



Full wwPDB EM Validation Report ⓘ

Nov 16, 2022 – 02:21 PM EST

PDB ID : 7LT3
EMDB ID : EMD-23510
Title : NHEJ Long-range synaptic complex
Authors : He, Y.; Chen, S.
Deposited on : 2021-02-18
Resolution : 4.60 Å(reported)
Based on initial models : 2R9A, 6ERH, 5Y3R, 1JEY, 3II6, 6ZHA, 5LUQ

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.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

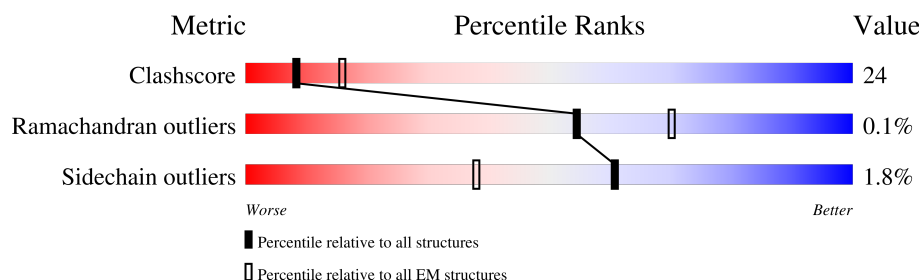
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 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.








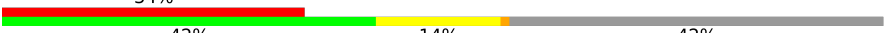
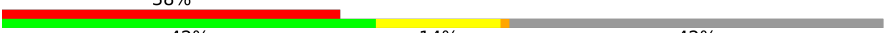





Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	A	609	<div> <div>6%</div> <div>39%</div> <div>42%</div> <div>18%</div> </div>
1	J	609	<div> <div>5%</div> <div>39%</div> <div>42%</div> <div>18%</div> </div>
2	B	732	<div> <div>15%</div> <div>39%</div> <div>33%</div> <div>27%</div> </div>
2	K	732	<div> <div>19%</div> <div>39%</div> <div>34%</div> <div>27%</div> </div>
3	C	4128	<div> <div>8%</div> <div>47%</div> <div>42%</div> <div>10%</div> </div>
3	L	4128	<div> <div>10%</div> <div>47%</div> <div>43%</div> <div>10%</div> </div>
4	Q	20	<div> <div>80%</div> <div>85%</div> <div>15%</div> </div>
4	R	20	<div> <div>65%</div> <div>85%</div> <div>15%</div> </div>

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Mol	Chain	Length	Quality of chain
5	D	31	 52% 45%
5	M	31	 48% 48%
6	E	30	 50% 47%
6	N	30	 53% 43%
7	F	336	 42% 48% 12% 37%
7	G	336	 34% 42% 14% 42%
7	O	336	 38% 42% 14% 42%
7	P	336	 38% 51% 11% 37%
8	H	299	 70% 61% 10% 25%
8	I	299	 62% 60% 10% 27%
9	X	911	 14% 19% 8% 72%
9	Y	911	 16% 20% 8% 72%

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 93244 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 protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	497	Total	C	N	O	S	0	0
			4021	2577	680	746	18		
1	J	497	Total	C	N	O	S	0	0
			4021	2577	680	746	18		

- Molecule 2 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	531	Total	C	N	O	S	0	0
			4259	2723	711	801	24		
2	K	531	Total	C	N	O	S	0	0
			4259	2723	711	801	24		

- Molecule 3 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	3720	Total	C	N	O	S	0	0
			29811	19106	5059	5451	195		
3	L	3720	Total	C	N	O	S	0	0
			29811	19106	5059	5451	195		

- Molecule 4 is a protein called Unknown peptide.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	Q	20	Total	C	N	O	0	0
			101	60	20	21		
4	R	20	Total	C	N	O	0	0
			101	60	20	21		

- Molecule 5 is a DNA chain called DNA (31-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	D	31	Total	C	N	O	P	0	0
			634	304	113	186	31		
5	M	31	Total	C	N	O	P	0	0
			634	304	113	186	31		

- Molecule 6 is a DNA chain called DNA (30-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	E	30	Total	C	N	O	P	0	0
			616	295	110	181	30		
6	N	30	Total	C	N	O	P	0	0
			616	295	110	181	30		

- Molecule 7 is a protein called DNA repair protein XRCC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	F	213	Total	C	N	O	S	0	0
			1736	1093	308	327	8		
7	G	195	Total	C	N	O	S	0	0
			1595	1012	272	304	7		
7	O	195	Total	C	N	O	S	0	0
			1595	1012	272	304	7		
7	P	213	Total	C	N	O	S	0	0
			1736	1093	308	327	8		

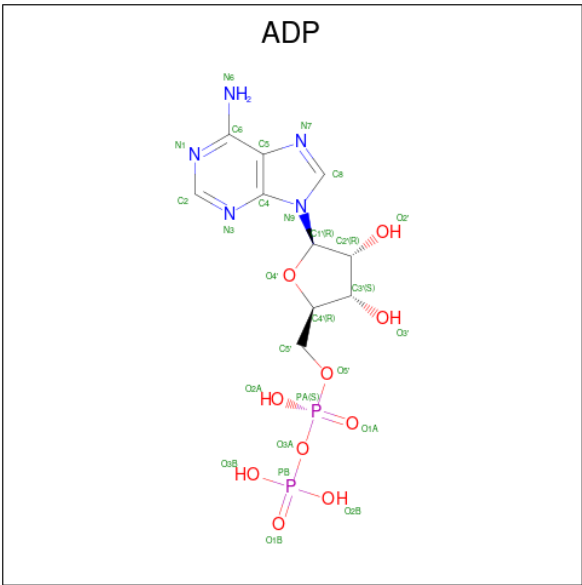
- Molecule 8 is a protein called Non-homologous end-joining factor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	223	Total	C	N	O	S	0	0
			1779	1140	298	326	15		
8	I	218	Total	C	N	O	S	0	0
			1737	1111	290	321	15		

- Molecule 9 is a protein called DNA ligase 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	X	254	Total	C	N	O	S	0	0
			2064	1314	348	389	13		
9	Y	254	Total	C	N	O	S	0	0
			2064	1314	348	389	13		

- Molecule 10 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).

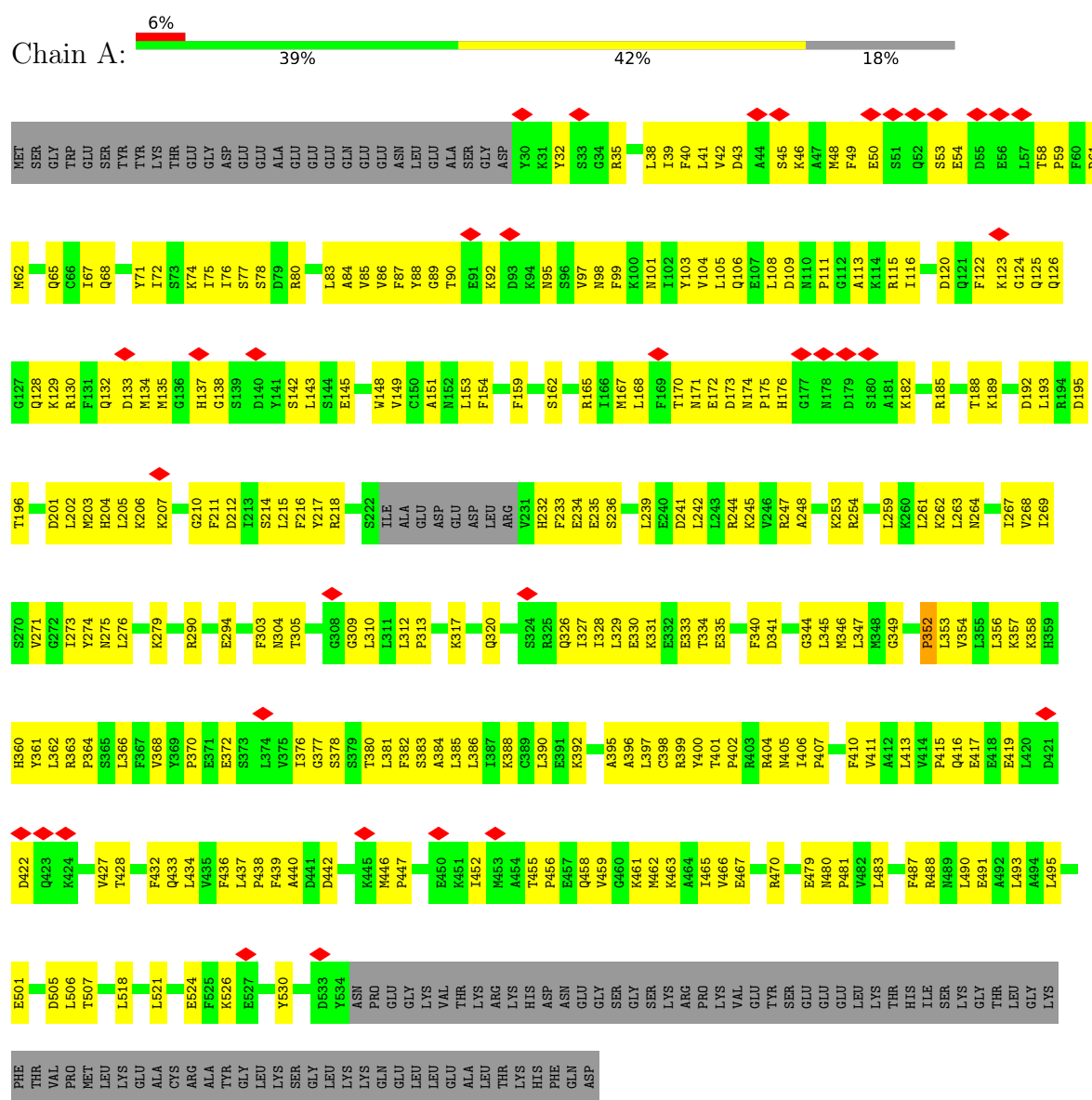


Mol	Chain	Residues	Atoms					AltConf
10	C	1	Total	C	N	O	P	0
			27	10	5	10	2	
10	L	1	Total	C	N	O	P	0
			27	10	5	10	2	

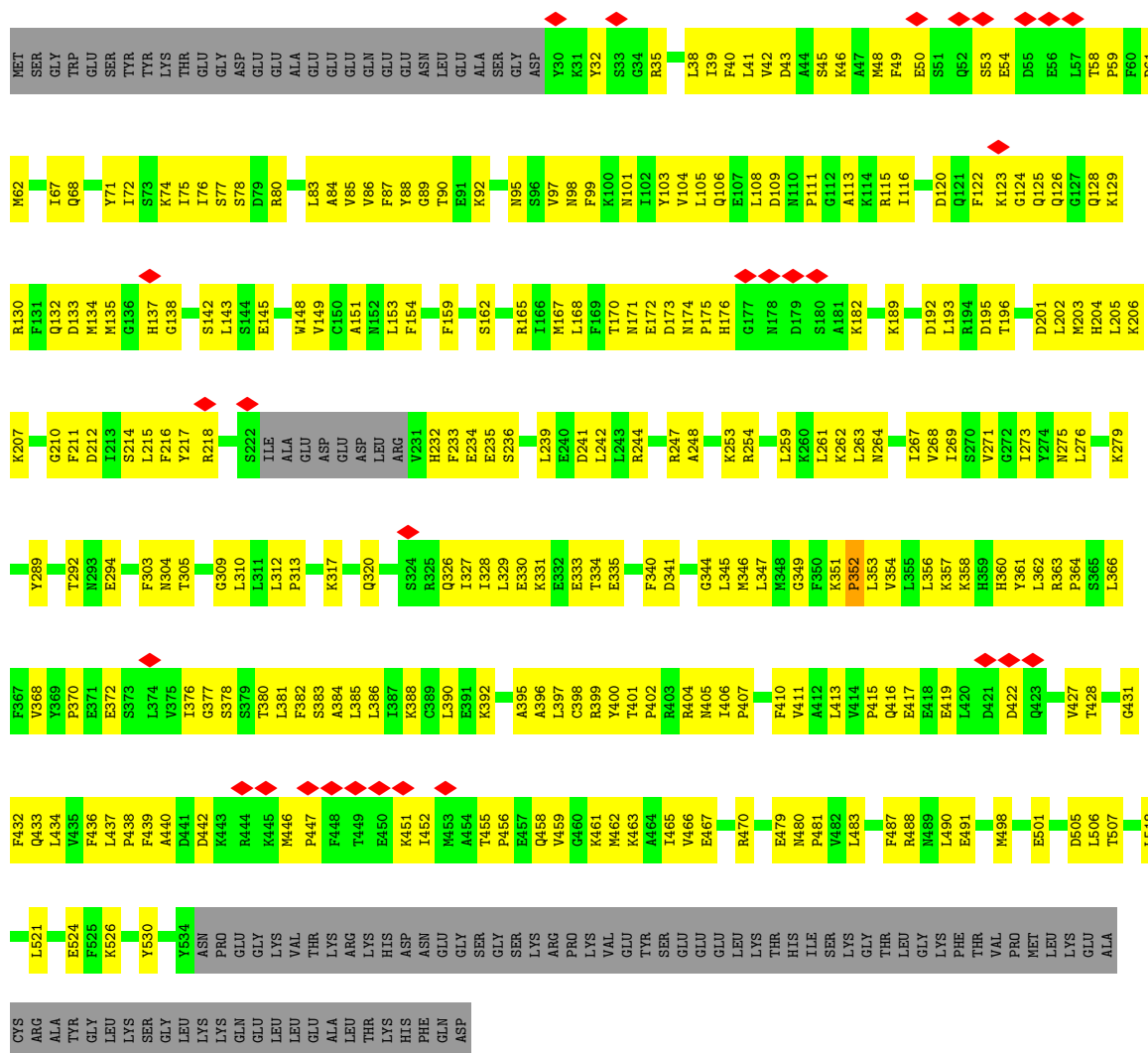
3 Residue-property plots

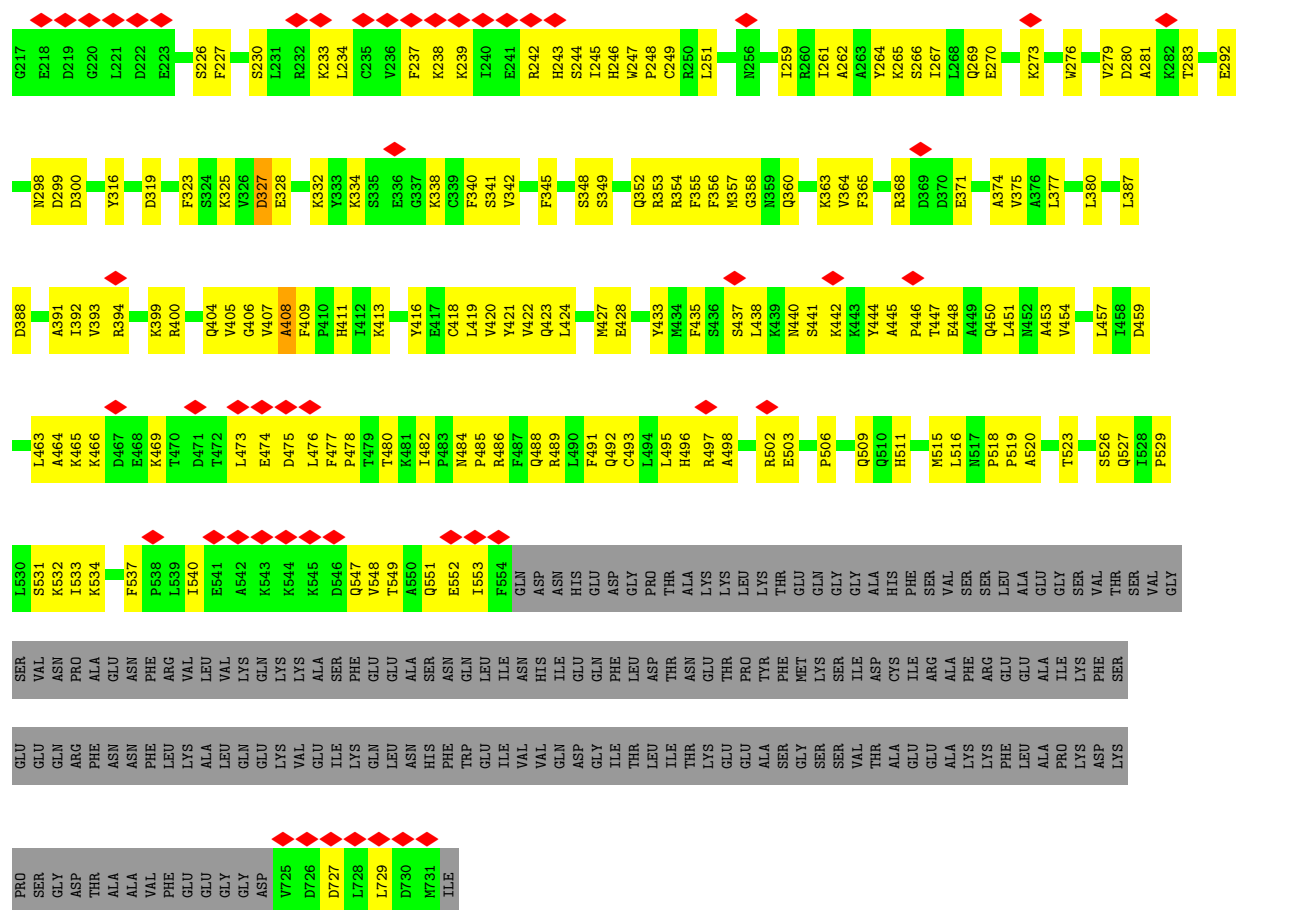
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: X-ray repair cross-complementing protein 6

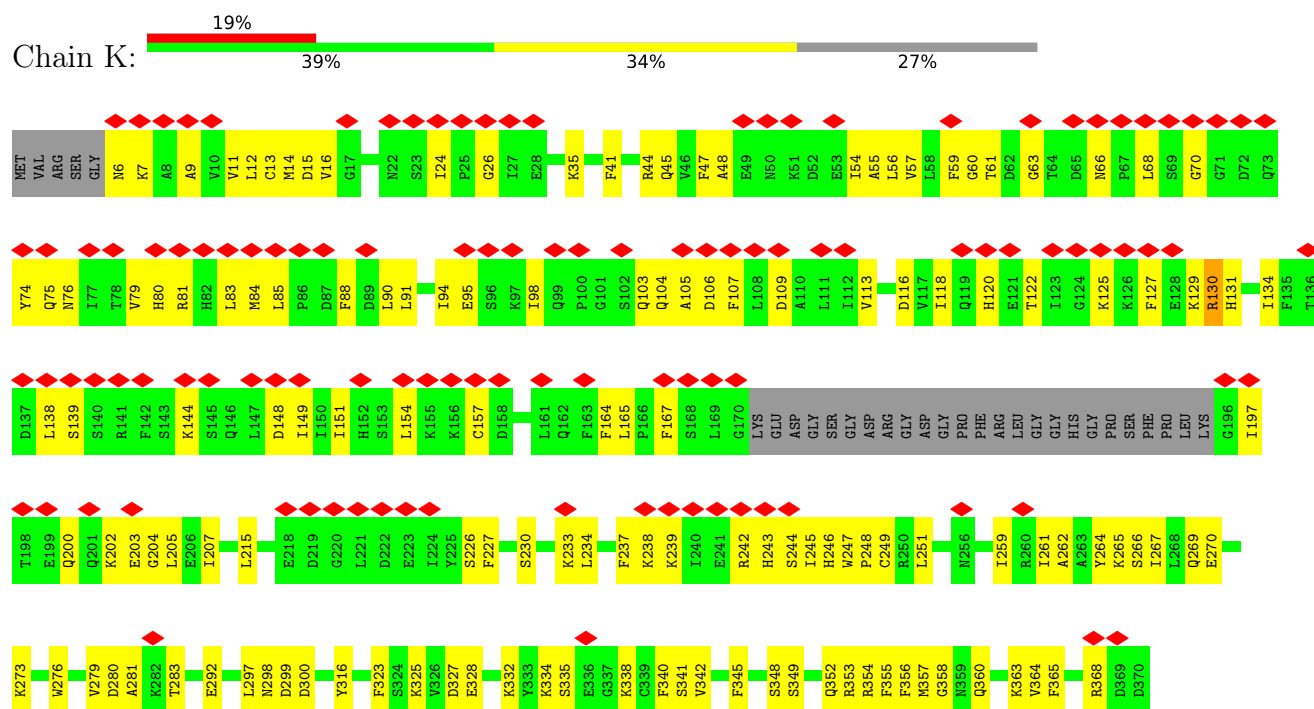


- Molecule 1: X-ray repair cross-complementing protein 6





• Molecule 2: X-ray repair cross-complementing protein 5





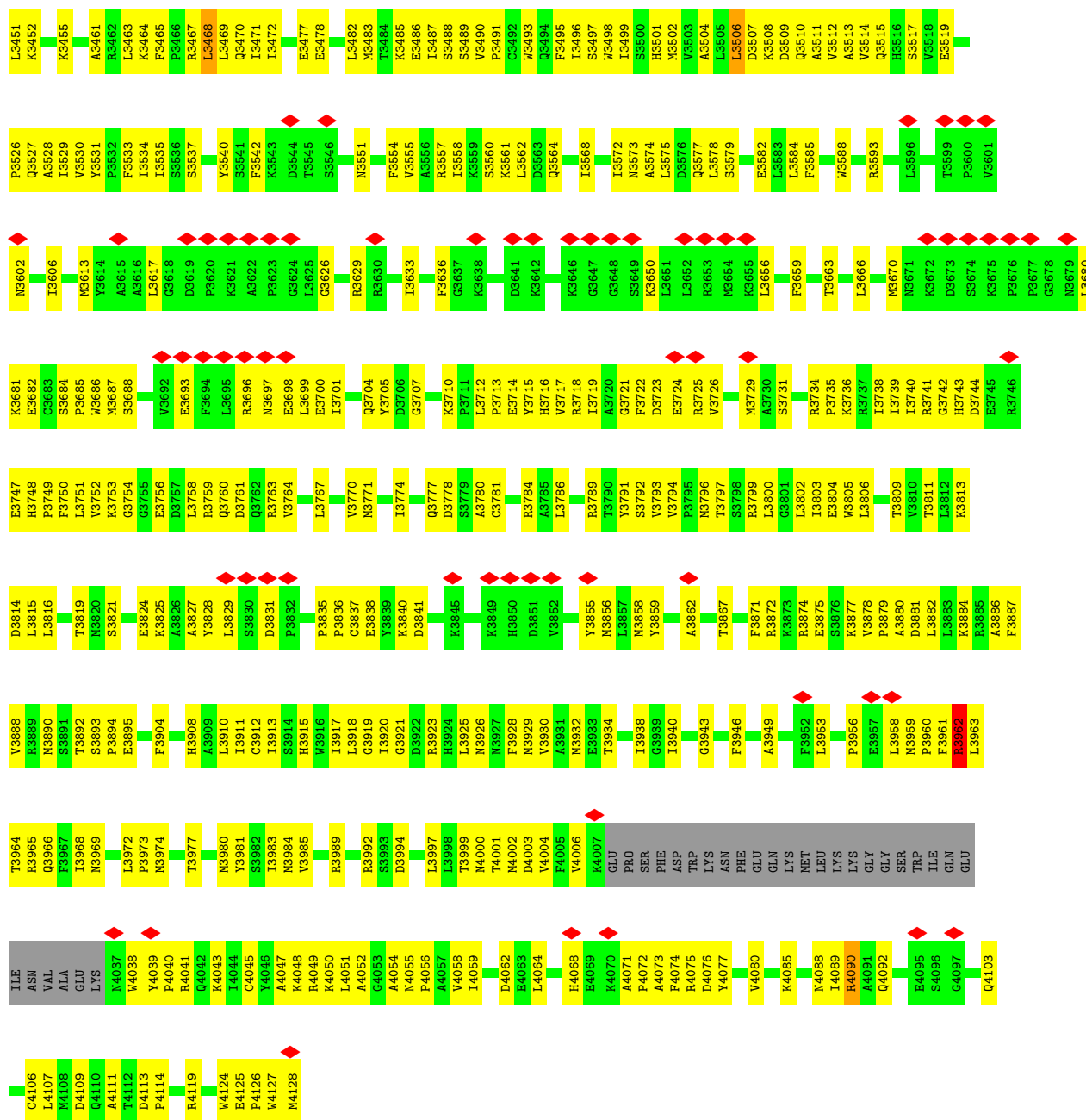
F2487	T2395	Y2299	R2228	P2159	L2097	L1975	E1910	I1848	R1783	E1708	S1637
E2488	I2398	A2302	N2234	Y2160	T2098	L1976	L1911	D1849	R1784	E1709	P1638
S2489		L2303	K2162	A2161	A2099	F1977	T1912		I1785	L1710	L1639
E2490	L2402	N2305	I2237	K2163	L2100	E1979	K1913	K1852	I1786	R1711	E1640
T2491	C2403	N2306	I2238	W2164	N2104	N1980	T1914	S1853	R1787	V1713	T1641
T2492	R2404	N2307	K2239	L2165	L2105	L1981	L1915	R1854	R1788	Q1716	K1642
N2493	E2405	S2308	T2240	S2166	R2106	D1982	L1916	F1855	G1789	L1717	L1649
D2494	L2241	W2242	V2242	T2167	S2107	D1983	K1917	T1856	C1791	I1718	K1650
Q2495	M2408	E2243	L2168	L2169	S2107	L1984	C1919	K1857			K1651
Q2496		C2244	L2108		L2108	K1985	Y1920	L1858	F1722	F1722	I1652
K2500	L2411	W2245	GLY	E2175	GLY	R1986	D1921	N1859	M1723	M1723	L1653
K2503	Q2414	K2246	PRO	N2176	PRO	R1987	A1922	E1860	Q1724	Q1724	Q1654
K2506	L2415	C2247	GLN	N2177	GLN	F1990	F1923	S1861	G1795	G1795	D1656
L2506	S2417	C2248	TYR	G2178	TYR	P1991	M1927	D1863	L1797	L1797	I1655
L2507	K2416	L2249	SER	G2179	GLY	V1992	A1928	D1864	Q1725	Q1725	S1657
Q2508	D2418	L2251	TYR	E2180	GLY	GLU	G1929	T1865	R1727	R1727	S1658
Q2509	D2419	F2252	SER	G2181	ASP	VAL	E1930	Q1866	V1801	E1728	V1659
L2510	F2421	Y2253	GLU	I2182	VAL	GLU	N1931	T1867	I1867	P1730	S1660
D2512	Q2422	I2183	ASP	P2119	PRO	VAL	Q1932	K1869	M1803	P1731	F1661
E2513	H2426	H2184	PRO	R2120	MET	PRO	L1933	K1870	F1805	G1732	N1662
N2514		M2185	ARG	D2121	GLU	MET	L1934	M1871	R1806	F1736	T1663
P2515	D2437	V2186	PRO	L2122	ARG	GLU	E1935	G1872	K1807	N1737	S1664
G2516	M2443	K2259	ALA	P2123	LYS	ARG	R1936	D1873	D1808	D1741	H1665
L2517		F2260	LYS	S2124	LYS	LYS	R1937	Y1874	D1809	K1744	G1666
Q2518		S2261	GLY	W2125	TYR	TYR	R1938	K1875	P1810	K1745	S1667
L2519	L2446	G2262	ARG	K2126	ILE	ILE	Y1940	I1877	R1811	D1746	F1668
L2520		K2263	ARG	K2127	GLU	GLU	H1941	L1878	L1812	F1747	P1669
L2521		D2264	ARG	F2128	ILE	ILE	C1942	V1879	F1814	L1747	E1670
F2524	E2450	K2268	GLU	L2129	ARG	ARG	A1943	D1880	T1815	D1748	V1671
W2525	R2451	D2269	GLN	H2130	GLU	GLU	A1944	R1883	R1816	A1749	Y1675
T2529	L2454	S2271	ASP	G2131	ARG	ALA	Y1945	L1884	F1819	L1750	I1676
L2531			PRO	K2132	THR	GLU	C1947	P1895	E1751	L1752	S1677
E2536	P2457	T2197	THR	L2133	VAL	ALA	V1951	K1886	D1821	S1755	L1678
D2537	V2458	G2198	HTS	G2134	ASP	ASN	I1952	D1887	R1822	L1758	D1681
R2538	V2459	G2199	ASP	W2135	ASP	GLY	V1955	V1888	S1823	L1759	K1682
L2539	H2464	L2199	ASP	P2136	ASP	ASP	F1956	D1889	L1824	E1760	K1683
L2542	P2465	Q2275	VAL	L2137	VAL	ASP	N1957	H1890	L1827		L1684
L2543	S2466	L2276	LEU	V2138	LEU	GLY	E1958	A1891	L1827		L1688
L2545		G2278	LEU	P2139	GLY	GLY	L1959	K1892	W1829	T1763	K1689
P2548	R2470	I2279	GLU	L2140	GLY	PRO	L1960	E1893	H1830	E1764	V1693
N2543	Q2471	D2280	M2085	L2141	THR	TYR	F1961	S1894	C1831	V1765	T1694
S2544	M2473	M2281	D2086	K2142	ASP	MET	Y1962	K1895	C1832	L1766	L1695
L2545	Y2474	G2282	E2087	P2143	ASP	SER	Q1963	I1896	S1832	C1767	L1696
P2548	N2475	L2283	R2090	L2144	ASP	LEU	G1964	N1897	L1833	E1769	P1697
K2549	L2476	D2284	H2091	L2145	LEU	SER	F1965	Q1898	D1834	Q1770	F1699
E2551	M2478	L2285	E2092	L2146	TYR	TYR	L1966	V1899	A1835	Q1771	T1700
E2551	W2479	G2291	C2093	L2150	LEU	LEU	F1967	F1900	L1836	H1772	S1701
W2552	I2480	F2292	M2094	L2151	ALA	ALA	S1968	H1901	L1837	V1773	L1702
H2553		Q2295	A2095	L2152	ASP	ASP	E1969	G1902	E1838	M1774	T1703
F2554		Q2296	P2096	T2153	THR	THR	K1970	S1903	F1840	F1778	G1704
L2555	R2485	E2298		E2154			P1971	C1904	T1842		G1705
S2556	D2486			E2155			E1972	I1905	S1706		L1707
L2557				E2156			K1973	E1907	V1844		
				F2157			N1974	G1908			
				R2158				N1909			



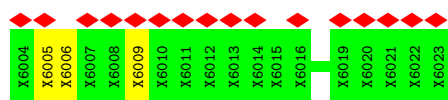
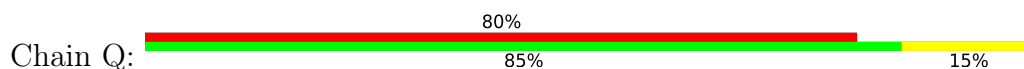
C1399	E1326	W1256	G1177	A1112	R1034	L942	M658	D781	V714	Y647	V672	SER
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M1403	Y1332	L1260	P1179	A1114	F1036	T946	S861	M785	A716	S649	K574	GLU
K1404	S1333	L1261	T1181	S1120	L1037	Q947	G863	Y788	K717	F649	I575	ASP
L1405	A1262	A1262	E1182	L1121	W1038	M948	G863	Y789	M718	S650	V576	HIS
L1406	C1334	A1263	C1183	L1122	W1039	Q949	G864	Y790	K577	Y651	E577	ARG
K1407	G1335	L1264	R1184	T1123	I1044	E950	Q865	K790	K721	E652	K578	ALA
M1408	T1336	E1265	I1188	I1124	T1045	G951	T866	K791	K722	L654	L579	SER
S1409	V1337	C1266	I1188	Q1125	Q1046	G952	K867	Y792	D723	L655	I585	GLY
P1410	Y1267	Y1267	F1191	Q1126	Q1047	Q953	K868	Y793	E724	L655	I585	GLU
Y1411	F1191	T1268	F1191	C1127	Q1048	Q953	K868	Y794	L726	L655	I585	VAL
D1412	F1194	T1269	F1194	C1128	Q1049	P957	V673	C795	L726	L655	I585	ARG
D1413	V1195	F1270	F1194	D1129	E1050	P957	T874	C795	C729	L655	I585	THR
L1414	P1196	L1271	V1195	D1129	K1051	Y962	S875	D797	F732	L662	I663	GLY
L1415	L1197	G1272	L1197	I1131	S1052	Y962	G863	C798	L733	I663	I663	GLN
L1416	L1197	E1273	L1197	D1132	P1053	Y962	G863	C798	L733	I663	I663	TRP
T1417	L1198	E1273	L1198	H1133	S1053	Y962	G863	C798	L733	I663	I663	LYS
H1418	R1274	R1274	P1199	L1134	F1060	T965	M879	Y799	L734	G665	F666	VAL
L1419	T1275	V1276	G1200	L1135	F1060	T965	M880	K801	S735	F666	F666	ASP
R1420	G1277	G1277	M1201	C1135	Y1064	F966	W886	L805	L736	K668	T523	P522
E1421	G1277	G1277	M1201	C1135	Y1064	F966	W886	L805	L736	K668	T523	P522
E1422	M1205	A1278	M1205	I1137	Y1064	F966	W886	L805	L736	K668	T523	P522
I1423	L1208	L1281	L1208	I1138	H1069	V668	R888	ASP	V674	K668	T523	P522
T1424	K1209	L1282	L1208	E1139	P1070	V668	R888	ASP	V674	K668	T523	P522
A1425	K1209	L1282	L1208	E1139	P1070	V668	R888	ASP	V674	K668	T523	P522
K1426	D1210	Q1287	D1210	K1141	A1071	L970	R891	GLU	A677	K678	P617	F531
Q1426	L1211	S1288	V1211	H1142	A1072	L970	R891	GLU	A677	K678	P617	F531
S1427	L1212	S1288	V1211	H1142	F1073	L970	R891	GLU	A677	K678	P617	F531
E1430	L1359	S1289	L1359	V1143	K1074	G974	F894	TRP	K679	I680	S637	H533
L1431	D1362	K1292	G1216	L1145	R1075	V976	V896	E814	K679	I680	S637	H533
G1432	M1365	A1293	E1225	M1146	R1075	V976	V896	E814	K679	I680	S637	H533
A1433	T1366	V1294	E1225	M1146	R1075	V976	V896	E814	K679	I680	S637	H533
V1434	H1367	F1297	G1229	K1149	F1082	Y884	E985	K824	A609	A610	N611	M540
N1435	L1368	L1298	G1229	K1149	F1082	Y884	E985	K824	A609	A610	N611	M540
L1436	M1369	F1297	G1229	K1149	F1082	Y884	E985	K824	A609	A610	N611	M540
Y1437	R1370	L1298	G1229	K1149	F1082	Y884	E985	K824	A609	A610	N611	M540
G1438	V1373	I1301	Q1231	R1151	I1085	Q930	L907	L831	A615	K616	P617	I5E
P1439	L1376	A1302	Q1231	R1151	I1085	Q930	L907	L831	A615	K616	P617	I5E
D1440	P1379	M1303	Q1231	R1151	I1085	Q930	L907	L831	A615	K616	P617	I5E
A1441	I1382	H1304	S1233	R1155	E1091	W994	R913	K836	S761	HIS	F620	ASP
Q1442	F1383	D1305	E1235	I1235	E1092	L1009	L919	K836	S761	HIS	F620	ASP
V1443	F1384	I1306	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
D1444	M1385	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
R1445	G1387	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
S1446	D1388	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
R1447	V1391	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
L1448	M1392	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
A1449	L1395	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
V1452	P1396	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
C1455	Q1457	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
K1456	L1458	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
H1459	R1460	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
R1460	A1461	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP
G1462	G1462	I1307	L1236	L1236	E1093	L1009	L919	K836	S761	HIS	F620	ASP



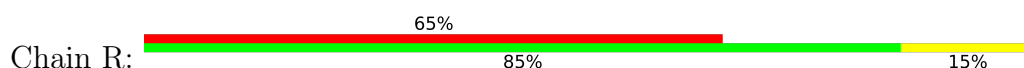


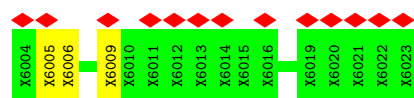


• Molecule 4: Unknown peptide

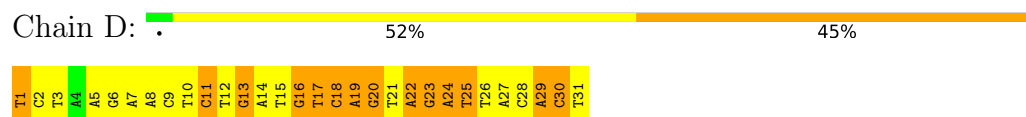


• Molecule 4: Unknown peptide

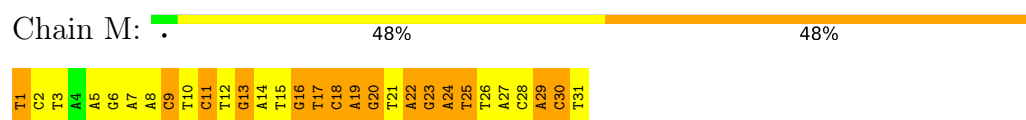




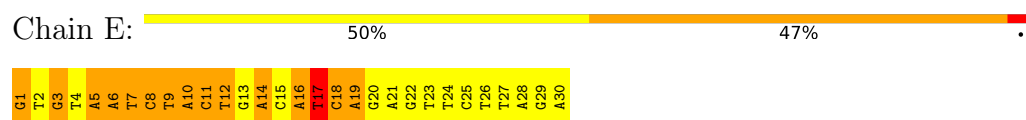
• Molecule 5: DNA (31-MER)



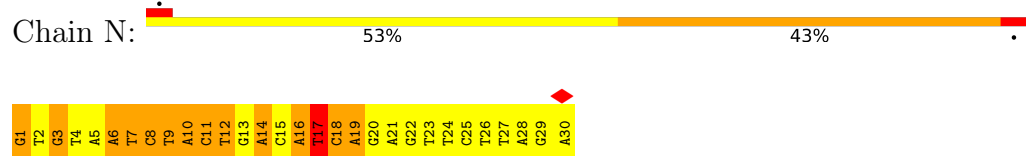
• Molecule 5: DNA (31-MER)



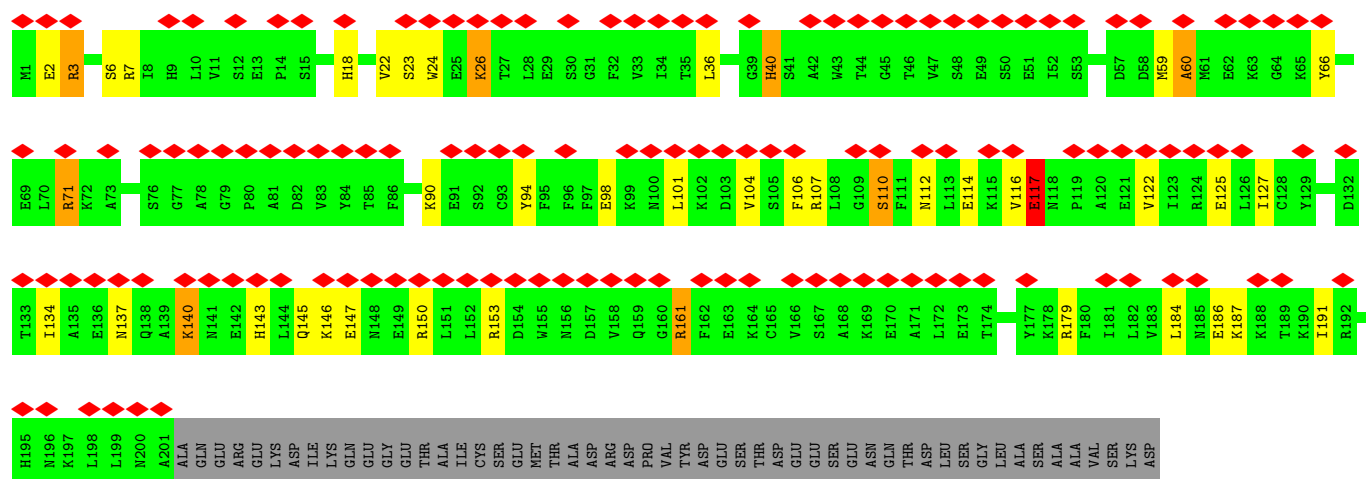
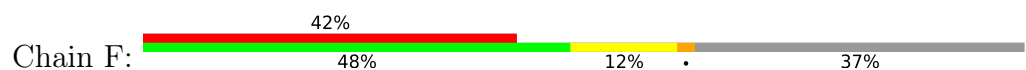
• Molecule 6: DNA (30-MER)



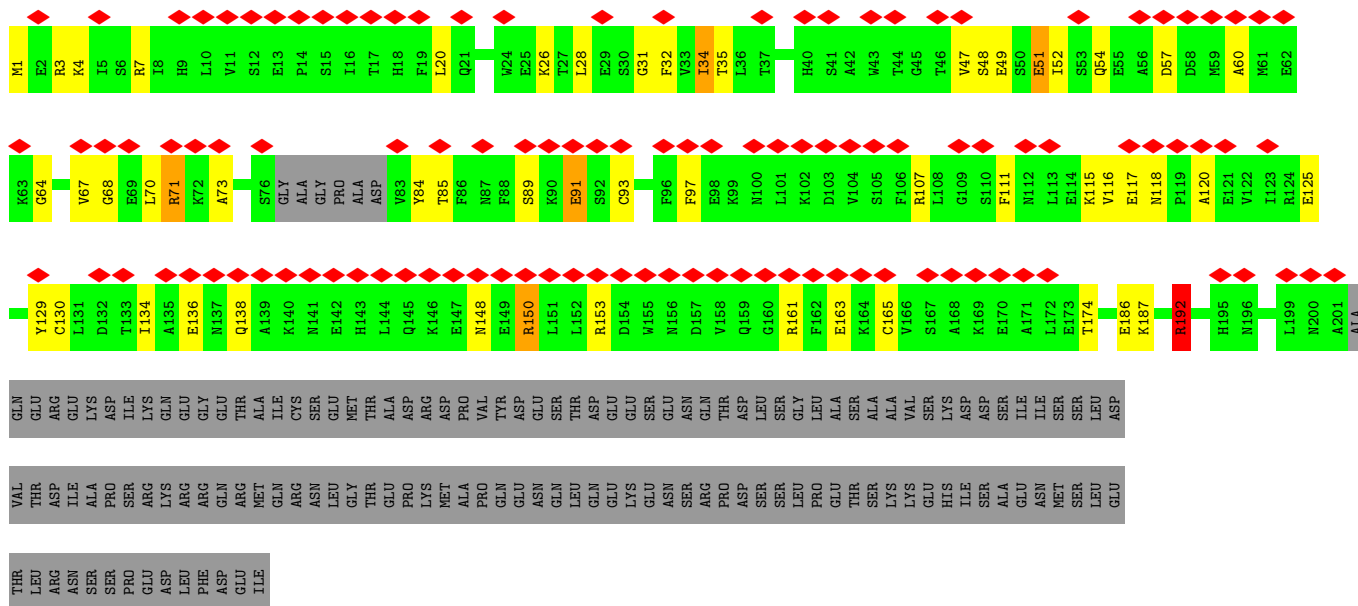
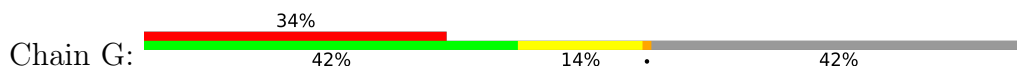
• Molecule 6: DNA (30-MER)



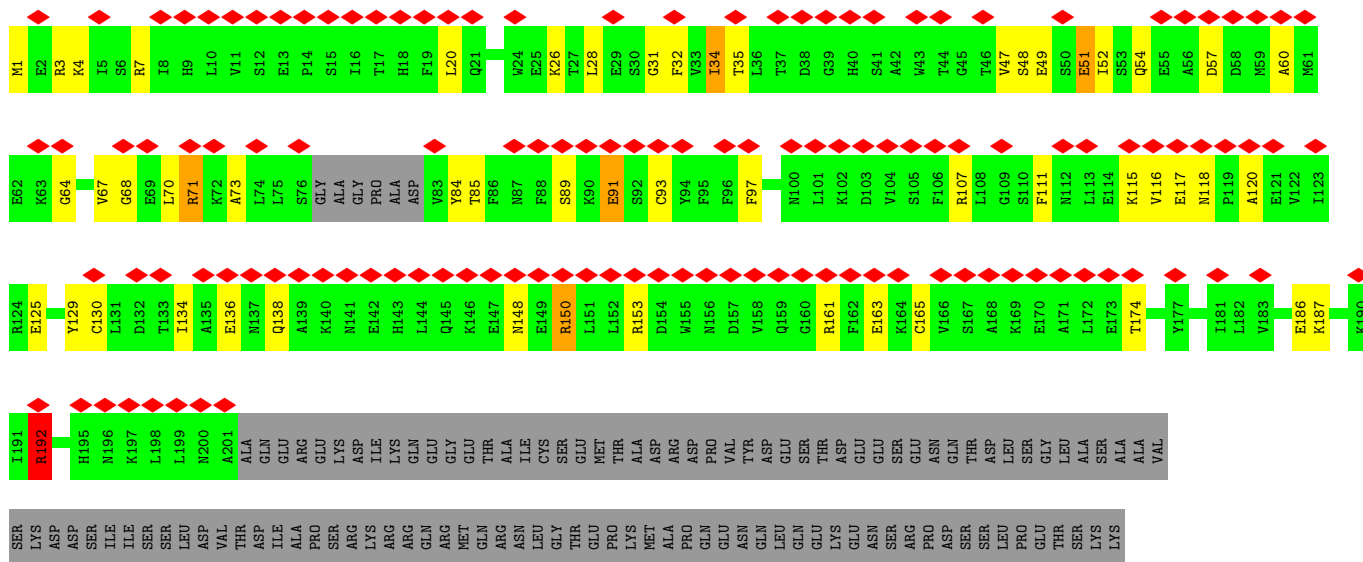
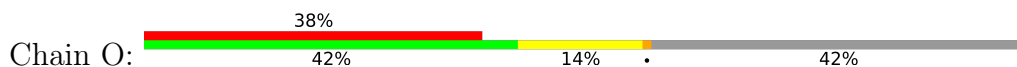
• Molecule 7: DNA repair protein XRCC4



- Molecule 7: DNA repair protein XRCC4



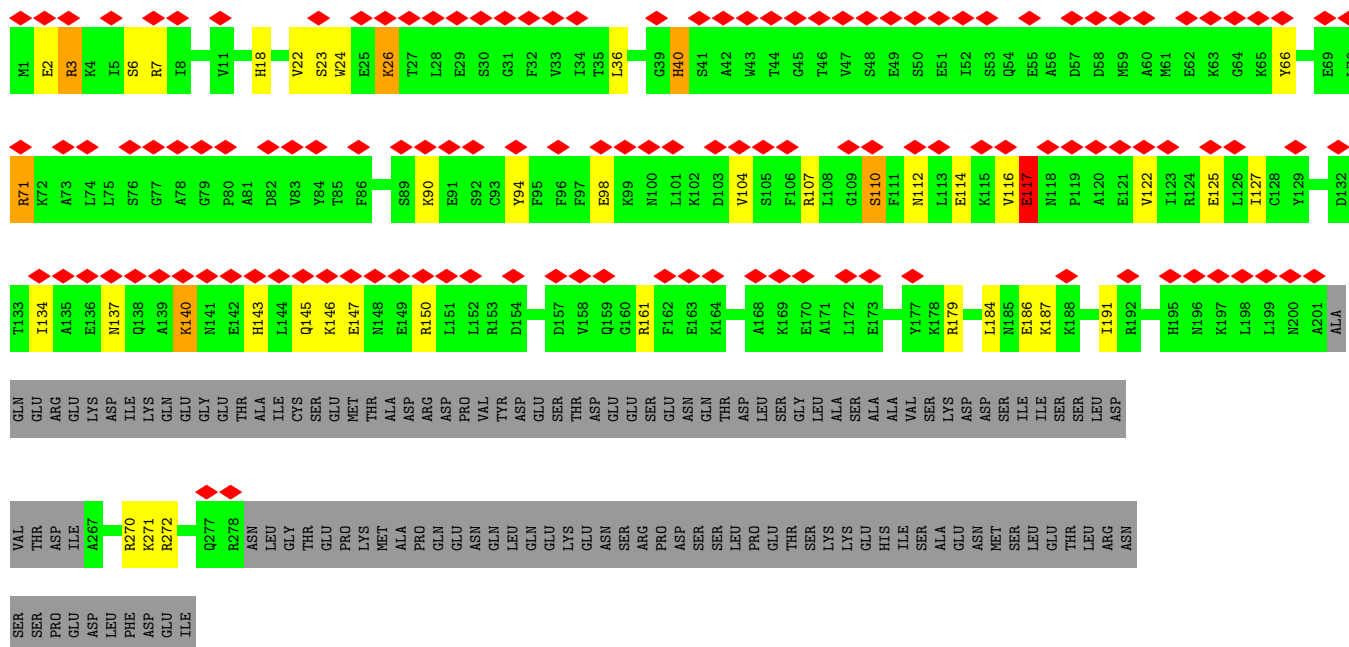
- Molecule 7: DNA repair protein XRCC4



GLU HIS
ILE ILE
SER SER
ALA ALA
GLU GLU
ASN ASN
MET MET
SER SER
LEU LEU
THR THR
LEU LEU
ARG ARG
ASN ASN
SER SER
SER SER
PRO PRO
GLU GLU
ASP ASP
LEU LEU
PHE PHE
ASP ASP
GLU GLU
ILE ILE

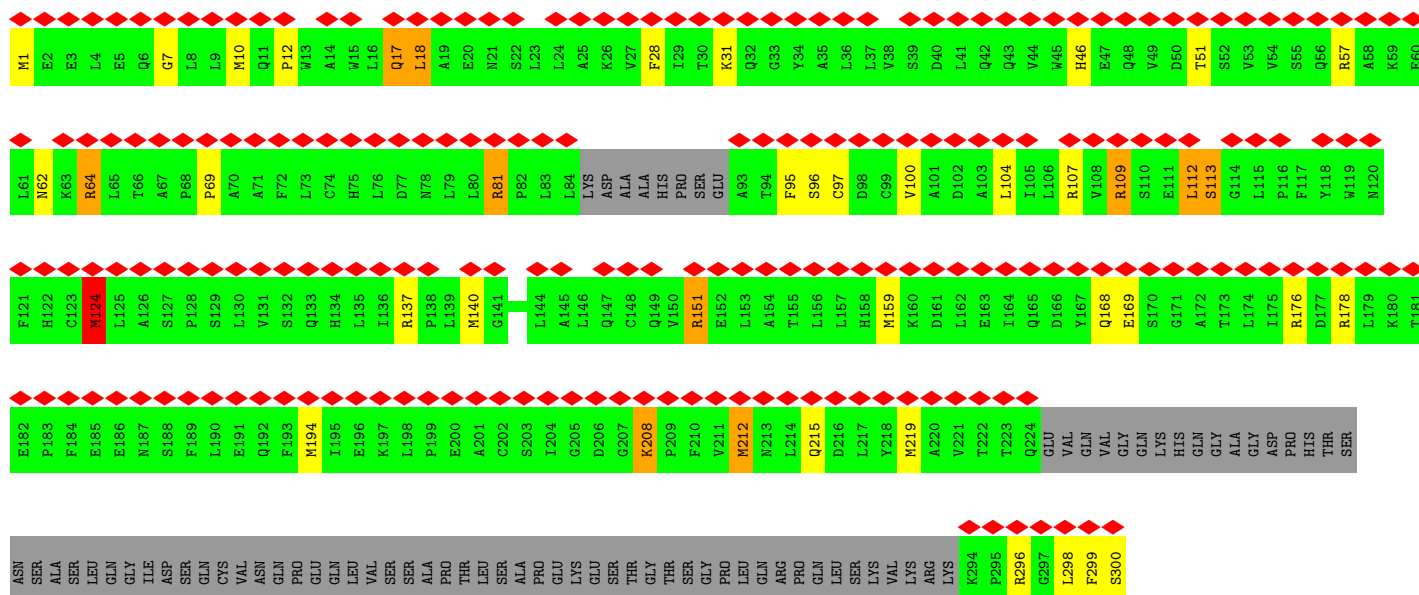
• Molecule 7: DNA repair protein XRCC4

Chain P: 38% 51% 11% 37%

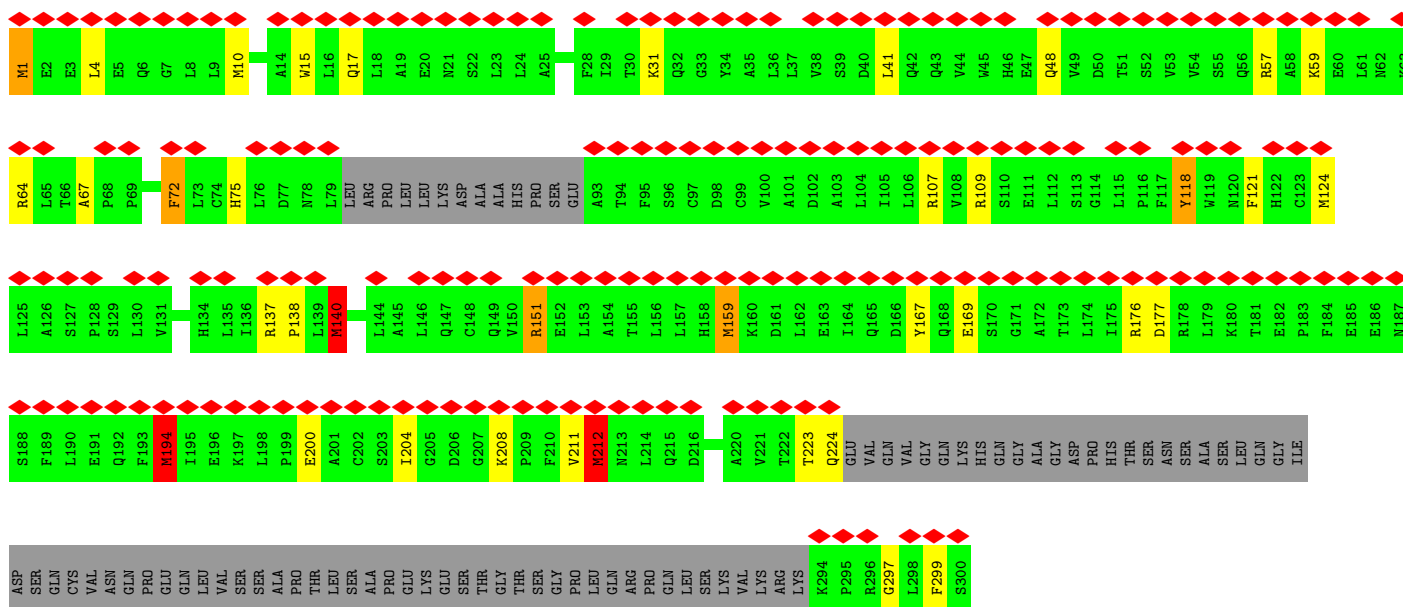


• Molecule 8: Non-homologous end-joining factor 1

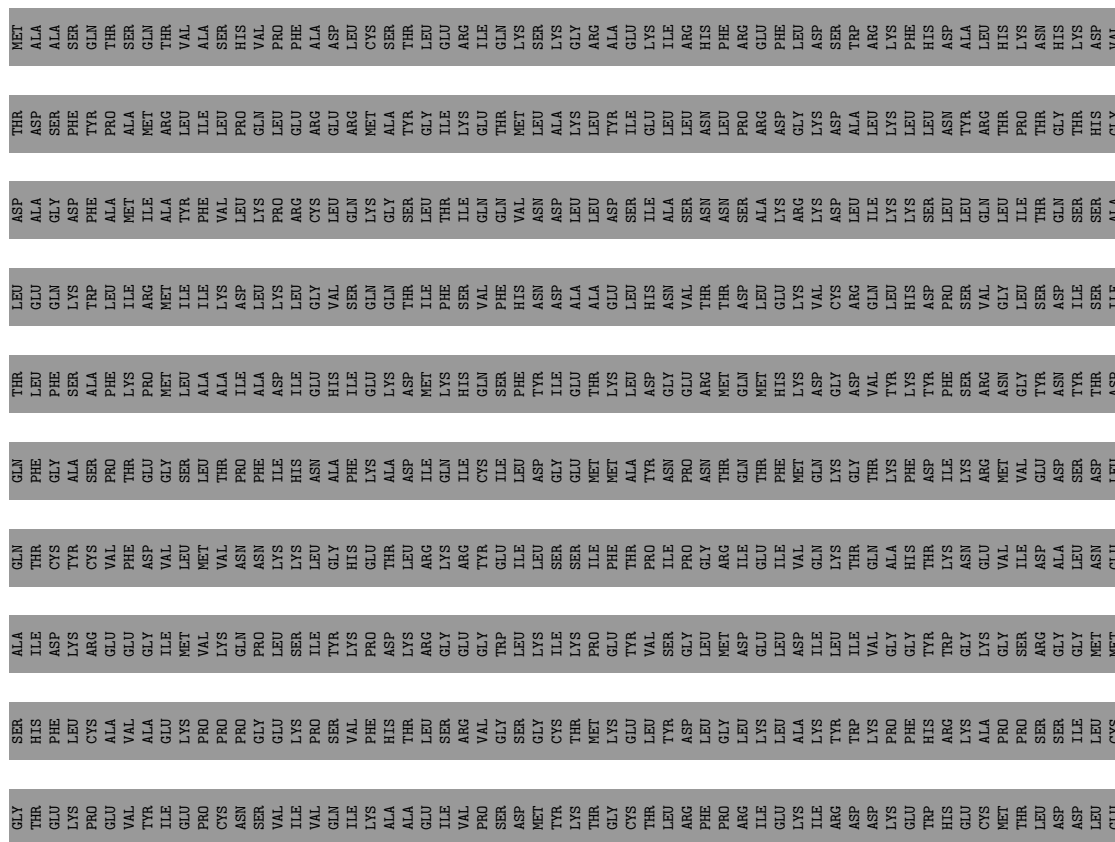
Chain H: 70% 61% 10% 25%

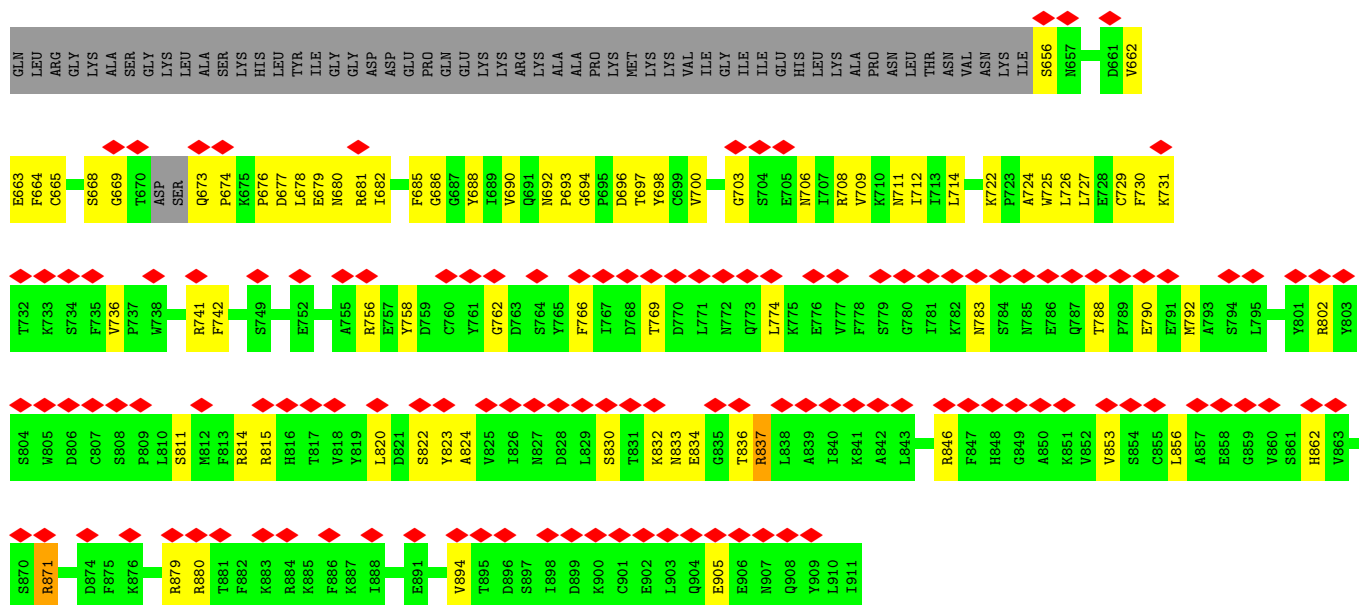


• Molecule 8: Non-homologous end-joining factor 1

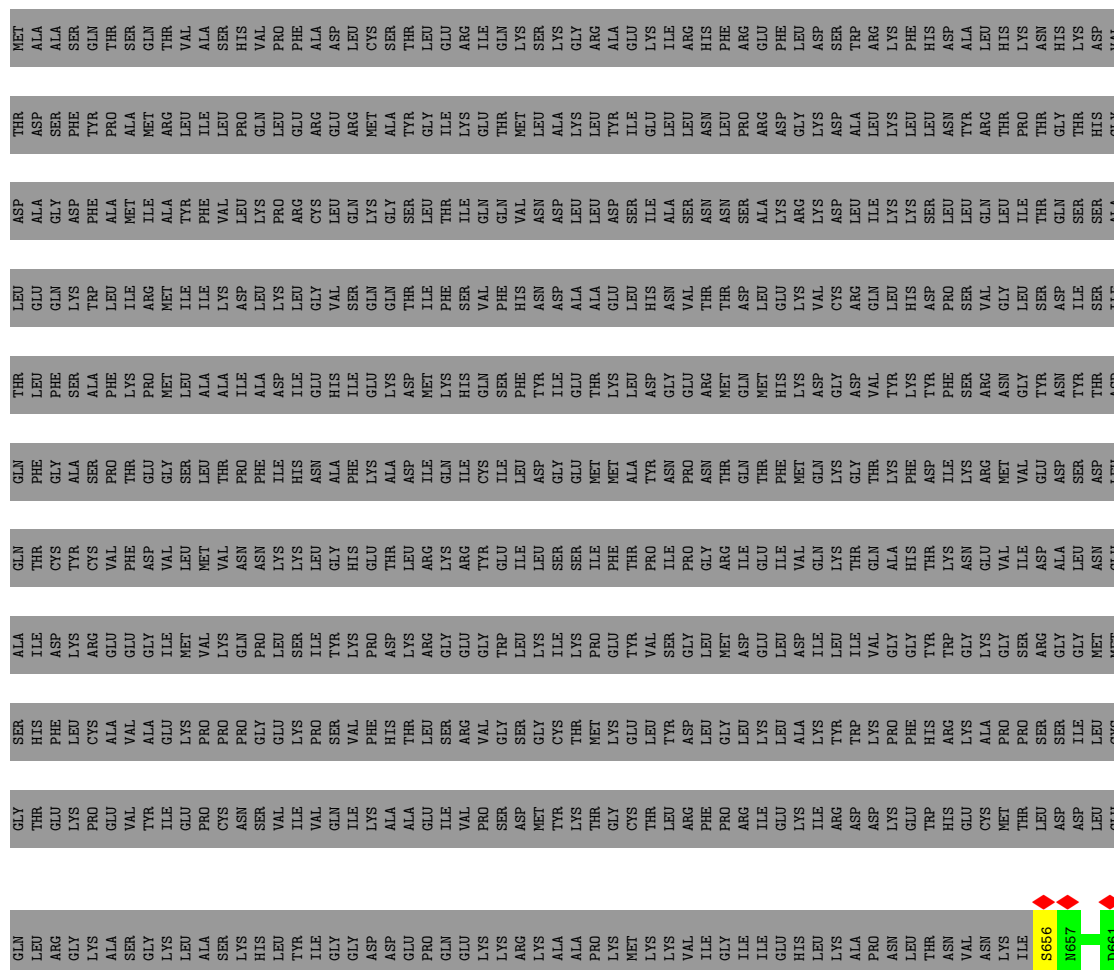


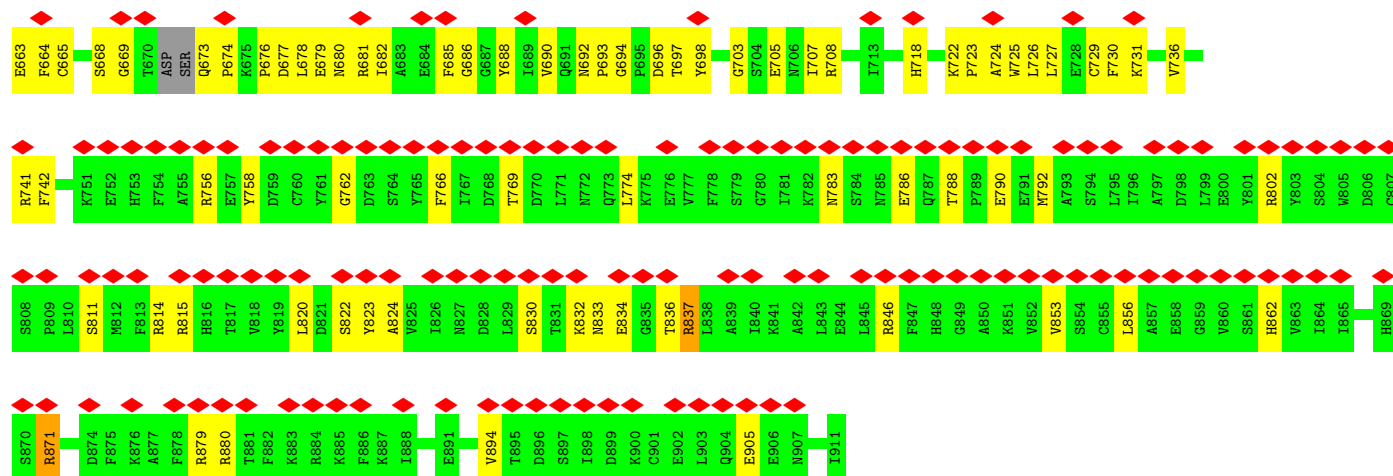
Chain X: 14% 19% 8% 72%





● Molecule 9: DNA ligase 4





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	329784	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	JEOL 3200FS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	76.5	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	30000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.874	Depositor
Minimum map value	-0.009	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.042	Depositor
Recommended contour level	0.02	Depositor
Map size (\AA)	319.0, 319.0, 319.0	wwPDB
Map dimensions	290, 290, 290	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.1, 1.1, 1.1	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	A	0.58	0/4101	0.68	1/5523 (0.0%)
1	J	0.58	0/4101	0.68	1/5523 (0.0%)
2	B	0.46	0/4340	0.56	1/5853 (0.0%)
2	K	0.46	0/4340	0.56	1/5853 (0.0%)
3	C	0.57	2/30414 (0.0%)	0.63	8/41079 (0.0%)
3	L	0.57	2/30414 (0.0%)	0.64	8/41079 (0.0%)
5	D	2.09	13/710 (1.8%)	1.37	7/1093 (0.6%)
5	M	2.10	14/710 (2.0%)	1.37	6/1093 (0.5%)
6	E	2.15	19/690 (2.8%)	1.32	5/1063 (0.5%)
6	N	2.15	18/690 (2.6%)	1.32	5/1063 (0.5%)
7	F	0.71	2/1765 (0.1%)	1.13	7/2367 (0.3%)
7	G	0.74	0/1622	1.22	11/2178 (0.5%)
7	O	0.74	0/1622	1.22	11/2178 (0.5%)
7	P	0.71	2/1765 (0.1%)	1.12	7/2367 (0.3%)
8	H	0.77	7/1814 (0.4%)	1.17	14/2454 (0.6%)
8	I	0.78	6/1771 (0.3%)	1.11	6/2395 (0.3%)
9	X	0.69	2/2112 (0.1%)	1.06	14/2851 (0.5%)
9	Y	0.70	2/2112 (0.1%)	1.08	16/2851 (0.6%)
All	All	0.69	89/95093 (0.1%)	0.76	129/128863 (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
3	C	0	2
3	L	0	2
5	D	0	4
5	M	0	4
6	E	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	N	0	1
7	F	0	4
7	G	0	3
7	O	0	3
7	P	0	4
8	H	0	2
8	I	0	4
9	X	0	1
9	Y	0	1
All	All	0	36

