG23	29:BD:107:VAL:O	2.19	0.43
31:BF:46:PHE:HE1	31:BF:50:ARG:HH21	1.67	0.43
33:BH:93:ILE:CD1	33:BH:96:ARG:HE	2.28	0.43
36:BK:62:LYS:N	36:BK:62:LYS:HD2	2.33	0.43
39:BN:28:LYS:CE	39:BN:86:LYS:HB3	2.49	0.43
39:BN:53:GLY:C	39:BN:54:LEU:HD22	2.44	0.43
40:BO:32:ARG:NE	40:BO:32:ARG:CA	2.79	0.43
42:BR:33:LYS:HA	42:BR:82:LYS:CB	2.33	0.43
42:BR:39:THR:HG23	42:BR:40:LYS:H	1.82	0.43
42:BR:56:GLU:HB3	42:BR:86:THR:C	2.44	0.43
43:BS:17:ASP:OD2	43:BS:38:ILE:HG23	2.18	0.43
43:BS:25:LYS:NZ	43:BS:36:GLU:HG2	2.34	0.43
43:BS:43:LYS:O	43:BS:45:GLN:N	2.49	0.43
45:BU:45:HIS:CG	45:BU:56:HIS:HB2	2.53	0.43
1:AA:34:C:H5'	1:AA:363:A:O2'	2.19	0.43
1:AA:47:C:O5'	1:AA:48:C:OP1	2.36	0.43
1:AA:630:A:H2'	1:AA:631:C:H5'	2.01	0.43
1:AA:657:U:H2'	1:AA:658:C:H6	1.84	0.43
1:AA:682:G:O2'	1:AA:683:G:H5'	2.18	0.43
1:AA:1062:U:N3	1:AA:1063:C:N4	2.67	0.43
1:AA:1237:C:O2'	1:AA:1334:G:H1'	2.19	0.43
1:AA:1474:U:H2'	1:AA:1475:G:C8	2.54	0.43
2:AV:21:A:HO2'	2:AV:22:G:H8	1.58	0.43
3:AB:206:ILE:HG23	3:AB:207:ARG:N	2.33	0.43
4:AC:117:ASP:HA	4:AC:120:THR:HG22	2.00	0.43
8:AG:112:ASP:OD2	8:AG:118:ARG:HG2	2.18	0.43
9:AH:2:MET:N	9:AH:2:MET:SD	2.91	0.43
10:AI:8:THR:HG22	10:AI:9:GLY:N	2.34	0.43
16:AO:34:GLN:HE21	16:AO:58:MET:HE3	1.84	0.43
17:AP:2:VAL:HG13	17:AP:2:VAL:O	2.18	0.43
22:B0:49:A:H4'	22:B0:51:G:O4'	2.19	0.43
22:B0:416:U:O4	22:B0:2407:A:H2	2.01	0.43
22:B0:477:A:H2'	22:B0:478:A:C8	2.54	0.43
22:B0:704:G:H2'	22:B0:726:G:H21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:729:G:H4'	22:B0:763:G:H5'	2.01	0.43
22:B0:752:A:N6	22:B0:1781:U:O2'	2.52	0.43
22:B0:776:G:O2'	22:B0:777:G:P	2.77	0.43
22:B0:799:G:OP2	28:BC:57:LYS:CG	2.55	0.43
22:B0:958:U:OP1	36:BK:83:GLY:N	2.51	0.43
22:B0:1047:G:C2'	22:B0:1110:G:H22	2.24	0.43
22:B0:1141:U:O2'	22:B0:1142:A:P	2.77	0.43
22:B0:1329:U:H5''	22:B0:1330:C:OP2	2.19	0.43
22:B0:1397:U:O2'	22:B0:1398:C:P	2.76	0.43
22:B0:1494:A:C4	22:B0:1494:A:H3'	2.53	0.43
22:B0:1542:C:C2'	22:B0:1543:G:H5'	2.39	0.43
22:B0:1629:U:H2'	22:B0:1630:A:H8	1.83	0.43
22:B0:1677:A:H2'	22:B0:1678:A:O4'	2.19	0.43
22:B0:1709:U:H2'	22:B0:1710:G:C8	2.54	0.43
22:B0:2136:G:O6	22:B0:2137:U:C4	2.72	0.43
22:B0:2456:C:H42	22:B0:2495:G:H1	1.66	0.43
22:B0:2494:G:H2'	22:B0:2495:G:C4'	2.49	0.43
22:B0:2498:C:H2'	22:B0:2499:C:C5'	2.45	0.43
22:B0:2676:C:H2'	22:B0:2677:G:H8	1.84	0.43
24:B2:20:TYR:HD1	24:B2:20:TYR:H	1.65	0.43
25:B5:46:GLU:HB3	25:B5:50:GLU:CG	2.48	0.43
28:BC:58:LYS:HA	28:BC:59:PRO:HD3	1.87	0.43
30:BE:89:VAL:O	30:BE:164:ALA:HA	2.19	0.43
31:BF:143:ILE:HG23	31:BF:143:ILE:O	2.19	0.43
33:BH:5:THR:HB	33:BH:6:ALA:H	1.67	0.43
33:BH:72:LYS:HA	33:BH:72:LYS:HZ1	1.82	0.43
37:BL:52:ILE:C	37:BL:53:THR:O	2.61	0.43
38:BM:70:ALA:O	38:BM:74:VAL:HG23	2.19	0.43
38:BM:94:ARG:HG2	38:BM:94:ARG:HH11	1.83	0.43
41:BQ:13:SER:O	41:BQ:14:ALA:HB3	2.19	0.43
42:BR:36:LYS:HD2	42:BR:80:TRP:HB3	2.01	0.43
43:BS:84:PHE:CG	43:BS:101:THR:HG21	2.54	0.43
45:BU:70:VAL:CG2	45:BU:71:LYS:H	2.28	0.43
48:BZ:41:HIS:HB2	48:BZ:46:GLY:HA2	2.00	0.43
1:AA:692:U:H5'	1:AA:797:C:C5'	2.48	0.43
1:AA:1281:C:H2'	1:AA:1282:C:OP1	2.19	0.43
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.54	0.43
1:AA:1396:A:O2'	1:AA:1398:A:H1'	2.18	0.43
1:AA:1474:U:H2'	1:AA:1475:G:H8	1.84	0.43
1:AA:1528:U:O2'	1:AA:1529:G:H3'	2.19	0.43
2:AU:6:U:O2'	2:AU:7:U:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AU:32:C:H2'	2:AU:33:U:C6	2.54	0.43
2:AU:37:G:H2'	2:AU:38:A:C8	2.54	0.43
3:AB:27:LYS:C	3:AB:29:PHE:H	2.27	0.43
4:AC:57:GLU:OE1	4:AC:64:ARG:HD2	2.18	0.43
4:AC:184:ASN:HD21	4:AC:199:VAL:CB	2.06	0.43
5:AD:195:ASN:CG	5:AD:198:LEU:HG	2.44	0.43
7:AF:9:MET:HB2	7:AF:85:ILE:CG2	2.49	0.43
7:AF:38:ARG:HB3	7:AF:63:ASN:HD21	1.84	0.43
9:AH:26:MET:HE1	9:AH:32:LYS:NZ	2.34	0.43
10:AI:80:HIS:O	10:AI:84:ARG:HG2	2.17	0.43
10:AI:103:VAL:O	10:AI:103:VAL:HG12	2.19	0.43
11:AJ:18:ILE:CD1	11:AJ:70:HIS:HB2	2.49	0.43
11:AJ:28:THR:HG1	11:AJ:86:ALA:HB1	1.84	0.43
15:AN:40:ARG:HA	20:AS:13:HIS:CA	2.48	0.43
15:AN:44:VAL:O	15:AN:44:VAL:HG12	2.19	0.43
17:AP:18:GLN:HG2	17:AP:20:VAL:CG2	2.49	0.43
20:AS:62:THR:HG22	20:AS:63:ASP:N	2.34	0.43
20:AS:83:ALA:C	20:AS:85:ASP:N	2.76	0.43
22:B0:24:G:H2'	22:B0:25:U:H6	1.84	0.43
22:B0:311:A:C6	22:B0:330:A:OP2	2.72	0.43
22:B0:376:G:H2'	22:B0:377:G:H8	1.84	0.43
22:B0:387:U:HO2'	22:B0:388:G:P	2.41	0.43
22:B0:667:U:H5	35:BJ:48:ARG:HH12	1.67	0.43
22:B0:903:C:H2'	22:B0:904:G:H8	1.82	0.43
22:B0:912:C:H2'	22:B0:913:U:H6	1.79	0.43
22:B0:1022:G:H4'	22:B0:1023:U:O5'	2.19	0.43
22:B0:1289:C:H2'	22:B0:1290:C:C6	2.54	0.43
22:B0:1605:C:H4'	22:B0:1610:A:N6	2.34	0.43
22:B0:1615:C:O2'	22:B0:1616:A:OP1	2.31	0.43
22:B0:1966:A:H2'	22:B0:1966:A:N3	2.33	0.43
22:B0:2121:G:H1'	22:B0:2122:U:C4	2.54	0.43
22:B0:2249:U:C1'	22:B0:2275:C:N4	2.75	0.43
22:B0:2391:G:O2'	22:B0:2429:G:N2	2.52	0.43
22:B0:2899:A:C2	33:BH:136:GLN:HA	2.54	0.43
23:B9:95:U:H2'	23:B9:96:G:H8	1.84	0.43
25:B3:50:GLU:HB3	25:B5:15:SER:HA	1.99	0.43
28:BC:90:GLN:HB2	35:BJ:28:GLY:O	2.19	0.43
28:BC:153:LEU:HA	28:BC:189:THR:HG23	2.01	0.43
30:BE:127:GLN:NE2	30:BE:129:GLU:HB2	2.33	0.43
34:BI:9:ASN:O	34:BI:83:ALA:HA	2.19	0.43
38:BM:18:LEU:HD12	38:BM:18:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BM:31:THR:CG2	38:BM:32:PRO:HD2	2.49	0.43
38:BM:53:THR:OG1	38:BM:65:THR:HB	2.19	0.43
48:BZ:47:TYR:C	48:BZ:48:TYR:CG	2.97	0.43
1:AA:153:C:N4	1:AA:168:G:H1	2.16	0.43
1:AA:337:G:H2'	1:AA:338:A:H8	1.82	0.43
1:AA:815:A:H4'	1:AA:817:C:C4	2.53	0.43
1:AA:1502:A:H2'	1:AA:1502:A:N3	2.34	0.43
4:AC:45:GLU:C	4:AC:46:LEU:HD22	2.44	0.43
4:AC:68:HIS:ND1	4:AC:103:ALA:HB3	2.33	0.43
4:AC:126:ARG:HB3	4:AC:126:ARG:CZ	2.49	0.43
7:AF:6:ILE:CD1	7:AF:89:VAL:HG12	2.48	0.43
14:AM:92:ARG:O	14:AM:92:ARG:HD3	2.19	0.43
15:AN:72:PHE:CE2	15:AN:74:ARG:HG2	2.54	0.43
16:AO:10:ILE:HA	16:AO:13:GLU:OE2	2.19	0.43
16:AO:35:ILE:O	16:AO:39:GLN:HG3	2.18	0.43
17:AP:4:ILE:CG1	17:AP:21:VAL:HG22	2.43	0.43
18:AQ:45:VAL:HG11	18:AQ:60:ILE:CG1	2.49	0.43
19:AR:47:ARG:HG3	19:AR:49:LYS:H	1.84	0.43
20:AS:15:LEU:O	20:AS:19:GLU:HG2	2.19	0.43
22:B0:828:U:O2	22:B0:828:U:C2'	2.55	0.43
22:B0:1270:C:O5'	22:B0:1270:C:H6	2.02	0.43
22:B0:1497:U:C6	26:BA:63:ILE:HD11	2.54	0.43
22:B0:1614:A:H61	41:BQ:92:ARG:HD2	1.83	0.43
22:B0:1784:A:H5''	22:B0:1785:A:OP1	2.19	0.43
22:B0:1939:U:O4	22:B0:1974:C:OP1	2.37	0.43
22:B0:2119:A:H2'	22:B0:2119:A:N3	2.33	0.43
22:B0:2127:G:H3'	22:B0:2166:U:C4'	2.48	0.43
22:B0:2328:A:O4'	45:BU:10:ARG:NE	2.52	0.43
22:B0:2676:C:O5'	27:BB:127:PHE:HE1	2.02	0.43
22:B0:2676:C:H3'	27:BB:127:PHE:CD1	2.54	0.43
24:B2:74:VAL:HG22	24:B2:112:VAL:CG1	2.49	0.43
25:B3:17:MET:HE3	25:B3:53:GLU:OE1	2.19	0.43
25:B3:50:GLU:H	25:B3:51:LYS:N	2.17	0.43
25:B5:46:GLU:HB3	25:B5:50:GLU:OE2	2.18	0.43
28:BC:90:GLN:HB3	28:BC:91:ASP:H	1.72	0.43
28:BC:159:LEU:HA	28:BC:162:ARG:CD	2.49	0.43
29:BD:71:LYS:HE2	29:BD:71:LYS:CA	2.48	0.43
33:BH:31:GLU:C	33:BH:33:ALA:N	2.72	0.43
33:BH:68:LYS:HD3	33:BH:71:ASP:OD2	2.18	0.43
34:BI:19:VAL:CG1	34:BI:41:ILE:HG13	2.48	0.43
35:BJ:21:ARG:CD	35:BJ:22:GLY:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BJ:135:ILE:HD13	35:BJ:135:ILE:N	2.34	0.43
37:BL:44:LEU:C	37:BL:46:ARG:N	2.76	0.43
40:BO:48:ASP:HA	40:BO:50:ARG:CZ	2.48	0.43
40:BO:91:ARG:HG2	40:BO:91:ARG:NH1	2.34	0.43
42:BR:82:LYS:C	42:BR:82:LYS:HD3	2.44	0.43
43:BS:10:VAL:O	43:BS:11:ILE:HD13	2.18	0.43
45:BU:58:LEU:HA	45:BU:80:SER:C	2.44	0.43
1:AA:189:A:H2'	1:AA:190:A:H4'	2.00	0.42
1:AA:363:A:OP1	13:AL:80:LEU:HD13	2.19	0.42
1:AA:404:G:H8	1:AA:546:A:O2'	2.02	0.42
1:AA:1021:A:H2'	1:AA:1022:A:C8	2.54	0.42
1:AA:1064:G:H4'	1:AA:1065:U:C5'	2.49	0.42
1:AA:1159:U:O2'	1:AA:1160:G:C8	2.71	0.42
1:AA:1349:A:H1'	1:AA:1374:A:C6	2.54	0.42
1:AA:1351:U:H3	1:AA:1371:G:H1	1.66	0.42
1:AA:1405:G:H2'	1:AA:1406:U:C6	2.54	0.42
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.35	0.42
2:AV:21:A:O2'	2:AV:22:G:H8	2.01	0.42
3:AB:206:ILE:O	3:AB:210:THR:HG23	2.18	0.42
5:AD:201:GLU:O	5:AD:204:SER:HB3	2.19	0.42
15:AN:44:VAL:HG12	15:AN:47:LEU:HG	2.00	0.42
15:AN:66:THR:HB	15:AN:82:LYS:HE2	2.00	0.42
17:AP:53:ASP:OD1	17:AP:56:ARG:HB2	2.19	0.42
22:B0:42:A:H2'	22:B0:44:A:O4'	2.19	0.42
22:B0:300:A:C6	22:B0:336:C:OP2	2.72	0.42
22:B0:460:A:H5''	42:BR:72:GLN:CB	2.49	0.42
22:B0:631:A:H2'	22:B0:632:A:O4'	2.18	0.42
22:B0:660:C:O2	28:BC:96:VAL:C	2.62	0.42
22:B0:720:U:H2'	22:B0:721:A:H8	1.83	0.42
22:B0:809:G:H4'	22:B0:1254:A:O4'	2.19	0.42
22:B0:868:U:C4	22:B0:909:A:C2	3.06	0.42
22:B0:956:G:OP2	36:BK:84:LYS:HG2	2.19	0.42
22:B0:1167:C:H2'	22:B0:1168:G:H8	1.83	0.42
22:B0:1415:G:H5'	22:B0:1416:G:OP1	2.19	0.42
22:B0:1419:A:H3'	22:B0:1420:U:C6	2.54	0.42
22:B0:1581:A:N7	22:B0:1582:C:C4	2.87	0.42
22:B0:1775:U:O4	22:B0:1789:A:H2	2.02	0.42
22:B0:2286:G:N7	49:B1:26:LYS:NZ	2.66	0.42
22:B0:2294:G:H2'	22:B0:2295:C:O4'	2.19	0.42
22:B0:2340:A:H2'	22:B0:2341:G:C8	2.54	0.42
22:B0:2408:U:H2'	22:B0:2409:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2678:C:N4	22:B0:2729:G:N2	2.52	0.42
22:B0:2895:C:O2'	33:BH:41:LYS:HG2	2.19	0.42
25:B3:3:THR:O	25:B3:7:ILE:HG13	2.19	0.42
25:B3:68:VAL:O	25:B3:72:VAL:HG23	2.19	0.42
25:B5:73:ARG:CB	25:B5:73:ARG:HH11	2.32	0.42
26:BA:81:GLU:HB2	26:BA:90:ILE:CD1	2.47	0.42
26:BA:136:VAL:HA	26:BA:163:ILE:HB	2.01	0.42
26:BA:141:HIS:NE2	26:BA:190:THR:HG22	2.35	0.42
27:BB:134:HIS:CE1	34:BI:30:ARG:HB2	2.54	0.42
28:BC:177:PRO:C	35:BJ:17:LYS:HB2	2.44	0.42
29:BD:13:LYS:HD2	29:BD:13:LYS:N	2.34	0.42
31:BF:80:ILE:CD1	31:BF:102:ALA:HB1	2.49	0.42
33:BH:14:ASP:O	33:BH:15:TRP:CB	2.67	0.42
34:BI:43:ILE:HD11	34:BI:53:LYS:O	2.19	0.42
36:BK:34:LYS:HB3	36:BK:34:LYS:HZ2	1.83	0.42
37:BL:80:PHE:C	37:BL:82:GLU:N	2.69	0.42
38:BM:16:ARG:HH21	45:BU:75:ASN:HB2	1.83	0.42
39:BN:13:LYS:O	39:BN:15:ASP:N	2.52	0.42
39:BN:25:VAL:HG22	39:BN:88:ARG:NE	2.34	0.42
39:BN:61:ARG:HH11	39:BN:61:ARG:HG3	1.83	0.42
41:BQ:19:LEU:HD23	41:BQ:19:LEU:C	2.44	0.42
42:BR:66:LYS:O	42:BR:77:ARG:HD2	2.19	0.42
43:BS:43:LYS:C	43:BS:45:GLN:N	2.75	0.42
49:B1:5:ARG:HB3	49:B1:7:LYS:NZ	2.32	0.42
1:AA:50:A:N6	1:AA:361:G:C4'	2.81	0.42
1:AA:64:G:H4'	1:AA:65:A:H5''	2.01	0.42
1:AA:258:G:H1	1:AA:268:U:H3	1.67	0.42
1:AA:566:G:H4'	1:AA:567:G:C5'	2.38	0.42
1:AA:613:C:H2'	1:AA:614:C:C6	2.54	0.42
1:AA:665:A:H2'	1:AA:732:C:O2	2.18	0.42
1:AA:812:G:C2'	1:AA:813:U:OP2	2.67	0.42
1:AA:838:G:H2'	1:AA:839:U:H5''	2.01	0.42
1:AA:960:U:HO2'	1:AA:961:U:P	2.38	0.42
1:AA:1009:U:H5''	15:AN:64:ARG:HH12	1.83	0.42
1:AA:1159:U:O4'	1:AA:1182:G:N2	2.52	0.42
1:AA:1212:U:O2'	1:AA:1213:A:O4'	2.36	0.42
1:AA:1221:G:P	20:AS:2:ARG:HG3	2.59	0.42
2:AV:20:G:H2'	2:AV:20:G:N3	2.34	0.42
2:AV:29:A:H2'	2:AV:30:G:C8	2.55	0.42
2:AV:38:A:C4	2:AV:39:U:O2	2.73	0.42
2:AW:56:C:N4	22:B0:2122:U:N3	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:195:VAL:HB	3:AB:198:VAL:HB	2.00	0.42
4:AC:87:ARG:HH21	4:AC:100:ILE:CG2	2.30	0.42
5:AD:165:GLU:C	5:AD:166:LYS:HD3	2.44	0.42
7:AF:22:ILE:O	7:AF:25:TYR:HB3	2.19	0.42
8:AG:37:THR:HA	8:AG:40:SER:OG	2.19	0.42
10:AI:9:GLY:HA2	10:AI:80:HIS:CD2	2.53	0.42
10:AI:27:ILE:HA	10:AI:62:LEU:O	2.19	0.42
11:AJ:59:LYS:O	11:AJ:62:ARG:NH1	2.53	0.42
19:AR:60:ARG:O	19:AR:64:LEU:HG	2.19	0.42
22:B0:57:C:P	42:BR:76:ARG:HD3	2.59	0.42
22:B0:279:A:C6	22:B0:363:G:OP1	2.72	0.42
22:B0:292:U:O5'	22:B0:292:U:C6	2.72	0.42
22:B0:400:G:C2'	22:B0:401:A:H5''	2.50	0.42
22:B0:508:A:O2'	22:B0:509:C:OP2	2.37	0.42
22:B0:617:G:H8	28:BC:173:THR:HG22	1.84	0.42
22:B0:675:A:H62	28:BC:61:ARG:NH2	2.16	0.42
22:B0:721:A:H2'	22:B0:722:A:C8	2.53	0.42
22:B0:1267:U:H2'	22:B0:1268:A:H8	1.84	0.42
22:B0:1456:G:H2'	22:B0:1457:G:O4'	2.19	0.42
22:B0:1458:C:H2'	22:B0:1459:U:C5'	2.49	0.42
22:B0:1491:A:C2	26:BA:174:ARG:N	2.87	0.42
22:B0:1493:A:C2	26:BA:131:MET:SD	3.12	0.42
22:B0:1497:U:N3	26:BA:90:ILE:HB	2.34	0.42
22:B0:1578:U:H4'	26:BA:64:VAL:CA	2.48	0.42
22:B0:1707:G:H2'	22:B0:1708:C:O4'	2.18	0.42
22:B0:2012:G:O5'	41:BQ:86:MET:HE3	2.20	0.42
22:B0:2116:G:O3'	22:B0:2117:A:O4'	2.36	0.42
22:B0:2179:C:H5''	22:B0:2181:U:P	2.58	0.42
22:B0:2227:A:C3'	22:B0:2228:G:H5'	2.49	0.42
22:B0:2229:U:H2'	22:B0:2230:G:C8	2.53	0.42
22:B0:2293:G:H2'	22:B0:2294:G:C8	2.54	0.42
22:B0:2344:U:H4'	22:B0:2373:G:O2'	2.18	0.42
22:B0:2357:G:C5'	22:B0:2358:A:OP1	2.62	0.42
22:B0:2443:C:H2'	22:B0:2444:G:C8	2.52	0.42
22:B0:2454:G:N1	22:B0:2499:C:N4	2.67	0.42
22:B0:2501:C:H5''	22:B0:2503:A:C5'	2.29	0.42
22:B0:2606:C:H2'	22:B0:2607:G:H8	1.83	0.42
23:B9:108:A:O3'	23:B9:109:A:H4'	2.19	0.42
25:B3:96:GLU:HB3	25:B5:8:ILE:CA	2.48	0.42
25:B3:99:SER:H	25:B3:102:ASP:HB2	1.84	0.42
27:BB:171:THR:O	27:BB:171:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:166:LYS:HE2	35:BJ:10:GLU:N	2.34	0.42
28:BC:181:ILE:O	35:BJ:17:LYS:HG2	2.19	0.42
29:BD:90:LEU:HD22	29:BD:90:LEU:O	2.20	0.42
30:BE:148:ARG:NH2	30:BE:167:VAL:HG13	2.34	0.42
32:BG:89:SER:N	32:BG:135:MET:HE1	2.34	0.42
33:BH:37:ARG:H	33:BH:37:ARG:CD	2.27	0.42
35:BJ:74:THR:HA	35:BJ:107:PHE:HB2	2.00	0.42
39:BN:40:GLN:OE1	39:BN:40:GLN:N	2.51	0.42
45:BU:20:LEU:HD23	45:BU:20:LEU:N	2.25	0.42
45:BU:57:THR:OG1	45:BU:58:LEU:N	2.53	0.42
1:AA:115:G:C2'	1:AA:116:A:OP2	2.66	0.42
1:AA:496:A:H5'	1:AA:497:G:OP1	2.18	0.42
1:AA:1084:G:H1'	1:AA:1102:A:N7	2.34	0.42
1:AA:1166:G:N2	1:AA:1168:U:H3'	2.34	0.42
1:AA:1304:G:H1'	1:AA:1333:A:H61	1.83	0.42
1:AA:1349:A:H61	1:AA:1373:G:H1'	1.83	0.42
1:AA:1501:C:H2'	1:AA:1504:G:C6	2.54	0.42
2:AV:40:C:H2'	2:AV:41:U:C6	2.53	0.42
4:AC:148:ILE:HG12	4:AC:201:ILE:HD13	2.01	0.42
6:AE:36:THR:HG21	6:AE:63:MET:HA	2.00	0.42
7:AF:64:VAL:HG22	7:AF:65:GLU:N	2.32	0.42
9:AH:105:THR:HG22	9:AH:121:GLY:C	2.45	0.42
16:AO:66:LEU:HD11	16:AO:86:LEU:HD23	2.02	0.42
20:AS:80:ARG:HG2	20:AS:80:ARG:HH11	1.84	0.42
21:AT:85:LEU:HD12	21:AT:85:LEU:H	1.82	0.42
22:B0:273:G:H2'	22:B0:274:C:O4'	2.20	0.42
22:B0:274:C:H2'	22:B0:275:C:O4'	2.19	0.42
22:B0:292:U:C2	22:B0:348:A:N1	2.87	0.42
22:B0:317:G:O2'	22:B0:318:C:H5'	2.19	0.42
22:B0:446:G:H4'	22:B0:449:A:H1'	2.02	0.42
22:B0:474:G:O2'	22:B0:475:C:OP1	2.30	0.42
22:B0:574:A:H5''	22:B0:575:A:H5''	2.02	0.42
22:B0:589:U:H3'	28:BC:47:LYS:HB2	2.02	0.42
22:B0:663:G:OP2	28:BC:88:ARG:CD	2.67	0.42
22:B0:693:A:O2'	22:B0:694:U:H5'	2.20	0.42
22:B0:800:A:C5'	22:B0:801:G:OP1	2.62	0.42
22:B0:816:C:H2'	22:B0:817:C:C6	2.54	0.42
22:B0:959:A:O4'	36:BK:80:VAL:CB	2.68	0.42
22:B0:1141:U:H4'	22:B0:1142:A:H5'	1.99	0.42
22:B0:1300:G:HO2'	22:B0:1301:A:P	2.41	0.42
22:B0:1441:G:H2'	22:B0:1442:U:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1500:A:N6	26:BA:155:ARG:C	2.76	0.42
22:B0:1606:C:H5''	22:B0:1607:C:H5'	2.01	0.42
22:B0:1802:A:P	22:B0:1802:A:H8	2.42	0.42
22:B0:1825:U:H2'	22:B0:1826:G:C8	2.54	0.42
22:B0:1832:C:H3'	22:B0:1833:C:C5'	2.34	0.42
22:B0:1943:U:H4'	22:B0:1945:G:OP2	2.19	0.42
22:B0:2043:C:H5	22:B0:2777:G:O4'	2.02	0.42
22:B0:2063:C:O4'	22:B0:2585:U:H1'	2.18	0.42
22:B0:2214:C:H2'	22:B0:2215:C:O4'	2.19	0.42
22:B0:2228:G:C2'	22:B0:2229:U:H5'	2.49	0.42
22:B0:2282:G:H2'	22:B0:2283:C:OP2	2.19	0.42
22:B0:2595:G:N3	22:B0:2597:G:C8	2.87	0.42
22:B0:2825:G:O2'	22:B0:2826:A:H5'	2.19	0.42
23:B9:111:U:H2'	23:B9:112:G:C8	2.54	0.42
24:B2:150:GLU:HA	24:B2:153:LYS:HE2	2.01	0.42
26:BA:77:VAL:HG12	26:BA:78:GLU:N	2.33	0.42
26:BA:104:LEU:CD1	26:BA:126:GLY:HA2	2.49	0.42
26:BA:163:ILE:HG13	26:BA:173:LEU:CD2	2.44	0.42
28:BC:91:ASP:O	35:BJ:26:GLY:O	2.37	0.42
28:BC:178:VAL:HG22	28:BC:179:SER:N	2.34	0.42
32:BG:66:PHE:CD1	32:BG:66:PHE:N	2.86	0.42
33:BH:3:THR:HG23	33:BH:3:THR:O	2.19	0.42
35:BJ:8:PRO:C	35:BJ:10:GLU:N	2.77	0.42
35:BJ:33:ARG:CD	35:BJ:33:ARG:H	2.32	0.42
35:BJ:111:ILE:N	35:BJ:111:ILE:CD1	2.79	0.42
37:BL:42:LYS:NZ	37:BL:43:GLU:HB3	2.33	0.42
39:BN:88:ARG:NH1	39:BN:89:GLY:O	2.52	0.42
39:BN:113:LEU:HD13	39:BN:114:ASN:OXT	2.18	0.42
40:BO:24:TYR:HD2	40:BO:27:ARG:HB2	1.85	0.42
40:BO:26:ALA:O	40:BO:28:SER:N	2.53	0.42
43:BS:28:LEU:C	43:BS:30:SER:N	2.77	0.42
44:BT:82:TYR:CE1	44:BT:83:LYS:HG2	2.54	0.42
46:BW:35:GLY:C	46:BW:36:GLN:CD	2.87	0.42
49:B1:24:LYS:HE3	49:B1:24:LYS:O	2.19	0.42
49:B1:35:LEU:HD22	49:B1:35:LEU:N	2.34	0.42
1:AA:225:C:H2'	1:AA:226:G:C8	2.55	0.42
1:AA:549:C:O5'	1:AA:549:C:H6	2.02	0.42
1:AA:722:G:O6	1:AA:733:G:N2	2.50	0.42
1:AA:824:G:H2'	1:AA:825:A:C8	2.54	0.42
1:AA:853:C:H2'	1:AA:854:U:H6	1.84	0.42
1:AA:892:A:H4'	1:AA:1415:G:C4'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1017:U:H2'	1:AA:1018:G:C8	2.54	0.42
1:AA:1157:A:H5'	1:AA:1158:C:C5	2.54	0.42
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.54	0.42
1:AA:1271:A:O5'	1:AA:1314:C:H4'	2.18	0.42
1:AA:1294:G:O2'	1:AA:1295:U:H5'	2.19	0.42
1:AA:1408:A:H2'	1:AA:1409:C:H6	1.85	0.42
1:AA:1425:U:H2'	1:AA:1426:G:H8	1.85	0.42
1:AA:1463:U:H2'	1:AA:1464:U:C6	2.54	0.42
1:AA:1499:A:O2'	1:AA:1520:C:H5''	2.19	0.42
2:AU:55:U:O2	2:AU:55:U:H3'	2.18	0.42
3:AB:234:GLU:HA	3:AB:237:VAL:HG23	2.01	0.42
4:AC:35:ASP:O	4:AC:38:VAL:HG22	2.20	0.42
4:AC:102:ILE:HD12	4:AC:102:ILE:O	2.20	0.42
5:AD:205:LYS:HE2	5:AD:205:LYS:CA	2.50	0.42
6:AE:40:ASP:OD2	6:AE:44:ARG:HB2	2.18	0.42
6:AE:111:ARG:O	6:AE:115:GLU:HG3	2.19	0.42
12:AK:58:THR:OG1	12:AK:59:PRO:HD2	2.19	0.42
13:AL:66:ILE:HA	13:AL:96:THR:CG2	2.49	0.42
14:AM:112:ARG:HG3	14:AM:112:ARG:HH11	1.84	0.42
16:AO:23:SER:O	16:AO:27:GLN:HG3	2.20	0.42
22:B0:49:A:C4'	22:B0:51:G:O4'	2.68	0.42
22:B0:214:G:O2'	22:B0:215:G:H5'	2.19	0.42
22:B0:265:A:H62	22:B0:428:A:C1'	2.33	0.42
22:B0:291:G:C2	22:B0:349:U:C2	3.08	0.42
22:B0:489:G:H4'	22:B0:1284:A:N3	2.34	0.42
22:B0:776:G:C2'	22:B0:777:G:OP2	2.68	0.42
22:B0:784:G:C5'	22:B0:785:G:OP1	2.59	0.42
22:B0:978:G:H2'	22:B0:979:A:O4'	2.19	0.42
22:B0:1175:A:H2'	22:B0:1177:G:C8	2.55	0.42
22:B0:1204:A:OP1	28:BC:148:ILE:HA	2.19	0.42
22:B0:1407:G:H2'	22:B0:1408:G:H8	1.84	0.42
22:B0:1410:G:O2'	22:B0:1411:U:OP1	2.35	0.42
22:B0:1426:G:O5'	22:B0:1428:C:N4	2.52	0.42
22:B0:1659:G:C2'	22:B0:1660:G:H5'	2.49	0.42
22:B0:1679:A:H2	22:B0:1764:C:C6	2.37	0.42
22:B0:1709:U:H2'	22:B0:1710:G:H8	1.84	0.42
22:B0:2058:A:O2'	22:B0:2059:A:P	2.77	0.42
22:B0:2161:C:C6	24:B2:6:ARG:N	2.84	0.42
22:B0:2214:C:C2'	22:B0:2215:C:H5'	2.50	0.42
22:B0:2282:G:C2'	22:B0:2283:C:OP2	2.67	0.42
22:B0:2304:G:O4'	22:B0:2304:G:OP1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2357:G:O2'	22:B0:2358:A:C8	2.72	0.42
22:B0:2812:G:N2	22:B0:2889:C:C4	2.87	0.42
26:BA:141:HIS:O	26:BA:190:THR:N	2.30	0.42
26:BA:147:PRO:HG3	26:BA:184:GLU:OE2	2.20	0.42
28:BC:27:LEU:HA	28:BC:30:GLN:HB3	2.01	0.42
28:BC:44:ARG:CA	28:BC:90:GLN:HA	2.49	0.42
28:BC:72:SER:HB2	28:BC:78:TRP:NE1	2.34	0.42
29:BD:30:VAL:HG12	29:BD:31:GLU:N	2.35	0.42
29:BD:91:ARG:NH1	29:BD:95:MET:HB2	2.35	0.42
33:BH:68:LYS:HZ2	33:BH:71:ASP:CG	2.28	0.42
35:BJ:17:LYS:O	35:BJ:18:ARG:NH2	2.52	0.42
35:BJ:126:ARG:HD3	35:BJ:126:ARG:N	2.34	0.42
38:BM:15:ARG:NH1	38:BM:25:ARG:HH11	2.18	0.42
38:BM:30:ARG:HG2	38:BM:30:ARG:HH11	1.84	0.42
39:BN:4:ILE:HG13	39:BN:5:LYS:HD3	2.01	0.42
39:BN:93:LYS:O	39:BN:94:ALA:HB2	2.20	0.42
42:BR:43:ILE:HB	42:BR:60:THR:HG22	2.01	0.42
46:BW:39:GLN:HG3	46:BW:41:HIS:H	1.85	0.42
48:BZ:29:VAL:HG11	48:BZ:32:THR:CG2	2.50	0.42
1:AA:243:A:H4'	1:AA:244:U:H5''	2.01	0.42
1:AA:243:A:H4'	1:AA:245:U:OP1	2.18	0.42
1:AA:250:A:O2'	1:AA:251:G:O5'	2.35	0.42
1:AA:416:G:H1	1:AA:427:U:H3	1.67	0.42
1:AA:442:G:H2'	1:AA:443:C:C6	2.54	0.42
1:AA:702:A:H62	22:B0:1847:A:C3'	2.24	0.42
1:AA:1098:C:O5'	1:AA:1098:C:H6	2.01	0.42
1:AA:1218:C:H2'	1:AA:1219:A:H8	1.82	0.42
2:AU:55:U:O2	2:AU:55:U:C2'	2.66	0.42
4:AC:24:ASN:O	4:AC:28:PHE:N	2.51	0.42
4:AC:76:ILE:HA	4:AC:83:VAL:CG1	2.39	0.42
4:AC:133:MET:HE3	4:AC:167:TYR:CB	2.49	0.42
4:AC:183:TYR:CG	4:AC:184:ASN:N	2.87	0.42
5:AD:144:ILE:HB	5:AD:149:LYS:CE	2.49	0.42
11:AJ:7:ARG:CB	11:AJ:7:ARG:HH11	2.33	0.42
17:AP:14:ARG:NH1	17:AP:14:ARG:CB	2.76	0.42
18:AQ:76:ARG:HG2	18:AQ:76:ARG:HH11	1.84	0.42
22:B0:108:G:H2'	22:B0:109:C:C6	2.54	0.42
22:B0:311:A:O4'	22:B0:332:A:C8	2.72	0.42
22:B0:373:U:O2'	22:B0:423:A:H1'	2.19	0.42
22:B0:538:A:H2'	22:B0:539:G:C5'	2.48	0.42
22:B0:661:A:HO2'	28:BC:95:LYS:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:928:A:O4'	47:BX:42:ALA:HB3	2.20	0.42
22:B0:960:A:OP2	22:B0:2496:C:C6	2.73	0.42
22:B0:1213:A:H62	22:B0:1236:G:H1'	1.84	0.42
22:B0:1391:U:OP1	22:B0:1539:A:H4'	2.19	0.42
22:B0:1418:G:O6	26:BA:101:ARG:HG3	2.19	0.42
22:B0:1473:C:H3'	22:B0:1474:U:H5'	2.02	0.42
22:B0:1491:A:N7	26:BA:179:GLU:C	2.76	0.42
22:B0:1768:C:H2'	22:B0:1769:U:H6	1.84	0.42
22:B0:2071:A:H2'	22:B0:2072:C:H6	1.84	0.42
22:B0:2178:C:OP1	22:B0:2180:U:O2	2.37	0.42
22:B0:2286:G:H1'	22:B0:2287:A:C5	2.55	0.42
22:B0:2808:G:O4'	22:B0:2892:G:N2	2.53	0.42
25:B3:73:ARG:CB	25:B3:73:ARG:HH11	2.33	0.42
25:B3:92:ALA:O	25:B3:94:LEU:N	2.53	0.42
26:BA:170:TYR:HD1	26:BA:171:VAL:N	2.17	0.42
26:BA:196:ASN:O	26:BA:196:ASN:OD1	2.38	0.42
27:BB:89:GLU:CG	27:BB:90:PHE:N	2.82	0.42
29:BD:129:MET:N	29:BD:129:MET:SD	2.92	0.42
30:BE:51:PHE:CD1	30:BE:51:PHE:C	2.97	0.42
31:BF:129:GLU:HG3	31:BF:129:GLU:O	2.20	0.42
36:BK:33:LEU:HD23	36:BK:33:LEU:C	2.45	0.42
37:BL:84:GLY:N	37:BL:86:ARG:HB2	2.35	0.42
41:BQ:31:GLN:HA	41:BQ:34:ASP:OD1	2.19	0.42
41:BQ:35:ILE:O	41:BQ:36:LEU:CB	2.59	0.42
42:BR:92:ASN:O	42:BR:94:ASP:N	2.53	0.42
46:BW:9:LYS:HB3	46:BW:13:GLU:HB2	2.01	0.42
48:BZ:51:ARG:CZ	48:BZ:51:ARG:HB2	2.49	0.42
49:B1:35:LEU:HB2	49:B1:50:GLU:OE2	2.19	0.42
1:AA:32:A:O2'	1:AA:33:A:H5'	2.18	0.42
1:AA:125:U:H2'	1:AA:126:G:C8	2.55	0.42
1:AA:638:U:H2'	1:AA:639:G:H8	1.83	0.42
1:AA:685:G:H2'	1:AA:686:U:C6	2.54	0.42
1:AA:1025:U:H2'	1:AA:1026:G:C8	2.54	0.42
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.20	0.42
1:AA:1129:C:H1'	1:AA:1132:C:H5	1.85	0.42
2:AV:6:U:O2'	2:AV:7:U:H5'	2.18	0.42
2:AW:16:U:P	2:AW:16:U:H6	2.42	0.42
4:AC:190:THR:HB	4:AC:193:GLY:O	2.20	0.42
5:AD:63:ILE:O	5:AD:110:ARG:HD2	2.19	0.42
7:AF:22:ILE:HD13	7:AF:26:THR:HG23	2.02	0.42
10:AI:34:LEU:CD2	10:AI:48:ARG:HD3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:118:ASN:ND2	12:AK:119:GLY:H	2.18	0.42
14:AM:1:ALA:HA	14:AM:2:ARG:CZ	2.49	0.42
14:AM:67:ASP:O	14:AM:71:GLU:HG3	2.20	0.42
15:AN:40:ARG:HA	20:AS:13:HIS:CB	2.49	0.42
21:AT:22:SER:O	21:AT:25:SER:HB3	2.19	0.42
22:B0:99:U:H5'	22:B0:102:U:O4'	2.19	0.42
22:B0:606:U:H5''	28:BC:102:ARG:HH22	1.84	0.42
22:B0:639:U:H2'	22:B0:640:C:C5	2.54	0.42
22:B0:661:A:P	35:BJ:27:LEU:HD22	2.60	0.42
22:B0:666:A:OP2	35:BJ:48:ARG:HB2	2.20	0.42
22:B0:921:C:O5'	22:B0:921:C:H6	2.02	0.42
22:B0:966:G:H2'	22:B0:967:U:C6	2.55	0.42
22:B0:996:A:H5''	40:BO:92:LYS:CD	2.48	0.42
22:B0:1062:G:H2'	22:B0:1063:G:H8	1.83	0.42
22:B0:1495:A:P	26:BA:189:ALA:HB3	2.60	0.42
22:B0:1797:G:H2'	22:B0:1798:U:C6	2.55	0.42
22:B0:1944:U:H1'	22:B0:1955:U:O4'	2.18	0.42
22:B0:2105:U:H2'	22:B0:2106:U:C6	2.54	0.42
22:B0:2566:A:H61	34:BI:28:SER:HB3	1.85	0.42
26:BA:57:HIS:C	26:BA:58:LYS:HD3	2.44	0.42
28:BC:176:ASP:O	28:BC:178:VAL:N	2.53	0.42
28:BC:194:LYS:HA	28:BC:197:GLU:OE1	2.19	0.42
29:BD:25:MET:SD	29:BD:25:MET:N	2.88	0.42
29:BD:169:LEU:C	29:BD:171:ALA:H	2.28	0.42
33:BH:23:LYS:HE3	33:BH:28:LEU:HD23	2.00	0.42
33:BH:48:VAL:HG12	33:BH:49:ASP:N	2.35	0.42
40:BO:14:LYS:HG3	40:BO:15:LYS:N	2.34	0.42
40:BO:18:LYS:O	40:BO:19:GLN:HB3	2.19	0.42
40:BO:45:ALA:O	40:BO:46:TYR:C	2.61	0.42
40:BO:48:ASP:HB3	40:BO:50:ARG:NH2	2.35	0.42
41:BQ:22:ASP:O	41:BQ:23:LEU:HB2	2.19	0.42
42:BR:50:LEU:C	42:BR:52:GLU:N	2.77	0.42
43:BS:65:GLN:HB2	43:BS:68:ASN:OD1	2.20	0.42
45:BU:36:ILE:HG23	45:BU:68:PHE:CB	2.46	0.42
49:B1:24:LYS:HE3	49:B1:24:LYS:H	1.83	0.42
1:AA:6:G:H3'	1:AA:6:G:N3	2.34	0.42
1:AA:243:A:N6	1:AA:281:G:N3	2.68	0.42
1:AA:305:G:H4'	1:AA:306:A:C8	2.54	0.42
1:AA:498:U:H2'	1:AA:499:A:O5'	2.20	0.42
1:AA:687:A:O2'	1:AA:688:G:OP2	2.38	0.42
1:AA:742:G:O2'	1:AA:743:A:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:893:C:OP1	1:AA:1416:G:H5'	2.20	0.42
1:AA:1085:U:H1'	1:AA:1094:G:C6	2.55	0.42
1:AA:1099:G:C4	1:AA:1100:C:H1'	2.54	0.42
1:AA:1158:C:H2'	1:AA:1159:U:H4'	2.01	0.42
2:AU:67:A:H2'	2:AU:68:U:C6	2.55	0.42
3:AB:170:ILE:H	3:AB:170:ILE:CD1	2.32	0.42
4:AC:64:ARG:HH11	4:AC:64:ARG:HG3	1.85	0.42
8:AG:52:ARG:HD3	8:AG:52:ARG:C	2.44	0.42
10:AI:118:ARG:HH12	10:AI:124:PRO:CB	2.32	0.42
11:AJ:17:LEU:HD12	11:AJ:17:LEU:C	2.44	0.42
11:AJ:17:LEU:HD13	11:AJ:96:VAL:CG2	2.50	0.42
12:AK:39:ASN:O	12:AK:41:LEU:HD22	2.20	0.42
15:AN:63:CYS:HB2	15:AN:79:SER:OG	2.20	0.42
16:AO:23:SER:HB2	16:AO:26:VAL:CG2	2.50	0.42
16:AO:25:GLU:H	16:AO:25:GLU:CD	2.26	0.42
16:AO:57:ARG:NH1	16:AO:57:ARG:HG2	2.34	0.42
17:AP:6:LEU:CD1	17:AP:71:VAL:HB	2.50	0.42
19:AR:24:ASP:OD2	19:AR:27:THR:HG22	2.20	0.42
19:AR:40:PRO:O	19:AR:44:THR:HG22	2.19	0.42
22:B0:192:C:H5	22:B0:203:A:H2	1.66	0.42
22:B0:493:G:N3	41:BQ:8:ARG:N	2.67	0.42
22:B0:535:G:H1'	40:BO:52:ARG:CD	2.49	0.42
22:B0:800:A:OP2	28:BC:53:THR:O	2.38	0.42
22:B0:832:U:OP1	22:B0:942:G:OP1	2.37	0.42
22:B0:1165:A:H2'	22:B0:1166:G:H8	1.85	0.42
22:B0:1342:A:O2'	22:B0:1343:G:OP1	2.38	0.42
22:B0:1455:U:N3	37:BL:64:ARG:NH2	2.67	0.42
22:B0:1578:U:OP1	26:BA:61:TYR:CE2	2.72	0.42
22:B0:1643:G:O2'	22:B0:1644:C:H5'	2.20	0.42
22:B0:1880:U:O2'	22:B0:1881:C:H5'	2.20	0.42
22:B0:1956:U:O5'	22:B0:1956:U:H6	2.03	0.42
22:B0:2104:C:H2'	22:B0:2105:U:C6	2.54	0.42
22:B0:2146:C:C2'	22:B0:2147:A:H5''	2.50	0.42
22:B0:2153:C:O2	22:B0:2153:C:C2'	2.67	0.42
22:B0:2328:A:N6	22:B0:2386:A:N6	2.68	0.42
22:B0:2438:U:H5'	22:B0:2600:A:H4'	1.99	0.42
22:B0:2645:G:O2'	22:B0:2646:C:H5'	2.18	0.42
22:B0:2676:C:H4'	27:BB:159:LYS:HE3	2.01	0.42
25:B5:43:GLY:C	25:B5:45:VAL:H	2.28	0.42
27:BB:82:PHE:O	27:BB:83:ARG:HG3	2.20	0.42
29:BD:101:ARG:O	29:BD:105:ILE:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:111:ARG:HD2	29:BD:112:ASP:N	2.33	0.42
33:BH:18:VAL:HG23	33:BH:19:ASP:N	2.35	0.42
35:BJ:80:SER:HB2	35:BJ:84:LYS:HE3	2.01	0.42
37:BL:30:ARG:NH1	37:BL:75:ILE:HD12	2.35	0.42
37:BL:49:GLU:H	37:BL:50:PRO:C	2.27	0.42
37:BL:67:PHE:O	37:BL:67:PHE:HD1	2.02	0.42
39:BN:9:GLN:NE2	39:BN:9:GLN:N	2.55	0.42
39:BN:37:LYS:CD	39:BN:39:LEU:HB2	2.50	0.42
40:BO:50:ARG:O	40:BO:50:ARG:HG2	2.19	0.42
47:BX:17:PRO:O	47:BX:18:LYS:HB2	2.19	0.42
49:B1:32:LYS:NZ	49:B1:32:LYS:CA	2.77	0.42
1:AA:722:G:H3'	1:AA:722:G:N3	2.34	0.42
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.50	0.42
1:AA:1392:G:H21	1:AA:1502:A:C1'	2.32	0.42
1:AA:1395:C:O5'	1:AA:1395:C:H6	2.03	0.42
2:AV:20:G:H3'	2:AV:21:A:H5''	1.91	0.42
2:AW:6:U:O2'	2:AW:7:U:H5'	2.18	0.42
2:AW:23:A:H2'	2:AW:24:G:H8	1.83	0.42
3:AB:95:TRP:CH2	3:AB:171:ALA:HA	2.55	0.42
4:AC:86:LEU:HA	4:AC:89:VAL:HG22	2.02	0.42
5:AD:12:ARG:NH1	5:AD:29:THR:HG21	2.34	0.42
6:AE:156:ARG:HH21	9:AH:72:GLU:CD	2.26	0.42
11:AJ:45:ARG:HG2	11:AJ:45:ARG:HH11	1.85	0.42
14:AM:97:ARG:NH2	14:AM:108:ARG:HG3	2.32	0.42
18:AQ:30:HIS:HE1	18:AQ:32:ILE:HD13	1.85	0.42
19:AR:7:ARG:HH11	19:AR:7:ARG:CB	2.33	0.42
22:B0:28:A:N6	22:B0:512:G:C1'	2.79	0.42
22:B0:205:G:H2'	22:B0:206:U:OP2	2.19	0.42
22:B0:283:G:O2'	22:B0:284:U:H5'	2.20	0.42
22:B0:284:U:H2'	22:B0:285:G:H8	1.85	0.42
22:B0:293:U:H2'	22:B0:295:G:H8	1.81	0.42
22:B0:675:A:C1'	22:B0:2443:C:O2'	2.65	0.42
22:B0:705:A:C5'	22:B0:1695:G:H4'	2.49	0.42
22:B0:959:A:N6	22:B0:2250:G:H3'	2.35	0.42