All (89) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	29	DA	C3'-O3'	-7.31	1.34	1.44
5	M	24	DA	C3'-O3'	-7.30	1.34	1.44
5	D	24	DA	C3'-O3'	-7.20	1.34	1.44
5	D	29	DA	C3'-O3'	-7.19	1.34	1.44
6	E	10	DA	C3'-O3'	-7.09	1.34	1.44
6	N	10	DA	C3'-O3'	-7.05	1.34	1.44
6	E	16	DA	N7-C5	-6.75	1.35	1.39
6	N	16	DA	N7-C5	-6.65	1.35	1.39
5	M	30	DC	C3'-O3'	-6.61	1.35	1.44
8	H	1	MET	CG-SD	6.57	1.98	1.81
5	D	30	DC	C3'-O3'	-6.50	1.35	1.44
6	E	11	DC	N1-C6	-6.46	1.33	1.37
6	E	10	DA	N9-C4	-6.42	1.33	1.37
6	N	10	DA	N9-C4	-6.37	1.34	1.37
6	N	3	DG	C3'-O3'	-6.36	1.35	1.44
6	E	3	DG	C3'-O3'	-6.32	1.35	1.44
6	N	11	DC	N1-C6	-6.28	1.33	1.37
8	H	140	MET	CG-SD	6.21	1.97	1.81
7	F	117	GLU	CD-OE2	-6.20	1.18	1.25
8	H	10	MET	CG-SD	6.18	1.97	1.81
6	E	9	DT	C3'-O3'	-6.15	1.35	1.44
6	N	9	DT	C3'-O3'	-6.11	1.36	1.44
8	I	1	MET	CG-SD	6.00	1.96	1.81
8	I	124	MET	CG-SD	5.99	1.96	1.81
6	N	6	DA	N7-C5	-5.93	1.35	1.39
7	P	117	GLU	CD-OE2	-5.91	1.19	1.25
6	N	16	DA	C3'-O3'	-5.91	1.36	1.44
5	M	25	DT	C3'-O3'	-5.87	1.36	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	12	DT	C3'-O3'	-5.87	1.36	1.44
8	I	140	MET	CG-SD	5.87	1.96	1.81
5	D	25	DT	C3'-O3'	-5.86	1.36	1.44
8	I	194	MET	CG-SD	5.82	1.96	1.81
6	E	15	DC	C4-N4	-5.82	1.28	1.33
5	M	11	DC	N1-C6	-5.80	1.33	1.37
6	E	16	DA	C3'-O3'	-5.80	1.36	1.44
6	E	12	DT	C3'-O3'	-5.79	1.36	1.44
8	H	212	MET	CG-SD	5.78	1.96	1.81
6	N	15	DC	C4-N4	-5.71	1.28	1.33
5	D	23	DG	C3'-O3'	-5.70	1.36	1.44
5	D	30	DC	N1-C6	-5.70	1.33	1.37
5	M	22	DA	N7-C5	-5.70	1.35	1.39
5	M	23	DG	C3'-O3'	-5.70	1.36	1.44
6	N	7	DT	C3'-O3'	-5.69	1.36	1.44
6	N	19	DA	C3'-O3'	-5.68	1.36	1.44
6	E	6	DA	N7-C5	-5.66	1.35	1.39
5	M	19	DA	C3'-O3'	-5.66	1.36	1.44
5	D	11	DC	N1-C6	-5.65	1.33	1.37
8	I	212	MET	CG-SD	5.64	1.95	1.81
6	E	19	DA	C3'-O3'	-5.61	1.36	1.44
6	E	7	DT	C3'-O3'	-5.59	1.36	1.44
6	E	8	DC	N1-C6	-5.59	1.33	1.37
8	H	124	MET	CG-SD	5.58	1.95	1.81
5	D	19	DA	C3'-O3'	-5.55	1.36	1.44
6	N	8	DC	N1-C6	-5.47	1.33	1.37
3	L	886	TRP	CB-CG	-5.45	1.40	1.50
8	I	159	MET	CG-SD	5.44	1.95	1.81
3	C	886	TRP	CB-CG	-5.40	1.40	1.50
5	M	30	DC	N1-C6	-5.39	1.33	1.37
7	P	110	SER	CB-OG	-5.37	1.35	1.42
8	H	194	MET	CG-SD	5.36	1.95	1.81
9	Y	762	GLY	N-CA	-5.36	1.38	1.46
5	D	22	DA	N7-C5	-5.34	1.36	1.39
9	X	762	GLY	N-CA	-5.33	1.38	1.46
8	H	159	MET	CG-SD	5.29	1.95	1.81
5	D	23	DG	C5-C4	-5.29	1.34	1.38
6	E	6	DA	C5-C6	-5.28	1.36	1.41
5	M	22	DA	N9-C4	-5.26	1.34	1.37
6	N	14	DA	C3'-O3'	-5.25	1.37	1.44
9	X	790	GLU	CD-OE2	-5.24	1.19	1.25
6	E	14	DA	C3'-O3'	-5.22	1.37	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Y	790	GLU	CD-OE2	-5.21	1.20	1.25
5	M	22	DA	C3'-O3'	-5.21	1.37	1.44
7	F	110	SER	CB-OG	-5.21	1.35	1.42
5	M	23	DG	C5-C4	-5.20	1.34	1.38
6	E	18	DC	N3-C4	-5.19	1.30	1.33
6	N	6	DA	C3'-O3'	-5.18	1.37	1.44
5	D	22	DA	C3'-O3'	-5.16	1.37	1.44
6	E	6	DA	C3'-O3'	-5.16	1.37	1.44
6	E	14	DA	N7-C5	-5.16	1.36	1.39
6	N	6	DA	C5-C6	-5.14	1.36	1.41
5	D	20	DG	C3'-O3'	-5.14	1.37	1.44
5	D	22	DA	N9-C4	-5.14	1.34	1.37
6	N	18	DC	N3-C4	-5.13	1.30	1.33
5	M	20	DG	C3'-O3'	-5.11	1.37	1.44
6	E	5	DA	C5-C4	-5.05	1.35	1.38
3	C	2164	TRP	CB-CG	-5.03	1.41	1.50
3	L	2164	TRP	CB-CG	-5.03	1.41	1.50
6	N	11	DC	C3'-O3'	-5.02	1.37	1.44
5	M	9	DC	C3'-O3'	-5.01	1.37	1.44

All (129) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	150	ARG	NE-CZ-NH1	9.79	125.19	120.30
7	F	150	ARG	NE-CZ-NH1	9.76	125.18	120.30
8	H	109	ARG	NE-CZ-NH1	9.58	125.09	120.30
8	I	176	ARG	NE-CZ-NH1	9.54	125.07	120.30
1	A	352	PRO	CA-N-CD	-9.24	98.57	111.50
1	J	352	PRO	CA-N-CD	-9.23	98.57	111.50
8	I	57	ARG	NE-CZ-NH1	8.69	124.64	120.30
6	N	15	DC	N3-C2-O2	-8.51	115.94	121.90
6	E	15	DC	N3-C2-O2	-8.48	115.96	121.90
7	O	7	ARG	NE-CZ-NH1	8.30	124.45	120.30
9	X	879	ARG	NE-CZ-NH1	8.12	124.36	120.30
7	G	7	ARG	NE-CZ-NH1	8.08	124.34	120.30
8	H	57	ARG	NE-CZ-NH1	8.05	124.33	120.30
8	H	151	ARG	NE-CZ-NH1	7.99	124.30	120.30
7	F	3	ARG	NE-CZ-NH1	7.99	124.29	120.30
9	Y	879	ARG	NE-CZ-NH1	7.98	124.29	120.30
7	P	3	ARG	NE-CZ-NH1	7.98	124.29	120.30
3	L	3962	ARG	NE-CZ-NH1	7.91	124.26	120.30
8	H	178	ARG	NE-CZ-NH1	7.81	124.21	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	161	ARG	NE-CZ-NH1	7.81	124.20	120.30
3	C	3962	ARG	NE-CZ-NH1	7.80	124.20	120.30
7	F	161	ARG	NE-CZ-NH1	7.63	124.11	120.30
7	G	153	ARG	NE-CZ-NH1	7.55	124.07	120.30
7	O	153	ARG	NE-CZ-NH1	7.39	124.00	120.30
8	H	18	LEU	CD1-CG-CD2	7.39	132.66	110.50
8	I	151	ARG	NE-CZ-NH1	7.31	123.95	120.30
9	X	758	TYR	CB-CG-CD2	-7.29	116.62	121.00
9	Y	846	ARG	NE-CZ-NH1	7.26	123.93	120.30
9	X	846	ARG	NE-CZ-NH1	7.16	123.88	120.30
9	Y	758	TYR	CB-CG-CD2	-7.16	116.70	121.00
7	F	179	ARG	NE-CZ-NH1	7.15	123.88	120.30
6	N	1	DG	OP1-P-OP2	-7.10	108.96	119.60
6	E	1	DG	OP1-P-OP2	-7.08	108.97	119.60
7	P	179	ARG	NE-CZ-NH1	7.05	123.82	120.30
5	D	18	DC	N3-C2-O2	-6.99	117.01	121.90
5	M	18	DC	N3-C2-O2	-6.90	117.07	121.90
9	X	758	TYR	CB-CG-CD1	6.89	125.13	121.00
9	Y	758	TYR	CB-CG-CD1	6.84	125.10	121.00
8	H	64	ARG	NE-CZ-NH1	6.80	123.70	120.30
3	C	1046	PRO	CA-N-CD	-6.78	102.01	111.50
8	H	176	ARG	NE-CZ-NH1	6.72	123.66	120.30
3	L	1046	PRO	CA-N-CD	-6.72	102.09	111.50
5	M	1	DT	OP1-P-OP2	-6.71	109.54	119.60
5	D	1	DT	OP1-P-OP2	-6.68	109.58	119.60
3	C	4090	ARG	NE-CZ-NH1	6.64	123.62	120.30
3	L	4090	ARG	NE-CZ-NH1	6.58	123.59	120.30
9	Y	802	ARG	NE-CZ-NH1	6.56	123.58	120.30
6	N	17	DT	C5-C6-N1	-6.51	119.79	123.70
6	E	17	DT	C5-C6-N1	-6.50	119.80	123.70
9	X	837	ARG	NE-CZ-NH1	6.49	123.54	120.30
9	X	802	ARG	NE-CZ-NH1	6.45	123.53	120.30
7	P	71	ARG	NE-CZ-NH1	6.39	123.49	120.30
9	Y	837	ARG	NE-CZ-NH1	6.38	123.49	120.30
7	F	71	ARG	NE-CZ-NH1	6.35	123.47	120.30
9	X	756	ARG	NE-CZ-NH1	6.33	123.46	120.30
8	H	137	ARG	NE-CZ-NH1	6.25	123.43	120.30
9	Y	814	ARG	NE-CZ-NH1	6.24	123.42	120.30
7	G	148	ASN	CB-CA-C	6.23	122.87	110.40
7	O	148	ASN	CB-CA-C	6.19	122.79	110.40
9	X	814	ARG	NE-CZ-NH1	6.18	123.39	120.30
9	Y	756	ARG	NE-CZ-NH1	6.14	123.37	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Y	871	ARG	NE-CZ-NH1	6.12	123.36	120.30
5	M	17	DT	O4'-C4'-C3'	6.07	109.64	106.00
8	H	109	ARG	NE-CZ-NH2	-6.01	117.30	120.30
9	X	871	ARG	NE-CZ-NH1	5.97	123.29	120.30
7	G	97	PHE	CB-CG-CD2	-5.93	116.64	120.80
5	D	17	DT	O4'-C4'-C3'	5.93	109.56	106.00
7	P	150	ARG	NE-CZ-NH2	-5.91	117.34	120.30
7	G	150	ARG	NE-CZ-NH1	5.87	123.24	120.30
3	C	3468	LEU	CA-CB-CG	-5.84	101.86	115.30
3	L	3468	LEU	CA-CB-CG	-5.82	101.91	115.30
7	O	129	TYR	CB-CG-CD1	-5.78	117.53	121.00
7	O	192	ARG	NE-CZ-NH1	5.75	123.17	120.30
9	Y	905	GLU	CB-CA-C	5.73	121.85	110.40
7	F	150	ARG	NE-CZ-NH2	-5.72	117.44	120.30
7	O	97	PHE	CB-CG-CD2	-5.70	116.81	120.80
8	H	17	GLN	CA-C-N	-5.69	104.69	117.20
7	G	161	ARG	NE-CZ-NH1	5.68	123.14	120.30
7	O	71	ARG	NE-CZ-NH1	5.68	123.14	120.30
5	D	18	DC	N1-C2-O2	5.66	122.30	118.90
6	E	15	DC	N1-C2-O2	5.66	122.30	118.90
7	O	161	ARG	NE-CZ-NH1	5.64	123.12	120.30
7	O	150	ARG	NE-CZ-NH1	5.63	123.12	120.30
3	C	3156	PRO	CA-N-CD	-5.63	103.62	111.50
9	X	758	TYR	CA-CB-CG	5.63	124.09	113.40
9	Y	758	TYR	CA-CB-CG	5.62	124.08	113.40
9	X	905	GLU	CB-CA-C	5.62	121.64	110.40
7	G	192	ARG	NE-CZ-NH1	5.62	123.11	120.30
3	L	3156	PRO	CA-N-CD	-5.60	103.66	111.50
7	G	129	TYR	CB-CG-CD1	-5.59	117.64	121.00
6	N	15	DC	N1-C2-O2	5.59	122.25	118.90
9	X	823	TYR	CB-CG-CD1	-5.58	117.65	121.00
5	M	18	DC	N1-C2-O2	5.53	122.22	118.90
7	G	107	ARG	NE-CZ-NH1	5.50	123.05	120.30
9	Y	880	ARG	NE-CZ-NH1	5.48	123.04	120.30
7	G	71	ARG	NE-CZ-NH1	5.47	123.04	120.30
9	Y	815	ARG	NE-CZ-NH1	5.47	123.04	120.30
9	Y	823	TYR	CB-CG-CD1	-5.47	117.72	121.00
9	Y	708	ARG	NE-CZ-NH1	5.46	123.03	120.30
8	H	57	ARG	NH1-CZ-NH2	-5.43	113.42	119.40
2	B	408	ALA	C-N-CA	-5.42	108.16	121.70
3	L	466	LEU	CA-CB-CG	5.36	127.64	115.30
2	K	408	ALA	C-N-CA	-5.36	108.30	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	466	LEU	CA-CB-CG	5.36	127.62	115.30
9	X	880	ARG	NE-CZ-NH1	5.36	122.98	120.30
5	D	13	DG	C5-C6-N1	5.35	114.17	111.50
8	H	18	LEU	CB-CG-CD1	-5.34	101.92	111.00
5	M	13	DG	C5-C6-N1	5.31	114.16	111.50
8	I	107	ARG	NE-CZ-NH1	5.27	122.94	120.30
9	X	815	ARG	NE-CZ-NH1	5.26	122.93	120.30
7	O	107	ARG	NE-CZ-NH1	5.23	122.91	120.30
5	D	13	DG	O4'-C4'-C3'	5.22	109.13	106.00
7	F	153	ARG	NE-CZ-NH1	5.21	122.90	120.30
7	O	32	PHE	CB-CG-CD2	-5.20	117.16	120.80
6	N	8	DC	C1'-O4'-C4'	-5.19	104.91	110.10
7	G	32	PHE	CB-CG-CD2	-5.17	117.18	120.80
6	E	8	DC	C1'-O4'-C4'	-5.14	104.96	110.10
7	P	107	ARG	NE-CZ-NH1	5.14	122.87	120.30
9	Y	707	ILE	CA-CB-CG1	5.11	120.71	111.00
8	I	121	PHE	CB-CG-CD1	-5.09	117.23	120.80
3	C	3506	LEU	CA-CB-CG	5.08	126.99	115.30
3	L	3506	LEU	CA-CB-CG	5.07	126.97	115.30
8	H	107	ARG	NE-CZ-NH1	5.06	122.83	120.30
3	L	3049	LEU	CA-CB-CG	5.06	126.94	115.30
5	M	13	DG	O4'-C4'-C3'	5.05	109.03	106.00
3	C	3049	LEU	CA-CB-CG	5.04	126.88	115.30
8	H	81	ARG	NE-CZ-NH2	5.03	122.82	120.30
5	D	23	DG	O4'-C4'-C3'	-5.03	102.49	104.50
8	I	64	ARG	NE-CZ-NH1	5.00	122.80	120.30

There are no chirality outliers.

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	C	3962	ARG	Sidechain
3	C	4090	ARG	Sidechain
5	D	13	DG	Sidechain
5	D	16	DG	Sidechain
5	D	17	DT	Sidechain
5	D	18	DC	Sidechain
6	E	17	DT	Sidechain
7	F	143	HIS	Sidechain
7	F	66	TYR	Sidechain
7	F	7	ARG	Sidechain
7	F	94	TYR	Sidechain

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Mol	Chain	Res	Type	Group
7	G	111	PHE	Sidechain
7	G	192	ARG	Sidechain
7	G	3	ARG	Sidechain
8	H	17	GLN	Mainchain
8	H	81	ARG	Sidechain
8	I	118	TYR	Sidechain
8	I	167	TYR	Sidechain
8	I	72	PHE	Sidechain
8	I	75	HIS	Sidechain
3	L	3962	ARG	Sidechain
3	L	4090	ARG	Sidechain
5	M	13	DG	Sidechain
5	M	16	DG	Sidechain
5	M	17	DT	Sidechain
5	M	18	DC	Sidechain
6	N	17	DT	Sidechain
7	O	111	PHE	Sidechain
7	O	192	ARG	Sidechain
7	O	3	ARG	Sidechain
7	P	143	HIS	Sidechain
7	P	66	TYR	Sidechain
7	P	7	ARG	Sidechain
7	P	94	TYR	Sidechain
9	X	766	PHE	Sidechain
9	Y	766	PHE	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4021	0	4100	278	0
1	J	4021	0	4100	278	0
2	B	4259	0	4301	254	0
2	K	4259	0	4301	259	0
3	C	29811	0	30286	1585	0
3	L	29811	0	30286	1583	0
4	Q	101	0	23	2	0
4	R	101	0	23	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	D	634	0	352	65	0
5	M	634	0	352	66	0
6	E	616	0	339	64	0
6	N	616	0	339	60	0
7	F	1736	0	1739	44	0
7	G	1595	0	1592	38	0
7	O	1595	0	1592	37	0
7	P	1736	0	1739	33	0
8	H	1779	0	1797	30	0
8	I	1737	0	1744	16	0
9	X	2064	0	2012	41	0
9	Y	2064	0	2012	41	0
10	C	27	0	12	5	0
10	L	27	0	12	5	0
All	All	93244	0	93053	4499	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 24.