22:B0:1140:C:O2'	22:B0:1143:A:H3'	2.19	0.42
22:B0:1369:G:H2'	22:B0:1370:C:C6	2.54	0.42
22:B0:1416:G:C8	26:BA:100:ARG:HD3	2.55	0.42
22:B0:1498:C:P	26:BA:85:ASN:HD21	2.43	0.42
22:B0:2180:U:O5'	22:B0:2180:U:C6	2.72	0.42
22:B0:2345:G:O6	22:B0:2373:G:O6	2.38	0.42
22:B0:2485:G:H4'	36:BK:45:GLN:CD	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2879:A:H5'	22:B0:2880:C:OP1	2.20	0.42
27:BB:13:ARG:O	39:BN:7:LEU:HD12	2.20	0.42
27:BB:58:ASN:HA	27:BB:61:THR:CG2	2.46	0.42
27:BB:164:GLN:HA	27:BB:164:GLN:NE2	2.35	0.42
28:BC:93:SER:OG	35:BJ:23:ILE:HD12	2.18	0.42
28:BC:108:ILE:HD11	28:BC:181:ILE:HG23	2.02	0.42
29:BD:129:MET:H	29:BD:129:MET:HE2	1.85	0.42
30:BE:142:GLN:HE21	30:BE:142:GLN:HA	1.83	0.42
34:BI:57:VAL:HG23	34:BI:57:VAL:O	2.20	0.42
37:BL:39:PRO:O	37:BL:40:LYS:C	2.63	0.42
37:BL:116:VAL:HG22	37:BL:116:VAL:OXT	2.19	0.42
39:BN:52:ARG:HG2	39:BN:52:ARG:HH11	1.84	0.42
40:BO:47:ARG:HA	40:BO:47:ARG:CZ	2.49	0.42
40:BO:68:ALA:C	40:BO:70:GLN:H	2.27	0.42
42:BR:73:ARG:C	42:BR:73:ARG:HH11	2.27	0.42
49:B1:34:GLU:HB2	49:B1:35:LEU:H	1.62	0.42
1:AA:372:C:C2'	1:AA:373:A:OP2	2.68	0.42
1:AA:485:U:O2'	1:AA:486:U:C6	2.73	0.42
1:AA:652:U:O2'	1:AA:653:U:C6	2.68	0.42
1:AA:687:A:C4'	1:AA:688:G:O5'	2.64	0.42
1:AA:716:A:C2'	12:AK:119:GLY:HA2	2.49	0.42
1:AA:877:G:H5'	9:AH:79:ARG:NH1	2.35	0.42
1:AA:1073:U:H3	1:AA:1102:A:H61	1.66	0.42
3:AB:33:ALA:HA	3:AB:37:VAL:O	2.19	0.42
4:AC:125:ARG:O	4:AC:126:ARG:HB3	2.20	0.42
5:AD:10:LEU:HD13	5:AD:62:ARG:HH11	1.84	0.42
5:AD:61:ARG:HG3	5:AD:66:VAL:HG23	2.02	0.42
6:AE:107:GLY:H	6:AE:110:MET:HE3	1.84	0.42
6:AE:136:VAL:HG23	6:AE:137:ARG:CD	2.48	0.42
10:AI:128:LYS:O	10:AI:129:ARG:OXT	2.38	0.42
12:AK:43:TRP:HA	12:AK:69:CYS:SG	2.59	0.42
12:AK:47:GLY:HA2	12:AK:51:PHE:O	2.19	0.42
12:AK:58:THR:C	12:AK:60:PHE:H	2.26	0.42
14:AM:79:LEU:HD23	14:AM:79:LEU:H	1.84	0.42
18:AQ:60:ILE:CG2	18:AQ:72:TRP:HB3	2.49	0.42
18:AQ:65:PRO:HA	18:AQ:71:SER:HA	2.02	0.42
20:AS:79:TYR:CE2	20:AS:81:GLY:HA2	2.53	0.42
22:B0:320:A:N3	22:B0:323:C:C5	2.88	0.42
22:B0:586:A:H5''	28:BC:78:TRP:HA	2.01	0.42
22:B0:877:A:H61	22:B0:900:A:H61	1.67	0.42
22:B0:924:G:H4'	45:BU:24:ARG:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1351:C:H2'	22:B0:1352:U:C6	2.55	0.42
22:B0:1496:A:N6	26:BA:194:VAL:HG22	2.33	0.42
22:B0:1592:U:H2'	22:B0:1594:U:OP1	2.19	0.42
22:B0:1681:G:H8	22:B0:1681:G:O5'	2.03	0.42
22:B0:1832:C:H2'	22:B0:1833:C:C4'	2.49	0.42
22:B0:1999:C:O2'	22:B0:2000:C:H5'	2.19	0.42
22:B0:2033:A:HO2'	22:B0:2034:U:P	2.43	0.42
22:B0:2510:C:H2'	22:B0:2511:U:C6	2.55	0.42
22:B0:2847:U:H2'	22:B0:2848:G:O4'	2.19	0.42
22:B0:2863:C:H2'	22:B0:2864:G:C8	2.54	0.42
23:B9:91:C:O2'	23:B9:92:C:H5'	2.19	0.42
25:B3:17:MET:HB3	25:B3:53:GLU:OE1	2.19	0.42
25:B5:15:SER:O	25:B5:19:VAL:HG12	2.20	0.42
28:BC:108:ILE:HG12	28:BC:181:ILE:CD1	2.48	0.42
29:BD:31:GLU:C	29:BD:91:ARG:HE	2.27	0.42
29:BD:43:ILE:HD12	29:BD:43:ILE:N	2.24	0.42
30:BE:16:VAL:CG1	30:BE:25:ILE:HG12	2.50	0.42
30:BE:86:LEU:O	30:BE:130:ILE:HG12	2.19	0.42
32:BG:27:LEU:HA	32:BG:30:GLN:OE1	2.20	0.42
32:BG:105:LEU:HD13	32:BG:105:LEU:C	2.45	0.42
35:BJ:118:THR:OG1	35:BJ:120:VAL:HG12	2.19	0.42
36:BK:5:LYS:HG3	36:BK:95:LEU:HD21	2.02	0.42
37:BL:22:ARG:C	37:BL:23:ASN:O	2.61	0.42
39:BN:73:PHE:O	39:BN:74:GLN:HB2	2.20	0.42
39:BN:91:VAL:O	39:BN:92:ARG:NE	2.52	0.42
41:BQ:78:GLU:CG	41:BQ:79:GLY:H	2.24	0.42
42:BR:29:THR:O	42:BR:30:ILE:HD13	2.20	0.42
45:BU:45:HIS:CE1	45:BU:56:HIS:H	2.38	0.42
46:BW:36:GLN:C	46:BW:38:GLN:H	2.28	0.42
1:AA:327:A:H3'	1:AA:328:C:H5''	2.02	0.42
1:AA:508:U:H4'	1:AA:509:A:O5'	2.20	0.42
1:AA:559:A:H4'	1:AA:560:A:O5'	2.20	0.42
1:AA:617:G:H4'	17:AP:14:ARG:CZ	2.50	0.42
1:AA:709:U:H2'	1:AA:710:G:H8	1.85	0.42
1:AA:1322:C:C4'	1:AA:1323:G:OP1	2.67	0.42
1:AA:1367:C:O5'	10:AI:115:VAL:HG11	2.19	0.42
1:AA:1386:G:C4	10:AI:128:LYS:HE2	2.55	0.42
2:AV:18:G:H5''	2:AV:60:C:O2	2.20	0.42
2:AV:22:G:O2'	2:AV:23:A:H5'	2.20	0.42
2:AW:63:C:H2'	2:AW:64:A:H8	1.85	0.42
4:AC:58:ARG:HG2	4:AC:63:ILE:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:153:SER:CB	4:AC:164:THR:HG22	2.50	0.42
6:AE:20:VAL:HG21	6:AE:33:THR:HG23	2.01	0.42
6:AE:74:ALA:O	6:AE:81:GLN:NE2	2.52	0.42
6:AE:80:LEU:HD12	6:AE:146:MET:HE1	2.01	0.42
6:AE:132:PRO:HA	6:AE:135:VAL:HG22	2.02	0.42
7:AF:90:MET:HE1	7:AF:94:HIS:CD2	2.55	0.42
8:AG:79:VAL:HB	8:AG:84:TYR:HD2	1.85	0.42
11:AJ:44:THR:HG23	11:AJ:69:THR:C	2.45	0.42
17:AP:57:ILE:O	17:AP:61:VAL:HG23	2.20	0.42
19:AR:34:GLU:H	19:AR:34:GLU:CD	2.28	0.42
20:AS:51:HIS:HB2	20:AS:56:HIS:CE1	2.55	0.42
22:B0:128:C:N3	22:B0:129:C:N4	2.68	0.42
22:B0:426:C:H2'	22:B0:427:U:C6	2.55	0.42
22:B0:493:G:H21	41:BQ:7:HIS:CD2	2.36	0.42
22:B0:603:A:C6	22:B0:626:A:H4'	2.55	0.42
22:B0:667:U:H5	35:BJ:48:ARG:NH1	2.18	0.42
22:B0:751:A:N6	22:B0:789:A:N7	2.67	0.42
22:B0:961:C:P	22:B0:2496:C:C6	3.13	0.42
22:B0:1112:G:H2'	22:B0:1113:U:H6	1.84	0.42
22:B0:1212:G:N2	22:B0:1236:G:H2'	2.35	0.42
22:B0:1250:G:H5''	40:BO:5:ARG:HH12	1.84	0.42
22:B0:1252:G:H22	40:BO:36:GLN:NE2	2.17	0.42
22:B0:1402:U:H2'	22:B0:1403:A:C8	2.55	0.42
22:B0:1418:G:O6	26:BA:101:ARG:CG	2.68	0.42
22:B0:1680:U:H3'	22:B0:1681:G:C8	2.54	0.42
22:B0:1761:C:N4	22:B0:1762:A:N3	2.68	0.42
22:B0:1896:G:H2'	22:B0:1897:G:H8	1.84	0.42
22:B0:1899:A:O2'	22:B0:1901:A:OP1	2.33	0.42
22:B0:2044:C:H2'	22:B0:2045:C:C6	2.55	0.42
22:B0:2059:A:O2'	22:B0:2060:A:OP1	2.33	0.42
22:B0:2110:G:O2'	22:B0:2111:U:O4'	2.38	0.42
22:B0:2158:A:O3'	22:B0:2159:G:H4'	2.20	0.42
22:B0:2262:U:C5	45:BU:12:GLY:HA2	2.55	0.42
22:B0:2562:U:OP1	34:BI:40:LYS:HD3	2.20	0.42
23:B9:95:U:H2'	23:B9:96:G:C8	2.55	0.42
24:B2:184:LEU:HA	24:B2:187:ASN:ND2	2.35	0.42
26:BA:243:PRO:HA	26:BA:256:THR:HG23	2.02	0.42
27:BB:4:LEU:HB3	27:BB:101:PHE:HE2	1.85	0.42
27:BB:80:TRP:CZ3	27:BB:84:LEU:HB3	2.55	0.42
29:BD:70:ARG:HB3	29:BD:70:ARG:NH1	2.34	0.42
29:BD:149:ARG:HH11	29:BD:151:LEU:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:88:LEU:HD22	30:BE:88:LEU:C	2.45	0.42
33:BH:139:VAL:O	33:BH:140:LEU:HD13	2.19	0.42
35:BJ:31:GLY:HA2	35:BJ:38:GLN:CD	2.45	0.42
35:BJ:81:ASP:O	35:BJ:83:ALA:N	2.53	0.42
36:BK:50:ARG:HD2	36:BK:50:ARG:O	2.19	0.42
37:BL:41:ALA:HA	37:BL:44:LEU:HB2	2.02	0.42
38:BM:16:ARG:HH11	38:BM:16:ARG:HG2	1.85	0.42
39:BN:8:GLU:HB2	39:BN:56:SER:HB2	2.02	0.42
40:BO:52:ARG:NE	40:BO:52:ARG:HA	2.34	0.42
1:AA:6:G:N3	1:AA:6:G:C2'	2.83	0.41
1:AA:154:U:H2'	1:AA:155:A:C8	2.55	0.41
1:AA:243:A:O2'	1:AA:244:U:C5'	2.68	0.41
1:AA:535:A:H5''	1:AA:536:C:OP2	2.20	0.41
1:AA:797:C:H2'	1:AA:798:U:C6	2.55	0.41
1:AA:815:A:N7	1:AA:1510:C:C4'	2.83	0.41
1:AA:939:G:N2	1:AA:1343:G:N1	2.68	0.41
1:AA:966:G:H2'	1:AA:967:C:C6	2.55	0.41
1:AA:979:C:C5'	20:AS:3:SER:HB2	2.49	0.41
1:AA:1221:G:H3'	20:AS:2:ARG:N	2.35	0.41
1:AA:1256:A:O2'	1:AA:1257:A:O5'	2.38	0.41
1:AA:1277:C:O2'	1:AA:1278:G:H5'	2.20	0.41
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.55	0.41
1:AA:1502:A:OP2	1:AA:1503:A:OP2	2.38	0.41
2:AU:38:A:C5	2:AU:39:U:O2	2.73	0.41
2:AW:60:C:C5'	2:AW:61:C:OP2	2.68	0.41
7:AF:15:SER:C	7:AF:17:GLN:H	2.28	0.41
10:AI:17:ARG:HH21	10:AI:65:THR:HG21	1.84	0.41
11:AJ:17:LEU:HD13	11:AJ:96:VAL:HG22	2.02	0.41
12:AK:46:ALA:HB3	12:AK:56:LYS:HB2	2.01	0.41
22:B0:301:G:O6	22:B0:310:A:O3'	2.37	0.41
22:B0:323:C:O5'	22:B0:324:A:OP1	2.38	0.41
22:B0:371:A:O2'	22:B0:372:G:H5''	2.19	0.41
22:B0:406:G:O2'	22:B0:407:G:H5'	2.20	0.41
22:B0:746:U:OP1	41:BQ:90:LYS:HE3	2.20	0.41
22:B0:891:G:N3	22:B0:891:G:C3'	2.79	0.41
22:B0:1201:U:H2'	35:BJ:14:LYS:CD	2.50	0.41
22:B0:1202:G:OP1	35:BJ:12:SER:HB3	2.19	0.41
22:B0:1322:A:C2	22:B0:1334:G:H5'	2.54	0.41
22:B0:1356:G:H2'	22:B0:1357:C:C6	2.55	0.41
22:B0:1381:G:C2'	22:B0:1382:G:H5'	2.50	0.41
22:B0:1410:G:H4'	22:B0:1411:U:OP1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1529:G:H2'	22:B0:1530:C:C6	2.55	0.41
22:B0:1677:A:H2	22:B0:1991:U:H1'	1.84	0.41
22:B0:1707:G:O2'	22:B0:1708:C:H5'	2.19	0.41
22:B0:1995:U:O2	27:BB:137:SER:HA	2.19	0.41
22:B0:2040:G:O2'	22:B0:2041:U:H5'	2.19	0.41
22:B0:2117:A:H2'	22:B0:2118:U:C2	2.55	0.41
22:B0:2329:U:H2'	22:B0:2330:G:C8	2.55	0.41
22:B0:2353:G:H2'	22:B0:2354:C:C6	2.55	0.41
22:B0:2581:G:HO2'	22:B0:2582:G:P	2.43	0.41
22:B0:2678:C:O2'	27:BB:165:MET:HG2	2.20	0.41
23:B9:55:U:H2'	23:B9:56:G:O4'	2.20	0.41
24:B2:45:VAL:CG1	24:B2:211:VAL:HG13	2.46	0.41
26:BA:159:THR:OG1	26:BA:160:TYR:N	2.53	0.41
28:BC:29:HIS:HA	35:BJ:17:LYS:NZ	2.35	0.41
29:BD:8:LYS:HD2	29:BD:8:LYS:O	2.20	0.41
35:BJ:108:ALA:H	35:BJ:126:ARG:HG2	1.84	0.41
36:BK:35:ALA:CB	36:BK:128:THR:HG22	2.50	0.41
36:BK:40:ARG:HB3	36:BK:93:VAL:CG2	2.47	0.41
36:BK:105:MET:SD	36:BK:105:MET:C	3.03	0.41
39:BN:13:LYS:H	39:BN:13:LYS:CD	2.31	0.41
40:BO:58:GLN:OE1	40:BO:59:LEU:N	2.53	0.41
42:BR:36:LYS:C	42:BR:38:ALA:N	2.77	0.41
43:BS:64:ILE:N	43:BS:64:ILE:CD1	2.83	0.41
45:BU:37:VAL:CG2	45:BU:38:ARG:N	2.83	0.41
46:BW:28:LEU:HD13	46:BW:43:LEU:CD2	2.49	0.41
47:BX:40:THR:HB	47:BX:43:ILE:CG1	2.50	0.41
48:BZ:32:THR:OG1	48:BZ:33:SER:N	2.53	0.41
1:AA:699:C:O2'	1:AA:704:A:H1'	2.20	0.41
1:AA:725:G:H2'	1:AA:726:C:C6	2.54	0.41
1:AA:838:G:C2'	1:AA:839:U:H5''	2.49	0.41
1:AA:872:A:C5'	1:AA:873:A:OP1	2.68	0.41
1:AA:944:G:H2'	1:AA:1339:A:H61	1.84	0.41
1:AA:1306:A:N6	1:AA:1331:G:O2'	2.53	0.41
1:AA:1464:U:H2'	1:AA:1465:A:H8	1.84	0.41
3:AB:41:ASN:CB	3:AB:44:LYS:HD3	2.49	0.41
3:AB:102:ASN:OD1	3:AB:105:THR:HB	2.20	0.41
4:AC:28:PHE:O	4:AC:32:LEU:HG	2.20	0.41
7:AF:14:GLN:HB3	7:AF:18:VAL:CG2	2.51	0.41
7:AF:20:GLY:O	7:AF:23:GLU:HB3	2.20	0.41
10:AI:49:GLN:N	10:AI:50:PRO:CD	2.82	0.41
10:AI:57:VAL:C	10:AI:59:LYS:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:106:ILE:C	12:AK:106:ILE:CD1	2.93	0.41
14:AM:21:ILE:C	14:AM:23:GLY:H	2.28	0.41
17:AP:8:ARG:HH11	17:AP:8:ARG:HG3	1.85	0.41
17:AP:21:VAL:HG11	17:AP:60:TRP:CE3	2.56	0.41
18:AQ:35:LYS:HZ2	18:AQ:37:ILE:HG22	1.82	0.41
20:AS:35:ARG:HH22	20:AS:52:ASN:HA	1.85	0.41
22:B0:211:C:H2'	22:B0:212:G:H8	1.85	0.41
22:B0:221:A:N1	22:B0:265:A:O2'	2.53	0.41
22:B0:276:U:HO2'	22:B0:278:A:P	2.43	0.41
22:B0:431:U:H2'	22:B0:432:A:C5'	2.50	0.41
22:B0:634:C:H2'	22:B0:635:C:C6	2.55	0.41
22:B0:777:G:H2'	22:B0:778:G:O4'	2.20	0.41
22:B0:787:C:H3'	22:B0:791:C:N4	2.35	0.41
22:B0:799:G:C4	28:BC:56:GLY:CA	3.03	0.41
22:B0:821:A:O5'	22:B0:836:G:N2	2.53	0.41
22:B0:947:A:H2'	22:B0:948:C:H6	1.83	0.41
22:B0:1202:G:P	35:BJ:14:LYS:HZ2	2.43	0.41
22:B0:1416:G:N1	22:B0:1417:U:O4	2.53	0.41
22:B0:1571:A:H2'	22:B0:1572:A:H8	1.84	0.41
22:B0:1802:A:O2'	22:B0:1803:A:H5'	2.20	0.41
22:B0:2031:A:N6	22:B0:2455:G:O2'	2.53	0.41
22:B0:2075:U:O4	22:B0:2242:G:O6	2.38	0.41
22:B0:2127:G:H3'	22:B0:2166:U:O5'	2.19	0.41
22:B0:2366:A:C5'	45:BU:65:LYS:HE3	2.50	0.41
22:B0:2433:A:O2'	22:B0:2434:A:OP1	2.33	0.41
22:B0:2497:A:C2'	22:B0:2498:C:OP2	2.68	0.41
22:B0:2752:C:H2'	22:B0:2753:A:O4'	2.20	0.41
22:B0:2812:G:H2'	22:B0:2813:A:H8	1.83	0.41
24:B2:26:ILE:O	24:B2:29:LEU:HB3	2.19	0.41
24:B2:147:ASN:ND2	24:B2:150:GLU:HB2	2.30	0.41
27:BB:96:ILE:HG22	27:BB:97:SER:N	2.36	0.41
28:BC:88:ARG:HB2	35:BJ:30:THR:CG2	2.50	0.41
29:BD:100:GLU:C	29:BD:102:LEU:H	2.28	0.41
31:BF:97:ARG:HH11	31:BF:97:ARG:HG3	1.84	0.41
32:BG:96:LYS:HD2	32:BG:96:LYS:N	2.30	0.41
33:BH:32:LEU:H	33:BH:35:ARG:HD2	1.85	0.41
33:BH:93:ILE:O	33:BH:93:ILE:HG12	2.20	0.41
34:BI:68:GLY:HA2	34:BI:77:ILE:O	2.21	0.41
36:BK:124:LEU:H	36:BK:124:LEU:CD2	2.29	0.41
39:BN:88:ARG:HG2	39:BN:89:GLY:H	1.83	0.41
40:BO:55:GLN:CD	40:BO:56:PHE:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:110:GLU:HG2	40:BO:110:GLU:H	1.69	0.41
41:BQ:18:ARG:HB2	41:BQ:76:VAL:HG21	2.03	0.41
42:BR:14:PRO:HA	42:BR:32:LEU:HG	2.01	0.41
42:BR:92:ASN:O	42:BR:93:LEU:HD13	2.17	0.41
49:B1:48:TYR:N	49:B1:48:TYR:CD1	2.88	0.41
1:AA:91:U:H2'	1:AA:92:U:C6	2.54	0.41
1:AA:223:A:H2'	1:AA:224:U:C6	2.55	0.41
1:AA:272:C:H2'	1:AA:273:U:C6	2.55	0.41
1:AA:575:G:C6	1:AA:821:G:N7	2.88	0.41
1:AA:692:U:H2'	1:AA:694:A:OP2	2.20	0.41
1:AA:701:U:H5''	1:AA:703:G:H1'	2.02	0.41
1:AA:818:G:H3'	1:AA:819:A:H5'	2.02	0.41
1:AA:820:U:H6	1:AA:820:U:O5'	2.04	0.41
1:AA:895:G:H2'	1:AA:896:C:C6	2.56	0.41
1:AA:942:G:H2'	1:AA:943:U:H6	1.85	0.41
1:AA:1253:G:N1	1:AA:1285:A:N6	2.68	0.41
1:AA:1271:A:H4'	1:AA:1314:C:H5'	2.03	0.41
2:AU:74:C:C5'	22:B0:2556:C:C2	3.03	0.41
2:AV:67:A:H2'	2:AV:68:U:C6	2.55	0.41
3:AB:185:ILE:N	3:AB:185:ILE:CD1	2.81	0.41
3:AB:216:VAL:HG13	3:AB:217:ALA:N	2.35	0.41
4:AC:39:ARG:HG2	4:AC:54:ILE:HG13	2.02	0.41
4:AC:137:VAL:HG22	4:AC:150:VAL:HG23	2.02	0.41
5:AD:71:PHE:CE1	5:AD:93:LEU:HD21	2.54	0.41
5:AD:81:LEU:N	5:AD:81:LEU:HD22	2.36	0.41
10:AI:19:PHE:HB3	10:AI:21:LYS:NZ	2.36	0.41
10:AI:53:LEU:HD12	10:AI:53:LEU:N	2.35	0.41
16:AO:11:VAL:HG13	16:AO:26:VAL:CG1	2.51	0.41
16:AO:81:ILE:H	16:AO:81:ILE:CD1	2.33	0.41
20:AS:12:LEU:HD12	20:AS:12:LEU:C	2.46	0.41
20:AS:27:LYS:HG2	20:AS:28:LYS:N	2.35	0.41
22:B0:71:A:N6	22:B0:114:U:H3	2.18	0.41
22:B0:255:A:H2'	22:B0:256:A:O4'	2.21	0.41
22:B0:446:G:H2'	22:B0:447:A:OP2	2.20	0.41
22:B0:476:G:C4	22:B0:478:A:OP2	2.73	0.41
22:B0:586:A:H5''	28:BC:79:ARG:N	2.31	0.41
22:B0:628:G:H2'	22:B0:629:G:C8	2.55	0.41
22:B0:659:G:C1'	28:BC:98:LYS:HG3	2.49	0.41
22:B0:740:C:H42	22:B0:758:C:H1'	1.84	0.41
22:B0:802:A:OP1	28:BC:62:GLN:C	2.63	0.41
22:B0:803:U:OP2	28:BC:64:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:878:A:H61	22:B0:899:A:H61	1.68	0.41
22:B0:942:G:H5'	35:BJ:40:SER:O	2.20	0.41
22:B0:959:A:N7	22:B0:2250:G:H1'	2.35	0.41
22:B0:978:G:H1	22:B0:985:C:H42	1.67	0.41
22:B0:997:G:H2'	22:B0:998:C:C6	2.55	0.41
22:B0:1005:C:C4	22:B0:1143:A:H1'	2.54	0.41
22:B0:1197:G:N2	40:BO:8:ILE:HD13	2.35	0.41
22:B0:1332:G:H21	22:B0:1610:A:H8	1.65	0.41
22:B0:1992:G:C4'	22:B0:1993:U:OP1	2.68	0.41
22:B0:2123:G:C5'	22:B0:2124:G:O5'	2.68	0.41
22:B0:2178:C:OP1	22:B0:2180:U:C2	2.73	0.41
22:B0:2544:G:H2'	22:B0:2545:G:C8	2.56	0.41
23:B9:16:G:H2'	23:B9:17:C:O5'	2.20	0.41
23:B9:28:C:H1'	23:B9:59:A:N1	2.34	0.41
25:B5:27:GLU:HG2	25:B5:28:GLU:N	2.35	0.41
26:BA:101:ARG:CZ	26:BA:101:ARG:HB2	2.50	0.41
26:BA:149:LYS:NZ	26:BA:152:GLN:CG	2.79	0.41
29:BD:94:ARG:O	29:BD:96:TRP:N	2.53	0.41
29:BD:126:ASN:C	29:BD:126:ASN:HD22	2.28	0.41
32:BG:11:GLN:H	32:BG:11:GLN:CD	2.28	0.41
32:BG:52:LEU:C	32:BG:52:LEU:HD13	2.46	0.41
33:BH:9:GLU:O	33:BH:13:ARG:CZ	2.68	0.41
33:BH:41:LYS:HD3	33:BH:43:GLU:N	2.27	0.41
33:BH:112:GLY:CA	33:BH:113:PRO:O	2.55	0.41
35:BJ:25:SER:O	35:BJ:26:GLY:O	2.38	0.41
35:BJ:81:ASP:OD2	35:BJ:116:VAL:HG12	2.20	0.41
35:BJ:103:ILE:H	35:BJ:103:ILE:HG12	1.69	0.41
37:BL:25:ALA:CA	37:BL:28:LEU:HD21	2.46	0.41
37:BL:103:ARG:HH11	37:BL:103:ARG:HG2	1.85	0.41
40:BO:2:ARG:HH12	40:BO:3:VAL:HG12	1.83	0.41
40:BO:15:LYS:HA	40:BO:18:LYS:CE	2.47	0.41
40:BO:43:GLN:O	40:BO:44:TYR:CD2	2.73	0.41
41:BQ:69:LEU:C	41:BQ:70:LYS:HD3	2.44	0.41
43:BS:39:ASN:OD1	43:BS:49:PRO:HB3	2.20	0.41
45:BU:58:LEU:HB2	45:BU:81:ILE:CD1	2.49	0.41
49:B1:7:LYS:HD3	49:B1:7:LYS:H	1.84	0.41
1:AA:45:G:H1	1:AA:396:C:H42	1.68	0.41
1:AA:256:U:H2'	1:AA:257:G:C8	2.55	0.41
1:AA:271:C:H2'	1:AA:272:C:C6	2.55	0.41
1:AA:382:A:O2'	1:AA:383:A:H5'	2.21	0.41
1:AA:419:C:C4'	1:AA:540:G:N2	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:490:C:H2'	1:AA:491:G:H8	1.85	0.41
1:AA:779:C:H2'	1:AA:780:A:O4'	2.19	0.41
1:AA:1064:G:N2	1:AA:1191:A:N7	2.68	0.41
1:AA:1238:A:N6	1:AA:1239:A:C2	2.89	0.41
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.49	0.41
1:AA:1453:G:C2'	1:AA:1454:G:H5'	2.50	0.41
2:AV:18:G:H1'	2:AV:57:G:N2	2.36	0.41
2:AV:55:U:O2	2:AV:55:U:C2'	2.69	0.41
2:AW:19:G:C1'	2:AW:57:G:H21	2.33	0.41
2:AW:28:C:H2'	2:AW:29:A:H8	1.85	0.41
3:AB:81:ASP:HB2	3:AB:233:GLU:HG2	2.02	0.41
4:AC:20:THR:HG23	4:AC:20:THR:O	2.20	0.41
5:AD:61:ARG:HH11	5:AD:61:ARG:HG2	1.86	0.41
7:AF:70:VAL:O	7:AF:70:VAL:HG22	2.20	0.41
10:AI:53:LEU:HD21	10:AI:100:ALA:HB2	2.03	0.41
12:AK:41:LEU:HB3	12:AK:76:TYR:CE2	2.55	0.41
16:AO:56:LEU:HD13	16:AO:56:LEU:O	2.20	0.41
22:B0:312:G:H4'	22:B0:331:C:N4	2.35	0.41
22:B0:366:C:H2'	22:B0:367:G:C8	2.56	0.41
22:B0:488:G:H22	41:BQ:9:HIS:CE1	2.38	0.41
22:B0:504:A:O5'	22:B0:511:U:H5''	2.21	0.41
22:B0:540:G:O2'	22:B0:541:C:H5'	2.20	0.41
22:B0:640:C:H2'	22:B0:641:U:O4'	2.19	0.41
22:B0:666:A:OP1	35:BJ:50:PHE:O	2.38	0.41
22:B0:989:G:O2'	22:B0:990:A:OP1	2.35	0.41
22:B0:1202:G:H8	35:BJ:14:LYS:NZ	2.18	0.41
22:B0:1231:U:H2'	22:B0:1232:G:H8	1.85	0.41
22:B0:1282:U:H2'	22:B0:1283:G:C8	2.55	0.41
22:B0:1432:G:H2'	22:B0:1433:A:O4'	2.20	0.41
22:B0:1496:A:P	26:BA:191:LEU:H	2.43	0.41
22:B0:1578:U:OP1	26:BA:63:ILE:HG13	2.21	0.41
22:B0:1649:G:H2'	22:B0:1650:A:C8	2.55	0.41
22:B0:1690:A:H2'	22:B0:1691:C:O4'	2.19	0.41
22:B0:2136:G:O6	22:B0:2137:U:C5	2.73	0.41
22:B0:2138:G:O5'	22:B0:2139:U:OP1	2.38	0.41
22:B0:2152:G:P	22:B0:2153:C:N3	2.94	0.41
22:B0:2244:U:C4	22:B0:2245:U:O4	2.73	0.41
22:B0:2247:A:O2'	22:B0:2248:C:H5'	2.21	0.41
22:B0:2257:U:O2'	22:B0:2258:C:OP1	2.39	0.41
22:B0:2640:G:O3'	33:BH:79:GLY:HA2	2.20	0.41
22:B0:2678:C:OP2	27:BB:124:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2782:G:H2'	22:B0:2783:U:C6	2.56	0.41
22:B0:2896:U:H1'	33:BH:39:LYS:HG2	2.02	0.41
22:B0:2899:A:H61	33:BH:137:PRO:HD2	1.85	0.41
24:B2:150:GLU:HA	24:B2:153:LYS:CE	2.50	0.41
25:B3:3:THR:HB	25:B3:6:GLN:HG2	2.01	0.41
26:BA:67:LYS:HZ2	26:BA:188:ARG:NH2	2.05	0.41
27:BB:38:LYS:HB3	27:BB:77:ARG:O	2.20	0.41
27:BB:122:VAL:HG12	27:BB:141:ARG:NH2	2.35	0.41
28:BC:112:LEU:HD12	28:BC:112:LEU:N	2.35	0.41
30:BE:101:VAL:CG1	30:BE:113:ASP:HB3	2.48	0.41
32:BG:132:ALA:O	32:BG:133:ARG:NE	2.53	0.41
33:BH:109:LEU:HB2	33:BH:111:LYS:N	2.36	0.41
33:BH:122:LEU:HD13	33:BH:122:LEU:N	2.18	0.41
39:BN:28:LYS:O	39:BN:28:LYS:HG2	2.20	0.41
39:BN:49:ILE:HG22	39:BN:50:ARG:N	2.35	0.41
39:BN:54:LEU:O	39:BN:58:PHE:HB3	2.20	0.41
39:BN:65:ASN:H	39:BN:71:ARG:CB	2.33	0.41
40:BO:9:ALA:O	40:BO:10:ARG:CB	2.68	0.41
40:BO:13:HIS:O	40:BO:16:ILE:HG22	2.20	0.41
40:BO:16:ILE:O	40:BO:18:LYS:N	2.51	0.41
40:BO:58:GLN:O	40:BO:62:ALA:HB3	2.20	0.41
41:BQ:27:LYS:HA	41:BQ:70:LYS:HB3	2.01	0.41
42:BR:39:THR:OG1	42:BR:40:LYS:N	2.54	0.41
44:BT:57:TYR:HA	44:BT:74:ALA:HB3	2.02	0.41
45:BU:13:ARG:NE	45:BU:13:ARG:N	2.66	0.41
1:AA:163:C:H2'	1:AA:164:G:C8	2.55	0.41
1:AA:250:A:H1'	1:AA:252:U:C4	2.55	0.41
1:AA:287:U:H2'	1:AA:288:A:C8	2.56	0.41
1:AA:418:C:H5''	1:AA:540:G:H3'	1.81	0.41
1:AA:419:C:P	1:AA:541:G:O4'	2.72	0.41
1:AA:807:A:H2'	1:AA:808:C:C6	2.55	0.41
1:AA:821:G:H2'	1:AA:822:U:C6	2.55	0.41
1:AA:840:C:O5'	1:AA:840:C:H6	2.02	0.41
1:AA:955:U:H2'	1:AA:956:U:O4'	2.20	0.41
1:AA:1096:C:O2'	1:AA:1168:U:H1'	2.21	0.41
1:AA:1126:U:O4	1:AA:1145:A:N1	2.54	0.41
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.86	0.41
3:AB:237:VAL:C	3:AB:239:ALA:H	2.28	0.41
4:AC:93:ILE:HD12	4:AC:93:ILE:H	1.86	0.41
4:AC:152:VAL:HG13	4:AC:195:ILE:CG1	2.50	0.41
5:AD:13:ARG:HG3	5:AD:55:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:100:VAL:HG12	5:AD:104:MET:SD	2.61	0.41
5:AD:104:MET:CE	5:AD:142:VAL:HB	2.49	0.41
9:AH:72:GLU:OE1	9:AH:72:GLU:N	2.43	0.41
10:AI:20:ILE:HD13	10:AI:86:LEU:HD23	2.02	0.41
12:AK:120:CYS:O	12:AK:121:ARG:O	2.37	0.41
19:AR:11:ARG:HD3	19:AR:46:THR:CG2	2.48	0.41
22:B0:233:A:H61	22:B0:428:A:H61	1.69	0.41
22:B0:292:U:C4	22:B0:348:A:N6	2.84	0.41
22:B0:497:A:H2'	22:B0:498:G:C8	2.55	0.41
22:B0:589:U:C2'	28:BC:48:THR:HB	2.47	0.41
22:B0:620:G:O2'	22:B0:621:A:P	2.78	0.41
22:B0:623:C:H2'	22:B0:624:C:C6	2.55	0.41
22:B0:733:G:H5''	22:B0:761:A:H62	1.75	0.41
22:B0:799:G:H3'	28:BC:57:LYS:N	2.35	0.41
22:B0:800:A:C4'	22:B0:801:G:H5''	2.51	0.41
22:B0:1126:A:N3	22:B0:1126:A:H2'	2.36	0.41
22:B0:1313:U:O2'	22:B0:1332:G:H4'	2.20	0.41
22:B0:1365:A:H2'	22:B0:1366:A:C8	2.56	0.41
22:B0:1421:G:N3	26:BA:148:GLY:CA	2.77	0.41
22:B0:1582:C:H5	26:BA:73:ILE:CD1	2.34	0.41
22:B0:1582:C:C6	26:BA:96:LYS:HD2	2.56	0.41
22:B0:1991:U:H2'	22:B0:1992:G:H5'	2.02	0.41
22:B0:2075:U:H2'	22:B0:2076:U:O5'	2.20	0.41
22:B0:2127:G:N9	22:B0:2166:U:H5'	2.35	0.41
22:B0:2447:G:O2'	22:B0:2448:A:H3'	2.19	0.41
22:B0:2480:C:C2'	22:B0:2481:G:H5'	2.51	0.41
22:B0:2544:G:H2'	22:B0:2545:G:H8	1.84	0.41
22:B0:2832:U:HO2'	22:B0:2833:U:P	2.42	0.41
22:B0:2836:U:H2'	22:B0:2837:A:H8	1.85	0.41
22:B0:2899:A:H61	33:BH:137:PRO:CB	2.33	0.41
26:BA:80:LEU:HD11	26:BA:89:ASN:CB	2.50	0.41
26:BA:154:ALA:HB1	26:BA:159:THR:HG23	1.99	0.41
26:BA:250:GLN:O	26:BA:251:THR:HB	2.20	0.41
28:BC:36:ALA:HB2	35:BJ:18:ARG:HD3	2.02	0.41
29:BD:29:ARG:HG2	29:BD:30:VAL:N	2.34	0.41
31:BF:29:PHE:O	31:BF:32:PRO:HD2	2.21	0.41
33:BH:39:LYS:O	33:BH:40:HIS:CD2	2.74	0.41
34:BI:41:ILE:N	34:BI:41:ILE:CD1	2.81	0.41
34:BI:112:PHE:CG	34:BI:115:ILE:HD12	2.55	0.41
35:BJ:54:GLN:NE2	35:BJ:58:TYR:H	2.19	0.41
36:BK:80:VAL:O	36:BK:80:VAL:CG1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:19:ALA:C	37:BL:21:PHE:H	2.26	0.41
37:BL:53:THR:HA	37:BL:56:LYS:HB2	2.03	0.41
37:BL:113:ILE:H	37:BL:113:ILE:CD1	2.23	0.41
39:BN:60:VAL:O	39:BN:61:ARG:HD3	2.20	0.41
42:BR:91:GLN:HE21	42:BR:91:GLN:HA	1.85	0.41
43:BS:93:ARG:HH11	43:BS:93:ARG:HG3	1.85	0.41
49:B1:31:GLU:C	49:B1:31:GLU:OE1	2.64	0.41
1:AA:583:A:H2'	1:AA:584:G:O4'	2.21	0.41
1:AA:625:U:H2'	1:AA:626:G:C8	2.56	0.41
1:AA:992:U:H4'	1:AA:993:G:C5'	2.51	0.41
1:AA:1033:G:H2'	1:AA:1034:G:O4'	2.21	0.41
1:AA:1298:U:O2'	1:AA:1335:U:C2	2.73	0.41
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.85	0.41
1:AA:1509:C:O2'	1:AA:1510:C:H5'	2.21	0.41
2:AU:18:G:H1'	2:AU:57:G:H22	1.84	0.41
2:AV:16:U:HO2'	2:AV:17:U:H5''	1.84	0.41
2:AV:63:C:H2'	2:AV:64:A:H8	1.85	0.41
4:AC:19:SER:OG	4:AC:56:ILE:HB	2.20	0.41
4:AC:108:PRO:HB3	4:AC:114:LEU:CD1	2.50	0.41
4:AC:130:ARG:CD	6:AE:53:ARG:HD3	2.50	0.41
5:AD:58:GLN:NE2	5:AD:58:GLN:HA	2.36	0.41
5:AD:97:LEU:HB2	5:AD:134:TYR:HB3	2.02	0.41
5:AD:122:ILE:O	5:AD:128:VAL:HG13	2.21	0.41
7:AF:51:ILE:HD12	7:AF:52:ASN:HB2	2.02	0.41
8:AG:108:ARG:HG2	8:AG:118:ARG:NH2	2.36	0.41
20:AS:28:LYS:HB3	20:AS:29:PRO:CD	2.41	0.41
21:AT:68:LYS:O	21:AT:69:ASN:C	2.64	0.41
22:B0:44:A:H61	22:B0:433:C:H42	1.68	0.41
22:B0:110:G:O2'	22:B0:111:A:H5'	2.20	0.41
22:B0:396:G:H2'	22:B0:397:U:C6	2.55	0.41
22:B0:481:G:O2'	22:B0:506:G:N3	2.45	0.41
22:B0:597:G:N2	28:BC:96:VAL:C	2.78	0.41
22:B0:658:U:C2'	28:BC:98:LYS:HE2	2.51	0.41
22:B0:833:A:H4'	35:BJ:50:PHE:CZ	2.56	0.41
22:B0:870:U:C1'	36:BK:8:LYS:NZ	2.84	0.41
22:B0:906:U:H2'	22:B0:907:G:C4'	2.50	0.41
22:B0:969:G:O3'	22:B0:984:A:O2'	2.39	0.41
22:B0:1266:G:C2'	22:B0:1267:U:OP2	2.68	0.41
22:B0:1342:A:C4	22:B0:1397:U:O4'	2.74	0.41
22:B0:1412:G:H2'	22:B0:1413:U:H6	1.85	0.41
22:B0:1578:U:P	26:BA:101:ARG:HD2	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1579:A:N7	26:BA:65:ASP:O	2.53	0.41
22:B0:1605:C:H2'	22:B0:1606:C:O4'	2.19	0.41
22:B0:1747:U:H2'	22:B0:1748:C:C6	2.55	0.41
22:B0:1966:A:N3	22:B0:2593:U:H4'	2.34	0.41
22:B0:2115:G:N2	22:B0:2168:G:OP1	2.49	0.41
22:B0:2123:G:N3	22:B0:2123:G:C2'	2.83	0.41
22:B0:2126:A:N3	22:B0:2167:U:H5'	2.36	0.41
22:B0:2134:A:N7	22:B0:2135:A:O2'	2.54	0.41
22:B0:2243:U:C4'	22:B0:2244:U:OP1	2.69	0.41
22:B0:2360:G:H2'	22:B0:2361:G:C8	2.55	0.41
22:B0:2478:A:O2'	22:B0:2528:U:O3'	2.38	0.41
22:B0:2837:A:H2'	22:B0:2838:G:C8	2.55	0.41
22:B0:2894:U:H2'	33:BH:9:GLU:OE2	2.21	0.41
23:B9:89:U:O5'	23:B9:89:U:H6	2.03	0.41
24:B2:95:GLY:HA3	24:B2:99:LEU:CD2	2.51	0.41
25:B3:83:ALA:O	25:B3:84:LYS:C	2.64	0.41
29:BD:105:ILE:CD1	29:BD:138:PRO:HG3	2.49	0.41
32:BG:96:LYS:H	32:BG:96:LYS:CD	2.30	0.41
33:BH:100:VAL:C	33:BH:102:GLU:H	2.28	0.41
33:BH:104:ALA:O	33:BH:106:LYS:N	2.53	0.41
37:BL:94:TYR:H	37:BL:94:TYR:HD1	1.68	0.41
37:BL:102:PHE:CA	37:BL:109:PRO:HA	2.50	0.41
39:BN:46:VAL:O	39:BN:47:ILE:HD13	2.21	0.41
40:BO:40:LYS:HE2	40:BO:44:TYR:CB	2.50	0.41
40:BO:92:LYS:HA	40:BO:92:LYS:HE3	2.02	0.41
44:BT:73:LYS:HG3	44:BT:94:ALA:HB2	2.03	0.41
45:BU:67:LYS:H	45:BU:67:LYS:HD3	1.86	0.41
46:BW:20:ASN:O	46:BW:24:GLU:HB2	2.20	0.41
46:BW:26:PHE:C	46:BW:26:PHE:CD1	2.98	0.41
47:BX:47:ILE:CG2	47:BX:56:VAL:HG11	2.49	0.41
48:BZ:29:VAL:HA	48:BZ:47:TYR:OH	2.20	0.41
1:AA:19:A:H2'	1:AA:20:U:C6	2.55	0.41
1:AA:329:A:H2'	1:AA:329:A:N3	2.36	0.41
1:AA:362:G:H5''	13:AL:30:ARG:HD3	2.02	0.41
1:AA:647:C:H5''	18:AQ:82:VAL:HG11	2.03	0.41
1:AA:708:C:H2'	1:AA:709:U:C6	2.55	0.41
1:AA:1065:U:H2'	1:AA:1066:C:OP2	2.21	0.41
1:AA:1483:A:O2'	22:B0:1948:G:H1'	2.19	0.41
1:AA:1526:G:H2'	1:AA:1527:U:C6	2.56	0.41
2:AU:23:A:H2'	2:AU:24:G:C8	2.55	0.41
2:AV:29:A:O2'	2:AV:30:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:120:THR:HG23	4:AC:121:SER:N	2.36	0.41
4:AC:140:ALA:HB3	4:AC:148:ILE:HG13	2.01	0.41
8:AG:92:PRO:HA	8:AG:95:ARG:HG2	2.01	0.41
11:AJ:40:ILE:HD11	11:AJ:73:LEU:HD22	2.02	0.41
12:AK:28:ASN:HD21	12:AK:45:THR:HG22	1.84	0.41
15:AN:58:ARG:HG2	15:AN:58:ARG:HH11	1.85	0.41
17:AP:56:ARG:NH1	17:AP:60:TRP:NE1	2.69	0.41
20:AS:30:LEU:HG	20:AS:31:ARG:N	2.35	0.41
21:AT:47:GLN:O	21:AT:50:PHE:HB3	2.21	0.41
22:B0:224:U:O2'	22:B0:225:C:H5'	2.21	0.41
22:B0:402:A:O2'	22:B0:403:U:H5'	2.20	0.41
22:B0:588:U:H5'	28:BC:43:THR:CG2	2.50	0.41
22:B0:655:A:H4'	22:B0:656:G:C5'	2.49	0.41
22:B0:801:G:P	28:BC:57:LYS:HD3	2.61	0.41
22:B0:802:A:H4'	28:BC:54:GLY:O	2.20	0.41
22:B0:1197:G:N2	22:B0:1198:U:H1'	2.35	0.41
22:B0:1202:G:H8	35:BJ:14:LYS:HZ3	1.67	0.41
22:B0:1355:G:H2'	22:B0:1356:G:H8	1.86	0.41
22:B0:1410:G:H2'	22:B0:1411:U:C5	2.55	0.41
22:B0:1578:U:O2'	26:BA:65:ASP:O	2.26	0.41
22:B0:1662:U:O4	22:B0:1992:G:H3'	2.21	0.41
22:B0:1775:U:H2'	22:B0:1776:G:H5'	2.03	0.41
22:B0:1917:U:H2'	22:B0:1918:A:H8	1.86	0.41
22:B0:2055:C:O2	22:B0:2055:C:C2'	2.66	0.41
22:B0:2153:C:O2	22:B0:2153:C:H2'	2.21	0.41
22:B0:2558:C:H2'	22:B0:2559:C:H5'	2.02	0.41
22:B0:2595:G:H1'	22:B0:2597:G:N7	2.35	0.41
22:B0:2730:C:N3	27:BB:126:ASN:ND2	2.69	0.41
22:B0:2757:A:N3	22:B0:2757:A:H2'	2.35	0.41
22:B0:2894:U:OP2	33:BH:10:THR:N	2.54	0.41
24:B2:22:ILE:O	24:B2:26:ILE:HD13	2.21	0.41
24:B2:45:VAL:HG21	24:B2:195:LEU:HD21	2.02	0.41
24:B2:174:ILE:HD11	24:B2:184:LEU:O	2.21	0.41
25:B3:66:VAL:HG22	25:B3:70:LYS:HE3	2.03	0.41
25:B5:107:LYS:HE3	25:B5:117:VAL:O	2.21	0.41
26:BA:64:VAL:CG2	26:BA:150:GLY:HA2	2.51	0.41
26:BA:77:VAL:HA	26:BA:92:LEU:O	2.21	0.41
26:BA:154:ALA:HB2	26:BA:176:ARG:HD3	2.02	0.41
27:BB:164:GLN:HG3	27:BB:165:MET:N	2.36	0.41
28:BC:117:ARG:HH11	28:BC:185:LYS:HD2	1.85	0.41
30:BE:105:SER:C	30:BE:107:GLY:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:29:GLN:HA	32:BG:29:GLN:NE2	2.36	0.41
33:BH:96:ARG:HB3	33:BH:97:PRO:CA	2.51	0.41
33:BH:109:LEU:HD22	33:BH:109:LEU:H	1.86	0.41
34:BI:118:LEU:HD22	34:BI:118:LEU:N	2.35	0.41
38:BM:25:ARG:NH2	38:BM:40:ILE:HG21	2.35	0.41
40:BO:4:LYS:HZ3	40:BO:5:ARG:HB3	1.85	0.41
40:BO:53:LYS:HE3	40:BO:53:LYS:CA	2.43	0.41
41:BQ:45:VAL:O	41:BQ:47:VAL:N	2.47	0.41
41:BQ:96:ILE:C	41:BQ:98:LYS:H	2.28	0.41
44:BT:63:ILE:O	44:BT:69:GLU:HA	2.20	0.41
47:BX:8:GLN:NE2	47:BX:23:LEU:HD13	2.36	0.41
49:B1:13:SER:HA	49:B1:19:PHE:HD1	1.86	0.41
1:AA:89:U:H2'	1:AA:90:C:O4'	2.21	0.41
1:AA:160:A:H2'	1:AA:161:A:O4'	2.21	0.41
1:AA:754:C:O2	1:AA:754:C:H2'	2.21	0.41
1:AA:915:A:H2'	1:AA:916:U:C5'	2.51	0.41
1:AA:1064:G:C4'	1:AA:1065:U:H4'	2.43	0.41
1:AA:1201:A:H2'	1:AA:1202:U:OP2	2.21	0.41