All (4499) 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)
7:O:130:CYS:CA	7:P:134:ILE:HD11	1.44	1.46
7:F:134:ILE:HD11	7:G:130:CYS:CA	1.44	1.45
7:F:134:ILE:CD1	7:G:130:CYS:HA	1.60	1.31
7:O:130:CYS:HA	7:P:134:ILE:CD1	1.60	1.31
7:F:134:ILE:HG12	7:G:134:ILE:HG13	1.22	1.16
7:O:134:ILE:HG13	7:P:134:ILE:HG12	1.21	1.14
7:O:130:CYS:CB	7:P:134:ILE:HD11	1.79	1.12
7:F:134:ILE:HD11	7:G:130:CYS:CB	1.79	1.11
3:C:949:PRO:HB3	3:L:2579:HIS:CG	1.86	1.09
3:C:2579:HIS:CG	3:L:949:PRO:HB3	1.89	1.08
7:G:134:ILE:HG23	7:G:138:GLN:HE22	1.22	1.05
8:H:299:PHE:CE1	2:K:234:LEU:HD21	1.93	1.03
7:O:134:ILE:CG2	7:O:138:GLN:HE22	1.73	1.01
7:O:134:ILE:HG23	7:O:138:GLN:HE22	1.21	1.01
7:G:134:ILE:CG2	7:G:138:GLN:HE22	1.74	1.00
7:O:134:ILE:HG13	7:P:134:ILE:CG1	1.92	0.99
7:F:134:ILE:CG1	7:G:134:ILE:HG13	1.92	0.99
7:F:134:ILE:HD11	7:G:130:CYS:HA	0.98	0.96
7:O:130:CYS:HA	7:P:134:ILE:HD11	0.98	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3575:LEU:O	3:C:3579:SER:HB3	1.67	0.95
3:C:949:PRO:HB3	3:L:2579:HIS:CD2	2.02	0.94
3:L:3575:LEU:O	3:L:3579:SER:HB3	1.67	0.93
2:K:44:ARG:NH1	2:K:234:LEU:O	2.02	0.93
2:B:44:ARG:NH1	2:B:234:LEU:O	2.02	0.93
3:C:2579:HIS:CD2	3:L:949:PRO:HB3	2.04	0.92
3:C:1970:LYS:HD2	3:C:1971:PRO:HD2	1.51	0.92
3:L:1102:GLU:HG3	3:L:1154:PRO:HA	1.53	0.90
3:L:1979:GLU:OE2	3:L:2091:HIS:NE2	2.04	0.90
3:C:1979:GLU:OE2	3:C:2091:HIS:NE2	2.04	0.89
3:L:1970:LYS:HD2	3:L:1971:PRO:HD2	1.51	0.89
3:C:1407:LYS:HB2	3:C:1463:LEU:HD21	1.53	0.89
7:F:134:ILE:CD1	7:G:130:CYS:CA	2.33	0.88
8:I:15:TRP:HB2	8:I:211:VAL:HG21	1.55	0.88
3:C:1102:GLU:HG3	3:C:1154:PRO:HA	1.53	0.88
3:L:1407:LYS:HB2	3:L:1463:LEU:HD21	1.53	0.88
3:C:3929:MET:HB2	3:C:3940:ILE:HD11	1.56	0.87
3:L:3179:TRP:CD1	3:L:3242:MET:HG3	2.10	0.87
3:C:3179:TRP:CD1	3:C:3242:MET:HG3	2.10	0.87
3:L:1264:LEU:HD22	3:L:1341:ILE:HG22	1.57	0.86
1:A:366:LEU:HB2	1:A:434:LEU:HD12	1.58	0.86
3:C:1974:ASN:OD1	3:C:1975:LEU:N	2.08	0.86
3:C:1264:LEU:HD22	3:C:1341:ILE:HG22	1.57	0.86
3:C:90:CYS:SG	3:C:133:LYS:NZ	2.49	0.85
1:J:366:LEU:HB2	1:J:434:LEU:HD12	1.58	0.85
3:L:3835:PRO:HG3	3:L:3841:ASP:H	1.40	0.85
3:L:3929:MET:HB2	3:L:3940:ILE:HD11	1.56	0.85
3:L:90:CYS:SG	3:L:133:LYS:NZ	2.50	0.85
3:L:4088:ASN:ND2	3:L:4113:ASP:OD1	2.09	0.85
7:O:130:CYS:CB	7:P:134:ILE:CD1	2.55	0.85
3:L:1622:ILE:HD11	3:L:1652:ILE:HD13	1.59	0.85
3:L:1974:ASN:OD1	3:L:1975:LEU:N	2.08	0.85
3:C:3835:PRO:HG3	3:C:3841:ASP:H	1.40	0.84
3:C:405:ASP:O	3:C:409:GLN:NE2	2.11	0.84
3:L:2855:VAL:O	3:L:2859:GLN:NE2	2.10	0.84
3:L:128:LEU:HD11	3:L:156:PHE:HE2	1.42	0.84
3:L:3050:LYS:HA	3:L:3053:LEU:HG	1.59	0.84
3:C:2855:VAL:O	3:C:2859:GLN:NE2	2.10	0.84
3:C:4088:ASN:ND2	3:C:4113:ASP:OD1	2.09	0.84
3:C:3050:LYS:HA	3:C:3053:LEU:HG	1.59	0.83
3:L:3617:LEU:HB3	3:L:3633:ILE:HD13	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1519:PHE:CD2	3:C:1570:GLU:HG3	2.14	0.83
1:J:340:PHE:HE1	2:K:485:PRO:HB2	1.44	0.82
3:L:789:TYR:HA	3:L:792:ILE:HG22	1.62	0.82
3:C:1857:LYS:HE3	3:C:1866:GLN:HE21	1.43	0.82
3:L:405:ASP:O	3:L:409:GLN:NE2	2.11	0.82
3:L:1857:LYS:HE3	3:L:1866:GLN:HE21	1.44	0.82
7:F:134:ILE:CD1	7:G:130:CYS:CB	2.55	0.82
3:L:3154:GLN:OE1	3:L:3158:LYS:NZ	2.13	0.82
3:C:1820:VAL:HA	3:C:1824:LEU:HB3	1.61	0.82
3:C:3575:LEU:O	3:C:3579:SER:CB	2.28	0.82
3:L:3575:LEU:O	3:L:3579:SER:CB	2.28	0.82
3:C:1622:ILE:HD11	3:C:1652:ILE:HD13	1.59	0.82
3:C:3617:LEU:HB3	3:C:3633:ILE:HD13	1.60	0.82
3:C:128:LEU:HD11	3:C:156:PHE:HE2	1.42	0.81
8:I:211:VAL:HG23	8:I:212:MET:SD	2.20	0.81
3:L:1093:GLU:O	3:L:1096:VAL:N	2.13	0.81
3:C:3154:GLN:OE1	3:C:3158:LYS:NZ	2.13	0.81
3:C:789:TYR:HA	3:C:792:ILE:HG22	1.62	0.81
3:L:1362:ASP:O	3:L:1365:ASN:ND2	2.13	0.81
3:C:1970:LYS:HG3	3:C:1972:GLU:H	1.46	0.81
3:L:1241:LEU:HB2	3:L:1292:LYS:HZ1	1.44	0.81
3:L:1519:PHE:CD2	3:L:1570:GLU:HG3	2.14	0.81
3:L:1970:LYS:HG3	3:L:1972:GLU:H	1.46	0.80
2:B:234:LEU:HD21	8:I:299:PHE:CE1	2.16	0.80
3:L:1820:VAL:HA	3:L:1824:LEU:HB3	1.61	0.80
3:L:2123:PRO:HB3	3:L:2164:TRP:HZ2	1.46	0.80
9:X:706:ASN:OD1	9:X:709:VAL:N	2.14	0.80
3:C:1362:ASP:O	3:C:1365:ASN:ND2	2.13	0.80
3:C:2311:ARG:NH2	6:E:7:DT:OP2	2.14	0.80
3:C:2123:PRO:HB3	3:C:2164:TRP:HZ2	1.46	0.80
3:L:2280:VAL:HA	3:L:2283:ASN:HD21	1.46	0.80
3:C:1093:GLU:O	3:C:1096:VAL:N	2.13	0.80
7:F:134:ILE:HD11	7:G:130:CYS:HB3	1.62	0.80
3:C:1838:GLU:OE1	3:C:1838:GLU:N	2.15	0.79
3:L:485:GLN:HA	3:L:488:ILE:HD12	1.63	0.79
3:C:485:GLN:HA	3:C:488:ILE:HD12	1.63	0.79
3:L:1166:LEU:HD22	3:L:1198:LEU:HD12	1.64	0.79
7:F:134:ILE:HD13	7:G:130:CYS:HA	1.64	0.79
3:L:1990:PHE:HB3	3:L:1991:PRO:HD2	1.64	0.79
3:L:3469:LEU:HA	3:L:3472:ILE:HD12	1.64	0.79
3:C:2280:VAL:HA	3:C:2283:ASN:HD21	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:PHE:HE1	2:B:485:PRO:HB2	1.44	0.79
3:C:2268:LYS:NZ	3:C:2314:GLU:OE2	2.15	0.79
6:N:5:DA:N7	6:N:6:DA:N6	2.31	0.79
2:B:70:GLY:O	2:B:75:GLN:NE2	2.16	0.79
6:E:5:DA:N7	6:E:6:DA:N6	2.31	0.79
2:K:70:GLY:O	2:K:75:GLN:NE2	2.16	0.79
3:C:3806:LEU:HD23	10:C:4201:ADP:HN62	1.48	0.79
7:O:130:CYS:HB3	7:P:134:ILE:HD11	1.62	0.79
7:O:130:CYS:HA	7:P:134:ILE:HD13	1.64	0.78
3:C:1166:LEU:HD22	3:C:1198:LEU:HD12	1.64	0.78
3:C:3469:LEU:HA	3:C:3472:ILE:HD12	1.64	0.78
3:C:1241:LEU:HB2	3:C:1292:LYS:HZ1	1.47	0.78
3:L:3806:LEU:HD23	10:L:4201:ADP:HN62	1.48	0.78
3:L:3912:CYS:HB3	3:L:3961:PHE:CD1	2.19	0.78
3:C:1990:PHE:HB3	3:C:1991:PRO:HD2	1.64	0.78
1:J:455:THR:OG1	1:J:458:GLN:OE1	2.02	0.78
3:L:2268:LYS:NZ	3:L:2314:GLU:OE2	2.15	0.78
1:A:363:ARG:HB2	1:A:364:PRO:HD2	1.65	0.78
3:L:3855:TYR:HD1	3:L:3858:MET:HE3	1.49	0.78
5:M:22:DA:N1	6:N:8:DC:N4	2.32	0.78
3:L:2271:SER:HA	3:L:2274:ILE:HD12	1.66	0.77
1:A:174:ASN:HB2	1:A:215:LEU:HD21	1.66	0.77
1:J:174:ASN:HB2	1:J:215:LEU:HD21	1.66	0.77
7:O:134:ILE:CG1	7:P:134:ILE:CG1	2.63	0.77
3:C:2271:SER:HA	3:C:2274:ILE:HD12	1.66	0.77
1:A:455:THR:OG1	1:A:458:GLN:OE1	2.02	0.77
2:B:44:ARG:HG3	2:B:238:LYS:HB2	1.66	0.77
2:K:407:VAL:H	2:K:424:LEU:HD23	1.49	0.77
3:L:95:LYS:HG3	3:L:96:MET:SD	2.24	0.77
3:L:722:LYS:HG3	3:L:723:ASP:H	1.49	0.77
7:O:134:ILE:HD11	7:P:134:ILE:HG13	1.67	0.77
2:B:407:VAL:H	2:B:424:LEU:HD23	1.49	0.77
7:F:134:ILE:HG12	7:G:134:ILE:CG1	2.11	0.77
3:L:1889:VAL:O	3:L:1909:ASN:ND2	2.18	0.77
3:C:95:LYS:HG3	3:C:96:MET:SD	2.24	0.77
1:J:363:ARG:HB2	1:J:364:PRO:HD2	1.65	0.77
2:B:411:HIS:O	2:B:418:CYS:N	2.18	0.76
3:C:3912:CYS:HB3	3:C:3961:PHE:CD1	2.19	0.76
1:A:85:VAL:HG13	1:A:105:LEU:HB3	1.66	0.76
3:L:2311:ARG:NH2	6:N:7:DT:OP2	2.14	0.76
3:L:3164:TRP:CE3	3:L:3186:ARG:HD3	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1331:ASN:HA	3:C:1334:LYS:HZ3	1.50	0.76
3:C:722:LYS:HG3	3:C:723:ASP:H	1.50	0.76
3:C:1889:VAL:O	3:C:1909:ASN:ND2	2.18	0.76
3:L:65:LEU:HD23	3:L:85:ILE:HG13	1.67	0.76
1:A:261:LEU:HD23	1:A:269:ILE:HD11	1.68	0.75
7:F:134:ILE:CG1	7:G:134:ILE:CG1	2.63	0.75
2:K:44:ARG:HG3	2:K:238:LYS:HB2	1.66	0.75
3:L:2894:GLU:HG3	3:L:3973:PRO:HG3	1.68	0.75
3:C:1985:LYS:HG2	3:C:1987:ARG:HH12	1.51	0.75
7:F:134:ILE:HG13	7:G:134:ILE:HD11	1.68	0.75
1:J:85:VAL:HG13	1:J:105:LEU:HB3	1.66	0.75
2:K:547:GLN:HG3	2:K:548:VAL:H	1.50	0.75
3:L:3724:GLU:HG3	3:L:3725:ARG:HG3	1.67	0.75
3:C:1538:LEU:HD11	3:C:1555:HIS:HD2	1.52	0.75
3:C:3164:TRP:CE3	3:C:3186:ARG:HD3	2.21	0.75
3:L:1838:GLU:OE1	3:L:1838:GLU:N	2.15	0.75
2:K:353:ARG:HA	2:K:356:PHE:HE1	1.52	0.75
3:L:3031:TRP:HB3	3:L:3074:GLN:HE22	1.50	0.75
3:C:3724:GLU:HG3	3:C:3725:ARG:HG3	1.67	0.75
3:C:3855:TYR:HD1	3:C:3858:MET:HE3	1.51	0.75
5:D:22:DA:N1	6:E:8:DC:N4	2.32	0.74
3:C:3031:TRP:HB3	3:C:3074:GLN:HE22	1.50	0.74
3:L:2810:SER:HA	3:L:2861:ILE:HD11	1.69	0.74
2:B:547:GLN:HG3	2:B:548:VAL:H	1.50	0.74
3:C:65:LEU:HD23	3:C:85:ILE:HG13	1.67	0.74
3:L:2977:ASN:CG	7:P:272:ARG:HH22	1.90	0.74
3:C:2894:GLU:HG3	3:C:3973:PRO:HG3	1.68	0.74
1:J:35:ARG:HD3	1:J:80:ARG:HG2	1.69	0.74
1:J:261:LEU:HD23	1:J:269:ILE:HD11	1.68	0.74
3:L:1237:ALA:O	3:L:1292:LYS:NZ	2.19	0.74
3:C:3923:ARG:HB2	3:C:4124:TRP:HE1	1.53	0.74
2:B:353:ARG:HA	2:B:356:PHE:HE1	1.52	0.74
1:A:142:SER:HA	1:A:182:LYS:HE3	1.70	0.73
2:B:76:ASN:ND2	2:B:103:GLN:OE1	2.22	0.73
3:C:2810:SER:HA	3:C:2861:ILE:HD11	1.69	0.73
3:C:3121:LEU:HD21	3:C:3895:GLU:HB2	1.69	0.73
1:J:95:ASN:HD21	1:J:99:PHE:H	1.35	0.73
2:K:56:LEU:HD11	2:K:90:LEU:HD21	1.70	0.73
3:L:1985:LYS:HG2	3:L:1987:ARG:HH12	1.51	0.73
3:C:2928:LYS:HD2	3:C:2996:LEU:HD13	1.71	0.73
3:C:2977:ASN:CG	7:F:272:ARG:HH22	1.92	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:176:HIS:CD2	1:J:182:LYS:HD3	2.24	0.73
3:L:1331:ASN:HA	3:L:1334:LYS:HZ3	1.52	0.73
3:L:2928:LYS:HD2	3:L:2996:LEU:HD13	1.71	0.73
3:C:425:ASP:OD1	3:C:426:THR:N	2.21	0.73
3:C:1980:ASN:HD21	3:C:1982:ILE:HG22	1.54	0.73
3:C:3958:LEU:HD11	3:C:4064:LEU:HD11	1.70	0.73
2:K:411:HIS:O	2:K:418:CYS:N	2.18	0.73
3:L:1538:LEU:HD11	3:L:1555:HIS:HD2	1.52	0.73
1:A:95:ASN:HD21	1:A:99:PHE:H	1.35	0.73
3:C:1146:ASN:OD1	3:C:1165:LEU:N	2.17	0.73
3:C:3467:ARG:O	3:C:3467:ARG:NH2	2.22	0.73
3:L:425:ASP:OD1	3:L:426:THR:N	2.21	0.73
3:C:757:LYS:NZ	3:C:795:CYS:SG	2.62	0.73
3:L:1980:ASN:HD21	3:L:1982:ILE:HG22	1.54	0.73
3:L:2127:LYS:HE2	3:L:2164:TRP:CD2	2.24	0.73
3:L:3121:LEU:HD21	3:L:3895:GLU:HB2	1.69	0.73
3:L:3467:ARG:O	3:L:3467:ARG:NH2	2.21	0.73
3:C:2127:LYS:HE2	3:C:2164:TRP:CD2	2.24	0.73
3:L:3958:LEU:HD11	3:L:4064:LEU:HD11	1.70	0.73
1:A:35:ARG:HD3	1:A:80:ARG:HG2	1.69	0.72
3:C:439:VAL:HG13	3:C:461:ILE:HD11	1.70	0.72
2:K:76:ASN:ND2	2:K:103:GLN:OE1	2.21	0.72
3:L:538:ASP:OD1	3:L:561:ASN:ND2	2.22	0.72
3:L:2127:LYS:HE2	3:L:2164:TRP:CE2	2.24	0.72
3:L:3363:SER:O	3:L:3380:ARG:NH1	2.22	0.72
3:C:714:VAL:HG11	3:C:732:PHE:HE2	1.55	0.72
1:J:142:SER:HA	1:J:182:LYS:HE3	1.70	0.72
2:B:56:LEU:HD11	2:B:90:LEU:HD21	1.70	0.72
2:B:262:ALA:N	2:B:365:PHE:O	2.22	0.72
3:L:757:LYS:NZ	3:L:795:CYS:SG	2.62	0.72
3:C:2123:PRO:HB3	3:C:2164:TRP:CZ2	2.24	0.72
3:C:3778:ASP:OD1	3:C:3780:ALA:N	2.22	0.72
3:C:3977:THR:HA	3:C:3981:TYR:HB3	1.72	0.72
3:L:439:VAL:HG13	3:L:461:ILE:HD11	1.70	0.72
3:L:3923:ARG:HB2	3:L:4124:TRP:HE1	1.53	0.72
3:L:3977:THR:HA	3:L:3981:TYR:HB3	1.72	0.72
3:C:1277:GLY:O	3:C:1281:VAL:N	2.21	0.72
3:C:2127:LYS:HE2	3:C:2164:TRP:CE2	2.24	0.72
2:B:61:THR:O	2:B:76:ASN:ND2	2.22	0.72
3:C:3363:SER:O	3:C:3380:ARG:NH1	2.22	0.72
3:L:66:LEU:HD11	3:L:89:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1129:ASP:O	3:L:1133:HIS:ND1	2.22	0.72
3:C:538:ASP:OD1	3:C:561:ASN:ND2	2.22	0.72
8:H:296:ARG:HD2	2:K:131:HIS:NE2	2.04	0.72
8:H:299:PHE:CE1	2:K:234:LEU:CD2	2.72	0.72
8:H:299:PHE:HE1	2:K:234:LEU:HD21	1.50	0.72
1:J:330:GLU:OE2	2:K:502:ARG:NH2	2.23	0.72
3:L:1255:CYS:SG	3:L:1256:TRP:N	2.63	0.72
3:L:3778:ASP:OD1	3:L:3780:ALA:N	2.22	0.72
3:C:66:LEU:HD11	3:C:89:LEU:HD11	1.71	0.72
3:C:1255:CYS:SG	3:C:1256:TRP:N	2.63	0.72
7:F:134:ILE:CD1	7:G:130:CYS:HB3	2.19	0.72
3:L:1479:VAL:HG12	3:L:1518:ALA:HA	1.72	0.72
7:O:134:ILE:CG1	7:P:134:ILE:HG12	2.11	0.72
3:C:1082:PHE:CE2	3:C:1134:LEU:HG	2.25	0.72
3:L:714:VAL:HG11	3:L:732:PHE:HE2	1.55	0.72
1:A:330:GLU:OE2	2:B:502:ARG:NH2	2.23	0.71
3:C:947:GLN:HB3	3:L:2578:GLU:OE2	1.90	0.71
3:C:1237:ALA:O	3:C:1292:LYS:NZ	2.19	0.71
9:Y:824:ALA:HB2	9:Y:833:ASN:HD21	1.53	0.71
3:C:2848:PHE:HB2	3:C:3077:ILE:HD11	1.72	0.71
1:A:176:HIS:CD2	1:A:182:LYS:HD3	2.24	0.71
3:C:1174:ALA:O	3:C:1228:GLY:N	2.23	0.71
3:L:1277:GLY:O	3:L:1281:VAL:N	2.21	0.71
3:C:3917:ILE:HG23	3:C:4051:LEU:HD21	1.72	0.71
3:L:2123:PRO:HB3	3:L:2164:TRP:CZ2	2.24	0.71
3:L:3921:GLY:O	3:L:3923:ARG:NE	2.22	0.71
3:C:1935:GLU:OE1	3:C:1935:GLU:N	2.22	0.71
3:C:2508:GLN:HE22	3:C:2549:LYS:HD2	1.56	0.71
3:C:3386:SER:O	3:C:3390:GLN:NE2	2.24	0.71
3:L:2189:ILE:O	3:L:2192:THR:OG1	2.09	0.71
1:A:346:MET:HB2	1:A:399:ARG:HB2	1.73	0.71
3:C:56:SER:HB2	3:C:3097:ASP:HB2	1.72	0.71
3:L:3467:ARG:NH2	3:L:3470:GLN:HB3	2.06	0.71
3:C:1129:ASP:O	3:C:1133:HIS:ND1	2.22	0.71
9:X:824:ALA:HB2	9:X:833:ASN:HD21	1.54	0.71
3:C:3467:ARG:NH2	3:C:3470:GLN:HB3	2.06	0.71
7:F:106:PHE:CE2	8:H:112:LEU:HD21	2.26	0.71
3:L:3917:ILE:HG23	3:L:4051:LEU:HD21	1.72	0.71
3:C:2274:ILE:HD11	3:C:2306:ASN:HD21	1.56	0.70
1:J:106:GLN:HB3	1:J:115:ARG:HE	1.56	0.70
3:L:1075:ARG:HH12	3:L:1114:ALA:HB3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1935:GLU:OE1	3:L:1935:GLU:N	2.21	0.70
7:O:134:ILE:HG12	7:P:134:ILE:HA	1.73	0.70
3:C:1479:VAL:HG12	3:C:1518:ALA:HA	1.72	0.70
3:C:3439:LEU:O	3:C:3442:TYR:N	2.22	0.70
2:K:61:THR:O	2:K:76:ASN:ND2	2.22	0.70
3:L:3281:CYS:O	3:L:3285:HIS:ND1	2.24	0.70
3:L:3502:MET:HB2	3:L:3514:VAL:HG11	1.73	0.70
3:L:3722:PHE:HB3	3:L:3740:ILE:HA	1.73	0.70
3:C:121:ALA:N	6:E:12:DT:OP1	2.23	0.70
3:L:1082:PHE:CE2	3:L:1134:LEU:HG	2.25	0.70
3:L:56:SER:HB2	3:L:3097:ASP:HB2	1.72	0.70
3:L:3386:SER:O	3:L:3390:GLN:NE2	2.24	0.70
3:C:3502:MET:HB2	3:C:3514:VAL:HG11	1.73	0.70
3:C:3031:TRP:HE1	3:C:3064:PHE:HZ	1.38	0.70
3:L:2848:PHE:HB2	3:L:3077:ILE:HD11	1.72	0.70
3:C:1075:ARG:HH12	3:C:1114:ALA:HB3	1.56	0.70
3:C:2578:GLU:OE2	3:L:947:GLN:HB3	1.92	0.70
3:L:1146:ASN:OD1	3:L:1165:LEU:N	2.16	0.70
3:L:3439:LEU:O	3:L:3442:TYR:N	2.23	0.70
3:L:752:LEU:HD22	3:L:792:ILE:HD11	1.74	0.70
1:A:106:GLN:HB3	1:A:115:ARG:HE	1.57	0.70
1:A:481:PRO:HD3	1:A:507:THR:HG21	1.74	0.70
3:C:305:ASN:OD1	3:C:308:LEU:N	2.25	0.70
3:C:3921:GLY:O	3:C:3923:ARG:NE	2.22	0.70
2:K:266:SER:HB3	2:K:363:LYS:HG3	1.72	0.70
3:L:121:ALA:N	6:N:12:DT:OP1	2.23	0.70
1:A:271:VAL:HG11	1:A:368:VAL:HG13	1.74	0.69
3:C:476:ARG:O	3:C:479:ILE:HG22	1.92	0.69
3:C:3582:GLU:O	3:C:3585:PHE:N	2.20	0.69
1:J:456:PRO:HA	1:J:459:VAL:HG12	1.74	0.69
1:A:452:ILE:HD11	2:B:374:ALA:HB3	1.74	0.69
3:C:1877:LEU:HD13	3:C:1915:LEU:HD21	1.74	0.69
3:L:1174:ALA:O	3:L:1228:GLY:N	2.23	0.69
7:O:130:CYS:HB3	7:P:134:ILE:CD1	2.20	0.69
1:A:253:LYS:HA	2:B:433:TYR:HE1	1.57	0.69
1:A:352:PRO:HD2	1:A:352:PRO:O	1.92	0.69
1:J:271:VAL:HG11	1:J:368:VAL:HG13	1.74	0.69
1:J:346:MET:HB2	1:J:399:ARG:HB2	1.72	0.69
3:C:465:PHE:HD1	3:C:479:ILE:HD11	1.57	0.69
2:B:266:SER:HB3	2:B:363:LYS:HG3	1.72	0.69
3:L:476:ARG:O	3:L:479:ILE:HG22	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3797:THR:HG23	3:L:3799:ARG:H	1.58	0.69
1:J:481:PRO:HD3	1:J:507:THR:HG21	1.74	0.69
3:L:305:ASN:OD1	3:L:308:LEU:N	2.25	0.69
3:C:118:ASP:OD1	3:C:119:ARG:N	2.26	0.69
3:C:3281:CYS:O	3:C:3285:HIS:ND1	2.24	0.69
3:C:3722:PHE:HB3	3:C:3740:ILE:HA	1.73	0.69
3:L:118:ASP:OD1	3:L:119:ARG:N	2.26	0.69
3:L:449:TYR:HB3	3:L:453:MET:HB3	1.75	0.69
9:Y:741:ARG:NH1	9:Y:741:ARG:O	2.26	0.69
3:C:801:LYS:O	3:C:3115:SER:OG	2.11	0.69
3:C:3530:VAL:HG21	3:C:3568:ILE:HD13	1.75	0.69
3:C:3701:ILE:HG13	3:C:3717:VAL:HG13	1.74	0.69
2:K:262:ALA:N	2:K:365:PHE:O	2.22	0.69
3:L:3156:PRO:HD2	3:L:3157:LEU:H	1.57	0.69
3:C:994:TRP:CH2	3:C:2581:LEU:HB3	2.27	0.69
3:C:2773:ARG:HH11	3:C:2775:TYR:HE1	1.39	0.69
3:L:1235:ILE:HG13	3:L:1259:LEU:HG	1.75	0.69
3:L:2274:ILE:HD11	3:L:2306:ASN:HD21	1.56	0.69
3:L:2773:ARG:HH11	3:L:2775:TYR:HE1	1.39	0.69
3:L:3701:ILE:HG13	3:L:3717:VAL:HG13	1.74	0.69
3:C:1271:ILE:HD12	3:C:1348:LEU:HA	1.75	0.68
3:C:1945:TYR:HE2	3:C:2097:LEU:HD21	1.59	0.68
3:C:3797:THR:HG23	3:C:3799:ARG:H	1.58	0.68
3:L:2977:ASN:OD1	7:P:272:ARG:NH2	2.26	0.68
3:C:752:LEU:HD22	3:C:792:ILE:HD11	1.74	0.68
3:L:994:TRP:CH2	3:L:2581:LEU:HB3	2.28	0.68
2:B:358:GLY:HA2	2:B:423:GLN:HB3	1.76	0.68
3:C:2329:TYR:CE2	3:C:2333:ARG:HG3	2.28	0.68
3:L:1237:ALA:O	3:L:1240:THR:OG1	2.11	0.68
3:L:2508:GLN:HE22	3:L:2549:LYS:HD2	1.56	0.68
3:C:1235:ILE:HG13	3:C:1259:LEU:HG	1.75	0.68
1:J:452:ILE:HD11	2:K:374:ALA:HB3	1.74	0.68
3:L:2405:VAL:HA	3:L:2408:MET:HE1	1.75	0.68
3:L:135:LEU:HD12	3:L:184:VAL:HG21	1.76	0.68
3:L:465:PHE:HD1	3:L:479:ILE:HD11	1.57	0.68
3:L:3031:TRP:HE1	3:L:3064:PHE:HZ	1.38	0.68
3:C:3465:PHE:HB3	3:C:3498:TRP:HZ2	1.58	0.68
2:K:358:GLY:HA2	2:K:423:GLN:HB3	1.76	0.68
3:L:2203:THR:HG21	3:L:2247:ASP:HB2	1.75	0.68
3:L:3465:PHE:HB3	3:L:3498:TRP:HZ2	1.58	0.68
3:C:2198:GLY:HA3	3:C:2722:ARG:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2891:ARG:HH21	3:L:2891:ARG:HG3	1.59	0.68
3:L:3148:GLN:HA	3:L:3151:LEU:HB2	1.76	0.68
1:A:71:TYR:CD2	1:A:116:ILE:HD11	2.29	0.68
1:A:456:PRO:HA	1:A:459:VAL:HG12	1.74	0.68
3:C:135:LEU:HD12	3:C:184:VAL:HG21	1.76	0.68
3:C:1237:ALA:O	3:C:1240:THR:OG1	2.11	0.68
3:C:3156:PRO:HD2	3:C:3157:LEU:H	1.57	0.68
1:J:253:LYS:HA	2:K:433:TYR:HE1	1.57	0.68
9:X:741:ARG:NH1	9:X:741:ARG:O	2.26	0.68
1:A:253:LYS:HA	2:B:433:TYR:CE1	2.29	0.68
3:C:449:TYR:HB3	3:C:453:MET:HB3	1.75	0.68
1:J:71:TYR:CD2	1:J:116:ILE:HD11	2.29	0.68
3:L:2329:TYR:CE2	3:L:2333:ARG:HG3	2.28	0.68
3:L:3530:VAL:HG21	3:L:3568:ILE:HD13	1.75	0.68
3:C:1098:GLN:HB2	3:C:1152:ARG:HE	1.59	0.68
3:L:3227:ILE:O	3:L:3230:LEU:N	2.27	0.68
3:C:1455:CYS:SG	3:C:1517:LEU:HD13	2.34	0.67
3:C:3227:ILE:O	3:C:3230:LEU:N	2.27	0.67
1:J:352:PRO:O	1:J:352:PRO:HD2	1.92	0.67
3:L:938:VAL:HG21	3:L:969:LEU:HD11	1.76	0.67
3:L:1751:GLU:OE1	3:L:1788:ARG:NH2	2.27	0.67
3:L:1820:VAL:HG12	3:L:1824:LEU:HD13	1.75	0.67
2:B:116:ASP:O	2:B:120:HIS:ND1	2.27	0.67
3:C:1820:VAL:HG12	3:C:1824:LEU:HD13	1.74	0.67
3:C:2977:ASN:OD1	7:F:272:ARG:NH2	2.27	0.67
3:L:1696:LEU:HB3	3:L:1758:LEU:HD21	1.76	0.67
3:L:1909:ASN:ND2	3:L:1912:THR:OG1	2.26	0.67
3:C:2189:ILE:O	3:C:2192:THR:OG1	2.09	0.67
3:L:1877:LEU:HD13	3:L:1915:LEU:HD21	1.75	0.67
3:L:1945:TYR:HE2	3:L:2097:LEU:HD21	1.59	0.67
3:L:2981:TRP:CD1	3:L:2986:PRO:HD3	2.29	0.67
2:B:61:THR:OG1	2:B:63:GLY:O	2.12	0.67
2:B:234:LEU:HD21	8:I:299:PHE:HE1	1.60	0.67
2:B:411:HIS:N	2:B:418:CYS:O	2.23	0.67
3:C:2203:THR:HG21	3:C:2247:ASP:HB2	1.75	0.67
3:C:3006:ALA:HA	3:C:3008:TRP:HE1	1.60	0.67
3:C:3148:GLN:HA	3:C:3151:LEU:HB2	1.76	0.67
3:C:3263:HIS:O	3:C:3266:SER:N	2.23	0.67
7:F:134:ILE:HA	7:G:134:ILE:HG12	1.74	0.67
1:J:253:LYS:HA	2:K:433:TYR:CE1	2.29	0.67
3:L:1098:GLN:HB2	3:L:1152:ARG:HE	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:243:GLN:O	3:C:247:GLU:HG3	1.95	0.67
3:C:2753:ARG:NH2	3:C:2756:GLU:OE2	2.28	0.67
3:C:2981:TRP:CD1	3:C:2986:PRO:HD3	2.29	0.67
8:H:299:PHE:HE1	2:K:234:LEU:CD2	2.06	0.67
2:K:116:ASP:O	2:K:120:HIS:ND1	2.27	0.67
3:L:1271:ILE:HD12	3:L:1348:LEU:HA	1.76	0.67
3:C:1958:GLU:HB2	3:C:1961:PHE:HD1	1.60	0.67
1:J:370:PRO:HG3	1:J:382:PHE:CG	2.30	0.67
3:L:1455:CYS:SG	3:L:1517:LEU:HD13	2.34	0.67
3:L:2241:LEU:HD12	3:L:2245:TRP:HE1	1.60	0.67
3:L:2198:GLY:HA3	3:L:2722:ARG:HB3	1.76	0.67
1:A:59:PRO:HB3	1:A:205:LEU:HD13	1.77	0.67
3:C:970:LEU:HD11	3:C:1013:ILE:HD13	1.77	0.67
1:J:363:ARG:HD2	1:J:436:PHE:CE1	2.30	0.67
1:A:370:PRO:HG3	1:A:382:PHE:CG	2.30	0.66
3:C:51:LEU:HD21	3:C:96:MET:HG2	1.77	0.66
3:C:3328:ILE:HD11	3:C:3415:THR:HG21	1.77	0.66
2:K:61:THR:OG1	2:K:63:GLY:O	2.12	0.66
3:L:243:GLN:O	3:L:247:GLU:HG3	1.95	0.66
3:L:1449:ALA:HA	3:L:1452:VAL:HG22	1.77	0.66
1:A:363:ARG:HD2	1:A:436:PHE:CE1	2.30	0.66
3:L:3328:ILE:HD11	3:L:3415:THR:HG21	1.77	0.66
3:L:3360:LEU:O	3:L:3363:SER:OG	2.11	0.66
1:A:317:LYS:HA	1:A:317:LYS:HE3	1.77	0.66
2:B:265:LYS:HZ2	5:D:8:DA:H5''	1.59	0.66
3:L:51:LEU:HD21	3:L:96:MET:HG2	1.77	0.66
3:L:3425:ARG:CZ	3:L:3467:ARG:HH11	2.08	0.66
3:C:938:VAL:HG21	3:C:969:LEU:HD11	1.76	0.66
3:C:1751:GLU:OE1	3:C:1788:ARG:NH2	2.27	0.66
3:C:1696:LEU:HB3	3:C:1758:LEU:HD21	1.76	0.66
1:J:78:SER:O	1:J:80:ARG:N	2.29	0.66
3:L:1897:ASN:N	3:L:1898:GLN:OE1	2.28	0.66
3:L:3006:ALA:HA	3:L:3008:TRP:HE1	1.60	0.66
1:A:78:SER:O	1:A:80:ARG:N	2.29	0.66
3:C:58:VAL:HG13	3:C:65:LEU:HD13	1.76	0.66
3:C:1449:ALA:HA	3:C:1452:VAL:HG22	1.77	0.66
3:C:1799:GLU:O	3:C:1803:GLU:HG2	1.95	0.66
3:C:1897:ASN:N	3:C:1898:GLN:OE1	2.28	0.66
3:C:1909:ASN:ND2	3:C:1912:THR:OG1	2.27	0.66
3:C:3425:ARG:CZ	3:C:3467:ARG:HH11	2.08	0.66
3:L:946:THR:HG21	3:L:2581:LEU:HD21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:58:VAL:HG13	3:L:65:LEU:HD13	1.77	0.66
1:A:58:THR:HB	1:A:61:ASP:HB2	1.77	0.66
3:C:2603:THR:HB	3:C:2604:PRO:HD3	1.78	0.66
7:O:134:ILE:CD1	7:P:134:ILE:HG13	2.25	0.66
3:C:2891:ARG:HH21	3:C:2891:ARG:HG3	1.59	0.66
3:L:935:HIS:HB2	3:L:984:TYR:HE1	1.60	0.66
3:L:970:LEU:HD11	3:L:1013:ILE:HD13	1.77	0.66
3:L:1799:GLU:O	3:L:1803:GLU:HG2	1.95	0.66
2:K:265:LYS:HZ2	5:M:8:DA:H5"	1.61	0.66
3:L:1958:GLU:HB2	3:L:1961:PHE:HD1	1.60	0.66
3:L:3448:GLU:HG3	3:L:3485:LYS:HG2	1.78	0.66
3:C:724:GLU:HG2	3:C:2602:LEU:HA	1.79	0.65
3:C:2405:VAL:HA	3:C:2408:MET:HE1	1.78	0.65
3:L:724:GLU:HG2	3:L:2602:LEU:HA	1.78	0.65
3:L:801:LYS:O	3:L:3115:SER:OG	2.11	0.65
9:Y:724:ALA:HA	9:Y:727:LEU:HD12	1.78	0.65
2:B:265:LYS:NZ	5:D:8:DA:H5"	2.12	0.65
3:L:3881:ASP:H	3:L:3969:ASN:ND2	1.94	0.65
1:A:368:VAL:HG12	1:A:382:PHE:HE2	1.62	0.65
3:C:2241:LEU:HD12	3:C:2245:TRP:HE1	1.60	0.65
1:J:58:THR:HB	1:J:61:ASP:HB2	1.77	0.65
1:J:204:HIS:O	1:J:236:SER:OG	2.10	0.65
3:L:2753:ARG:NH2	3:L:2756:GLU:OE2	2.28	0.65
1:J:317:LYS:HA	1:J:317:LYS:HE3	1.77	0.65
3:L:2587:GLN:O	3:L:2777:HIS:N	2.29	0.65
7:F:134:ILE:HG13	7:G:134:ILE:CD1	2.26	0.65
1:J:115:ARG:HB2	1:J:115:ARG:NH2	2.12	0.65
2:K:246:HIS:HA	2:K:264:TYR:CE1	2.32	0.65
3:L:713:GLU:O	3:L:717:LYS:HG3	1.96	0.65
1:A:40:PHE:N	1:A:84:ALA:O	2.29	0.65
2:B:242:ARG:NH1	2:B:243:HIS:O	2.29	0.65
3:C:3360:LEU:O	3:C:3363:SER:OG	2.11	0.65
3:L:3239:LYS:O	3:L:3243:ILE:HD12	1.96	0.65
9:Y:722:LYS:HZ3	9:Y:742:PHE:HD1	1.45	0.65
3:C:935:HIS:HB2	3:C:984:TYR:HE1	1.60	0.65
3:C:3151:LEU:HG	3:C:3196:LYS:HE2	1.79	0.65
1:A:108:LEU:HD11	1:A:154:PHE:HD1	1.62	0.65
1:A:207:LYS:HD3	1:A:210:GLY:HA3	1.79	0.65
3:C:16:GLN:NE2	3:C:64:GLY:H	1.95	0.65
3:C:713:GLU:O	3:C:717:LYS:HG3	1.96	0.65
2:K:242:ARG:NH1	2:K:243:HIS:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:919:LEU:HD11	3:C:968:VAL:HG13	1.77	0.65
3:C:946:THR:HG21	3:C:2581:LEU:HD21	1.78	0.65
2:K:245:ILE:HD13	5:M:8:DA:H5'	1.79	0.65
3:L:2603:THR:HB	3:L:2604:PRO:HD3	1.78	0.65
3:C:853:ILE:HG13	3:C:3107:ILE:HG21	1.79	0.64
3:C:3060:SER:O	3:C:3063:THR:OG1	2.15	0.64
1:J:59:PRO:HB3	1:J:205:LEU:HD13	1.77	0.64
3:C:3448:GLU:HG3	3:C:3485:LYS:HG2	1.78	0.64
3:C:3881:ASP:H	3:C:3969:ASN:ND2	1.94	0.64
1:J:41:LEU:HD13	1:J:86:VAL:HG13	1.79	0.64
3:L:932:GLU:OE1	3:L:2793:PRO:HB3	1.97	0.64
3:C:204:LEU:O	3:C:208:MET:HG2	1.97	0.64
3:C:1711:ARG:NH1	3:C:1760:GLU:OE2	2.22	0.64
3:C:1860:GLU:N	3:C:1860:GLU:OE1	2.31	0.64
2:K:409:PHE:N	2:K:420:VAL:O	2.31	0.64
3:L:853:ILE:HG13	3:L:3107:ILE:HG21	1.79	0.64
3:L:910:PHE:HE1	3:L:2794:LEU:HD21	1.63	0.64
9:X:724:ALA:HA	9:X:727:LEU:HD12	1.78	0.64
3:C:32:HIS:CD2	3:C:84:GLU:HG3	2.32	0.64
3:C:1018:VAL:HG23	3:C:1074:LYS:HA	1.79	0.64
3:C:1619:ALA:HA	3:C:1652:ILE:HD11	1.79	0.64
3:C:2587:GLN:O	3:C:2777:HIS:N	2.29	0.64
3:C:3579:SER:HA	3:C:3736:LYS:HZ1	1.63	0.64
3:L:631:ARG:HH11	3:L:668:LYS:HD3	1.62	0.64
3:L:1035:GLU:OE2	3:L:1039:TRP:NE1	2.31	0.64
3:L:3330:LEU:HB3	3:L:3384:HIS:NE2	2.11	0.64
3:C:493:LYS:HG2	3:C:494:PRO:HD2	1.80	0.64
1:J:207:LYS:HD3	1:J:210:GLY:HA3	1.79	0.64
2:K:265:LYS:NZ	5:M:8:DA:H5''	2.12	0.64
3:L:1069:HIS:CE1	3:L:1074:LYS:HD2	2.33	0.64
3:L:1860:GLU:OE1	3:L:1860:GLU:N	2.31	0.64
3:L:2159:PRO:O	3:L:2161:ALA:N	2.31	0.64
1:A:490:LEU:HD11	2:B:316:TYR:HB2	1.79	0.64
2:B:242:ARG:HD3	2:B:273:LYS:HZ2	1.62	0.64
2:B:245:ILE:HD13	5:D:8:DA:H5'	1.79	0.64
3:C:3006:ALA:HB3	3:C:3257:LYS:HD2	1.80	0.64
1:J:368:VAL:HG12	1:J:382:PHE:HE2	1.62	0.64
3:L:919:LEU:HD11	3:L:968:VAL:HG13	1.78	0.64
3:L:1018:VAL:HG23	3:L:1074:LYS:HA	1.79	0.64
3:L:2148:LYS:HA	3:L:2151:ILE:HD12	1.80	0.64
3:L:3060:SER:O	3:L:3063:THR:OG1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:134:ILE:CG2	7:O:138:GLN:NE2	2.55	0.64
9:X:663:GLU:HA	9:X:688:TYR:HB3	1.80	0.64
1:A:115:ARG:HB2	1:A:115:ARG:NH2	2.12	0.64
2:B:549:THR:HA	2:B:552:GLU:HB3	1.80	0.64
3:C:1069:HIS:CE1	3:C:1074:LYS:HD2	2.33	0.64
3:C:1990:PHE:HA	3:C:2734:ARG:HD3	1.78	0.64
1:J:108:LEU:HD11	1:J:154:PHE:HD1	1.62	0.64
3:L:16:GLN:NE2	3:L:64:GLY:H	1.95	0.64
2:B:246:HIS:HA	2:B:264:TYR:CE1	2.32	0.64
3:C:910:PHE:HE1	3:C:2794:LEU:HD21	1.63	0.64
3:C:2159:PRO:O	3:C:2161:ALA:N	2.31	0.64
3:C:3330:LEU:HB3	3:C:3384:HIS:NE2	2.12	0.64
1:J:360:HIS:HB2	1:J:438:PRO:HG3	1.80	0.64
2:K:406:GLY:HA2	2:K:424:LEU:HB2	1.80	0.64
3:L:1967:PHE:HD2	3:L:2122:LEU:HG	1.63	0.64
3:L:1990:PHE:HA	3:L:2734:ARG:HD3	1.78	0.64
3:L:2773:ARG:NE	3:L:2789:SER:OG	2.30	0.64
3:L:3582:GLU:O	3:L:3585:PHE:N	2.20	0.64
2:B:406:GLY:HA2	2:B:424:LEU:HB2	1.80	0.64
2:B:409:PHE:N	2:B:420:VAL:O	2.31	0.64
3:C:2446:LEU:HB2	3:C:2450:GLU:OE2	1.98	0.64
3:C:3239:LYS:O	3:C:3243:ILE:HD12	1.97	0.64
2:K:465:LYS:H	2:K:474:GLU:H	1.46	0.64
3:L:2329:TYR:HE2	3:L:2333:ARG:HG3	1.61	0.64
2:B:465:LYS:H	2:B:474:GLU:H	1.46	0.64
3:C:2329:TYR:HE2	3:C:2333:ARG:HG3	1.61	0.64
3:C:3483:MET:O	3:C:3488:SER:OG	2.14	0.64
3:C:1035:GLU:OE2	3:C:1039:TRP:NE1	2.31	0.63
3:L:392:CYS:HA	3:L:395:MET:HG3	1.79	0.63
1:A:75:ILE:HD13	1:A:111:PRO:HB2	1.80	0.63
3:C:169:THR:O	3:C:172:GLU:HG2	1.98	0.63
1:J:415:PRO:O	1:J:416:GLN:NE2	2.31	0.63
3:L:1046:PRO:HA	3:L:1049:GLN:HB3	1.80	0.63
3:L:1181:THR:O	3:L:1184:ARG:HG2	1.99	0.63
3:L:2358:ASP:OD1	3:L:2359:LYS:N	2.31	0.63
3:L:2446:LEU:HB2	3:L:2450:GLU:OE2	1.98	0.63
3:L:3856:MET:HE2	3:L:4072:PRO:HD2	1.81	0.63
2:B:56:LEU:HB2	2:B:80:HIS:HB3	1.80	0.63
3:C:1443:VAL:O	3:C:1447:ARG:NH1	2.31	0.63
1:J:483:LEU:HD13	2:K:428:GLU:HG3	1.81	0.63
2:K:264:TYR:O	2:K:363:LYS:N	2.20	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:32:HIS:CD2	3:L:84:GLU:HG3	2.33	0.63
3:L:3443:PRO:HA	3:L:3446:VAL:HG12	1.80	0.63
7:O:134:ILE:HG22	7:O:138:GLN:HE22	1.63	0.63
2:B:151:ILE:HA	2:B:154:LEU:HD12	1.80	0.63
3:C:4047:ALA:O	3:C:4050:LYS:HG2	1.99	0.63
3:L:204:LEU:O	3:L:208:MET:HG2	1.97	0.63
3:L:3467:ARG:HH22	3:L:3471:ILE:N	1.97	0.63
1:A:455:THR:H	1:A:458:GLN:NE2	1.96	0.63
3:C:275:PHE:HZ	3:C:286:LEU:HD11	1.64	0.63
3:C:932:GLU:OE1	3:C:2793:PRO:HB3	1.98	0.63
3:C:1281:VAL:HG12	3:C:1282:LEU:HD12	1.80	0.63
3:C:1935:GLU:HG2	3:C:1936:ARG:HD2	1.80	0.63
3:C:1967:PHE:HD2	3:C:2122:LEU:HG	1.63	0.63
5:D:23:DG:H2'	5:D:24:DA:C8	2.34	0.63
3:L:1443:VAL:O	3:L:1447:ARG:NH1	2.31	0.63
1:A:41:LEU:HD13	1:A:86:VAL:HG13	1.79	0.63
3:L:477:ASN:O	3:L:480:SER:OG	2.16	0.63
3:L:493:LYS:HG2	3:L:494:PRO:HD2	1.80	0.63
3:L:1619:ALA:HA	3:L:1652:ILE:HD11	1.79	0.63
3:L:3151:LEU:HG	3:L:3196:LYS:HE2	1.79	0.63
1:A:415:PRO:O	1:A:416:GLN:NE2	2.31	0.63
3:C:392:CYS:HA	3:C:395:MET:HG3	1.79	0.63
3:C:892:LEU:HD11	3:C:961:LEU:HD21	1.80	0.63
3:C:1878:ASP:OD1	3:C:1879:VAL:N	2.31	0.63
2:K:56:LEU:HB2	2:K:80:HIS:HB3	1.80	0.63
3:L:892:LEU:HD11	3:L:961:LEU:HD21	1.80	0.63
3:L:1169:VAL:HG21	3:L:1198:LEU:HD21	1.81	0.63
3:L:1878:ASP:OD1	3:L:1879:VAL:N	2.31	0.63
3:L:3183:ILE:HD11	3:L:3239:LYS:HG2	1.81	0.63
1:A:360:HIS:HB2	1:A:438:PRO:HG3	1.80	0.63
1:A:483:LEU:HD13	2:B:428:GLU:HG3	1.81	0.63
3:C:3179:TRP:HD1	3:C:3242:MET:HG3	1.62	0.63
3:C:3183:ILE:HD11	3:C:3239:LYS:HG2	1.81	0.63
3:C:3977:THR:HA	3:C:3981:TYR:CB	2.29	0.63
2:K:242:ARG:HD3	2:K:273:LYS:HZ2	1.64	0.63
3:L:493:LYS:HE3	3:L:522:PRO:C	2.19	0.63
3:L:1479:VAL:O	3:L:1482:GLU:HG3	1.99	0.63
3:L:3179:TRP:HD1	3:L:3242:MET:HG3	1.61	0.63
2:B:300:ASP:H	3:C:117:LYS:NZ	1.97	0.63
3:C:631:ARG:HH11	3:C:668:LYS:HD3	1.62	0.63
3:C:2582:SER:OG	3:C:2583:GLU:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3467:ARG:HH22	3:C:3471:ILE:N	1.97	0.63
1:J:43:ASP:HA	1:J:88:TYR:CE1	2.34	0.63
3:L:275:PHE:HZ	3:L:286:LEU:HD11	1.64	0.63
3:L:1981:LEU:HD13	3:L:2139:PRO:HG2	1.81	0.63
5:M:2:DC:N3	6:N:29:DG:N2	2.47	0.63
3:C:1046:PRO:HA	3:C:1049:GLN:HB3	1.80	0.62
2:K:549:THR:HA	2:K:552:GLU:HB3	1.80	0.62
3:L:446:PHE:CD2	3:L:530:LEU:HD13	2.34	0.62
3:L:1323:SER:OG	3:L:1326:GLU:OE1	2.17	0.62
3:L:3006:ALA:HB3	3:L:3257:LYS:HD2	1.80	0.62
3:C:1287:GLN:OE1	3:C:1289:SER:OG	2.13	0.62
3:C:1444:ASP:OD1	3:C:1445:ARG:N	2.32	0.62
3:C:1479:VAL:O	3:C:1482:GLU:HG3	1.99	0.62
3:C:3443:PRO:HA	3:C:3446:VAL:HG12	1.80	0.62
2:K:300:ASP:H	3:L:117:LYS:NZ	1.97	0.62
3:L:3493:TRP:O	3:L:3496:ILE:N	2.30	0.62
3:L:3786:LEU:HB3	3:L:3910:LEU:HD22	1.81	0.62
1:A:124:GLY:O	1:A:128:GLN:N	2.30	0.62
3:C:1181:THR:O	3:C:1184:ARG:HG2	1.99	0.62
3:C:1938:ARG:NH1	3:C:1978:PHE:O	2.32	0.62
3:C:2148:LYS:HA	3:C:2151:ILE:HD12	1.80	0.62
3:C:2358:ASP:OD1	3:C:2359:LYS:N	2.31	0.62
1:J:455:THR:H	1:J:458:GLN:NE2	1.96	0.62
2:K:151:ILE:HA	2:K:154:LEU:HD12	1.80	0.62
2:K:353:ARG:HA	2:K:356:PHE:CE1	2.34	0.62
3:L:1287:GLN:OE1	3:L:1289:SER:OG	2.13	0.62
5:M:23:DG:H2'	5:M:24:DA:C8	2.34	0.62
3:C:348:ILE:O	3:C:352:VAL:HG12	1.99	0.62
3:C:446:PHE:CD2	3:C:530:LEU:HD13	2.35	0.62
3:C:3486:GLU:O	3:C:3489:SER:N	2.24	0.62
3:C:3786:LEU:HB3	3:C:3910:LEU:HD22	1.81	0.62
1:J:490:LEU:HD11	2:K:316:TYR:HB2	1.79	0.62
3:L:1281:VAL:HG12	3:L:1282:LEU:HD12	1.80	0.62
3:L:1938:ARG:NH1	3:L:1978:PHE:O	2.32	0.62
3:L:3813:LYS:HB3	3:L:3925:LEU:HB3	1.82	0.62
3:C:153:PHE:HE1	3:C:196:LEU:HD12	1.65	0.62
3:C:1046:PRO:HD2	3:C:1047:GLN:H	1.64	0.62
3:C:3151:LEU:O	3:C:3196:LYS:NZ	2.33	0.62
3:C:3327:ASN:HD22	3:C:3384:HIS:CE1	2.17	0.62
1:J:124:GLY:O	1:J:128:GLN:N	2.30	0.62
3:L:169:THR:O	3:L:172:GLU:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:416:SER:O	3:L:419:SER:OG	2.14	0.62
3:L:3327:ASN:HD22	3:L:3384:HIS:CE1	2.17	0.62
3:L:3731:SER:H	3:L:3734:ARG:NE	1.97	0.62
3:L:4047:ALA:O	3:L:4050:LYS:HG2	1.99	0.62
3:C:493:LYS:HE3	3:C:522:PRO:C	2.19	0.62
1:A:204:HIS:O	1:A:236:SER:OG	2.10	0.62
3:C:416:SER:O	3:C:419:SER:OG	2.14	0.62
3:C:1981:LEU:HD13	3:C:2139:PRO:HG2	1.81	0.62
5:D:24:DA:C2	5:D:25:DT:C2	2.88	0.62
3:L:348:ILE:O	3:L:352:VAL:HG12	1.99	0.62
3:L:3792:SER:N	3:L:3804:GLU:OE2	2.25	0.62
1:A:109:ASP:OD2	1:A:115:ARG:NH1	2.33	0.62
3:C:409:GLN:O	3:C:412:SER:N	2.32	0.62
3:C:4073:ALA:O	3:C:4076:ASP:N	2.33	0.62
3:L:1087:ARG:HE	3:L:1090:ARG:HE	1.47	0.62
3:L:1684:LEU:HD12	3:L:1688:LEU:HB3	1.82	0.62
3:L:2582:SER:OG	3:L:2583:GLU:N	2.32	0.62
1:A:372:GLU:OE2	1:A:377:GLY:N	2.22	0.62
3:C:769:GLY:O	3:C:772:ALA:N	2.33	0.62
3:C:3731:SER:H	3:C:3734:ARG:NE	1.97	0.62
3:L:1294:VAL:HA	3:L:1298:LEU:HD12	1.82	0.62
3:L:3465:PHE:HB3	3:L:3498:TRP:CZ2	2.35	0.62
1:A:43:ASP:HA	1:A:88:TYR:CE1	2.34	0.62
2:B:35:LYS:HE3	2:B:98:ILE:HG21	1.82	0.62
3:C:2773:ARG:NE	3:C:2789:SER:OG	2.30	0.62
3:C:737:PRO:O	3:C:740:ILE:HG22	2.00	0.61
3:C:1169:VAL:HG21	3:C:1198:LEU:HD21	1.80	0.61
3:C:1493:PRO:HG3	3:C:1500:LEU:HA	1.81	0.61
5:D:2:DC:N3	6:E:29:DG:N2	2.47	0.61
3:L:769:GLY:O	3:L:772:ALA:N	2.33	0.61
3:L:3263:HIS:O	3:L:3266:SER:N	2.23	0.61
5:M:24:DA:C2	5:M:25:DT:C2	2.88	0.61
3:C:85:ILE:HG23	3:C:86:LEU:HD12	1.80	0.61
3:C:330:ASN:OD1	3:C:331:ALA:N	2.32	0.61
3:C:3058:ASP:OD1	3:C:3060:SER:N	2.33	0.61
3:C:3493:TRP:O	3:C:3496:ILE:N	2.30	0.61
3:L:85:ILE:HG23	3:L:86:LEU:HD12	1.80	0.61
3:L:670:LEU:HD11	3:L:707:PHE:HE2	1.65	0.61
3:L:2239:LYS:HD3	3:L:2279:ILE:HG23	1.81	0.61
3:C:3465:PHE:HB3	3:C:3498:TRP:CZ2	2.35	0.61
3:C:3792:SER:N	3:C:3804:GLU:OE2	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:ASP:OD2	1:J:115:ARG:NH1	2.33	0.61
3:L:474:VAL:HG13	3:L:475:LEU:HG	1.81	0.61
3:L:2773:ARG:HE	3:L:2789:SER:HG	1.48	0.61
2:B:353:ARG:HA	2:B:356:PHE:CE1	2.34	0.61
3:C:2595:TRP:CD2	3:C:2764:LYS:HE2	2.35	0.61
6:E:25:DC:O2	6:E:26:DT:N3	2.33	0.61
1:J:75:ILE:HG21	2:K:316:TYR:CZ	2.36	0.61
3:L:237:SER:HB2	3:L:281:GLN:HA	1.82	0.61
3:L:2595:TRP:CD2	3:L:2764:LYS:HE2	2.36	0.61
1:A:467:GLU:O	1:A:470:ARG:HG3	2.01	0.61
3:C:463:LYS:HA	3:C:466:LEU:HD23	1.81	0.61
3:C:1897:ASN:OD1	3:C:1898:GLN:NE2	2.33	0.61
3:C:3856:MET:HE2	3:C:4072:PRO:HD2	1.82	0.61
1:J:75:ILE:HD13	1:J:111:PRO:HB2	1.81	0.61
2:K:35:LYS:HE3	2:K:98:ILE:HG21	1.82	0.61
3:L:3151:LEU:O	3:L:3196:LYS:NZ	2.33	0.61
3:L:3723:ASP:HB2	3:L:3741:ARG:HH11	1.66	0.61
3:C:670:LEU:HD11	3:C:707:PHE:HE2	1.65	0.61
3:C:928:VAL:HG11	3:C:2769:VAL:HB	1.82	0.61
3:C:1834:ASP:OD1	3:C:1837:ARG:NH2	2.27	0.61
3:C:3031:TRP:HH2	3:C:3078:LEU:HG	1.66	0.61
7:G:134:ILE:HG22	7:G:138:GLN:HE22	1.64	0.61
8:H:299:PHE:CE1	2:K:233:LYS:HD2	2.36	0.61
1:J:40:PHE:N	1:J:84:ALA:O	2.29	0.61
2:K:227:PHE:O	2:K:230:SER:OG	2.16	0.61
2:K:465:LYS:O	2:K:474:GLU:N	2.34	0.61
3:L:345:PHE:CE2	3:L:366:TYR:HA	2.36	0.61
3:L:3977:THR:HA	3:L:3981:TYR:CB	2.29	0.61
3:L:4073:ALA:O	3:L:4076:ASP:N	2.33	0.61
3:C:524:TYR:OH	3:C:628:GLU:HG2	2.01	0.61
3:C:2239:LYS:HD3	3:C:2279:ILE:HG23	1.81	0.61
3:L:868:LYS:HD3	3:L:3126:LEU:HD11	1.82	0.61
3:L:1444:ASP:OD1	3:L:1445:ARG:N	2.32	0.61
3:L:1935:GLU:HG2	3:L:1936:ARG:HD2	1.80	0.61
1:A:75:ILE:HG21	2:B:316:TYR:CZ	2.36	0.61
2:B:465:LYS:O	2:B:474:GLU:N	2.34	0.61
3:C:367:GLY:O	3:C:369:PHE:N	2.34	0.61
3:C:474:VAL:HG13	3:C:475:LEU:HG	1.81	0.61
3:C:1087:ARG:HE	3:C:1090:ARG:HE	1.47	0.61
3:C:3763:ARG:O	3:C:3767:LEU:HD12	2.01	0.61
1:J:233:PHE:CG	1:J:234:GLU:N	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:368:VAL:HB	1:J:432:PHE:HB2	1.83	0.61
2:K:411:HIS:N	2:K:418:CYS:O	2.23	0.61
3:L:1493:PRO:HG3	3:L:1500:LEU:HA	1.81	0.61
3:L:3032:SER:OG	3:L:3033:GLU:OE1	2.16	0.61
3:C:1373:VAL:HG22	3:C:1423:ILE:HG21	1.83	0.61
3:C:3228:SER:HB2	3:C:3232:ARG:HH12	1.66	0.61
1:J:134:MET:HG3	1:J:135:MET:HG2	1.81	0.61
3:L:153:PHE:HE1	3:L:196:LEU:HD12	1.65	0.61
3:L:3141:PHE:CD1	3:L:3189:PHE:HB3	2.36	0.61
1:A:368:VAL:HB	1:A:432:PHE:HB2	1.83	0.61
2:B:9:ALA:HB3	2:B:130:ARG:HG3	1.83	0.61
1:J:168:LEU:HB2	1:J:202:LEU:HB2	1.82	0.61
2:K:509:GLN:OE1	2:K:511:HIS:NE2	2.28	0.61
3:L:1009:LEU:O	3:L:1013:ILE:HG12	2.01	0.61
3:L:1338:VAL:HA	3:L:1341:ILE:HG12	1.83	0.61
3:L:1373:VAL:HG22	3:L:1423:ILE:HG21	1.83	0.61
3:L:3031:TRP:HH2	3:L:3078:LEU:HG	1.65	0.61
3:L:3058:ASP:OD1	3:L:3060:SER:N	2.33	0.61
3:L:3681:LYS:HG2	3:L:3724:GLU:HA	1.83	0.61
3:L:4049:ARG:NH1	3:L:4062:ASP:OD2	2.34	0.61
9:X:674:PRO:HB2	9:X:677:ASP:HB3	1.83	0.61
9:Y:663:GLU:HA	9:Y:688:TYR:HB3	1.81	0.61
3:C:1268:ASN:HD21	3:C:1344:PHE:HA	1.66	0.60
2:K:9:ALA:HB3	2:K:130:ARG:HG3	1.83	0.60
3:L:367:GLY:O	3:L:369:PHE:N	2.34	0.60
3:L:409:GLN:O	3:L:412:SER:N	2.32	0.60
3:L:524:TYR:OH	3:L:628:GLU:HG2	2.01	0.60
3:L:737:PRO:O	3:L:740:ILE:HG22	2.00	0.60
3:L:928:VAL:HG11	3:L:2769:VAL:HB	1.82	0.60
3:L:1711:ARG:NH1	3:L:1760:GLU:OE2	2.22	0.60
3:C:409:GLN:O	3:C:412:SER:OG	2.16	0.60
3:C:1367:HIS:HA	3:C:1370:ARG:HE	1.66	0.60
3:C:1601:LEU:O	3:C:1604:SER:OG	2.18	0.60
3:C:1946:ASN:ND2	3:C:2096:PRO:HG2	2.16	0.60
3:C:2891:ARG:HD3	3:C:3894:PRO:HB3	1.83	0.60
3:C:3141:PHE:CD1	3:C:3189:PHE:HB3	2.36	0.60
3:C:3771:MET:O	3:C:3774:ILE:HG22	2.01	0.60
3:C:3813:LYS:HB3	3:C:3925:LEU:HB3	1.82	0.60
3:C:4049:ARG:NH1	3:C:4062:ASP:OD2	2.34	0.60
3:L:1346:THR:HB	3:L:1402:LEU:HD13	1.82	0.60
3:L:2251:ILE:HG21	3:L:2280:VAL:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:SER:OG	2:B:445:ALA:N	2.28	0.60
3:C:1294:VAL:HA	3:C:1298:LEU:HD12	1.82	0.60
3:C:2147:ALA:O	3:C:2150:VAL:N	2.35	0.60
1:J:304:ASN:OD1	1:J:305:THR:N	2.34	0.60
3:L:463:LYS:HA	3:L:466:LEU:HD23	1.82	0.60
3:L:2182:ILE:H	3:L:2182:ILE:HD12	1.67	0.60
3:L:2581:LEU:HD12	3:L:2783:ILE:HG13	1.83	0.60
3:L:3533:PHE:CD2	3:L:3562:LEU:HD21	2.36	0.60
1:A:134:MET:HG3	1:A:135:MET:HG2	1.81	0.60
3:C:2361:ILE:HG13	3:C:2389:PHE:CE2	2.37	0.60
3:L:2165:LEU:HD11	3:L:2193:ILE:HG23	1.84	0.60
1:A:233:PHE:CG	1:A:234:GLU:N	2.69	0.60
3:C:868:LYS:HD3	3:C:3126:LEU:HD11	1.82	0.60
3:C:1346:THR:HB	3:C:1402:LEU:HD13	1.83	0.60
3:C:2474:TYR:HB3	3:C:2521:ILE:HD11	1.83	0.60
7:G:20:LEU:HD11	7:G:34:ILE:HD11	1.84	0.60
1:J:461:LYS:O	1:J:465:ILE:HD12	2.02	0.60
3:L:668:LYS:O	3:L:671:SER:OG	2.17	0.60
3:L:1946:ASN:ND2	3:L:2096:PRO:HG2	2.16	0.60
3:L:2361:ILE:HG13	3:L:2389:PHE:CE2	2.37	0.60
3:L:2474:TYR:HB3	3:L:2521:ILE:HD11	1.83	0.60
3:L:2954:GLN:HE21	3:L:2958:LEU:CD2	2.14	0.60
3:L:3763:ARG:O	3:L:3767:LEU:HD12	2.01	0.60
1:A:304:ASN:OD1	1:A:305:THR:N	2.34	0.60
3:C:237:SER:HB2	3:C:281:GLN:HA	1.81	0.60
3:C:1278:ALA:HB1	3:C:1358:LEU:HD21	1.84	0.60
3:C:1338:VAL:HA	3:C:1341:ILE:HG12	1.83	0.60
3:C:1684:LEU:HD12	3:C:1688:LEU:HB3	1.82	0.60
1:J:205:LEU:HD12	1:J:206:LYS:N	2.17	0.60
3:L:1367:HIS:HA	3:L:1370:ARG:HE	1.66	0.60
3:L:2891:ARG:HD3	3:L:3894:PRO:HB3	1.83	0.60
3:L:3771:MET:O	3:L:3774:ILE:HG22	2.01	0.60
6:N:25:DC:O2	6:N:26:DT:N3	2.33	0.60
3:C:24:ARG:HH21	3:C:75:SER:HB2	1.67	0.60
3:C:297:LEU:HD12	3:C:316:LEU:HD22	1.84	0.60
3:C:1916:ILE:HD12	3:C:1919:CYS:HB2	1.83	0.60
3:C:2954:GLN:HE21	3:C:2958:LEU:CD2	2.14	0.60
3:C:3032:SER:OG	3:C:3033:GLU:OE1	2.16	0.60
1:J:49:PHE:CD2	1:J:50:GLU:HG2	2.37	0.60
3:L:1991:PRO:HD3	3:L:2734:ARG:HE	1.67	0.60
3:L:3061:LEU:HD23	3:L:3089:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:VAL:HB	1:A:87:PHE:HD1	1.66	0.60
1:A:49:PHE:CD2	1:A:50:GLU:HG2	2.37	0.60
3:C:1009:LEU:O	3:C:1013:ILE:HG12	2.01	0.60
3:C:2182:ILE:HD12	3:C:2182:ILE:H	1.66	0.60
3:C:2562:LEU:HD13	3:C:2812:LEU:HD22	1.84	0.60
3:C:3533:PHE:CD2	3:C:3562:LEU:HD21	2.36	0.60
1:J:363:ARG:HH22	2:K:269:GLN:HE22	1.49	0.60
1:J:467:GLU:O	1:J:470:ARG:HG3	2.01	0.60
3:L:447:PRO:HG3	3:L:527:TYR:CE2	2.37	0.60
3:L:2417:SER:OG	3:L:2418:LYS:NZ	2.32	0.60
3:L:2572:TYR:CE1	3:L:2788:SER:HB2	2.37	0.60
3:L:2587:GLN:N	3:L:2777:HIS:O	2.31	0.60
1:A:346:MET:N	1:A:398:CYS:SG	2.75	0.60
2:B:464:ALA:HB1	2:B:473:LEU:HB3	1.84	0.60
3:C:3134:ALA:O	3:C:3138:ILE:HG12	2.02	0.60
1:J:106:GLN:CB	1:J:115:ARG:HE	2.14	0.60
2:K:441:SER:OG	2:K:445:ALA:N	2.28	0.60
3:L:1897:ASN:OD1	3:L:1898:GLN:NE2	2.33	0.60
3:L:2589:TYR:CE1	3:L:2777:HIS:HB2	2.37	0.60
3:L:2950:LYS:NZ	3:L:2984:GLY:O	2.35	0.60
1:A:168:LEU:HB2	1:A:202:LEU:HB2	1.82	0.60
3:C:345:PHE:CE2	3:C:366:TYR:HA	2.36	0.60
3:C:3153:SER:OG	3:C:3154:GLN:N	2.35	0.60
3:C:3269:ARG:NE	3:C:3272:TRP:HZ3	2.00	0.60
1:J:42:VAL:HB	1:J:87:PHE:HD1	1.66	0.60
3:L:2147:ALA:O	3:L:2150:VAL:N	2.35	0.60
3:L:3486:GLU:O	3:L:3489:SER:N	2.24	0.60
3:C:1384:PHE:O	3:C:1386:ILE:N	2.35	0.59
3:C:3815:LEU:O	3:C:3819:THR:HG23	2.02	0.59
3:L:128:LEU:HD11	3:L:156:PHE:CE2	2.32	0.59
3:L:409:GLN:O	3:L:412:SER:OG	2.16	0.59
3:L:2945:SER:HB3	3:L:2947:ILE:HG12	1.84	0.59
1:A:205:LEU:HD12	1:A:206:LYS:N	2.17	0.59
1:A:363:ARG:HH22	2:B:269:GLN:HE22	1.49	0.59
3:C:1367:HIS:O	3:C:1370:ARG:HG2	2.02	0.59
3:L:1046:PRO:HD2	3:L:1047:GLN:H	1.65	0.59
3:L:1911:LEU:O	3:L:1914:THR:OG1	2.10	0.59
3:L:3153:SER:OG	3:L:3154:GLN:N	2.35	0.59
7:O:20:LEU:HD11	7:O:34:ILE:HD11	1.84	0.59
3:C:715:ALA:O	3:C:718:MET:HG3	2.02	0.59
3:C:1124:ILE:O	3:C:1127:CYS:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2572:TYR:CE1	3:C:2788:SER:HB2	2.37	0.59
3:C:3681:LYS:HG2	3:C:3724:GLU:HA	1.83	0.59
1:J:346:MET:N	1:J:398:CYS:SG	2.75	0.59
3:L:330:ASN:OD1	3:L:331:ALA:N	2.32	0.59
3:L:3819:THR:HG21	3:L:3886:ALA:HB2	1.84	0.59
1:A:461:LYS:O	1:A:465:ILE:HD12	2.02	0.59
3:C:3723:ASP:HB2	3:C:3741:ARG:HH11	1.66	0.59
1:J:43:ASP:HB2	1:J:170:THR:HG22	1.83	0.59
2:K:251:LEU:N	2:K:259:ILE:O	2.35	0.59
3:L:231:LEU:HB3	3:L:278:HIS:CD2	2.38	0.59
3:L:715:ALA:O	3:L:718:MET:HG3	2.03	0.59
3:L:1916:ILE:HD12	3:L:1919:CYS:HB2	1.83	0.59
3:L:2246:LYS:HA	3:L:2249:LEU:HD12	1.83	0.59
1:A:43:ASP:HB2	1:A:170:THR:HG22	1.83	0.59
3:C:2165:LEU:HD11	3:C:2193:ILE:HG23	1.84	0.59
3:C:2531:LEU:HD21	3:C:2545:LEU:HD21	1.85	0.59
3:C:2999:LEU:HB3	3:C:3043:TYR:CD2	2.38	0.59
3:C:3061:LEU:HD23	3:C:3089:LEU:HD13	1.84	0.59
3:C:3582:GLU:N	3:C:3582:GLU:OE1	2.34	0.59
3:C:3747:GLU:O	3:C:3748:HIS:ND1	2.35	0.59
5:D:15:DT:C2	5:D:16:DG:C8	2.91	0.59
3:L:1764:GLU:O	3:L:1768:ARG:NH2	2.25	0.59
3:L:3134:ALA:O	3:L:3138:ILE:HG12	2.02	0.59
3:L:3269:ARG:NE	3:L:3272:TRP:HZ3	2.00	0.59
3:L:3815:LEU:O	3:L:3819:THR:HG23	2.02	0.59
5:M:15:DT:C2	5:M:16:DG:C8	2.91	0.59
1:A:400:TYR:CE2	1:A:402:PRO:HB3	2.38	0.59
3:C:2164:TRP:O	3:C:2167:PRO:HD2	2.03	0.59
3:C:2251:ILE:HG21	3:C:2280:VAL:HG21	1.83	0.59
3:C:3425:ARG:NH2	3:C:3467:ARG:HH11	2.00	0.59
3:C:3923:ARG:HH11	3:C:3928:PHE:HE1	1.49	0.59
3:L:2562:LEU:HD13	3:L:2812:LEU:HD22	1.84	0.59
3:L:4040:PRO:HA	3:L:4043:LYS:HG2	1.85	0.59
3:C:1804:MET:O	3:C:1811:ARG:NH2	2.36	0.59
3:C:1963:GLN:HG3	3:C:2125:TRP:HZ3	1.68	0.59
3:C:2589:TYR:CE1	3:C:2777:HIS:HB2	2.37	0.59
7:F:101:LEU:HD12	8:H:113:SER:HA	1.85	0.59
3:L:1278:ALA:HB1	3:L:1358:LEU:HD21	1.83	0.59
9:Y:674:PRO:HB2	9:Y:677:ASP:HB3	1.83	0.59
3:C:1333:SER:O	3:C:1336:THR:OG1	2.19	0.59
3:C:2841:ASN:HD21	3:C:2872:ASP:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3161:LEU:HD11	3:C:3190:LEU:HD11	1.85	0.59
1:J:95:ASN:OD1	1:J:98:ASN:N	2.36	0.59
2:K:237:PHE:HB2	2:K:488:GLN:HE22	1.68	0.59
3:L:3180:ASP:HA	3:L:3183:ILE:HG22	1.85	0.59
3:L:3425:ARG:NH2	3:L:3467:ARG:HH11	2.00	0.59
1:A:95:ASN:OD1	1:A:98:ASN:N	2.36	0.59
3:C:3180:ASP:HA	3:C:3183:ILE:HG22	1.85	0.59
3:C:3551:ASN:O	3:C:3555:VAL:HG23	2.03	0.59
1:J:400:TYR:CE2	1:J:402:PRO:HB3	2.37	0.59
3:L:24:ARG:HH21	3:L:75:SER:HB2	1.67	0.59
3:L:297:LEU:HD12	3:L:316:LEU:HD22	1.84	0.59
3:L:782:ARG:NH2	3:L:3166:ASN:O	2.36	0.59
3:L:1017:ILE:HD13	3:L:1029:CYS:HB3	1.84	0.59
3:L:1804:MET:O	3:L:1811:ARG:NH2	2.36	0.59
3:L:3923:ARG:HH11	3:L:3928:PHE:HE1	1.49	0.59
1:A:106:GLN:CB	1:A:115:ARG:HE	2.14	0.59
3:C:447:PRO:HG3	3:C:527:TYR:CE2	2.37	0.59
3:C:573:LEU:HD11	3:C:649:PHE:HA	1.85	0.59
3:C:1237:ALA:HA	3:C:1292:LYS:HD2	1.85	0.59
7:G:134:ILE:HG22	7:G:138:GLN:OE1	2.03	0.59
1:J:75:ILE:HG21	2:K:316:TYR:CE1	2.38	0.59
1:J:345:LEU:HD21	1:J:400:TYR:HD1	1.68	0.59
3:L:1384:PHE:O	3:L:1386:ILE:N	2.35	0.59
3:L:2531:LEU:HD21	3:L:2545:LEU:HD21	1.85	0.59
3:L:3228:SER:HB2	3:L:3232:ARG:HH12	1.66	0.59
5:M:14:DA:C2	5:M:15:DT:C2	2.91	0.59
9:Y:656:SER:HB3	9:Y:685:PHE:HA	1.85	0.59
3:C:231:LEU:HB3	3:C:278:HIS:CD2	2.38	0.58
3:C:477:ASN:O	3:C:480:SER:OG	2.16	0.58
3:C:1483:LEU:O	3:C:1487:VAL:HG12	2.03	0.58
3:C:1991:PRO:HD3	3:C:2734:ARG:HE	1.67	0.58
3:C:2945:SER:HB3	3:C:2947:ILE:HG12	1.84	0.58
3:C:3819:THR:HG21	3:C:3886:ALA:HB2	1.84	0.58
1:J:115:ARG:HB2	1:J:115:ARG:CZ	2.33	0.58
2:K:342:VAL:HG22	2:K:393:VAL:HG22	1.84	0.58
2:K:464:ALA:HB1	2:K:473:LEU:HB3	1.84	0.58
3:L:573:LEU:HD11	3:L:649:PHE:HA	1.85	0.58
3:L:738:HIS:O	3:L:741:ILE:N	2.35	0.58
3:L:3747:GLU:O	3:L:3748:HIS:ND1	2.35	0.58
9:X:656:SER:HB3	9:X:685:PHE:HA	1.85	0.58
2:B:509:GLN:OE1	2:B:511:HIS:NE2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1017:ILE:HD13	3:C:1029:CYS:HB3	1.84	0.58
3:C:2246:LYS:HA	3:C:2249:LEU:HD12	1.83	0.58
3:C:3879:PRO:HB2	3:C:3882:LEU:HD21	1.84	0.58
3:L:484:HIS:NE2	3:L:488:ILE:HD11	2.18	0.58
3:L:1367:HIS:O	3:L:1370:ARG:HG2	2.02	0.58
3:L:2164:TRP:O	3:L:2167:PRO:HD2	2.03	0.58
3:L:3879:PRO:HB2	3:L:3882:LEU:HD21	1.83	0.58
5:M:29:DA:C4	5:M:30:DC:C5	2.91	0.58
1:A:115:ARG:HB2	1:A:115:ARG:CZ	2.34	0.58
5:D:29:DA:C4	5:D:30:DC:C5	2.91	0.58
2:K:531:SER:HA	2:K:534:LYS:NZ	2.18	0.58
3:L:1184:ARG:HH22	3:L:1265:GLU:HB3	1.69	0.58
1:A:42:VAL:HB	1:A:87:PHE:CD1	2.38	0.58
2:B:531:SER:HA	2:B:534:LYS:NZ	2.18	0.58
3:C:738:HIS:O	3:C:741:ILE:N	2.35	0.58
3:C:2131:GLY:C	3:C:2134:GLY:H	2.07	0.58
3:C:3579:SER:HA	3:C:3736:LYS:NZ	2.18	0.58
3:L:477:ASN:OD1	3:L:478:CYS:N	2.36	0.58
3:L:2131:GLY:C	3:L:2134:GLY:H	2.07	0.58
3:L:2999:LEU:HB3	3:L:3043:TYR:CD2	2.38	0.58
3:L:3509:ASP:OD1	3:L:3510:GLN:N	2.36	0.58
3:L:3551:ASN:O	3:L:3555:VAL:HG23	2.03	0.58
7:O:134:ILE:HG22	7:O:138:GLN:OE1	2.03	0.58
9:Y:696:ASP:OD1	9:Y:697:THR:N	2.36	0.58
3:C:479:ILE:O	3:C:482:VAL:HG12	2.03	0.58
3:C:767:GLU:HG3	3:C:846:ILE:HG13	1.85	0.58
3:C:3509:ASP:OD1	3:C:3510:GLN:N	2.36	0.58
3:C:3918:LEU:O	3:C:3920:ILE:N	2.36	0.58
3:L:1483:LEU:O	3:L:1487:VAL:HG12	2.03	0.58
3:L:2216:LEU:HD11	3:L:2249:LEU:HD22	1.86	0.58
3:L:2578:GLU:O	3:L:2784:GLN:NE2	2.37	0.58
2:B:342:VAL:HG22	2:B:393:VAL:HG22	1.85	0.58
3:C:484:HIS:NE2	3:C:488:ILE:HD11	2.18	0.58
3:C:1487:VAL:O	3:C:1491:ILE:N	2.29	0.58
3:C:1933:LEU:O	3:C:1937:ARG:HG2	2.04	0.58
3:C:2581:LEU:HD12	3:C:2783:ILE:HG13	1.83	0.58
3:L:1268:ASN:HD21	3:L:1344:PHE:HA	1.66	0.58
3:L:1297:PHE:HD1	3:L:1301:ILE:HB	1.69	0.58
5:M:22:DA:H1'	5:M:23:DG:C8	2.39	0.58
6:N:8:DC:N3	6:N:9:DT:N3	2.51	0.58
1:A:75:ILE:HG21	2:B:316:TYR:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ILE:HD12	2:B:540:ILE:HG21	1.86	0.58
2:B:251:LEU:N	2:B:259:ILE:O	2.35	0.58
3:C:477:ASN:OD1	3:C:478:CYS:N	2.36	0.58
3:C:782:ARG:NH2	3:C:3166:ASN:O	2.36	0.58
6:E:8:DC:N3	6:E:9:DT:N3	2.51	0.58
7:F:134:ILE:HG13	7:G:134:ILE:CG1	2.32	0.58
7:G:134:ILE:CG2	7:G:138:GLN:NE2	2.56	0.58
3:L:1124:ILE:O	3:L:1127:CYS:N	2.36	0.58
3:L:1963:GLN:HG3	3:L:2125:TRP:HZ3	1.68	0.58
3:L:2185:MET:HE3	3:L:2189:ILE:HD11	1.86	0.58
3:L:3161:LEU:HD11	3:L:3190:LEU:HD11	1.85	0.58
3:L:3496:ILE:HD11	3:L:3528:ALA:HB1	1.86	0.58
3:L:3579:SER:HA	3:L:3736:LYS:NZ	2.18	0.58
3:C:364:ARG:HG2	3:C:364:ARG:HH11	1.69	0.58
3:C:1184:ARG:HH22	3:C:1265:GLU:HB3	1.68	0.58
3:C:1323:SER:OG	3:C:1326:GLU:OE1	2.17	0.58
5:D:14:DA:C2	5:D:15:DT:C2	2.91	0.58
9:X:696:ASP:OD1	9:X:697:THR:N	2.36	0.58
1:A:345:LEU:HD21	1:A:400:TYR:HD1	1.68	0.58
2:B:131:HIS:CD2	8:I:297:GLY:HA2	2.39	0.58
3:C:75:SER:OG	3:C:77:GLU:OE1	2.17	0.58
3:C:2578:GLU:O	3:C:2784:GLN:NE2	2.36	0.58
3:C:2587:GLN:N	3:C:2777:HIS:O	2.31	0.58
1:J:42:VAL:HB	1:J:87:PHE:CD1	2.38	0.58
1:J:376:ILE:HD12	2:K:540:ILE:HG21	1.86	0.58
1:J:419:GLU:HG2	1:J:428:THR:OG1	2.04	0.58
1:J:439:PHE:HE2	2:K:485:PRO:HD2	1.69	0.58
3:L:479:ILE:O	3:L:482:VAL:HG12	2.03	0.58
3:L:1098:GLN:CB	3:L:1152:ARG:HE	2.17	0.58
3:L:4055:ASN:O	3:L:4058:VAL:N	2.37	0.58
7:O:134:ILE:CG1	7:P:134:ILE:HG13	2.32	0.58
3:C:286:LEU:HD12	3:C:319:PHE:CE1	2.39	0.58
3:C:3710:LYS:NZ	3:C:3712:LEU:HD22	2.19	0.58
7:G:31:GLY:HA3	7:G:48:SER:HA	1.86	0.58
2:K:547:GLN:HG3	2:K:548:VAL:N	2.18	0.58
3:L:333:MET:N	3:L:333:MET:SD	2.77	0.58
3:L:1237:ALA:HA	3:L:1292:LYS:HD2	1.85	0.58
3:L:1708:GLU:OE1	3:L:1708:GLU:N	2.30	0.58
3:L:3582:GLU:OE1	3:L:3582:GLU:N	2.34	0.58
3:L:3710:LYS:NZ	3:L:3712:LEU:HD22	2.19	0.58
1:A:439:PHE:HD2	2:B:484:ASN:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:482:ILE:HD11	2:B:515:MET:CG	2.34	0.57
3:C:1076:LEU:O	3:C:1079:SER:OG	2.21	0.57
3:C:3527:GLN:HG3	3:C:3700:GLU:OE1	2.04	0.57
3:C:3862:ALA:HB1	3:C:3867:THR:HG21	1.86	0.57
2:K:242:ARG:NH1	5:M:7:DA:O5'	2.37	0.57
3:L:2754:GLU:HA	3:L:2757:ILE:HG22	1.85	0.57
3:L:3467:ARG:NH2	3:L:3471:ILE:HG13	2.19	0.57
6:N:10:DA:N7	6:N:11:DC:N4	2.52	0.57
3:C:2972:TYR:HE1	3:C:2994:TRP:HA	1.70	0.57
3:L:166:ILE:HG22	3:L:170:VAL:HG13	1.86	0.57
3:L:714:VAL:HG11	3:L:732:PHE:CE2	2.38	0.57
3:L:1970:LYS:CD	3:L:1971:PRO:HD2	2.30	0.57
3:L:2841:ASN:HD21	3:L:2872:ASP:HB2	1.68	0.57
1:A:176:HIS:CG	1:A:182:LYS:HD3	2.40	0.57
2:B:237:PHE:HB2	2:B:488:GLN:HE22	1.68	0.57
2:B:404:GLN:HG3	2:B:423:GLN:OE1	2.04	0.57
3:C:1098:GLN:CB	3:C:1152:ARG:HE	2.17	0.57
3:C:2105:HIS:CG	3:C:2106:ARG:HH12	2.22	0.57
3:C:2754:GLU:HA	3:C:2757:ILE:HG22	1.84	0.57
3:C:3784:ARG:HG3	3:C:3784:ARG:NH1	2.20	0.57
3:C:4126:PRO:HD2	3:C:4127:TRP:CE3	2.40	0.57
6:E:10:DA:H2'	6:E:11:DC:C6	2.40	0.57
3:C:1836:LEU:HD11	3:C:1883:ARG:HH21	1.69	0.57
3:C:2216:LEU:HD11	3:C:2249:LEU:HD22	1.86	0.57
3:C:2311:ARG:HD3	3:C:2312:TYR:CD1	2.39	0.57
3:C:4055:ASN:O	3:C:4058:VAL:N	2.37	0.57
3:L:286:LEU:HD12	3:L:319:PHE:CE1	2.39	0.57
3:L:767:GLU:HG3	3:L:846:ILE:HG13	1.85	0.57
3:L:1076:LEU:O	3:L:1079:SER:OG	2.21	0.57
3:L:2311:ARG:HD3	3:L:2312:TYR:CD1	2.39	0.57
2:B:227:PHE:O	2:B:230:SER:OG	2.16	0.57
2:B:242:ARG:NH1	5:D:7:DA:O5'	2.37	0.57
3:C:1479:VAL:HG21	3:C:1521:PHE:CE1	2.40	0.57
3:C:2280:VAL:HA	3:C:2283:ASN:ND2	2.18	0.57
3:C:3508:LYS:HG3	3:C:3509:ASP:H	1.70	0.57
3:C:4040:PRO:HA	3:C:4043:LYS:HG2	1.85	0.57
5:D:22:DA:H1'	5:D:23:DG:C8	2.39	0.57
1:J:317:LYS:HZ3	1:J:330:GLU:CD	2.08	0.57
2:K:482:ILE:HD11	2:K:515:MET:CG	2.34	0.57
3:L:708:VAL:HA	3:L:740:ILE:HD11	1.87	0.57
3:L:1100:VAL:HA	3:L:1103:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2977:ASN:HA	7:P:272:ARG:HH12	1.69	0.57
1:A:439:PHE:HE2	2:B:485:PRO:HD2	1.69	0.57
1:A:488:ARG:HD2	1:A:501:GLU:HB3	1.86	0.57
1:J:48:MET:HB3	1:J:59:PRO:HB2	1.86	0.57
1:J:488:ARG:HD2	1:J:501:GLU:HB3	1.86	0.57
3:L:758:LEU:HD13	3:L:976:VAL:HG21	1.86	0.57
3:L:2422:GLN:HE22	3:L:2426:HIS:CE1	2.23	0.57
3:L:3006:ALA:HA	3:L:3008:TRP:NE1	2.19	0.57
2:B:264:TYR:O	2:B:363:LYS:N	2.20	0.57
3:C:128:LEU:HD11	3:C:156:PHE:CE2	2.32	0.57
3:C:3006:ALA:HA	3:C:3008:TRP:NE1	2.19	0.57
7:G:116:VAL:HG12	7:G:117:GLU:H	1.70	0.57
1:J:203:MET:N	1:J:203:MET:SD	2.69	0.57
2:K:404:GLN:HG3	2:K:423:GLN:OE1	2.04	0.57
3:L:1933:LEU:O	3:L:1937:ARG:HG2	2.04	0.57
3:L:3483:MET:O	3:L:3488:SER:OG	2.14	0.57
5:M:28:DC:C2	5:M:29:DA:C8	2.93	0.57
1:A:48:MET:HB3	1:A:59:PRO:HB2	1.86	0.57
1:A:126:GLN:O	1:A:130:ARG:HG3	2.05	0.57
3:C:1297:PHE:HD1	3:C:1301:ILE:HB	1.69	0.57
3:C:2510:LEU:O	3:C:2518:GLN:NE2	2.38	0.57
1:J:176:HIS:CG	1:J:182:LYS:HD3	2.40	0.57
3:L:1836:LEU:HD11	3:L:1883:ARG:HH21	1.69	0.57
3:L:2851:PHE:CG	3:L:2853:PRO:HD2	2.40	0.57
1:A:263:LEU:HD12	1:A:267:ILE:HG21	1.87	0.57
2:B:404:GLN:HG2	2:B:421:TYR:OH	2.05	0.57
2:B:547:GLN:HG3	2:B:548:VAL:N	2.18	0.57
3:C:257:ARG:NH1	3:C:257:ARG:HB2	2.19	0.57
3:C:2851:PHE:CG	3:C:2853:PRO:HD2	2.40	0.57
6:E:10:DA:N7	6:E:11:DC:N4	2.52	0.57
2:K:106:ASP:OD1	2:K:107:PHE:N	2.38	0.57
3:L:2840:PHE:HA	3:L:2843:PHE:HD2	1.70	0.57
3:L:2898:LEU:HD22	3:L:3972:LEU:HD23	1.87	0.57
3:L:3469:LEU:HD13	3:L:3472:ILE:HD12	1.86	0.57
3:L:3784:ARG:HG3	3:L:3784:ARG:NH1	2.20	0.57
3:L:4126:PRO:HD2	3:L:4127:TRP:CE3	2.40	0.57
3:C:493:LYS:NZ	3:C:495:VAL:HG22	2.20	0.57
3:C:647:TYR:O	3:C:650:SER:OG	2.20	0.57
3:C:3049:LEU:HD22	3:C:3061:LEU:HD21	1.86	0.57
3:C:3699:LEU:HB3	3:C:3719:ILE:HD12	1.87	0.57
3:C:3872:ARG:NH1	3:C:4114:PRO:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:28:DC:C2	5:D:29:DA:C8	2.93	0.57
3:L:257:ARG:NH1	3:L:257:ARG:HB2	2.19	0.57
3:L:1172:LEU:O	3:L:1176:CYS:N	2.38	0.57
3:L:1980:ASN:OD1	3:L:1981:LEU:N	2.37	0.57
3:L:3862:ALA:HB1	3:L:3867:THR:HG21	1.86	0.57
3:L:3994:ASP:HB2	3:L:3997:LEU:HD12	1.87	0.57
1:A:113:ALA:O	1:A:115:ARG:N	2.38	0.56
1:A:173:ASP:OD2	1:A:212:ASP:N	2.38	0.56
1:A:419:GLU:HG2	1:A:428:THR:OG1	2.04	0.56
3:C:1205:ASN:HB3	3:C:1275:THR:HA	1.87	0.56
3:C:2950:LYS:NZ	3:C:2984:GLY:O	2.35	0.56
3:C:3966:GLN:HG2	3:C:4128:MET:HB2	1.87	0.56
5:D:7:DA:H2'	5:D:8:DA:H8	1.70	0.56
1:J:263:LEU:HD12	1:J:267:ILE:HG21	1.87	0.56
1:J:439:PHE:HD2	2:K:484:ASN:HA	1.69	0.56
3:L:1601:LEU:O	3:L:1604:SER:OG	2.18	0.56
3:L:3966:GLN:HG2	3:L:4128:MET:HB2	1.87	0.56
1:A:205:LEU:HD12	1:A:206:LYS:H	1.70	0.56
3:C:798:GLY:HA2	3:C:801:LYS:HB2	1.87	0.56
3:C:1172:LEU:O	3:C:1176:CYS:N	2.38	0.56
3:C:2422:GLN:HE22	3:C:2426:HIS:CE1	2.23	0.56
3:C:2957:LEU:HA	3:C:2960:GLU:HG2	1.87	0.56
3:C:3469:LEU:HD13	3:C:3472:ILE:HD12	1.86	0.56
2:K:404:GLN:HG2	2:K:421:TYR:OH	2.05	0.56
3:L:798:GLY:HA2	3:L:801:LYS:HB2	1.87	0.56
3:L:3031:TRP:CD1	3:L:3031:TRP:N	2.73	0.56
9:Y:722:LYS:HZ1	9:Y:741:ARG:HG3	1.69	0.56
2:B:106:ASP:OD1	2:B:107:PHE:N	2.38	0.56
3:C:95:LYS:HD3	3:C:834:LEU:HD12	1.87	0.56
3:C:166:ILE:HG22	3:C:170:VAL:HG13	1.86	0.56
3:C:333:MET:N	3:C:333:MET:SD	2.78	0.56
3:C:374:LYS:HD2	3:C:423:TYR:HB3	1.86	0.56
3:C:1046:PRO:HD2	3:C:1047:GLN:N	2.20	0.56
3:C:1764:GLU:O	3:C:1768:ARG:NH2	2.25	0.56
3:C:1911:LEU:O	3:C:1914:THR:OG1	2.10	0.56
3:C:1970:LYS:CD	3:C:1971:PRO:HD2	2.30	0.56
3:C:3467:ARG:NH2	3:C:3471:ILE:HG13	2.19	0.56
3:C:3496:ILE:HD11	3:C:3528:ALA:HB1	1.86	0.56
3:C:3887:PHE:O	3:C:3890:MET:N	2.39	0.56
1:J:113:ALA:O	1:J:115:ARG:N	2.38	0.56
3:L:75:SER:OG	3:L:77:GLU:OE1	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:185:HIS:NE2	3:L:187:SER:OG	2.38	0.56
3:L:623:PHE:O	3:L:627:VAL:HG23	2.05	0.56
3:L:1278:ALA:O	3:L:1282:LEU:N	2.35	0.56
3:L:2564:GLU:O	3:L:2567:SER:OG	2.16	0.56
3:L:2957:LEU:HA	3:L:2960:GLU:HG2	1.87	0.56
3:L:3335:ARG:NH1	3:L:3422:GLN:OE1	2.38	0.56
3:L:3527:GLN:HG3	3:L:3700:GLU:OE1	2.04	0.56
3:L:3699:LEU:HB3	3:L:3719:ILE:HD12	1.87	0.56
1:A:203:MET:N	1:A:203:MET:SD	2.69	0.56
3:C:73:LEU:HG	3:C:117:LYS:HG2	1.88	0.56
3:C:623:PHE:O	3:C:627:VAL:HG23	2.05	0.56
6:E:27:DT:H2''	6:E:28:DA:C8	2.41	0.56
1:J:380:THR:O	1:J:383:SER:OG	2.20	0.56
1:J:419:GLU:HG3	1:J:427:VAL:HB	1.87	0.56
3:L:493:LYS:NZ	3:L:495:VAL:HG22	2.20	0.56
3:L:2972:TYR:HE1	3:L:2994:TRP:HA	1.70	0.56
3:L:3022:GLU:OE1	3:L:3022:GLU:N	2.35	0.56
3:L:3805:TRP:CD2	10:L:4201:ADP:C2	2.94	0.56
2:B:13:CYS:HB3	2:B:134:ILE:HA	1.88	0.56
3:C:758:LEU:HD13	3:C:976:VAL:HG21	1.86	0.56
3:C:1072:ALA:O	3:C:1075:ARG:HG2	2.06	0.56
1:J:126:GLN:O	1:J:130:ARG:HG3	2.05	0.56
3:L:1205:ASN:HB3	3:L:1275:THR:HA	1.87	0.56
3:L:1479:VAL:HG21	3:L:1521:PHE:CE1	2.40	0.56
3:L:1529:VAL:HG11	3:L:1581:GLU:OE1	2.05	0.56
3:L:1962:TYR:HE2	3:L:2103:HIS:HD2	1.53	0.56
3:L:2105:HIS:CG	3:L:2106:ARG:HH12	2.22	0.56
3:L:3183:ILE:CD1	3:L:3238:MET:HG2	2.36	0.56
3:L:3425:ARG:NH1	3:L:3467:ARG:HH11	2.04	0.56
5:M:7:DA:H2'	5:M:8:DA:H8	1.70	0.56
7:O:116:VAL:HG12	7:O:117:GLU:H	1.70	0.56
1:A:77:SER:HA	1:A:248:ALA:O	2.06	0.56
1:A:148:TRP:CE3	1:A:189:LYS:HE3	2.41	0.56
1:A:331:LYS:O	1:A:334:THR:HG22	2.06	0.56
2:B:151:ILE:HG23	2:B:215:LEU:HD23	1.87	0.56
2:B:247:TRP:HZ2	2:B:338:LYS:HG3	1.70	0.56
3:C:1100:VAL:HA	3:C:1103:ALA:HB3	1.86	0.56
3:C:1865:THR:OG1	3:C:1866:GLN:OE1	2.24	0.56
3:C:3718:ARG:H	3:C:3743:HIS:HB2	1.71	0.56
3:C:1946:ASN:HD22	3:C:2096:PRO:HG2	1.71	0.56
3:C:2898:LEU:HD22	3:C:3972:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3183:ILE:CD1	3:C:3238:MET:HG2	2.36	0.56
3:C:3452:LYS:O	3:C:3455:LYS:NZ	2.33	0.56
1:J:89:GLY:N	1:J:101:ASN:O	2.38	0.56
2:K:247:TRP:HZ2	2:K:338:LYS:HG3	1.70	0.56
9:Y:669:GLY:O	9:Y:673:GLN:HG3	2.06	0.56
1:A:89:GLY:N	1:A:101:ASN:O	2.38	0.56
3:C:185:HIS:NE2	3:C:187:SER:OG	2.39	0.56
3:C:1962:TYR:HE2	3:C:2103:HIS:HD2	1.53	0.56
3:C:2570:PRO:HG3	3:L:899:ARG:O	2.06	0.56
3:C:3805:TRP:CD2	10:C:4201:ADP:C2	2.94	0.56
3:L:374:LYS:HD2	3:L:423:TYR:HB3	1.86	0.56
3:L:1928:ALA:HB3	3:L:1931:ASN:HB2	1.87	0.56
3:L:1946:ASN:HD22	3:L:2096:PRO:HG2	1.71	0.56
6:N:10:DA:H2'	6:N:11:DC:C6	2.40	0.56
9:Y:703:GLY:HA2	9:Y:723:PRO:HG3	1.88	0.56
3:L:364:ARG:HG2	3:L:364:ARG:HH11	1.69	0.56
3:L:410:MET:HG2	3:L:442:GLN:NE2	2.21	0.56
3:L:1388:ASP:O	3:L:1392:MET:HG3	2.06	0.56
3:L:1770:GLN:OE1	3:L:1770:GLN:N	2.33	0.56
3:L:3913:ILE:HB	3:L:3984:MET:SD	2.46	0.56
3:C:708:VAL:HA	3:C:740:ILE:HD11	1.87	0.56
3:C:1278:ALA:O	3:C:1282:LEU:N	2.35	0.56
3:C:1928:ALA:HB3	3:C:1931:ASN:HB2	1.87	0.56
3:C:2894:GLU:HG3	3:C:3973:PRO:CG	2.36	0.56
5:D:7:DA:H2'	5:D:8:DA:C8	2.41	0.56
8:H:18:LEU:HD13	8:H:96:SER:HA	1.87	0.56
1:J:71:TYR:OH	1:J:115:ARG:HD2	2.06	0.56
3:L:1046:PRO:HD2	3:L:1047:GLN:N	2.20	0.56
3:L:1132:ASP:O	3:L:1135:CYS:HB3	2.06	0.56
3:L:1755:SER:HB3	3:L:1758:LEU:HB2	1.88	0.56
3:L:2464:HIS:HD1	3:L:2466:SER:H	1.54	0.56
3:L:3918:LEU:O	3:L:3920:ILE:HG13	2.06	0.56
1:A:419:GLU:HG3	1:A:427:VAL:HB	1.87	0.55
3:C:714:VAL:HG11	3:C:732:PHE:CE2	2.38	0.55
3:C:1529:VAL:HG11	3:C:1581:GLU:OE1	2.05	0.55
3:C:1980:ASN:OD1	3:C:1981:LEU:N	2.37	0.55
3:C:2205:VAL:H	3:C:2208:ASP:HB3	1.72	0.55
3:C:3123:GLN:O	3:C:3127:THR:HG23	2.06	0.55
3:C:3425:ARG:NH1	3:C:3467:ARG:HH11	2.04	0.55
2:K:81:ARG:NH2	2:K:85:LEU:O	2.39	0.55
3:L:858:MET:O	3:L:861:SER:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2512:ASP:OD1	3:L:2513:GLU:N	2.39	0.55
3:L:3828:TYR:OH	3:L:3878:VAL:HG13	2.06	0.55
3:L:3918:LEU:O	3:L:3920:ILE:N	2.36	0.55
3:L:3925:LEU:HD21	3:L:3962:ARG:CZ	2.37	0.55
3:C:2155:GLU:HA	3:C:2158:ARG:HG3	1.89	0.55
3:C:3335:ARG:NH1	3:C:3422:GLN:OE1	2.38	0.55
3:L:73:LEU:HG	3:L:117:LYS:HG2	1.88	0.55
3:L:2280:VAL:HA	3:L:2283:ASN:ND2	2.18	0.55
3:L:3705:TYR:HE1	3:L:3716:HIS:CD2	2.25	0.55
9:Y:663:GLU:HG2	9:Y:698:TYR:HD1	1.72	0.55
3:C:858:MET:O	3:C:861:SER:N	2.39	0.55
3:C:1184:ARG:NH2	3:C:1265:GLU:HB3	2.22	0.55
3:C:1708:GLU:OE1	3:C:1708:GLU:N	2.30	0.55
3:C:3190:LEU:HD12	3:C:3231:ILE:HD12	1.88	0.55
1:J:148:TRP:CE3	1:J:189:LYS:HE3	2.41	0.55
3:L:678:LYS:NZ	3:L:735:SER:O	2.31	0.55
3:L:1865:THR:OG1	3:L:1866:GLN:OE1	2.24	0.55
3:L:1967:PHE:CD2	3:L:2122:LEU:HG	2.41	0.55
3:L:2155:GLU:HA	3:L:2158:ARG:HG3	1.89	0.55
3:L:2510:LEU:O	3:L:2518:GLN:NE2	2.38	0.55
3:C:1770:GLN:OE1	3:C:1770:GLN:N	2.33	0.55
3:C:3828:TYR:OH	3:C:3878:VAL:HG13	2.06	0.55
1:J:77:SER:HA	1:J:248:ALA:O	2.06	0.55
3:L:962:TYR:HA	3:L:965:THR:HG22	1.87	0.55
3:L:1072:ALA:O	3:L:1075:ARG:HG2	2.06	0.55
3:L:3049:LEU:HD22	3:L:3061:LEU:HD21	1.86	0.55
7:O:31:GLY:HA3	7:O:48:SER:HA	1.87	0.55
3:C:1356:TRP:CD1	3:C:1359:LEU:HD23	2.41	0.55
3:C:1458:LEU:O	3:C:1462:GLY:N	2.40	0.55
3:C:1681:ASP:HB3	3:C:1684:LEU:HD22	1.89	0.55
3:C:3751:LEU:HD12	3:C:3805:TRP:CZ3	2.41	0.55
3:C:3994:ASP:HB2	3:C:3997:LEU:HD12	1.87	0.55
3:C:4126:PRO:HD2	3:C:4127:TRP:CZ3	2.42	0.55
1:J:35:ARG:HD3	1:J:80:ARG:CG	2.37	0.55
3:L:95:LYS:HD3	3:L:834:LEU:HD12	1.87	0.55
3:L:532:ARG:HH11	3:L:532:ARG:HG3	1.71	0.55
3:L:1356:TRP:CD1	3:L:1359:LEU:HD23	2.42	0.55
3:L:1766:LEU:HD21	3:L:1778:PHE:CD1	2.42	0.55
3:L:1834:ASP:OD1	3:L:1837:ARG:NH2	2.27	0.55
3:L:2971:GLN:O	3:L:2974:GLU:HG2	2.07	0.55
3:L:3123:GLN:O	3:L:3127:THR:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3446:VAL:HG11	3:L:3471:ILE:HD13	1.88	0.55
3:L:3508:LYS:HG3	3:L:3509:ASP:H	1.70	0.55
3:L:3751:LEU:HD12	3:L:3805:TRP:CZ3	2.41	0.55
3:L:3872:ARG:NH1	3:L:4114:PRO:HB3	2.20	0.55
5:M:7:DA:H2'	5:M:8:DA:C8	2.41	0.55
9:X:663:GLU:HG2	9:X:698:TYR:HD1	1.72	0.55
1:A:317:LYS:HZ3	1:A:330:GLU:CD	2.10	0.55
3:C:410:MET:HG2	3:C:442:GLN:NE2	2.21	0.55
3:C:962:TYR:HA	3:C:965:THR:HG22	1.88	0.55
3:C:1388:ASP:O	3:C:1392:MET:HG3	2.06	0.55
3:C:1411:TYR:CE1	3:C:1414:ILE:HD13	2.42	0.55
3:C:3925:LEU:HD21	3:C:3962:ARG:CZ	2.36	0.55
2:K:13:CYS:HB3	2:K:134:ILE:HA	1.87	0.55
2:K:130:ARG:NH2	2:K:157:CYS:O	2.39	0.55
3:L:2408:MET:N	3:L:2408:MET:SD	2.79	0.55
3:L:3718:ARG:H	3:L:3743:HIS:HB2	1.71	0.55
3:C:3022:GLU:OE1	3:C:3022:GLU:N	2.35	0.55
1:J:32:TYR:CE2	1:J:254:ARG:HD3	2.41	0.55
2:K:56:LEU:HD13	2:K:94:ILE:HD11	1.89	0.55
3:L:647:TYR:O	3:L:650:SER:OG	2.20	0.55
3:L:913:ARG:CZ	3:L:2803:ILE:HG21	2.37	0.55
3:L:1184:ARG:NH2	3:L:1265:GLU:HB3	2.22	0.55
3:L:1696:LEU:HB2	3:L:1749:ALA:HB1	1.88	0.55
3:L:3718:ARG:NH2	3:L:3743:HIS:HD2	2.05	0.55
3:C:532:ARG:HG3	3:C:532:ARG:HH11	1.71	0.55
3:C:913:ARG:CZ	3:C:2803:ILE:HG21	2.37	0.55
3:C:1132:ASP:O	3:C:1135:CYS:HB3	2.06	0.55
3:C:1403:MET:HE3	3:C:1463:LEU:HG	1.87	0.55
3:C:1708:GLU:H	3:C:1708:GLU:CD	2.10	0.55
3:C:1813:SER:HB2	3:C:1868:THR:HG21	1.89	0.55
3:C:1967:PHE:CD2	3:C:2122:LEU:HG	2.41	0.55
3:C:2464:HIS:HD1	3:C:2466:SER:H	1.54	0.55
8:I:10:MET:SD	8:I:223:THR:HA	2.47	0.55
2:K:151:ILE:HG23	2:K:215:LEU:HD23	1.87	0.55
3:L:1848:ILE:HG22	3:L:1852:LYS:HE3	1.89	0.55
3:L:2894:GLU:HG3	3:L:3973:PRO:CG	2.36	0.55
3:L:3579:SER:HA	3:L:3736:LYS:HZ1	1.72	0.55
3:L:3764:VAL:HA	3:L:3767:LEU:HD12	1.89	0.55
1:A:32:TYR:CE2	1:A:254:ARG:HD3	2.41	0.55
2:B:56:LEU:HD13	2:B:94:ILE:HD11	1.89	0.55
3:C:738:HIS:HB3	3:C:775:GLU:OE2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2503:LYS:NZ	3:C:2544:SER:O	2.34	0.55
3:C:2512:ASP:OD1	3:C:2513:GLU:N	2.39	0.55
3:C:2840:PHE:HA	3:C:2843:PHE:HD2	1.70	0.55
3:C:2977:ASN:HA	7:F:272:ARG:HH12	1.71	0.55
3:C:3424:LEU:HD11	3:C:3439:LEU:HD21	1.88	0.55
3:C:3913:ILE:HB	3:C:3984:MET:SD	2.46	0.55
3:C:3997:LEU:O	3:C:4001:THR:OG1	2.19	0.55
1:J:331:LYS:O	1:J:334:THR:HG22	2.06	0.55
1:J:398:CYS:SG	1:J:399:ARG:N	2.79	0.55
3:L:2205:VAL:H	3:L:2208:ASP:HB3	1.72	0.55
3:L:3236:PHE:CZ	3:L:3268:THR:HG21	2.42	0.55
3:L:3731:SER:H	3:L:3734:ARG:HE	1.54	0.55
3:L:3781:CYS:SG	3:L:3786:LEU:HD12	2.47	0.55
3:L:4126:PRO:HD2	3:L:4127:TRP:CZ3	2.42	0.55
1:A:53:SER:OG	1:A:54:GLU:OE1	2.22	0.55
3:C:629:PHE:O	3:C:632:GLU:N	2.39	0.55
3:C:2408:MET:SD	3:C:2408:MET:N	2.80	0.55
3:C:3918:LEU:O	3:C:3920:ILE:HG13	2.07	0.55
8:H:299:PHE:CD1	2:K:234:LEU:HD21	2.40	0.55
1:J:95:ASN:HD21	1:J:99:PHE:HB2	1.72	0.55
1:J:312:LEU:HD11	3:L:157:TYR:CE1	2.42	0.55
3:L:1241:LEU:HB2	3:L:1292:LYS:NZ	2.19	0.55
3:L:1411:TYR:CE1	3:L:1414:ILE:HD13	2.41	0.55
3:L:1813:SER:HB2	3:L:1868:THR:HG21	1.89	0.55
3:L:1877:LEU:HD12	3:L:1878:ASP:N	2.22	0.55
3:L:2503:LYS:NZ	3:L:2544:SER:O	2.34	0.55
3:L:2567:SER:HA	3:L:2572:TYR:CD2	2.42	0.55
3:L:3887:PHE:O	3:L:3890:MET:N	2.39	0.55
3:C:1048:GLN:O	3:C:1053:PRO:HD3	2.07	0.54
3:C:1696:LEU:HB2	3:C:1749:ALA:HB1	1.88	0.54
3:C:2454:LEU:O	3:C:2457:PRO:HD2	2.07	0.54
7:F:106:PHE:CZ	8:H:112:LEU:HD21	2.43	0.54
2:K:391:ALA:HB3	2:K:408:ALA:HB3	1.88	0.54
3:L:629:PHE:O	3:L:632:GLU:N	2.39	0.54
3:L:3190:LEU:HD12	3:L:3231:ILE:HD12	1.88	0.54
1:A:108:LEU:HD11	1:A:154:PHE:CD1	2.42	0.54
2:B:391:ALA:HB3	2:B:408:ALA:HB3	1.88	0.54
2:B:411:HIS:HB3	2:B:418:CYS:HB3	1.90	0.54
3:C:1477:HIS:O	3:C:1481:THR:OG1	2.16	0.54
3:C:1755:SER:HB3	3:C:1758:LEU:HB2	1.88	0.54
3:C:2119:PRO:O	3:C:2123:PRO:HD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2954:GLN:HE21	3:C:2958:LEU:HD21	1.72	0.54
3:C:3446:VAL:HG11	3:C:3471:ILE:HD13	1.89	0.54
1:J:273:ILE:HD12	1:J:434:LEU:HD11	1.89	0.54
2:K:411:HIS:HB3	2:K:418:CYS:HB3	1.90	0.54
2:K:729:LEU:HD21	3:L:1965:PHE:HB2	1.89	0.54
3:L:450:SER:O	3:L:454:GLN:N	2.38	0.54
3:L:738:HIS:CG	3:L:739:ASN:N	2.76	0.54
3:L:1048:GLN:O	3:L:1053:PRO:HD3	2.08	0.54
3:L:3008:TRP:CE3	3:L:3050:LYS:HB3	2.42	0.54
1:A:71:TYR:OH	1:A:115:ARG:HD2	2.07	0.54
1:A:312:LEU:HD11	3:C:157:TYR:CE1	2.42	0.54
2:B:81:ARG:NH2	2:B:85:LEU:O	2.39	0.54
3:C:1877:LEU:HD12	3:C:1878:ASP:N	2.22	0.54
3:C:3031:TRP:N	3:C:3031:TRP:CD1	2.73	0.54
3:C:3236:PHE:CZ	3:C:3268:THR:HG21	2.42	0.54
3:C:3717:VAL:HG23	3:C:3743:HIS:HB3	1.89	0.54
3:C:3718:ARG:NH2	3:C:3743:HIS:HD2	2.05	0.54
3:C:4056:PRO:HA	3:C:4059:ILE:HG22	1.89	0.54
1:J:173:ASP:OD2	1:J:212:ASP:N	2.38	0.54
3:L:3424:LEU:HD11	3:L:3439:LEU:HD21	1.89	0.54
9:X:669:GLY:O	9:X:673:GLN:HG3	2.06	0.54
1:A:398:CYS:SG	1:A:399:ARG:N	2.79	0.54
2:B:495:LEU:O	2:B:498:ALA:N	2.37	0.54
3:C:1235:ILE:HG12	3:C:1263:ALA:HB2	1.89	0.54
3:C:1816:ARG:HA	3:C:1819:PHE:HD2	1.73	0.54
3:C:2201:THR:N	3:C:2202:PRO:HD3	2.23	0.54
3:C:2733:MET:H	5:D:31:DT:H3	1.55	0.54
3:C:3478:GLU:N	3:C:3478:GLU:OE2	2.41	0.54
1:J:90:THR:HG21	1:J:103:TYR:HB2	1.89	0.54
1:J:205:LEU:HD12	1:J:206:LYS:H	1.70	0.54
2:K:364:VAL:N	2:K:419:LEU:O	2.33	0.54
3:L:880:MET:HG3	3:L:3934:THR:HG1	1.72	0.54
3:L:1681:ASP:HB3	3:L:1684:LEU:HD22	1.89	0.54
3:L:2350:LYS:O	3:L:2353:GLN:N	2.41	0.54
3:L:2947:ILE:O	3:L:2947:ILE:HG13	2.07	0.54
3:L:3285:HIS:NE2	3:L:3333:THR:OG1	2.28	0.54
3:L:3498:TRP:CZ3	3:L:3501:HIS:HB3	2.42	0.54
3:C:3498:TRP:CZ3	3:C:3501:HIS:HB3	2.42	0.54
3:C:3573:ASN:ND2	3:C:3577:GLN:OE1	2.40	0.54
3:C:3705:TYR:HE1	3:C:3716:HIS:CD2	2.25	0.54
3:L:170:VAL:O	3:L:174:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:27:DT:H2''	6:N:28:DA:C8	2.41	0.54
1:A:95:ASN:HD21	1:A:99:PHE:HB2	1.72	0.54
3:C:170:VAL:O	3:C:174:VAL:HG23	2.07	0.54
3:C:938:VAL:HA	3:C:941:MET:HE2	1.90	0.54
3:C:1766:LEU:HD21	3:C:1778:PHE:CD1	2.42	0.54
3:C:2136:PRO:HA	3:C:2143:ARG:HH22	1.73	0.54
3:C:2567:SER:HA	3:C:2572:TYR:CD2	2.42	0.54
3:C:3008:TRP:CE3	3:C:3050:LYS:HB3	2.42	0.54
3:L:738:HIS:HB3	3:L:775:GLU:OE2	2.07	0.54
3:L:880:MET:HG3	3:L:3934:THR:OG1	2.07	0.54
3:L:1102:GLU:OE2	3:L:1106:ILE:HD11	2.08	0.54
3:L:1240:THR:HG21	3:L:1256:TRP:CD1	2.43	0.54
3:L:1816:ARG:HA	3:L:1819:PHE:HD2	1.73	0.54
3:L:2119:PRO:O	3:L:2123:PRO:HD2	2.08	0.54
3:L:2237:ILE:HD13	3:L:2728:LEU:HD23	1.89	0.54
1:A:90:THR:HG21	1:A:103:TYR:HB2	1.89	0.54
2:B:130:ARG:NH2	2:B:157:CYS:O	2.39	0.54
3:C:450:SER:O	3:C:454:GLN:N	2.38	0.54
3:C:942:LEU:HD11	3:C:991:LEU:HD21	1.90	0.54
3:C:2277:LEU:HA	3:C:2280:VAL:HG12	1.89	0.54
3:C:3764:VAL:HA	3:C:3767:LEU:HD12	1.89	0.54
1:J:108:LEU:HD11	1:J:154:PHE:CD1	2.42	0.54
2:K:197:ILE:O	2:K:202:LYS:NZ	2.41	0.54
2:K:408:ALA:HB1	2:K:419:LEU:HD21	1.89	0.54
3:L:443:ILE:HD11	3:L:461:ILE:HG12	1.89	0.54
3:L:1458:LEU:O	3:L:1462:GLY:N	2.40	0.54
3:L:3478:GLU:N	3:L:3478:GLU:OE2	2.41	0.54
3:L:3573:ASN:ND2	3:L:3577:GLN:OE1	2.40	0.54
3:C:443:ILE:HD11	3:C:461:ILE:HG12	1.89	0.54
3:C:2417:SER:OG	3:C:2418:LYS:NZ	2.32	0.54
3:C:3285:HIS:NE2	3:C:3333:THR:OG1	2.28	0.54
3:C:3731:SER:H	3:C:3734:ARG:HE	1.55	0.54
5:D:14:DA:N6	6:E:17:DT:H3	2.06	0.54
3:L:778:ILE:HG23	3:L:779:TYR:CD1	2.43	0.54
3:L:3685:PRO:O	3:L:3688:SER:OG	2.18	0.54
2:B:12:LEU:HB2	2:B:56:LEU:HD23	1.90	0.54
2:B:408:ALA:HB1	2:B:419:LEU:HD21	1.89	0.54
3:C:778:ILE:HG23	3:C:779:TYR:CD1	2.43	0.54
3:C:1365:ASN:O	3:C:1368:LEU:HG	2.08	0.54
3:C:1857:LYS:HE3	3:C:1866:GLN:NE2	2.20	0.54
3:C:1936:ARG:HE	3:C:1939:LEU:HD21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2285:LEU:HD23	3:C:2329:TYR:HA	1.90	0.54
3:C:2474:TYR:O	3:C:2478:MET:HG3	2.08	0.54
3:C:2971:GLN:O	3:C:2974:GLU:HG2	2.07	0.54
3:C:3781:CYS:SG	3:C:3786:LEU:HD12	2.47	0.54
1:J:521:LEU:HA	1:J:524:GLU:OE1	2.08	0.54
2:K:245:ILE:HD11	5:M:7:DA:O3'	2.08	0.54
3:L:852:ARG:O	3:L:855:VAL:HG12	2.08	0.54
3:L:938:VAL:HA	3:L:941:MET:HE2	1.88	0.54
3:L:2136:PRO:HA	3:L:2143:ARG:HH22	1.73	0.54
1:A:86:VAL:HG23	1:A:104:VAL:HA	1.90	0.54
1:A:236:SER:O	1:A:239:LEU:HG	2.08	0.54
3:C:950:GLU:HB2	3:C:957:PRO:HG3	1.90	0.54
3:C:2220:MET:HG2	3:C:2276:LEU:HD11	1.90	0.54
3:C:2538:ARG:HH21	3:C:2565:MET:HE3	1.72	0.54
3:C:3451:LEU:HD21	3:C:3468:LEU:HD22	1.89	0.54
3:C:4074:PHE:HA	3:C:4077:TYR:HB2	1.89	0.54
1:J:236:SER:O	1:J:239:LEU:HG	2.08	0.54
3:L:943:GLY:O	3:L:946:THR:HG22	2.08	0.54
3:L:985:GLU:HG3	3:L:1028:PHE:HE1	1.73	0.54
3:L:1225:GLU:HG3	3:L:1235:ILE:HB	1.90	0.54
3:L:1305:ASP:HB2	3:L:1334:LYS:HE3	1.90	0.54
3:L:1862:THR:O	3:L:1865:THR:OG1	2.24	0.54
3:L:3451:LEU:HD21	3:L:3468:LEU:HD22	1.89	0.54
1:A:521:LEU:HA	1:A:524:GLU:OE1	2.08	0.53
3:C:880:MET:HG3	3:C:3934:THR:OG1	2.07	0.53
3:C:971:ARG:HA	3:C:1025:LEU:HD13	1.90	0.53
3:C:1195:VAL:HA	3:C:1198:LEU:HD23	1.90	0.53
3:C:1305:ASP:HB2	3:C:1334:LYS:HE3	1.90	0.53
3:C:1538:LEU:HG	3:C:1555:HIS:HB2	1.91	0.53
3:C:2506:LEU:HD22	3:C:2525:TRP:NE1	2.23	0.53
3:C:3499:ILE:HA	3:C:3502:MET:SD	2.48	0.53
1:J:254:ARG:HB3	1:J:254:ARG:CZ	2.37	0.53
1:J:275:ASN:OD1	1:J:276:LEU:N	2.41	0.53
3:L:1235:ILE:HG12	3:L:1263:ALA:HB2	1.89	0.53
3:L:1936:ARG:HE	3:L:1939:LEU:HD21	1.73	0.53
3:L:2277:LEU:HA	3:L:2280:VAL:HG12	1.89	0.53
3:L:2474:TYR:O	3:L:2478:MET:HG3	2.08	0.53
3:L:3784:ARG:HG3	3:L:3784:ARG:HH11	1.72	0.53
7:O:134:ILE:HG23	7:O:138:GLN:NE2	2.06	0.53
1:A:275:ASN:OD1	1:A:276:LEU:N	2.41	0.53
2:B:245:ILE:HD11	5:D:7:DA:O3'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:356:PHE:HD2	2:B:422:VAL:HG11	1.73	0.53
2:B:477:PHE:HD1	2:B:519:PRO:HD3	1.73	0.53
3:C:417:VAL:HA	3:C:420:VAL:HG22	1.90	0.53
3:C:789:TYR:CD2	3:C:866:ILE:HG23	2.43	0.53
3:C:1848:ILE:HG22	3:C:1852:LYS:HE3	1.89	0.53
3:C:3041:LEU:O	3:C:3044:MET:N	2.42	0.53
3:L:910:PHE:CZ	3:L:2808:LEU:HA	2.44	0.53
3:L:1048:GLN:HB2	3:L:1052:SER:HB3	1.90	0.53
3:L:1195:VAL:HA	3:L:1198:LEU:HD23	1.91	0.53
3:L:1382:ILE:O	3:L:1384:PHE:N	2.40	0.53
3:L:2977:ASN:CG	7:P:272:ARG:NH2	2.59	0.53
3:L:3893:SER:O	3:L:3895:GLU:N	2.41	0.53
1:A:254:ARG:HB3	1:A:254:ARG:CZ	2.37	0.53
2:B:270:GLU:OE2	2:B:273:LYS:NZ	2.32	0.53
2:B:729:LEU:HD21	3:C:1965:PHE:HB2	1.89	0.53
3:C:899:ARG:O	3:L:2570:PRO:HG3	2.08	0.53
3:C:3528:ALA:HB2	3:C:3705:TYR:CD2	2.43	0.53
6:E:1:DG:N2	6:E:2:DT:C2	2.77	0.53
2:K:165:LEU:O	2:K:226:SER:HA	2.09	0.53
2:K:437:SER:OG	2:K:438:LEU:N	2.41	0.53
3:L:1963:GLN:HE22	3:L:1968:SER:HB3	1.72	0.53
3:L:3815:LEU:HD13	3:L:3930:VAL:HG11	1.90	0.53
3:L:3953:LEU:HD13	3:L:4068:HIS:CG	2.44	0.53
1:A:262:LYS:HB3	1:A:268:VAL:HG12	1.90	0.53
3:C:985:GLU:HG3	3:C:1028:PHE:HE1	1.73	0.53
3:C:1240:THR:HG21	3:C:1256:TRP:CD1	2.43	0.53
3:C:1838:GLU:O	3:C:1841:SER:OG	2.27	0.53
3:C:2237:ILE:HD13	3:C:2728:LEU:HD23	1.89	0.53
3:C:2848:PHE:HB2	3:C:3077:ILE:CD1	2.38	0.53
3:C:3445:LEU:O	3:C:3449:LYS:HB2	2.09	0.53
3:L:1708:GLU:H	3:L:1708:GLU:CD	2.10	0.53
3:L:2119:PRO:O	3:L:2122:LEU:N	2.39	0.53
3:L:2201:THR:N	3:L:2202:PRO:HD3	2.23	0.53
3:L:2454:LEU:O	3:L:2457:PRO:HD2	2.07	0.53
3:L:2999:LEU:HB3	3:L:3043:TYR:HD2	1.73	0.53
1:A:171:ASN:O	1:A:173:ASP:N	2.42	0.53
3:C:738:HIS:CG	3:C:739:ASN:N	2.76	0.53
3:C:1102:GLU:OE2	3:C:1106:ILE:HD11	2.08	0.53
3:C:1482:GLU:O	3:C:1486:LEU:HB2	2.09	0.53