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.55	0.41
2:AU:28:C:H2'	2:AU:29:A:H8	1.86	0.41
2:AV:16:U:C4'	2:AV:18:G:OP2	2.66	0.41
2:AW:66:A:H2'	2:AW:67:A:H8	1.84	0.41
4:AC:68:HIS:HD1	4:AC:103:ALA:HB3	1.85	0.41
5:AD:40:HIS:HB3	5:AD:43:ARG:CD	2.50	0.41
7:AF:8:PHE:CD1	7:AF:8:PHE:C	2.98	0.41
8:AG:30:MET:HE2	8:AG:35:LYS:HB2	2.03	0.41
12:AK:15:VAL:O	12:AK:17:ASP:N	2.53	0.41
12:AK:121:ARG:HG3	12:AK:121:ARG:NH1	2.36	0.41
14:AM:16:ILE:C	14:AM:18:LEU:N	2.78	0.41
15:AN:50:LEU:HD12	15:AN:50:LEU:N	2.36	0.41
18:AQ:49:ASN:O	18:AQ:50:ASN:C	2.64	0.41
19:AR:39:VAL:HB	19:AR:43:ILE:HG21	2.01	0.41
22:B0:19:A:P	40:BO:29:ARG:HG2	2.60	0.41
22:B0:605:G:H1	22:B0:623:C:H42	1.69	0.41
22:B0:897:C:H2'	22:B0:898:C:C6	2.56	0.41
22:B0:1491:A:OP2	26:BA:176:ARG:N	2.54	0.41
22:B0:1491:A:N3	26:BA:173:LEU:N	2.68	0.41
22:B0:1816:C:H4'	22:B0:1817:G:OP2	2.21	0.41
22:B0:2357:G:H4'	22:B0:2358:A:O5'	2.20	0.41
22:B0:2436:G:H21	22:B0:2597:G:N2	2.17	0.41
22:B0:2471:A:N6	22:B0:2476:A:O2'	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2639:A:C2	22:B0:2778:A:H1'	2.56	0.41
23:B9:42:C:C1'	29:BD:65:LEU:HD22	2.51	0.41
23:B9:66:A:O2'	23:B9:67:G:C8	2.72	0.41
25:B3:50:GLU:C	25:B5:47:ALA:CB	2.94	0.41
25:B5:68:VAL:HG22	25:B5:115:ALA:HB2	2.02	0.41
28:BC:32:VAL:HA	35:BJ:18:ARG:HG2	2.02	0.41
28:BC:105:LEU:HD13	28:BC:105:LEU:C	2.46	0.41
29:BD:105:ILE:C	29:BD:105:ILE:HD12	2.46	0.41
31:BF:82:SER:C	31:BF:149:GLU:HB3	2.45	0.41
32:BG:123:ALA:HA	32:BG:126:ARG:CG	2.51	0.41
33:BH:69:ARG:C	33:BH:89:PHE:HE1	2.28	0.41
35:BJ:54:GLN:NE2	35:BJ:57:LEU:N	2.67	0.41
40:BO:30:VAL:C	40:BO:33:VAL:HG22	2.46	0.41
42:BR:13:ALA:HA	42:BR:14:PRO:HD3	1.96	0.41
43:BS:62:ALA:HB3	43:BS:64:ILE:HD11	2.03	0.41
44:BT:28:ALA:O	44:BT:39:ALA:HA	2.20	0.41
44:BT:65:VAL:HG13	44:BT:65:VAL:O	2.21	0.41
44:BT:73:LYS:HZ2	44:BT:94:ALA:HB2	1.86	0.41
48:BZ:52:LYS:O	48:BZ:53:VAL:HB	2.20	0.41
1:AA:34:C:N4	1:AA:35:G:O6	2.54	0.41
1:AA:319:G:O2'	1:AA:320:A:H5'	2.21	0.41
1:AA:417:G:N2	1:AA:427:U:C2	2.89	0.41
1:AA:476:U:H2'	1:AA:477:C:C6	2.56	0.41
1:AA:592:G:H2'	1:AA:593:U:C6	2.55	0.41
1:AA:649:A:H2'	1:AA:650:G:H8	1.86	0.41
1:AA:689:C:O2'	1:AA:690:G:H5'	2.21	0.41
1:AA:931:C:H1'	1:AA:1387:G:N2	2.36	0.41
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.21	0.41
1:AA:1096:C:H1'	1:AA:1168:U:O2	2.21	0.41
1:AA:1180:A:C2'	1:AA:1181:G:H5'	2.51	0.41
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.86	0.41
1:AA:1256:A:C2'	1:AA:1257:A:OP2	2.68	0.41
1:AA:1293:C:H2'	1:AA:1294:G:H8	1.84	0.41
1:AA:1317:C:N4	20:AS:5:LYS:O	2.53	0.41
1:AA:1341:U:H2'	1:AA:1342:C:H6	1.86	0.41
1:AA:1371:G:H2'	1:AA:1372:U:C5	2.53	0.41
1:AA:1430:A:H2'	1:AA:1431:A:H8	1.86	0.41
2:AU:75:C:O5'	22:B0:2557:G:O5'	2.39	0.41
2:AW:40:C:H2'	2:AW:41:U:H6	1.86	0.41
3:AB:22:TRP:CZ3	3:AB:24:PRO:HA	2.56	0.41
3:AB:46:VAL:HA	3:AB:49:PHE:CD2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:123:GLY:O	3:AB:124:THR:C	2.63	0.41
4:AC:14:VAL:O	4:AC:15:LYS:HB2	2.20	0.41
4:AC:85:LYS:O	4:AC:89:VAL:HG22	2.21	0.41
5:AD:58:GLN:HG3	5:AD:62:ARG:HE	1.85	0.41
6:AE:91:SER:N	6:AE:129:SER:HB3	2.35	0.41
6:AE:123:LEU:HD13	6:AE:124:ALA:N	2.35	0.41
6:AE:154:ALA:O	9:AH:65:PHE:CE2	2.74	0.41
8:AG:36:SER:HA	10:AI:40:ARG:HD2	2.03	0.41
8:AG:78:ARG:O	8:AG:80:GLY:N	2.54	0.41
8:AG:144:ALA:C	8:AG:146:ALA:N	2.79	0.41
9:AH:79:ARG:HH11	9:AH:79:ARG:HG3	1.86	0.41
9:AH:109:VAL:HG13	9:AH:109:VAL:O	2.21	0.41
10:AI:57:VAL:C	10:AI:59:LYS:H	2.29	0.41
10:AI:115:VAL:C	10:AI:117:LEU:H	2.29	0.41
11:AJ:14:ASP:O	11:AJ:18:ILE:HG13	2.21	0.41
13:AL:43:LYS:N	13:AL:44:PRO:HD2	2.36	0.41
13:AL:65:TYR:O	13:AL:96:THR:HG22	2.20	0.41
15:AN:66:THR:HG23	15:AN:68:ARG:H	1.85	0.41
16:AO:45:HIS:C	16:AO:47:LYS:H	2.28	0.41
22:B0:71:A:H1'	22:B0:73:A:C6	2.56	0.41
22:B0:73:A:H3'	22:B0:73:A:OP1	2.21	0.41
22:B0:99:U:H5''	22:B0:100:U:O5'	2.21	0.41
22:B0:221:A:O2'	22:B0:222:A:O5'	2.36	0.41
22:B0:295:G:H22	22:B0:343:C:H1'	1.86	0.41
22:B0:403:U:H4'	22:B0:406:G:O4'	2.20	0.41
22:B0:412:A:OP2	22:B0:2406:A:OP2	2.38	0.41
22:B0:600:G:C6	28:BC:99:LYS:HE3	2.55	0.41
22:B0:629:G:H2'	22:B0:630:G:C8	2.56	0.41
22:B0:722:A:H2'	22:B0:723:C:C6	2.55	0.41
22:B0:758:C:H2'	22:B0:759:G:C8	2.56	0.41
22:B0:838:C:H42	22:B0:940:G:H22	1.68	0.41
22:B0:851:C:O2	22:B0:851:C:C2'	2.66	0.41
22:B0:924:G:H4'	45:BU:25:PHE:HE2	1.86	0.41
22:B0:931:U:H4'	22:B0:932:U:O4'	2.20	0.41
22:B0:974:G:O2'	22:B0:975:A:O4'	2.38	0.41
22:B0:1057:A:H61	22:B0:1081:U:H3	1.68	0.41
22:B0:1108:U:H2'	22:B0:1109:C:H6	1.86	0.41
22:B0:1165:A:H2'	22:B0:1166:G:C8	2.56	0.41
22:B0:1317:G:H2'	22:B0:1318:U:C6	2.56	0.41
22:B0:1417:U:H4'	22:B0:1588:A:O4'	2.20	0.41
22:B0:1456:G:H2'	22:B0:1457:G:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1479:G:H4'	22:B0:1559:U:H4'	2.03	0.41
22:B0:1489:U:C5'	26:BA:200:MET:SD	3.09	0.41
22:B0:1491:A:C5'	26:BA:153:LEU:HD21	2.45	0.41
22:B0:1492:G:C5	26:BA:153:LEU:HA	2.55	0.41
22:B0:1528:A:H8	22:B0:1528:A:O5'	2.04	0.41
22:B0:1669:A:N3	22:B0:1669:A:C2'	2.79	0.41
22:B0:1683:U:H2'	22:B0:1684:G:C8	2.55	0.41
22:B0:1817:G:H2'	22:B0:1818:U:O4'	2.21	0.41
22:B0:1833:C:O2	22:B0:1973:G:N1	2.53	0.41
22:B0:1991:U:C2'	22:B0:1992:G:H5'	2.50	0.41
22:B0:1996:C:P	27:BB:139:SER:HB2	2.61	0.41
22:B0:2115:G:O2'	22:B0:2171:A:N6	2.45	0.41
22:B0:2167:U:H6	22:B0:2168:G:H5''	1.86	0.41
22:B0:2217:G:O2'	22:B0:2223:G:H5'	2.21	0.41
22:B0:2241:A:H2	22:B0:2242:G:C5	2.39	0.41
22:B0:2251:G:H2'	22:B0:2252:G:O4'	2.20	0.41
22:B0:2395:C:H2'	22:B0:2396:G:C8	2.56	0.41
22:B0:2428:G:H4'	22:B0:2429:G:C2	2.55	0.41
22:B0:2478:A:C2'	22:B0:2529:G:C8	3.01	0.41
22:B0:2605:U:H2'	22:B0:2606:C:C6	2.56	0.41
22:B0:2623:G:H2'	22:B0:2624:G:H8	1.86	0.41
22:B0:2776:A:H4'	22:B0:2777:G:C5'	2.51	0.41
23:B9:84:G:C3'	23:B9:85:G:H5''	2.50	0.41
24:B2:161:ARG:N	24:B2:161:ARG:CD	2.84	0.41
25:B3:98:VAL:HG23	25:B3:103:ALA:HB2	2.03	0.41
25:B5:45:VAL:O	25:B5:46:GLU:C	2.64	0.41
26:BA:175:LEU:C	26:BA:177:SER:N	2.75	0.41
26:BA:245:THR:HG22	26:BA:247:TRP:H	1.84	0.41
27:BB:13:ARG:NH1	39:BN:10:GLU:HB3	2.34	0.41
27:BB:29:VAL:H	27:BB:186:LEU:HA	1.86	0.41
28:BC:30:GLN:C	28:BC:33:VAL:HG22	2.46	0.41
28:BC:30:GLN:CD	35:BJ:21:ARG:HA	2.46	0.41
28:BC:155:GLU:CG	28:BC:156:ASN:H	2.29	0.41
28:BC:176:ASP:HB2	28:BC:178:VAL:CG1	2.42	0.41
30:BE:106:LEU:HD21	30:BE:164:ALA:HB3	2.02	0.41
31:BF:99:ILE:HD12	31:BF:99:ILE:H	1.84	0.41
32:BG:20:SER:O	32:BG:23:VAL:C	2.64	0.41
32:BG:59:THR:HG22	32:BG:67:THR:HB	2.02	0.41
33:BH:55:ILE:HD13	33:BH:124:VAL:HA	2.03	0.41
34:BI:45:GLU:HA	34:BI:54:LYS:NZ	2.36	0.41
36:BK:108:VAL:O	36:BK:109:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:63:ARG:HE	37:BL:63:ARG:HB3	1.60	0.41
37:BL:112:TYR:CD1	37:BL:112:TYR:N	2.89	0.41
39:BN:47:ILE:CD1	39:BN:63:ILE:HG23	2.51	0.41
39:BN:49:ILE:HG21	39:BN:99:LEU:HD13	2.03	0.41
39:BN:63:ILE:CG1	39:BN:74:GLN:HG2	2.51	0.41
39:BN:99:LEU:HD23	39:BN:99:LEU:O	2.21	0.41
40:BO:14:LYS:O	40:BO:16:ILE:N	2.53	0.41
40:BO:27:ARG:HH21	40:BO:33:VAL:HG11	1.86	0.41
40:BO:94:LEU:HD22	40:BO:95:ALA:H	1.86	0.41
41:BQ:69:LEU:HD12	41:BQ:69:LEU:C	2.45	0.41
41:BQ:107:VAL:HG23	41:BQ:107:VAL:O	2.21	0.41
42:BR:43:ILE:HB	42:BR:60:THR:HG21	2.03	0.41
43:BS:13:LEU:HA	43:BS:18:LYS:HG3	2.02	0.41
44:BT:14:LYS:O	44:BT:18:ARG:HG3	2.21	0.41
44:BT:30:ILE:HG21	44:BT:72:VAL:HG11	2.03	0.41
44:BT:48:MET:O	44:BT:51:GLN:HG3	2.21	0.41
45:BU:70:VAL:CG2	45:BU:71:LYS:HD2	2.51	0.41
47:BX:8:GLN:NE2	47:BX:15:ARG:HH22	2.18	0.41
48:BZ:51:ARG:HH11	48:BZ:51:ARG:CG	2.33	0.41
1:AA:92:U:H2'	1:AA:93:U:C6	2.56	0.41
1:AA:154:U:H2'	1:AA:155:A:H8	1.86	0.41
1:AA:253:A:H2'	1:AA:254:G:H8	1.85	0.41
1:AA:270:A:H2'	1:AA:271:C:C6	2.56	0.41
1:AA:321:A:H2'	1:AA:322:C:C6	2.56	0.41
1:AA:400:C:H6	1:AA:400:C:O5'	2.04	0.41
1:AA:553:A:H2'	1:AA:554:A:C8	2.56	0.41
1:AA:563:A:N3	1:AA:563:A:C2'	2.84	0.41
1:AA:774:G:O2'	1:AA:775:G:H5'	2.21	0.41
1:AA:876:C:H2'	1:AA:877:G:C8	2.55	0.41
1:AA:935:A:H2'	1:AA:936:C:H6	1.85	0.41
1:AA:956:U:H2'	1:AA:957:U:C6	2.56	0.41
1:AA:982:U:H5''	1:AA:983:A:OP1	2.21	0.41
1:AA:1257:A:H4'	1:AA:1258:G:C5'	2.50	0.41
1:AA:1271:A:H4'	1:AA:1314:C:C5'	2.51	0.41
1:AA:1401:G:N2	1:AA:1402:C:H1'	2.36	0.41
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.21	0.41
2:AV:3:G:H4'	22:B0:2255:G:O2'	2.21	0.41
2:AV:20:G:H3'	2:AV:21:A:H5'	2.02	0.41
3:AB:30:ILE:CG2	3:AB:38:HIS:HB3	2.51	0.41
4:AC:126:ARG:NH1	4:AC:126:ARG:CB	2.84	0.41
5:AD:112:GLU:O	5:AD:116:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:1:MET:SD	7:AF:65:GLU:HG2	2.61	0.41
8:AG:151:ALA:C	8:AG:153:TYR:N	2.79	0.41
10:AI:9:GLY:HA2	10:AI:80:HIS:HD2	1.86	0.41
10:AI:18:VAL:HG21	10:AI:82:ILE:N	2.36	0.41
10:AI:53:LEU:HD12	10:AI:53:LEU:H	1.86	0.41
18:AQ:31:PRO:HG2	18:AQ:32:ILE:CD1	2.51	0.41
19:AR:11:ARG:HH11	19:AR:11:ARG:HG3	1.86	0.41
22:B0:185:G:H4'	22:B0:218:A:H4'	2.02	0.41
22:B0:371:A:OP1	22:B0:371:A:H3'	2.20	0.41
22:B0:441:U:O2'	22:B0:442:G:H5'	2.20	0.41
22:B0:481:G:N2	22:B0:506:G:H4'	2.24	0.41
22:B0:493:G:C8	41:BQ:10:ALA:CB	3.04	0.41
22:B0:753:A:O2'	22:B0:754:U:H5'	2.21	0.41
22:B0:866:A:H2'	22:B0:909:A:N1	2.35	0.41
22:B0:908:C:H2'	22:B0:909:A:C8	2.56	0.41
22:B0:909:A:H5''	36:BK:5:LYS:C	2.46	0.41
22:B0:964:C:H4'	22:B0:2273:A:H1'	2.03	0.41
22:B0:1046:A:O2'	25:B5:25:ALA:C	2.64	0.41
22:B0:1152:C:H2'	22:B0:1153:C:H6	1.82	0.41
22:B0:1400:U:H2'	22:B0:1401:G:C8	2.56	0.41
22:B0:1922:G:O2'	22:B0:1923:U:OP1	2.37	0.41
22:B0:1922:G:H2'	22:B0:1923:U:H6	1.85	0.41
22:B0:1931:U:C2'	22:B0:1932:A:H5''	2.43	0.41
22:B0:2161:C:C5'	22:B0:2162:G:OP1	2.68	0.41
22:B0:2162:G:N7	22:B0:2164:C:C2'	2.84	0.41
22:B0:2300:C:H2'	22:B0:2301:C:C6	2.56	0.41
22:B0:2558:C:O2'	22:B0:2559:C:H5'	2.21	0.41
22:B0:2644:G:O2'	22:B0:2645:G:O5'	2.39	0.41
22:B0:2786:U:C4	22:B0:2787:C:N4	2.89	0.41
24:B2:179:PHE:HB2	24:B2:184:LEU:HD21	2.02	0.41
26:BA:62:ARG:NE	26:BA:150:GLY:C	2.74	0.41
26:BA:73:ILE:HA	26:BA:74:PRO:HD3	1.68	0.41
26:BA:78:GLU:N	26:BA:92:LEU:O	2.54	0.41
26:BA:145:MET:O	26:BA:183:VAL:HG21	2.22	0.41
28:BC:102:ARG:O	28:BC:105:LEU:N	2.53	0.41
34:BI:29:HIS:O	34:BI:31:ARG:N	2.54	0.41
34:BI:59:LYS:HB2	34:BI:87:LEU:CD1	2.51	0.41
35:BJ:41:ARG:NH1	35:BJ:42:SER:N	2.69	0.41
36:BK:53:MET:O	36:BK:57:VAL:HG22	2.21	0.41
37:BL:83:LEU:H	37:BL:86:ARG:CD	2.25	0.41
39:BN:60:VAL:HG12	39:BN:61:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:73:PHE:CD1	39:BN:73:PHE:C	2.99	0.41
39:BN:87:ARG:HD3	39:BN:87:ARG:N	2.26	0.41
41:BQ:79:GLY:HA3	41:BQ:80:PRO:HA	1.95	0.41
42:BR:56:GLU:HG2	42:BR:86:THR:OG1	2.20	0.41
44:BT:60:VAL:O	44:BT:61:LEU:C	2.64	0.41
1:AA:109:A:N6	1:AA:326:G:O6	2.53	0.40
1:AA:291:U:H2'	1:AA:292:G:O4'	2.20	0.40
1:AA:346:G:H2'	1:AA:347:G:H5'	2.03	0.40
1:AA:509:A:HO2'	1:AA:510:A:P	2.44	0.40
1:AA:654:G:C2	1:AA:753:A:H1'	2.56	0.40
1:AA:805:C:H2'	1:AA:806:C:H6	1.85	0.40
1:AA:1065:U:O2'	1:AA:1066:C:C6	2.66	0.40
1:AA:1201:A:C2'	1:AA:1202:U:OP2	2.69	0.40
1:AA:1241:G:OP2	1:AA:1242:G:N7	2.54	0.40
1:AA:1285:A:O2'	1:AA:1286:U:P	2.79	0.40
1:AA:1317:C:C2	20:AS:8:PRO:CG	2.98	0.40
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.21	0.40
2:AW:38:A:C4	2:AW:39:U:O2	2.74	0.40
4:AC:27:GLU:OE2	4:AC:30:ASP:HB2	2.21	0.40
4:AC:148:ILE:HA	4:AC:200:TRP:O	2.21	0.40
6:AE:36:THR:HG21	6:AE:63:MET:N	2.36	0.40
7:AF:42:TRP:CE3	7:AF:61:LEU:HD11	2.56	0.40
12:AK:30:ILE:HD13	12:AK:31:VAL:N	2.35	0.40
13:AL:66:ILE:HA	13:AL:96:THR:HG22	2.03	0.40
16:AO:69:LEU:HD11	16:AO:76:ARG:HB3	2.01	0.40
17:AP:71:VAL:HG13	17:AP:72:ALA:N	2.36	0.40
22:B0:204:A:H4'	22:B0:205:G:H4'	2.02	0.40
22:B0:486:C:O2'	22:B0:487:C:H5'	2.21	0.40
22:B0:659:G:C4	28:BC:98:LYS:HD2	2.55	0.40
22:B0:669:G:P	28:BC:52:VAL:HB	2.61	0.40
22:B0:795:C:H2'	22:B0:796:C:C6	2.56	0.40
22:B0:800:A:C3'	22:B0:801:G:H5''	2.51	0.40
22:B0:838:C:N4	22:B0:941:A:C6	2.89	0.40
22:B0:1008:A:C5'	22:B0:1009:A:OP1	2.69	0.40
22:B0:1377:G:H8	22:B0:1377:G:O5'	2.05	0.40
22:B0:1491:A:O5'	26:BA:175:LEU:HA	2.21	0.40
22:B0:1710:G:H2'	22:B0:1711:A:H8	1.86	0.40
22:B0:1749:A:H2'	22:B0:1750:G:H8	1.86	0.40
22:B0:1804:C:H2'	22:B0:1805:A:H8	1.86	0.40
22:B0:1832:C:C3'	22:B0:1833:C:C5'	2.98	0.40
22:B0:2137:U:O2'	22:B0:2138:G:C5'	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2333:A:H5'	22:B0:2335:A:O4'	2.22	0.40
22:B0:2463:C:H2'	22:B0:2464:G:C8	2.56	0.40
22:B0:2842:G:H2'	22:B0:2843:G:C8	2.56	0.40
25:B3:15:SER:HA	25:B5:13:ALA:HB2	2.01	0.40
25:B3:85:ASP:C	25:B3:87:VAL:N	2.80	0.40
26:BA:83:ASP:OD2	26:BA:86:ARG:HB3	2.21	0.40
26:BA:104:LEU:HD12	26:BA:126:GLY:CA	2.50	0.40
26:BA:140:VAL:CG2	26:BA:161:VAL:HG22	2.51	0.40
26:BA:170:TYR:CD1	26:BA:171:VAL:N	2.89	0.40
26:BA:239:PHE:CD1	26:BA:239:PHE:N	2.89	0.40
28:BC:32:VAL:CA	35:BJ:17:LYS:HD3	2.51	0.40
28:BC:35:TYR:C	28:BC:37:ALA:N	2.76	0.40
28:BC:90:GLN:HB3	35:BJ:27:LEU:C	2.46	0.40
28:BC:94:GLN:O	28:BC:96:VAL:HG12	2.21	0.40
30:BE:142:GLN:HA	30:BE:142:GLN:NE2	2.35	0.40
33:BH:106:LYS:CD	33:BH:116:ARG:HH12	2.34	0.40
33:BH:111:LYS:HA	33:BH:111:LYS:HZ2	1.81	0.40
36:BK:4:PRO:O	36:BK:5:LYS:C	2.62	0.40
36:BK:69:PRO:HB2	36:BK:92:TRP:HB3	2.03	0.40
37:BL:45:ARG:HA	37:BL:45:ARG:NE	2.36	0.40
37:BL:96:ARG:H	37:BL:96:ARG:CD	2.34	0.40
39:BN:30:TRP:CG	39:BN:83:ILE:HG22	2.57	0.40
42:BR:56:GLU:HG2	42:BR:57:VAL:HG22	2.04	0.40
1:AA:67:C:H2'	1:AA:68:G:C8	2.56	0.40
1:AA:121:U:H4'	1:AA:122:G:N7	2.36	0.40
1:AA:339:C:OP1	34:BI:13:ASN:CB	2.69	0.40
1:AA:437:U:OP2	1:AA:438:U:OP2	2.39	0.40
1:AA:662:U:H2'	1:AA:663:A:C8	2.56	0.40
1:AA:780:A:H5''	12:AK:124:LYS:CE	2.46	0.40
1:AA:888:G:OP2	1:AA:890:G:OP2	2.39	0.40
1:AA:953:G:H2'	1:AA:954:G:O4'	2.21	0.40
1:AA:1238:A:H1'	1:AA:1241:G:H22	1.85	0.40
1:AA:1489:G:H2'	1:AA:1490:U:C6	2.57	0.40
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.86	0.40
2:AW:16:U:C4'	2:AW:18:G:OP2	2.69	0.40
4:AC:20:THR:HG23	4:AC:57:GLU:HG2	2.02	0.40
4:AC:130:ARG:HD2	6:AE:53:ARG:HD3	2.03	0.40
5:AD:13:ARG:HG3	5:AD:55:ARG:NH2	2.36	0.40
7:AF:49:TYR:HA	7:AF:50:PRO:HD3	1.96	0.40
8:AG:30:MET:O	8:AG:30:MET:HG2	2.21	0.40
11:AJ:92:LEU:O	11:AJ:93:ALA:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:23:LEU:HD22	13:AL:23:LEU:N	2.36	0.40
13:AL:79:ILE:HA	13:AL:101:LEU:HD12	2.03	0.40
14:AM:91:ARG:HH22	20:AS:87:LYS:HB3	1.87	0.40
15:AN:86:ALA:O	15:AN:91:GLU:HG2	2.21	0.40
15:AN:99:SER:OG	15:AN:100:TRP:N	2.55	0.40
20:AS:38:THR:HB	20:AS:40:PHE:CE1	2.57	0.40
22:B0:959:A:C1'	36:BK:80:VAL:HG12	2.51	0.40
22:B0:1017:G:H2'	22:B0:1018:U:C6	2.57	0.40
22:B0:1084:A:O2'	22:B0:1085:A:H5'	2.21	0.40
22:B0:1197:G:H5'	22:B0:1227:G:O3'	2.20	0.40
22:B0:1244:A:H2'	22:B0:1245:G:O4'	2.21	0.40
22:B0:1276:A:O2'	22:B0:1277:G:H5'	2.22	0.40
22:B0:1312:U:H4'	22:B0:1313:U:H5''	2.02	0.40
22:B0:1332:G:H5''	22:B0:1333:G:OP2	2.22	0.40
22:B0:1454:A:H3'	22:B0:1455:U:C4'	2.50	0.40
22:B0:1494:A:OP1	26:BA:161:VAL:HG11	2.21	0.40
22:B0:1496:A:P	26:BA:190:THR:HG23	2.61	0.40
22:B0:1496:A:O3'	26:BA:104:LEU:HD23	2.21	0.40
22:B0:2115:G:H5''	22:B0:2168:G:O2'	2.21	0.40
22:B0:2145:C:OP1	22:B0:2145:C:H4'	2.21	0.40
22:B0:2329:U:H2'	22:B0:2330:G:H8	1.85	0.40
22:B0:2866:U:H1'	22:B0:2868:A:O4'	2.21	0.40
24:B2:59:ARG:HG3	24:B2:163:ARG:HG2	2.03	0.40
24:B2:129:VAL:HG23	24:B2:130:LEU:HG	2.03	0.40
26:BA:75:ALA:O	26:BA:115:ILE:N	2.47	0.40
26:BA:80:LEU:HD11	26:BA:89:ASN:HB2	2.03	0.40
26:BA:183:VAL:O	26:BA:184:GLU:C	2.64	0.40
27:BB:155:VAL:O	27:BB:155:VAL:HG13	2.21	0.40
28:BC:93:SER:OG	28:BC:94:GLN:N	2.54	0.40
32:BG:29:GLN:HA	32:BG:29:GLN:HE21	1.85	0.40
34:BI:64:ARG:HD2	34:BI:79:PHE:CD2	2.56	0.40
35:BJ:118:THR:OG1	35:BJ:120:VAL:N	2.46	0.40
36:BK:45:GLN:OE1	36:BK:125:PRO:HD3	2.21	0.40
36:BK:76:LYS:N	36:BK:76:LYS:HD3	2.37	0.40
40:BO:78:PHE:CE1	40:BO:79:ILE:HB	2.56	0.40
41:BQ:15:GLN:HA	41:BQ:15:GLN:NE2	2.36	0.40
41:BQ:98:LYS:HD3	41:BQ:98:LYS:C	2.46	0.40
42:BR:16:VAL:CG1	42:BR:17:SER:H	2.12	0.40
42:BR:40:LYS:N	42:BR:40:LYS:HD2	2.36	0.40
43:BS:12:VAL:HG12	43:BS:13:LEU:N	2.35	0.40
45:BU:68:PHE:O	45:BU:70:VAL:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:27:ASN:N	46:BW:27:ASN:HD22	2.18	0.40
49:B1:36:LYS:O	49:B1:38:PHE:HD1	2.03	0.40
1:AA:22:G:O2'	1:AA:23:C:H5'	2.21	0.40
1:AA:258:G:H2'	1:AA:259:G:H8	1.86	0.40
1:AA:296:U:H2'	1:AA:297:G:C8	2.57	0.40
1:AA:312:C:H2'	1:AA:313:A:C8	2.57	0.40
1:AA:483:C:H5''	1:AA:484:G:C3'	2.51	0.40
1:AA:716:A:N3	12:AK:119:GLY:HA3	2.36	0.40
1:AA:824:G:H2'	1:AA:825:A:H8	1.84	0.40
1:AA:868:C:H2'	1:AA:869:G:O4'	2.22	0.40
1:AA:981:U:C4	1:AA:982:U:C4	3.10	0.40
1:AA:1003:G:C6	1:AA:1039:G:N2	2.89	0.40
1:AA:1224:U:N3	1:AA:1322:C:N4	2.68	0.40
1:AA:1413:A:H2'	1:AA:1414:U:H6	1.86	0.40
1:AA:1504:G:H5''	1:AA:1505:G:H5'	2.04	0.40
2:AU:75:C:C5'	22:B0:2557:G:OP2	2.69	0.40
2:AV:50:U:H2'	2:AV:51:G:C8	2.56	0.40
2:AV:52:U:H2'	2:AV:53:G:C8	2.55	0.40
3:AB:69:VAL:HG12	3:AB:168:GLU:HG2	2.02	0.40
4:AC:113:LYS:HD2	4:AC:184:ASN:HA	2.03	0.40
5:AD:53:GLN:HG3	5:AD:198:LEU:O	2.22	0.40
5:AD:57:LYS:CB	5:AD:199:ILE:HG13	2.51	0.40
5:AD:106:PHE:CE1	5:AD:158:LEU:HD11	2.56	0.40
5:AD:200:VAL:HG23	5:AD:201:GLU:N	2.37	0.40
8:AG:35:LYS:O	8:AG:39:GLU:HG2	2.22	0.40
10:AI:11:ARG:NE	10:AI:12:LYS:HG3	2.37	0.40
10:AI:24:ASN:C	10:AI:24:ASN:HD22	2.29	0.40
11:AJ:48:ARG:NE	11:AJ:66:GLU:OE1	2.54	0.40
12:AK:13:LYS:HZ1	12:AK:15:VAL:HG22	1.86	0.40
14:AM:92:ARG:HA	14:AM:92:ARG:NE	2.36	0.40
16:AO:67:ASP:O	16:AO:71:ARG:HB2	2.22	0.40
18:AQ:24:ILE:HG12	18:AQ:41:THR:O	2.22	0.40
22:B0:301:G:O5'	22:B0:302:C:OP1	2.38	0.40
22:B0:308:G:O6	22:B0:501:A:H1'	2.21	0.40
22:B0:482:A:N3	22:B0:498:G:N2	2.65	0.40
22:B0:493:G:N7	41:BQ:9:HIS:HB2	2.36	0.40
22:B0:874:G:H2'	22:B0:875:G:C8	2.56	0.40
22:B0:902:C:H2'	22:B0:903:C:C6	2.57	0.40
22:B0:962:G:C1'	22:B0:2497:A:OP2	2.67	0.40
22:B0:1080:A:C5'	32:BG:130:GLY:HA3	2.50	0.40
22:B0:1221:C:H2'	22:B0:1222:U:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1238:G:O2'	22:B0:1239:G:H5'	2.20	0.40
22:B0:1495:A:H3'	26:BA:190:THR:C	2.45	0.40
22:B0:1495:A:OP1	26:BA:190:THR:C	2.65	0.40
22:B0:1497:U:H2'	26:BA:61:TYR:CD2	2.57	0.40
22:B0:1499:U:N3	26:BA:155:ARG:HB3	2.37	0.40
22:B0:1579:A:C5'	26:BA:66:PHE:H	2.34	0.40
22:B0:1766:G:N2	22:B0:1986:C:O2	2.51	0.40
22:B0:1953:A:H2	22:B0:2549:G:N2	2.19	0.40
22:B0:2124:G:OP1	24:B2:104:LYS:HD2	2.21	0.40
22:B0:2164:C:C4'	22:B0:2165:C:C1'	2.76	0.40
22:B0:2167:U:H5	22:B0:2168:G:H3'	1.86	0.40
22:B0:2215:C:O2'	22:B0:2216:G:H5'	2.20	0.40
22:B0:2582:G:N3	22:B0:2582:G:C2'	2.80	0.40
22:B0:2648:G:H2'	22:B0:2649:C:C6	2.57	0.40
22:B0:2678:C:P	27:BB:124:ARG:HB3	2.61	0.40
22:B0:2678:C:C6	27:BB:125:TRP:HA	2.56	0.40
22:B0:2690:U:C1'	22:B0:2873:A:N6	2.85	0.40
23:B9:16:G:H2'	23:B9:17:C:H5'	2.03	0.40
24:B2:20:TYR:CD1	24:B2:20:TYR:N	2.89	0.40
24:B2:26:ILE:HD12	24:B2:26:ILE:H	1.86	0.40
24:B2:38:VAL:CG2	24:B2:176:LYS:HB3	2.52	0.40
28:BC:67:ARG:HH11	28:BC:67:ARG:HG3	1.85	0.40
28:BC:122:GLU:HG3	28:BC:123:LYS:N	2.36	0.40
29:BD:111:ARG:NH2	29:BD:134:GLN:HG3	2.14	0.40
30:BE:37:ASN:C	30:BE:37:ASN:HD22	2.28	0.40
32:BG:7:TYR:CD1	32:BG:7:TYR:N	2.89	0.40
33:BH:36:LEU:HD12	33:BH:51:GLY:CA	2.41	0.40
36:BK:32:GLY:HA3	36:BK:101:VAL:CG2	2.51	0.40
37:BL:26:GLY:C	37:BL:29:VAL:HG12	2.47	0.40
37:BL:99:LYS:NZ	37:BL:99:LYS:CB	2.85	0.40
38:BM:76:LYS:O	38:BM:80:GLU:HB2	2.20	0.40
40:BO:91:ARG:HH11	40:BO:95:ALA:HB3	1.86	0.40
40:BO:101:ASP:C	40:BO:103:VAL:H	2.29	0.40
41:BQ:12:SER:CB	41:BQ:17:VAL:HG21	2.38	0.40
42:BR:8:LEU:C	46:BW:29:ARG:HD2	2.45	0.40
42:BR:8:LEU:HG	46:BW:26:PHE:CD2	2.56	0.40
1:AA:142:G:O2'	1:AA:196:A:N1	2.47	0.40
1:AA:187:G:H2'	1:AA:188:C:O4'	2.21	0.40
1:AA:359:G:O2'	1:AA:360:G:H5'	2.22	0.40
1:AA:502:A:H2'	1:AA:503:C:C6	2.56	0.40
1:AA:701:U:H5''	1:AA:703:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1093:A:H61	1:AA:1171:A:H4'	1.86	0.40
1:AA:1386:G:O2'	10:AI:129:ARG:CD	2.69	0.40
2:AU:16:U:C4'	2:AU:18:G:OP2	2.62	0.40
2:AU:18:G:C1'	2:AU:57:G:H22	2.33	0.40
2:AW:14:A:H2'	2:AW:15:G:O4'	2.21	0.40
2:AW:23:A:H2'	2:AW:24:G:C8	2.56	0.40
3:AB:169:HIS:CE1	3:AB:173:LYS:HD3	2.55	0.40
3:AB:186:VAL:HG21	3:AB:190:SER:CB	2.51	0.40
4:AC:21:TRP:CD1	4:AC:21:TRP:N	2.90	0.40
4:AC:195:ILE:HD12	4:AC:196:GLY:H	1.87	0.40
5:AD:120:LYS:O	5:AD:145:ARG:HG3	2.22	0.40
6:AE:29:ILE:HG23	6:AE:29:ILE:O	2.22	0.40
9:AH:10:LEU:CG	9:AH:74:ILE:HG12	2.52	0.40
9:AH:51:GLU:HG3	9:AH:52:GLY:H	1.86	0.40
9:AH:78:SER:HB2	9:AH:84:ILE:HG12	2.03	0.40
11:AJ:52:LEU:HA	11:AJ:62:ARG:HA	2.03	0.40
13:AL:30:ARG:O	13:AL:56:LEU:HA	2.22	0.40
13:AL:49:ARG:HH11	13:AL:49:ARG:HG3	1.86	0.40
14:AM:55:LEU:O	14:AM:59:VAL:HG23	2.22	0.40
18:AQ:22:VAL:HG11	18:AQ:60:ILE:CD1	2.51	0.40
22:B0:118:A:H8	22:B0:119:A:C8	2.39	0.40
22:B0:242:G:H2'	22:B0:243:U:OP2	2.21	0.40
22:B0:276:U:H4'	22:B0:278:A:OP1	2.20	0.40
22:B0:618:G:C2'	22:B0:619:G:H5'	2.51	0.40
22:B0:719:C:H2'	22:B0:720:U:C6	2.57	0.40
22:B0:723:C:H2'	22:B0:724:U:C6	2.56	0.40
22:B0:764:A:O2'	22:B0:765:C:P	2.79	0.40
22:B0:906:U:C2	22:B0:907:G:H1'	2.56	0.40
22:B0:1043:C:C3'	22:B0:1044:C:H5''	2.51	0.40
22:B0:1358:G:H2'	22:B0:1359:A:C8	2.56	0.40
22:B0:1422:G:H1'	26:BA:149:LYS:HE2	2.02	0.40
22:B0:1562:U:H2'	22:B0:1563:U:C6	2.56	0.40
22:B0:1580:A:C2'	22:B0:1581:A:C5'	2.99	0.40
22:B0:1693:U:C5'	22:B0:1694:C:OP2	2.59	0.40
22:B0:1966:A:O2'	22:B0:2593:U:H5''	2.22	0.40
22:B0:2032:G:O6	22:B0:2571:U:H4'	2.21	0.40
22:B0:2117:A:O3'	22:B0:2118:U:O4'	2.39	0.40
22:B0:2354:C:C4'	45:BU:20:LEU:HD13	2.44	0.40
22:B0:2439:A:N3	22:B0:2439:A:H2'	2.36	0.40
22:B0:2711:A:H2'	22:B0:2714:G:H4'	2.03	0.40
22:B0:2738:A:H61	22:B0:2766:A:H61	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:88:C:H2'	23:B9:89:U:C6	2.57	0.40
25:B5:33:SER:C	25:B5:35:ALA:H	2.29	0.40
26:BA:167:ASP:OD2	26:BA:169:ALA:HB3	2.21	0.40
26:BA:221:GLY:C	26:BA:223:ALA:H	2.29	0.40
27:BB:105:LYS:O	27:BB:177:VAL:HG23	2.22	0.40
28:BC:29:HIS:O	28:BC:32:VAL:HG12	2.21	0.40
28:BC:32:VAL:C	35:BJ:18:ARG:HG2	2.47	0.40
29:BD:155:ILE:HG23	29:BD:155:ILE:O	2.22	0.40
31:BF:46:PHE:CD1	31:BF:46:PHE:C	2.99	0.40
33:BH:56:VAL:HG21	33:BH:101:ILE:HD13	2.03	0.40
34:BI:31:ARG:O	34:BI:32:TYR:HB2	2.21	0.40
36:BK:5:LYS:HD3	36:BK:5:LYS:N	2.23	0.40
36:BK:124:LEU:HG	36:BK:126:ILE:HG22	2.03	0.40
40:BO:57:ARG:HG2	40:BO:57:ARG:NH1	2.35	0.40
40:BO:103:VAL:O	40:BO:104:ALA:HB3	2.22	0.40
43:BS:34:ILE:HG23	43:BS:34:ILE:O	2.21	0.40
1:AA:110:C:H2'	1:AA:111:G:O4'	2.22	0.40
1:AA:434:U:C2	1:AA:435:A:N7	2.89	0.40
1:AA:886:G:H2'	1:AA:887:G:O4'	2.21	0.40
1:AA:1247:U:O2	1:AA:1290:G:O6	2.40	0.40
1:AA:1381:U:N3	8:AG:78:ARG:NH1	2.70	0.40
3:AB:17:HIS:O	3:AB:18:GLN:HB2	2.21	0.40
3:AB:56:LEU:CD2	3:AB:216:VAL:HG23	2.51	0.40
4:AC:54:ILE:HD13	4:AC:54:ILE:H	1.82	0.40
4:AC:128:MET:CE	6:AE:54:GLU:HG2	2.52	0.40
6:AE:92:ARG:HD2	6:AE:127:TYR:CB	2.50	0.40
7:AF:9:MET:O	7:AF:84:VAL:HG23	2.21	0.40
7:AF:10:VAL:CG1	7:AF:58:HIS:HB3	2.49	0.40
7:AF:38:ARG:HH11	7:AF:38:ARG:HG2	1.87	0.40
11:AJ:23:ALA:O	11:AJ:27:GLU:HG3	2.21	0.40
11:AJ:24:GLU:CD	11:AJ:24:GLU:C	2.90	0.40
14:AM:21:ILE:C	14:AM:23:GLY:N	2.77	0.40
16:AO:39:GLN:HA	16:AO:42:PHE:CD2	2.53	0.40
16:AO:52:ARG:NH1	22:B0:716:A:O2'	2.54	0.40
22:B0:109:C:H2'	22:B0:110:G:C8	2.52	0.40
22:B0:265:A:C4'	22:B0:266:G:OP1	2.63	0.40
22:B0:603:A:H2	22:B0:625:G:HO2'	1.64	0.40
22:B0:606:U:H4'	22:B0:658:U:O2'	2.22	0.40
22:B0:793:A:H2'	22:B0:794:A:OP2	2.21	0.40
22:B0:962:G:O2'	22:B0:963:U:H5'	2.22	0.40
22:B0:1011:G:HO2'	22:B0:1012:U:P	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1424:G:H2'	22:B0:1425:G:H5'	2.04	0.40
22:B0:1627:G:H2'	22:B0:1627:G:N3	2.37	0.40
22:B0:2031:A:N6	22:B0:2455:G:H4'	2.35	0.40
22:B0:2092:U:OP1	22:B0:2198:A:C2	2.74	0.40
22:B0:2102:G:H2'	22:B0:2103:C:C6	2.56	0.40
22:B0:2123:G:C4'	22:B0:2124:G:C4'	2.98	0.40
22:B0:2343:U:H2'	22:B0:2344:U:O4'	2.20	0.40
22:B0:2365:G:H5'	45:BU:37:VAL:HG23	2.02	0.40
22:B0:2446:G:N2	22:B0:2449:U:C4	2.89	0.40
22:B0:2841:C:H2'	22:B0:2842:G:H8	1.86	0.40
22:B0:2899:A:N6	33:BH:137:PRO:HD2	2.36	0.40
24:B2:76:VAL:CG1	24:B2:94:VAL:HG22	2.51	0.40
25:B3:54:PHE:HD2	25:B3:119:VAL:HG12	1.87	0.40
25:B3:88:GLU:C	25:B3:90:ALA:H	2.29	0.40
26:BA:79:ARG:HG2	26:BA:80:LEU:N	2.36	0.40
28:BC:56:GLY:O	28:BC:57:LYS:CB	2.70	0.40
29:BD:48:LEU:HA	29:BD:51:ASN:CG	2.46	0.40
29:BD:111:ARG:HH11	29:BD:111:ARG:HG3	1.86	0.40
29:BD:153:ILE:O	29:BD:153:ILE:HG12	2.21	0.40
32:BG:121:ILE:O	32:BG:125:THR:HG23	2.21	0.40
33:BH:39:LYS:CG	33:BH:40:HIS:N	2.82	0.40
34:BI:24:VAL:CA	34:BI:39:ILE:HG22	2.48	0.40
34:BI:49:ARG:HG3	34:BI:49:ARG:NH1	2.36	0.40
37:BL:80:PHE:N	37:BL:80:PHE:CD1	2.89	0.40
39:BN:10:GLU:CG	39:BN:11:GLN:N	2.67	0.40
40:BO:5:ARG:CG	40:BO:9:ALA:HB3	2.51	0.40
41:BQ:49:LYS:NZ	41:BQ:49:LYS:CA	2.82	0.40
42:BR:74:ILE:HD12	42:BR:76:ARG:CZ	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AB	230/236 (98%)	193 (84%)	28 (12%)	9 (4%)	2	19
4	AC	204/206 (99%)	160 (78%)	34 (17%)	10 (5%)	1	16
5	AD	202/204 (99%)	177 (88%)	22 (11%)	3 (2%)	8	40
6	AE	146/148 (99%)	135 (92%)	10 (7%)	1 (1%)	18	56
7	AF	93/95 (98%)	81 (87%)	10 (11%)	2 (2%)	5	29
8	AG	135/137 (98%)	114 (84%)	13 (10%)	8 (6%)	1	13
9	AH	125/127 (98%)	113 (90%)	9 (7%)	3 (2%)	4	27
10	AI	124/126 (98%)	93 (75%)	20 (16%)	11 (9%)	0	8
11	AJ	94/96 (98%)	73 (78%)	15 (16%)	6 (6%)	1	12
12	AK	114/116 (98%)	91 (80%)	14 (12%)	9 (8%)	1	10
13	AL	99/101 (98%)	75 (76%)	19 (19%)	5 (5%)	1	15
14	AM	111/115 (96%)	90 (81%)	18 (16%)	3 (3%)	4	25
15	AN	59/61 (97%)	50 (85%)	5 (8%)	4 (7%)	1	11
16	AO	84/86 (98%)	76 (90%)	8 (10%)	0	100	100
17	AP	76/78 (97%)	62 (82%)	13 (17%)	1 (1%)	9	42
18	AQ	77/79 (98%)	65 (84%)	10 (13%)	2 (3%)	4	25
19	AR	67/69 (97%)	62 (92%)	5 (8%)	0	100	100
20	AS	85/87 (98%)	69 (81%)	12 (14%)	4 (5%)	2	16
21	AT	81/83 (98%)	68 (84%)	11 (14%)	2 (2%)	4	26
24	B2	216/222 (97%)	183 (85%)	27 (12%)	6 (3%)	4	24
25	B3	108/119 (91%)	84 (78%)	18 (17%)	6 (6%)	1	14
25	B5	112/119 (94%)	89 (80%)	16 (14%)	7 (6%)	1	13
26	BA	215/227 (95%)	128 (60%)	56 (26%)	31 (14%)	0	3
27	BB	199/209 (95%)	148 (74%)	37 (19%)	14 (7%)	1	11
28	BC	194/198 (98%)	124 (64%)	45 (23%)	25 (13%)	0	4
29	BD	173/177 (98%)	96 (56%)	54 (31%)	23 (13%)	0	4
30	BE	165/167 (99%)	141 (86%)	22 (13%)	2 (1%)	10	44
31	BF	143/149 (96%)	121 (85%)	16 (11%)	6 (4%)	2	17
32	BG	135/139 (97%)	85 (63%)	33 (24%)	17 (13%)	0	4
33	BH	140/142 (99%)	77 (55%)	41 (29%)	22 (16%)	0	3
34	BI	120/122 (98%)	93 (78%)	20 (17%)	7 (6%)	1	14
35	BJ	136/140 (97%)	69 (51%)	37 (27%)	30 (22%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	BK	129/131 (98%)	93 (72%)	24 (19%)	12 (9%)	0	8
37	BL	110/114 (96%)	67 (61%)	32 (29%)	11 (10%)	0	7
38	BM	111/113 (98%)	90 (81%)	16 (14%)	5 (4%)	2	17
39	BN	112/114 (98%)	50 (45%)	35 (31%)	27 (24%)	0	1
40	BO	111/115 (96%)	59 (53%)	39 (35%)	13 (12%)	0	4
41	BQ	104/106 (98%)	68 (65%)	29 (28%)	7 (7%)	1	12
42	BR	83/92 (90%)	39 (47%)	25 (30%)	19 (23%)	0	1
43	BS	95/99 (96%)	69 (73%)	21 (22%)	5 (5%)	1	15
44	BT	92/94 (98%)	76 (83%)	13 (14%)	3 (3%)	3	21
45	BU	82/84 (98%)	43 (52%)	23 (28%)	16 (20%)	0	2
46	BW	58/60 (97%)	49 (84%)	5 (9%)	4 (7%)	1	11
47	BX	54/56 (96%)	51 (94%)	3 (6%)	0	100	100
48	BZ	27/29 (93%)	11 (41%)	6 (22%)	10 (37%)	0	0
49	B1	50/52 (96%)	27 (54%)	19 (38%)	4 (8%)	1	9
All	All	5480/5639 (97%)	4077 (74%)	988 (18%)	415 (8%)	1	10

All (415) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AB	14	HIS
3	AB	93	HIS
4	AC	126	ARG
4	AC	178	ARG
8	AG	31	VAL
8	AG	33	GLY
8	AG	79	VAL
10	AI	8	THR
10	AI	57	VAL
11	AJ	36	VAL
11	AJ	57	VAL
12	AK	118	ASN
15	AN	70	HIS
20	AS	82	HIS
21	AT	68	LYS
24	B2	37	PHE
24	B2	169	ILE
24	B2	219	ALA

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Mol	Chain	Res	Type
25	B3	93	ALA
25	B5	46	GLU
26	BA	44	ASN
26	BA	71	ASP
26	BA	97	ASP
26	BA	99	GLU
26	BA	100	ARG
26	BA	106	PRO
26	BA	149	LYS
26	BA	156	SER
26	BA	174	ARG
26	BA	184	GLU
26	BA	242	HIS
27	BB	82	PHE
27	BB	126	ASN
27	BB	138	LEU
27	BB	149	ASN
28	BC	44	ARG
28	BC	46	GLN
28	BC	49	ARG
28	BC	86	ALA
28	BC	88	ARG
28	BC	92	HIS
28	BC	155	GLU
28	BC	160	ALA
28	BC	178	VAL
28	BC	186	VAL
29	BD	8	LYS
29	BD	16	MET
29	BD	127	TYR
29	BD	144	LYS
31	BF	77	THR
32	BG	47	SER
32	BG	65	SER
32	BG	75	ALA
32	BG	137	LEU
33	BH	15	TRP
33	BH	17	VAL
33	BH	36	LEU
33	BH	39	LYS
33	BH	96	ARG
33	BH	113	PRO