3:C:3815:LEU:HD13	3:C:3930:VAL:HG11	1.90	0.53
3:C:3953:LEU:HD13	3:C:4068:HIS:CG	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:477:PHE:HD1	2:K:519:PRO:HD3	1.72	0.53
3:L:950:GLU:HB2	3:L:957:PRO:HG3	1.90	0.53
3:L:971:ARG:HA	3:L:1025:LEU:HD13	1.91	0.53
3:L:2506:LEU:HD22	3:L:2525:TRP:NE1	2.23	0.53
3:L:3294:SER:O	3:L:3297:VAL:HG12	2.08	0.53
3:L:3499:ILE:HA	3:L:3502:MET:SD	2.48	0.53
3:L:4089:ILE:HG12	3:L:4109:ASP:OD2	2.09	0.53
1:A:95:ASN:OD1	1:A:97:VAL:N	2.42	0.53
3:C:709:LYS:HG2	3:C:1388:ASP:HB2	1.91	0.53
3:C:1382:ILE:O	3:C:1384:PHE:N	2.41	0.53
3:C:3294:SER:O	3:C:3297:VAL:HG12	2.08	0.53
3:C:3784:ARG:HG3	3:C:3784:ARG:HH11	1.72	0.53
3:C:3875:GLU:HG2	3:C:3965:ARG:HD3	1.90	0.53
6:E:21:DA:H2''	6:E:22:DG:C8	2.44	0.53
1:J:262:LYS:HB3	1:J:268:VAL:HG12	1.91	0.53
3:L:789:TYR:CD2	3:L:866:ILE:HG23	2.43	0.53
3:L:1337:VAL:O	3:L:1341:ILE:HG23	2.08	0.53
3:L:1403:MET:HE3	3:L:1463:LEU:HG	1.90	0.53
3:L:1482:GLU:O	3:L:1486:LEU:HB2	2.09	0.53
3:L:2954:GLN:HE21	3:L:2958:LEU:HD21	1.72	0.53
3:L:3528:ALA:HB2	3:L:3705:TYR:CD2	2.44	0.53
3:L:4054:ALA:O	3:L:4103:GLN:NE2	2.41	0.53
3:L:4074:PHE:HA	3:L:4077:TYR:HB2	1.90	0.53
6:N:23:DT:C6	6:N:23:DT:H5'	2.43	0.53
1:A:214:SER:HA	1:A:218:ARG:HB2	1.90	0.53
2:B:129:LYS:HZ3	2:B:131:HIS:CD2	2.26	0.53
3:C:2350:LYS:O	3:C:2353:GLN:N	2.41	0.53
3:C:3585:PHE:HA	3:C:3588:TRP:NE1	2.23	0.53
2:K:356:PHE:HD2	2:K:422:VAL:HG11	1.73	0.53
3:L:1344:PHE:CE1	3:L:1348:LEU:HD13	2.44	0.53
3:L:1857:LYS:HE3	3:L:1866:GLN:NE2	2.20	0.53
3:L:1987:ARG:HA	3:L:1987:ARG:HE	1.74	0.53
3:L:2584:CYS:SG	3:L:2780:LEU:HB2	2.49	0.53
3:L:3250:ASN:HA	3:L:3252:PHE:CE1	2.44	0.53
3:L:3467:ARG:CZ	3:L:3471:ILE:HG13	2.39	0.53
9:X:711:ASN:O	9:X:714:LEU:N	2.42	0.53
2:B:197:ILE:O	2:B:202:LYS:NZ	2.41	0.53
3:C:264:ARG:NH1	6:E:9:DT:H5'	2.24	0.53
3:C:1225:GLU:HG3	3:C:1235:ILE:HB	1.90	0.53
3:C:1634:ALA:HB3	3:C:1637:SER:HB2	1.91	0.53
3:C:1892:LYS:O	3:C:1908:GLY:N	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1991:PRO:HD3	3:C:2734:ARG:NE	2.24	0.53
3:C:3827:ALA:HA	3:C:3831:ASP:HB3	1.91	0.53
6:E:23:DT:C6	6:E:23:DT:H5'	2.43	0.53
1:J:86:VAL:HG23	1:J:104:VAL:HA	1.90	0.53
1:J:294:GLU:OE2	2:K:298:ASN:ND2	2.41	0.53
3:L:417:VAL:HA	3:L:420:VAL:HG22	1.89	0.53
3:L:942:LEU:HD11	3:L:991:LEU:HD21	1.90	0.53
3:L:3585:PHE:HA	3:L:3588:TRP:NE1	2.23	0.53
5:M:14:DA:N6	6:N:17:DT:H3	2.06	0.53
1:A:330:GLU:HB2	1:A:333:GLU:HG2	1.90	0.53
2:B:478:PRO:C	2:B:480:THR:H	2.13	0.53
3:C:196:LEU:HD22	3:C:230:LEU:HD22	1.90	0.53
3:C:275:PHE:CZ	3:C:286:LEU:HD11	2.43	0.53
3:C:852:ARG:O	3:C:855:VAL:HG12	2.08	0.53
3:C:943:GLY:O	3:C:946:THR:HG22	2.08	0.53
3:C:1048:GLN:HB2	3:C:1052:SER:HB3	1.90	0.53
3:C:1256:TRP:CD1	3:C:1259:LEU:HD23	2.44	0.53
3:C:3511:ALA:O	3:C:3515:GLN:HG2	2.08	0.53
3:C:3564:GLN:O	3:C:3697:ASN:ND2	2.42	0.53
3:C:4039:TYR:C	3:C:4043:LYS:HE3	2.29	0.53
3:C:4054:ALA:O	3:C:4103:GLN:NE2	2.41	0.53
1:J:95:ASN:OD1	1:J:97:VAL:N	2.42	0.53
1:J:171:ASN:O	1:J:173:ASP:N	2.42	0.53
3:L:1125:GLN:OE1	3:L:1125:GLN:N	2.39	0.53
3:L:2220:MET:HG2	3:L:2276:LEU:HD11	1.90	0.53
3:L:2733:MET:H	5:M:31:DT:H3	1.55	0.53
3:L:3827:ALA:HA	3:L:3831:ASP:HB3	1.91	0.53
1:A:327:ILE:O	1:A:328:ILE:HD13	2.09	0.53
1:A:352:PRO:HG3	2:B:473:LEU:HD22	1.91	0.53
3:C:2999:LEU:HB3	3:C:3043:TYR:HD2	1.74	0.53
3:C:3250:ASN:HA	3:C:3252:PHE:CE1	2.44	0.53
3:C:3467:ARG:CZ	3:C:3471:ILE:HG13	2.39	0.53
8:I:10:MET:SD	8:I:223:THR:HG22	2.49	0.53
1:J:214:SER:HA	1:J:218:ARG:HB2	1.90	0.53
3:L:3156:PRO:HD2	3:L:3157:LEU:N	2.23	0.53
3:L:3511:ALA:O	3:L:3515:GLN:HG2	2.08	0.53
3:C:910:PHE:CZ	3:C:2808:LEU:HA	2.44	0.52
3:C:3008:TRP:N	3:C:3008:TRP:CD1	2.76	0.52
8:H:12:PRO:HB3	8:H:219:MET:SD	2.48	0.52
3:L:709:LYS:HG2	3:L:1388:ASP:HB2	1.91	0.52
3:L:1256:TRP:CD1	3:L:1259:LEU:HD23	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3436:SER:HA	3:L:3439:LEU:HB3	1.91	0.52
3:L:3825:LYS:HG3	3:L:3829:LEU:HD23	1.91	0.52
3:L:3959:MET:HG3	3:L:4124:TRP:CH2	2.44	0.52
6:N:1:DG:N2	6:N:2:DT:C2	2.77	0.52
1:A:273:ILE:HD12	1:A:434:LEU:HD11	1.89	0.52
2:B:165:LEU:O	2:B:226:SER:HA	2.09	0.52
2:B:540:ILE:H	2:B:540:ILE:HD12	1.74	0.52
3:C:385:TYR:CE2	3:C:424:LEU:HD11	2.44	0.52
3:C:1337:VAL:O	3:C:1341:ILE:HG23	2.08	0.52
3:C:2584:CYS:SG	3:C:2780:LEU:HB2	2.49	0.52
3:C:2947:ILE:O	3:C:2947:ILE:HG13	2.07	0.52
1:J:262:LYS:HA	1:J:268:VAL:HA	1.91	0.52
1:J:330:GLU:HB2	1:J:333:GLU:HG2	1.90	0.52
2:K:354:ARG:HG3	2:K:355:PHE:N	2.24	0.52
3:L:196:LEU:HD22	3:L:230:LEU:HD22	1.90	0.52
3:L:275:PHE:CZ	3:L:286:LEU:HD11	2.43	0.52
3:L:1365:ASN:O	3:L:1368:LEU:HG	2.08	0.52
3:L:3008:TRP:N	3:L:3008:TRP:CD1	2.76	0.52
3:L:3585:PHE:HA	3:L:3588:TRP:CD1	2.45	0.52
3:L:3717:VAL:HG23	3:L:3743:HIS:HB3	1.90	0.52
3:L:3875:GLU:HG2	3:L:3965:ARG:HD3	1.90	0.52
3:L:4039:TYR:C	3:L:4043:LYS:HE3	2.30	0.52
3:L:4056:PRO:HA	3:L:4059:ILE:HG22	1.89	0.52
5:M:27:DA:H1'	5:M:28:DC:H5''	1.91	0.52
1:A:294:GLU:OE2	2:B:298:ASN:ND2	2.41	0.52
3:C:227:LEU:HD21	3:C:248:ILE:HD12	1.91	0.52
3:C:484:HIS:CE1	3:C:488:ILE:HD11	2.44	0.52
3:C:668:LYS:O	3:C:671:SER:OG	2.17	0.52
3:C:1713:VAL:O	3:C:1716:GLN:HG2	2.10	0.52
3:C:3893:SER:O	3:C:3895:GLU:N	2.41	0.52
1:J:216:PHE:HD2	1:J:217:TYR:CE1	2.27	0.52
1:J:422:ASP:N	1:J:422:ASP:OD1	2.42	0.52
3:L:484:HIS:CE1	3:L:488:ILE:HD11	2.44	0.52
3:L:3041:LEU:O	3:L:3044:MET:N	2.42	0.52
3:L:3443:PRO:O	3:L:3446:VAL:HG12	2.09	0.52
6:N:1:DG:H2'	6:N:2:DT:H71	1.92	0.52
6:N:21:DA:H2''	6:N:22:DG:C8	2.44	0.52
1:A:192:ASP:O	1:A:195:ASP:N	2.42	0.52
2:B:529:PRO:O	2:B:532:LYS:HG2	2.10	0.52
3:C:385:TYR:CD2	3:C:424:LEU:HD11	2.44	0.52
3:C:972:LEU:HD23	3:C:984:TYR:HE2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1410:PRO:O	3:C:1411:TYR:HB3	2.10	0.52
3:C:1963:GLN:HE22	3:C:1968:SER:HB3	1.72	0.52
3:C:1987:ARG:HA	3:C:1987:ARG:HE	1.74	0.52
3:C:2551:GLU:O	3:C:2554:PHE:N	2.36	0.52
3:C:3959:MET:HG3	3:C:4124:TRP:CH2	2.44	0.52
3:C:4089:ILE:HG12	3:C:4109:ASP:OD2	2.09	0.52
5:D:6:DG:C4	5:D:7:DA:C8	2.97	0.52
3:L:385:TYR:CD2	3:L:424:LEU:HD11	2.44	0.52
3:L:1487:VAL:O	3:L:1491:ILE:N	2.29	0.52
3:L:1595:ALA:HA	3:L:1598:ASN:HD22	1.74	0.52
3:L:1898:GLN:OE1	3:L:1898:GLN:N	2.43	0.52
3:L:2285:LEU:HD23	3:L:2329:TYR:HA	1.90	0.52
3:L:2848:PHE:HB2	3:L:3077:ILE:CD1	2.38	0.52
9:X:681:ARG:HG2	9:X:730:PHE:CE2	2.44	0.52
2:B:526:SER:O	2:B:529:PRO:HD2	2.10	0.52
3:C:1046:PRO:HA	3:C:1049:GLN:CB	2.40	0.52
3:C:1898:GLN:OE1	3:C:1898:GLN:N	2.43	0.52
3:C:2166:SER:OG	3:C:2167:PRO:HD3	2.10	0.52
3:C:2279:ILE:O	3:C:2283:ASN:ND2	2.43	0.52
3:C:4056:PRO:HD2	3:C:4106:CYS:SG	2.49	0.52
5:D:21:DT:H2''	5:D:22:DA:H8	1.74	0.52
2:K:45:GLN:NE2	2:K:54:ILE:HD12	2.24	0.52
3:L:385:TYR:CE2	3:L:424:LEU:HD11	2.44	0.52
3:L:732:PHE:O	3:L:735:SER:OG	2.20	0.52
3:L:1184:ARG:NH2	3:L:1262:ALA:O	2.42	0.52
3:L:1634:ALA:HB3	3:L:1637:SER:HB2	1.91	0.52
3:L:1713:VAL:O	3:L:1716:GLN:HG2	2.10	0.52
3:L:2367:VAL:HG11	3:L:2374:LEU:HD13	1.91	0.52
3:L:2551:GLU:O	3:L:2553:HIS:N	2.43	0.52
6:N:20:DG:H2''	6:N:21:DA:H8	1.75	0.52
2:B:446:PRO:HB2	2:B:451:LEU:HD21	1.92	0.52
2:B:551:GLN:NE2	3:C:208:MET:HB2	2.25	0.52
3:C:993:HIS:CE1	3:C:1039:TRP:CZ2	2.97	0.52
3:C:2119:PRO:O	3:C:2122:LEU:N	2.40	0.52
2:K:529:PRO:O	2:K:532:LYS:HG2	2.10	0.52
3:L:61:ARG:O	3:L:67:VAL:HG21	2.10	0.52
3:L:1297:PHE:CD1	3:L:1301:ILE:HB	2.44	0.52
3:L:1913:LYS:O	3:L:1916:ILE:HG22	2.10	0.52
3:L:3090:TYR:OH	3:L:3098:ARG:NH2	2.43	0.52
3:L:3797:THR:HG22	3:L:3800:LEU:HB3	1.91	0.52
3:L:3886:ALA:O	3:L:3890:MET:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:GLN:NE2	2:B:354:ARG:HB3	2.25	0.52
3:C:47:SER:HB3	3:C:50:VAL:HG12	1.92	0.52
3:C:3357:ARG:NH2	3:C:3358:ARG:HH12	2.08	0.52
3:C:3825:LYS:HG3	3:C:3829:LEU:HD23	1.91	0.52
6:E:1:DG:H2'	6:E:2:DT:H71	1.92	0.52
7:F:106:PHE:CD1	8:H:113:SER:HB2	2.44	0.52
1:J:41:LEU:HA	1:J:86:VAL:O	2.10	0.52
1:J:95:ASN:ND2	1:J:99:PHE:H	2.06	0.52
1:J:327:ILE:O	1:J:328:ILE:HD13	2.09	0.52
1:J:352:PRO:HG3	2:K:473:LEU:HD22	1.92	0.52
3:L:2166:SER:OG	3:L:2167:PRO:HD3	2.10	0.52
3:L:3357:ARG:NH2	3:L:3358:ARG:HH12	2.08	0.52
3:L:3445:LEU:O	3:L:3449:LYS:HB2	2.09	0.52
3:C:1297:PHE:CD1	3:C:1301:ILE:HB	2.44	0.52
3:C:2122:LEU:HB3	3:C:2123:PRO:HD3	1.92	0.52
5:D:14:DA:H2'	5:D:15:DT:H71	1.91	0.52
3:L:1838:GLU:O	3:L:1841:SER:OG	2.27	0.52
3:L:1991:PRO:HD3	3:L:2734:ARG:NE	2.24	0.52
3:L:3710:LYS:HZ1	3:L:3712:LEU:HD22	1.74	0.52
3:L:3892:THR:OG1	3:L:3893:SER:N	2.42	0.52
9:Y:681:ARG:HG2	9:Y:730:PHE:CE2	2.44	0.52
1:A:263:LEU:HD11	1:A:381:LEU:HD21	1.92	0.52
1:A:446:MET:HG2	1:A:447:PRO:HD2	1.92	0.52
3:C:1184:ARG:NH2	3:C:1262:ALA:O	2.42	0.52
3:C:2367:VAL:HG11	3:C:2374:LEU:HD13	1.91	0.52
3:C:3413:TYR:O	3:C:3416:LEU:HG	2.10	0.52
3:C:3763:ARG:HH11	3:C:4004:VAL:HG13	1.75	0.52
3:C:3929:MET:HB2	3:C:3940:ILE:CD1	2.35	0.52
1:J:113:ALA:C	1:J:115:ARG:H	2.13	0.52
2:K:413:LYS:O	2:K:416:TYR:N	2.42	0.52
3:L:227:LEU:HD21	3:L:248:ILE:HD12	1.91	0.52
3:L:264:ARG:NH1	6:N:9:DT:H5'	2.24	0.52
3:L:386:VAL:HG22	3:L:431:TYR:HE2	1.74	0.52
3:L:2092:GLU:OE1	3:L:2092:GLU:N	2.43	0.52
3:L:3483:MET:SD	3:L:3513:ALA:HA	2.50	0.52
3:L:3881:ASP:H	3:L:3969:ASN:HD22	1.58	0.52
3:L:4056:PRO:HD2	3:L:4106:CYS:SG	2.49	0.52
1:A:41:LEU:HA	1:A:86:VAL:O	2.10	0.52
3:C:248:ILE:O	3:C:252:VAL:HG23	2.10	0.52
3:C:2551:GLU:O	3:C:2553:HIS:N	2.43	0.52
3:C:3443:PRO:O	3:C:3446:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:244:SER:OG	2:K:245:ILE:N	2.43	0.52
3:L:1527:ARG:O	3:L:1530:SER:OG	2.16	0.52
3:L:3338:ALA:HB1	3:L:3378:TYR:CZ	2.45	0.52
5:M:6:DG:C4	5:M:7:DA:C8	2.97	0.52
5:M:21:DT:H2''	5:M:22:DA:H8	1.74	0.52
7:O:130:CYS:C	7:P:134:ILE:HD11	2.23	0.52
1:A:271:VAL:CG1	1:A:368:VAL:HG13	2.39	0.51
2:B:45:GLN:NE2	2:B:54:ILE:HD12	2.24	0.51
2:B:486:ARG:NH1	6:E:19:DA:OP2	2.40	0.51
3:C:364:ARG:HE	3:C:415:GLN:HG2	1.75	0.51
3:C:1595:ALA:HA	3:C:1598:ASN:HD22	1.75	0.51
3:C:2361:ILE:HG13	3:C:2389:PHE:HE2	1.73	0.51
3:C:3886:ALA:O	3:C:3890:MET:HG3	2.10	0.51
1:J:303:PHE:CE1	2:K:292:GLU:HG2	2.46	0.51
2:K:12:LEU:HB2	2:K:56:LEU:HD23	1.90	0.51
3:L:248:ILE:O	3:L:252:VAL:HG23	2.10	0.51
3:L:364:ARG:HE	3:L:415:GLN:HG2	1.75	0.51
3:L:993:HIS:CE1	3:L:1039:TRP:CZ2	2.97	0.51
3:L:1538:LEU:HG	3:L:1555:HIS:HB2	1.91	0.51
3:L:1990:PHE:HB3	3:L:1991:PRO:CD	2.37	0.51
3:L:2361:ILE:HG13	3:L:2389:PHE:HE2	1.73	0.51
3:L:2538:ARG:HH21	3:L:2565:MET:HE3	1.74	0.51
3:L:4040:PRO:HA	3:L:4043:LYS:CG	2.40	0.51
5:M:11:DC:H42	6:N:19:DA:N6	2.09	0.51
1:A:35:ARG:HD3	1:A:80:ARG:CG	2.37	0.51
1:A:216:PHE:HD2	1:A:217:TYR:CE1	2.27	0.51
1:A:262:LYS:HA	1:A:268:VAL:HA	1.91	0.51
1:A:303:PHE:CE1	2:B:292:GLU:HG2	2.46	0.51
3:C:1577:LEU:O	3:C:1580:LEU:HG	2.11	0.51
3:C:2151:ILE:O	3:C:2154:GLU:HG3	2.10	0.51
3:C:3330:LEU:HB3	3:C:3384:HIS:HE2	1.75	0.51
8:H:298:LEU:CD1	2:K:41:PHE:CG	2.93	0.51
1:J:263:LEU:HD11	1:J:381:LEU:HD21	1.92	0.51
2:K:45:GLN:HE21	2:K:54:ILE:HD12	1.75	0.51
3:L:47:SER:HB3	3:L:50:VAL:HG12	1.92	0.51
3:L:1840:PHE:HD2	3:L:1880:MET:HB3	1.75	0.51
3:L:1963:GLN:NE2	3:L:1968:SER:HB3	2.25	0.51
3:L:2510:LEU:HB3	3:L:2550:ILE:HD11	1.91	0.51
5:M:14:DA:H2'	5:M:15:DT:H71	1.91	0.51
2:B:45:GLN:HE21	2:B:54:ILE:HD12	1.75	0.51
2:B:244:SER:OG	2:B:245:ILE:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:371:GLU:O	2:B:374:ALA:N	2.44	0.51
3:C:1815:THR:HG22	3:C:1819:PHE:CE2	2.46	0.51
3:C:2564:GLU:O	3:C:2567:SER:OG	2.15	0.51
3:C:3244:ASP:OD1	3:C:3247:ARG:NH2	2.43	0.51
3:C:3713:PRO:HA	3:C:3716:HIS:NE2	2.26	0.51
3:C:3892:THR:OG1	3:C:3893:SER:N	2.42	0.51
7:F:134:ILE:HD11	7:G:130:CYS:C	2.23	0.51
1:J:372:GLU:OE2	1:J:377:GLY:N	2.22	0.51
2:K:270:GLU:OE2	2:K:273:LYS:NZ	2.32	0.51
2:K:371:GLU:O	2:K:374:ALA:N	2.44	0.51
2:K:526:SER:O	2:K:529:PRO:HD2	2.10	0.51
3:L:478:CYS:O	3:L:481:THR:OG1	2.23	0.51
3:L:929:ALA:O	3:L:932:GLU:HG3	2.11	0.51
3:L:1749:ALA:O	3:L:1753:SER:OG	2.20	0.51
3:L:2916:LEU:HG	3:L:2918:PRO:HD2	1.93	0.51
3:L:3564:GLN:O	3:L:3697:ASN:ND2	2.42	0.51
2:B:437:SER:OG	2:B:438:LEU:N	2.41	0.51
3:C:1344:PHE:CE1	3:C:1348:LEU:HD13	2.44	0.51
3:C:2510:LEU:HB3	3:C:2550:ILE:HD11	1.91	0.51
3:C:3380:ARG:O	3:C:3383:GLN:HG3	2.10	0.51
3:C:3585:PHE:HA	3:C:3588:TRP:CD1	2.45	0.51
3:C:3912:CYS:HB3	3:C:3961:PHE:CE1	2.46	0.51
5:D:11:DC:H42	6:E:19:DA:N6	2.08	0.51
2:K:405:VAL:O	2:K:423:GLN:NE2	2.44	0.51
2:K:540:ILE:H	2:K:540:ILE:HD12	1.74	0.51
3:L:920:THR:HG22	3:L:920:THR:O	2.11	0.51
3:L:1892:LYS:O	3:L:1908:GLY:N	2.27	0.51
3:L:2106:ARG:HG2	3:L:2106:ARG:HH11	1.75	0.51
3:L:3713:PRO:HA	3:L:3716:HIS:NE2	2.26	0.51
6:N:13:DG:H1'	6:N:14:DA:O4'	2.10	0.51
1:A:380:THR:O	1:A:383:SER:OG	2.20	0.51
2:B:353:ARG:O	2:B:356:PHE:HD1	1.93	0.51
2:B:477:PHE:CE1	2:B:518:PRO:HA	2.46	0.51
3:C:61:ARG:O	3:C:67:VAL:HG21	2.10	0.51
3:C:678:LYS:NZ	3:C:735:SER:O	2.31	0.51
3:C:888:ARG:HH11	3:C:3932:MET:HG2	1.75	0.51
3:C:920:THR:O	3:C:920:THR:HG22	2.11	0.51
3:C:1527:ARG:O	3:C:1530:SER:OG	2.16	0.51
3:C:1913:LYS:O	3:C:1916:ILE:HG22	2.10	0.51
3:C:1990:PHE:HB3	3:C:1991:PRO:CD	2.37	0.51
3:C:2106:ARG:HG2	3:C:2106:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3338:ALA:HB1	3:C:3378:TYR:CZ	2.46	0.51
3:L:972:LEU:HD23	3:L:984:TYR:HE2	1.75	0.51
3:L:2151:ILE:O	3:L:2154:GLU:HG3	2.10	0.51
3:L:2443:MET:O	3:L:2446:LEU:HD23	2.11	0.51
3:L:2891:ARG:HG3	3:L:2891:ARG:NH2	2.25	0.51
3:L:3325:ASP:O	3:L:3328:ILE:HG22	2.10	0.51
3:L:3763:ARG:HH11	3:L:4004:VAL:HG13	1.75	0.51
2:B:11:VAL:HG22	2:B:55:ALA:HB3	1.92	0.51
3:C:22:ALA:O	3:C:24:ARG:N	2.44	0.51
3:C:789:TYR:HA	3:C:792:ILE:CG2	2.39	0.51
3:C:1828:LEU:HD23	3:C:1880:MET:HE3	1.92	0.51
3:C:1963:GLN:NE2	3:C:1968:SER:HB3	2.25	0.51
3:C:2092:GLU:N	3:C:2092:GLU:OE1	2.43	0.51
3:C:3797:THR:HG22	3:C:3800:LEU:HB3	1.91	0.51
6:E:9:DT:H2''	6:E:10:DA:C8	2.46	0.51
1:J:53:SER:OG	1:J:54:GLU:OE1	2.22	0.51
1:J:271:VAL:CG1	1:J:368:VAL:HG13	2.39	0.51
2:K:11:VAL:HG22	2:K:55:ALA:HB3	1.92	0.51
3:L:671:SER:HA	3:L:674:VAL:HG12	1.93	0.51
3:L:1109:GLU:OE1	3:L:1178:ARG:NH1	2.44	0.51
3:L:2418:LYS:O	3:L:2420:PHE:N	2.43	0.51
3:L:3236:PHE:CE1	3:L:3265:GLU:HB3	2.46	0.51
3:L:3413:TYR:O	3:L:3416:LEU:HG	2.10	0.51
9:Y:722:LYS:NZ	9:Y:741:ARG:HG3	2.25	0.51
2:B:354:ARG:HG3	2:B:355:PHE:N	2.24	0.51
3:C:406:ARG:NH2	3:C:407:VAL:HG12	2.26	0.51
3:C:848:LEU:O	3:C:851:ILE:HG22	2.11	0.51
3:C:862:LEU:HB3	3:C:866:ILE:HG21	1.92	0.51
3:C:1681:ASP:OD2	3:C:1683:LYS:N	2.44	0.51
3:C:3483:MET:SD	3:C:3513:ALA:HA	2.50	0.51
6:E:19:DA:C2	6:E:20:DG:C4	2.99	0.51
2:K:477:PHE:CE1	2:K:518:PRO:HA	2.46	0.51
3:L:579:LEU:HD22	3:L:619:ASP:OD1	2.11	0.51
3:L:1046:PRO:HA	3:L:1049:GLN:CB	2.40	0.51
3:L:2279:ILE:O	3:L:2283:ASN:ND2	2.43	0.51
2:B:327:ASP:HB3	9:X:711:ASN:ND2	2.26	0.51
3:C:3090:TYR:OH	3:C:3098:ARG:NH2	2.43	0.51
3:C:3406:ALA:O	3:C:3410:ILE:HG12	2.10	0.51
6:E:13:DG:H1'	6:E:14:DA:O4'	2.10	0.51
2:K:74:TYR:HA	2:K:109:ASP:OD1	2.11	0.51
3:L:1681:ASP:OD2	3:L:1683:LYS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3244:ASP:OD1	3:L:3247:ARG:NH2	2.43	0.51
3:L:3330:LEU:HB3	3:L:3384:HIS:HE2	1.75	0.51
9:Y:682:ILE:O	9:Y:686:GLY:N	2.44	0.51
3:C:386:VAL:HG22	3:C:431:TYR:HE2	1.74	0.51
3:C:1082:PHE:CZ	3:C:1134:LEU:HG	2.46	0.51
3:C:1102:GLU:HG3	3:C:1154:PRO:CA	2.36	0.51
3:C:1109:GLU:OE1	3:C:1178:ARG:NH1	2.44	0.51
3:C:1866:GLN:OE1	3:C:1866:GLN:N	2.43	0.51
3:C:1913:LYS:O	3:C:1916:ILE:N	2.41	0.51
3:C:3255:ALA:O	3:C:3259:LEU:HD23	2.10	0.51
3:C:3382:PHE:HZ	3:C:3445:LEU:HD12	1.76	0.51
3:C:3436:SER:HA	3:C:3439:LEU:HB3	1.91	0.51
3:C:3700:GLU:HA	3:C:3718:ARG:HA	1.93	0.51
3:C:3921:GLY:HA3	3:C:3949:ALA:HB2	1.93	0.51
6:E:20:DG:H2"	6:E:21:DA:H8	1.75	0.51
2:K:353:ARG:O	2:K:356:PHE:HD1	1.93	0.51
3:L:848:LEU:O	3:L:851:ILE:HG22	2.11	0.51
3:L:1411:TYR:CD1	3:L:1414:ILE:HD13	2.46	0.51
3:L:1415:LEU:HA	3:L:1419:LEU:HD13	1.93	0.51
3:L:3325:ASP:O	3:L:3329:LEU:HG	2.11	0.51
3:L:3759:ARG:HD2	3:L:3763:ARG:HH21	1.76	0.51
1:A:357:LYS:HB2	1:A:360:HIS:NE2	2.26	0.51
1:A:384:ALA:HB1	2:B:454:VAL:HG21	1.92	0.51
2:B:447:THR:N	2:B:450:GLN:OE1	2.44	0.51
3:C:1241:LEU:HB2	3:C:1292:LYS:NZ	2.19	0.51
3:C:2262:GLY:O	3:C:2264:ASP:N	2.44	0.51
1:J:206:LYS:HA	1:J:234:GLU:O	2.11	0.51
1:J:433:GLN:NE2	2:K:354:ARG:HB3	2.25	0.51
3:L:862:LEU:HB3	3:L:866:ILE:HG21	1.93	0.51
3:L:1195:VAL:HG23	3:L:1196:PRO:HD3	1.93	0.51
3:L:1564:SER:O	3:L:1568:ASN:ND2	2.44	0.51
3:L:1577:LEU:O	3:L:1580:LEU:HG	2.11	0.51
3:L:2122:LEU:HB3	3:L:2123:PRO:HD3	1.92	0.51
6:N:19:DA:C2	6:N:20:DG:C4	2.99	0.51
6:N:20:DG:C2	6:N:21:DA:C4	2.99	0.51
9:X:682:ILE:HA	9:X:730:PHE:HZ	1.76	0.51
9:Y:694:GLY:O	9:Y:718:HIS:NE2	2.44	0.51
1:A:95:ASN:ND2	1:A:99:PHE:H	2.06	0.50
3:C:487:LEU:HA	3:C:490:ILE:HG22	1.93	0.50
3:C:723:ASP:OD2	3:C:981:ARG:NH2	2.43	0.50
3:C:1919:CYS:O	3:C:1923:PHE:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2726:LEU:HD11	3:C:2729:ARG:HH22	1.76	0.50
6:E:19:DA:H2''	6:E:20:DG:H8	1.75	0.50
1:J:151:ALA:HB2	1:J:193:LEU:HD11	1.93	0.50
3:L:732:PHE:CZ	3:L:736:LEU:HD21	2.46	0.50
3:L:1410:PRO:O	3:L:1411:TYR:HB3	2.10	0.50
3:L:1919:CYS:O	3:L:1923:PHE:HB2	2.10	0.50
3:L:3033:GLU:OE2	3:L:3036:TYR:HE2	1.94	0.50
6:N:9:DT:H2''	6:N:10:DA:C8	2.45	0.50
9:X:682:ILE:O	9:X:686:GLY:N	2.44	0.50
1:A:151:ALA:HB2	1:A:193:LEU:HD11	1.93	0.50
2:B:74:TYR:HA	2:B:109:ASP:OD1	2.11	0.50
3:C:50:VAL:O	3:C:54:GLN:HG2	2.11	0.50
3:C:461:ILE:O	3:C:464:VAL:HG12	2.11	0.50
3:C:732:PHE:CZ	3:C:736:LEU:HD21	2.46	0.50
3:C:1840:PHE:HD2	3:C:1880:MET:HB3	1.75	0.50
3:C:1862:THR:O	3:C:1865:THR:OG1	2.24	0.50
3:C:2285:LEU:HB3	3:C:2329:TYR:CD2	2.45	0.50
3:C:2443:MET:O	3:C:2446:LEU:HD23	2.11	0.50
3:C:3325:ASP:O	3:C:3328:ILE:HG22	2.10	0.50
3:C:3588:TRP:CH2	3:C:3613:MET:HG2	2.46	0.50
3:C:4040:PRO:HA	3:C:4043:LYS:CG	2.40	0.50
3:L:1037:LEU:HD22	3:L:1088:GLU:HB3	1.93	0.50
3:L:1082:PHE:CZ	3:L:1134:LEU:HG	2.46	0.50
3:L:3380:ARG:O	3:L:3383:GLN:HG3	2.10	0.50
3:L:3382:PHE:HZ	3:L:3445:LEU:HD12	1.76	0.50
1:A:35:ARG:CD	1:A:80:ARG:HG2	2.41	0.50
1:A:167:MET:HA	1:A:201:ASP:O	2.11	0.50
2:B:457:LEU:HD13	2:B:529:PRO:HB2	1.94	0.50
3:C:393:LYS:HA	3:C:396:PHE:CE1	2.46	0.50
3:C:671:SER:HA	3:C:674:VAL:HG12	1.93	0.50
3:C:929:ALA:O	3:C:932:GLU:HG3	2.11	0.50
3:C:1379:PRO:O	3:C:1384:PHE:HB3	2.11	0.50
3:C:1564:SER:O	3:C:1568:ASN:ND2	2.44	0.50
3:C:2418:LYS:O	3:C:2420:PHE:N	2.43	0.50
3:C:2556:SER:HB2	3:C:2799:GLN:HA	1.93	0.50
3:C:3992:ARG:NH2	3:C:4052:ALA:O	2.45	0.50
5:D:7:DA:C4	5:D:8:DA:C8	3.00	0.50
7:F:117:GLU:H	7:F:117:GLU:CD	2.15	0.50
2:K:478:PRO:C	2:K:480:THR:H	2.13	0.50
2:K:551:GLN:NE2	3:L:208:MET:HB2	2.25	0.50
3:L:421:LEU:HA	3:L:424:LEU:HG	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:630:CYS:HA	3:L:633:ILE:HG22	1.93	0.50
3:L:723:ASP:OD2	3:L:981:ARG:NH2	2.43	0.50
3:L:1102:GLU:HG3	3:L:1154:PRO:CA	2.36	0.50
3:L:1815:THR:HG22	3:L:1819:PHE:CE2	2.46	0.50
3:L:3255:ALA:O	3:L:3259:LEU:HD23	2.11	0.50
6:N:19:DA:H2''	6:N:20:DG:H8	1.75	0.50
6:N:23:DT:C2	6:N:24:DT:C4	3.00	0.50
1:A:206:LYS:HA	1:A:234:GLU:O	2.11	0.50
2:B:405:VAL:O	2:B:423:GLN:NE2	2.44	0.50
3:C:334:HIS:C	3:C:336:ASN:H	2.15	0.50
3:C:462:VAL:HG11	3:C:540:MET:HG3	1.94	0.50
3:C:1125:GLN:OE1	3:C:1125:GLN:N	2.39	0.50
3:C:1415:LEU:HA	3:C:1419:LEU:HD13	1.93	0.50
3:C:3325:ASP:O	3:C:3329:LEU:HG	2.11	0.50
3:C:3343:SER:OG	3:C:3344:GLU:N	2.45	0.50
3:C:3535:ILE:HG12	3:C:3797:THR:HA	1.93	0.50
3:C:3698:GLU:HB3	3:C:3718:ARG:HD2	1.94	0.50
5:D:27:DA:H1'	5:D:28:DC:H5''	1.92	0.50
1:J:446:MET:HG2	1:J:447:PRO:HD2	1.92	0.50
3:L:178:LEU:HB3	3:L:196:LEU:HD11	1.94	0.50
3:L:197:PHE:O	3:L:201:LEU:HD23	2.11	0.50
3:L:393:LYS:HA	3:L:396:PHE:CE1	2.46	0.50
3:L:2285:LEU:HB3	3:L:2329:TYR:CD2	2.45	0.50
3:L:2295:GLN:CD	3:L:2295:GLN:H	2.15	0.50
3:L:3141:PHE:CD1	3:L:3189:PHE:CD1	2.99	0.50
3:L:3141:PHE:CG	3:L:3189:PHE:CD1	3.00	0.50
3:L:3940:ILE:HG23	10:L:4201:ADP:N7	2.27	0.50
3:L:3992:ARG:NH2	3:L:4052:ALA:O	2.45	0.50
9:Y:682:ILE:HA	9:Y:730:PHE:HZ	1.76	0.50
2:B:233:LYS:HD2	8:I:299:PHE:CE1	2.46	0.50
3:C:178:LEU:HB3	3:C:196:LEU:HD11	1.94	0.50
3:C:879:MET:N	3:C:879:MET:SD	2.85	0.50
3:C:2094:MET:O	3:C:2098:THR:HG23	2.12	0.50
3:C:2496:GLN:HG3	3:C:2500:LYS:HE2	1.93	0.50
3:C:3033:GLU:OE2	3:C:3036:TYR:HE2	1.94	0.50
3:C:3340:ALA:HA	3:C:3343:SER:HB3	1.94	0.50
1:J:192:ASP:O	1:J:195:ASP:N	2.42	0.50
1:J:211:PHE:HB2	1:J:233:PHE:O	2.11	0.50
1:J:439:PHE:CD2	2:K:484:ASN:HA	2.46	0.50
3:L:406:ARG:NH2	3:L:407:VAL:HG12	2.26	0.50
3:L:406:ARG:HH21	3:L:407:VAL:HA	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:879:MET:N	3:L:879:MET:SD	2.85	0.50
3:L:1089:PHE:O	3:L:1093:GLU:HB2	2.12	0.50
3:L:1828:LEU:HA	3:L:1831:CYS:SG	2.52	0.50
3:L:1913:LYS:HE3	3:L:1955:VAL:HG11	1.93	0.50
3:L:2262:GLY:O	3:L:2264:ASP:N	2.44	0.50
3:L:2726:LEU:HD11	3:L:2729:ARG:HH22	1.76	0.50
3:L:3327:ASN:HD22	3:L:3384:HIS:HE1	1.59	0.50
3:L:3588:TRP:CH2	3:L:3613:MET:HG2	2.46	0.50
3:L:3626:GLY:HA3	3:L:3629:ARG:HB2	1.94	0.50
7:P:117:GLU:CD	7:P:117:GLU:H	2.14	0.50
9:X:681:ARG:HH21	9:X:731:LYS:HE3	1.77	0.50
1:A:113:ALA:C	1:A:115:ARG:H	2.13	0.50
2:B:131:HIS:CD2	8:I:297:GLY:CA	2.95	0.50
3:C:1154:PRO:HG3	3:C:1163:LEU:HD21	1.94	0.50
3:C:2891:ARG:HG3	3:C:2891:ARG:NH2	2.25	0.50
3:C:3141:PHE:CD1	3:C:3189:PHE:CD1	2.99	0.50
3:C:3726:VAL:HG21	3:C:3736:LYS:HD2	1.94	0.50
3:C:3759:ARG:HD2	3:C:3763:ARG:HH21	1.76	0.50
3:L:22:ALA:O	3:L:24:ARG:N	2.43	0.50
3:L:410:MET:N	3:L:411:PRO:HD2	2.27	0.50
3:L:3343:SER:OG	3:L:3344:GLU:N	2.45	0.50
3:L:3406:ALA:O	3:L:3410:ILE:HG12	2.10	0.50
3:L:3786:LEU:HD21	3:L:3983:ILE:HD11	1.94	0.50
1:A:347:LEU:HD12	1:A:397:LEU:O	2.11	0.50
1:A:422:ASP:N	1:A:422:ASP:OD1	2.42	0.50
2:B:238:LYS:HD3	2:B:239:LYS:O	2.11	0.50
3:C:298:LEU:HD12	3:C:316:LEU:HD11	1.94	0.50
3:C:414:LEU:HA	3:C:417:VAL:HG12	1.93	0.50
3:C:938:VAL:HA	3:C:941:MET:CE	2.42	0.50
3:C:949:PRO:HB3	3:L:2579:HIS:CB	2.39	0.50
3:C:1089:PHE:O	3:C:1093:GLU:HB2	2.11	0.50
3:C:1112:ALA:CB	3:C:1183:CYS:HB2	2.41	0.50
3:C:1913:LYS:HE3	3:C:1955:VAL:HG11	1.93	0.50
7:F:187:LYS:HE2	7:F:187:LYS:HA	1.92	0.50
2:K:348:SER:HB3	2:K:388:ASP:OD1	2.11	0.50
2:K:531:SER:HA	2:K:534:LYS:HZ3	1.76	0.50
3:L:1263:ALA:O	3:L:1266:CYS:N	2.45	0.50
3:L:2496:GLN:HG3	3:L:2500:LYS:HE2	1.93	0.50
3:L:3340:ALA:HA	3:L:3343:SER:HB3	1.93	0.50
3:L:3700:GLU:HA	3:L:3718:ARG:HA	1.93	0.50
1:A:211:PHE:HB2	1:A:233:PHE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:490:ILE:HD11	3:C:524:TYR:HA	1.94	0.50
3:C:630:CYS:HA	3:C:633:ILE:HG22	1.93	0.50
3:C:1261:LEU:HB2	3:C:1337:VAL:HG22	1.93	0.50
3:C:1298:LEU:HA	3:C:1302:ALA:HB2	1.94	0.50
3:C:2281:MET:HA	3:C:2288:TYR:OH	2.12	0.50
3:C:2877:SER:HA	3:C:2929:LEU:HD21	1.93	0.50
3:C:3156:PRO:HD2	3:C:3157:LEU:N	2.23	0.50
6:E:20:DG:C2	6:E:21:DA:C4	3.00	0.50
3:L:50:VAL:O	3:L:54:GLN:HG2	2.11	0.50
3:L:2289:ASP:N	3:L:2290:PRO:HD3	2.27	0.50
3:L:3452:LYS:HD2	3:L:3455:LYS:NZ	2.27	0.50
3:L:3726:VAL:HG21	3:L:3736:LYS:HD2	1.94	0.50
3:L:3729:MET:HG2	3:L:3735:PRO:HG2	1.93	0.50
3:L:3912:CYS:HB3	3:L:3961:PHE:CE1	2.46	0.50
3:L:3921:GLY:HA3	3:L:3949:ALA:HB2	1.93	0.50
2:B:35:LYS:NZ	2:B:95:GLU:HA	2.26	0.50
3:C:406:ARG:HH21	3:C:407:VAL:HA	1.76	0.50
3:C:575:ILE:O	3:C:579:LEU:HG	2.12	0.50
3:C:579:LEU:HD22	3:C:619:ASP:OD1	2.11	0.50
3:C:1553:PHE:HE2	3:C:1558:TYR:HB2	1.77	0.50
3:C:1828:LEU:HA	3:C:1831:CYS:SG	2.52	0.50
3:C:2128:PHE:O	3:C:2132:LYS:HB2	2.12	0.50
3:C:2578:GLU:HG2	3:C:2579:HIS:CD2	2.47	0.50
3:C:3436:SER:O	3:C:3440:GLN:NE2	2.45	0.50
3:C:3502:MET:SD	3:C:3502:MET:N	2.85	0.50
3:C:3666:LEU:O	3:C:3670:MET:HG2	2.12	0.50
3:C:3718:ARG:NH2	3:C:3743:HIS:CD2	2.80	0.50
3:C:4092:GLN:N	3:C:4092:GLN:OE1	2.45	0.50
1:J:35:ARG:CD	1:J:80:ARG:HG2	2.41	0.50
1:J:58:THR:O	1:J:62:MET:N	2.45	0.50
2:K:446:PRO:HB2	2:K:451:LEU:HD21	1.92	0.50
3:L:414:LEU:HA	3:L:417:VAL:HG12	1.93	0.50
3:L:461:ILE:O	3:L:464:VAL:HG12	2.11	0.50
3:L:789:TYR:HB3	3:L:793:LEU:HD23	1.94	0.50
3:L:1379:PRO:O	3:L:1384:PHE:HB3	2.11	0.50
3:L:1913:LYS:O	3:L:1916:ILE:N	2.41	0.50
3:L:1959:LEU:HD21	3:L:2107:SER:HB2	1.94	0.50
3:L:2281:MET:HA	3:L:2288:TYR:OH	2.12	0.50
3:L:3141:PHE:CD1	3:L:3189:PHE:HD1	2.30	0.50
3:L:3815:LEU:HD11	3:L:3890:MET:HE1	1.94	0.50
7:P:187:LYS:HE2	7:P:187:LYS:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:ARG:NH2	1:A:488:ARG:NH1	2.60	0.49
3:C:410:MET:N	3:C:411:PRO:HD2	2.27	0.49
3:C:861:SER:O	3:C:3167:ARG:NH1	2.34	0.49
3:C:3236:PHE:CE1	3:C:3265:GLU:HB3	2.46	0.49
3:C:3940:ILE:HG23	10:C:4201:ADP:N7	2.27	0.49
6:E:4:DT:O2	6:E:5:DA:H1'	2.12	0.49
1:J:384:ALA:HB1	2:K:454:VAL:HG21	1.92	0.49
3:L:487:LEU:HA	3:L:490:ILE:HG22	1.93	0.49
3:L:778:ILE:HD11	3:L:3163:THR:HG22	1.95	0.49
3:L:1298:LEU:HA	3:L:1302:ALA:HB2	1.94	0.49
3:L:1796:GLY:HA2	3:L:1799:GLU:OE2	2.12	0.49
3:L:1866:GLN:OE1	3:L:1866:GLN:N	2.43	0.49
3:L:3508:LYS:HG3	3:L:3509:ASP:N	2.27	0.49
3:L:3718:ARG:NH2	3:L:3743:HIS:CD2	2.80	0.49
3:L:3749:PRO:HG2	3:L:3805:TRP:HB3	1.94	0.49
6:N:26:DT:H2'	6:N:27:DT:C6	2.47	0.49
3:C:1529:VAL:HG11	3:C:1581:GLU:CD	2.33	0.49
3:C:2281:MET:HE3	3:C:2326:ILE:HA	1.94	0.49
3:C:2289:ASP:N	3:C:2290:PRO:HD3	2.27	0.49
3:C:2589:TYR:CD1	3:C:2777:HIS:HB2	2.47	0.49
3:C:2916:LEU:HG	3:C:2918:PRO:HD2	1.93	0.49
3:C:3452:LYS:HD2	3:C:3455:LYS:NZ	2.27	0.49
2:K:238:LYS:HD3	2:K:239:LYS:O	2.11	0.49
3:L:1479:VAL:CG1	3:L:1518:ALA:HA	2.42	0.49
3:L:1553:PHE:HE2	3:L:1558:TYR:HB2	1.77	0.49
3:L:2345:VAL:O	3:L:2349:LEU:HD23	2.12	0.49
3:L:3666:LEU:O	3:L:3670:MET:HG2	2.12	0.49
2:B:348:SER:HB3	2:B:388:ASP:OD1	2.11	0.49
3:C:489:ARG:NH1	3:C:489:ARG:HB2	2.27	0.49
3:C:490:ILE:HD13	3:C:527:TYR:CD1	2.48	0.49
3:C:762:TYR:CE2	3:C:764:PRO:HG2	2.47	0.49
3:C:1760:GLU:O	3:C:1763:THR:OG1	2.17	0.49
3:C:1864:ASP:O	3:C:1867:ILE:HG22	2.12	0.49
3:C:2345:VAL:O	3:C:2349:LEU:HD23	2.12	0.49
3:C:3252:PHE:HZ	3:C:3286:CYS:HG	1.57	0.49
3:C:3626:GLY:HA3	3:C:3629:ARG:HB2	1.94	0.49
3:C:3687:MET:HG3	3:C:3722:PHE:CZ	2.48	0.49
3:C:3881:ASP:H	3:C:3969:ASN:HD22	1.58	0.49
1:J:247:ARG:NH2	1:J:488:ARG:NH1	2.60	0.49
1:J:303:PHE:HB2	1:J:309:GLY:O	2.13	0.49
1:J:309:GLY:O	1:J:310:LEU:HD23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:LEU:HD12	1:J:397:LEU:O	2.11	0.49
3:L:888:ARG:HH11	3:L:3932:MET:HG2	1.75	0.49
3:L:1154:PRO:HG3	3:L:1163:LEU:HD21	1.94	0.49
3:L:1839:PHE:O	3:L:1843:ILE:HG12	2.12	0.49
3:L:2228:ARG:HD2	5:M:29:DA:H3'	1.94	0.49
3:L:2887:PRO:HA	3:L:2890:ILE:HD13	1.94	0.49
3:L:3701:ILE:HG23	3:L:3750:PHE:CE2	2.48	0.49
3:L:4003:ASP:O	3:L:4006:VAL:HG23	2.12	0.49
5:M:7:DA:C4	5:M:8:DA:C8	3.00	0.49
2:B:348:SER:OG	2:B:349:SER:N	2.46	0.49
3:C:197:PHE:O	3:C:201:LEU:HD23	2.12	0.49
3:C:1037:LEU:HD22	3:C:1088:GLU:HB3	1.93	0.49
3:C:1411:TYR:CD1	3:C:1414:ILE:HD13	2.46	0.49
3:C:1760:GLU:O	3:C:1764:GLU:OE1	2.30	0.49
3:C:2286:PRO:HD2	3:C:2288:TYR:OH	2.13	0.49
3:C:2602:LEU:HB2	3:C:2605:MET:HE3	1.95	0.49
3:C:2886:GLN:O	3:C:2890:ILE:HD12	2.13	0.49
3:C:3701:ILE:HG23	3:C:3750:PHE:CE2	2.48	0.49
1:J:167:MET:HA	1:J:201:ASP:O	2.11	0.49
1:J:357:LYS:HB2	1:J:360:HIS:NE2	2.26	0.49
1:J:487:PHE:O	1:J:490:LEU:HB3	2.13	0.49
2:K:35:LYS:NZ	2:K:95:GLU:HA	2.27	0.49
3:L:201:LEU:HD21	3:L:248:ILE:HD11	1.94	0.49
3:L:258:PRO:HG3	3:L:300:TRP:CZ3	2.47	0.49
3:L:342:MET:HA	3:L:345:PHE:CZ	2.47	0.49
3:L:489:ARG:HB2	3:L:489:ARG:NH1	2.27	0.49
3:L:1112:ALA:CB	3:L:1183:CYS:HB2	2.42	0.49
3:L:2274:ILE:CD1	3:L:2306:ASN:HD21	2.25	0.49
3:L:2877:SER:HA	3:L:2929:LEU:HD21	1.93	0.49
3:L:2886:GLN:O	3:L:2890:ILE:HD12	2.13	0.49
3:L:3042:PRO:HB3	3:L:3082:TYR:OH	2.12	0.49
3:L:3791:TYR:OH	3:L:3940:ILE:O	2.26	0.49
2:B:280:ASP:OD1	2:B:281:ALA:N	2.45	0.49
2:B:413:LYS:O	2:B:416:TYR:N	2.42	0.49
3:C:99:LYS:C	3:C:101:ALA:H	2.15	0.49
3:C:258:PRO:HG3	3:C:300:TRP:CZ3	2.47	0.49
3:C:741:ILE:HG23	3:C:748:TYR:CD2	2.48	0.49
3:C:889:GLU:HB3	3:C:891:ARG:NH2	2.28	0.49
3:C:1839:PHE:O	3:C:1843:ILE:HG12	2.12	0.49
3:C:2443:MET:HG3	3:C:2479:TRP:CE3	2.48	0.49
3:C:3141:PHE:CG	3:C:3189:PHE:CD1	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3584:LEU:HD21	3:C:3629:ARG:NH2	2.28	0.49
3:C:3786:LEU:HD21	3:C:3983:ILE:HD11	1.93	0.49
7:G:134:ILE:HG22	7:G:138:GLN:NE2	2.25	0.49
2:K:457:LEU:HD13	2:K:529:PRO:HB2	1.94	0.49
3:L:298:LEU:HD12	3:L:316:LEU:HD11	1.94	0.49
3:L:364:ARG:NE	3:L:415:GLN:HG2	2.28	0.49
3:L:490:ILE:HD13	3:L:527:TYR:CD1	2.48	0.49
3:L:1141:LYS:O	3:L:1145:LEU:HB2	2.12	0.49
3:L:1261:LEU:HB2	3:L:1337:VAL:HG22	1.93	0.49
3:L:1864:ASP:O	3:L:1867:ILE:HG22	2.12	0.49
3:L:1913:LYS:H	3:L:1913:LYS:HD2	1.78	0.49
3:L:2146:LEU:O	3:L:2149:LEU:HB3	2.13	0.49
3:L:2286:PRO:HD2	3:L:2288:TYR:OH	2.13	0.49
3:L:3296:GLN:O	3:L:3299:THR:OG1	2.21	0.49
3:L:3499:ILE:HD11	3:L:3529:ILE:HD13	1.94	0.49
3:L:3531:TYR:O	3:L:3534:ILE:HG22	2.13	0.49
3:L:3557:ARG:O	3:L:3560:SER:OG	2.30	0.49
7:O:187:LYS:HZ2	7:P:184:LEU:HD22	1.77	0.49
1:A:269:ILE:HG21	1:A:381:LEU:HD22	1.94	0.49
1:A:416:GLN:HG3	2:B:354:ARG:NH2	2.27	0.49
2:B:489:ARG:NH1	2:B:493:CYS:HB2	2.28	0.49
3:C:342:MET:HA	3:C:345:PHE:CZ	2.47	0.49
3:C:421:LEU:HA	3:C:424:LEU:HG	1.93	0.49
3:C:789:TYR:HB3	3:C:793:LEU:HD23	1.94	0.49
3:C:1225:GLU:O	3:C:1235:ILE:N	2.39	0.49
3:C:2157:PHE:CD2	3:C:2164:TRP:HZ3	2.31	0.49
3:C:2169:LEU:HD11	3:C:2215:LEU:HG	1.93	0.49
3:C:2274:ILE:CD1	3:C:2306:ASN:HD21	2.24	0.49
3:C:2295:GLN:CD	3:C:2295:GLN:H	2.15	0.49
3:C:2371:PHE:CD2	3:C:2373:PRO:HD2	2.47	0.49
3:C:2579:HIS:CB	3:L:949:PRO:HB3	2.41	0.49
3:C:3531:TYR:HE1	3:C:3568:ILE:HG23	1.78	0.49
3:C:3687:MET:HG3	3:C:3722:PHE:HZ	1.77	0.49
3:C:3815:LEU:HD11	3:C:3890:MET:HE1	1.94	0.49
3:C:4003:ASP:O	3:C:4006:VAL:HG23	2.12	0.49
6:E:23:DT:C2	6:E:24:DT:C4	3.00	0.49
1:J:72:ILE:HA	1:J:75:ILE:HG12	1.94	0.49
1:J:416:GLN:HG3	2:K:354:ARG:NH2	2.27	0.49
2:K:242:ARG:NH2	2:K:243:HIS:H	2.11	0.49
2:K:280:ASP:OD1	2:K:281:ALA:N	2.45	0.49
3:L:1015:ASP:HA	3:L:1018:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1134:LEU:HA	3:L:1137:ILE:HG12	1.94	0.49
3:L:1834:ASP:HA	3:L:1837:ARG:CZ	2.43	0.49
3:L:2157:PHE:CD2	3:L:2164:TRP:HZ3	2.30	0.49
3:L:2556:SER:HB2	3:L:2799:GLN:HA	1.93	0.49
1:A:38:LEU:HD11	1:A:167:MET:HG2	1.94	0.49
1:A:309:GLY:O	1:A:310:LEU:HD23	2.13	0.49
1:A:439:PHE:CD2	2:B:484:ASN:HA	2.46	0.49
2:B:68:LEU:O	2:B:74:TYR:HB2	2.13	0.49
3:C:1141:LYS:O	3:C:1145:LEU:HB2	2.12	0.49
3:C:1195:VAL:HG23	3:C:1196:PRO:HD3	1.94	0.49
3:C:1479:VAL:CG1	3:C:1518:ALA:HA	2.42	0.49
3:C:1920:TYR:O	3:C:1923:PHE:HB3	2.12	0.49
3:C:3729:MET:HG2	3:C:3735:PRO:HG2	1.93	0.49
3:C:3791:TYR:OH	3:C:3940:ILE:O	2.26	0.49
3:C:4076:ASP:OD1	3:C:4077:TYR:N	2.46	0.49
6:E:26:DT:H2'	6:E:27:DT:C6	2.47	0.49
2:K:68:LEU:O	2:K:74:TYR:HB2	2.13	0.49
3:L:462:VAL:HG11	3:L:540:MET:HG3	1.93	0.49
3:L:575:ILE:O	3:L:579:LEU:HG	2.12	0.49
3:L:2371:PHE:CD2	3:L:2373:PRO:HD2	2.47	0.49
3:L:2443:MET:HG3	3:L:2479:TRP:CE3	2.48	0.49
3:L:2454:LEU:O	3:L:2458:VAL:HG23	2.13	0.49
3:L:3044:MET:O	3:L:3047:SER:OG	2.31	0.49
3:L:3436:SER:O	3:L:3440:GLN:NE2	2.45	0.49
3:L:4076:ASP:OD1	3:L:4077:TYR:N	2.46	0.49
3:L:4092:GLN:OE1	3:L:4092:GLN:N	2.45	0.49
1:A:49:PHE:HZ	1:A:128:GLN:O	1.96	0.49
1:A:487:PHE:O	1:A:490:LEU:HB3	2.13	0.49
2:B:340:PHE:HA	2:B:394:ARG:O	2.13	0.49
2:B:352:GLN:OE1	2:B:354:ARG:NH1	2.46	0.49
3:C:51:LEU:HD11	3:C:96:MET:SD	2.52	0.49
3:C:910:PHE:HZ	3:C:2808:LEU:HA	1.77	0.49
3:C:3449:LYS:O	3:C:3452:LYS:HB3	2.13	0.49
3:C:3508:LYS:HG3	3:C:3509:ASP:N	2.27	0.49
3:C:3749:PRO:HG2	3:C:3805:TRP:HB3	1.94	0.49
8:H:97:CYS:SG	8:H:104:LEU:HD11	2.53	0.49
1:J:376:ILE:HB	2:K:540:ILE:HB	1.95	0.49
2:K:348:SER:OG	2:K:349:SER:N	2.46	0.49
3:L:490:ILE:HD11	3:L:524:TYR:HA	1.94	0.49
3:L:762:TYR:CE2	3:L:764:PRO:HG2	2.47	0.49
3:L:789:TYR:HA	3:L:792:ILE:CG2	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1920:TYR:O	3:L:1923:PHE:HB3	2.12	0.49
3:L:2598:ARG:O	3:L:2598:ARG:NE	2.42	0.49
3:L:3535:ILE:HG12	3:L:3797:THR:HA	1.93	0.49
3:L:4038:TRP:O	3:L:4041:ARG:HG2	2.13	0.49
1:A:493:LEU:CD1	9:X:708:ARG:HG3	2.42	0.49
3:C:16:GLN:CD	3:C:63:PHE:HB2	2.33	0.49
3:C:364:ARG:NE	3:C:415:GLN:HG2	2.28	0.49
3:C:395:MET:HE1	3:C:410:MET:HB3	1.95	0.49
3:C:478:CYS:O	3:C:481:THR:OG1	2.23	0.49
3:C:1834:ASP:HA	3:C:1837:ARG:CZ	2.43	0.49
3:C:3327:ASN:HD22	3:C:3384:HIS:HE1	1.59	0.49
3:C:3880:ALA:HB2	3:C:3965:ARG:HH22	1.78	0.49
2:K:447:THR:N	2:K:450:GLN:OE1	2.44	0.49
3:L:51:LEU:HD11	3:L:96:MET:SD	2.52	0.49
3:L:664:SER:OG	3:L:665:GLY:N	2.46	0.49
3:L:2580:PRO:HD3	3:L:2784:GLN:OE1	2.13	0.49
3:L:3929:MET:HB2	3:L:3940:ILE:CD1	2.36	0.49
1:A:72:ILE:HA	1:A:75:ILE:HG12	1.94	0.49
3:C:406:ARG:NE	3:C:448:GLN:OE1	2.46	0.49
3:C:778:ILE:HD11	3:C:3163:THR:HG22	1.94	0.49
3:C:972:LEU:HD23	3:C:984:TYR:CE2	2.48	0.49
3:C:2257:PHE:HE1	3:C:2302:ALA:HB3	1.78	0.49
3:C:2542:LEU:HA	3:C:2545:LEU:HD23	1.95	0.49
3:C:2580:PRO:HD3	3:C:2784:GLN:OE1	2.13	0.49
3:C:3169:PRO:HB2	3:C:3179:TRP:CZ3	2.48	0.49
3:L:972:LEU:HD23	3:L:984:TYR:CE2	2.48	0.49
3:L:1760:GLU:O	3:L:1763:THR:OG1	2.17	0.49
3:L:1890:HIS:CE1	3:L:1955:VAL:HA	2.48	0.49
3:L:3452:LYS:HD2	3:L:3455:LYS:HZ1	1.78	0.49
5:M:19:DA:C4	5:M:20:DG:C8	3.01	0.49
2:B:242:ARG:NH2	2:B:243:HIS:H	2.11	0.48
2:B:465:LYS:HG2	2:B:474:GLU:HB2	1.95	0.48
3:C:2185:MET:HE3	3:C:2189:ILE:HD11	1.94	0.48
3:C:2228:ARG:HD2	5:D:29:DA:H3'	1.94	0.48
3:C:2581:LEU:CD1	3:C:2783:ILE:HG13	2.43	0.48
3:C:3065:ILE:HD12	3:C:3089:LEU:HD22	1.94	0.48
3:C:3141:PHE:CD1	3:C:3189:PHE:HD1	2.31	0.48
1:J:206:LYS:NZ	1:J:235:GLU:HB2	2.28	0.48
3:L:910:PHE:HZ	3:L:2808:LEU:HA	1.78	0.48
3:L:1909:ASN:O	3:L:1913:LYS:NZ	2.43	0.48
1:A:264:ASN:OD1	1:A:267:ILE:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ILE:HB	2:B:540:ILE:HB	1.95	0.48
3:C:252:VAL:O	3:C:256:ILE:HG12	2.13	0.48
3:C:2105:HIS:HB2	3:C:2156:VAL:HG13	1.95	0.48
7:G:134:ILE:HG23	7:G:138:GLN:NE2	2.07	0.48
3:L:99:LYS:C	3:L:101:ALA:H	2.15	0.48
3:L:334:HIS:C	3:L:336:ASN:H	2.15	0.48
3:L:1760:GLU:O	3:L:1764:GLU:OE1	2.30	0.48
3:L:2169:LEU:HD11	3:L:2215:LEU:HG	1.94	0.48
3:L:3465:PHE:HD2	3:L:3498:TRP:CZ2	2.30	0.48
1:A:312:LEU:HB3	1:A:313:PRO:HD2	1.95	0.48
3:C:201:LEU:HD21	3:C:248:ILE:HD11	1.95	0.48
3:C:479:ILE:HA	3:C:482:VAL:HG12	1.95	0.48
3:C:1959:LEU:HD21	3:C:2107:SER:HB2	1.95	0.48
3:C:2887:PRO:HA	3:C:2890:ILE:HD13	1.94	0.48
3:C:3925:LEU:HD11	3:C:4128:MET:SD	2.53	0.48
3:C:4038:TRP:O	3:C:4041:ARG:HG2	2.13	0.48
5:D:27:DA:C4	5:D:28:DC:C5	3.02	0.48
1:J:193:LEU:HA	1:J:196:THR:HG22	1.95	0.48
1:J:279:LYS:HB2	2:K:357:MET:SD	2.54	0.48
1:J:312:LEU:HB3	1:J:313:PRO:HD2	1.95	0.48
2:K:47:PHE:HZ	2:K:495:LEU:HB2	1.77	0.48
3:L:16:GLN:CD	3:L:63:PHE:HB2	2.33	0.48
3:L:938:VAL:HA	3:L:941:MET:CE	2.42	0.48
3:L:1921:ASP:OD1	3:L:1922:ALA:N	2.47	0.48
3:L:2128:PHE:O	3:L:2132:LYS:HB2	2.12	0.48
3:L:2311:ARG:HD3	3:L:2312:TYR:CE1	2.48	0.48
3:L:2589:TYR:CD1	3:L:2777:HIS:HB2	2.47	0.48
3:L:3496:ILE:HD11	3:L:3528:ALA:CB	2.43	0.48
3:L:3659:PHE:O	3:L:3663:THR:HG23	2.13	0.48
3:L:3687:MET:HG3	3:L:3722:PHE:HZ	1.77	0.48
7:P:140:LYS:HE2	7:P:140:LYS:HA	1.95	0.48
9:Y:681:ARG:HH21	9:Y:731:LYS:HE3	1.77	0.48
1:A:58:THR:O	1:A:62:MET:N	2.45	0.48
1:A:303:PHE:HB2	1:A:309:GLY:O	2.13	0.48
1:A:392:LYS:HZ2	2:B:459:ASP:CG	2.16	0.48
3:C:13:LEU:HD21	3:C:3070:HIS:HD2	1.78	0.48
3:C:333:MET:HB3	3:C:337:LYS:HZ3	1.77	0.48
3:C:1015:ASP:HA	3:C:1018:VAL:HG12	1.94	0.48
3:C:1134:LEU:HA	3:C:1137:ILE:HG12	1.94	0.48
3:C:2454:LEU:O	3:C:2458:VAL:HG23	2.13	0.48
3:C:2503:LYS:O	3:C:2507:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3044:MET:O	3:C:3047:SER:OG	2.31	0.48
2:K:340:PHE:HA	2:K:394:ARG:O	2.13	0.48
3:L:13:LEU:HD21	3:L:3070:HIS:HD2	1.78	0.48
3:L:741:ILE:HG23	3:L:748:TYR:CD2	2.48	0.48
3:L:889:GLU:HB3	3:L:891:ARG:NH2	2.28	0.48
3:L:1840:PHE:O	3:L:1844:VAL:HB	2.14	0.48
3:L:2281:MET:HE3	3:L:2326:ILE:HA	1.94	0.48
3:L:2578:GLU:HG2	3:L:2579:HIS:CD2	2.47	0.48
3:L:3247:ARG:HG2	3:L:3247:ARG:HH11	1.79	0.48
3:L:3584:LEU:HD21	3:L:3629:ARG:NH2	2.28	0.48
3:L:3717:VAL:HG23	3:L:3744:ASP:H	1.78	0.48
6:N:6:DA:H8	6:N:6:DA:O5'	1.96	0.48
1:A:142:SER:HA	1:A:182:LYS:CE	2.43	0.48
2:B:125:LYS:HG3	2:B:127:PHE:CE2	2.48	0.48
3:C:125:ILE:HB	3:C:126:PRO:HD3	1.96	0.48
3:C:220:LEU:HD22	3:C:267:VAL:HG13	1.95	0.48
3:C:1913:LYS:H	3:C:1913:LYS:HD2	1.78	0.48
3:C:1921:ASP:OD1	3:C:1922:ALA:N	2.47	0.48
3:C:2261:SER:O	3:C:2263:LYS:HE2	2.14	0.48
3:C:3042:PRO:HB3	3:C:3082:TYR:OH	2.12	0.48
3:C:3554:PHE:CZ	3:C:3558:ILE:HD11	2.48	0.48
3:C:3710:LYS:HZ1	3:C:3712:LEU:HD22	1.77	0.48
1:J:340:PHE:CE1	2:K:485:PRO:HB2	2.36	0.48
3:L:333:MET:HB3	3:L:337:LYS:HZ3	1.77	0.48
3:L:367:GLY:O	3:L:370:ALA:N	2.47	0.48
3:L:406:ARG:NE	3:L:448:GLN:OE1	2.46	0.48
3:L:745:VAL:HG22	3:L:746:ARG:H	1.79	0.48
3:L:1407:LYS:HA	3:L:1412:LYS:HE2	1.94	0.48
3:L:1529:VAL:HG11	3:L:1581:GLU:CD	2.33	0.48
3:L:1795:VAL:HG12	3:L:1799:GLU:OE1	2.14	0.48
3:L:2094:MET:O	3:L:2098:THR:HG23	2.12	0.48
3:L:3172:LYS:HE3	3:L:3248:LYS:HE2	1.95	0.48
3:L:3493:TRP:O	3:L:3496:ILE:HG22	2.14	0.48
3:L:3698:GLU:HB3	3:L:3718:ARG:HD2	1.93	0.48
6:N:4:DT:O2	6:N:5:DA:H1'	2.12	0.48
1:A:35:ARG:NH1	1:A:159:PHE:CG	2.81	0.48
3:C:664:SER:OG	3:C:665:GLY:N	2.46	0.48
3:C:1122:GLY:C	3:C:1124:ILE:H	2.17	0.48
3:C:1796:GLY:HA2	3:C:1799:GLU:OE2	2.12	0.48
3:C:3465:PHE:HD2	3:C:3498:TRP:CZ2	2.31	0.48
3:C:3499:ILE:HD11	3:C:3529:ILE:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:478:PRO:O	2:K:479:THR:OG1	2.23	0.48
3:L:252:VAL:O	3:L:256:ILE:HG12	2.13	0.48
3:L:532:ARG:HG3	3:L:532:ARG:NH1	2.28	0.48
3:L:1073:PHE:CE2	3:L:1121:LEU:HD13	2.49	0.48
3:L:1122:GLY:C	3:L:1124:ILE:H	2.17	0.48
3:L:1538:LEU:HD12	3:L:1553:PHE:CE2	2.49	0.48
3:L:2256:ILE:HG22	3:L:2260:PHE:CE2	2.49	0.48
3:L:3449:LYS:O	3:L:3452:LYS:HB3	2.13	0.48
3:L:3554:PHE:CZ	3:L:3558:ILE:HD11	2.48	0.48
3:L:3687:MET:HG3	3:L:3722:PHE:CZ	2.48	0.48
7:O:134:ILE:HG22	7:O:138:GLN:NE2	2.24	0.48
9:Y:729:CYS:SG	9:Y:736:VAL:HB	2.54	0.48
1:A:317:LYS:NZ	1:A:330:GLU:HA	2.28	0.48
3:C:264:ARG:HD3	3:C:264:ARG:HA	1.68	0.48
3:C:367:GLY:O	3:C:370:ALA:N	2.47	0.48
3:C:683:PHE:CD1	3:C:737:PRO:HG3	2.48	0.48
3:C:1816:ARG:HA	3:C:1819:PHE:CD2	2.48	0.48
3:C:2146:LEU:O	3:C:2149:LEU:HB3	2.13	0.48
3:C:3531:TYR:O	3:C:3534:ILE:HG22	2.13	0.48
3:C:3659:PHE:O	3:C:3663:THR:HG23	2.13	0.48
3:C:3712:LEU:O	3:C:3714:GLU:N	2.46	0.48
3:C:3717:VAL:HG23	3:C:3744:ASP:H	1.78	0.48
5:D:1:DT:N3	6:E:30:DA:N7	2.62	0.48
7:F:184:LEU:HD22	7:G:187:LYS:HZ2	1.78	0.48
1:J:269:ILE:HG21	1:J:381:LEU:HD22	1.94	0.48
1:J:329:LEU:HD21	2:K:493:CYS:SG	2.54	0.48
2:K:465:LYS:HG2	2:K:474:GLU:HB2	1.95	0.48
3:L:1110:SER:O	3:L:1113:LEU:N	2.47	0.48
3:L:1816:ARG:HA	3:L:1819:PHE:CD2	2.49	0.48
3:L:2105:HIS:HB2	3:L:2156:VAL:HG13	1.95	0.48
3:L:2261:SER:O	3:L:2263:LYS:HE2	2.14	0.48
3:L:2595:TRP:CE3	3:L:2764:LYS:HE2	2.49	0.48
3:L:3684:SER:HB3	3:L:3687:MET:HE2	1.96	0.48
3:L:3760:GLN:O	3:L:3763:ARG:HG2	2.14	0.48
1:A:206:LYS:NZ	1:A:235:GLU:HB2	2.28	0.48
2:B:47:PHE:CZ	2:B:495:LEU:HB2	2.49	0.48
2:B:164:PHE:HB3	2:B:227:PHE:HE1	1.79	0.48
2:B:281:ALA:O	2:B:283:THR:N	2.47	0.48
3:C:344:GLN:O	3:C:348:ILE:HG12	2.14	0.48
3:C:1487:VAL:HG21	3:C:1563:PHE:HE2	1.78	0.48
3:C:1935:GLU:HG2	3:C:1936:ARG:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:19:DA:C4	5:D:20:DG:C8	3.01	0.48
1:J:38:LEU:HD11	1:J:167:MET:HG2	1.94	0.48
2:K:66:ASN:ND2	2:K:74:TYR:O	2.44	0.48
3:L:125:ILE:HB	3:L:126:PRO:HD3	1.96	0.48
3:L:650:SER:O	3:L:653:LEU:N	2.45	0.48
3:L:1176:CYS:SG	3:L:1188:ILE:HG12	2.54	0.48
3:L:1333:SER:O	3:L:1336:THR:OG1	2.19	0.48
3:L:1705:GLY:O	3:L:1707:LEU:HD12	2.14	0.48
3:L:1834:ASP:HA	3:L:1837:ARG:NH1	2.29	0.48
3:L:2257:PHE:HE1	3:L:2302:ALA:HB3	1.78	0.48
3:L:2319:ALA:O	3:L:2323:LEU:HD23	2.14	0.48
3:L:2542:LEU:HA	3:L:2545:LEU:HD23	1.95	0.48
3:L:3065:ILE:HD12	3:L:3089:LEU:HD22	1.94	0.48
3:L:3230:LEU:O	3:L:3233:SER:OG	2.22	0.48
3:L:3542:PHE:CZ	3:L:3555:VAL:HG21	2.49	0.48
9:Y:663:GLU:HG3	9:Y:697:THR:HA	1.95	0.48
2:B:391:ALA:O	2:B:408:ALA:N	2.44	0.48
2:B:523:THR:O	2:B:527:GLN:NE2	2.47	0.48
3:C:89:LEU:HD23	3:C:89:LEU:HA	1.68	0.48
3:C:617:PRO:O	3:C:620:PHE:N	2.47	0.48
3:C:924:ARG:HD2	3:C:2597:PHE:CE1	2.48	0.48
3:C:935:HIS:HB2	3:C:984:TYR:CE1	2.46	0.48
3:C:1176:CYS:SG	3:C:1188:ILE:HG12	2.54	0.48
3:C:1890:HIS:CE1	3:C:1955:VAL:HA	2.48	0.48
3:C:1959:LEU:HA	3:C:1962:TYR:HB2	1.96	0.48
3:C:2595:TRP:CE3	3:C:2764:LYS:HE2	2.49	0.48
6:E:6:DA:H8	6:E:6:DA:O5'	1.96	0.48
2:K:392:ILE:HD13	2:K:407:VAL:HA	1.95	0.48
3:L:479:ILE:HA	3:L:482:VAL:HG12	1.95	0.48
3:L:617:PRO:O	3:L:620:PHE:N	2.47	0.48
3:L:990:GLN:NE2	3:L:2778:GLY:O	2.47	0.48
3:L:2256:ILE:O	3:L:2259:LYS:N	2.46	0.48
3:L:2503:LYS:O	3:L:2507:ILE:HG12	2.13	0.48
3:L:3880:ALA:HB2	3:L:3965:ARG:HH22	1.78	0.48
1:A:465:ILE:HG23	1:A:518:LEU:HD11	1.96	0.48
2:B:441:SER:HG	2:B:445:ALA:H	1.57	0.48
3:C:287:LEU:O	3:C:290:TYR:HD1	1.97	0.48
3:C:532:ARG:HG3	3:C:532:ARG:NH1	2.28	0.48
3:C:650:SER:O	3:C:653:LEU:N	2.45	0.48
3:C:828:LYS:HA	3:C:831:LEU:HD13	1.95	0.48
3:C:1017:ILE:HD13	3:C:1029:CYS:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1407:LYS:HA	3:C:1412:LYS:HE2	1.94	0.48
3:C:2936:TYR:HD2	3:C:2961:ALA:HA	1.79	0.48
3:C:3467:ARG:HA	3:C:3467:ARG:HD2	1.48	0.48
6:E:5:DA:H2'	6:E:6:DA:C8	2.49	0.48
1:J:35:ARG:NH1	1:J:159:PHE:CG	2.81	0.48
1:J:488:ARG:O	1:J:491:GLU:N	2.47	0.48
2:K:352:GLN:OE1	2:K:354:ARG:NH1	2.45	0.48
2:K:391:ALA:O	2:K:408:ALA:N	2.44	0.48
2:K:523:THR:O	2:K:527:GLN:NE2	2.47	0.48
3:L:287:LEU:O	3:L:290:TYR:HD1	1.97	0.48
3:L:683:PHE:CD1	3:L:737:PRO:HG3	2.48	0.48
3:L:1421:GLU:C	3:L:1422:LYS:HD3	2.35	0.48
3:L:1487:VAL:HG21	3:L:1563:PHE:HE2	1.79	0.48
3:L:2936:TYR:HD2	3:L:2961:ALA:HA	1.79	0.48
5:M:27:DA:C4	5:M:28:DC:C5	3.02	0.48
6:N:5:DA:H2'	6:N:6:DA:C8	2.49	0.48
1:A:193:LEU:HA	1:A:196:THR:HG22	1.95	0.47
1:A:340:PHE:CE1	2:B:485:PRO:HB2	2.36	0.47
1:A:462:MET:HA	1:A:465:ILE:HD13	1.96	0.47
3:C:290:TYR:CE2	3:C:291:VAL:HG13	2.49	0.47
3:C:1595:ALA:HA	3:C:1598:ASN:ND2	2.29	0.47
3:C:1638:PRO:HB2	3:C:1640:GLU:OE2	2.14	0.47
3:C:2256:ILE:O	3:C:2259:LYS:N	2.46	0.47
3:C:3045:ILE:O	3:C:3049:LEU:HD23	2.14	0.47
3:C:3496:ILE:HD11	3:C:3528:ALA:CB	2.43	0.47
3:C:3856:MET:CE	3:C:4071:ALA:HB1	2.44	0.47
3:C:3915:HIS:O	3:C:3919:GLY:N	2.46	0.47
6:E:11:DC:C2	6:E:12:DT:C5	3.02	0.47
1:J:317:LYS:NZ	1:J:330:GLU:HA	2.28	0.47
2:K:54:ILE:N	2:K:84:MET:O	2.33	0.47
2:K:125:LYS:HG3	2:K:127:PHE:CE2	2.48	0.47
2:K:281:ALA:O	2:K:283:THR:N	2.47	0.47
2:K:447:THR:O	2:K:451:LEU:HG	2.14	0.47
3:L:290:TYR:CE2	3:L:291:VAL:HG13	2.48	0.47
3:L:716:VAL:HG22	3:L:1120:SER:O	2.14	0.47
3:L:3712:LEU:O	3:L:3714:GLU:N	2.46	0.47
3:L:3925:LEU:HD11	3:L:4128:MET:SD	2.53	0.47
5:M:23:DG:C2	5:M:24:DA:C4	3.02	0.47
6:N:11:DC:C2	6:N:12:DT:C5	3.02	0.47
1:A:480:ASN:ND2	1:A:483:LEU:H	2.12	0.47
3:C:661:PRO:O	3:C:662:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:709:LYS:HG2	3:C:1388:ASP:CB	2.44	0.47
3:C:1073:PHE:CE2	3:C:1121:LEU:HD13	2.49	0.47
5:D:23:DG:H2'	5:D:24:DA:H8	1.78	0.47
8:H:298:LEU:HD23	2:K:164:PHE:CE2	2.49	0.47
2:K:486:ARG:NH1	6:N:19:DA:OP2	2.41	0.47
2:K:495:LEU:O	2:K:498:ALA:N	2.37	0.47
3:L:924:ARG:HD2	3:L:2597:PHE:CE1	2.48	0.47
3:L:1017:ILE:HD13	3:L:1029:CYS:CB	2.44	0.47
3:L:1388:ASP:OD1	3:L:1391:VAL:HB	2.15	0.47
3:L:1959:LEU:HA	3:L:1962:TYR:HB2	1.97	0.47
3:L:3531:TYR:HE1	3:L:3568:ILE:HG23	1.78	0.47
3:L:3915:HIS:O	3:L:3919:GLY:N	2.46	0.47
1:A:488:ARG:O	1:A:491:GLU:N	2.47	0.47
2:B:392:ILE:HD13	2:B:407:VAL:HA	1.95	0.47
3:C:1333:SER:O	3:C:1337:VAL:HG23	2.15	0.47
3:C:1538:LEU:HD12	3:C:1553:PHE:CE2	2.49	0.47
3:C:3721:GLY:O	3:C:3741:ARG:HG2	2.14	0.47
6:E:5:DA:C8	6:E:6:DA:N7	2.82	0.47
1:J:49:PHE:HZ	1:J:128:GLN:O	1.96	0.47
1:J:320:GLN:HG2	2:K:276:TRP:CZ3	2.49	0.47
1:J:463:LYS:HG2	2:K:387:LEU:HD11	1.96	0.47
2:K:440:ASN:O	2:K:442:LYS:N	2.43	0.47
3:L:2295:GLN:HE21	3:L:2298:GLU:HB2	1.78	0.47
3:L:3290:SER:OG	3:L:3291:GLN:N	2.48	0.47
3:L:3467:ARG:HD2	3:L:3467:ARG:HA	1.48	0.47
3:L:3575:LEU:O	3:L:3579:SER:OG	2.32	0.47
5:M:1:DT:N3	6:N:30:DA:N7	2.62	0.47
9:X:729:CYS:SG	9:X:736:VAL:HB	2.54	0.47
1:A:279:LYS:HB2	2:B:357:MET:SD	2.54	0.47
1:A:411:VAL:HG21	1:A:434:LEU:HB3	1.96	0.47
2:B:47:PHE:HZ	2:B:495:LEU:HB2	1.77	0.47
3:C:828:LYS:HA	3:C:831:LEU:CD1	2.45	0.47
3:C:1110:SER:O	3:C:1113:LEU:N	2.47	0.47
3:C:1694:THR:O	3:C:1697:PRO:HD2	2.14	0.47
3:C:1791:CYS:O	3:C:1795:VAL:HG23	2.14	0.47
3:C:2256:ILE:HG22	3:C:2260:PHE:CE2	2.49	0.47
3:C:2311:ARG:HD3	3:C:2312:TYR:CE1	2.48	0.47
3:C:3274:VAL:HA	3:C:3277:VAL:HG12	1.97	0.47
3:C:3493:TRP:O	3:C:3496:ILE:HG22	2.14	0.47
1:J:479:GLU:HG2	2:K:427:MET:HG2	1.96	0.47
2:K:68:LEU:HD12	2:K:113:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:129:LYS:HZ3	2:K:131:HIS:CD2	2.32	0.47
2:K:358:GLY:CA	2:K:423:GLN:HB3	2.44	0.47
3:L:334:HIS:CD2	3:L:334:HIS:N	2.81	0.47
3:L:641:PHE:O	3:L:644:PRO:HD2	2.15	0.47
3:L:828:LYS:HA	3:L:831:LEU:HD13	1.96	0.47
3:L:861:SER:O	3:L:3167:ARG:NH1	2.34	0.47
3:L:1741:ASP:O	3:L:1745:LYS:HG2	2.15	0.47
3:L:1828:LEU:HD23	3:L:1880:MET:HE3	1.95	0.47
3:L:3493:TRP:O	3:L:3495:PHE:N	2.48	0.47
3:L:3721:GLY:O	3:L:3741:ARG:HG2	2.14	0.47
5:M:8:DA:H2'	5:M:9:DC:C6	2.49	0.47
5:M:9:DC:H2''	5:M:10:DT:O4'	2.14	0.47
6:N:5:DA:C8	6:N:6:DA:N7	2.83	0.47
1:A:132:GLN:NE2	1:A:133:ASP:HB3	2.30	0.47
2:B:24:ILE:HG22	2:B:26:GLY:H	1.79	0.47
3:C:1388:ASP:OD1	3:C:1391:VAL:HB	2.15	0.47
3:C:1795:VAL:HG12	3:C:1799:GLU:OE1	2.13	0.47
3:C:1946:ASN:HD21	3:C:2093:CYS:HA	1.80	0.47
3:C:2205:VAL:HG22	3:C:2208:ASP:HB2	1.96	0.47
3:C:3172:LYS:HE3	3:C:3248:LYS:HE2	1.95	0.47
7:F:59:MET:O	7:F:60:ALA:HB3	2.14	0.47
1:J:400:TYR:CZ	1:J:402:PRO:HB3	2.49	0.47
1:J:480:ASN:ND2	1:J:483:LEU:H	2.12	0.47
2:K:489:ARG:NH1	2:K:493:CYS:HB2	2.28	0.47
3:L:709:LYS:HG2	3:L:1388:ASP:CB	2.44	0.47
3:L:1694:THR:O	3:L:1697:PRO:HD2	2.14	0.47
3:L:3155:VAL:HA	3:L:3158:LYS:NZ	2.30	0.47
3:L:3764:VAL:HA	3:L:3767:LEU:CD1	2.45	0.47
5:M:20:DG:C2	5:M:21:DT:C2	3.03	0.47
9:X:676:PRO:HA	9:X:679:GLU:OE2	2.15	0.47
1:A:329:LEU:HD21	2:B:493:CYS:SG	2.54	0.47
2:B:57:VAL:HG22	2:B:79:VAL:HG22	1.96	0.47
2:B:299:ASP:HA	3:C:117:LYS:NZ	2.30	0.47
2:B:399:LYS:O	2:B:400:ARG:HG3	2.15	0.47
3:C:51:LEU:HD21	3:C:96:MET:CG	2.44	0.47
3:C:75:SER:O	3:C:82:ARG:NH2	2.48	0.47
3:C:2340:SER:O	3:C:2344:LEU:HD23	2.15	0.47
3:C:3031:TRP:HZ3	3:C:3074:GLN:O	1.98	0.47
3:C:3128:LYS:HD3	3:C:3128:LYS:HA	1.72	0.47
3:C:3493:TRP:O	3:C:3495:PHE:N	2.47	0.47
3:C:3575:LEU:O	3:C:3579:SER:OG	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3760:GLN:O	3:C:3763:ARG:HG2	2.14	0.47
5:D:8:DA:H2'	5:D:9:DC:C6	2.49	0.47
2:K:6:ASN:OD1	2:K:7:LYS:N	2.47	0.47
2:K:399:LYS:O	2:K:400:ARG:HG3	2.15	0.47
3:L:220:LEU:HD22	3:L:267:VAL:HG13	1.95	0.47
3:L:327:VAL:HG21	3:L:337:LYS:HE3	1.97	0.47
3:L:395:MET:HE1	3:L:410:MET:HB3	1.96	0.47
3:L:828:LYS:HA	3:L:831:LEU:CD1	2.45	0.47
3:L:1060:PHE:HB3	3:L:1064:TYR:CE2	2.50	0.47
3:L:1638:PRO:HB2	3:L:1640:GLU:OE2	2.14	0.47
3:L:2581:LEU:CD1	3:L:2783:ILE:HG13	2.43	0.47
9:Y:722:LYS:HD3	9:Y:741:ARG:NH2	2.30	0.47
1:A:71:TYR:OH	1:A:111:PRO:HA	2.14	0.47
1:A:400:TYR:CZ	1:A:402:PRO:HB3	2.49	0.47
2:B:60:GLY:HA2	2:B:105:ALA:HB3	1.96	0.47
2:B:234:LEU:CD2	8:I:299:PHE:HE1	2.25	0.47
2:B:245:ILE:CD1	5:D:8:DA:H5'	2.43	0.47
2:B:249:CYS:O	2:B:261:ILE:HG22	2.15	0.47
3:C:14:ARG:CZ	3:C:14:ARG:HB2	2.44	0.47
3:C:393:LYS:HA	3:C:396:PHE:CD1	2.50	0.47
3:C:641:PHE:O	3:C:644:PRO:HD2	2.14	0.47
3:C:659:ARG:HD2	3:C:660:LEU:HG	1.96	0.47
3:C:745:VAL:HG22	3:C:746:ARG:H	1.79	0.47
3:C:990:GLN:NE2	3:C:2778:GLY:O	2.47	0.47
3:C:1421:GLU:C	3:C:1422:LYS:HD3	2.35	0.47
3:C:1731:PRO:HA	3:C:1736:PHE:CD2	2.50	0.47
3:C:1769:GLU:O	3:C:1822:ARG:NH2	2.47	0.47
3:C:1834:ASP:HA	3:C:1837:ARG:NH1	2.29	0.47
3:C:1943:ALA:O	3:C:1946:ASN:N	2.48	0.47
3:C:2122:LEU:HD23	3:C:2126:MET:HE1	1.96	0.47
3:C:2295:GLN:HE21	3:C:2298:GLU:HB2	1.78	0.47
3:C:2859:GLN:O	3:C:2862:SER:OG	2.24	0.47
3:C:3013:TYR:HE2	7:F:270:ARG:HA	1.79	0.47
3:C:3155:VAL:HA	3:C:3158:LYS:NZ	2.30	0.47
3:C:3290:SER:OG	3:C:3291:GLN:N	2.48	0.47
3:C:3980:MET:O	3:C:3984:MET:HG2	2.15	0.47
5:D:9:DC:H2''	5:D:10:DT:O4'	2.14	0.47
7:F:140:LYS:HA	7:F:140:LYS:HE2	1.96	0.47
1:J:71:TYR:OH	1:J:111:PRO:HA	2.15	0.47
1:J:132:GLN:NE2	1:J:133:ASP:HB3	2.30	0.47
1:J:411:VAL:HG21	1:J:434:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:24:ILE:HG22	2:K:26:GLY:H	1.79	0.47
2:K:57:VAL:HG22	2:K:79:VAL:HG22	1.96	0.47
3:L:386:VAL:HG13	3:L:390:GLN:HE22	1.79	0.47
3:L:661:PRO:O	3:L:662:LEU:HB2	2.14	0.47
3:L:1596:VAL:O	3:L:1600:MET:HG2	2.15	0.47
3:L:1747:LEU:HD21	3:L:1778:PHE:CD1	2.50	0.47
3:L:2157:PHE:CG	3:L:2164:TRP:HZ3	2.32	0.47
3:L:2205:VAL:HG22	3:L:2208:ASP:HB2	1.96	0.47
3:L:3045:ILE:O	3:L:3049:LEU:HD23	2.14	0.47
3:L:3585:PHE:CE2	3:L:3666:LEU:HD22	2.49	0.47
9:Y:677:ASP:HA	9:Y:680:ASN:HB2	1.96	0.47
1:A:241:ASP:OD1	1:A:242:LEU:N	2.48	0.47
1:A:463:LYS:HG2	2:B:387:LEU:HD11	1.97	0.47
2:B:325:LYS:O	2:B:328:GLU:HB3	2.15	0.47
2:B:447:THR:O	2:B:451:LEU:HG	2.14	0.47
3:C:93:LEU:HD12	3:C:93:LEU:HA	1.70	0.47
3:C:789:TYR:HD2	3:C:866:ILE:HG23	1.80	0.47
3:C:2514:ASN:OD1	3:C:2516:GLY:N	2.40	0.47
3:C:2529:THR:HG23	3:C:2530:ARG:HD2	1.96	0.47
3:C:3542:PHE:CZ	3:C:3555:VAL:HG21	2.49	0.47
3:C:3585:PHE:CE2	3:C:3666:LEU:HD22	2.49	0.47
3:C:3764:VAL:HA	3:C:3767:LEU:CD1	2.45	0.47
2:K:47:PHE:CZ	2:K:495:LEU:HB2	2.49	0.47
2:K:60:GLY:HA2	2:K:105:ALA:HB3	1.96	0.47
3:L:51:LEU:HD21	3:L:96:MET:CG	2.44	0.47
3:L:344:GLN:O	3:L:348:ILE:HG12	2.14	0.47
3:L:1142:HIS:CE1	3:L:1143:VAL:HG13	2.50	0.47
3:L:1769:GLU:O	3:L:1822:ARG:NH2	2.47	0.47
3:L:3157:LEU:O	3:L:3161:LEU:HD23	2.14	0.47
3:L:3274:VAL:HA	3:L:3277:VAL:HG12	1.97	0.47
9:X:663:GLU:HG3	9:X:697:THR:HA	1.95	0.47
9:Y:676:PRO:HA	9:Y:679:GLU:OE2	2.15	0.47
1:A:46:LYS:CE	1:A:137:HIS:HB3	2.45	0.47
1:A:77:SER:OG	1:A:78:SER:N	2.48	0.47
1:A:442:ASP:HB3	2:B:267:ILE:HG23	1.97	0.47
2:B:6:ASN:OD1	2:B:7:LYS:N	2.47	0.47
2:B:360:GLN:OE1	2:B:360:GLN:N	2.48	0.47
3:C:395:MET:HG2	3:C:413:PHE:CE1	2.50	0.47
3:C:880:MET:HE2	3:C:880:MET:HA	1.97	0.47
3:C:1747:LEU:HD21	3:C:1778:PHE:CD1	2.50	0.47
3:C:1840:PHE:O	3:C:1844:VAL:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2157:PHE:CG	3:C:2164:TRP:HZ3	2.32	0.47
3:C:3157:LEU:O	3:C:3161:LEU:HD23	2.14	0.47
3:C:3389:VAL:HG23	3:C:3413:TYR:CE1	2.50	0.47
5:D:20:DG:C2	5:D:21:DT:C2	3.03	0.47
5:D:23:DG:C2	5:D:24:DA:C4	3.02	0.47
6:E:16:DA:H5'	6:E:16:DA:H8	1.79	0.47
7:F:40:HIS:CD2	7:G:120:ALA:HB2	2.50	0.47
8:H:298:LEU:HD12	2:K:41:PHE:CG	2.50	0.47
1:J:241:ASP:OD1	1:J:242:LEU:N	2.48	0.47
1:J:317:LYS:NZ	1:J:330:GLU:OE1	2.48	0.47
2:K:466:LYS:HD3	2:K:469:LYS:HA	1.97	0.47
3:L:1595:ALA:HA	3:L:1598:ASN:ND2	2.29	0.47
3:L:1791:CYS:O	3:L:1795:VAL:HG23	2.14	0.47
3:L:1935:GLU:HG2	3:L:1936:ARG:N	2.29	0.47
6:N:16:DA:C5'	6:N:16:DA:H8	2.28	0.47
6:N:28:DA:H2''	6:N:29:DG:C8	2.50	0.47
1:A:149:VAL:O	1:A:153:LEU:HD23	2.15	0.47
3:C:939:MET:HE3	3:C:2782:ASP:H	1.79	0.47
3:C:1263:ALA:O	3:C:1266:CYS:N	2.45	0.47
3:C:1705:GLY:O	3:C:1707:LEU:HD12	2.14	0.47
3:C:1741:ASP:O	3:C:1745:LYS:HG2	2.15	0.47
3:C:2319:ALA:O	3:C:2323:LEU:HD23	2.14	0.47
3:C:2598:ARG:O	3:C:2598:ARG:NE	2.42	0.47
3:C:2745:ARG:O	3:C:2748:VAL:HG12	2.15	0.47
3:C:3650:LYS:O	3:C:3650:LYS:HD3	2.15	0.47
3:C:3958:LEU:O	3:C:3960:PRO:HD3	2.15	0.47
1:J:46:LYS:CE	1:J:137:HIS:HB3	2.45	0.47
1:J:392:LYS:HZ2	2:K:459:ASP:CG	2.19	0.47
1:J:416:GLN:N	1:J:431:GLY:O	2.45	0.47
1:J:442:ASP:HB3	2:K:267:ILE:HG23	1.97	0.47
2:K:237:PHE:CD2	2:K:491:PHE:HB2	2.51	0.47
3:L:82:ARG:O	3:L:85:ILE:HG22	2.16	0.47
3:L:393:LYS:HA	3:L:396:PHE:CD1	2.50	0.47
3:L:726:LEU:HD12	3:L:729:CYS:SG	2.55	0.47
3:L:1943:ALA:O	3:L:1946:ASN:N	2.48	0.47
3:L:2157:PHE:CG	3:L:2164:TRP:CZ3	3.03	0.47
3:L:2256:ILE:HG22	3:L:2260:PHE:HE2	1.80	0.47
3:L:2303:LEU:HG	3:L:2323:LEU:HD21	1.97	0.47
3:L:2411:LEU:HD21	3:L:2415:LEU:HD22	1.97	0.47
3:L:2600:THR:HG23	3:L:2601:VAL:HG13	1.97	0.47
3:L:3049:LEU:HD22	3:L:3061:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3169:PRO:HB2	3:L:3179:TRP:CZ3	2.48	0.47
6:N:1:DG:C2	6:N:2:DT:C4	3.03	0.47
7:O:120:ALA:HB2	7:P:40:HIS:CD2	2.50	0.47
1:A:113:ALA:C	1:A:115:ARG:N	2.68	0.46
1:A:172:GLU:HG2	1:A:174:ASN:O	2.15	0.46
2:B:66:ASN:ND2	2:B:74:TYR:O	2.44	0.46
3:C:895:ALA:O	3:C:896:VAL:C	2.53	0.46
3:C:1184:ARG:HH12	3:C:1265:GLU:CG	2.28	0.46
3:C:2313:LYS:HA	3:C:2316:TYR:CE1	2.50	0.46
3:C:2349:LEU:CB	3:C:2378:PHE:HE2	2.29	0.46
3:C:2417:SER:OG	3:C:2418:LYS:N	2.46	0.46
3:C:2600:THR:HG23	3:C:2601:VAL:HG13	1.97	0.46
5:D:5:DA:H2''	5:D:6:DG:H5''	1.97	0.46
1:J:77:SER:OG	1:J:78:SER:N	2.48	0.46
1:J:142:SER:HA	1:J:182:LYS:CE	2.43	0.46
1:J:172:GLU:HG2	1:J:174:ASN:O	2.15	0.46
1:J:462:MET:HA	1:J:465:ILE:HD13	1.96	0.46
1:J:465:ILE:HG23	1:J:518:LEU:HD11	1.96	0.46
3:L:886:TRP:CH2	3:L:964:ARG:HG2	2.50	0.46
3:L:895:ALA:O	3:L:896:VAL:C	2.54	0.46
3:L:2122:LEU:HD23	3:L:2126:MET:HE1	1.97	0.46
3:L:2153:THR:HG22	3:L:2153:THR:O	2.15	0.46
3:L:2153:THR:HG22	3:L:2156:VAL:HB	1.96	0.46
3:L:2281:MET:SD	3:L:2285:LEU:HG	2.56	0.46
3:L:2398:LEU:HD23	3:L:2398:LEU:HA	1.77	0.46
3:L:3650:LYS:O	3:L:3650:LYS:HD3	2.15	0.46
3:L:3958:LEU:O	3:L:3960:PRO:HD3	2.15	0.46
6:N:16:DA:H8	6:N:16:DA:H5'	1.79	0.46
1:A:68:GLN:NE2	1:A:120:ASP:HA	2.30	0.46
2:B:237:PHE:CD2	2:B:491:PHE:HB2	2.51	0.46
2:B:393:VAL:HG12	2:B:394:ARG:O	2.15	0.46
3:C:376:ILE:HG13	3:C:377:ASN:N	2.30	0.46
3:C:386:VAL:HG13	3:C:390:GLN:HE22	1.79	0.46
3:C:716:VAL:HG22	3:C:1120:SER:O	2.14	0.46
3:C:717:LYS:HB3	3:C:721:TYR:OH	2.15	0.46
3:C:726:LEU:HD12	3:C:729:CYS:SG	2.55	0.46
3:C:1060:PHE:HB3	3:C:1064:TYR:CE2	2.50	0.46
3:C:2153:THR:HG22	3:C:2156:VAL:HB	1.96	0.46
3:C:2281:MET:SD	3:C:2285:LEU:HG	2.56	0.46
3:C:2411:LEU:HD21	3:C:2415:LEU:HD22	1.97	0.46
3:C:2956:ALA:HB1	3:C:2972:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3012:GLU:HG3	3:C:3048:LYS:HD3	1.97	0.46
2:K:35:LYS:HZ1	2:K:95:GLU:HA	1.80	0.46
3:L:75:SER:O	3:L:82:ARG:NH2	2.48	0.46
3:L:236:LYS:N	3:L:281:GLN:OE1	2.42	0.46
3:L:1333:SER:O	3:L:1337:VAL:HG23	2.15	0.46
3:L:3856:MET:CE	3:L:4071:ALA:HB1	2.44	0.46
2:B:230:SER:O	2:B:234:LEU:HB2	2.16	0.46
2:B:492:GLN:OE1	2:B:509:GLN:HG3	2.15	0.46
3:C:358:GLU:O	3:C:361:ILE:HG22	2.16	0.46
3:C:664:SER:O	3:C:666:PHE:N	2.49	0.46
3:C:748:TYR:O	3:C:751:ALA:N	2.48	0.46
3:C:1601:LEU:HD21	3:C:1622:ILE:HD11	1.97	0.46
3:C:2572:TYR:CE2	3:C:2791:ILE:HD11	2.50	0.46
3:C:3031:TRP:N	3:C:3031:TRP:HD1	2.14	0.46
3:C:3049:LEU:HD22	3:C:3061:LEU:CD2	2.45	0.46
3:C:3247:ARG:HG2	3:C:3247:ARG:HH11	1.79	0.46
3:C:3374:ILE:HG13	3:C:3375:ALA:N	2.30	0.46
1:J:68:GLN:NE2	1:J:120:ASP:HA	2.30	0.46
2:K:249:CYS:O	2:K:261:ILE:HG22	2.15	0.46
3:L:948:MET:SD	3:L:950:GLU:N	2.89	0.46
3:L:2122:LEU:HB3	3:L:2123:PRO:CD	2.46	0.46
3:L:2572:TYR:CE2	3:L:2791:ILE:HD11	2.50	0.46
3:L:2924:VAL:HG11	3:L:2989:ALA:HB1	1.97	0.46
3:L:3374:ILE:HG13	3:L:3375:ALA:N	2.30	0.46
7:O:134:ILE:HG12	7:P:134:ILE:CA	2.44	0.46
1:A:241:ASP:HA	1:A:244:ARG:HG2	1.96	0.46
2:B:399:LYS:HG3	2:B:400:ARG:H	1.80	0.46
2:B:466:LYS:HD3	2:B:469:LYS:HA	1.98	0.46
2:B:531:SER:HA	2:B:534:LYS:HZ3	1.78	0.46
3:C:975:ASP:OD1	3:C:976:VAL:N	2.44	0.46
3:C:1267:TYR:CD1	3:C:1270:PHE:CE2	3.04	0.46
3:C:1909:ASN:O	3:C:1913:LYS:NZ	2.43	0.46
3:C:1931:ASN:HB3	3:C:1934:LEU:HD22	1.97	0.46
3:C:2153:THR:HG22	3:C:2153:THR:O	2.15	0.46
3:C:3447:VAL:HG13	3:C:3448:GLU:N	2.31	0.46
3:C:3767:LEU:HD21	3:C:4002:MET:SD	2.56	0.46
8:H:296:ARG:HA	8:H:300:SER:HB3	1.97	0.46
1:J:480:ASN:HB2	2:K:428:GLU:OE2	2.16	0.46
2:K:299:ASP:HA	3:L:117:LYS:NZ	2.30	0.46
2:K:393:VAL:HG12	2:K:394:ARG:O	2.15	0.46
3:L:55:THR:HG22	3:L:92:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:748:TYR:O	3:L:751:ALA:N	2.48	0.46
3:L:1653:LEU:HB3	3:L:1698:PHE:CE2	2.51	0.46
3:L:1707:LEU:O	3:L:1710:LEU:HB3	2.16	0.46
3:L:2417:SER:OG	3:L:2418:LYS:N	2.46	0.46
3:L:3389:VAL:HG23	3:L:3413:TYR:CE1	2.50	0.46
6:N:10:DA:H2'	6:N:11:DC:C5	2.51	0.46
9:X:668:SER:OG	9:X:703:GLY:N	2.49	0.46
9:X:669:GLY:HA2	9:X:703:GLY:HA3	1.98	0.46
1:A:317:LYS:NZ	1:A:330:GLU:OE1	2.48	0.46
1:A:356:LEU:HD12	1:A:437:LEU:HD21	1.98	0.46
3:C:327:VAL:HG21	3:C:337:LYS:HE3	1.96	0.46
3:C:462:VAL:HG22	3:C:534:LEU:HD13	1.98	0.46
3:C:948:MET:SD	3:C:950:GLU:N	2.89	0.46
3:C:985:GLU:HG3	3:C:1028:PHE:CE1	2.51	0.46
3:C:1142:HIS:CE1	3:C:1143:VAL:HG13	2.50	0.46
3:C:1265:GLU:O	3:C:1268:ASN:HB2	2.15	0.46
3:C:2358:ASP:OD1	3:C:2359:LYS:HG2	2.16	0.46
7:F:107:ARG:CG	8:H:64:ARG:HD2	2.45	0.46
2:K:48:ALA:HB2	2:K:238:LYS:HD2	1.98	0.46
2:K:164:PHE:HB3	2:K:227:PHE:HE1	1.79	0.46
3:L:51:LEU:O	3:L:55:THR:HG23	2.15	0.46
3:L:376:ILE:HG13	3:L:377:ASN:N	2.30	0.46
3:L:717:LYS:HB3	3:L:721:TYR:OH	2.15	0.46
3:L:1684:LEU:HD21	3:L:1689:LYS:HE3	1.97	0.46
3:L:1828:LEU:HD21	3:L:1839:PHE:CE2	2.51	0.46
3:L:2313:LYS:HA	3:L:2316:TYR:CE1	2.50	0.46
3:L:2340:SER:O	3:L:2344:LEU:HD23	2.15	0.46
3:L:3491:PRO:HB3	3:L:3493:TRP:CH2	2.51	0.46
3:L:3704:GLN:OE1	3:L:3716:HIS:HB3	2.16	0.46
3:L:3758:LEU:O	3:L:3761:ASP:N	2.49	0.46
3:L:3811:THR:HB	3:L:3814:ASP:HB2	1.97	0.46
3:L:3980:MET:O	3:L:3984:MET:HG2	2.15	0.46
5:M:23:DG:H2'	5:M:24:DA:H8	1.78	0.46
6:N:18:DC:H2''	6:N:19:DA:O5'	2.15	0.46
1:A:320:GLN:HG2	2:B:276:TRP:CZ3	2.49	0.46
2:B:68:LEU:HD12	2:B:113:VAL:HG22	1.96	0.46
3:C:886:TRP:CH2	3:C:964:ARG:HG2	2.50	0.46
3:C:1344:PHE:HE1	3:C:1348:LEU:HD13	1.79	0.46
3:C:2256:ILE:HG22	3:C:2260:PHE:HE2	1.80	0.46
3:C:3961:PHE:CE2	3:C:4107:LEU:HG	2.51	0.46
5:D:28:DC:N3	5:D:29:DA:C5	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:113:ALA:C	1:J:115:ARG:N	2.68	0.46
2:K:15:ASP:OD1	2:K:16:VAL:N	2.49	0.46
2:K:360:GLN:N	2:K:360:GLN:OE1	2.48	0.46
2:K:399:LYS:HG3	2:K:400:ARG:H	1.80	0.46
3:L:664:SER:O	3:L:666:PHE:N	2.49	0.46
3:L:1135:CYS:O	3:L:1138:ILE:HG12	2.16	0.46
3:L:1601:LEU:HD21	3:L:1622:ILE:HD11	1.97	0.46
3:L:1849:ASP:HA	3:L:1852:LYS:HG2	1.98	0.46
3:L:2529:THR:HG23	3:L:2530:ARG:HD2	1.96	0.46
3:L:2569:SER:OG	3:L:2570:PRO:HD2	2.15	0.46
3:L:3425:ARG:NE	3:L:3425:ARG:HA	2.31	0.46
3:L:3961:PHE:CE2	3:L:4107:LEU:HG	2.51	0.46
7:O:34:ILE:HD13	7:O:35:THR:N	2.31	0.46
1:A:480:ASN:HB2	2:B:428:GLU:OE2	2.15	0.46
2:B:15:ASP:OD1	2:B:16:VAL:N	2.49	0.46
2:B:364:VAL:N	2:B:419:LEU:O	2.33	0.46
3:C:1082:PHE:CB	3:C:1107:TYR:HE2	2.29	0.46
3:C:1596:VAL:O	3:C:1600:MET:HG2	2.15	0.46
3:C:3183:ILE:HD12	3:C:3238:MET:HG2	1.98	0.46
3:C:3557:ARG:O	3:C:3560:SER:OG	2.30	0.46
3:C:3758:LEU:O	3:C:3761:ASP:N	2.49	0.46
2:K:230:SER:O	2:K:234:LEU:HB2	2.16	0.46
2:K:273:LYS:HD3	2:K:273:LYS:HA	1.67	0.46
2:K:325:LYS:O	2:K:328:GLU:HB3	2.15	0.46
3:L:53:LEU:HD22	3:L:3101:TYR:CE2	2.51	0.46
3:L:391:ARG:HG2	3:L:1737:ASN:HD21	1.80	0.46
3:L:429:GLU:HA	3:L:432:THR:OG1	2.16	0.46
3:L:659:ARG:HD2	3:L:660:LEU:HG	1.96	0.46
3:L:737:PRO:O	3:L:741:ILE:HG12	2.16	0.46
3:L:1946:ASN:HD21	3:L:2093:CYS:HA	1.80	0.46
3:L:2316:TYR:CG	3:L:2317:ALA:N	2.84	0.46
3:L:2883:SER:C	3:L:2885:GLN:H	2.19	0.46
3:L:2956:ALA:HB1	3:L:2972:TYR:CE2	2.50	0.46
3:L:3012:GLU:HG3	3:L:3048:LYS:HD3	1.97	0.46
3:L:3502:MET:SD	3:L:3502:MET:N	2.85	0.46
5:M:5:DA:H2"	5:M:6:DG:H5"	1.97	0.46
9:X:692:ASN:OD1	9:X:693:PRO:HD2	2.15	0.46
9:X:722:LYS:HG3	9:X:725:TRP:H	1.81	0.46
9:Y:692:ASN:OD1	9:Y:693:PRO:HD2	2.15	0.46
1:A:479:GLU:HG2	2:B:427:MET:HG2	1.97	0.46
3:C:82:ARG:O	3:C:85:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:737:PRO:O	3:C:741:ILE:HG12	2.16	0.46
3:C:2303:LEU:HG	3:C:2323:LEU:HD21	1.97	0.46
3:C:3704:GLN:OE1	3:C:3716:HIS:HB3	2.16	0.46
6:E:1:DG:C2	6:E:2:DT:C4	3.03	0.46
6:E:16:DA:H8	6:E:16:DA:C5'	2.28	0.46
6:E:28:DA:H2''	6:E:29:DG:C8	2.50	0.46
2:K:245:ILE:CD1	5:M:8:DA:H5'	2.43	0.46
3:L:286:LEU:HD12	3:L:319:PHE:HE1	1.81	0.46
3:L:759:GLY:HA3	3:L:766:ALA:HB2	1.98	0.46
3:L:863:GLY:O	3:L:867:ASN:N	2.43	0.46
3:L:1649:LEU:HD22	3:L:1675:TYR:OH	2.15	0.46
3:L:2349:LEU:CB	3:L:2378:PHE:HE2	2.29	0.46
3:L:3013:TYR:HE2	7:P:270:ARG:HA	1.80	0.46
3:L:3031:TRP:HZ3	3:L:3074:GLN:O	1.98	0.46
3:L:3705:TYR:HE1	3:L:3716:HIS:NE2	2.13	0.46
3:L:3884:LYS:O	3:L:3888:VAL:HG23	2.16	0.46
1:A:171:ASN:OD1	1:A:171:ASN:N	2.48	0.46
1:A:216:PHE:CD2	1:A:217:TYR:CE1	3.04	0.46
3:C:1277:GLY:O	3:C:1281:VAL:HG23	2.16	0.46
3:C:1653:LEU:HB3	3:C:1698:PHE:CE2	2.51	0.46
3:C:2551:GLU:OE2	3:C:2854:PHE:HB3	2.16	0.46
3:C:3239:LYS:HD2	3:C:3262:LEU:HD21	1.98	0.46
7:G:34:ILE:HD13	7:G:35:THR:N	2.30	0.46
1:J:241:ASP:HA	1:J:244:ARG:HG2	1.96	0.46
3:L:14:ARG:HB2	3:L:14:ARG:CZ	2.44	0.46
3:L:462:VAL:HG22	3:L:534:LEU:HD13	1.98	0.46
3:L:733:LEU:O	3:L:735:SER:N	2.49	0.46
3:L:1264:LEU:HD11	3:L:1293:ALA:HB2	1.98	0.46
3:L:1370:ARG:HA	3:L:1373:VAL:HG12	1.98	0.46
3:L:1379:PRO:HB2	3:L:1384:PHE:CG	2.50	0.46
3:L:1731:PRO:HA	3:L:1736:PHE:CD2	2.50	0.46
3:L:2745:ARG:O	3:L:2748:VAL:HG12	2.15	0.46
3:L:3256:MET:SD	3:L:3287:ARG:NH1	2.89	0.46
3:L:3794:VAL:HG13	3:L:3794:VAL:O	2.16	0.46
9:X:677:ASP:HA	9:X:680:ASN:HB2	1.96	0.46
1:A:45:SER:HA	1:A:138:GLY:HA3	1.97	0.46
2:B:54:ILE:N	2:B:84:MET:O	2.33	0.46
3:C:268:PRO:O	3:C:272:LEU:HD23	2.16	0.46
3:C:949:PRO:CB	3:L:2579:HIS:CD2	2.89	0.46
3:C:1354:GLU:OE1	3:C:1357:LYS:HG2	2.16	0.46
3:C:1649:LEU:HD22	3:C:1675:TYR:OH	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1828:LEU:HD21	3:C:1839:PHE:CE2	2.51	0.46
3:C:1849:ASP:HA	3:C:1852:LYS:HG2	1.98	0.46
3:C:1855:PHE:HB3	3:C:1870:LYS:NZ	2.31	0.46
3:C:2157:PHE:CG	3:C:2164:TRP:CZ3	3.03	0.46
3:C:2316:TYR:CG	3:C:2317:ALA:N	2.84	0.46
3:C:2472:GLN:HA	3:C:2472:GLN:OE1	2.16	0.46
3:C:3341:LEU:HD23	3:C:3348:LEU:HD13	1.98	0.46
3:C:3472:ILE:HD11	3:C:3482:LEU:HD22	1.98	0.46
1:J:247:ARG:HD2	1:J:488:ARG:NH1	2.31	0.46
2:K:247:TRP:HZ3	2:K:395:TYR:HH	1.62	0.46
2:K:492:GLN:OE1	2:K:509:GLN:HG3	2.15	0.46
2:K:496:HIS:ND1	2:K:506:PRO:HD3	2.31	0.46
3:L:1171:TRP:NE1	3:L:1175:HIS:NE2	2.64	0.46
3:L:1332:TYR:O	3:L:1336:THR:HG23	2.16	0.46
3:L:2358:ASP:OD1	3:L:2359:LYS:HG2	2.16	0.46
3:L:3031:TRP:N	3:L:3031:TRP:HD1	2.14	0.46
3:L:3472:ILE:HD11	3:L:3482:LEU:HD22	1.98	0.46
3:L:3504:ALA:C	3:L:3506:LEU:H	2.20	0.46
3:L:3767:LEU:HD21	3:L:4002:MET:SD	2.56	0.46
9:Y:668:SER:OG	9:Y:703:GLY:N	2.49	0.46
1:A:335:GLU:OE1	3:C:213:ARG:NH1	2.47	0.45
2:B:273:LYS:HD3	2:B:273:LYS:HA	1.67	0.45
2:B:440:ASN:O	2:B:442:LYS:N	2.43	0.45
3:C:55:THR:HG22	3:C:92:PHE:CZ	2.51	0.45
3:C:429:GLU:HA	3:C:432:THR:OG1	2.16	0.45
3:C:792:ILE:HG23	3:C:793:LEU:HD22	1.99	0.45
3:C:899:ARG:HB2	3:C:899:ARG:CZ	2.46	0.45
3:C:1379:PRO:HB2	3:C:1384:PHE:CG	2.50	0.45
3:C:1395:LEU:HB3	3:C:1396:PRO:HD3	1.98	0.45
3:C:1684:LEU:HD21	3:C:1689:LYS:HE3	1.97	0.45
3:C:1806:ARG:CZ	3:C:1806:ARG:HB3	2.46	0.45
3:C:1913:LYS:HD2	3:C:1913:LYS:N	2.31	0.45
3:C:2164:TRP:C	3:C:2167:PRO:HD2	2.37	0.45
3:C:3172:LYS:O	3:C:3249:GLN:NE2	2.49	0.45
3:C:3250:ASN:HA	3:C:3252:PHE:HE1	1.80	0.45
3:C:3425:ARG:NE	3:C:3425:ARG:HA	2.31	0.45
3:C:3884:LYS:O	3:C:3888:VAL:HG23	2.16	0.45
6:E:18:DC:H2''	6:E:19:DA:O5'	2.15	0.45
1:J:38:LEU:HB3	1:J:83:LEU:HD13	1.98	0.45
1:J:264:ASN:OD1	1:J:267:ILE:N	2.37	0.45
3:L:395:MET:HG2	3:L:413:PHE:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:536:SER:O	3:L:538:ASP:N	2.49	0.45
3:L:1135:CYS:O	3:L:1139:GLU:OE1	2.34	0.45
3:L:1344:PHE:HE1	3:L:1348:LEU:HD13	1.80	0.45
3:L:1354:GLU:OE1	3:L:1357:LYS:HG2	2.17	0.45
3:L:1668:PHE:O	3:L:1671:VAL:HG12	2.16	0.45
3:L:1711:ARG:HH22	3:L:1757:MET:HE3	1.81	0.45
3:L:2514:ASN:OD1	3:L:2516:GLY:N	2.40	0.45
3:L:2551:GLU:OE2	3:L:2854:PHE:HB3	2.16	0.45
3:L:2589:TYR:HE1	3:L:2777:HIS:HB2	1.81	0.45
3:L:2976:LEU:CD1	7:P:271:LYS:HE3	2.46	0.45
3:L:3172:LYS:O	3:L:3249:GLN:NE2	2.49	0.45
3:L:3183:ILE:HD12	3:L:3238:MET:HG2	1.98	0.45
3:L:3575:LEU:HD13	3:L:3575:LEU:HA	1.75	0.45
3:L:3974:MET:HE2	3:L:3974:MET:HB3	1.82	0.45
5:M:22:DA:C6	6:N:8:DC:N4	2.84	0.45
5:M:28:DC:N3	5:M:29:DA:C5	2.84	0.45
1:A:74:LYS:HA	1:A:77:SER:OG	2.17	0.45
1:A:247:ARG:HD2	1:A:488:ARG:NH1	2.31	0.45
1:A:407:PRO:HG3	2:B:486:ARG:CD	2.46	0.45
2:B:365:PHE:CE1	2:B:418:CYS:HA	2.51	0.45
3:C:51:LEU:O	3:C:55:THR:HG23	2.15	0.45
3:C:53:LEU:HD22	3:C:3101:TYR:CE2	2.51	0.45
3:C:3389:VAL:O	3:C:3392:ALA:N	2.49	0.45
3:C:3705:TYR:HE1	3:C:3716:HIS:NE2	2.13	0.45
3:C:3794:VAL:HG13	3:C:3794:VAL:O	2.16	0.45
5:D:26:DT:C2	5:D:27:DA:N7	2.84	0.45
1:J:267:ILE:HD11	2:K:534:LYS:HG2	1.98	0.45
3:L:268:PRO:O	3:L:272:LEU:HD23	2.16	0.45
3:L:749:VAL:N	3:L:750:PRO:HD2	2.31	0.45
3:L:880:MET:HE2	3:L:880:MET:HA	1.98	0.45
3:L:1267:TYR:CD1	3:L:1270:PHE:CE2	3.04	0.45
3:L:1395:LEU:HB3	3:L:1396:PRO:HD3	1.98	0.45
3:L:1443:VAL:CG1	3:L:1447:ARG:HH22	2.29	0.45
3:L:1833:LEU:C	3:L:1835:ALA:H	2.20	0.45
3:L:2164:TRP:C	3:L:2167:PRO:HD2	2.37	0.45
3:L:2976:LEU:HD12	7:P:271:LYS:HE3	1.98	0.45
3:L:3252:PHE:HZ	3:L:3286:CYS:HG	1.63	0.45
3:L:3530:VAL:HG11	3:L:3568:ILE:HD13	1.98	0.45
1:A:71:TYR:O	1:A:75:ILE:HG12	2.16	0.45
1:A:370:PRO:HG3	1:A:382:PHE:CD1	2.51	0.45
3:C:182:GLY:HA2	3:C:189:MET:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:334:HIS:C	3:C:336:ASN:N	2.69	0.45
3:C:382:ASP:O	3:C:386:VAL:HG23	2.17	0.45
3:C:1014:LEU:HD22	3:C:1033:ILE:HD11	1.99	0.45
3:C:1509:GLN:O	3:C:1512:SER:OG	2.30	0.45
3:C:2122:LEU:HB3	3:C:2123:PRO:CD	2.46	0.45
3:C:3008:TRP:N	3:C:3008:TRP:HD1	2.14	0.45
3:C:3791:TYR:HB3	3:C:3806:LEU:HD21	1.98	0.45
3:C:3855:TYR:HA	3:C:3858:MET:HE2	1.98	0.45
3:C:4068:HIS:HD2	3:C:4071:ALA:HB3	1.81	0.45
5:D:15:DT:N3	5:D:16:DG:C5	2.84	0.45
6:E:10:DA:H2'	6:E:11:DC:C5	2.51	0.45
2:K:104:GLN:NE2	2:K:139:SER:OG	2.50	0.45
2:K:365:PHE:CE1	2:K:418:CYS:HA	2.51	0.45
3:L:93:LEU:HA	3:L:93:LEU:HD12	1.70	0.45
3:L:358:GLU:O	3:L:361:ILE:HG22	2.16	0.45
3:L:1801:VAL:HG11	3:L:1827:LEU:HD23	1.98	0.45
3:L:1913:LYS:HD2	3:L:1913:LYS:N	2.31	0.45
3:L:2472:GLN:OE1	3:L:2472:GLN:HA	2.17	0.45
3:L:3447:VAL:HG13	3:L:3448:GLU:N	2.30	0.45
3:L:3477:GLU:HB3	3:L:3478:GLU:OE2	2.16	0.45
3:L:3748:HIS:HB3	3:L:3750:PHE:CZ	2.51	0.45
3:L:4068:HIS:HD2	3:L:4071:ALA:HB3	1.81	0.45
5:M:15:DT:N3	5:M:16:DG:C5	2.84	0.45
9:Y:679:GLU:HA	9:Y:682:ILE:HB	1.98	0.45
2:B:423:GLN:NE2	2:B:424:LEU:O	2.48	0.45
2:B:496:HIS:ND1	2:B:506:PRO:HD3	2.31	0.45
3:C:759:GLY:HA3	3:C:766:ALA:HB2	1.98	0.45
3:C:1079:SER:O	3:C:1082:PHE:N	2.49	0.45
3:C:1135:CYS:O	3:C:1138:ILE:HG12	2.16	0.45
3:C:1241:LEU:CB	3:C:1292:LYS:HZ1	2.25	0.45
3:C:2602:LEU:HB2	3:C:2605:MET:CE	2.46	0.45
3:C:3510:GLN:O	3:C:3513:ALA:N	2.29	0.45
3:C:3530:VAL:HG11	3:C:3568:ILE:HD13	1.99	0.45
3:C:3685:PRO:O	3:C:3688:SER:OG	2.19	0.45
3:C:3754:GLY:O	3:C:3756:GLU:N	2.50	0.45
8:I:194:MET:N	8:I:194:MET:SD	2.89	0.45
1:J:335:GLU:OE1	3:L:213:ARG:NH1	2.47	0.45
1:J:386:LEU:HD12	1:J:415:PRO:HB3	1.98	0.45
2:K:441:SER:OG	2:K:444:TYR:HB2	2.16	0.45
2:K:482:ILE:HD11	2:K:515:MET:HG2	1.99	0.45
3:L:382:ASP:O	3:L:386:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1184:ARG:HH12	3:L:1265:GLU:CG	2.28	0.45
3:L:1582:LEU:O	3:L:1586:SER:OG	2.27	0.45
3:L:1966:LEU:HD12	3:L:1966:LEU:HA	1.79	0.45
3:L:3239:LYS:HD2	3:L:3262:LEU:HD21	1.98	0.45
3:L:3250:ASN:HA	3:L:3252:PHE:HE1	1.80	0.45
5:M:26:DT:C2	5:M:27:DA:N7	2.84	0.45
1:A:352:PRO:O	1:A:354:VAL:N	2.50	0.45
2:B:319:ASP:OD1	2:B:319:ASP:N	2.45	0.45
2:B:421:TYR:CD1	2:B:422:VAL:N	2.85	0.45
3:C:56:SER:CB	3:C:3098:ARG:HG3	2.47	0.45
3:C:749:VAL:N	3:C:750:PRO:HD2	2.31	0.45
3:C:992:ILE:HG13	3:C:1032:CYS:SG	2.57	0.45
3:C:1833:LEU:C	3:C:1835:ALA:H	2.20	0.45
3:C:2506:LEU:HD22	3:C:2525:TRP:HE1	1.81	0.45
3:C:2521:ILE:O	3:C:2524:PHE:HB3	2.17	0.45
3:C:3477:GLU:HB3	3:C:3478:GLU:OE2	2.16	0.45
3:C:3491:PRO:HB3	3:C:3493:TRP:CH2	2.51	0.45
3:C:3498:TRP:HZ3	3:C:3501:HIS:HB3	1.80	0.45
8:I:67:ALA:HB3	8:I:72:PHE:CE2	2.52	0.45
1:J:45:SER:HA	1:J:138:GLY:HA3	1.97	0.45
1:J:216:PHE:CD2	1:J:217:TYR:CE1	3.04	0.45
1:J:352:PRO:O	1:J:354:VAL:N	2.50	0.45
1:J:356:LEU:HD12	1:J:437:LEU:HD21	1.98	0.45
3:L:56:SER:CB	3:L:3098:ARG:HG3	2.47	0.45
3:L:334:HIS:C	3:L:336:ASN:N	2.69	0.45
3:L:1212:LEU:O	3:L:1216:GLY:N	2.50	0.45
3:L:1277:GLY:O	3:L:1281:VAL:HG23	2.16	0.45
3:L:3071:GLY:O	3:L:3074:GLN:HB2	2.17	0.45
3:L:3487:ILE:HA	3:L:3490:VAL:HG23	1.98	0.45
3:L:3754:GLY:O	3:L:3756:GLU:N	2.50	0.45
3:L:3809:THR:HG23	3:L:3929:MET:HE3	1.99	0.45
1:A:259:LEU:HB3	1:A:344:GLY:HA2	1.98	0.45
2:B:246:HIS:CD2	2:B:368:ARG:HH12	2.35	0.45
3:C:443:ILE:HD12	3:C:530:LEU:HD21	1.99	0.45
3:C:703:CYS:O	3:C:706:LEU:HG	2.17	0.45