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Mol	Chain	Res	Type
33	BH	128	ASN
33	BH	137	PRO
34	BI	52	VAL
35	BJ	39	LYS
35	BJ	46	VAL
35	BJ	60	ARG
35	BJ	90	VAL
35	BJ	94	THR
35	BJ	112	LEU
36	BK	78	LEU
36	BK	79	ALA
36	BK	80	VAL
36	BK	81	ARG
36	BK	109	PRO
37	BL	40	LYS
37	BL	88	ALA
37	BL	113	ILE
39	BN	21	PRO
39	BN	32	VAL
39	BN	56	SER
39	BN	60	VAL
39	BN	70	GLU
39	BN	72	VAL
39	BN	73	PHE
39	BN	91	VAL
39	BN	94	ALA
39	BN	95	LYS
39	BN	100	ARG
40	BO	19	GLN
40	BO	23	TYR
40	BO	46	TYR
40	BO	75	TYR
41	BQ	9	HIS
41	BQ	12	SER
42	BR	19	LYS
42	BR	67	VAL
42	BR	96	VAL
45	BU	8	SER
45	BU	11	ASN
45	BU	58	LEU
45	BU	59	PHE
45	BU	78	PHE

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Mol	Chain	Res	Type
45	BU	81	ILE
46	BW	28	LEU
46	BW	29	ARG
46	BW	34	SER
48	BZ	30	ASP
48	BZ	49	ARG
49	B1	34	GLU
49	B1	42	VAL
3	AB	15	PHE
3	AB	39	ILE
4	AC	49	ALA
4	AC	59	PRO
4	AC	125	ARG
6	AE	20	VAL
7	AF	51	ILE
8	AG	130	LYS
9	AH	47	ASP
9	AH	74	ILE
10	AI	11	ARG
11	AJ	61	ALA
12	AK	52	ARG
13	AL	112	ALA
14	AM	6	ILE
15	AN	52	ARG
17	AP	10	GLY
18	AQ	82	VAL
21	AT	69	ASN
24	B2	51	ALA
24	B2	167	ASN
25	B3	14	MET
25	B3	16	VAL
25	B3	45	VAL
25	B5	93	ALA
26	BA	72	GLY
26	BA	93	VAL
26	BA	96	LYS
26	BA	177	SER
26	BA	194	VAL
26	BA	241	LYS
27	BB	91	THR
28	BC	32	VAL
28	BC	57	LYS

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Mol	Chain	Res	Type
28	BC	60	TRP
28	BC	90	GLN
28	BC	95	LYS
28	BC	181	ILE
29	BD	31	GLU
29	BD	71	LYS
29	BD	93	GLU
29	BD	109	ARG
29	BD	120	SER
29	BD	176	PHE
32	BG	84	GLY
32	BG	93	ASN
33	BH	18	VAL
33	BH	23	LYS
33	BH	47	HIS
33	BH	51	GLY
33	BH	112	GLY
33	BH	114	LEU
34	BI	80	ASP
34	BI	91	SER
35	BJ	12	SER
35	BJ	22	GLY
35	BJ	37	GLY
35	BJ	38	GLN
35	BJ	93	ASN
35	BJ	105	ILE
35	BJ	120	VAL
36	BK	84	LYS
37	BL	51	LEU
37	BL	114	GLU
38	BM	60	GLU
38	BM	96	GLY
39	BN	29	VAL
39	BN	38	ARG
39	BN	49	ILE
39	BN	88	ARG
39	BN	97	TYR
39	BN	108	ARG
41	BQ	10	ALA
41	BQ	28	LYS
41	BQ	63	GLY
42	BR	8	LEU

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Mol	Chain	Res	Type
42	BR	17	SER
42	BR	28	ASN
42	BR	46	ALA
42	BR	82	LYS
42	BR	93	LEU
44	BT	81	PRO
45	BU	29	SER
45	BU	35	ILE
45	BU	70	VAL
45	BU	79	ILE
48	BZ	45	ASP
48	BZ	48	TYR
48	BZ	51	ARG
3	AB	205	ALA
4	AC	24	ASN
8	AG	35	LYS
8	AG	129	ASN
10	AI	113	LYS
10	AI	128	LYS
11	AJ	62	ARG
11	AJ	75	ASP
12	AK	53	GLY
13	AL	23	LEU
14	AM	15	VAL
15	AN	62	ARG
20	AS	5	LYS
25	B5	27	GLU
26	BA	45	ASN
26	BA	86	ARG
26	BA	125	PRO
26	BA	142	ASN
27	BB	104	VAL
27	BB	125	TRP
27	BB	182	ALA
28	BC	14	VAL
28	BC	87	ALA
28	BC	150	THR
28	BC	153	LEU
29	BD	4	HIS
29	BD	9	ASP
29	BD	46	LYS
29	BD	111	ARG

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Mol	Chain	Res	Type
29	BD	172	PHE
32	BG	14	ALA
32	BG	59	THR
33	BH	136	GLN
34	BI	30	ARG
34	BI	31	ARG
34	BI	109	SER
35	BJ	14	LYS
35	BJ	50	PHE
35	BJ	54	GLN
35	BJ	64	PHE
35	BJ	123	ARG
36	BK	20	LEU
36	BK	126	ILE
37	BL	32	GLU
37	BL	111	ALA
39	BN	14	GLN
39	BN	48	ALA
40	BO	9	ALA
41	BQ	6	LYS
42	BR	25	GLU
42	BR	72	GLN
42	BR	73	ARG
43	BS	44	HIS
43	BS	47	PRO
43	BS	61	GLU
45	BU	9	THR
45	BU	68	PHE
45	BU	83	ALA
48	BZ	44	ALA
48	BZ	46	GLY
48	BZ	50	GLY
48	BZ	52	LYS
49	B1	26	LYS
49	B1	45	HIS
3	AB	18	GLN
4	AC	13	ILE
5	AD	4	LEU
10	AI	24	ASN
10	AI	55	ASP
10	AI	105	ARG
10	AI	107	ALA

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Mol	Chain	Res	Type
12	AK	14	GLN
13	AL	117	GLY
18	AQ	65	PRO
20	AS	12	LEU
25	B5	47	ALA
25	B5	48	ALA
26	BA	49	THR
26	BA	64	VAL
26	BA	135	PRO
26	BA	150	GLY
26	BA	179	GLU
26	BA	217	PRO
26	BA	263	ASP
27	BB	159	LYS
27	BB	185	ASN
28	BC	35	TYR
29	BD	43	ILE
32	BG	8	VAL
32	BG	35	MET
32	BG	112	LYS
33	BH	8	PRO
33	BH	14	ASP
33	BH	22	GLY
34	BI	90	ASN
35	BJ	10	GLU
35	BJ	62	PRO
35	BJ	108	ALA
36	BK	82	MET
36	BK	111	GLU
37	BL	5	LYS
37	BL	85	PRO
38	BM	42	PRO
39	BN	3	ILE
39	BN	16	VAL
39	BN	31	VAL
39	BN	61	ARG
39	BN	74	GLN
39	BN	92	ARG
40	BO	81	GLY
40	BO	86	SER
40	BO	88	GLU
42	BR	18	GLU

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Mol	Chain	Res	Type
42	BR	39	THR
42	BR	68	LYS
42	BR	79	ASP
42	BR	89	GLU
43	BS	36	GLU
44	BT	84	PRO
45	BU	39	GLN
45	BU	64	GLY
45	BU	76	ARG
3	AB	13	VAL
3	AB	122	ASP
5	AD	182	LYS
7	AF	91	ARG
10	AI	25	GLY
13	AL	41	PRO
24	B2	109	ASN
25	B3	82	GLU
27	BB	121	THR
27	BB	123	LYS
27	BB	132	ALA
28	BC	34	ALA
28	BC	41	GLN
28	BC	166	LYS
29	BD	30	VAL
29	BD	104	THR
29	BD	114	ARG
29	BD	147	ARG
30	BE	127	GLN
31	BF	9	VAL
32	BG	17	ALA
32	BG	60	VAL
32	BG	127	SER
33	BH	77	HIS
35	BJ	21	ARG
35	BJ	100	ILE
35	BJ	118	THR
36	BK	7	THR
38	BM	12	THR
39	BN	51	ASN
40	BO	7	VAL
40	BO	27	ARG
41	BQ	61	ASN

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Mol	Chain	Res	Type
44	BT	71	LYS
48	BZ	53	VAL
3	AB	36	LYS
4	AC	65	VAL
4	AC	107	LYS
5	AD	21	LYS
8	AG	148	LYS
9	AH	29	SER
10	AI	103	VAL
12	AK	16	SER
12	AK	87	GLY
13	AL	78	VAL
14	AM	3	ILE
15	AN	44	VAL
20	AS	2	ARG
26	BA	74	PRO
29	BD	130	GLY
30	BE	53	PRO
31	BF	78	VAL
31	BF	85	GLY
32	BG	120	ASP
35	BJ	89	VAL
37	BL	94	TYR
40	BO	57	ARG
40	BO	73	ILE
40	BO	99	VAL
42	BR	76	ARG
46	BW	26	PHE
11	AJ	74	VAL
25	B3	44	PRO
26	BA	148	GLY
29	BD	11	VAL
31	BF	16	GLY
33	BH	62	VAL
35	BJ	24	GLY
36	BK	57	VAL
42	BR	43	ILE
32	BG	23	VAL
33	BH	55	ILE
35	BJ	26	GLY
38	BM	114	GLY
8	AG	80	GLY

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Mol	Chain	Res	Type
25	B5	91	PRO
26	BA	147	PRO
27	BB	92	VAL
28	BC	187	VAL
31	BF	107	GLY
35	BJ	102	GLY
4	AC	54	ILE
12	AK	112	VAL
12	AK	121	ARG
32	BG	48	ILE
33	BH	45	THR
35	BJ	135	ILE
37	BL	29	VAL
39	BN	17	PRO
43	BS	71	ILE
12	AK	114	PRO
25	B5	44	PRO
29	BD	39	VAL
35	BJ	56	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AB	195/195 (100%)	194 (100%)	1 (0%)	81	83
4	AC	170/170 (100%)	164 (96%)	6 (4%)	32	53
5	AD	172/172 (100%)	170 (99%)	2 (1%)	63	75
6	AE	112/112 (100%)	110 (98%)	2 (2%)	51	68
7	AF	83/83 (100%)	81 (98%)	2 (2%)	43	64
8	AG	112/112 (100%)	112 (100%)	0	100	100
9	AH	103/103 (100%)	101 (98%)	2 (2%)	50	67
10	AI	104/104 (100%)	102 (98%)	2 (2%)	50	67
11	AJ	84/84 (100%)	82 (98%)	2 (2%)	43	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	AK	89/89 (100%)	87 (98%)	2 (2%)	45	64
13	AL	85/85 (100%)	82 (96%)	3 (4%)	32	53
14	AM	93/93 (100%)	91 (98%)	2 (2%)	45	64
15	AN	52/52 (100%)	51 (98%)	1 (2%)	50	67
16	AO	74/74 (100%)	73 (99%)	1 (1%)	59	72
17	AP	63/63 (100%)	62 (98%)	1 (2%)	55	70
18	AQ	73/73 (100%)	73 (100%)	0	100	100
19	AR	60/60 (100%)	59 (98%)	1 (2%)	53	69
20	AS	75/75 (100%)	73 (97%)	2 (3%)	39	61
21	AT	63/63 (100%)	56 (89%)	7 (11%)	6	20
24	B2	172/172 (100%)	167 (97%)	5 (3%)	37	58
25	B3	83/83 (100%)	82 (99%)	1 (1%)	63	75
25	B5	83/83 (100%)	80 (96%)	3 (4%)	31	52
26	BA	176/176 (100%)	158 (90%)	18 (10%)	7	23
27	BB	164/164 (100%)	162 (99%)	2 (1%)	63	75
28	BC	163/163 (100%)	151 (93%)	12 (7%)	13	33
29	BD	149/149 (100%)	130 (87%)	19 (13%)	4	15
30	BE	130/130 (100%)	125 (96%)	5 (4%)	29	50
31	BF	114/114 (100%)	112 (98%)	2 (2%)	51	68
32	BG	108/108 (100%)	93 (86%)	15 (14%)	3	14
33	BH	116/116 (100%)	94 (81%)	22 (19%)	1	8
34	BI	103/103 (100%)	97 (94%)	6 (6%)	18	40
35	BJ	99/99 (100%)	77 (78%)	22 (22%)	1	6
36	BK	104/104 (100%)	90 (86%)	14 (14%)	4	14
37	BL	94/94 (100%)	78 (83%)	16 (17%)	2	10
38	BM	83/83 (100%)	79 (95%)	4 (5%)	23	44
39	BN	99/99 (100%)	79 (80%)	20 (20%)	1	7
40	BO	89/89 (100%)	68 (76%)	21 (24%)	1	5
41	BQ	89/89 (100%)	76 (85%)	13 (15%)	3	13
42	BR	77/77 (100%)	66 (86%)	11 (14%)	3	13
43	BS	82/82 (100%)	77 (94%)	5 (6%)	17	38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	BT	78/78 (100%)	76 (97%)	2 (3%)	40	62
45	BU	62/62 (100%)	54 (87%)	8 (13%)	4	15
46	BW	55/55 (100%)	52 (94%)	3 (6%)	19	41
47	BX	47/47 (100%)	46 (98%)	1 (2%)	47	65
48	BZ	24/24 (100%)	19 (79%)	5 (21%)	1	6
49	B1	46/46 (100%)	37 (80%)	9 (20%)	1	7
All	All	4551/4551 (100%)	4248 (93%)	303 (7%)	17	36

All (303) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AB	185	ILE
4	AC	26	LYS
4	AC	54	ILE
4	AC	63	ILE
4	AC	100	ILE
4	AC	148	ILE
4	AC	165	GLU
5	AD	82	LYS
5	AD	205	LYS
6	AE	19	ARG
6	AE	25	LYS
7	AF	22	ILE
7	AF	52	ASN
9	AH	66	GLN
9	AH	116	ARG
10	AI	34	LEU
10	AI	67	LYS
11	AJ	30	LYS
11	AJ	100	ILE
12	AK	30	ILE
12	AK	106	ILE
13	AL	43	LYS
13	AL	79	ILE
13	AL	120	ARG
14	AM	2	ARG
14	AM	16	ILE
15	AN	97	LYS
16	AO	47	LYS
17	AP	67	ILE

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Mol	Chain	Res	Type
19	AR	7	ARG
20	AS	6	LYS
20	AS	86	LYS
21	AT	8	LYS
21	AT	31	ILE
21	AT	33	LYS
21	AT	39	GLU
21	AT	48	LYS
21	AT	53	MET
21	AT	84	LYS
24	B2	49	ILE
24	B2	170	ILE
24	B2	171	HIS
24	B2	202	GLN
24	B2	208	ILE
25	B3	4	LYS
25	B5	4	LYS
25	B5	81	LYS
25	B5	84	LYS
26	BA	49	THR
26	BA	53	ILE
26	BA	58	LYS
26	BA	63	ILE
26	BA	65	ASP
26	BA	67	LYS
26	BA	73	ILE
26	BA	94	LEU
26	BA	97	ASP
26	BA	99	GLU
26	BA	115	ILE
26	BA	123	ILE
26	BA	139	THR
26	BA	141	HIS
26	BA	143	VAL
26	BA	161	VAL
26	BA	183	VAL
26	BA	188	ARG
27	BB	13	ARG
27	BB	125	TRP
28	BC	35	TYR
28	BC	43	THR
28	BC	47	LYS

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Mol	Chain	Res	Type
28	BC	48	THR
28	BC	49	ARG
28	BC	63	LYS
28	BC	74	LYS
28	BC	85	PHE
28	BC	90	GLN
28	BC	108	ILE
28	BC	137	LYS
28	BC	175	ILE
29	BD	8	LYS
29	BD	9	ASP
29	BD	29	ARG
29	BD	31	GLU
29	BD	47	LYS
29	BD	51	ASN
29	BD	59	ILE
29	BD	63	LYS
29	BD	68	LYS
29	BD	71	LYS
29	BD	77	LYS
29	BD	87	LYS
29	BD	90	LEU
29	BD	91	ARG
29	BD	119	LYS
29	BD	129	MET
29	BD	153	ILE
29	BD	160	LYS
29	BD	166	ARG
30	BE	18	ILE
30	BE	25	ILE
30	BE	76	ILE
30	BE	88	LEU
30	BE	120	ILE
31	BF	12	LEU
31	BF	143	ILE
32	BG	9	LYS
32	BG	34	ILE
32	BG	48	ILE
32	BG	54	ILE
32	BG	81	LYS
32	BG	85	ILE
32	BG	91	LYS

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Mol	Chain	Res	Type
32	BG	96	LYS
32	BG	99	LYS
32	BG	104	GLN
32	BG	108	ILE
32	BG	112	LYS
32	BG	121	ILE
32	BG	124	MET
32	BG	135	MET
33	BH	11	VAL
33	BH	12	LYS
33	BH	14	ASP
33	BH	15	TRP
33	BH	16	TYR
33	BH	25	LEU
33	BH	36	LEU
33	BH	41	LYS
33	BH	55	ILE
33	BH	68	LYS
33	BH	72	LYS
33	BH	84	ILE
33	BH	85	LYS
33	BH	99	ARG
33	BH	101	ILE
33	BH	108	MET
33	BH	109	LEU
33	BH	111	LYS
33	BH	113	PRO
33	BH	114	LEU
33	BH	122	LEU
33	BH	123	LYS
34	BI	38	ILE
34	BI	41	ILE
34	BI	51	LYS
34	BI	95	ILE
34	BI	99	ILE
34	BI	116	ILE
35	BJ	13	LYS
35	BJ	18	ARG
35	BJ	19	LEU
35	BJ	27	LEU
35	BJ	30	THR
35	BJ	33	ARG

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Mol	Chain	Res	Type
35	BJ	36	LYS
35	BJ	39	LYS
35	BJ	41	ARG
35	BJ	50	PHE
35	BJ	56	PRO
35	BJ	70	LYS
35	BJ	79	LEU
35	BJ	92	LEU
35	BJ	96	LYS
35	BJ	101	ILE
35	BJ	109	LYS
35	BJ	111	ILE
35	BJ	115	GLU
35	BJ	118	THR
35	BJ	126	ARG
35	BJ	135	ILE
36	BK	5	LYS
36	BK	8	LYS
36	BK	11	LYS
36	BK	18	ARG
36	BK	34	LYS
36	BK	59	ARG
36	BK	63	ILE
36	BK	76	LYS
36	BK	80	VAL
36	BK	92	TRP
36	BK	109	PRO
36	BK	111	GLU
36	BK	112	LEU
36	BK	126	ILE
37	BL	4	ARG
37	BL	5	LYS
37	BL	8	ARG
37	BL	10	LEU
37	BL	12	ARG
37	BL	17	ARG
37	BL	28	LEU
37	BL	36	THR
37	BL	42	LYS
37	BL	43	GLU
37	BL	63	ARG
37	BL	64	ARG

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Mol	Chain	Res	Type
37	BL	75	ILE
37	BL	96	ARG
37	BL	97	ILE
37	BL	99	LYS
38	BM	15	ARG
38	BM	35	ILE
38	BM	40	ILE
38	BM	104	GLN
39	BN	6	GLN
39	BN	9	GLN
39	BN	13	LYS
39	BN	20	ARG
39	BN	21	PRO
39	BN	36	LYS
39	BN	37	LYS
39	BN	38	ARG
39	BN	40	GLN
39	BN	61	ARG
39	BN	62	LYS
39	BN	71	ARG
39	BN	74	GLN
39	BN	83	ILE
39	BN	87	ARG
39	BN	88	ARG
39	BN	92	ARG
39	BN	96	LEU
39	BN	102	ARG
39	BN	105	LYS
40	BO	2	ARG
40	BO	4	LYS
40	BO	12	ARG
40	BO	14	LYS
40	BO	15	LYS
40	BO	18	LYS
40	BO	21	LYS
40	BO	31	TYR
40	BO	40	LYS
40	BO	44	TYR
40	BO	46	TYR
40	BO	50	ARG
40	BO	53	LYS
40	BO	58	GLN

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Mol	Chain	Res	Type
40	BO	60	TRP
40	BO	63	ARG
40	BO	78	PHE
40	BO	83	LYS
40	BO	102	LYS
40	BO	108	LEU
40	BO	111	LYS
41	BQ	7	HIS
41	BQ	11	ARG
41	BQ	16	LYS
41	BQ	25	ARG
41	BQ	27	LYS
41	BQ	35	ILE
41	BQ	49	LYS
41	BQ	74	ILE
41	BQ	83	LYS
41	BQ	84	ARG
41	BQ	88	ARG
41	BQ	98	LYS
41	BQ	99	ARG
42	BR	36	LYS
42	BR	40	LYS
42	BR	49	LYS
42	BR	51	PHE
42	BR	66	LYS
42	BR	68	LYS
42	BR	73	ARG
42	BR	77	ARG
42	BR	82	LYS
42	BR	93	LEU
42	BR	95	PHE
43	BS	4	ILE
43	BS	25	LYS
43	BS	34	ILE
43	BS	57	ILE
43	BS	90	LYS
44	BT	29	ILE
44	BT	68	LYS
45	BU	4	LYS
45	BU	13	ARG
45	BU	38	ARG
45	BU	40	ARG

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Mol	Chain	Res	Type
45	BU	43	LYS
45	BU	45	HIS
45	BU	65	LYS
45	BU	79	ILE
46	BW	38	GLN
46	BW	39	GLN
46	BW	42	LEU
47	BX	31	ILE
48	BZ	31	LYS
48	BZ	36	LYS
48	BZ	48	TYR
48	BZ	52	LYS
48	BZ	54	ILE
49	B1	5	ARG
49	B1	9	LYS
49	B1	24	LYS
49	B1	26	LYS
49	B1	31	GLU
49	B1	32	LYS
49	B1	36	LYS
49	B1	43	ARG
49	B1	50	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (156) such sidechains are listed below:

Mol	Chain	Res	Type
3	AB	14	HIS
3	AB	18	GLN
3	AB	23	ASN
3	AB	35	ASN
3	AB	88	GLN
3	AB	121	GLN
3	AB	145	ASN
3	AB	176	ASN
3	AB	202	ASN
3	AB	226	GLN
4	AC	2	GLN
4	AC	7	ASN
4	AC	24	ASN
4	AC	40	GLN
4	AC	68	HIS
4	AC	101	ASN

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Mol	Chain	Res	Type
4	AC	139	ASN
4	AC	184	ASN
5	AD	39	GLN
5	AD	53	GLN
5	AD	70	GLN
5	AD	88	ASN
5	AD	99	ASN
5	AD	115	GLN
5	AD	151	GLN
6	AE	60	GLN
6	AE	77	ASN
6	AE	134	ASN
7	AF	3	HIS
7	AF	14	GLN
7	AF	37	HIS
7	AF	46	GLN
7	AF	58	HIS
7	AF	81	ASN
8	AG	27	ASN
8	AG	67	ASN
8	AG	121	ASN
8	AG	129	ASN
9	AH	15	ASN
9	AH	17	GLN
9	AH	37	ASN
9	AH	66	GLN
10	AI	24	ASN
10	AI	80	HIS
11	AJ	20	GLN
11	AJ	35	GLN
11	AJ	56	HIS
11	AJ	58	ASN
11	AJ	99	GLN
12	AK	63	GLN
12	AK	118	ASN
13	AL	45	ASN
14	AM	7	ASN
16	AO	19	ASN
16	AO	34	GLN
16	AO	36	ASN
17	AP	26	ASN
17	AP	29	ASN

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Mol	Chain	Res	Type
17	AP	40	ASN
18	AQ	44	HIS
18	AQ	49	ASN
19	AR	53	GLN
20	AS	51	HIS
20	AS	52	ASN
20	AS	55	GLN
20	AS	56	HIS
21	AT	12	GLN
21	AT	47	GLN
21	AT	54	GLN
21	AT	77	ASN
24	B2	19	GLN
24	B2	56	GLN
24	B2	167	ASN
24	B2	202	GLN
24	B2	225	GLN
26	BA	44	ASN
26	BA	52	HIS
26	BA	59	GLN
26	BA	127	ASN
26	BA	142	ASN
26	BA	196	ASN
26	BA	231	HIS
27	BB	49	GLN
27	BB	126	ASN
27	BB	136	ASN
27	BB	148	GLN
27	BB	164	GLN
27	BB	173	GLN
27	BB	185	ASN
28	BC	9	GLN
28	BC	90	GLN
28	BC	92	HIS
28	BC	94	GLN
28	BC	97	ASN
28	BC	136	GLN
29	BD	62	GLN
29	BD	126	ASN
30	BE	19	ASN
30	BE	37	ASN
30	BE	44	HIS

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Mol	Chain	Res	Type
30	BE	127	GLN
30	BE	142	GLN
31	BF	33	GLN
31	BF	66	ASN
31	BF	73	ASN
31	BF	133	GLN
32	BG	5	GLN
32	BG	29	GLN
32	BG	33	ASN
32	BG	106	GLN
33	BH	76	HIS
33	BH	86	GLN
33	BH	131	ASN
33	BH	138	GLN
34	BI	9	ASN
35	BJ	38	GLN
35	BJ	54	GLN
35	BJ	99	ASN
35	BJ	104	GLN
36	BK	22	GLN
37	BL	9	GLN
38	BM	61	GLN
39	BN	2	ASN
39	BN	9	GLN
39	BN	11	GLN
39	BN	65	ASN
40	BO	19	GLN
40	BO	36	GLN
40	BO	51	GLN
40	BO	70	GLN
40	BO	71	ASN
40	BO	80	ASN
41	BQ	9	HIS
41	BQ	15	GLN
41	BQ	57	ASN
42	BR	28	ASN
42	BR	48	GLN
42	BR	72	GLN
42	BR	91	GLN
42	BR	92	ASN
44	BT	24	ASN
44	BT	44	HIS

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Mol	Chain	Res	Type
44	BT	78	GLN
44	BT	87	GLN
44	BT	88	HIS
45	BU	45	HIS
46	BW	15	ASN
46	BW	27	ASN
46	BW	36	GLN
46	BW	38	GLN
46	BW	39	GLN
46	BW	58	ASN
47	BX	19	HIS
47	BX	33	HIS
48	BZ	37	HIS
49	B1	44	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1487/1488 (99%)	248 (16%)	71 (4%)
2	AU	75/76 (98%)	13 (17%)	5 (6%)
2	AV	75/76 (98%)	10 (13%)	4 (5%)
2	AW	75/76 (98%)	13 (17%)	5 (6%)
22	B0	2739/2740 (99%)	541 (19%)	131 (4%)
23	B9	107/108 (99%)	20 (18%)	2 (1%)
All	All	4558/4564 (99%)	845 (18%)	218 (4%)

All (845) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	13	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	52	C

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Mol	Chain	Res	Type
1	AA	61	G
1	AA	65	A
1	AA	81	A
1	AA	82	G
1	AA	101	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	U
1	AA	122	G
1	AA	130	A
1	AA	144	G
1	AA	174	A
1	AA	182	A
1	AA	191	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	204	U
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	280	C
1	AA	281	G
1	AA	289	G
1	AA	306	A
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	346	G
1	AA	352	C
1	AA	353	A
1	AA	367	U
1	AA	368	U
1	AA	397	A
1	AA	398	U

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Mol	Chain	Res	Type
1	AA	404	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	424	G
1	AA	428	G
1	AA	429	U
1	AA	431	A
1	AA	437	U
1	AA	438	U
1	AA	449	G
1	AA	450	G
1	AA	461	C
1	AA	462	G
1	AA	482	A
1	AA	483	C
1	AA	484	G
1	AA	485	U
1	AA	486	U
1	AA	497	G
1	AA	498	U
1	AA	499	A
1	AA	500	G
1	AA	508	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	524	G
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	546	A
1	AA	547	A
1	AA	559	A
1	AA	560	A
1	AA	561	U
1	AA	563	A

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Mol	Chain	Res	Type
1	AA	566	G
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	C
1	AA	596	A
1	AA	606	G
1	AA	607	A
1	AA	688	G
1	AA	701	U
1	AA	702	A
1	AA	704	A
1	AA	718	A
1	AA	719	C
1	AA	721	G
1	AA	722	G
1	AA	723	U
1	AA	749	A
1	AA	753	A
1	AA	754	C
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	813	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	U
1	AA	839	U
1	AA	841	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	874	G
1	AA	885	G
1	AA	889	A
1	AA	890	G

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Mol	Chain	Res	Type
1	AA	891	U
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	969	A
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	980	C
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1004	A
1	AA	1026	G
1	AA	1031	C
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1108	G
1	AA	1118	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G

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Mol	Chain	Res	Type
1	AA	1136	C
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1158	C
1	AA	1159	U
1	AA	1183	U
1	AA	1184	G
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1212	U
1	AA	1224	U
1	AA	1225	A
1	AA	1227	A
1	AA	1236	A
1	AA	1238	A
1	AA	1241	G
1	AA	1256	A
1	AA	1257	A
1	AA	1258	G
1	AA	1268	G
1	AA	1279	G
1	AA	1280	A
1	AA	1281	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1298	U
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	C
1	AA	1303	C
1	AA	1305	G
1	AA	1322	C
1	AA	1323	G
1	AA	1328	C
1	AA	1336	C
1	AA	1337	G

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Mol	Chain	Res	Type
1	AA	1347	G
1	AA	1348	U
1	AA	1362	A
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1384	C
1	AA	1397	C
1	AA	1400	C
1	AA	1401	G
1	AA	1442	G
1	AA	1443	C
1	AA	1446	A
1	AA	1453	G
1	AA	1468	A
1	AA	1492	A
1	AA	1497	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1520	C
1	AA	1529	G
1	AA	1530	G
2	AU	10	G
2	AU	16	U
2	AU	17	U
2	AU	18	G
2	AU	19	G
2	AU	20	G
2	AU	21	A
2	AU	37	G
2	AU	46	G
2	AU	47	U
2	AU	49	C
2	AU	59	U
2	AU	75	C
2	AV	10	G
2	AV	16	U
2	AV	17	U

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Mol	Chain	Res	Type
2	AV	18	G
2	AV	19	G
2	AV	20	G
2	AV	37	G
2	AV	47	U
2	AV	49	C
2	AV	59	U
2	AW	10	G
2	AW	16	U
2	AW	17	U
2	AW	18	G
2	AW	19	G
2	AW	20	G
2	AW	21	A
2	AW	37	G
2	AW	39	U
2	AW	46	G
2	AW	47	U
2	AW	49	C
2	AW	59	U
22	B0	34	U
22	B0	49	A
22	B0	50	U
22	B0	51	G
22	B0	61	C
22	B0	64	A
22	B0	72	U
22	B0	74	A
22	B0	75	G
22	B0	85	G
22	B0	90	U
22	B0	91	A
22	B0	99	U
22	B0	100	U
22	B0	102	U
22	B0	119	A
22	B0	120	U
22	B0	121	G
22	B0	125	A
22	B0	128	C
22	B0	130	C
22	B0	140	C

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Mol	Chain	Res	Type
22	B0	141	G
22	B0	162	U
22	B0	163	C
22	B0	164	C
22	B0	165	A
22	B0	172	A
22	B0	181	A
22	B0	196	A
22	B0	197	A
22	B0	199	A
22	B0	204	A
22	B0	205	G
22	B0	216	A
22	B0	222	A
22	B0	223	A
22	B0	227	A
22	B0	228	C
22	B0	229	C
22	B0	241	A
22	B0	242	G
22	B0	248	G
22	B0	250	G
22	B0	265	A
22	B0	266	G
22	B0	271	G
22	B0	278	A
22	B0	279	A
22	B0	301	G
22	B0	302	C
22	B0	311	A
22	B0	312	G
22	B0	322	A
22	B0	323	C
22	B0	324	A
22	B0	329	G
22	B0	330	A
22	B0	331	C
22	B0	332	A
22	B0	334	C
22	B0	352	A
22	B0	362	A
22	B0	363	G

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Mol	Chain	Res	Type
22	B0	371	A
22	B0	372	G
22	B0	388	G
22	B0	390	U
22	B0	401	A
22	B0	405	U
22	B0	406	G
22	B0	411	G
22	B0	412	A
22	B0	417	C
22	B0	431	U
22	B0	432	A
22	B0	443	A
22	B0	447	A
22	B0	448	U
22	B0	449	A
22	B0	451	U
22	B0	455	C
22	B0	456	C
22	B0	458	G
22	B0	475	C
22	B0	476	G
22	B0	480	A
22	B0	481	G
22	B0	491	G
22	B0	492	A
22	B0	493	G
22	B0	494	G
22	B0	501	A
22	B0	502	A
22	B0	503	A
22	B0	504	A
22	B0	505	A
22	B0	509	C
22	B0	528	A
22	B0	530	G
22	B0	531	C
22	B0	532	A
22	B0	533	G
22	B0	539	G
22	B0	545	U
22	B0	547	A

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Mol	Chain	Res	Type
22	B0	549	G
22	B0	550	C
22	B0	563	G
22	B0	572	A
22	B0	574	A
22	B0	575	A
22	B0	587	C
22	B0	589	U
22	B0	603	A
22	B0	611	C
22	B0	618	G
22	B0	621	A
22	B0	627	A
22	B0	628	G
22	B0	637	A
22	B0	656	G
22	B0	668	A
22	B0	669	G
22	B0	671	C
22	B0	685	A
22	B0	686	U
22	B0	718	A
22	B0	729	G
22	B0	730	A
22	B0	747	U
22	B0	748	G
22	B0	749	A
22	B0	750	A
22	B0	751	A
22	B0	752	A
22	B0	762	U
22	B0	763	G
22	B0	764	A
22	B0	765	C
22	B0	775	G
22	B0	776	G
22	B0	777	G
22	B0	783	A
22	B0	784	G
22	B0	785	G
22	B0	789	A
22	B0	790	U

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Mol	Chain	Res	Type
22	B0	792	A
22	B0	794	A
22	B0	800	A
22	B0	801	G
22	B0	802	A
22	B0	805	G
22	B0	811	U
22	B0	812	C
22	B0	819	A
22	B0	821	A
22	B0	828	U
22	B0	848	C
22	B0	851	C
22	B0	859	G
22	B0	860	U
22	B0	884	U
22	B0	885	C
22	B0	910	A
22	B0	928	A
22	B0	929	U
22	B0	946	C
22	B0	960	A
22	B0	961	C
22	B0	962	G
22	B0	970	U
22	B0	971	G
22	B0	973	A
22	B0	974	G
22	B0	975	A
22	B0	983	A
22	B0	985	C
22	B0	990	A
22	B0	991	C
22	B0	1008	A
22	B0	1009	A
22	B0	1011	G
22	B0	1012	U
22	B0	1013	C
22	B0	1022	G
22	B0	1023	U
22	B0	1024	G
22	B0	1025	G

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Mol	Chain	Res	Type
22	B0	1026	G
22	B0	1044	C
22	B0	1045	C
22	B0	1046	A
22	B0	1047	G
22	B0	1060	U
22	B0	1061	U
22	B0	1062	G
22	B0	1070	A
22	B0	1071	G
22	B0	1083	U
22	B0	1088	A
22	B0	1090	A
22	B0	1110	G
22	B0	1111	A
22	B0	1112	G
22	B0	1126	A
22	B0	1127	A
22	B0	1129	A
22	B0	1131	G
22	B0	1136	G
22	B0	1142	A
22	B0	1143	A
22	B0	1144	A
22	B0	1156	A
22	B0	1157	G
22	B0	1176	U
22	B0	1184	U
22	B0	1186	G
22	B0	1210	G
22	B0	1211	C
22	B0	1212	G
22	B0	1226	A
22	B0	1249	U
22	B0	1252	G
22	B0	1254	A
22	B0	1255	U
22	B0	1256	G
22	B0	1265	A
22	B0	1266	G
22	B0	1272	A
22	B0	1273	U

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Mol	Chain	Res	Type
22	B0	1274	A
22	B0	1276	A
22	B0	1287	A
22	B0	1301	A
22	B0	1303	G
22	B0	1313	U
22	B0	1314	C
22	B0	1321	A
22	B0	1325	U
22	B0	1326	U
22	B0	1329	U
22	B0	1333	G
22	B0	1341	G
22	B0	1343	G
22	B0	1364	G
22	B0	1371	G
22	B0	1380	G
22	B0	1381	G
22	B0	1383	A
22	B0	1385	A
22	B0	1397	U
22	B0	1398	C
22	B0	1411	U
22	B0	1416	G
22	B0	1418	G
22	B0	1423	A
22	B0	1427	A
22	B0	1429	G
22	B0	1445	U
22	B0	1455	U
22	B0	1456	G
22	B0	1466	U
22	B0	1474	U
22	B0	1489	U
22	B0	1492	G
22	B0	1493	A
22	B0	1496	A
22	B0	1498	C
22	B0	1508	C
22	B0	1513	C
22	B0	1536	C
22	B0	1548	A

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Mol	Chain	Res	Type
22	B0	1553	A
22	B0	1566	A
22	B0	1569	A
22	B0	1579	A
22	B0	1593	G
22	B0	1594	U
22	B0	1607	C
22	B0	1609	A
22	B0	1611	C
22	B0	1616	A
22	B0	1618	A
22	B0	1627	G
22	B0	1630	A
22	B0	1635	A
22	B0	1646	C
22	B0	1647	U
22	B0	1648	U
22	B0	1654	A
22	B0	1669	A
22	B0	1682	G
22	B0	1694	C
22	B0	1695	G
22	B0	1698	A
22	B0	1699	G
22	B0	1700	A
22	B0	1732	C
22	B0	1758	U
22	B0	1759	A
22	B0	1760	C
22	B0	1761	C
22	B0	1762	A
22	B0	1763	G
22	B0	1764	C
22	B0	1773	A
22	B0	1780	A
22	B0	1781	U
22	B0	1800	C
22	B0	1801	A
22	B0	1802	A
22	B0	1815	A
22	B0	1816	C
22	B0	1817	G

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Mol	Chain	Res	Type
22	B0	1820	U
22	B0	1821	A
22	B0	1829	A
22	B0	1833	C
22	B0	1839	G
22	B0	1841	U
22	B0	1853	A
22	B0	1870	C
22	B0	1872	A
22	B0	1889	A
22	B0	1901	A
22	B0	1903	G
22	B0	1923	U
22	B0	1927	A
22	B0	1930	G
22	B0	1932	A
22	B0	1937	A
22	B0	1938	A
22	B0	1939	U
22	B0	1940	U
22	B0	1943	U
22	B0	1944	U
22	B0	1955	U
22	B0	1956	U
22	B0	1963	U
22	B0	1964	G
22	B0	1965	C
22	B0	1966	A
22	B0	1967	C
22	B0	1971	U
22	B0	1972	G
22	B0	1977	A
22	B0	1981	A
22	B0	1993	U
22	B0	1996	C
22	B0	1997	C
22	B0	2006	C
22	B0	2031	A
22	B0	2032	G
22	B0	2033	A
22	B0	2034	U
22	B0	2036	C

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Mol	Chain	Res	Type
22	B0	2050	C
22	B0	2055	C
22	B0	2059	A
22	B0	2060	A
22	B0	2068	U
22	B0	2069	G
22	B0	2075	U
22	B0	2076	U
22	B0	2092	U
22	B0	2093	G
22	B0	2110	G
22	B0	2111	U
22	B0	2115	G
22	B0	2116	G
22	B0	2117	A
22	B0	2118	U
22	B0	2120	G
22	B0	2121	G
22	B0	2122	U
22	B0	2123	G
22	B0	2124	G
22	B0	2125	G
22	B0	2126	A
22	B0	2127	G
22	B0	2128	G
22	B0	2130	U
22	B0	2131	U
22	B0	2132	U
22	B0	2134	A
22	B0	2135	A
22	B0	2136	G
22	B0	2138	G
22	B0	2139	U
22	B0	2140	G
22	B0	2144	G
22	B0	2145	C
22	B0	2146	C
22	B0	2147	A
22	B0	2148	G
22	B0	2150	C
22	B0	2151	U
22	B0	2152	G

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Mol	Chain	Res	Type
22	B0	2153	C
22	B0	2154	A
22	B0	2155	U
22	B0	2156	G
22	B0	2157	G
22	B0	2158	A
22	B0	2159	G
22	B0	2161	C
22	B0	2162	G
22	B0	2163	G
22	B0	2164	C
22	B0	2165	C
22	B0	2166	U
22	B0	2167	U
22	B0	2168	G
22	B0	2170	A
22	B0	2171	A
22	B0	2176	A
22	B0	2177	C
22	B0	2178	C
22	B0	2179	C
22	B0	2180	U
22	B0	2181	U
22	B0	2198	A
22	B0	2199	A
22	B0	2226	C
22	B0	2227	A
22	B0	2228	G
22	B0	2238	G
22	B0	2239	G
22	B0	2243	U
22	B0	2244	U
22	B0	2245	U
22	B0	2250	G
22	B0	2258	C
22	B0	2266	A
22	B0	2267	A
22	B0	2282	G
22	B0	2283	C
22	B0	2288	A
22	B0	2297	A
22	B0	2304	G

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Mol	Chain	Res	Type
22	B0	2310	C
22	B0	2311	A
22	B0	2320	U
22	B0	2321	U
22	B0	2328	A
22	B0	2334	U
22	B0	2335	A
22	B0	2337	G
22	B0	2345	G
22	B0	2346	A
22	B0	2347	C
22	B0	2356	U
22	B0	2357	G
22	B0	2358	A
22	B0	2359	C
22	B0	2385	C
22	B0	2400	G
22	B0	2405	G
22	B0	2406	A
22	B0	2425	A
22	B0	2428	G
22	B0	2433	A
22	B0	2434	A
22	B0	2439	A
22	B0	2440	C
22	B0	2441	U
22	B0	2447	G
22	B0	2448	A
22	B0	2450	A
22	B0	2459	A
22	B0	2476	A
22	B0	2478	A
22	B0	2479	U
22	B0	2491	U
22	B0	2492	U
22	B0	2495	G
22	B0	2497	A
22	B0	2498	C
22	B0	2502	G
22	B0	2503	A
22	B0	2504	U
22	B0	2505	G

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Mol	Chain	Res	Type
22	B0	2506	U
22	B0	2518	A
22	B0	2519	U
22	B0	2543	G
22	B0	2547	A
22	B0	2554	U
22	B0	2557	G
22	B0	2566	A
22	B0	2567	G
22	B0	2578	G
22	B0	2582	G
22	B0	2586	U
22	B0	2602	A
22	B0	2603	G
22	B0	2613	U
22	B0	2614	A
22	B0	2615	U
22	B0	2627	G
22	B0	2631	G
22	B0	2639	A
22	B0	2645	G
22	B0	2654	A
22	B0	2655	G
22	B0	2667	C
22	B0	2678	C
22	B0	2681	C
22	B0	2682	A
22	B0	2688	G
22	B0	2712	C
22	B0	2713	U
22	B0	2732	G
22	B0	2750	A
22	B0	2751	G
22	B0	2756	U
22	B0	2757	A
22	B0	2765	A
22	B0	2766	A
22	B0	2776	A
22	B0	2777	G
22	B0	2779	U
22	B0	2780	G
22	B0	2781	A

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Mol	Chain	Res	Type
22	B0	2808	G
22	B0	2809	A
22	B0	2810	A
22	B0	2811	G
22	B0	2820	A
22	B0	2823	A
22	B0	2833	U
22	B0	2836	U
22	B0	2850	A
22	B0	2856	A
22	B0	2866	U
22	B0	2867	G
22	B0	2868	A
22	B0	2873	A
22	B0	2880	C
23	B9	13	G
23	B9	14	U
23	B9	15	A
23	B9	16	G
23	B9	17	C
23	B9	25	U
23	B9	26	C
23	B9	29	A
23	B9	30	C
23	B9	35	C
23	B9	42	C
23	B9	44	G
23	B9	57	A
23	B9	58	A
23	B9	67	G
23	B9	77	U
23	B9	85	G
23	B9	90	C
23	B9	100	G
23	B9	109	A

All (218) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	47	C
1	AA	48	C

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Mol	Chain	Res	Type
1	AA	50	A
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	129	A
1	AA	181	A
1	AA	197	A
1	AA	243	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	328	C
1	AA	366	A
1	AA	428	G
1	AA	436	C
1	AA	449	G
1	AA	481	G
1	AA	482	A
1	AA	483	C
1	AA	496	A
1	AA	499	A
1	AA	508	U
1	AA	509	A
1	AA	531	U
1	AA	533	A
1	AA	535	A
1	AA	559	A
1	AA	560	A
1	AA	566	G
1	AA	575	G
1	AA	595	A
1	AA	606	G
1	AA	687	A
1	AA	701	U
1	AA	748	G
1	AA	792	A
1	AA	812	G
1	AA	817	C
1	AA	872	A
1	AA	873	A

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Mol	Chain	Res	Type
1	AA	890	G
1	AA	913	A
1	AA	960	U
1	AA	975	A
1	AA	990	C
1	AA	992	U
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1085	U
1	AA	1100	C
1	AA	1101	A
1	AA	1157	A
1	AA	1182	G
1	AA	1196	A
1	AA	1226	C
1	AA	1256	A
1	AA	1257	A
1	AA	1285	A
1	AA	1302	C
1	AA	1322	C
1	AA	1346	A
1	AA	1347	G
1	AA	1383	C
1	AA	1498	U
1	AA	1528	U
2	AU	16	U
2	AU	18	G
2	AU	19	G
2	AU	46	G
2	AU	58	A
2	AV	16	U
2	AV	18	G
2	AV	19	G
2	AV	58	A
2	AW	16	U
2	AW	18	G
2	AW	19	G
2	AW	46	G
2	AW	58	A
22	B0	50	U
22	B0	99	U

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Mol	Chain	Res	Type
22	B0	120	U
22	B0	165	A
22	B0	215	G
22	B0	221	A
22	B0	226	A
22	B0	265	A
22	B0	276	U
22	B0	301	G
22	B0	321	U
22	B0	362	A
22	B0	371	A
22	B0	387	U
22	B0	474	G
22	B0	490	C
22	B0	501	A
22	B0	503	A
22	B0	508	A
22	B0	527	C
22	B0	529	A
22	B0	531	C
22	B0	571	U
22	B0	620	G
22	B0	627	A
22	B0	655	A
22	B0	750	A
22	B0	762	U
22	B0	764	A
22	B0	776	G
22	B0	784	G
22	B0	800	A
22	B0	801	G
22	B0	811	U
22	B0	846	U
22	B0	858	G
22	B0	859	G
22	B0	926	G
22	B0	928	A
22	B0	974	G
22	B0	982	C
22	B0	989	G
22	B0	990	A
22	B0	1011	G

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Mol	Chain	Res	Type
22	B0	1060	U
22	B0	1061	U
22	B0	1110	G
22	B0	1111	A
22	B0	1141	U
22	B0	1142	A
22	B0	1143	A
22	B0	1211	C
22	B0	1225	G
22	B0	1248	G
22	B0	1273	U
22	B0	1275	A
22	B0	1286	A
22	B0	1300	G
22	B0	1302	A
22	B0	1342	A
22	B0	1397	U
22	B0	1410	G
22	B0	1568	G
22	B0	1593	G
22	B0	1608	A
22	B0	1615	C
22	B0	1646	C
22	B0	1653	G
22	B0	1668	A
22	B0	1693	U
22	B0	1698	A
22	B0	1779	U
22	B0	1799	G
22	B0	1800	C
22	B0	1815	A
22	B0	1828	G
22	B0	1922	G
22	B0	1929	G
22	B0	1937	A
22	B0	1943	U
22	B0	1964	G
22	B0	1992	G
22	B0	1996	C
22	B0	2033	A
22	B0	2035	G
22	B0	2049	G

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Mol	Chain	Res	Type
22	B0	2058	A
22	B0	2059	A
22	B0	2075	U
22	B0	2109	U
22	B0	2120	G
22	B0	2122	U
22	B0	2123	G
22	B0	2137	U
22	B0	2138	G
22	B0	2143	C
22	B0	2154	A
22	B0	2157	G
22	B0	2161	C
22	B0	2164	C
22	B0	2198	A
22	B0	2225	A
22	B0	2238	G
22	B0	2243	U
22	B0	2249	U
22	B0	2250	G
22	B0	2282	G
22	B0	2287	A
22	B0	2296	U
22	B0	2319	G
22	B0	2333	A
22	B0	2336	A
22	B0	2345	G
22	B0	2357	G
22	B0	2433	A
22	B0	2447	G
22	B0	2458	G
22	B0	2490	G
22	B0	2517	C
22	B0	2581	G
22	B0	2614	A
22	B0	2644	G
22	B0	2655	G
22	B0	2756	U
22	B0	2776	A
22	B0	2778	A
22	B0	2779	U
22	B0	2819	G

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Mol	Chain	Res	Type
22	B0	2832	U
22	B0	2835	A
22	B0	2849	U
23	B9	16	G
23	B9	66	A

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	B3	6
26	BA	5
25	B5	4
27	BB	4
42	BR	4
24	B2	2
3	AB	2
31	BF	2
1	AA	2
28	BC	1
29	BD	1

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Mol	Chain	Number of breaks
14	AM	1
43	BS	1
32	BG	1
37	BL	1
40	BO	1
35	BJ	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B5	52:THR	C	53:GLU	N	10.02
1	BA	60:ALA	C	61:TYR	N	9.99
1	B5	50:GLU	C	51:LYS	N	9.70
1	BB	167:ASN	C	168:GLU	N	8.31
1	BC	96:VAL	C	97:ASN	N	7.51
1	B3	48:ALA	C	49:GLU	N	7.47
1	BB	114:LYS	C	115:GLY	N	7.07
1	B3	52:THR	C	53:GLU	N	6.65
1	BA	197:ALA	C	198:GLU	N	6.65
1	B3	53:GLU	C	54:PHE	N	6.20
1	B5	51:LYS	C	52:THR	N	5.90
1	B3	46:GLU	C	47:ALA	N	5.72
1	BA	121:ALA	C	122:ALA	N	5.27
1	BD	28:PRO	C	29:ARG	N	4.93
1	B2	65:PRO	C	66:HIS	N	4.89
1	BB	101:PHE	C	102:ALA	N	4.84
1	B3	51:LYS	C	52:THR	N	4.52
1	AB	156:LEU	C	157:PRO	N	4.46
1	B3	50:GLU	C	51:LYS	N	4.37
1	AM	97:ARG	C	98:GLY	N	4.33
1	BF	40:THR	C	41:LYS	N	4.33
1	BS	84:PHE	C	85:ARG	N	4.25
1	B5	53:GLU	C	54:PHE	N	4.22
1	BG	72:THR	C	73:PRO	N	4.19
1	B2	158:GLY	C	159:GLN	N	4.17
1	BL	17:ARG	C	18:GLN	N	4.13
1	BA	203:VAL	C	204:LEU	N	4.06
1	BA	218:THR	C	219:VAL	N	3.93
1	BB	30:GLU	C	31:ALA	N	3.89
1	AB	95:TRP	C	96:LEU	N	3.79
1	BR	55:VAL	C	56:GLU	N	3.58
1	BR	87:LEU	C	88:LYS	N	3.48
1	BO	48:ASP	C	49:ARG	N	3.44

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BR	56:GLU	C	57:VAL	N	3.39
1	BJ	73:ILE	C	74:THR	N	2.98
1	BR	80:TRP	C	81:LYS	N	2.91
1	BF	58:LEU	C	59:ALA	N	2.86
1	AA	545:C	O3'	546:A	P	1.90
1	AA	424:G	O3'	425:G	P	1.86

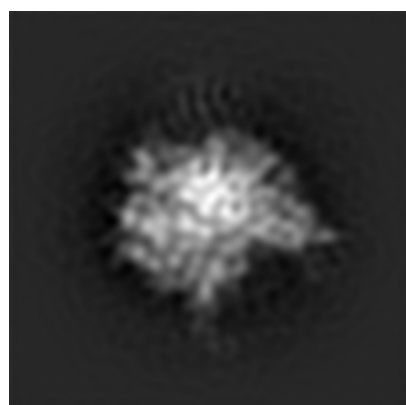
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1143. These allow visual inspection of the internal detail of the map and identification of artifacts.