3:C:894:PHE:CE1	3:C:2576:MET:HE3	2.52	0.45
3:C:1178:ARG:HD3	3:C:1183:CYS:SG	2.57	0.45
3:C:1668:PHE:O	3:C:1671:VAL:HG12	2.16	0.45
3:C:1684:LEU:HD23	3:C:1684:LEU:H	1.81	0.45
3:C:3145:ILE:HA	3:C:3151:LEU:HD11	1.98	0.45
3:C:3472:ILE:CD1	3:C:3482:LEU:HD22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3687:MET:N	3:C:3687:MET:SD	2.90	0.45
1:J:171:ASN:N	1:J:171:ASN:OD1	2.48	0.45
2:K:475:ASP:C	2:K:477:PHE:H	2.20	0.45
3:L:757:LYS:O	3:L:760:LEU:HG	2.17	0.45
3:L:1684:LEU:HD23	3:L:1684:LEU:H	1.81	0.45
3:L:1931:ASN:HB3	3:L:1934:LEU:HD22	1.97	0.45
3:L:2163:HIS:O	3:L:2164:TRP:HD1	2.00	0.45
3:L:2357:GLU:HB3	3:L:2389:PHE:CZ	2.52	0.45
3:L:3341:LEU:HD23	3:L:3348:LEU:HD13	1.98	0.45
3:L:3451:LEU:HD11	3:L:3468:LEU:HD22	1.99	0.45
3:L:3472:ILE:CD1	3:L:3482:LEU:HD22	2.47	0.45
3:L:3731:SER:O	3:L:3734:ARG:NE	2.44	0.45
3:L:3751:LEU:O	3:L:3751:LEU:HD23	2.17	0.45
3:L:3821:SER:HB3	3:L:3824:GLU:OE1	2.17	0.45
5:M:21:DT:C2	5:M:22:DA:N7	2.85	0.45
9:Y:681:ARG:NH2	9:Y:731:LYS:HE3	2.31	0.45
1:A:290:ARG:CZ	9:X:694:GLY:HA3	2.47	0.45
2:B:482:ILE:HD11	2:B:515:MET:HG3	1.99	0.45
3:C:115:TYR:HE2	3:C:159:GLU:HG3	1.82	0.45
3:C:334:HIS:N	3:C:334:HIS:CD2	2.81	0.45
3:C:757:LYS:O	3:C:760:LEU:HG	2.17	0.45
3:C:1264:LEU:HD11	3:C:1293:ALA:HB2	1.98	0.45
3:C:1565:GLU:HG2	3:C:1566:THR:N	2.32	0.45
3:C:1707:LEU:O	3:C:1710:LEU:HB3	2.16	0.45
3:C:3133:GLN:OE1	3:C:3133:GLN:HA	2.16	0.45
3:C:3448:GLU:O	3:C:3452:LYS:HB2	2.17	0.45
3:C:3751:LEU:O	3:C:3751:LEU:HD23	2.17	0.45
3:C:3811:THR:HB	3:C:3814:ASP:HB2	1.97	0.45
5:D:24:DA:H2	5:D:25:DT:C2	2.34	0.45
2:K:421:TYR:CD1	2:K:422:VAL:N	2.85	0.45
2:K:533:ILE:HG23	2:K:537:PHE:CE2	2.52	0.45
3:L:215:PRO:O	3:L:217:LEU:N	2.50	0.45
3:L:405:ASP:OD1	3:L:406:ARG:N	2.49	0.45
3:L:789:TYR:HD2	3:L:866:ILE:HG23	1.80	0.45
3:L:899:ARG:CZ	3:L:899:ARG:HB2	2.46	0.45
3:L:970:LEU:O	3:L:973:ALA:N	2.49	0.45
3:L:1184:ARG:HH12	3:L:1265:GLU:HB3	1.82	0.45
3:L:1305:ASP:OD1	3:L:1305:ASP:N	2.42	0.45
3:L:1565:GLU:HG2	3:L:1566:THR:N	2.32	0.45
3:L:1855:PHE:HB3	3:L:1870:LYS:NZ	2.31	0.45
3:L:1890:HIS:HA	3:L:1909:ASN:HD22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2414:GLN:O	3:L:2417:SER:OG	2.21	0.45
3:L:2493:ASN:OD1	3:L:2494:ASP:N	2.50	0.45
3:L:3175:PRO:O	3:L:3178:ILE:HG22	2.17	0.45
3:L:3497:SER:HA	3:L:3707:GLY:HA3	1.99	0.45
3:L:3687:MET:N	3:L:3687:MET:SD	2.90	0.45
3:L:3701:ILE:CG1	3:L:3717:VAL:HG13	2.45	0.45
3:L:3813:LYS:HD3	3:L:3926:ASN:ND2	2.32	0.45
5:M:3:DT:C2	6:N:28:DA:N1	2.85	0.45
5:M:20:DG:C5	5:M:21:DT:C4	3.05	0.45
1:A:122:PHE:N	1:A:122:PHE:CD1	2.85	0.45
2:B:407:VAL:HG23	2:B:424:LEU:HG	1.99	0.45
2:B:441:SER:OG	2:B:444:TYR:HB2	2.16	0.45
2:B:475:ASP:C	2:B:477:PHE:H	2.20	0.45
3:C:746:ARG:O	3:C:746:ARG:HD2	2.17	0.45
3:C:961:LEU:HD12	3:C:961:LEU:HA	1.86	0.45
3:C:970:LEU:O	3:C:973:ALA:N	2.49	0.45
3:C:1744:LYS:HD2	3:C:1744:LYS:HA	1.79	0.45
3:C:2414:GLN:O	3:C:2417:SER:OG	2.21	0.45
3:C:3487:ILE:HA	3:C:3490:VAL:HG23	1.98	0.45
3:C:3497:SER:HA	3:C:3707:GLY:HA3	1.99	0.45
1:J:259:LEU:HB3	1:J:344:GLY:HA2	1.98	0.45
1:J:407:PRO:HG3	2:K:486:ARG:CD	2.46	0.45
3:L:493:LYS:HZ3	3:L:495:VAL:HG22	1.80	0.45
3:L:992:ILE:HG13	3:L:1032:CYS:SG	2.57	0.45
3:L:1049:GLN:HA	3:L:1053:PRO:CG	2.47	0.45
3:L:1079:SER:O	3:L:1082:PHE:N	2.49	0.45
3:L:1265:GLU:O	3:L:1268:ASN:HB2	2.16	0.45
3:L:1786:ALA:HB2	3:L:1827:LEU:HD12	1.98	0.45
3:L:2234:ASN:O	3:L:2238:ILE:HG12	2.17	0.45
3:L:2459:VAL:HA	3:L:2473:MET:HE3	1.99	0.45
3:L:2578:GLU:HG2	3:L:2579:HIS:CG	2.52	0.45
3:L:3154:GLN:HE21	3:L:3227:ILE:CD1	2.30	0.45
3:L:3389:VAL:O	3:L:3392:ALA:N	2.49	0.45
3:L:3506:LEU:HD21	3:L:3555:VAL:HG22	1.98	0.45
1:A:38:LEU:HB3	1:A:83:LEU:HD13	1.98	0.45
2:B:553:ILE:H	3:C:254:LYS:NZ	2.15	0.45
3:C:117:LYS:HD3	3:C:117:LYS:HA	1.76	0.45
3:C:352:VAL:HG13	3:C:354:SER:H	1.82	0.45
3:C:405:ASP:OD1	3:C:406:ARG:N	2.49	0.45
3:C:1128:CYS:O	3:C:1131:ILE:HB	2.17	0.45
3:C:1256:TRP:CZ2	3:C:1292:LYS:HD3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1878:ASP:HB3	3:C:1947:CYS:SG	2.57	0.45
3:C:2493:ASN:OD1	3:C:2494:ASP:N	2.50	0.45
3:C:2569:SER:OG	3:C:2570:PRO:HD2	2.15	0.45
3:C:2924:VAL:HG11	3:C:2989:ALA:HB1	1.97	0.45
3:C:2977:ASN:CG	7:F:272:ARG:NH2	2.62	0.45
3:C:3154:GLN:HE21	3:C:3227:ILE:CD1	2.30	0.45
3:C:3256:MET:SD	3:C:3287:ARG:NH1	2.89	0.45
3:C:3410:ILE:HG13	3:C:3411:ASP:N	2.32	0.45
5:D:19:DA:C2	5:D:20:DG:C4	3.05	0.45
1:J:149:VAL:O	1:J:153:LEU:HD23	2.15	0.45
1:J:262:LYS:CB	1:J:268:VAL:HG12	2.47	0.45
2:K:88:PHE:O	2:K:91:LEU:N	2.50	0.45
3:L:1184:ARG:NH1	3:L:1265:GLU:HB3	2.32	0.45
3:L:1225:GLU:O	3:L:1235:ILE:N	2.39	0.45
3:L:1878:ASP:HB3	3:L:1947:CYS:SG	2.57	0.45
3:L:2506:LEU:HD22	3:L:2525:TRP:HE1	1.82	0.45
5:M:19:DA:C2	5:M:20:DG:C4	3.05	0.45
1:A:76:ILE:HG21	1:A:487:PHE:CD1	2.51	0.45
1:A:125:GLN:O	1:A:128:GLN:HG2	2.17	0.45
1:A:388:LYS:HG3	2:B:454:VAL:HB	1.99	0.45
2:B:88:PHE:O	2:B:91:LEU:N	2.50	0.45
2:B:482:ILE:HD11	2:B:515:MET:HG2	1.99	0.45
3:C:168:ASP:HB2	6:E:11:DC:OP1	2.17	0.45
3:C:1367:HIS:HA	3:C:1370:ARG:NE	2.31	0.45
3:C:1558:TYR:O	3:C:1562:LEU:HD23	2.17	0.45
3:C:1927:MET:CE	3:C:1977:ILE:HG12	2.47	0.45
3:C:2277:LEU:HD12	3:C:2280:VAL:CG1	2.47	0.45
3:C:2357:GLU:HB3	3:C:2389:PHE:CZ	2.52	0.45
3:C:2377:ARG:C	3:C:2378:PHE:HD1	2.21	0.45
3:C:2817:LEU:O	3:C:2820:MET:HG2	2.17	0.45
3:C:3129:LEU:O	3:C:3131:SER:N	2.50	0.45
3:C:3753:LYS:NZ	10:C:4201:ADP:O1A	2.50	0.45
3:C:3837:CYS:SG	3:C:3877:LYS:HB3	2.57	0.45
5:D:26:DT:C2	5:D:27:DA:C5	3.05	0.45
8:H:298:LEU:HD11	2:K:41:PHE:CG	2.52	0.45
1:J:74:LYS:HA	1:J:77:SER:OG	2.17	0.45
1:J:122:PHE:N	1:J:122:PHE:CD1	2.85	0.45
2:K:407:VAL:HG23	2:K:424:LEU:HG	1.99	0.45
2:K:423:GLN:NE2	2:K:424:LEU:O	2.48	0.45
2:K:448:GLU:HA	2:K:451:LEU:HD12	1.99	0.45
2:K:553:ILE:H	3:L:254:LYS:NZ	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:711:GLY:O	3:L:714:VAL:HG12	2.17	0.45
3:L:2197:THR:HG21	3:L:2245:TRP:HB3	1.98	0.45
3:L:2247:ASP:O	3:L:2249:LEU:HG	2.17	0.45
3:L:3133:GLN:OE1	3:L:3133:GLN:HA	2.16	0.45
9:X:674:PRO:O	9:X:678:LEU:HG	2.17	0.45
1:A:267:ILE:HD11	2:B:534:LYS:HG2	1.98	0.44
2:B:35:LYS:HZ1	2:B:95:GLU:HA	1.82	0.44
2:B:48:ALA:HB2	2:B:238:LYS:HD2	1.98	0.44
3:C:215:PRO:O	3:C:217:LEU:N	2.50	0.44
3:C:252:VAL:HG22	3:C:274:LEU:HD23	1.99	0.44
3:C:733:LEU:O	3:C:735:SER:N	2.49	0.44
3:C:1184:ARG:HH12	3:C:1265:GLU:HB3	1.82	0.44
3:C:1332:TYR:O	3:C:1336:THR:HG23	2.16	0.44
3:C:1370:ARG:HA	3:C:1373:VAL:HG12	1.98	0.44
3:C:1376:LEU:HD13	3:C:1399:CYS:SG	2.57	0.44
3:C:2792:THR:N	3:C:2793:PRO:HD2	2.33	0.44
3:C:2883:SER:C	3:C:2885:GLN:H	2.19	0.44
3:C:3451:LEU:HD11	3:C:3468:LEU:HD22	1.99	0.44
3:C:3731:SER:O	3:C:3734:ARG:NE	2.44	0.44
1:J:125:GLN:O	1:J:128:GLN:HG2	2.17	0.44
1:J:370:PRO:HG3	1:J:382:PHE:CD1	2.52	0.44
2:K:459:ASP:O	2:K:462:SER:OG	2.24	0.44
3:L:168:ASP:HB2	6:N:11:DC:OP1	2.17	0.44
3:L:461:ILE:O	3:L:465:PHE:HD2	2.00	0.44
3:L:891:ARG:N	3:L:891:ARG:HD2	2.32	0.44
3:L:3008:TRP:N	3:L:3008:TRP:HD1	2.13	0.44
3:L:3076:ALA:HA	3:L:3079:GLU:HG3	2.00	0.44
3:L:3408:GLY:O	3:L:3412:ALA:N	2.35	0.44
3:L:3756:GLU:OE2	3:L:3943:GLY:HA2	2.18	0.44
5:M:24:DA:N6	6:N:6:DA:H61	2.15	0.44
9:Y:669:GLY:HA2	9:Y:703:GLY:HA3	1.98	0.44
1:A:262:LYS:CB	1:A:268:VAL:HG12	2.47	0.44
1:A:312:LEU:HD11	3:C:157:TYR:HE1	1.81	0.44
3:C:176:GLU:OE2	3:C:225:LYS:NZ	2.46	0.44
3:C:236:LYS:N	3:C:281:GLN:OE1	2.42	0.44
3:C:1135:CYS:O	3:C:1139:GLU:OE1	2.34	0.44
3:C:1171:TRP:NE1	3:C:1175:HIS:NE2	2.64	0.44
3:C:1786:ALA:HB2	3:C:1827:LEU:HD12	1.98	0.44
3:C:2976:LEU:HD12	7:F:271:LYS:HE3	2.00	0.44
3:C:2976:LEU:CD1	7:F:271:LYS:HE3	2.47	0.44
3:C:3748:HIS:HB3	3:C:3750:PHE:CZ	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:346:MET:O	1:J:398:CYS:HA	2.17	0.44
3:L:12:LEU:HA	3:L:12:LEU:HD23	1.62	0.44
3:L:115:TYR:HE2	3:L:159:GLU:HG3	1.82	0.44
3:L:1128:CYS:O	3:L:1131:ILE:HB	2.17	0.44
3:L:1639:LEU:HD12	3:L:1642:LYS:HD2	2.00	0.44
3:L:2521:ILE:O	3:L:2524:PHE:HB3	2.17	0.44
3:L:2602:LEU:HB2	3:L:2605:MET:CE	2.47	0.44
3:L:2936:TYR:CD2	3:L:2961:ALA:HA	2.52	0.44
3:L:3138:ILE:HD11	3:L:3185:ASN:ND2	2.33	0.44
3:L:3145:ILE:HA	3:L:3151:LEU:HD11	1.98	0.44
3:L:3300:VAL:HG13	3:L:3301:LEU:N	2.32	0.44
3:L:3837:CYS:SG	3:L:3877:LYS:HB3	2.57	0.44
1:A:353:LEU:HD23	1:A:395:ALA:HB2	2.00	0.44
1:A:386:LEU:HD12	1:A:415:PRO:HB3	1.98	0.44
1:A:479:GLU:HG2	2:B:427:MET:CG	2.48	0.44
2:B:453:ALA:O	2:B:457:LEU:HD23	2.18	0.44
3:C:677:ALA:O	3:C:680:ILE:HG22	2.17	0.44
3:C:741:ILE:HG23	3:C:748:TYR:HD2	1.82	0.44
3:C:745:VAL:HG22	3:C:746:ARG:N	2.32	0.44
3:C:1212:LEU:O	3:C:1216:GLY:N	2.50	0.44
3:C:1305:ASP:N	3:C:1305:ASP:OD1	2.41	0.44
3:C:1820:VAL:HA	3:C:1824:LEU:CB	2.40	0.44
3:C:2197:THR:HG21	3:C:2245:TRP:HB3	1.98	0.44
3:C:3504:ALA:C	3:C:3506:LEU:H	2.19	0.44
5:D:21:DT:C2	5:D:22:DA:N7	2.85	0.44
5:D:25:DT:C2	5:D:26:DT:C6	3.05	0.44
1:J:175:PRO:HG3	1:J:216:PHE:CE2	2.52	0.44
3:L:798:GLY:HA3	3:L:920:THR:HG22	1.99	0.44
3:L:935:HIS:HB2	3:L:984:TYR:CE1	2.46	0.44
3:L:1014:LEU:HD22	3:L:1033:ILE:HD11	1.99	0.44
3:L:1082:PHE:CB	3:L:1107:TYR:HE2	2.29	0.44
3:L:1273:GLU:HB2	3:L:1275:THR:HG23	2.00	0.44
3:L:1744:LYS:HA	3:L:1744:LYS:HD2	1.80	0.44
3:L:2855:VAL:CG1	3:L:2859:GLN:HE22	2.31	0.44
5:M:8:DA:H2'	5:M:9:DC:H6	1.83	0.44
7:O:138:GLN:HE21	7:P:137:ASN:CG	2.21	0.44
1:A:206:LYS:HD2	1:A:234:GLU:O	2.18	0.44
3:C:391:ARG:HG2	3:C:1737:ASN:HD21	1.81	0.44
3:C:536:SER:O	3:C:538:ASP:N	2.49	0.44
3:C:662:LEU:O	3:C:663:ILE:HD13	2.17	0.44
3:C:1872:GLY:O	3:C:1876:ILE:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2246:LYS:HG3	3:C:2246:LYS:O	2.18	0.44
3:C:2247:ASP:O	3:C:2249:LEU:HG	2.17	0.44
3:C:2374:LEU:O	3:C:2374:LEU:HD23	2.18	0.44
3:C:3537:SER:HA	3:C:3540:TYR:CE1	2.53	0.44
8:H:18:LEU:CD2	8:H:95:PHE:O	2.65	0.44
2:K:237:PHE:HB2	2:K:488:GLN:NE2	2.33	0.44
3:L:182:GLY:HA2	3:L:189:MET:HG3	1.99	0.44
3:L:364:ARG:HG2	3:L:364:ARG:NH1	2.32	0.44
3:L:1526:GLU:O	3:L:1529:VAL:HG12	2.17	0.44
3:L:2277:LEU:HD12	3:L:2280:VAL:CG1	2.47	0.44
3:L:3410:ILE:HG13	3:L:3411:ASP:N	2.32	0.44
3:L:3878:VAL:HG21	3:L:4127:TRP:CD1	2.53	0.44
3:L:3961:PHE:HB2	3:L:4111:ALA:HB1	2.00	0.44
9:X:663:GLU:HG2	9:X:698:TYR:CD1	2.52	0.44
9:X:679:GLU:HA	9:X:682:ILE:HB	1.99	0.44
9:Y:663:GLU:HG2	9:Y:698:TYR:CD1	2.52	0.44
1:A:49:PHE:CZ	1:A:132:GLN:HB3	2.53	0.44
1:A:317:LYS:N	2:B:279:VAL:O	2.44	0.44
2:B:358:GLY:CA	2:B:423:GLN:HB3	2.44	0.44
3:C:1639:LEU:HD12	3:C:1642:LYS:HD2	2.00	0.44
3:C:2163:HIS:O	3:C:2164:TRP:HD1	2.00	0.44
3:C:2270:ASN:O	3:C:2274:ILE:HG13	2.17	0.44
3:C:2305:ASN:O	3:C:2308:SER:OG	2.22	0.44
3:C:2402:LEU:HD21	3:C:2437:ASP:OD2	2.17	0.44
3:C:3175:PRO:O	3:C:3178:ILE:HG22	2.17	0.44
3:C:3887:PHE:HZ	3:C:3904:PHE:CD2	2.36	0.44
3:C:3961:PHE:HB2	3:C:4111:ALA:HB1	2.00	0.44
5:D:20:DG:C5	5:D:21:DT:C4	3.05	0.44
1:J:48:MET:SD	1:J:171:ASN:ND2	2.91	0.44
1:J:71:TYR:O	1:J:75:ILE:HG12	2.17	0.44
1:J:76:ILE:HG21	1:J:487:PHE:CD1	2.52	0.44
2:K:200:GLN:O	2:K:203:GLU:HG3	2.18	0.44
2:K:441:SER:HG	2:K:445:ALA:H	1.56	0.44
3:L:1256:TRP:CZ2	3:L:1292:LYS:HD3	2.52	0.44
3:L:1376:LEU:HD13	3:L:1399:CYS:SG	2.57	0.44
3:L:2374:LEU:O	3:L:2374:LEU:HD23	2.18	0.44
3:L:2782:ASP:OD1	3:L:2782:ASP:O	2.35	0.44
3:L:3887:PHE:HZ	3:L:3904:PHE:CD2	2.36	0.44
6:N:17:DT:C2'	6:N:18:DC:H5''	2.48	0.44
9:Y:674:PRO:O	9:Y:678:LEU:HG	2.17	0.44
1:A:346:MET:O	1:A:398:CYS:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:LEU:HD12	9:X:708:ARG:HG3	1.98	0.44
2:B:533:ILE:HG23	2:B:537:PHE:CE2	2.52	0.44
3:C:108:LYS:HG3	3:C:131:LEU:HD21	1.99	0.44
3:C:1473:THR:HB	3:C:1477:HIS:CE1	2.53	0.44
3:C:1526:GLU:O	3:C:1529:VAL:HG12	2.17	0.44
3:C:1801:VAL:HG11	3:C:1827:LEU:HD23	1.98	0.44
5:D:24:DA:N6	6:E:6:DA:H61	2.15	0.44
6:E:3:DG:C2	6:E:4:DT:C4	3.06	0.44
2:K:246:HIS:CD2	2:K:368:ARG:HH12	2.35	0.44
3:L:117:LYS:HD3	3:L:117:LYS:HA	1.76	0.44
3:L:741:ILE:HG23	3:L:748:TYR:HD2	1.82	0.44
3:L:746:ARG:O	3:L:746:ARG:HD2	2.17	0.44
3:L:2251:ILE:O	3:L:2253:TYR:N	2.51	0.44
3:L:2567:SER:HA	3:L:2572:TYR:CE2	2.53	0.44
9:X:681:ARG:NH2	9:X:731:LYS:HE3	2.31	0.44
1:A:303:PHE:HE1	2:B:292:GLU:HG2	1.81	0.44
1:A:526:LYS:O	1:A:530:TYR:HB3	2.18	0.44
2:B:448:GLU:HA	2:B:451:LEU:HD12	1.99	0.44
3:C:879:MET:O	3:C:882:SER:OG	2.30	0.44
3:C:1184:ARG:NH1	3:C:1265:GLU:HB3	2.32	0.44
3:C:1441:ALA:C	3:C:1443:VAL:H	2.21	0.44
3:C:2121:ASP:HA	3:C:2124:SER:HB3	2.00	0.44
3:C:2183:HIS:O	3:C:2186:VAL:HG12	2.18	0.44
3:C:3076:ALA:HA	3:C:3079:GLU:HG3	2.00	0.44
3:C:3490:VAL:HG21	3:C:3495:PHE:CZ	2.52	0.44
3:C:3878:VAL:HG21	3:C:4127:TRP:CD1	2.53	0.44
5:D:5:DA:C6	5:D:6:DG:C6	3.06	0.44
5:D:10:DT:C2	5:D:11:DC:C6	3.05	0.44
8:H:51:THR:HG23	8:H:69:PRO:CG	2.47	0.44
1:J:49:PHE:CZ	1:J:132:GLN:HB3	2.53	0.44
1:J:470:ARG:NH1	1:J:470:ARG:HB3	2.33	0.44
3:L:252:VAL:HG22	3:L:274:LEU:HD23	1.99	0.44
3:L:762:TYR:CZ	3:L:764:PRO:HG2	2.53	0.44
3:L:1178:ARG:HD3	3:L:1183:CYS:SG	2.57	0.44
3:L:1872:GLY:O	3:L:1876:ILE:HG23	2.18	0.44
3:L:1927:MET:CE	3:L:1977:ILE:HG12	2.48	0.44
3:L:2464:HIS:CG	3:L:2465:PRO:HD2	2.53	0.44
3:L:3511:ALA:C	3:L:3513:ALA:N	2.70	0.44
3:L:3969:ASN:OD1	3:L:3972:LEU:HD13	2.18	0.44
5:M:26:DT:C2	5:M:27:DA:C5	3.05	0.44
6:N:27:DT:C4	6:N:28:DA:N6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:12:LEU:HD23	3:C:12:LEU:HA	1.62	0.44
3:C:1261:LEU:HD11	3:C:1340:ARG:HG3	1.99	0.44
3:C:1370:ARG:HB3	3:C:1418:HIS:NE2	2.33	0.44
3:C:2234:ASN:O	3:C:2238:ILE:HG12	2.17	0.44
3:C:2567:SER:HA	3:C:2572:TYR:CE2	2.53	0.44
3:C:2578:GLU:HG2	3:C:2579:HIS:CG	2.52	0.44
3:C:2782:ASP:OD1	3:C:2782:ASP:O	2.35	0.44
3:C:2804:ILE:HD13	3:C:2804:ILE:HA	1.85	0.44
3:C:3813:LYS:HD3	3:C:3926:ASN:ND2	2.32	0.44
5:D:22:DA:C6	6:E:8:DC:N4	2.84	0.44
1:J:172:GLU:O	1:J:174:ASN:N	2.51	0.44
1:J:349:GLY:HA3	2:K:463:LEU:HB2	2.00	0.44
1:J:526:LYS:O	1:J:530:TYR:HB3	2.18	0.44
3:L:108:LYS:HG3	3:L:131:LEU:HD21	1.98	0.44
3:L:227:LEU:HD21	3:L:248:ILE:HG23	2.00	0.44
3:L:366:TYR:HE1	3:L:384:MET:HB2	1.83	0.44
3:L:703:CYS:O	3:L:706:LEU:HG	2.17	0.44
3:L:792:ILE:HG23	3:L:793:LEU:HD22	1.98	0.44
3:L:939:MET:HE3	3:L:2782:ASP:OD1	2.17	0.44
3:L:1370:ARG:HB3	3:L:1418:HIS:NE2	2.33	0.44
3:L:1798:LEU:HD21	3:L:1831:CYS:SG	2.58	0.44
3:L:1806:ARG:CZ	3:L:1806:ARG:HB3	2.47	0.44
3:L:1923:PHE:HE1	3:L:1945:TYR:CD1	2.35	0.44
3:L:2121:ASP:HA	3:L:2124:SER:HB3	2.00	0.44
3:L:2205:VAL:HB	3:L:2206:PRO:HD2	1.99	0.44
3:L:3129:LEU:O	3:L:3131:SER:N	2.50	0.44
3:L:3448:GLU:O	3:L:3452:LYS:HB2	2.17	0.44
3:L:3537:SER:HA	3:L:3540:TYR:CE1	2.53	0.44
3:L:3753:LYS:NZ	10:L:4201:ADP:O1A	2.50	0.44
5:M:5:DA:C6	5:M:6:DG:C6	3.06	0.44
1:A:35:ARG:O	1:A:162:SER:N	2.41	0.44
1:A:48:MET:SD	1:A:171:ASN:ND2	2.91	0.44
2:B:9:ALA:HB1	2:B:83:LEU:HD11	2.00	0.44
2:B:497:ARG:HH12	2:B:503:GLU:H	1.66	0.44
3:C:366:TYR:HE1	3:C:384:MET:HB2	1.83	0.44
3:C:891:ARG:N	3:C:891:ARG:HD2	2.32	0.44
3:C:1443:VAL:CG1	3:C:1447:ARG:HH22	2.29	0.44
3:C:1633:TRP:HB3	3:C:1678:LEU:HD21	1.99	0.44
3:C:1676:ILE:HG23	3:C:1713:VAL:HG11	1.99	0.44
3:C:2965:TYR:HB2	3:C:3005:LEU:HD21	2.00	0.44
3:C:3022:GLU:HG2	3:C:3024:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:17:DT:C2'	6:E:18:DC:H5''	2.48	0.44
7:F:107:ARG:HG2	8:H:64:ARG:HD2	1.99	0.44
8:H:298:LEU:HD12	2:K:41:PHE:CD2	2.53	0.44
1:J:105:LEU:HG	1:J:106:GLN:NE2	2.32	0.44
1:J:145:GLU:O	1:J:149:VAL:HG23	2.18	0.44
1:J:353:LEU:HD23	1:J:395:ALA:HB2	2.00	0.44
1:J:479:GLU:HG2	2:K:427:MET:CG	2.47	0.44
2:K:453:ALA:O	2:K:457:LEU:HD23	2.18	0.44
3:L:410:MET:O	3:L:414:LEU:HD23	2.17	0.44
3:L:443:ILE:HD12	3:L:530:LEU:HD21	1.99	0.44
3:L:741:ILE:HA	3:L:748:TYR:HE2	1.83	0.44
3:L:745:VAL:HG22	3:L:746:ARG:N	2.32	0.44
3:L:1225:GLU:O	3:L:1235:ILE:HD12	2.18	0.44
3:L:1261:LEU:HD11	3:L:1340:ARG:HG3	1.99	0.44
3:L:1488:TYR:CE2	3:L:1555:HIS:CE1	3.06	0.44
3:L:2246:LYS:HG3	3:L:2246:LYS:O	2.17	0.44
3:L:2817:LEU:O	3:L:2820:MET:HG2	2.17	0.44
3:L:3022:GLU:HG2	3:L:3024:PRO:HD2	1.99	0.44
3:L:3561:LYS:HD2	3:L:3561:LYS:O	2.18	0.44
3:L:3751:LEU:HD12	3:L:3805:TRP:CE3	2.53	0.44
5:M:10:DT:C2	5:M:11:DC:C6	3.05	0.44
5:M:25:DT:C2	5:M:26:DT:C6	3.05	0.44
1:A:415:PRO:HA	1:A:432:PHE:HD1	1.82	0.43
2:B:104:GLN:NE2	2:B:139:SER:OG	2.50	0.43
2:B:200:GLN:O	2:B:203:GLU:HG3	2.18	0.43
2:B:237:PHE:HB2	2:B:488:GLN:NE2	2.33	0.43
3:C:886:TRP:CZ3	3:C:964:ARG:HG2	2.53	0.43
3:C:1890:HIS:HA	3:C:1909:ASN:HD22	1.82	0.43
3:C:1914:THR:O	3:C:1918:LEU:HG	2.18	0.43
3:C:1923:PHE:HE1	3:C:1945:TYR:CD1	2.35	0.43
3:C:2257:PHE:HA	3:C:2260:PHE:CE2	2.53	0.43
3:C:2519:LEU:HD12	3:C:2519:LEU:HA	1.92	0.43
3:C:2563:LEU:O	3:C:2566:THR:HB	2.18	0.43
3:C:3071:GLY:O	3:C:3074:GLN:HB2	2.17	0.43
3:C:3127:THR:HA	3:C:3130:GLN:OE1	2.19	0.43
3:C:3160:LEU:HD21	3:C:3164:TRP:CE2	2.53	0.43
3:C:3506:LEU:HD21	3:C:3555:VAL:HG22	1.99	0.43
3:C:3821:SER:HB3	3:C:3824:GLU:OE1	2.17	0.43
6:E:2:DT:N3	6:E:3:DG:C5	2.86	0.43
1:J:320:GLN:HA	1:J:320:GLN:OE1	2.18	0.43
3:L:264:ARG:HD3	3:L:264:ARG:HA	1.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:677:ALA:O	3:L:680:ILE:HG22	2.18	0.43
3:L:1100:VAL:HA	3:L:1103:ALA:CB	2.48	0.43
3:L:1473:THR:HB	3:L:1477:HIS:CE1	2.53	0.43
3:L:1987:ARG:HA	3:L:1987:ARG:NE	2.33	0.43
3:L:2100:LEU:HG	3:L:2104:MET:CE	2.48	0.43
3:L:2371:PHE:CG	3:L:2373:PRO:HD2	2.53	0.43
3:L:3157:LEU:HD21	3:L:3231:ILE:HD11	2.00	0.43
3:L:3160:LEU:HD21	3:L:3164:TRP:CE2	2.53	0.43
3:L:3789:ARG:HB3	3:L:3938:ILE:HG23	2.00	0.43
9:Y:722:LYS:HD2	9:Y:724:ALA:HB3	2.00	0.43
1:A:125:GLN:HA	1:A:128:GLN:HG2	1.99	0.43
1:A:349:GLY:HA3	2:B:463:LEU:HB2	2.00	0.43
1:A:491:GLU:HG3	2:B:316:TYR:CE2	2.53	0.43
2:B:247:TRP:HD1	2:B:248:PRO:HD2	1.83	0.43
3:C:342:MET:HA	3:C:345:PHE:CE1	2.53	0.43
3:C:1049:GLN:HA	3:C:1053:PRO:CG	2.47	0.43
3:C:1766:LEU:HD11	3:C:1778:PHE:CG	2.53	0.43
3:C:3300:VAL:HG13	3:C:3301:LEU:N	2.32	0.43
3:C:3789:ARG:HB3	3:C:3938:ILE:HG23	2.00	0.43
3:C:4127:TRP:HD1	3:C:4128:MET:OXT	2.01	0.43
7:F:137:ASN:CG	7:G:138:GLN:HE21	2.21	0.43
1:J:439:PHE:CE2	2:K:485:PRO:HD2	2.51	0.43
1:J:491:GLU:HG3	2:K:316:TYR:CE2	2.53	0.43
2:K:247:TRP:HD1	2:K:248:PRO:HD2	1.83	0.43
2:K:466:LYS:HA	2:K:473:LEU:HA	2.00	0.43
3:L:61:ARG:HG2	3:L:61:ARG:HH21	1.83	0.43
3:L:662:LEU:O	3:L:663:ILE:HD13	2.17	0.43
3:L:1487:VAL:HG13	3:L:1488:TYR:N	2.33	0.43
3:L:1633:TRP:HB3	3:L:1678:LEU:HD21	1.99	0.43
3:L:2183:HIS:O	3:L:2186:VAL:HG12	2.18	0.43
3:L:2792:THR:N	3:L:2793:PRO:HD2	2.33	0.43
3:L:3006:ALA:C	3:L:3008:TRP:HD1	2.22	0.43
3:L:3701:ILE:HG23	3:L:3750:PHE:HE2	1.83	0.43
3:L:3791:TYR:HB3	3:L:3806:LEU:HD21	1.99	0.43
7:O:51:GLU:HA	7:O:54:GLN:HB3	2.00	0.43
1:A:38:LEU:O	1:A:83:LEU:HA	2.18	0.43
3:C:1256:TRP:HD1	3:C:1259:LEU:HD23	1.83	0.43
3:C:2371:PHE:CG	3:C:2373:PRO:HD2	2.53	0.43
3:C:2589:TYR:HE1	3:C:2777:HIS:HB2	1.81	0.43
3:C:2936:TYR:CD2	3:C:2961:ALA:HA	2.52	0.43
3:C:3090:TYR:CE1	3:C:3098:ARG:CZ	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3371:GLU:O	3:C:3374:ILE:HG12	2.18	0.43
3:C:3701:ILE:HG23	3:C:3750:PHE:HE2	1.83	0.43
3:C:3974:MET:HE2	3:C:3974:MET:HB3	1.79	0.43
6:E:16:DA:C5'	6:E:16:DA:C8	3.01	0.43
2:K:9:ALA:HB1	2:K:83:LEU:HD11	2.00	0.43
3:L:128:LEU:HD13	3:L:128:LEU:HA	1.80	0.43
3:L:651:TYR:CE2	3:L:655:LEU:HD11	2.54	0.43
3:L:1173:LEU:HD12	3:L:1191:PHE:CZ	2.53	0.43
3:L:1962:TYR:CE2	3:L:2103:HIS:HD2	2.35	0.43
3:L:2190:VAL:HG22	3:L:2194:LEU:HD23	2.00	0.43
3:L:2270:ASN:O	3:L:2274:ILE:HG13	2.17	0.43
3:L:2283:ASN:OD1	3:L:2284:ASP:N	2.50	0.43
3:L:2539:LEU:HD12	3:L:2539:LEU:HA	1.80	0.43
3:L:2551:GLU:O	3:L:2554:PHE:N	2.36	0.43
3:L:2965:TYR:HB2	3:L:3005:LEU:HD21	2.00	0.43
3:L:3180:ASP:O	3:L:3183:ILE:HG22	2.18	0.43
3:L:3371:GLU:O	3:L:3374:ILE:HG12	2.18	0.43
3:L:3486:GLU:C	3:L:3488:SER:N	2.71	0.43
3:L:3498:TRP:HZ3	3:L:3501:HIS:HB3	1.80	0.43
5:M:26:DT:H2''	5:M:27:DA:H5''	2.01	0.43
6:N:19:DA:C6	6:N:20:DG:C6	3.07	0.43
7:O:91:GLU:H	7:O:91:GLU:CD	2.22	0.43
9:Y:664:PHE:O	9:Y:690:VAL:HB	2.18	0.43
1:A:105:LEU:HG	1:A:106:GLN:NE2	2.32	0.43
3:C:240:GLU:O	3:C:244:THR:OG1	2.34	0.43
3:C:354:SER:OG	3:C:358:GLU:OE1	2.19	0.43
3:C:410:MET:O	3:C:414:LEU:HD23	2.17	0.43
3:C:753:GLN:NE2	3:C:791:ASP:O	2.52	0.43
3:C:762:TYR:CZ	3:C:764:PRO:HG2	2.53	0.43
3:C:991:LEU:HD23	3:C:991:LEU:HA	1.84	0.43
3:C:2585:GLU:OE1	3:C:2586:PHE:N	2.51	0.43
3:C:2855:VAL:CG1	3:C:2859:GLN:HE22	2.31	0.43
3:C:3561:LYS:O	3:C:3561:LYS:HD2	2.18	0.43
3:C:3761:ASP:HA	3:C:3764:VAL:HG12	2.00	0.43
3:C:3999:THR:C	3:C:4001:THR:H	2.22	0.43
6:E:13:DG:C5	6:E:14:DA:C5	3.07	0.43
1:J:38:LEU:O	1:J:83:LEU:HA	2.18	0.43
1:J:363:ARG:HB2	1:J:364:PRO:CD	2.43	0.43
1:J:388:LYS:HG3	2:K:454:VAL:HB	1.99	0.43
1:J:415:PRO:HA	1:J:432:PHE:HD1	1.82	0.43
3:L:352:VAL:HG22	3:L:353:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:615:ALA:O	3:L:617:PRO:HD3	2.19	0.43
3:L:1256:TRP:HD1	3:L:1259:LEU:HD23	1.83	0.43
3:L:1342:MET:O	3:L:1345:THR:OG1	2.33	0.43
3:L:2257:PHE:HA	3:L:2260:PHE:CE2	2.53	0.43
3:L:2402:LEU:HD21	3:L:2437:ASP:OD2	2.17	0.43
3:L:3490:VAL:HG21	3:L:3495:PHE:CZ	2.52	0.43
6:N:3:DG:C2	6:N:4:DT:C4	3.06	0.43
1:A:175:PRO:HG3	1:A:216:PHE:CE2	2.52	0.43
3:C:461:ILE:O	3:C:465:PHE:HD2	2.00	0.43
3:C:615:ALA:O	3:C:617:PRO:HD3	2.19	0.43
3:C:703:CYS:HA	3:C:706:LEU:HG	2.00	0.43
3:C:736:LEU:HB3	3:C:740:ILE:HG21	2.00	0.43
3:C:1273:GLU:HB2	3:C:1275:THR:HG23	2.00	0.43
3:C:1487:VAL:HG13	3:C:1488:TYR:N	2.33	0.43
3:C:1922:ALA:O	3:C:1941:HIS:ND1	2.48	0.43
3:C:2165:LEU:HD13	3:C:2202:PRO:HG2	1.99	0.43
3:C:2251:ILE:O	3:C:2253:TYR:N	2.51	0.43
3:C:3327:ASN:O	3:C:3384:HIS:NE2	2.51	0.43
3:C:3756:GLU:OE2	3:C:3943:GLY:HA2	2.18	0.43
7:G:68:GLY:HA2	7:G:71:ARG:HG2	2.00	0.43
8:H:46:HIS:HB3	8:H:124:MET:SD	2.59	0.43
1:J:125:GLN:HA	1:J:128:GLN:HG2	1.99	0.43
1:J:206:LYS:HD2	1:J:234:GLU:O	2.18	0.43
2:K:118:ILE:HG23	2:K:122:THR:HG21	2.00	0.43
2:K:482:ILE:HD11	2:K:515:MET:HG3	1.99	0.43
3:L:238:MET:H	3:L:241:ASP:CG	2.22	0.43
3:L:282:PHE:O	3:L:286:LEU:HD23	2.18	0.43
3:L:477:ASN:O	3:L:481:THR:HG23	2.19	0.43
3:L:703:CYS:HA	3:L:706:LEU:HG	2.00	0.43
3:L:1558:TYR:O	3:L:1562:LEU:HD23	2.18	0.43
3:L:1766:LEU:HD11	3:L:1778:PHE:CG	2.53	0.43
3:L:3090:TYR:CE1	3:L:3098:ARG:CZ	3.01	0.43
3:L:3160:LEU:HD21	3:L:3164:TRP:CZ2	2.54	0.43
3:L:3510:GLN:O	3:L:3513:ALA:N	2.29	0.43
3:L:3686:TRP:HE3	3:L:3687:MET:SD	2.42	0.43
6:N:16:DA:C5'	6:N:16:DA:C8	3.01	0.43
9:X:700:VAL:HG21	9:X:712:ILE:HD12	2.00	0.43
1:A:470:ARG:HB3	1:A:470:ARG:NH1	2.33	0.43
3:C:2100:LEU:HG	3:C:2104:MET:CE	2.48	0.43
3:C:2207:LYS:HG3	3:C:2211:LEU:HD13	2.01	0.43
3:C:3157:LEU:HD21	3:C:3231:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3180:ASP:O	3:C:3183:ILE:HG22	2.18	0.43
3:C:3511:ALA:C	3:C:3513:ALA:N	2.70	0.43
3:C:3681:LYS:HD3	3:C:3726:VAL:HB	2.01	0.43
3:C:3701:ILE:CG1	3:C:3717:VAL:HG13	2.46	0.43
3:C:3751:LEU:HD12	3:C:3805:TRP:CE3	2.53	0.43
3:C:3816:LEU:HD12	3:C:3882:LEU:HD13	2.01	0.43
3:C:3862:ALA:CB	3:C:4119:ARG:HH22	2.31	0.43
6:E:10:DA:C8	6:E:11:DC:H5	2.36	0.43
6:E:27:DT:C4	6:E:28:DA:N6	2.86	0.43
8:I:1:MET:SD	8:I:4:LEU:HB2	2.59	0.43
1:J:262:LYS:HD2	1:J:346:MET:CE	2.49	0.43
3:L:342:MET:HA	3:L:345:PHE:CE1	2.53	0.43
3:L:497:LEU:HD23	3:L:497:LEU:HA	1.86	0.43
3:L:985:GLU:HG3	3:L:1028:PHE:CE1	2.51	0.43
3:L:2392:VAL:O	3:L:2395:THR:OG1	2.28	0.43
3:L:3805:TRP:CD2	10:L:4201:ADP:H2	2.36	0.43
1:A:262:LYS:HD2	1:A:346:MET:CE	2.49	0.43
1:A:320:GLN:OE1	1:A:320:GLN:HA	2.18	0.43
1:A:362:LEU:HD11	2:B:269:GLN:HB2	2.01	0.43
1:A:416:GLN:HG2	1:A:433:GLN:HG3	2.01	0.43
1:A:439:PHE:CE2	2:B:485:PRO:HD2	2.51	0.43
2:B:547:GLN:CG	2:B:548:VAL:H	2.27	0.43
3:C:282:PHE:O	3:C:286:LEU:HD23	2.18	0.43
3:C:352:VAL:HG22	3:C:353:ASP:N	2.33	0.43
3:C:711:GLY:O	3:C:714:VAL:HG12	2.18	0.43
3:C:798:GLY:HA3	3:C:920:THR:HG22	1.99	0.43
3:C:1100:VAL:HA	3:C:1103:ALA:CB	2.48	0.43
3:C:1798:LEU:HD21	3:C:1831:CYS:SG	2.58	0.43
3:C:1902:GLY:HA2	3:C:1905:ILE:HG23	2.01	0.43
3:C:1987:ARG:HA	3:C:1987:ARG:NE	2.33	0.43
3:C:2190:VAL:HG22	3:C:2194:LEU:HD23	2.00	0.43
3:C:2464:HIS:CG	3:C:2465:PRO:HD2	2.53	0.43
3:C:3138:ILE:HD11	3:C:3185:ASN:ND2	2.33	0.43
3:C:3686:TRP:HE3	3:C:3687:MET:SD	2.42	0.43
3:C:3835:PRO:CB	3:C:3840:LYS:H	2.32	0.43
1:J:303:PHE:HE1	2:K:292:GLU:HG2	1.81	0.43
2:K:148:ASP:OD1	2:K:149:ILE:N	2.51	0.43
3:L:185:HIS:CD2	3:L:188:GLU:H	2.37	0.43
3:L:352:VAL:HG13	3:L:354:SER:H	1.81	0.43
3:L:530:LEU:O	3:L:534:LEU:HD23	2.19	0.43
3:L:894:PHE:CE1	3:L:2576:MET:HE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1661:PHE:C	3:L:1668:PHE:HE1	2.22	0.43
3:L:2184:TYR:CZ	3:L:2188:GLU:OE2	2.72	0.43
3:L:2305:ASN:O	3:L:2308:SER:OG	2.22	0.43
3:L:2377:ARG:C	3:L:2378:PHE:HD1	2.21	0.43
3:L:3037:GLN:NE2	3:L:3077:ILE:HG13	2.34	0.43
3:L:3806:LEU:HD13	3:L:3806:LEU:HA	1.90	0.43
3:L:3816:LEU:HD12	3:L:3882:LEU:HD13	2.01	0.43
3:L:4127:TRP:HD1	3:L:4128:MET:OXT	2.01	0.43
5:M:24:DA:H2	5:M:25:DT:C2	2.34	0.43
1:A:90:THR:HG23	1:A:92:LYS:O	2.19	0.43
1:A:172:GLU:O	1:A:174:ASN:N	2.51	0.43
3:C:61:ARG:HH21	3:C:61:ARG:HG2	1.84	0.43
3:C:746:ARG:HG3	3:C:788:TYR:CZ	2.54	0.43
3:C:1180:GLN:CD	3:C:1180:GLN:H	2.22	0.43
3:C:1488:TYR:CE2	3:C:1555:HIS:CE1	3.06	0.43
3:C:1759:LEU:O	3:C:1763:THR:HG23	2.19	0.43
3:C:2313:LYS:HA	3:C:2316:TYR:HE1	1.83	0.43
3:C:2415:LEU:HD12	3:C:2415:LEU:HA	1.74	0.43
3:C:3763:ARG:HH12	3:C:4004:VAL:HG22	1.83	0.43
8:I:140:MET:SD	8:I:140:MET:C	2.97	0.43
1:J:461:LYS:HZ3	1:J:524:GLU:HB3	1.84	0.43
3:L:627:VAL:HG21	3:L:665:GLY:HA3	2.01	0.43
3:L:643:GLU:HB2	3:L:644:PRO:HD3	2.01	0.43
3:L:1209:LYS:HA	3:L:1212:LEU:HG	2.01	0.43
3:L:1914:THR:O	3:L:1918:LEU:HG	2.18	0.43
3:L:2210:VAL:O	3:L:2214:ARG:HG2	2.19	0.43
3:L:2415:LEU:HD12	3:L:2415:LEU:HA	1.74	0.43
3:L:3327:ASN:O	3:L:3384:HIS:NE2	2.51	0.43
3:L:3680:LEU:HB3	3:L:3682:GLU:HB2	2.01	0.43
3:L:3997:LEU:O	3:L:4001:THR:OG1	2.19	0.43
3:L:4076:ASP:O	3:L:4080:VAL:HG23	2.19	0.43
6:N:10:DA:C8	6:N:11:DC:H5	2.36	0.43
9:X:665:CYS:SG	9:X:693:PRO:HD3	2.58	0.43
2:B:529:PRO:O	2:B:533:ILE:HG12	2.19	0.43
3:C:227:LEU:HD21	3:C:248:ILE:HG23	2.00	0.43
3:C:651:TYR:CE2	3:C:655:LEU:HD11	2.54	0.43
3:C:1208:LEU:HA	3:C:1211:VAL:HG22	2.01	0.43
3:C:1414:ILE:H	3:C:1414:ILE:HD12	1.84	0.43
3:C:2210:VAL:O	3:C:2214:ARG:HG2	2.19	0.43
3:C:2464:HIS:CE1	3:C:2466:SER:HB3	2.54	0.43
3:C:3037:GLN:NE2	3:C:3077:ILE:HG13	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3160:LEU:HD21	3:C:3164:TRP:CZ2	2.54	0.43
3:C:3180:ASP:O	3:C:3184:THR:HG23	2.19	0.43
3:C:3408:GLY:O	3:C:3412:ALA:N	2.35	0.43
3:C:3805:TRP:CD2	10:C:4201:ADP:H2	2.35	0.43
3:C:3872:ARG:HH12	3:C:4114:PRO:HB3	1.83	0.43
3:C:3908:HIS:HA	3:C:3911:ILE:HG22	2.01	0.43
3:C:3969:ASN:OD1	3:C:3972:LEU:HD13	2.18	0.43
5:D:3:DT:C2	6:E:28:DA:N1	2.85	0.43
5:D:21:DT:C2	5:D:22:DA:C8	3.07	0.43
1:J:175:PRO:HB2	1:J:176:HIS:HD1	1.84	0.43
1:J:390:LEU:HD13	1:J:417:GLU:HG2	2.00	0.43
1:J:498:MET:SD	9:Y:705:GLU:OE1	2.76	0.43
2:K:497:ARG:HH12	2:K:503:GLU:H	1.66	0.43
3:L:753:GLN:NE2	3:L:791:ASP:O	2.52	0.43
3:L:975:ASP:OD1	3:L:976:VAL:N	2.44	0.43
3:L:1414:ILE:H	3:L:1414:ILE:HD12	1.84	0.43
3:L:1441:ALA:C	3:L:1443:VAL:H	2.21	0.43
3:L:1676:ILE:HG23	3:L:1713:VAL:HG11	1.99	0.43
3:L:2120:ARG:HB2	3:L:2160:TYR:HE1	1.83	0.43
3:L:2443:MET:HG3	3:L:2479:TRP:CZ3	2.54	0.43
3:L:2464:HIS:CE1	3:L:2466:SER:HB3	2.54	0.43
3:L:2585:GLU:OE1	3:L:2586:PHE:N	2.51	0.43
3:L:3750:PHE:HB3	3:L:3802:LEU:HD12	2.00	0.43
3:L:3763:ARG:HH12	3:L:4004:VAL:HG22	1.82	0.43
3:L:3856:MET:HE1	3:L:4071:ALA:HB1	2.01	0.43
3:L:3999:THR:C	3:L:4001:THR:H	2.22	0.43
3:L:4085:LYS:HB3	3:L:4085:LYS:HE3	1.72	0.43
5:M:21:DT:C2	5:M:22:DA:C8	3.07	0.43
1:A:345:LEU:HA	1:A:399:ARG:O	2.19	0.43
1:A:346:MET:HG3	1:A:399:ARG:NH2	2.34	0.43
1:A:390:LEU:HD13	1:A:417:GLU:HG2	2.00	0.43
3:C:364:ARG:HG2	3:C:364:ARG:NH1	2.33	0.43
3:C:1018:VAL:CG2	3:C:1074:LYS:HG2	2.49	0.43
3:C:1135:CYS:SG	3:C:1194:PHE:CE1	3.12	0.43
3:C:1225:GLU:O	3:C:1235:ILE:HD12	2.18	0.43
3:C:1661:PHE:C	3:C:1668:PHE:HE1	2.22	0.43
3:C:1962:TYR:CE2	3:C:2103:HIS:HD2	2.34	0.43
3:C:2884:LEU:HD23	3:C:3128:LYS:HG2	2.01	0.43
3:C:3091:LEU:HD12	3:C:3091:LEU:HA	1.71	0.43
3:C:3238:MET:HE3	3:C:3238:MET:HB2	1.97	0.43
3:C:3386:SER:O	3:C:3389:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3636:PHE:CZ	3:C:3666:LEU:HG	2.54	0.43
3:C:3750:PHE:HB3	3:C:3802:LEU:HD12	2.00	0.43
3:C:4076:ASP:O	3:C:4080:VAL:HG23	2.19	0.43
8:H:18:LEU:HD22	8:H:95:PHE:O	2.19	0.43
3:L:578:LYS:NZ	4:R:6006:UNK:O	2.50	0.43
3:L:886:TRP:CZ3	3:L:964:ARG:HG2	2.53	0.43
3:L:1871:MET:O	3:L:1875:LYS:HG3	2.19	0.43
3:L:1931:ASN:OD1	3:L:1933:LEU:N	2.48	0.43
3:L:2207:LYS:HG3	3:L:2211:LEU:HD13	2.01	0.43
3:L:2220:MET:HG2	3:L:2276:LEU:HD21	2.01	0.43
3:L:2313:LYS:HA	3:L:2316:TYR:HE1	1.82	0.43
3:L:3127:THR:HA	3:L:3130:GLN:OE1	2.19	0.43
3:L:3731:SER:C	3:L:3734:ARG:HH11	2.22	0.43
3:L:3946:PHE:HE2	3:L:4043:LYS:HG3	1.83	0.43
9:Y:665:CYS:SG	9:Y:693:PRO:HD3	2.58	0.43
2:B:466:LYS:HA	2:B:473:LEU:HA	2.00	0.42
3:C:1173:LEU:HD12	3:C:1191:PHE:CZ	2.53	0.42
3:C:2087:GLU:HB2	3:C:2731:ARG:HH22	1.83	0.42
3:C:2884:LEU:HD12	3:C:2884:LEU:HA	1.70	0.42
3:C:3684:SER:HB3	3:C:3687:MET:CE	2.49	0.42
3:C:3946:PHE:HE2	3:C:4043:LYS:HG3	1.84	0.42
1:J:90:THR:HG23	1:J:92:LYS:O	2.19	0.42
1:J:317:LYS:N	2:K:279:VAL:O	2.44	0.42
1:J:358:LYS:HA	2:K:353:ARG:HH11	1.84	0.42
1:J:404:ARG:O	1:J:406:ILE:HG12	2.19	0.42
1:J:405:ASN:CG	3:L:212:VAL:HG21	2.39	0.42
3:L:736:LEU:HB3	3:L:740:ILE:HG21	2.00	0.42
3:L:1018:VAL:CG2	3:L:1074:LYS:HG2	2.49	0.42
3:L:1759:LEU:O	3:L:1763:THR:HG23	2.19	0.42
3:L:1785:ILE:HG13	3:L:1786:ALA:N	2.34	0.42
3:L:1922:ALA:O	3:L:1941:HIS:ND1	2.48	0.42
3:L:2165:LEU:HD13	3:L:2202:PRO:HG2	1.99	0.42
3:L:2726:LEU:HD11	3:L:2729:ARG:NH2	2.34	0.42
6:N:2:DT:N3	6:N:3:DG:C5	2.86	0.42
9:X:664:PHE:O	9:X:690:VAL:HB	2.18	0.42
9:Y:722:LYS:HE2	9:Y:725:TRP:N	2.34	0.42
1:A:358:LYS:HA	2:B:353:ARG:NH1	2.34	0.42
1:A:405:ASN:CG	3:C:212:VAL:HG21	2.40	0.42
3:C:185:HIS:CD2	3:C:188:GLU:H	2.37	0.42
3:C:888:ARG:NH1	3:C:3932:MET:HG2	2.34	0.42
3:C:1931:ASN:OD1	3:C:1933:LEU:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1963:GLN:CG	3:C:2125:TRP:HZ3	2.32	0.42
3:C:1984:LEU:HD23	3:C:1985:LYS:H	1.83	0.42
3:C:2140:LEU:HD12	3:C:2141:ASN:N	2.35	0.42
3:C:2580:PRO:HD3	3:C:2784:GLN:CD	2.40	0.42
3:C:3968:ILE:H	3:C:3968:ILE:HD12	1.85	0.42
5:D:9:DC:C2	5:D:10:DT:C6	3.08	0.42
3:L:573:LEU:HD12	3:L:652:GLU:OE1	2.19	0.42
3:L:796:LEU:HD23	3:L:796:LEU:HA	1.74	0.42
3:L:873:VAL:HG12	3:L:874:THR:N	2.34	0.42
3:L:1180:GLN:H	3:L:1180:GLN:CD	2.22	0.42
3:L:1902:GLY:HA2	3:L:1905:ILE:HG23	2.01	0.42
3:L:2311:ARG:O	3:L:2312:TYR:HD1	2.02	0.42
3:L:2580:PRO:HD3	3:L:2784:GLN:CD	2.40	0.42
3:L:3180:ASP:O	3:L:3184:THR:HG23	2.19	0.42
3:L:3196:LYS:HD2	3:L:3196:LYS:C	2.40	0.42
3:L:3324:ARG:HG2	3:L:3391:ALA:HB1	2.01	0.42
3:L:3636:PHE:CZ	3:L:3666:LEU:HG	2.54	0.42
3:L:3811:THR:HA	3:L:3929:MET:SD	2.60	0.42
3:L:3862:ALA:HB1	3:L:4119:ARG:HH12	1.84	0.42
3:L:3862:ALA:CB	3:L:4119:ARG:HH22	2.31	0.42
9:Y:673:GLN:HA	9:Y:674:PRO:HD3	1.87	0.42
1:A:145:GLU:O	1:A:149:VAL:HG23	2.18	0.42
2:B:341:SER:C	2:B:393:VAL:HG13	2.40	0.42
3:C:249:PHE:CZ	3:C:253:LEU:HD21	2.54	0.42
3:C:258:PRO:O	3:C:260:ILE:N	2.52	0.42
3:C:573:LEU:HD12	3:C:652:GLU:OE1	2.19	0.42
3:C:741:ILE:HA	3:C:748:TYR:HE2	1.83	0.42
3:C:796:LEU:HD23	3:C:796:LEU:HA	1.74	0.42
3:C:1134:LEU:HD13	3:C:1137:ILE:HD11	2.02	0.42
3:C:1593:VAL:O	3:C:1597:LEU:HD23	2.18	0.42
3:C:1684:LEU:HB2	3:C:1688:LEU:HD23	2.01	0.42
3:C:2205:VAL:HB	3:C:2206:PRO:HD2	2.00	0.42
3:C:3033:GLU:HB2	3:C:3034:PRO:HD2	2.01	0.42
3:C:3487:ILE:HG23	3:C:3517:SER:HB2	2.01	0.42
3:C:4085:LYS:HE3	3:C:4085:LYS:HB3	1.72	0.42
1:J:148:TRP:CZ3	1:J:189:LYS:HE3	2.54	0.42
2:K:203:GLU:O	2:K:207:ILE:HG12	2.19	0.42
3:L:240:GLU:O	3:L:244:THR:OG1	2.34	0.42
3:L:773:LEU:HD22	3:L:858:MET:SD	2.60	0.42
3:L:1168:LEU:O	3:L:1171:TRP:HB3	2.19	0.42
3:L:1208:LEU:HA	3:L:1211:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1593:VAL:O	3:L:1597:LEU:HD23	2.18	0.42
3:L:1984:LEU:HD23	3:L:1985:LYS:H	1.83	0.42
3:L:2594:ASP:O	3:L:2596:ARG:HG3	2.20	0.42
3:L:2884:LEU:HD23	3:L:3128:LYS:HG2	2.01	0.42
3:L:3016:THR:O	3:L:3019:ILE:HG22	2.20	0.42
3:L:3242:MET:CE	3:L:3258:LEU:HG	2.49	0.42
3:L:3722:PHE:CB	3:L:3740:ILE:HA	2.47	0.42
3:L:3835:PRO:O	3:L:3836:PRO:C	2.58	0.42
6:N:13:DG:C6	6:N:14:DA:C6	3.08	0.42
1:A:68:GLN:HE22	1:A:123:LYS:HB2	1.84	0.42
1:A:263:LEU:HD21	1:A:385:LEU:HD11	2.02	0.42
1:A:396:ALA:HB3	1:A:413:LEU:HB2	2.02	0.42
2:B:14:MET:O	2:B:59:PHE:N	2.52	0.42
2:B:118:ILE:HG23	2:B:122:THR:HG21	2.00	0.42
3:C:14:ARG:O	3:C:18:THR:HG23	2.19	0.42
3:C:395:MET:HG2	3:C:413:PHE:CD1	2.54	0.42
3:C:680:ILE:O	3:C:681:LYS:HG2	2.20	0.42
3:C:934:LEU:HD12	3:C:934:LEU:HA	1.84	0.42
3:C:1871:MET:O	3:C:1875:LYS:HG3	2.19	0.42
3:C:2404:ARG:NH1	3:C:2406:GLU:OE2	2.53	0.42
3:C:3008:TRP:CZ3	3:C:3050:LYS:HB3	2.55	0.42
3:C:3242:MET:CE	3:C:3258:LEU:HG	2.49	0.42
3:C:3859:TYR:CG	3:C:4077:TYR:HE1	2.38	0.42
3:C:3985:VAL:HG12	3:C:3989:ARG:HH12	1.85	0.42
5:D:5:DA:N6	6:E:25:DC:N3	2.68	0.42
5:D:8:DA:N1	6:E:22:DG:N2	2.67	0.42
6:E:6:DA:C2	6:E:7:DT:C4	3.07	0.42
1:J:416:GLN:HG2	1:J:433:GLN:HG3	2.01	0.42
2:K:465:LYS:HG2	2:K:474:GLU:CB	2.49	0.42
3:L:258:PRO:O	3:L:260:ILE:N	2.52	0.42
3:L:291:VAL:HG23	3:L:292:SER:N	2.34	0.42
3:L:395:MET:HG2	3:L:413:PHE:CD1	2.54	0.42
3:L:493:LYS:HD3	3:L:495:VAL:H	1.85	0.42
3:L:571:SER:O	3:L:575:ILE:HG22	2.19	0.42
3:L:1350:ASN:CG	3:L:1405:ALA:HB1	2.40	0.42
3:L:2470:ARG:NH1	3:L:2517:LEU:HD12	2.35	0.42
3:L:2501:LEU:HD12	3:L:2501:LEU:HA	1.83	0.42
3:L:2563:LEU:O	3:L:2566:THR:HB	2.18	0.42
3:L:3008:TRP:CZ3	3:L:3050:LYS:CB	3.03	0.42
3:L:3487:ILE:HG23	3:L:3517:SER:HB2	2.01	0.42
3:L:3835:PRO:CB	3:L:3840:LYS:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3985:VAL:HG12	3:L:3989:ARG:HH12	1.85	0.42
5:M:10:DT:H2"	5:M:11:DC:H6	1.85	0.42
6:N:13:DG:C5	6:N:14:DA:C5	3.07	0.42
1:A:143:LEU:HD11	1:A:216:PHE:HE2	1.85	0.42
1:A:211:PHE:CE2	1:A:232:HIS:CE1	3.08	0.42
1:A:340:PHE:HZ	2:B:489:ARG:HB2	1.85	0.42
1:A:440:ALA:O	2:B:239:LYS:HE3	2.18	0.42
3:C:906:PHE:HB3	3:C:908:ASP:OD1	2.19	0.42
3:C:1457:GLN:O	3:C:1460:ARG:HB2	2.19	0.42
3:C:1650:ALA:O	3:C:1654:GLN:HG2	2.19	0.42
3:C:1785:ILE:HG13	3:C:1786:ALA:N	2.34	0.42
3:C:2184:TYR:CZ	3:C:2188:GLU:OE2	2.72	0.42
3:C:2260:PHE:HB2	3:C:2270:ASN:OD1	2.20	0.42
3:C:2311:ARG:O	3:C:2312:TYR:HD1	2.03	0.42
3:C:3006:ALA:C	3:C:3008:TRP:HD1	2.22	0.42
3:C:3008:TRP:CZ3	3:C:3050:LYS:CB	3.03	0.42
3:C:3528:ALA:HB2	3:C:3705:TYR:CE2	2.55	0.42
1:J:440:ALA:O	2:K:239:LYS:HE3	2.19	0.42
2:K:15:ASP:HA	2:K:59:PHE:O	2.19	0.42
2:K:167:PHE:HE1	2:K:205:LEU:HD13	1.85	0.42
3:L:249:PHE:CZ	3:L:253:LEU:HD21	2.54	0.42
3:L:1605:PHE:CE1	3:L:1608:ARG:HD3	2.55	0.42
3:L:2087:GLU:HB2	3:L:2731:ARG:HH22	1.83	0.42
3:L:2219:LEU:HB3	3:L:2238:ILE:HD12	2.02	0.42
3:L:2995:GLU:O	3:L:2998:SER:OG	2.26	0.42
3:L:3855:TYR:HA	3:L:3858:MET:HE2	2.02	0.42
3:L:3968:ILE:H	3:L:3968:ILE:HD12	1.85	0.42
5:M:11:DC:C2	5:M:12:DT:C5	3.08	0.42
7:O:116:VAL:CG1	7:O:117:GLU:H	2.31	0.42
1:A:269:ILE:HB	1:A:378:SER:HB2	2.02	0.42
2:B:465:LYS:HG2	2:B:474:GLU:CB	2.49	0.42
3:C:156:PHE:HB3	3:C:178:LEU:HD21	2.01	0.42
3:C:571:SER:O	3:C:575:ILE:HG22	2.19	0.42
3:C:627:VAL:HG21	3:C:665:GLY:HA3	2.01	0.42
3:C:643:GLU:HB2	3:C:644:PRO:HD3	2.01	0.42
3:C:713:GLU:HG3	3:C:717:LYS:HE2	2.01	0.42
3:C:2283:ASN:OD1	3:C:2284:ASP:N	2.50	0.42
3:C:2443:MET:HG3	3:C:2479:TRP:CZ3	2.54	0.42
3:C:2726:LEU:HD11	3:C:2729:ARG:NH2	2.34	0.42
3:C:3013:TYR:CE2	7:F:269:SER:O	2.73	0.42
3:C:3461:ALA:O	3:C:3464:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3519:GLU:CD	3:C:3557:ARG:HH12	2.23	0.42
3:C:3680:LEU:HB3	3:C:3682:GLU:HB2	2.01	0.42
3:C:3699:LEU:HD23	3:C:3699:LEU:HA	1.81	0.42
3:C:3774:ILE:O	3:C:3777:GLN:HG3	2.20	0.42
3:C:3793:VAL:HG22	3:C:3803:ILE:HD12	2.02	0.42
3:C:3813:LYS:HD3	3:C:3926:ASN:CG	2.40	0.42
5:D:26:DT:H2''	5:D:27:DA:H5''	2.00	0.42
7:G:116:VAL:CG1	7:G:117:GLU:H	2.31	0.42
1:J:263:LEU:HD21	1:J:385:LEU:HD11	2.02	0.42
3:L:345:PHE:HE2	3:L:366:TYR:HA	1.84	0.42
3:L:379:LYS:HA	3:L:379:LYS:HD2	1.78	0.42
3:L:446:PHE:CD1	3:L:446:PHE:C	2.93	0.42
3:L:1135:CYS:SG	3:L:1194:PHE:CE1	3.12	0.42
3:L:1154:PRO:HB2	3:L:1157:PHE:CD1	2.55	0.42
3:L:1430:GLU:O	3:L:1433:ALA:N	2.53	0.42
3:L:1487:VAL:HG21	3:L:1563:PHE:CE2	2.55	0.42
3:L:3008:TRP:CZ3	3:L:3050:LYS:HB3	2.54	0.42
3:L:3774:ILE:O	3:L:3777:GLN:HG3	2.20	0.42
9:X:824:ALA:HB2	9:X:833:ASN:ND2	2.29	0.42
1:A:78:SER:C	1:A:80:ARG:H	2.23	0.42
1:A:148:TRP:CZ3	1:A:189:LYS:HE3	2.54	0.42
2:B:15:ASP:HA	2:B:59:PHE:O	2.19	0.42
2:B:203:GLU:O	2:B:207:ILE:HG12	2.19	0.42
3:C:128:LEU:HA	3:C:128:LEU:HD13	1.80	0.42
3:C:291:VAL:HG23	3:C:292:SER:N	2.34	0.42
3:C:575:ILE:HG21	3:C:626:LEU:HD11	2.02	0.42
3:C:1649:LEU:O	3:C:1652:ILE:HG22	2.19	0.42
3:C:3449:LYS:HB3	3:C:3449:LYS:HE3	1.86	0.42
3:C:3835:PRO:O	3:C:3836:PRO:C	2.58	0.42
5:D:10:DT:H2''	5:D:11:DC:H6	1.85	0.42
6:E:13:DG:C6	6:E:14:DA:C6	3.08	0.42
7:F:267:ALA:HA	7:F:268:PRO:HD3	1.95	0.42
1:J:346:MET:HG3	1:J:399:ARG:NH2	2.34	0.42
1:J:362:LEU:HD11	2:K:269:GLN:HB2	2.01	0.42
2:K:476:LEU:HD23	2:K:476:LEU:HA	1.85	0.42
3:L:14:ARG:O	3:L:18:THR:HG23	2.19	0.42
3:L:293:LEU:O	3:L:297:LEU:HD23	2.20	0.42
3:L:1044:ILE:HD12	3:L:1044:ILE:HA	1.92	0.42
3:L:1331:ASN:HA	3:L:1334:LYS:NZ	2.28	0.42
3:L:2853:PRO:CG	3:L:3116:SER:HB2	2.50	0.42
3:L:3145:ILE:HD11	3:L:3193:ILE:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3684:SER:HB3	3:L:3687:MET:CE	2.50	0.42
3:L:3761:ASP:HA	3:L:3764:VAL:HG12	2.00	0.42
3:L:3859:TYR:CG	3:L:4077:TYR:HE1	2.38	0.42
7:O:68:GLY:HA2	7:O:71:ARG:HG2	2.01	0.42
1:A:175:PRO:HB2	1:A:176:HIS:HD1	1.85	0.42
1:A:404:ARG:O	1:A:406:ILE:HG12	2.19	0.42
3:C:32:HIS:ND1	3:C:33:GLN:HG3	2.34	0.42
3:C:55:THR:HG22	3:C:92:PHE:CE2	2.55	0.42
3:C:493:LYS:HZ2	3:C:495:VAL:HG22	1.83	0.42
3:C:1250:LEU:O	3:C:1252:ALA:N	2.52	0.42
3:C:1350:ASN:CG	3:C:1405:ALA:HB1	2.40	0.42
3:C:1487:VAL:HG21	3:C:1563:PHE:CE2	2.55	0.42
3:C:1718:ILE:HA	3:C:1722:PHE:CD2	2.55	0.42
3:C:2853:PRO:CG	3:C:3116:SER:HB2	2.50	0.42
3:C:2931:ARG:HH12	3:C:2960:GLU:CD	2.23	0.42
3:C:3510:GLN:O	3:C:3512:VAL:N	2.53	0.42
3:C:3526:PRO:O	3:C:3529:ILE:HG22	2.19	0.42
3:C:3528:ALA:HB2	3:C:3705:TYR:HD2	1.84	0.42
3:C:3806:LEU:HD13	3:C:3806:LEU:HA	1.91	0.42
3:C:3862:ALA:HB1	3:C:4119:ARG:HH12	1.84	0.42
3:C:4125:GLU:HG3	3:C:4127:TRP:CE2	2.54	0.42
4:Q:6005:UNK:O	4:Q:6009:UNK:N	2.53	0.42
5:D:8:DA:H2'	5:D:9:DC:H6	1.83	0.42
6:E:19:DA:C6	6:E:20:DG:C6	3.07	0.42
7:F:106:PHE:CD2	8:H:112:LEU:HD21	2.54	0.42
8:H:208:LYS:O	8:H:212:MET:SD	2.78	0.42
1:J:143:LEU:HD11	1:J:216:PHE:HE2	1.85	0.42
1:J:329:LEU:HD13	2:K:276:TRP:CH2	2.54	0.42
1:J:358:LYS:HA	2:K:353:ARG:NH1	2.34	0.42
2:K:14:MET:O	2:K:59:PHE:N	2.52	0.42
3:L:156:PHE:HB3	3:L:178:LEU:HD21	2.01	0.42
3:L:888:ARG:NH1	3:L:3932:MET:HG2	2.34	0.42
3:L:892:LEU:HD21	3:L:941:MET:HG3	2.02	0.42
3:L:906:PHE:HB3	3:L:908:ASP:OD1	2.19	0.42
3:L:1010:LEU:HD12	3:L:1010:LEU:HA	1.79	0.42
3:L:1468:LEU:HD12	3:L:1469:PRO:HD2	2.02	0.42
3:L:1586:SER:HB2	3:L:1589:ASN:HD22	1.84	0.42
3:L:1649:LEU:O	3:L:1652:ILE:HG22	2.19	0.42
3:L:1696:LEU:CB	3:L:1758:LEU:HD21	2.47	0.42
3:L:1788:ARG:O	3:L:1794:GLN:NE2	2.53	0.42
3:L:2746:LYS:O	3:L:2750:GLU:OE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2972:TYR:CE1	3:L:2994:TRP:HA	2.53	0.42
3:L:3742:GLY:O	3:L:3743:HIS:C	2.58	0.42
3:L:3908:HIS:HA	3:L:3911:ILE:HG22	2.01	0.42
3:L:3913:ILE:HD12	3:L:3913:ILE:HA	1.78	0.42
3:L:4125:GLU:HG3	3:L:4127:TRP:CE2	2.54	0.42
5:M:9:DC:N3	5:M:10:DT:C4	2.87	0.42
2:B:129:LYS:HZ2	2:B:129:LYS:HG2	1.67	0.42
2:B:365:PHE:HE1	2:B:418:CYS:HA	1.85	0.42
2:B:465:LYS:N	2:B:474:GLU:H	2.15	0.42
3:C:446:PHE:CD1	3:C:446:PHE:C	2.93	0.42
3:C:477:ASN:O	3:C:481:THR:HG23	2.19	0.42
3:C:530:LEU:O	3:C:534:LEU:HD23	2.19	0.42
3:C:717:LYS:HB3	3:C:721:TYR:CZ	2.55	0.42
3:C:800:LEU:HD13	3:C:3114:TYR:CE1	2.55	0.42
3:C:1695:LEU:HD22	3:C:1699:PHE:CE2	2.55	0.42
3:C:1911:LEU:HA	3:C:1914:THR:HG23	2.02	0.42
3:C:2120:ARG:HB2	3:C:2160:TYR:HE1	1.83	0.42
3:C:2594:ASP:O	3:C:2596:ARG:HG3	2.19	0.42
3:C:2746:LYS:O	3:C:2750:GLU:OE1	2.38	0.42
7:G:51:GLU:HA	7:G:54:GLN:HB3	2.00	0.42
8:I:208:LYS:HG2	8:I:212:MET:SD	2.59	0.42
1:J:345:LEU:HA	1:J:399:ARG:O	2.19	0.42
2:K:407:VAL:O	2:K:421:TYR:HD1	2.03	0.42
3:L:32:HIS:ND1	3:L:33:GLN:HG3	2.34	0.42
3:L:793:LEU:O	3:L:796:LEU:HB2	2.20	0.42
3:L:1256:TRP:HZ2	3:L:1292:LYS:HD3	1.85	0.42
3:L:1457:GLN:O	3:L:1460:ARG:HB2	2.19	0.42
3:L:1985:LYS:CG	3:L:1987:ARG:HH12	2.28	0.42
3:L:3236:PHE:HZ	3:L:3268:THR:HG21	1.85	0.42
3:L:3526:PRO:O	3:L:3529:ILE:HG22	2.19	0.42
3:L:3813:LYS:HD3	3:L:3926:ASN:CG	2.40	0.42
5:M:9:DC:C2	5:M:10:DT:C6	3.08	0.42
9:Y:722:LYS:NZ	9:Y:742:PHE:HA	2.35	0.42
1:A:41:LEU:HD12	1:A:86:VAL:O	2.20	0.42
1:A:329:LEU:HD13	2:B:276:TRP:CH2	2.55	0.42
1:A:505:ASP:OD1	1:A:506:LEU:N	2.53	0.42
3:C:257:ARG:HB2	3:C:257:ARG:CZ	2.50	0.42
3:C:333:MET:HB3	3:C:337:LYS:NZ	2.35	0.42
3:C:453:MET:HA	3:C:456:VAL:HG12	2.02	0.42
3:C:573:LEU:O	3:C:576:VAL:HG12	2.20	0.42
3:C:773:LEU:HD22	3:C:858:MET:SD	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1071:ASN:OD1	3:C:1072:ALA:N	2.53	0.42
3:C:1142:HIS:CD2	3:C:1197:LEU:HD12	2.55	0.42
3:C:1430:GLU:O	3:C:1433:ALA:N	2.53	0.42
3:C:1468:LEU:HD12	3:C:1469:PRO:HD2	2.02	0.42
3:C:2602:LEU:O	3:C:2605:MET:HE1	2.20	0.42
3:C:3196:LYS:HD2	3:C:3196:LYS:C	2.40	0.42
3:C:3324:ARG:HG2	3:C:3391:ALA:HB1	2.01	0.42
3:C:3486:GLU:C	3:C:3488:SER:N	2.71	0.42
3:C:3742:GLY:O	3:C:3743:HIS:C	2.59	0.42
3:C:3976:GLU:O	3:C:3977:THR:OG1	2.27	0.42
7:F:134:ILE:CA	7:G:134:ILE:HG12	2.45	0.42
7:G:91:GLU:H	7:G:91:GLU:CD	2.22	0.42
1:J:68:GLN:HE22	1:J:123:LYS:HB2	1.84	0.42
1:J:261:LEU:HA	1:J:345:LEU:HB2	2.01	0.42
1:J:361:TYR:HB2	2:K:353:ARG:HH22	1.85	0.42
2:K:281:ALA:C	2:K:283:THR:H	2.22	0.42
2:K:334:LYS:O	2:K:335:SER:OG	2.35	0.42
2:K:365:PHE:HE1	2:K:418:CYS:HA	1.85	0.42
3:L:35:ILE:HD12	3:L:35:ILE:HA	1.96	0.42
3:L:242:PRO:HA	3:L:246:ARG:CZ	2.50	0.42
3:L:573:LEU:O	3:L:576:VAL:HG12	2.20	0.42
3:L:575:ILE:HG21	3:L:626:LEU:HD11	2.02	0.42
3:L:1250:LEU:O	3:L:1252:ALA:N	2.52	0.42
3:L:1650:ALA:O	3:L:1654:GLN:HG2	2.20	0.42
3:L:1684:LEU:HB2	3:L:1688:LEU:HD23	2.01	0.42
3:L:1695:LEU:HD22	3:L:1699:PHE:CE2	2.55	0.42
3:L:1794:GLN:O	3:L:1798:LEU:HG	2.20	0.42
3:L:1911:LEU:HA	3:L:1914:THR:HG23	2.02	0.42
3:L:2855:VAL:HG12	3:L:2859:GLN:HE22	1.85	0.42
3:L:3107:ILE:HD13	3:L:3135:LEU:HD13	2.02	0.42
3:L:3386:SER:O	3:L:3389:VAL:HG12	2.19	0.42
3:L:3681:LYS:HD3	3:L:3726:VAL:HB	2.01	0.42
3:L:3774:ILE:HD13	3:L:3997:LEU:HD13	2.02	0.42
3:L:3871:PHE:HA	3:L:3874:ARG:HG2	2.02	0.42
4:R:6005:UNK:O	4:R:6009:UNK:N	2.53	0.42
5:M:5:DA:N6	6:N:25:DC:N3	2.68	0.42
5:M:8:DA:N1	6:N:22:DG:N2	2.67	0.42
6:N:25:DC:H2"	6:N:26:DT:C7	2.50	0.42
9:X:706:ASN:HD21	9:X:708:ARG:HB2	1.84	0.42
1:A:452:ILE:HD12	2:B:375:VAL:HB	2.02	0.41
2:B:251:LEU:HD13	2:B:340:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:377:LEU:O	2:B:380:LEU:HB3	2.19	0.41
3:C:722:LYS:CG	3:C:723:ASP:H	2.28	0.41
3:C:1137:ILE:O	3:C:1140:LYS:HG3	2.20	0.41
3:C:1209:LYS:HA	3:C:1212:LEU:HG	2.01	0.41
3:C:1443:VAL:HG13	3:C:1447:ARG:HH12	1.84	0.41
3:C:1844:VAL:O	3:C:1848:ILE:HG12	2.20	0.41
3:C:2451:LEU:HD21	3:C:2480:ILE:HD12	2.01	0.41
3:C:2548:PRO:O	3:C:2551:GLU:HB2	2.20	0.41
3:C:2942:ILE:H	3:C:2942:ILE:HD12	1.85	0.41
3:C:3774:ILE:HD13	3:C:3997:LEU:HD13	2.02	0.41
5:D:9:DC:N3	5:D:10:DT:C4	2.87	0.41
5:D:11:DC:C2	5:D:12:DT:C5	3.08	0.41
5:D:24:DA:H61	6:E:6:DA:N6	2.18	0.41
7:G:73:ALA:HA	7:G:84:TYR:CD2	2.55	0.41
1:J:41:LEU:HD12	1:J:86:VAL:O	2.19	0.41
3:L:746:ARG:HG3	3:L:788:TYR:CZ	2.54	0.41
3:L:864:GLY:HA2	3:L:867:ASN:ND2	2.35	0.41
3:L:1480:GLY:O	3:L:1483:LEU:HB3	2.20	0.41
3:L:1844:VAL:O	3:L:1848:ILE:HG12	2.20	0.41
3:L:2168:LEU:HD11	3:L:2189:ILE:HD12	2.02	0.41
3:L:2404:ARG:NH1	3:L:2406:GLU:OE2	2.53	0.41
1:A:317:LYS:HZ3	1:A:330:GLU:HA	1.84	0.41
1:A:491:GLU:HG3	2:B:316:TYR:HE2	1.84	0.41
1:A:521:LEU:HA	1:A:524:GLU:CD	2.41	0.41
2:B:148:ASP:OD1	2:B:149:ILE:N	2.51	0.41
2:B:167:PHE:CZ	2:B:205:LEU:HB2	2.55	0.41
2:B:167:PHE:HE1	2:B:205:LEU:HD13	1.85	0.41
3:C:363:ILE:HG21	3:C:413:PHE:CD2	2.56	0.41
3:C:939:MET:HE3	3:C:2782:ASP:OD1	2.20	0.41
3:C:994:TRP:HE3	3:C:2780:LEU:HD12	1.85	0.41
3:C:1427:SER:O	3:C:1431:LEU:HB2	2.20	0.41
3:C:1452:VAL:HG11	3:C:1514:LEU:HD22	2.03	0.41
3:C:1605:PHE:CE1	3:C:1608:ARG:HD3	2.55	0.41
3:C:1629:CYS:O	3:C:1632:TRP:N	2.53	0.41
3:C:1675:TYR:CD1	3:C:1695:LEU:HD21	2.55	0.41
3:C:1675:TYR:CE1	3:C:1695:LEU:HD21	2.55	0.41
3:C:1853:SER:OG	3:C:1854:ARG:N	2.52	0.41
3:C:2219:LEU:HB3	3:C:2238:ILE:HD12	2.02	0.41
3:C:2855:VAL:HG12	3:C:2859:GLN:HE22	1.85	0.41
3:C:2856:SER:HB3	3:C:2885:GLN:CD	2.41	0.41
3:C:3016:THR:O	3:C:3019:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3145:ILE:HD11	3:C:3193:ILE:HG12	2.02	0.41
3:C:3263:HIS:O	3:C:3265:GLU:N	2.54	0.41
3:C:3574:ALA:HB1	3:C:3687:MET:SD	2.60	0.41
3:C:3731:SER:C	3:C:3734:ARG:HH11	2.22	0.41
3:C:3811:THR:HA	3:C:3929:MET:SD	2.60	0.41
3:C:3835:PRO:HB3	3:C:3840:LYS:HB2	2.02	0.41
3:C:3872:ARG:HD3	3:C:3872:ARG:HA	1.85	0.41
5:D:6:DG:H2''	5:D:7:DA:O4'	2.20	0.41
8:H:215:GLN:O	8:H:219:MET:SD	2.78	0.41
1:J:99:PHE:CD2	1:J:145:GLU:HG2	2.55	0.41
1:J:326:GLN:HE22	1:J:328:ILE:CD1	2.33	0.41
2:K:167:PHE:CZ	2:K:205:LEU:HB2	2.55	0.41
3:L:372:PRO:O	3:L:376:ILE:HG12	2.21	0.41
3:L:925:GLN:OE1	3:L:2769:VAL:HA	2.20	0.41
3:L:1137:ILE:O	3:L:1140:LYS:HG3	2.20	0.41
3:L:1418:HIS:HA	3:L:1422:LYS:CE	2.50	0.41
3:L:1675:TYR:CD1	3:L:1695:LEU:HD21	2.55	0.41
3:L:1718:ILE:HA	3:L:1722:PHE:CD2	2.55	0.41
3:L:1884:LEU:HD23	3:L:1884:LEU:HA	1.91	0.41
3:L:3468:LEU:HD12	3:L:3468:LEU:HA	1.81	0.41
3:L:3714:GLU:HG2	3:L:3715:TYR:HD2	1.85	0.41
3:L:3956:PRO:HG3	3:L:4077:TYR:OH	2.20	0.41
6:N:6:DA:C2	6:N:7:DT:C4	3.07	0.41
9:X:673:GLN:HA	9:X:674:PRO:HD3	1.87	0.41
1:A:104:VAL:HG13	1:A:104:VAL:O	2.20	0.41
3:C:174:VAL:O	3:C:178:LEU:HD23	2.21	0.41
3:C:286:LEU:HD12	3:C:319:PHE:HE1	1.81	0.41
3:C:426:THR:OG1	3:C:427:VAL:N	2.53	0.41
3:C:578:LYS:NZ	4:Q:6006:UNK:O	2.50	0.41
3:C:873:VAL:HG12	3:C:874:THR:N	2.34	0.41
3:C:1467:ILE:H	3:C:1467:ILE:HD12	1.84	0.41
3:C:1480:GLY:O	3:C:1483:LEU:HB3	2.20	0.41
3:C:1506:SER:O	3:C:1509:GLN:HG3	2.20	0.41
3:C:1782:PHE:HA	3:C:1785:ILE:HG12	2.02	0.41
3:C:1806:ARG:HG3	3:C:1873:TYR:OH	2.21	0.41
3:C:2182:ILE:HD12	3:C:2182:ILE:N	2.34	0.41
3:C:3295:GLU:OE1	3:C:3295:GLU:N	2.50	0.41
3:C:3767:LEU:HD21	3:C:4002:MET:HB2	2.02	0.41
3:C:3964:THR:O	3:C:3968:ILE:HD12	2.20	0.41
1:J:452:ILE:HD12	2:K:375:VAL:HB	2.02	0.41
3:L:80:GLU:OE1	3:L:80:GLU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:640:GLU:OE2	3:L:680:ILE:HD11	2.21	0.41
3:L:1265:GLU:HA	3:L:1268:ASN:OD1	2.20	0.41
3:L:1443:VAL:HG13	3:L:1447:ARG:HH12	1.84	0.41
3:L:1676:ILE:HD13	3:L:1676:ILE:HA	1.92	0.41
3:L:2451:LEU:HD21	3:L:2480:ILE:HD12	2.01	0.41
3:L:2535:THR:OG1	3:L:2536:LEU:N	2.54	0.41
3:L:3169:PRO:HD2	3:L:3179:TRP:CZ2	2.55	0.41
3:L:3528:ALA:HB2	3:L:3705:TYR:HD2	1.84	0.41
3:L:3738:ILE:HG22	3:L:3739:ILE:N	2.36	0.41
3:L:3872:ARG:HH12	3:L:4114:PRO:HB3	1.83	0.41
6:N:12:DT:N3	6:N:13:DG:C6	2.89	0.41
7:P:18:HIS:HB3	7:P:36:LEU:HD11	2.02	0.41
9:X:725:TRP:CD1	9:X:742:PHE:CD2	3.09	0.41
9:Y:731:LYS:HA	9:Y:731:LYS:HE2	2.01	0.41
1:A:363:ARG:HB2	1:A:364:PRO:CD	2.43	0.41
3:C:10:CYS:SG	3:C:11:SER:N	2.93	0.41
3:C:23:ASP:O	3:C:27:ALA:N	2.42	0.41
3:C:179:GLY:O	3:C:181:LEU:N	2.53	0.41
3:C:293:LEU:O	3:C:297:LEU:HD23	2.20	0.41
3:C:640:GLU:OE2	3:C:680:ILE:HD11	2.20	0.41
3:C:1813:SER:HA	3:C:1816:ARG:HG3	2.02	0.41
3:C:2122:LEU:HD23	3:C:2126:MET:CE	2.51	0.41
3:C:2539:LEU:HD12	3:C:2539:LEU:HA	1.80	0.41
3:C:3078:LEU:HD23	3:C:3078:LEU:HA	1.84	0.41
3:C:3300:VAL:O	3:C:3304:VAL:N	2.42	0.41
3:C:3360:LEU:O	3:C:3364:GLY:N	2.53	0.41
3:C:3871:PHE:HA	3:C:3874:ARG:HG2	2.02	0.41
3:C:3963:LEU:O	3:C:3968:ILE:HD11	2.20	0.41
6:E:18:DC:C4	6:E:19:DA:C5	3.08	0.41
6:E:25:DC:H2"	6:E:26:DT:C7	2.50	0.41
8:H:7:GLY:HA3	8:H:28:PHE:CE2	2.55	0.41
2:K:129:LYS:NZ	2:K:131:HIS:CD2	2.88	0.41
2:K:377:LEU:O	2:K:380:LEU:HB3	2.19	0.41
3:L:10:CYS:SG	3:L:11:SER:N	2.93	0.41
3:L:1071:ASN:OD1	3:L:1072:ALA:N	2.53	0.41
3:L:1134:LEU:HD13	3:L:1137:ILE:HD11	2.02	0.41
3:L:1467:ILE:HD12	3:L:1467:ILE:H	1.84	0.41
3:L:1697:PRO:HG3	3:L:1749:ALA:HA	2.03	0.41
3:L:1808:ASP:OD1	3:L:1808:ASP:N	2.53	0.41
3:L:1853:SER:OG	3:L:1854:ARG:N	2.52	0.41
3:L:3033:GLU:HB2	3:L:3034:PRO:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3263:HIS:O	3:L:3265:GLU:N	2.54	0.41
3:L:3461:ALA:O	3:L:3464:LYS:HG2	2.19	0.41
3:L:3530:VAL:HG13	3:L:3531:TYR:N	2.35	0.41
3:L:3786:LEU:HA	3:L:3786:LEU:HD23	1.84	0.41
3:L:3999:THR:OG1	3:L:4000:ASN:N	2.53	0.41
6:N:23:DT:O2	6:N:24:DT:N3	2.53	0.41
7:O:73:ALA:HA	7:O:84:TYR:CD2	2.55	0.41
9:X:726:LEU:O	9:X:730:PHE:HD1	2.04	0.41
1:A:65:GLN:OE1	1:A:65:GLN:HA	2.21	0.41
1:A:261:LEU:HA	1:A:345:LEU:HB2	2.01	0.41
2:B:281:ALA:C	2:B:283:THR:H	2.22	0.41
2:B:332:LYS:O	2:B:334:LYS:HD3	2.21	0.41
3:C:863:GLY:O	3:C:867:ASN:N	2.43	0.41
3:C:864:GLY:HA2	3:C:867:ASN:CG	2.40	0.41
3:C:864:GLY:HA2	3:C:867:ASN:ND2	2.35	0.41
3:C:925:GLN:OE1	3:C:2769:VAL:HA	2.20	0.41
3:C:1168:LEU:O	3:C:1171:TRP:HB3	2.19	0.41
3:C:1586:SER:HB2	3:C:1589:ASN:HD22	1.84	0.41
3:C:2228:ARG:H	3:C:2228:ARG:HG2	1.55	0.41
3:C:2398:LEU:HD23	3:C:2398:LEU:HA	1.77	0.41
3:C:2579:HIS:CD2	3:L:949:PRO:CB	2.91	0.41
3:C:3602:ASN:O	3:C:3606:ILE:HG12	2.20	0.41
3:C:3714:GLU:HG2	3:C:3715:TYR:HD2	1.85	0.41
3:C:3757:ASP:HB2	3:C:3799:ARG:HH22	1.86	0.41
7:F:2:GLU:HB2	7:F:24:TRP:CZ2	2.56	0.41
1:J:46:LYS:HE2	1:J:46:LYS:HB2	1.79	0.41
1:J:320:GLN:NE2	2:K:276:TRP:CD2	2.89	0.41
1:J:480:ASN:CG	1:J:483:LEU:H	2.24	0.41
2:K:529:PRO:HA	2:K:532:LYS:NZ	2.36	0.41
3:L:55:THR:HG22	3:L:92:PHE:CE2	2.55	0.41
3:L:426:THR:OG1	3:L:427:VAL:N	2.53	0.41
3:L:680:ILE:O	3:L:681:LYS:HG2	2.20	0.41
3:L:864:GLY:HA2	3:L:867:ASN:CG	2.40	0.41
3:L:966:PHE:N	3:L:967:PRO:HD2	2.36	0.41
3:L:1142:HIS:CD2	3:L:1197:LEU:HD12	2.56	0.41
3:L:1649:LEU:HD22	3:L:1675:TYR:CZ	2.56	0.41
3:L:1820:VAL:HA	3:L:1824:LEU:CB	2.40	0.41
3:L:2122:LEU:HD23	3:L:2126:MET:CE	2.51	0.41
3:L:2290:PRO:HD2	3:L:2292:CYS:SG	2.60	0.41
3:L:3031:TRP:CZ3	3:L:3074:GLN:HA	2.56	0.41
3:L:3448:GLU:O	3:L:3448:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3519:GLU:CD	3:L:3557:ARG:HH12	2.23	0.41
3:L:3602:ASN:O	3:L:3606:ILE:HG12	2.20	0.41
3:L:3793:VAL:HG22	3:L:3803:ILE:HD12	2.02	0.41
3:L:3963:LEU:O	3:L:3968:ILE:HD11	2.20	0.41
5:M:6:DG:H2''	5:M:7:DA:O4'	2.20	0.41
5:M:19:DA:H1'	5:M:20:DG:H5'	2.01	0.41
9:Y:725:TRP:CD1	9:Y:742:PHE:CD2	3.08	0.41
1:A:361:TYR:HB2	2:B:353:ARG:HH22	1.86	0.41
2:B:144:LYS:HD3	2:B:207:ILE:HD12	2.02	0.41
2:B:198:THR:OG1	2:B:201:GLN:N	2.36	0.41
2:B:457:LEU:HD22	2:B:529:PRO:HB3	2.03	0.41
3:C:242:PRO:HA	3:C:246:ARG:CZ	2.50	0.41
3:C:381:VAL:O	3:C:384:MET:HG2	2.21	0.41
3:C:1913:LYS:O	3:C:1915:LEU:N	2.54	0.41
3:C:2177:ASN:O	3:C:2183:HIS:CE1	2.73	0.41
3:C:2520:ILE:HD13	3:C:2520:ILE:HA	1.84	0.41
3:C:2521:ILE:HD13	3:C:2521:ILE:HA	1.94	0.41
3:C:3138:ILE:HD12	3:C:3189:PHE:HZ	1.86	0.41
3:C:3498:TRP:O	3:C:3498:TRP:CE3	2.74	0.41
3:C:3576:ASP:O	3:C:3579:SER:OG	2.29	0.41
3:C:3739:ILE:HG23	3:C:3739:ILE:O	2.21	0.41
5:D:19:DA:H1'	5:D:20:DG:H5'	2.01	0.41
5:D:22:DA:C2	5:D:23:DG:C5	3.09	0.41
5:D:22:DA:N3	5:D:23:DG:C5	2.89	0.41
6:E:23:DT:O2	6:E:24:DT:N3	2.53	0.41
1:J:129:LYS:O	1:J:132:GLN:HG3	2.21	0.41
1:J:165:ARG:HH11	1:J:165:ARG:HG3	1.86	0.41
1:J:312:LEU:HD11	3:L:157:TYR:HE1	1.82	0.41
1:J:340:PHE:HZ	2:K:489:ARG:HB2	1.85	0.41
2:K:265:LYS:HZ3	5:M:9:DC:P	2.43	0.41
3:L:257:ARG:HB2	3:L:257:ARG:CZ	2.50	0.41
3:L:800:LEU:HD13	3:L:3114:TYR:CE1	2.55	0.41
3:L:1782:PHE:HA	3:L:1785:ILE:HG12	2.03	0.41
3:L:2140:LEU:HD12	3:L:2141:ASN:N	2.35	0.41
3:L:2240:THR:HA	3:L:2243:GLU:HG3	2.03	0.41
3:L:2548:PRO:O	3:L:2551:GLU:HB2	2.20	0.41
3:L:3141:PHE:CG	3:L:3189:PHE:HD1	2.39	0.41
3:L:3656:LEU:H	3:L:3656:LEU:HD23	1.86	0.41
1:A:245:LYS:HA	1:A:245:LYS:HD3	1.88	0.41
1:A:405:ASN:OD1	3:C:212:VAL:HG21	2.21	0.41
2:B:129:LYS:NZ	2:B:131:HIS:CD2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:450:GLN:HG2	2:B:537:PHE:CE1	2.56	0.41
3:C:242:PRO:HA	3:C:246:ARG:NH2	2.36	0.41
3:C:892:LEU:HD21	3:C:941:MET:HG3	2.02	0.41
3:C:966:PHE:N	3:C:967:PRO:HD2	2.36	0.41
3:C:1082:PHE:CD1	3:C:1085:ILE:HD11	2.56	0.41
3:C:1140:LYS:NZ	3:C:1141:LYS:HE2	2.36	0.41
3:C:1265:GLU:HA	3:C:1268:ASN:OD1	2.20	0.41
3:C:1538:LEU:HD11	3:C:1555:HIS:CD2	2.43	0.41
3:C:1828:LEU:HD21	3:C:1839:PHE:CD2	2.55	0.41
3:C:2218:PHE:HE1	3:C:2222:HIS:CE1	2.38	0.41
3:C:2290:PRO:HD2	3:C:2292:CYS:SG	2.60	0.41
3:C:2392:VAL:O	3:C:2395:THR:OG1	2.28	0.41
3:C:3019:ILE:HD11	3:C:3030:ILE:HA	2.02	0.41
3:C:3271:ASP:OD1	3:C:3272:TRP:N	2.54	0.41
6:E:12:DT:N3	6:E:13:DG:C6	2.89	0.41
1:J:35:ARG:O	1:J:162:SER:N	2.41	0.41
1:J:211:PHE:CE2	1:J:232:HIS:CE1	3.08	0.41
1:J:466:VAL:HG23	2:K:345:PHE:CD2	2.56	0.41
2:K:138:LEU:HD22	2:K:204:GLY:HA3	2.03	0.41
2:K:251:LEU:HD13	2:K:340:PHE:HE2	1.85	0.41
2:K:457:LEU:HD22	2:K:529:PRO:HB3	2.03	0.41
3:L:333:MET:HB3	3:L:337:LYS:NZ	2.35	0.41
3:L:363:ILE:HG21	3:L:413:PHE:CD2	2.55	0.41
3:L:713:GLU:HG3	3:L:717:LYS:HE2	2.02	0.41
3:L:717:LYS:HB3	3:L:721:TYR:CZ	2.55	0.41
3:L:801:LYS:HE3	3:L:913:ARG:NH1	2.36	0.41
3:L:1103:ALA:HA	3:L:1106:ILE:HG13	2.03	0.41
3:L:2121:ASP:O	3:L:2124:SER:HB3	2.21	0.41
3:L:2454:LEU:HD12	3:L:2454:LEU:HA	1.87	0.41
3:L:2856:SER:HB3	3:L:2885:GLN:CD	2.41	0.41
3:L:3138:ILE:HD12	3:L:3189:PHE:HZ	1.86	0.41
3:L:3572:ILE:HG12	3:L:3796:MET:HE2	2.01	0.41
3:L:3793:VAL:HG13	3:L:3803:ILE:HD11	2.03	0.41
9:X:731:LYS:HE2	9:X:731:LYS:HA	2.01	0.41
9:Y:726:LEU:O	9:Y:730:PHE:HD1	2.04	0.41
1:A:38:LEU:HD12	1:A:165:ARG:O	2.21	0.41
1:A:185:ARG:O	1:A:188:THR:OG1	2.34	0.41
2:B:129:LYS:HG2	2:B:130:ARG:N	2.35	0.41
2:B:407:VAL:O	2:B:421:TYR:HD1	2.03	0.41
2:B:478:PRO:C	2:B:480:THR:N	2.74	0.41
2:B:529:PRO:HA	2:B:532:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:334:HIS:CD2	3:C:334:HIS:H	2.39	0.41
3:C:446:PHE:HD2	3:C:530:LEU:HD13	1.85	0.41
3:C:493:LYS:HD3	3:C:495:VAL:H	1.85	0.41
3:C:493:LYS:HZ3	3:C:495:VAL:HG22	1.85	0.41
3:C:497:LEU:HD23	3:C:497:LEU:HA	1.86	0.41
3:C:745:VAL:C	3:C:747:ALA:H	2.23	0.41
3:C:793:LEU:O	3:C:796:LEU:HB2	2.20	0.41
3:C:1154:PRO:HB2	3:C:1157:PHE:CD1	2.55	0.41
3:C:1705:GLY:C	3:C:1707:LEU:H	2.24	0.41
3:C:1808:ASP:OD1	3:C:1808:ASP:N	2.53	0.41
3:C:2168:LEU:HD11	3:C:2189:ILE:HD12	2.02	0.41
3:C:2220:MET:HG2	3:C:2276:LEU:HD21	2.01	0.41
3:C:3067:LYS:HA	3:C:3067:LYS:HD2	1.97	0.41
3:C:3169:PRO:HD2	3:C:3179:TRP:CZ2	2.56	0.41
3:C:3956:PRO:HG3	3:C:4077:TYR:OH	2.20	0.41
1:J:269:ILE:HB	1:J:378:SER:HB2	2.01	0.41
1:J:405:ASN:OD1	3:L:212:VAL:HG21	2.21	0.41
1:J:526:LYS:HG3	1:J:530:TYR:HD2	1.86	0.41
2:K:129:LYS:HG2	2:K:130:ARG:N	2.35	0.41
3:L:327:VAL:O	3:L:329:LYS:N	2.54	0.41
3:L:453:MET:HA	3:L:456:VAL:HG12	2.02	0.41
3:L:1452:VAL:HG11	3:L:1514:LEU:HD22	2.03	0.41
3:L:1958:GLU:O	3:L:1962:TYR:N	2.53	0.41
3:L:2177:ASN:O	3:L:2183:HIS:CE1	2.73	0.41
3:L:2288:TYR:O	3:L:2299:TYR:HE2	2.04	0.41
3:L:3019:ILE:HD11	3:L:3030:ILE:HA	2.02	0.41
3:L:3528:ALA:HB2	3:L:3705:TYR:CE2	2.55	0.41
3:L:3767:LEU:HD21	3:L:4002:MET:HB2	2.02	0.41
5:M:14:DA:C4	5:M:15:DT:C5	3.09	0.41
9:Y:722:LYS:HD3	9:Y:741:ARG:CZ	2.51	0.41
1:A:46:LYS:HB2	1:A:46:LYS:HE2	1.78	0.41
1:A:320:GLN:NE2	2:B:276:TRP:CD2	2.89	0.41
1:A:326:GLN:HE22	1:A:328:ILE:CD1	2.33	0.41
1:A:358:LYS:HA	2:B:353:ARG:HH11	1.84	0.41
2:B:473:LEU:O	2:B:475:ASP:N	2.52	0.41
2:B:727:ASP:N	2:B:727:ASP:OD1	2.54	0.41
3:C:57:LEU:HD13	3:C:57:LEU:HA	1.92	0.41
3:C:80:GLU:OE1	3:C:80:GLU:HA	2.21	0.41
3:C:185:HIS:CD2	3:C:187:SER:HG	2.39	0.41
3:C:238:MET:H	3:C:241:ASP:CG	2.22	0.41
3:C:327:VAL:O	3:C:329:LYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:450:SER:O	3:C:454:GLN:HG3	2.21	0.41
3:C:801:LYS:HE3	3:C:913:ARG:NH1	2.36	0.41
3:C:908:ASP:OD1	3:C:908:ASP:N	2.54	0.41
3:C:976:VAL:O	3:C:2598:ARG:HB3	2.21	0.41
3:C:1172:LEU:O	3:C:1175:HIS:N	2.54	0.41
3:C:1256:TRP:HZ2	3:C:1292:LYS:HD3	1.85	0.41
3:C:1418:HIS:HA	3:C:1422:LYS:CE	2.50	0.41
3:C:1441:ALA:O	3:C:1443:VAL:N	2.53	0.41
3:C:1510:LEU:O	3:C:1514:LEU:HD23	2.20	0.41
3:C:1649:LEU:HD22	3:C:1675:TYR:CZ	2.56	0.41
3:C:1652:ILE:HD12	3:C:1652:ILE:HA	1.92	0.41
3:C:1788:ARG:O	3:C:1794:GLN:NE2	2.53	0.41
3:C:1798:LEU:HA	3:C:1801:VAL:HG12	2.03	0.41
3:C:1916:ILE:HD13	3:C:1951:VAL:HG11	2.03	0.41
3:C:1958:GLU:O	3:C:1962:TYR:N	2.53	0.41
3:C:2203:THR:OG1	3:C:2245:TRP:HE3	2.03	0.41
3:C:2240:THR:HA	3:C:2243:GLU:HG3	2.03	0.41
3:C:2288:TYR:O	3:C:2299:TYR:HE2	2.04	0.41
3:C:2470:ARG:NH1	3:C:2517:LEU:HD12	2.35	0.41
3:C:2951:GLN:OE1	3:C:2951:GLN:N	2.42	0.41
3:C:2981:TRP:NE1	3:C:2986:PRO:HD3	2.36	0.41
3:C:3448:GLU:O	3:C:3448:GLU:HG2	2.20	0.41
3:C:3506:LEU:O	3:C:3506:LEU:HD23	2.20	0.41
3:C:3722:PHE:CB	3:C:3740:ILE:HA	2.47	0.41
3:C:3738:ILE:HG22	3:C:3739:ILE:N	2.36	0.41
3:C:3999:THR:OG1	3:C:4000:ASN:N	2.53	0.41
3:C:4045:CYS:O	3:C:4048:LYS:HG2	2.20	0.41
5:D:14:DA:C4	5:D:15:DT:C5	3.09	0.41
6:E:19:DA:H2''	6:E:20:DG:C8	2.55	0.41
1:J:40:PHE:CD2	1:J:67:ILE:HG23	2.56	0.41
1:J:104:VAL:HG13	1:J:104:VAL:O	2.20	0.41
1:J:396:ALA:HB3	1:J:413:LEU:HB2	2.02	0.41
1:J:491:GLU:HG3	2:K:316:TYR:HE2	1.84	0.41
1:J:505:ASP:OD1	1:J:506:LEU:N	2.53	0.41
2:K:341:SER:C	2:K:393:VAL:HG13	2.40	0.41
2:K:529:PRO:O	2:K:533:ILE:HG12	2.19	0.41
3:L:13:LEU:CD2	3:L:3070:HIS:HD2	2.34	0.41
3:L:179:GLY:O	3:L:181:LEU:N	2.53	0.41
3:L:490:ILE:HD13	3:L:527:TYR:CG	2.56	0.41
3:L:1172:LEU:O	3:L:1175:HIS:N	2.54	0.41
3:L:1367:HIS:HA	3:L:1370:ARG:NE	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1427:SER:O	3:L:1431:LEU:HB2	2.20	0.41
3:L:1441:ALA:O	3:L:1443:VAL:N	2.53	0.41
3:L:1506:SER:O	3:L:1509:GLN:HG3	2.20	0.41
3:L:1675:TYR:CE1	3:L:1695:LEU:HD21	2.55	0.41
3:L:1705:GLY:C	3:L:1707:LEU:H	2.24	0.41
3:L:1806:ARG:HG3	3:L:1873:TYR:OH	2.21	0.41
3:L:1813:SER:HA	3:L:1816:ARG:HG3	2.02	0.41
3:L:1828:LEU:HD21	3:L:1839:PHE:CD2	2.55	0.41
3:L:1913:LYS:O	3:L:1915:LEU:N	2.54	0.41
3:L:2260:PHE:HB2	3:L:2270:ASN:OD1	2.20	0.41
3:L:2476:ILE:O	3:L:2480:ILE:HG12	2.21	0.41
3:L:2555:LEU:HD21	3:L:2854:PHE:HD1	1.86	0.41
3:L:2733:MET:N	5:M:31:DT:H3	2.19	0.41
3:L:2933:ILE:HG13	3:L:2933:ILE:O	2.21	0.41
3:L:2942:ILE:H	3:L:2942:ILE:HD12	1.85	0.41
3:L:2959:ALA:HA	3:L:2962:ARG:NH2	2.35	0.41
3:L:3281:CYS:SG	3:L:3329:LEU:HD13	2.61	0.41
3:L:3300:VAL:O	3:L:3304:VAL:N	2.42	0.41
3:L:3510:GLN:O	3:L:3512:VAL:N	2.53	0.41
3:L:3574:ALA:HB1	3:L:3687:MET:SD	2.60	0.41
3:L:3752:VAL:CG2	3:L:3800:LEU:HD11	2.51	0.41
5:M:14:DA:C6	5:M:15:DT:C4	3.09	0.41
6:N:18:DC:C4	6:N:19:DA:C5	3.09	0.41
9:X:662:VAL:HA	9:X:698:TYR:CE1	2.56	0.41
1:A:40:PHE:CD2	1:A:67:ILE:HG23	2.56	0.41
1:A:116:ILE:HB	1:A:495:LEU:HD11	2.03	0.41
1:A:116:ILE:HD13	1:A:116:ILE:HA	1.90	0.41
1:A:165:ARG:HH11	1:A:165:ARG:HG3	1.86	0.41
2:B:474:GLU:OE2	2:B:476:LEU:HB2	2.20	0.41
3:C:917:LEU:HD23	3:C:917:LEU:HA	1.92	0.41
3:C:1303:MET:SD	3:C:1370:ARG:NH1	2.94	0.41
3:C:1767:CYS:SG	3:C:1819:PHE:HA	2.61	0.41
3:C:2121:ASP:O	3:C:2124:SER:HB3	2.21	0.41
3:C:2227:LYS:HD3	3:C:2228:ARG:H	1.86	0.41
3:C:2263:LYS:HZ1	3:C:2302:ALA:HB1	1.86	0.41
3:C:2535:THR:OG1	3:C:2536:LEU:N	2.54	0.41
3:C:2959:ALA:HA	3:C:2962:ARG:NH2	2.35	0.41
3:C:3107:ILE:HD13	3:C:3135:LEU:HD13	2.02	0.41
3:C:3578:LEU:HG	3:C:3684:SER:HA	2.02	0.41
3:C:3580:ASN:OD1	3:C:3580:ASN:N	2.54	0.41
3:C:3752:VAL:CG2	3:C:3800:LEU:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:25:DC:O2	6:E:26:DT:C2	2.74	0.41
6:E:26:DT:C4	6:E:27:DT:O4	2.74	0.41
8:I:137:ARG:HB2	8:I:138:PRO:HD3	2.03	0.41
1:J:39:ILE:HG13	1:J:84:ALA:HB3	2.03	0.41
3:L:733:LEU:C	3:L:735:SER:H	2.25	0.41
3:L:780:ILE:HB	3:L:785:MET:HE2	2.02	0.41
3:L:985:GLU:N	3:L:986:PRO:HD2	2.36	0.41
3:L:991:LEU:HD23	3:L:991:LEU:HA	1.83	0.41
3:L:1510:LEU:O	3:L:1514:LEU:HD23	2.20	0.41
3:L:2218:PHE:HE1	3:L:2222:HIS:CE1	2.38	0.41
3:L:2472:GLN:O	3:L:2476:ILE:HG12	2.21	0.41
3:L:3964:THR:O	3:L:3968:ILE:HD12	2.20	0.41
3:L:4074:PHE:CE2	3:L:4075:ARG:NH2	2.89	0.41
5:M:22:DA:N3	5:M:23:DG:C5	2.89	0.41
1:A:129:LYS:O	1:A:132:GLN:HG3	2.21	0.40
2:B:520:ALA:O	2:B:523:THR:OG1	2.23	0.40
3:C:163:LYS:HD2	3:C:163:LYS:HA	1.80	0.40
3:C:939:MET:SD	3:C:2783:ILE:HD13	2.61	0.40
3:C:1862:THR:O	3:C:1865:THR:N	2.47	0.40
3:C:2459:VAL:HA	3:C:2473:MET:HE3	2.02	0.40
3:C:2555:LEU:HD21	3:C:2854:PHE:HD1	1.86	0.40
3:C:2557:LEU:HD23	3:C:2557:LEU:HA	1.79	0.40
3:C:3579:SER:CA	3:C:3736:LYS:HZ1	2.33	0.40
1:J:289:TYR:CE1	2:K:297:LEU:HD21	2.56	0.40
1:J:405:ASN:HD21	3:L:212:VAL:HG11	1.86	0.40
1:J:487:PHE:O	1:J:491:GLU:OE1	2.39	0.40
2:K:478:PRO:C	2:K:480:THR:N	2.74	0.40
2:K:547:GLN:CG	2:K:548:VAL:H	2.26	0.40
3:L:65:LEU:HD12	3:L:65:LEU:N	2.37	0.40
3:L:901:MET:HE3	3:L:2536:LEU:HD23	2.02	0.40
3:L:1303:MET:SD	3:L:1370:ARG:NH1	2.94	0.40
3:L:1689:LYS:O	3:L:1693:VAL:HG13	2.21	0.40
3:L:1767:CYS:SG	3:L:1819:PHE:HA	2.61	0.40
3:L:2129:LEU:O	3:L:2133:LEU:HB2	2.21	0.40
3:L:2163:HIS:CE1	3:L:2164:TRP:NE1	2.89	0.40
3:L:2804:ILE:HD13	3:L:2804:ILE:HA	1.85	0.40
3:L:3154:GLN:HE21	3:L:3227:ILE:HD13	1.86	0.40
3:L:3347:CYS:HB3	3:L:3351:ILE:CD1	2.51	0.40
3:L:3348:LEU:HD23	3:L:3348:LEU:HA	1.80	0.40
3:L:3498:TRP:O	3:L:3498:TRP:CE3	2.74	0.40
3:L:3506:LEU:O	3:L:3506:LEU:HD23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3507:ASP:OD2	3:L:3540:TYR:HA	2.21	0.40
5:M:22:DA:C2	5:M:23:DG:C5	3.09	0.40
1:A:99:PHE:CD2	1:A:145:GLU:HG2	2.55	0.40
1:A:361:TYR:OH	1:A:364:PRO:HA	2.21	0.40
1:A:410:PHE:CZ	2:B:516:LEU:HD12	2.57	0.40
2:B:423:GLN:O	2:B:424:LEU:HD22	2.22	0.40
3:C:372:PRO:O	3:C:376:ILE:HG12	2.21	0.40
3:C:740:ILE:HG23	3:C:741:ILE:HD13	2.04	0.40
3:C:901:MET:HE3	3:C:2536:LEU:HD23	2.03	0.40
3:C:985:GLU:N	3:C:986:PRO:HD2	2.35	0.40
3:C:1794:GLN:O	3:C:1798:LEU:HG	2.21	0.40
3:C:2472:GLN:O	3:C:2476:ILE:HG12	2.21	0.40
3:C:2972:TYR:CE1	3:C:2994:TRP:HA	2.53	0.40
3:C:3463:LEU:HD11	3:C:3770:VAL:HA	2.03	0.40
3:C:3498:TRP:CE3	3:C:3501:HIS:HB3	2.57	0.40
3:C:3572:ILE:HG12	3:C:3796:MET:HE2	2.03	0.40
3:C:3835:PRO:HG2	3:C:3838:GLU:C	2.42	0.40
3:C:3882:LEU:HD12	3:C:3966:GLN:HG3	2.03	0.40
6:E:26:DT:OP2	6:E:26:DT:H71	2.21	0.40
1:J:174:ASN:OD1	1:J:175:PRO:HD2	2.22	0.40
1:J:361:TYR:OH	1:J:364:PRO:HA	2.21	0.40
1:J:410:PHE:CZ	2:K:516:LEU:HD12	2.56	0.40
1:J:521:LEU:HA	1:J:524:GLU:CD	2.41	0.40
2:K:357:MET:SD	2:K:357:MET:O	2.79	0.40
3:L:341:PHE:C	3:L:343:GLU:N	2.75	0.40
3:L:483:VAL:HG11	3:L:567:GLU:HB3	2.04	0.40
3:L:745:VAL:C	3:L:747:ALA:H	2.23	0.40
3:L:752:LEU:HD22	3:L:792:ILE:CD1	2.49	0.40
3:L:821:ALA:O	3:L:824:LYS:HG3	2.21	0.40
3:L:1082:PHE:CD1	3:L:1085:ILE:HD11	2.56	0.40
3:L:1102:GLU:O	3:L:1106:ILE:HG13	2.22	0.40
3:L:1154:PRO:HB2	3:L:1157:PHE:HD1	1.86	0.40
3:L:1412:LYS:O	3:L:1416:GLU:N	2.30	0.40
3:L:1916:ILE:HD13	3:L:1951:VAL:HG11	2.03	0.40
3:L:2203:THR:OG1	3:L:2245:TRP:HE3	2.03	0.40
3:L:2281:MET:HG2	3:L:2325:LEU:HB3	2.03	0.40
3:L:2422:GLN:NE2	3:L:2426:HIS:CE1	2.89	0.40
3:L:2825:THR:HG22	3:L:2826:LEU:N	2.36	0.40
3:L:2931:ARG:HH12	3:L:2960:GLU:CD	2.23	0.40
3:L:3078:LEU:HD23	3:L:3078:LEU:HA	1.84	0.40
3:L:3238:MET:HE3	3:L:3238:MET:HB2	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3293:CYS:SG	3:L:3294:SER:N	2.94	0.40
3:L:3739:ILE:O	3:L:3739:ILE:HG23	2.21	0.40
6:N:24:DT:C6	6:N:25:DC:H5	2.40	0.40
1:A:39:ILE:HG13	1:A:84:ALA:HB3	2.03	0.40
1:A:87:PHE:CE2	1:A:105:LEU:HD22	2.56	0.40
1:A:341:ASP:HB3	1:A:401:THR:HG21	2.03	0.40
1:A:462:MET:O	1:A:466:VAL:HG12	2.21	0.40
2:B:476:LEU:O	2:B:519:PRO:HG3	2.21	0.40
3:C:13:LEU:CD2	3:C:3070:HIS:HD2	2.34	0.40
3:C:387:GLU:OE1	3:C:391:ARG:NE	2.55	0.40
3:C:875:SER:HA	3:C:879:MET:SD	2.61	0.40
3:C:1046:PRO:CD	3:C:1047:GLN:N	2.84	0.40
3:C:1689:LYS:O	3:C:1693:VAL:HG13	2.21	0.40
3:C:2125:TRP:HD1	3:C:2128:PHE:HD2	1.68	0.40
3:C:2163:HIS:CE1	3:C:2164:TRP:NE1	2.90	0.40
3:C:2453:GLU:O	3:C:2457:PRO:HD3	2.22	0.40
3:C:3230:LEU:O	3:C:3233:SER:OG	2.22	0.40
3:C:3296:GLN:O	3:C:3299:THR:OG1	2.21	0.40
3:C:3793:VAL:HG13	3:C:3803:ILE:HD11	2.03	0.40
3:C:3815:LEU:HD11	3:C:3890:MET:CE	2.51	0.40
1:J:38:LEU:HD12	1:J:165:ARG:O	2.21	0.40
1:J:399:ARG:HH11	1:J:399:ARG:HD2	1.78	0.40
1:J:451:LYS:NZ	2:K:414:HIS:O	2.44	0.40
2:K:520:ALA:O	2:K:523:THR:N	2.54	0.40
2:K:727:ASP:N	2:K:727:ASP:OD1	2.54	0.40
3:L:334:HIS:CD2	3:L:334:HIS:H	2.39	0.40
3:L:562:HIS:CD2	3:L:641:PHE:HD2	2.40	0.40
3:L:743:LEU:HD13	3:L:743:LEU:HA	1.98	0.40
3:L:864:GLY:HA2	3:L:867:ASN:OD1	2.21	0.40
3:L:1568:ASN:O	3:L:1572:LEU:HG	2.22	0.40
3:L:1963:GLN:CG	3:L:2125:TRP:HZ3	2.32	0.40
3:L:3144:PHE:CD1	3:L:3160:LEU:HD13	2.57	0.40
3:L:3449:LYS:HB3	3:L:3449:LYS:HE3	1.86	0.40
3:L:3835:PRO:HB3	3:L:3840:LYS:HB2	2.02	0.40
6:N:26:DT:C4	6:N:27:DT:O4	2.74	0.40
1:A:487:PHE:O	1:A:491:GLU:OE1	2.39	0.40
2:B:482:ILE:HD12	2:B:482:ILE:HA	1.88	0.40
2:B:496:HIS:O	2:B:496:HIS:CD2	2.75	0.40
3:C:490:ILE:HD13	3:C:527:TYR:CG	2.56	0.40
3:C:562:HIS:CD2	3:C:641:PHE:HD2	2.39	0.40
3:C:699:GLU:OE1	3:C:1445:ARG:NH2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:708:VAL:HG22	3:C:740:ILE:HG13	2.04	0.40
3:C:733:LEU:C	3:C:735:SER:H	2.25	0.40
3:C:2476:ILE:O	3:C:2480:ILE:HG12	2.21	0.40
3:C:3103:ILE:HD12	3:C:3103:ILE:HA	1.97	0.40
3:C:3293:CYS:SG	3:C:3294:SER:N	2.94	0.40
3:C:3347:CYS:HB3	3:C:3351:ILE:CD1	2.52	0.40
3:C:3482:LEU:HD11	3:C:3487:ILE:HG13	2.04	0.40
3:C:3507:ASP:OD2	3:C:3540:TYR:HA	2.21	0.40
3:C:4074:PHE:CE2	3:C:4075:ARG:NH2	2.89	0.40
1:J:247:ARG:HH21	1:J:488:ARG:NH1	2.20	0.40
1:J:289:TYR:HD1	1:J:292:THR:HG1	1.66	0.40
1:J:341:ASP:HB3	1:J:401:THR:HG21	2.03	0.40
1:J:351:LYS:NZ	1:J:356:LEU:HD22	2.36	0.40
2:K:332:LYS:O	2:K:334:LYS:HD3	2.21	0.40
2:K:353:ARG:O	2:K:356:PHE:CD1	2.73	0.40
2:K:450:GLN:HG2	2:K:537:PHE:CE1	2.56	0.40
3:L:250:ASN:OD1	3:L:251:PHE:N	2.55	0.40
3:L:1459:HIS:HB2	3:L:1464:LEU:HD22	2.04	0.40
3:L:2981:TRP:NE1	3:L:2986:PRO:HD3	2.36	0.40
3:L:3497:SER:CA	3:L:3707:GLY:HA3	2.52	0.40
3:L:3693:GLU:HB2	3:L:3696:ARG:NH2	2.36	0.40
3:L:3704:GLN:HE22	3:L:3716:HIS:HA	1.86	0.40
1:A:203:MET:O	1:A:203:MET:HG2	2.22	0.40
1:A:274:TYR:CD2	2:B:435:PHE:CZ	3.10	0.40
1:A:466:VAL:HG23	2:B:345:PHE:CD2	2.56	0.40
1:A:526:LYS:HG3	1:A:530:TYR:HD2	1.86	0.40
2:B:477:PHE:HD1	2:B:519:PRO:CD	2.35	0.40
3:C:65:LEU:N	3:C:65:LEU:HD12	2.37	0.40
3:C:1108:MET:HA	3:C:1131:ILE:HD13	2.03	0.40
3:C:2422:GLN:NE2	3:C:2426:HIS:CE1	2.89	0.40
5:D:27:DA:H2'	5:D:27:DA:H5'	1.89	0.40
6:E:25:DC:H6	6:E:25:DC:O5'	2.05	0.40
7:F:18:HIS:HB3	7:F:36:LEU:HD11	2.03	0.40
1:J:386:LEU:HA	1:J:432:PHE:HE1	1.87	0.40
1:J:462:MET:O	1:J:466:VAL:HG12	2.22	0.40
2:K:144:LYS:HD3	2:K:207:ILE:HD12	2.02	0.40
2:K:489:ARG:HH12	2:K:493:CYS:HB2	1.87	0.40
3:L:32:HIS:O	3:L:35:ILE:HG22	2.22	0.40
3:L:132:ILE:HD13	3:L:132:ILE:HA	1.96	0.40
3:L:249:PHE:CD1	3:L:282:PHE:HB3	2.57	0.40
3:L:699:GLU:OE1	3:L:1445:ARG:NH2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:961:LEU:HD12	3:L:961:LEU:HA	1.86	0.40
3:L:1690:GLY:O	3:L:1693:VAL:HG22	2.22	0.40
3:L:1798:LEU:HA	3:L:1801:VAL:HG12	2.03	0.40
3:L:3145:ILE:HG22	3:L:3145:ILE:O	2.22	0.40
3:L:3463:LEU:HD11	3:L:3770:VAL:HA	2.03	0.40
3:L:3578:LEU:HG	3:L:3684:SER:HA	2.02	0.40
3:L:3739:ILE:HG13	3:L:3747:GLU:OE1	2.22	0.40
3:L:3815:LEU:HD11	3:L:3890:MET:CE	2.51	0.40
3:L:3835:PRO:HG2	3:L:3838:GLU:C	2.42	0.40
3:L:4045:CYS:O	3:L:4048:LYS:HG2	2.21	0.40
7:P:2:GLU:HB2	7:P:24:TRP:CZ2	2.56	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	
1	A	493/609 (81%)	424 (86%)	69 (14%)	0	100	100
1	J	493/609 (81%)	424 (86%)	69 (14%)	0	100	100
2	B	525/732 (72%)	465 (89%)	60 (11%)	0	100	100
2	K	525/732 (72%)	466 (89%)	59 (11%)	0	100	100
3	C	3686/4128 (89%)	3269 (89%)	416 (11%)	1 (0%)	100	100
3	L	3686/4128 (89%)	3269 (89%)	416 (11%)	1 (0%)	100	100
7	F	209/336 (62%)	202 (97%)	5 (2%)	2 (1%)	15	54
7	G	191/336 (57%)	176 (92%)	12 (6%)	3 (2%)	9	45
7	O	191/336 (57%)	176 (92%)	12 (6%)	3 (2%)	9	45
7	P	209/336 (62%)	203 (97%)	5 (2%)	1 (0%)	29	68
8	H	217/299 (73%)	201 (93%)	15 (7%)	1 (0%)	29	68