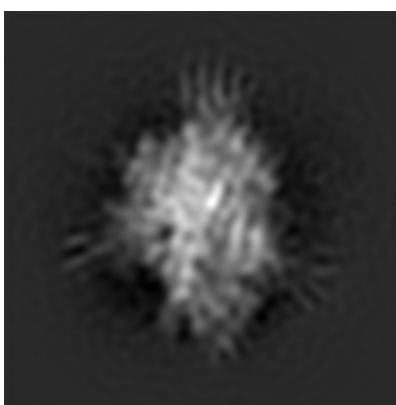
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

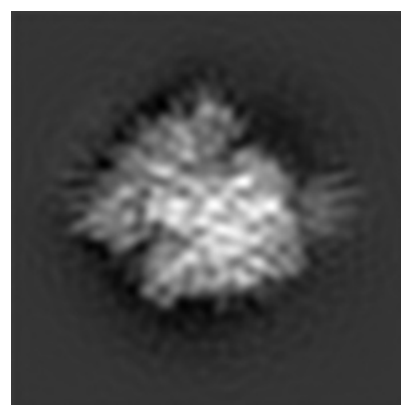
6.1.1 Primary map



X



Y

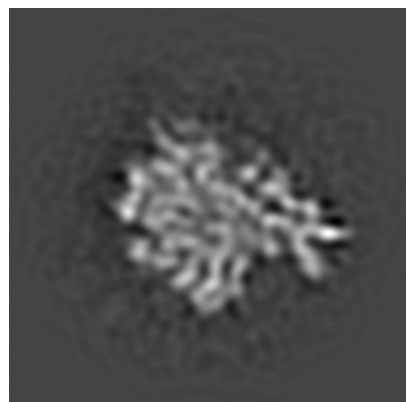


Z

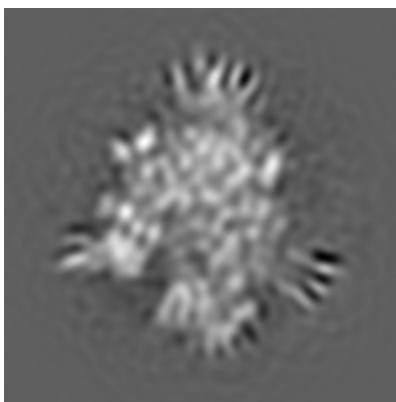
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

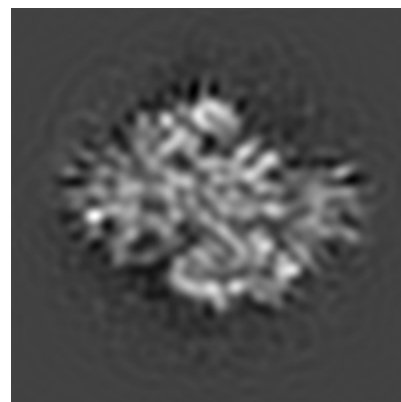
6.2.1 Primary map



X Index: 60



Y Index: 60

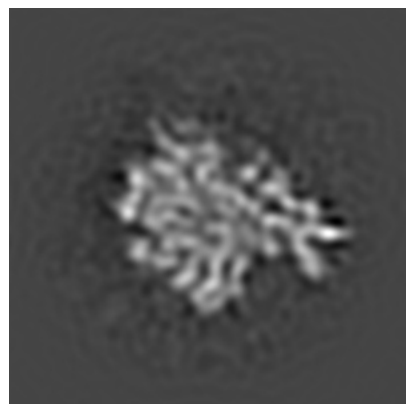


Z Index: 60

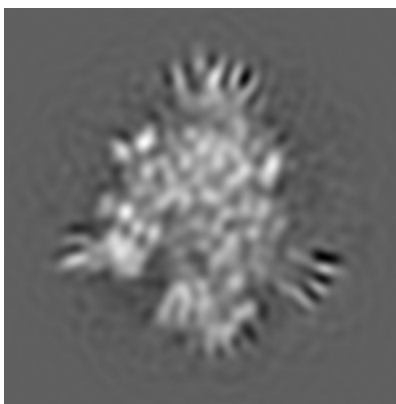
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 60



Y Index: 60

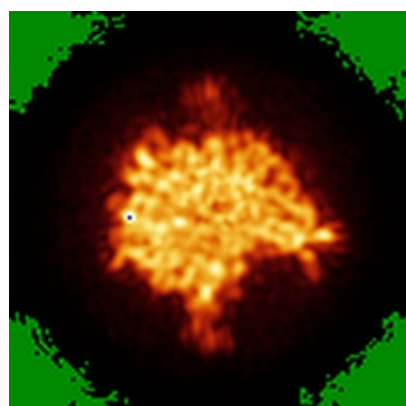


Z Index: 55

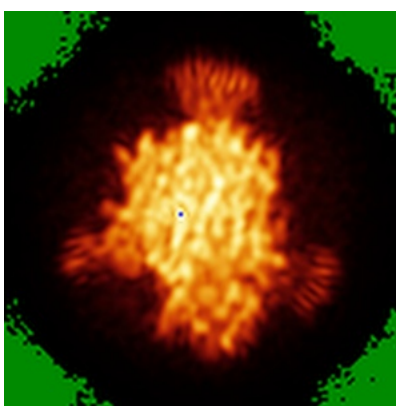
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

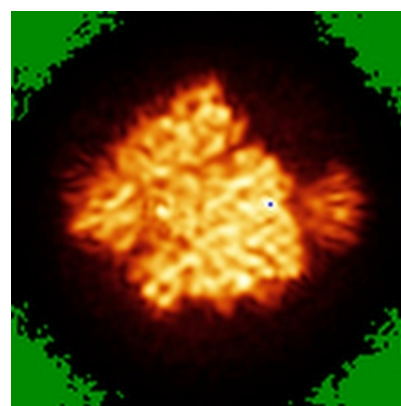
6.4.1 Primary map



X



Y

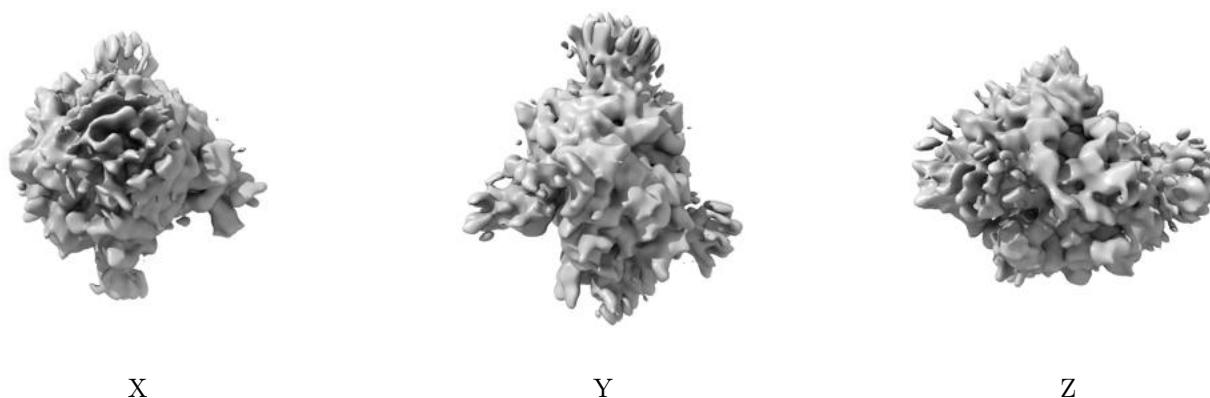


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 46.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

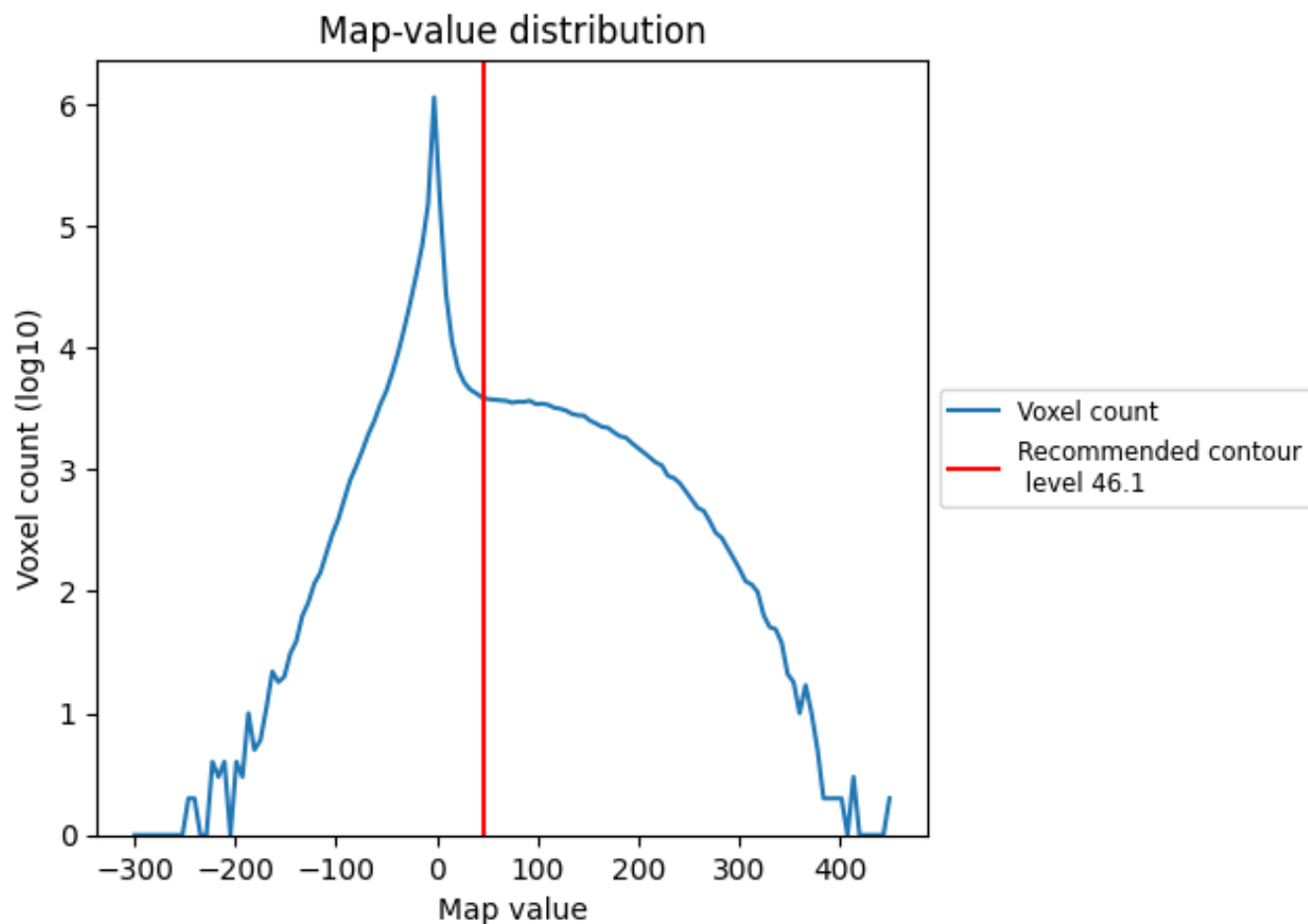
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

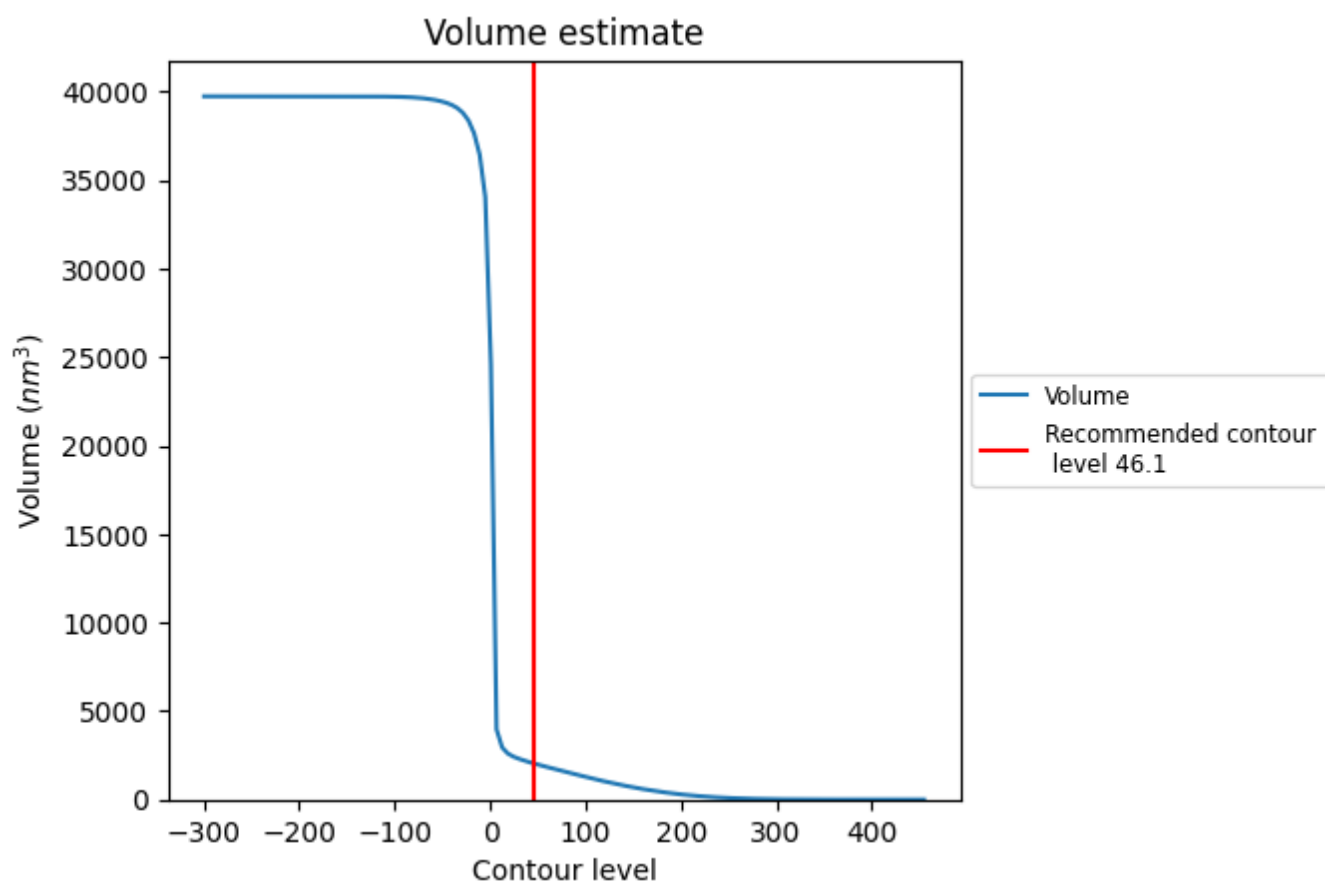
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

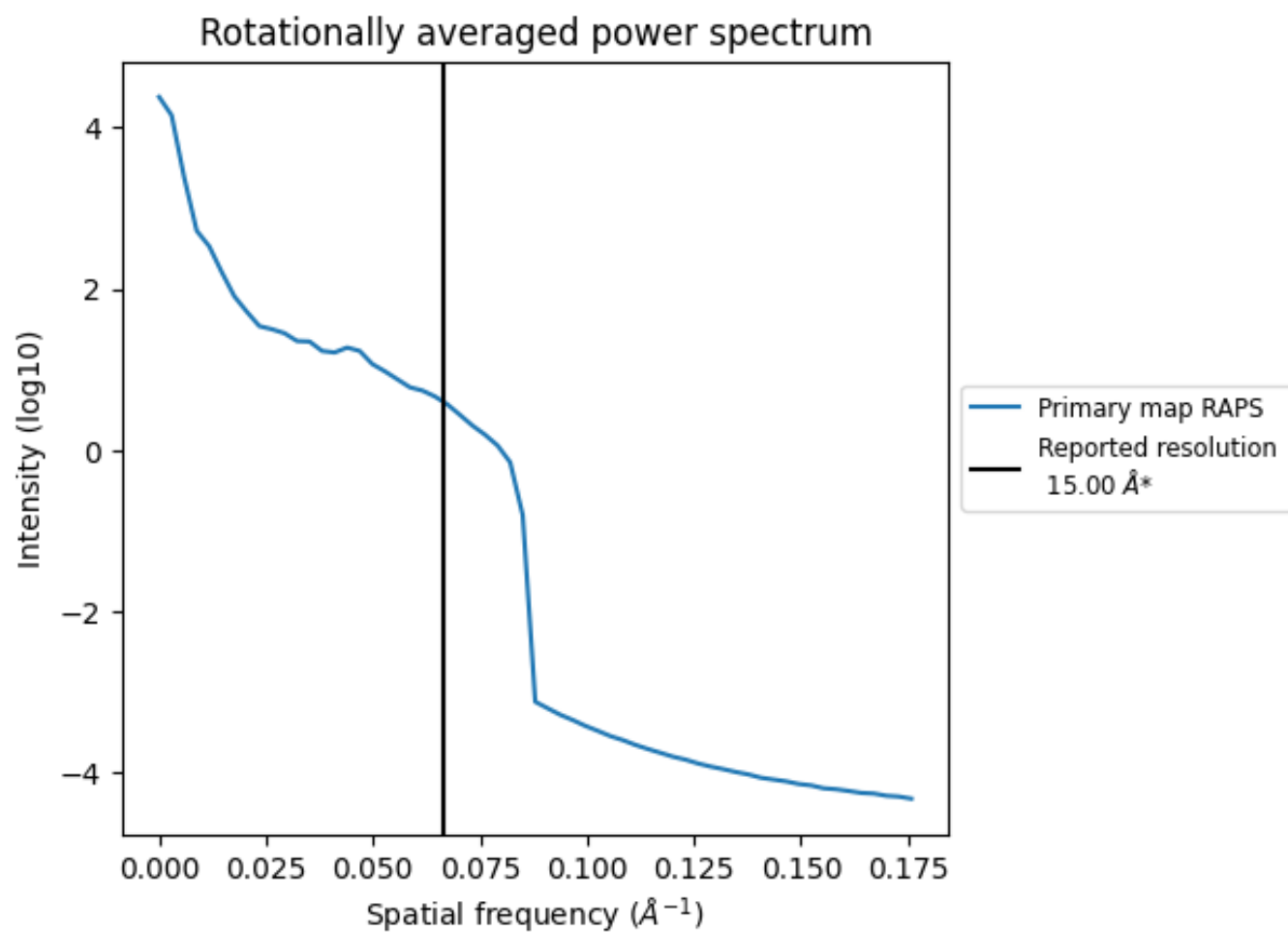
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2036 nm³; this corresponds to an approximate mass of 1839 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.067 Å⁻¹

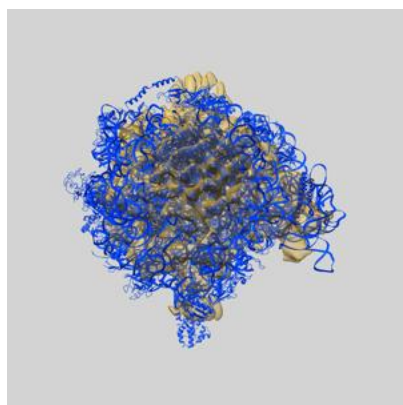
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

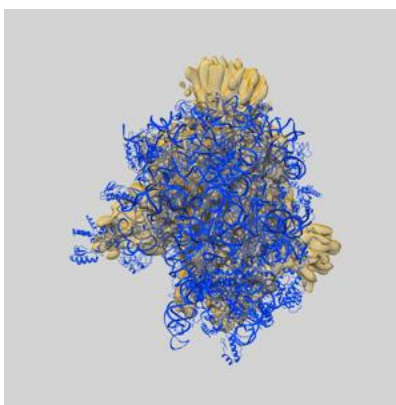
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1143 and PDB model 4V4W. Per-residue inclusion information can be found in section [3](#) on page [13](#).

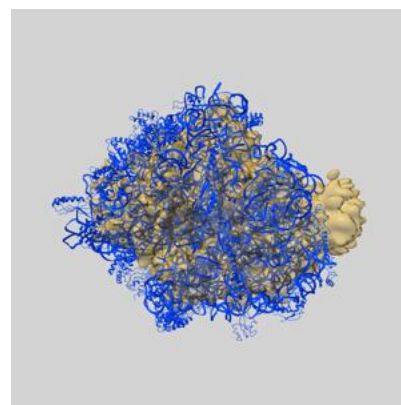
9.1 Map-model overlay [i](#)



X



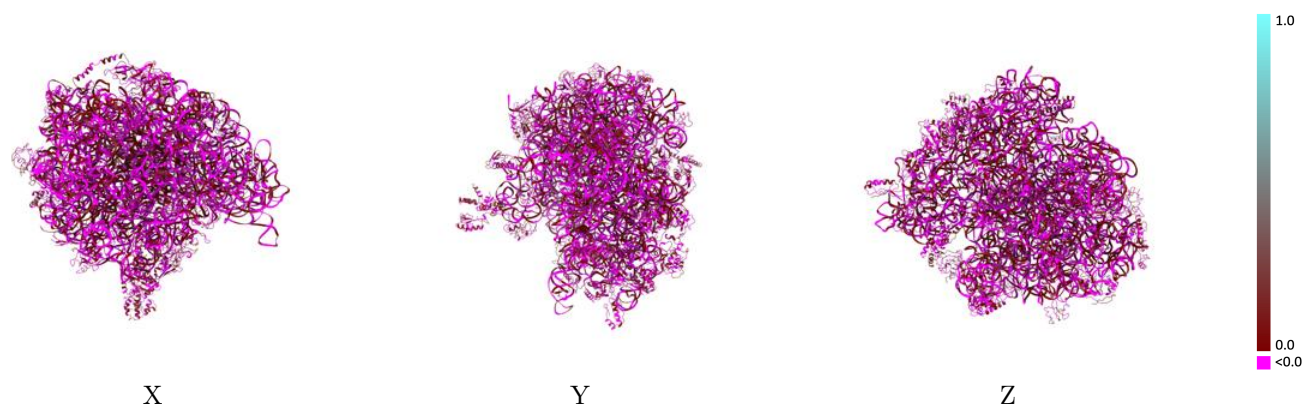
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 46.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)

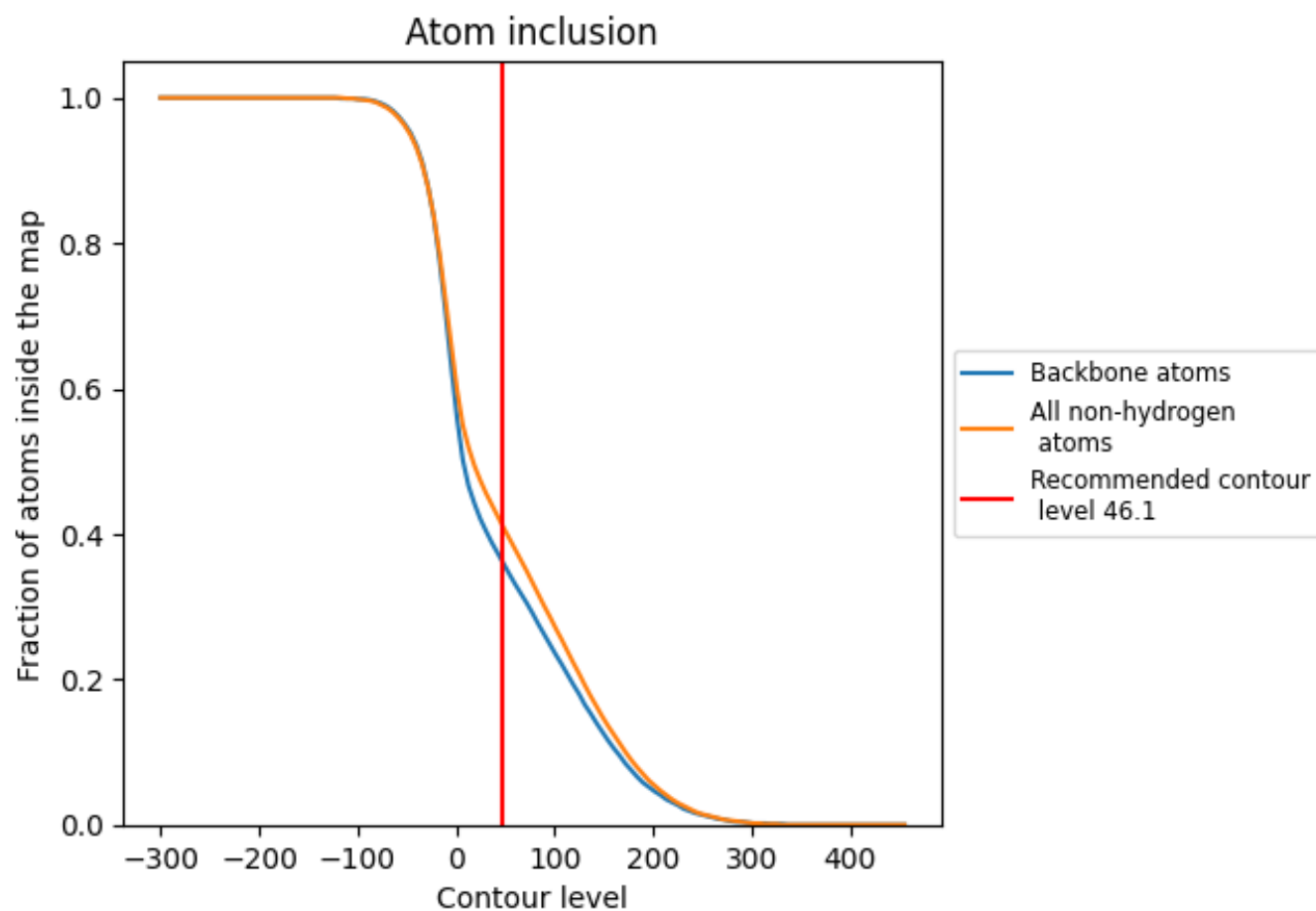


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 36% of all backbone atoms, 41% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (46.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4140	 -0.0040
AA	 0.4810	 -0.0010
AB	 0.0310	 -0.0070
AC	 0.1040	 -0.0250
AD	 0.0090	 0.0000
AE	 0.1210	 0.0140
AF	 0.0220	 -0.0130
AG	 0.0750	 -0.0370
AH	 0.0010	 -0.0130
AI	 0.2080	 0.0060
AJ	 0.2110	 0.0220
AK	 0.2570	 -0.0240
AL	 0.7140	 0.0080
AM	 0.1530	 0.0250
AN	 0.0000	 -0.0260
AO	 0.3140	 -0.0010
AP	 0.0120	 -0.0280
AQ	 0.1890	 0.0050
AR	 0.2690	 -0.0110
AS	 0.0490	 0.0110
AT	 0.2100	 -0.0150
AU	 0.5190	 0.0000
AV	 0.7420	 -0.0040
AW	 0.6260	 0.0160
B0	 0.5460	 -0.0060
B1	 0.0260	 -0.0240
B2	 0.0290	 -0.0080
B3	 0.2220	 0.0300
B5	 0.0400	 -0.0170
B9	 0.0570	 -0.0150
BA	 0.2170	 -0.0230
BB	 0.2590	 0.0080
BC	 0.3020	 0.0060
BD	 0.0590	 -0.0130
BE	 0.0550	 -0.0070



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Chain	Atom inclusion	Q-score
BF	 0.0280	 -0.0110
BG	 0.0140	 0.0060
BH	 0.1570	 -0.0050
BI	 0.5640	 -0.0000
BJ	 0.3780	 0.0150
BK	 0.4910	 -0.0190
BL	 0.2770	 0.0090
BM	 0.1030	 0.0080
BN	 0.1640	 -0.0370
BO	 0.4280	 0.0230
BQ	 0.4330	 -0.0150
BR	 0.4570	 0.0160
BS	 0.0470	 -0.0280
BT	 0.0680	 0.0110
BU	 0.3110	 -0.0010
BW	 0.1950	 0.0080
BX	 0.0380	 0.0030
BZ	 0.0000	 -0.0130