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	I	212/299 (71%)	200 (94%)	11 (5%)	1 (0%)	29	68
9	X	250/911 (27%)	230 (92%)	20 (8%)	0	100	100
9	Y	250/911 (27%)	231 (92%)	19 (8%)	0	100	100
All	All	11137/14702 (76%)	9936 (89%)	1188 (11%)	13 (0%)	54	85

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	F	26	LYS
7	P	26	LYS
7	G	26	LYS
7	G	64	GLY
8	H	208	LYS
7	O	26	LYS
7	O	64	GLY
7	F	60	ALA
7	G	60	ALA
8	I	177	ASP
7	O	60	ALA
3	C	2159	PRO
3	L	2159	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	
1	A	452/548 (82%)	452 (100%)	0	100	100
1	J	452/548 (82%)	452 (100%)	0	100	100
2	B	481/649 (74%)	478 (99%)	3 (1%)	86	92
2	K	481/649 (74%)	478 (99%)	3 (1%)	86	92
3	C	3325/3671 (91%)	3316 (100%)	9 (0%)	92	95
3	L	3325/3671 (91%)	3316 (100%)	9 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	F	191/303 (63%)	166 (87%)	25 (13%)	4	20
7	G	178/303 (59%)	153 (86%)	25 (14%)	3	19
7	O	178/303 (59%)	153 (86%)	25 (14%)	3	19
7	P	191/303 (63%)	167 (87%)	24 (13%)	4	21
8	H	198/262 (76%)	188 (95%)	10 (5%)	24	50
8	I	193/262 (74%)	177 (92%)	16 (8%)	11	36
9	X	230/808 (28%)	212 (92%)	18 (8%)	12	38
9	Y	230/808 (28%)	211 (92%)	19 (8%)	11	36
All	All	10105/13088 (77%)	9919 (98%)	186 (2%)	61	77

All (186) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	130	ARG
2	B	323	PHE
2	B	327	ASP
3	C	406	ARG
3	C	824	LYS
3	C	1140	LYS
3	C	1445	ARG
3	C	2311	ARG
3	C	2722	ARG
3	C	2940	ARG
3	C	3269	ARG
3	C	3593	ARG
7	F	3	ARG
7	F	6	SER
7	F	22	VAL
7	F	23	SER
7	F	26	LYS
7	F	40	HIS
7	F	71	ARG
7	F	90	LYS
7	F	98	GLU
7	F	104	VAL
7	F	110	SER
7	F	112	ASN
7	F	114	GLU
7	F	116	VAL

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Mol	Chain	Res	Type
7	F	117	GLU
7	F	122	VAL
7	F	125	GLU
7	F	127	ILE
7	F	140	LYS
7	F	145	GLN
7	F	146	LYS
7	F	147	GLU
7	F	161	ARG
7	F	186	GLU
7	F	191	ILE
7	G	1	MET
7	G	4	LYS
7	G	28	LEU
7	G	34	ILE
7	G	47	VAL
7	G	49	GLU
7	G	51	GLU
7	G	52	ILE
7	G	57	ASP
7	G	67	VAL
7	G	70	LEU
7	G	85	THR
7	G	89	SER
7	G	91	GLU
7	G	93	CYS
7	G	115	LYS
7	G	118	ASN
7	G	125	GLU
7	G	136	GLU
7	G	150	ARG
7	G	163	GLU
7	G	165	CYS
7	G	174	THR
7	G	186	GLU
7	G	192	ARG
8	H	31	LYS
8	H	62	ASN
8	H	100	VAL
8	H	109	ARG
8	H	112	LEU
8	H	113	SER

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Mol	Chain	Res	Type
8	H	124	MET
8	H	151	ARG
8	H	168	GLN
8	H	169	GLU
8	I	17	GLN
8	I	31	LYS
8	I	41	LEU
8	I	48	GLN
8	I	59	LYS
8	I	109	ARG
8	I	118	TYR
8	I	140	MET
8	I	151	ARG
8	I	159	MET
8	I	169	GLU
8	I	194	MET
8	I	200	GLU
8	I	204	ILE
8	I	212	MET
8	I	224	GLN
2	K	130	ARG
2	K	323	PHE
2	K	327	ASP
3	L	406	ARG
3	L	824	LYS
3	L	1140	LYS
3	L	1445	ARG
3	L	2311	ARG
3	L	2722	ARG
3	L	2940	ARG
3	L	3269	ARG
3	L	3593	ARG
7	O	1	MET
7	O	4	LYS
7	O	28	LEU
7	O	34	ILE
7	O	47	VAL
7	O	49	GLU
7	O	51	GLU
7	O	52	ILE
7	O	57	ASP
7	O	67	VAL

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Mol	Chain	Res	Type
7	O	70	LEU
7	O	85	THR
7	O	89	SER
7	O	91	GLU
7	O	93	CYS
7	O	115	LYS
7	O	118	ASN
7	O	125	GLU
7	O	136	GLU
7	O	150	ARG
7	O	163	GLU
7	O	165	CYS
7	O	174	THR
7	O	186	GLU
7	O	192	ARG
7	P	3	ARG
7	P	6	SER
7	P	22	VAL
7	P	23	SER
7	P	26	LYS
7	P	40	HIS
7	P	71	ARG
7	P	90	LYS
7	P	98	GLU
7	P	104	VAL
7	P	110	SER
7	P	112	ASN
7	P	114	GLU
7	P	116	VAL
7	P	117	GLU
7	P	122	VAL
7	P	125	GLU
7	P	127	ILE
7	P	140	LYS
7	P	145	GLN
7	P	146	LYS
7	P	147	GLU
7	P	186	GLU
7	P	191	ILE
9	X	769	THR
9	X	774	LEU
9	X	783	ASN

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Mol	Chain	Res	Type
9	X	788	THR
9	X	792	MET
9	X	811	SER
9	X	820	LEU
9	X	822	SER
9	X	830	SER
9	X	832	LYS
9	X	834	GLU
9	X	836	THR
9	X	837	ARG
9	X	853	VAL
9	X	856	LEU
9	X	862	HIS
9	X	871	ARG
9	X	894	VAL
9	Y	769	THR
9	Y	774	LEU
9	Y	783	ASN
9	Y	786	GLU
9	Y	788	THR
9	Y	792	MET
9	Y	811	SER
9	Y	820	LEU
9	Y	822	SER
9	Y	830	SER
9	Y	832	LYS
9	Y	834	GLU
9	Y	836	THR
9	Y	837	ARG
9	Y	853	VAL
9	Y	856	LEU
9	Y	862	HIS
9	Y	871	ARG
9	Y	894	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	204	HIS
1	A	293	ASN
2	B	131	HIS
2	B	496	HIS

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Mol	Chain	Res	Type
2	B	551	GLN
3	C	16	GLN
3	C	1331	ASN
3	C	1555	HIS
3	C	1909	ASN
3	C	1946	ASN
3	C	1963	GLN
3	C	2295	GLN
3	C	2426	HIS
3	C	2579	HIS
3	C	2859	GLN
3	C	3074	GLN
3	C	3327	ASN
3	C	3390	GLN
3	C	3743	HIS
3	C	3787	GLN
3	C	3969	ASN
3	C	4088	ASN
7	F	40	HIS
7	F	145	GLN
7	F	277	GLN
7	G	138	GLN
8	I	46	HIS
8	I	48	GLN
8	I	56	GLN
1	J	204	HIS
2	K	496	HIS
2	K	551	GLN
3	L	16	GLN
3	L	1331	ASN
3	L	1555	HIS
3	L	1909	ASN
3	L	1946	ASN
3	L	2295	GLN
3	L	2426	HIS
3	L	2579	HIS
3	L	2859	GLN
3	L	3074	GLN
3	L	3327	ASN
3	L	3390	GLN
3	L	3743	HIS
3	L	3787	GLN

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Mol	Chain	Res	Type
3	L	3969	ASN
3	L	4088	ASN
7	O	138	GLN
7	P	40	HIS
7	P	145	GLN
7	P	277	GLN
9	X	833	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
10	ADP	L	4201	-	24,29,29	1.20	4 (16%)	29,45,45	1.59	3 (10%)
10	ADP	C	4201	-	24,29,29	1.20	4 (16%)	29,45,45	1.58	3 (10%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
10	ADP	L	4201	-	-	2/12/32/32	0/3/3/3
10	ADP	C	4201	-	-	2/12/32/32	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	L	4201	ADP	C2'-C1'	-2.88	1.49	1.53
10	C	4201	ADP	C2'-C1'	-2.83	1.49	1.53
10	C	4201	ADP	C4-N3	-2.18	1.32	1.35
10	C	4201	ADP	O4'-C4'	-2.13	1.40	1.45
10	L	4201	ADP	C4-N3	-2.12	1.32	1.35
10	L	4201	ADP	O4'-C4'	-2.11	1.40	1.45
10	C	4201	ADP	C5-N7	-2.03	1.32	1.39
10	L	4201	ADP	C5-N7	-2.02	1.32	1.39

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	L	4201	ADP	PA-O3A-PB	-4.85	116.19	132.83
10	C	4201	ADP	PA-O3A-PB	-4.84	116.22	132.83
10	C	4201	ADP	C3'-C2'-C1'	2.65	104.97	100.98
10	L	4201	ADP	C1'-N9-C4	2.62	131.25	126.64
10	L	4201	ADP	C3'-C2'-C1'	2.61	104.90	100.98
10	C	4201	ADP	C1'-N9-C4	2.56	131.15	126.64

There are no chirality outliers.

All (4) torsion outliers are listed below:

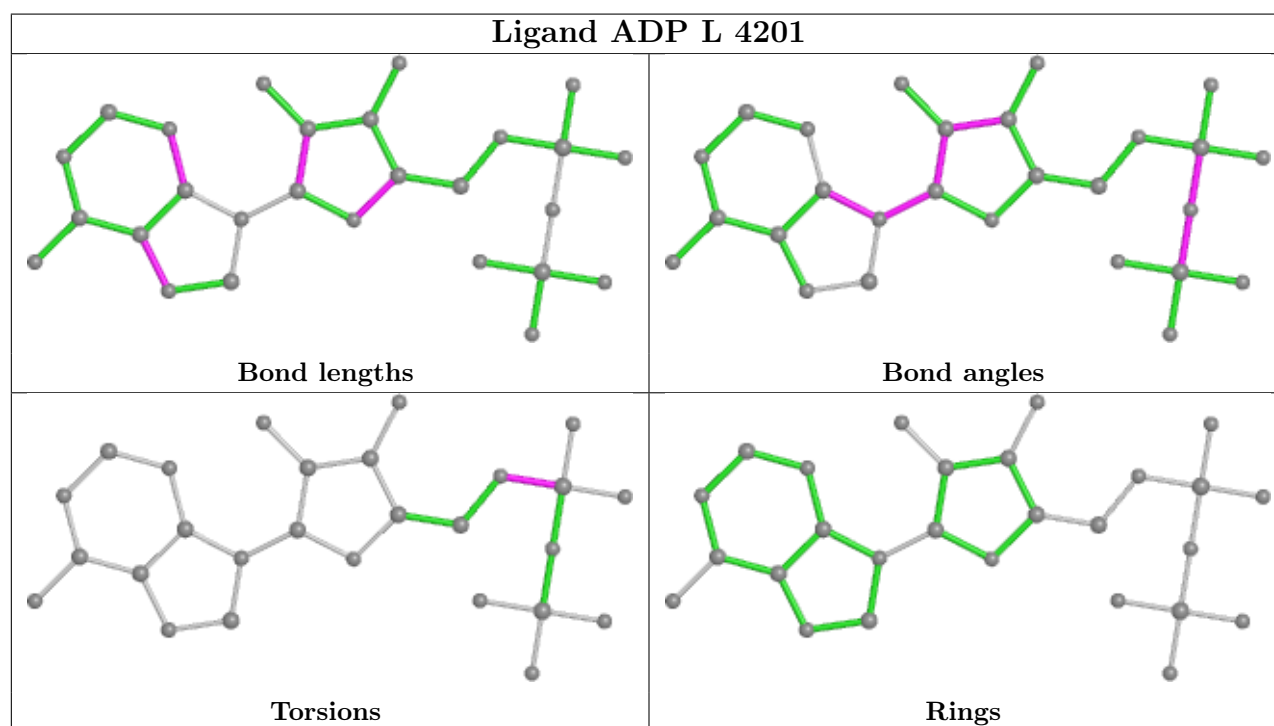
Mol	Chain	Res	Type	Atoms
10	C	4201	ADP	C5'-O5'-PA-O3A
10	L	4201	ADP	C5'-O5'-PA-O3A
10	C	4201	ADP	C5'-O5'-PA-O1A
10	L	4201	ADP	C5'-O5'-PA-O1A

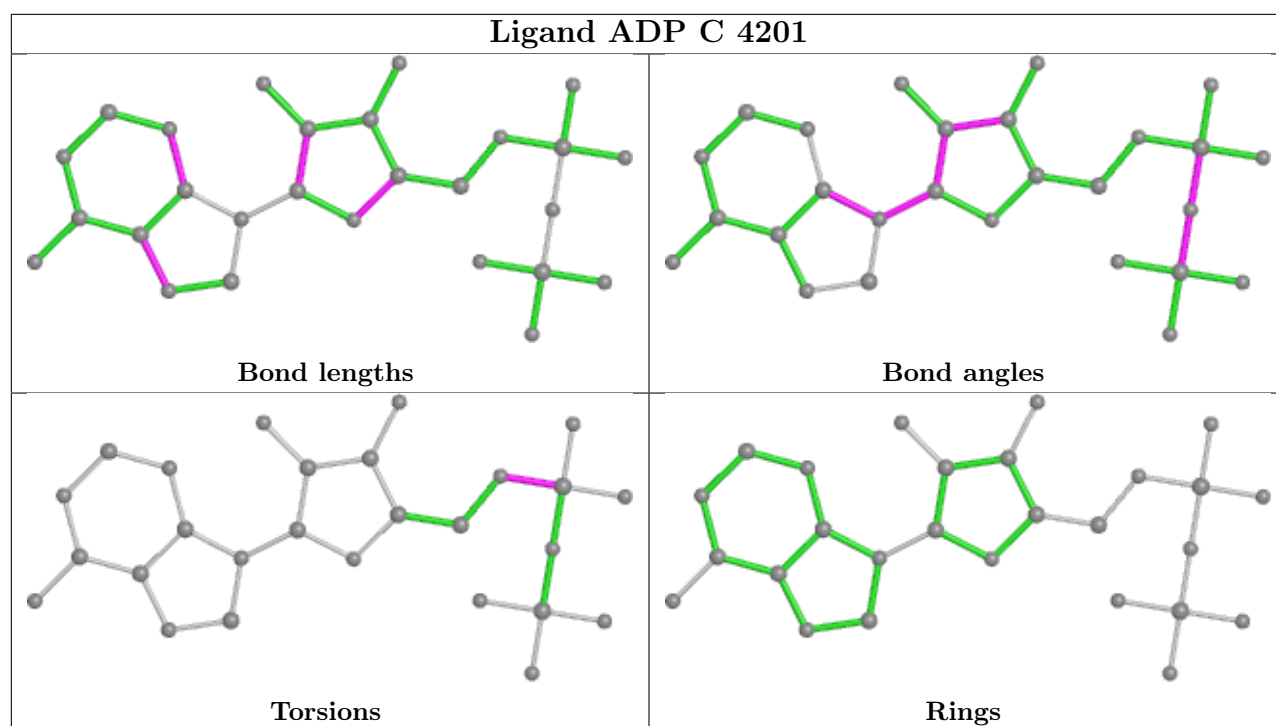
There are no ring outliers.

2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	L	4201	ADP	5	0
10	C	4201	ADP	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

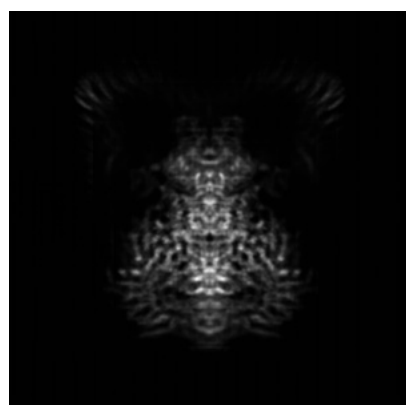
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23510. These allow visual inspection of the internal detail of the map and identification of artifacts.

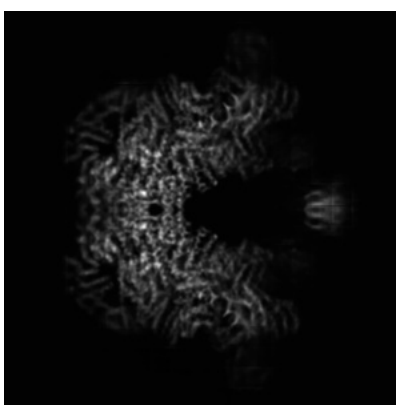
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

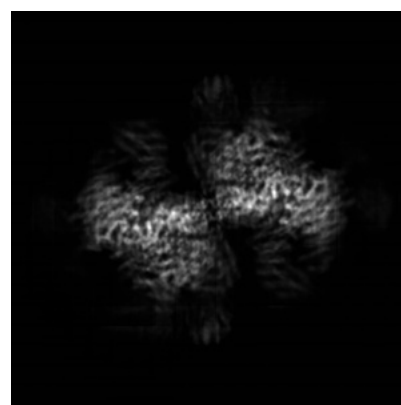
6.1.1 Primary map



X



Y

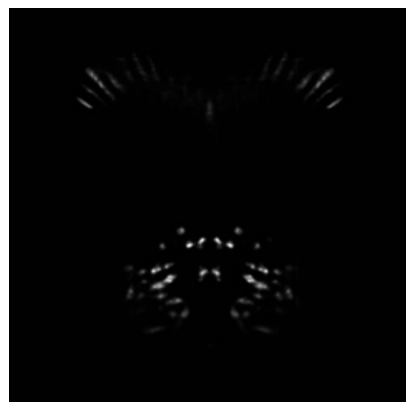


Z

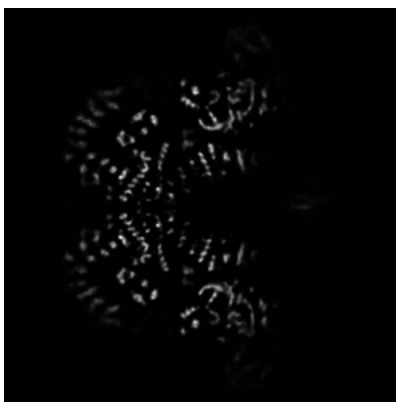
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

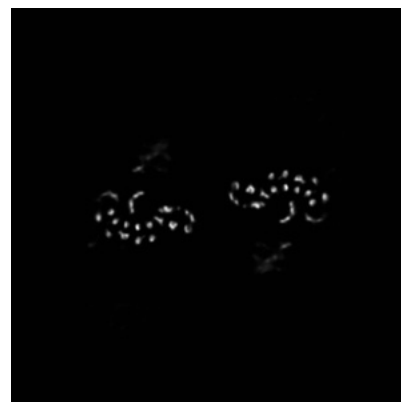
6.2.1 Primary map



X Index: 145



Y Index: 145



Z Index: 145

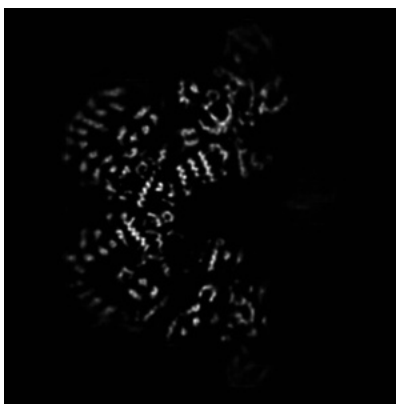
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

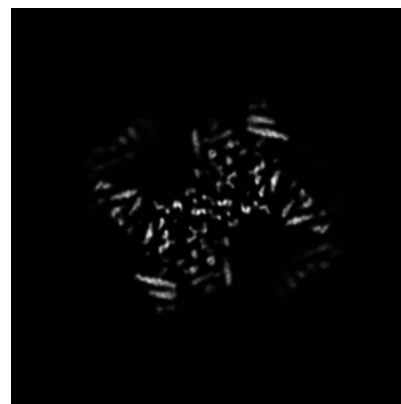
6.3.1 Primary map



X Index: 185



Y Index: 147



Z Index: 100

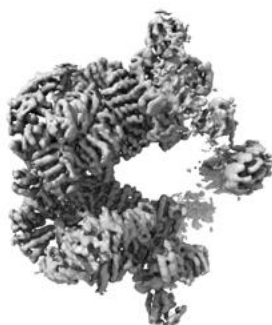
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

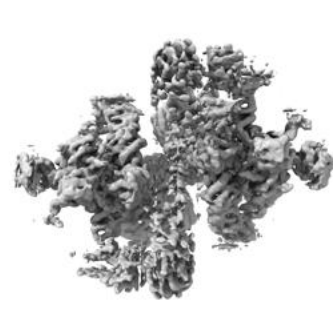
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

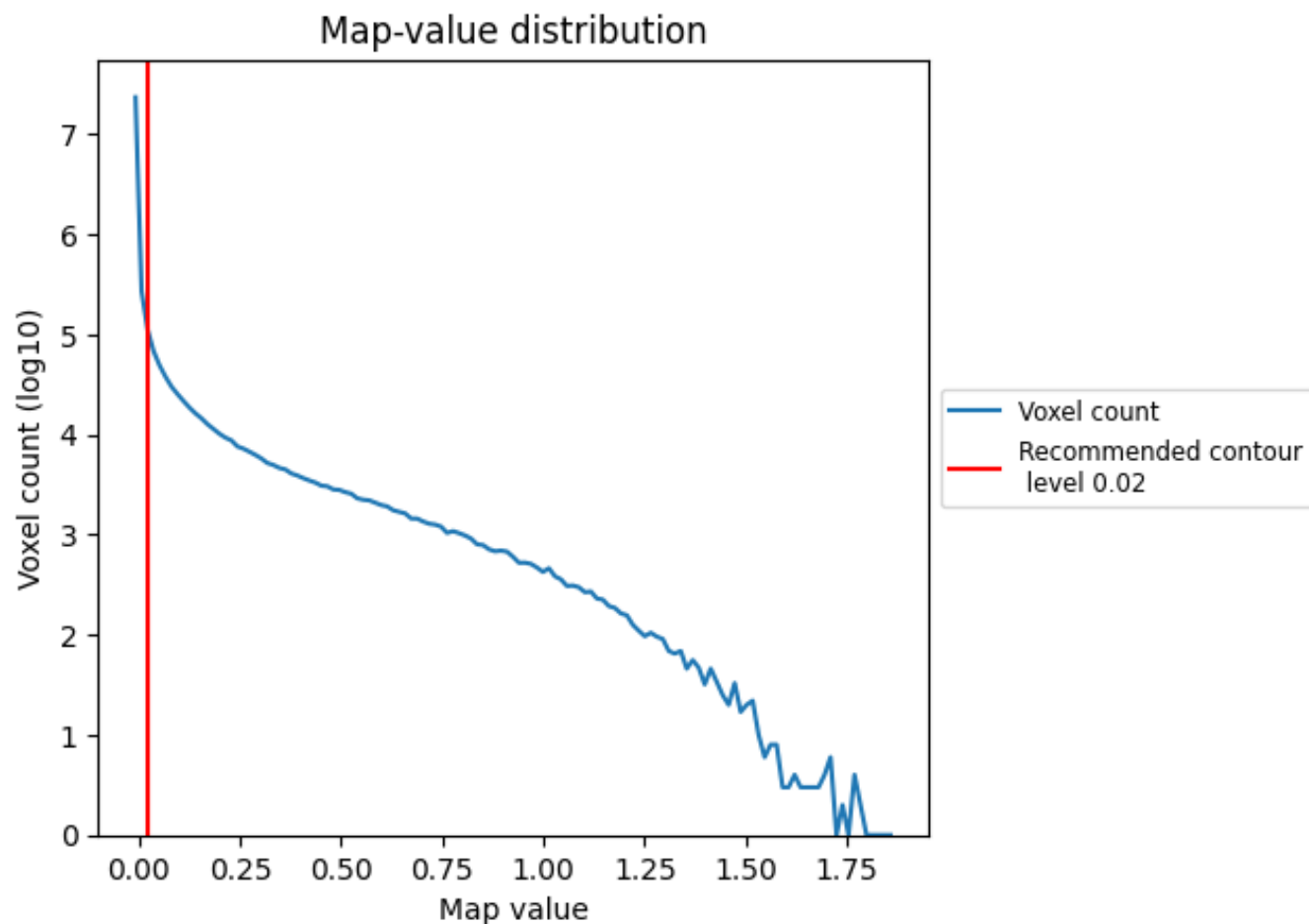
6.5 Mask visualisation

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

7 Map analysis [i](#)

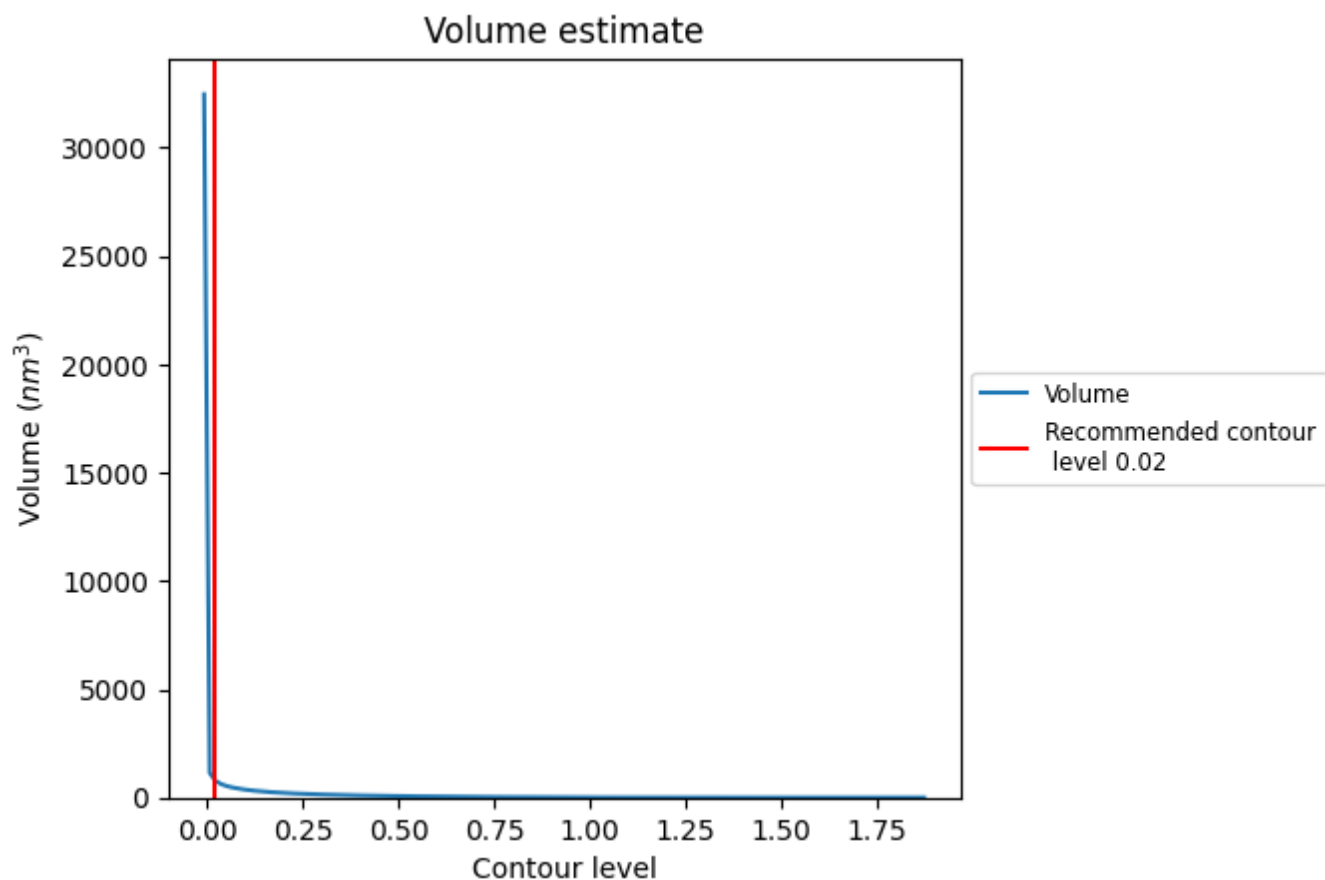
This section contains the results of statistical analysis of the map.

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.

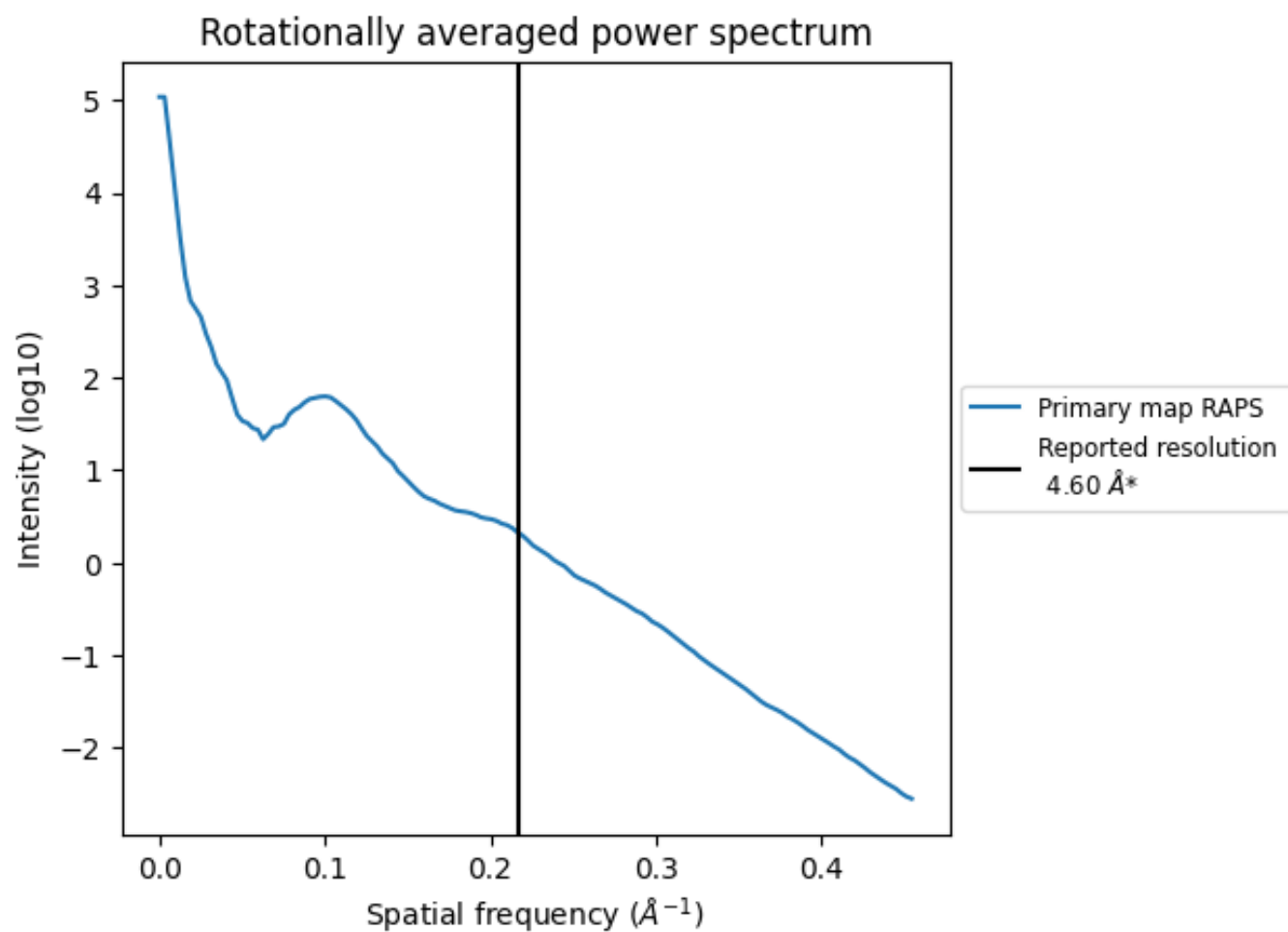
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 789 nm^3 ; this corresponds to an approximate mass of 713 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 ⓘ

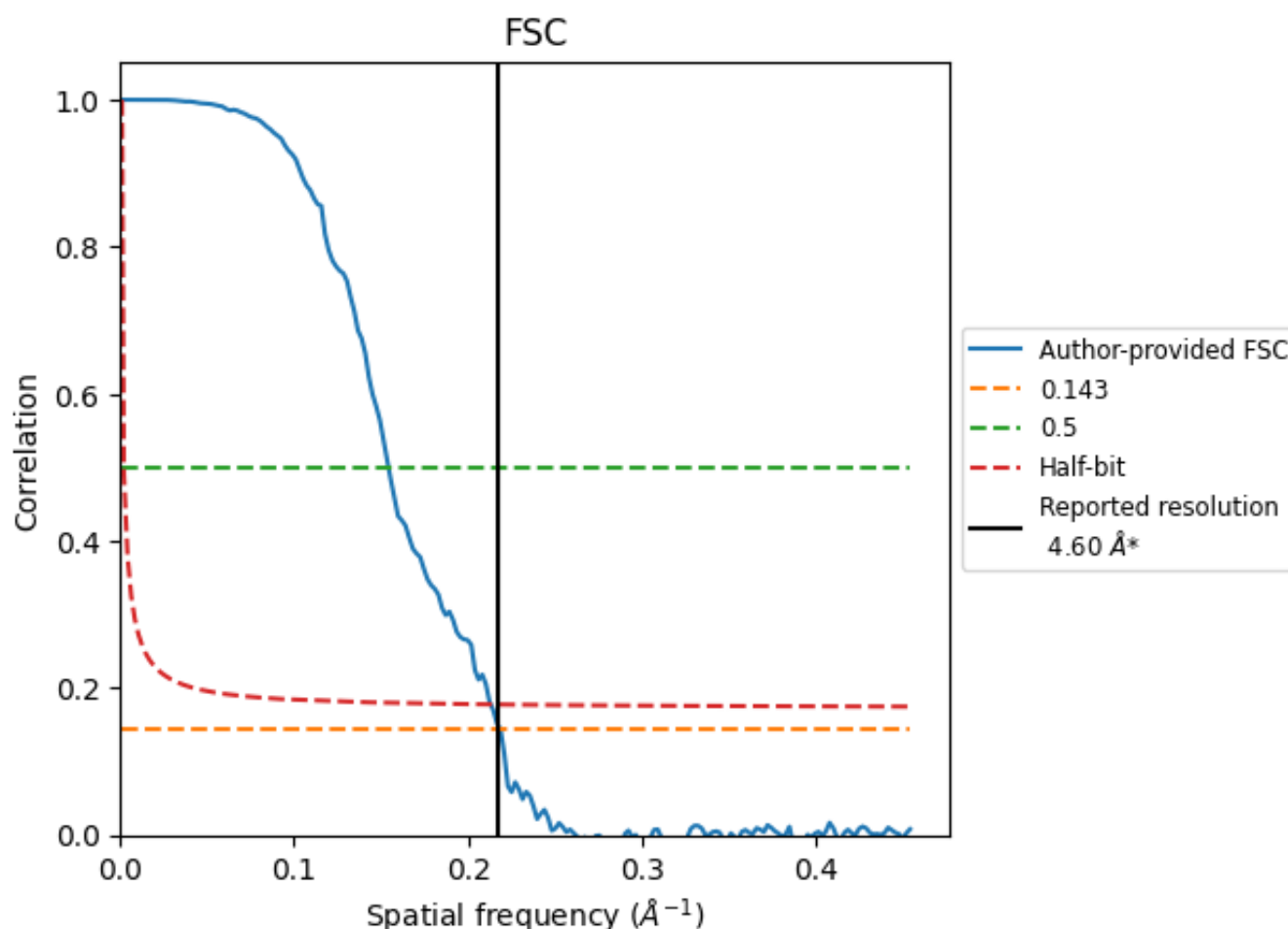


*Reported resolution corresponds to spatial frequency of 0.217 \AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8.2 Resolution estimates [i](#)

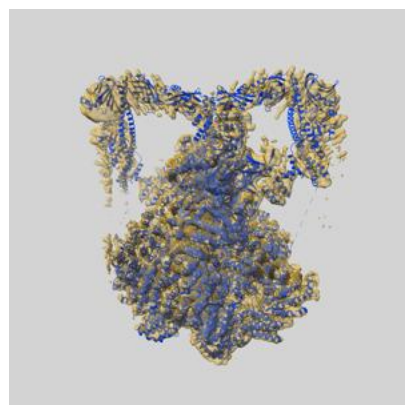
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.57	6.48	4.69
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

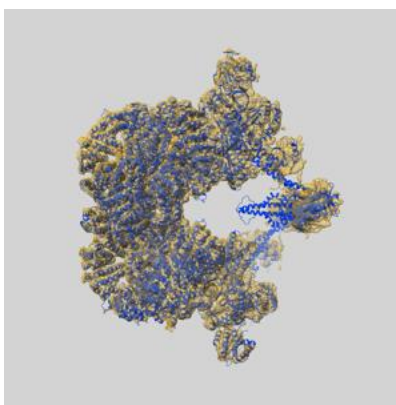
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-23510 and PDB model 7LT3. Per-residue inclusion information can be found in section [3](#) on page [7](#).

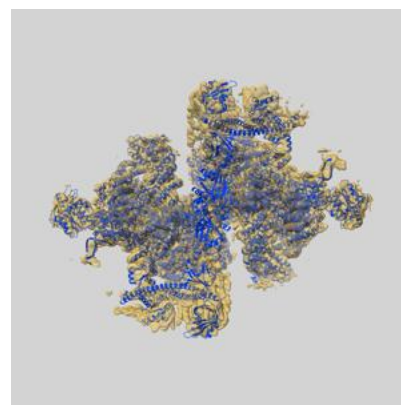
9.1 Map-model overlay [i](#)



X



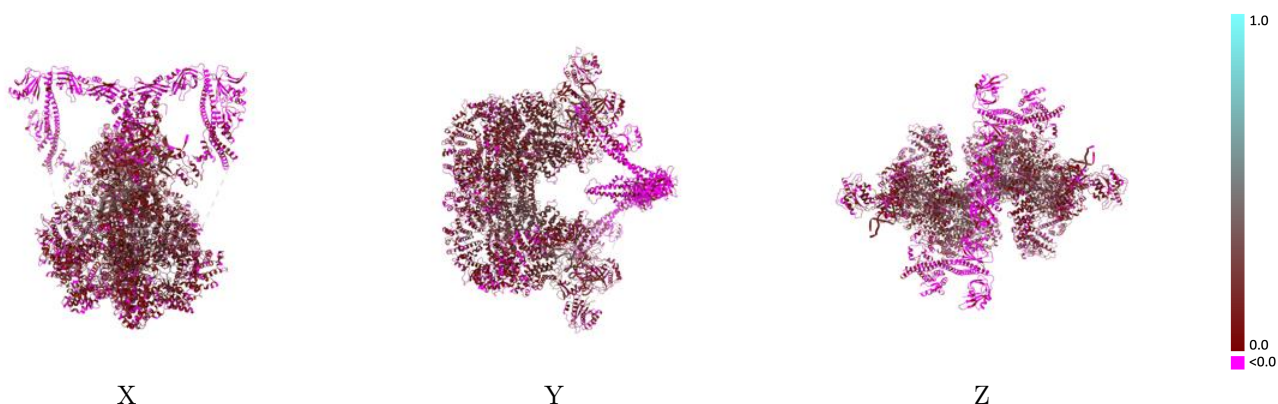
Y



Z

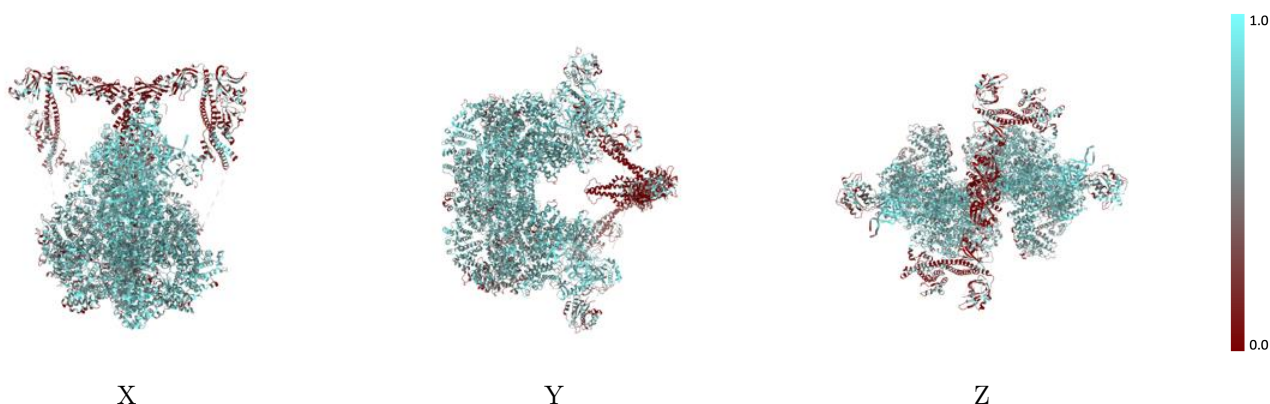
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



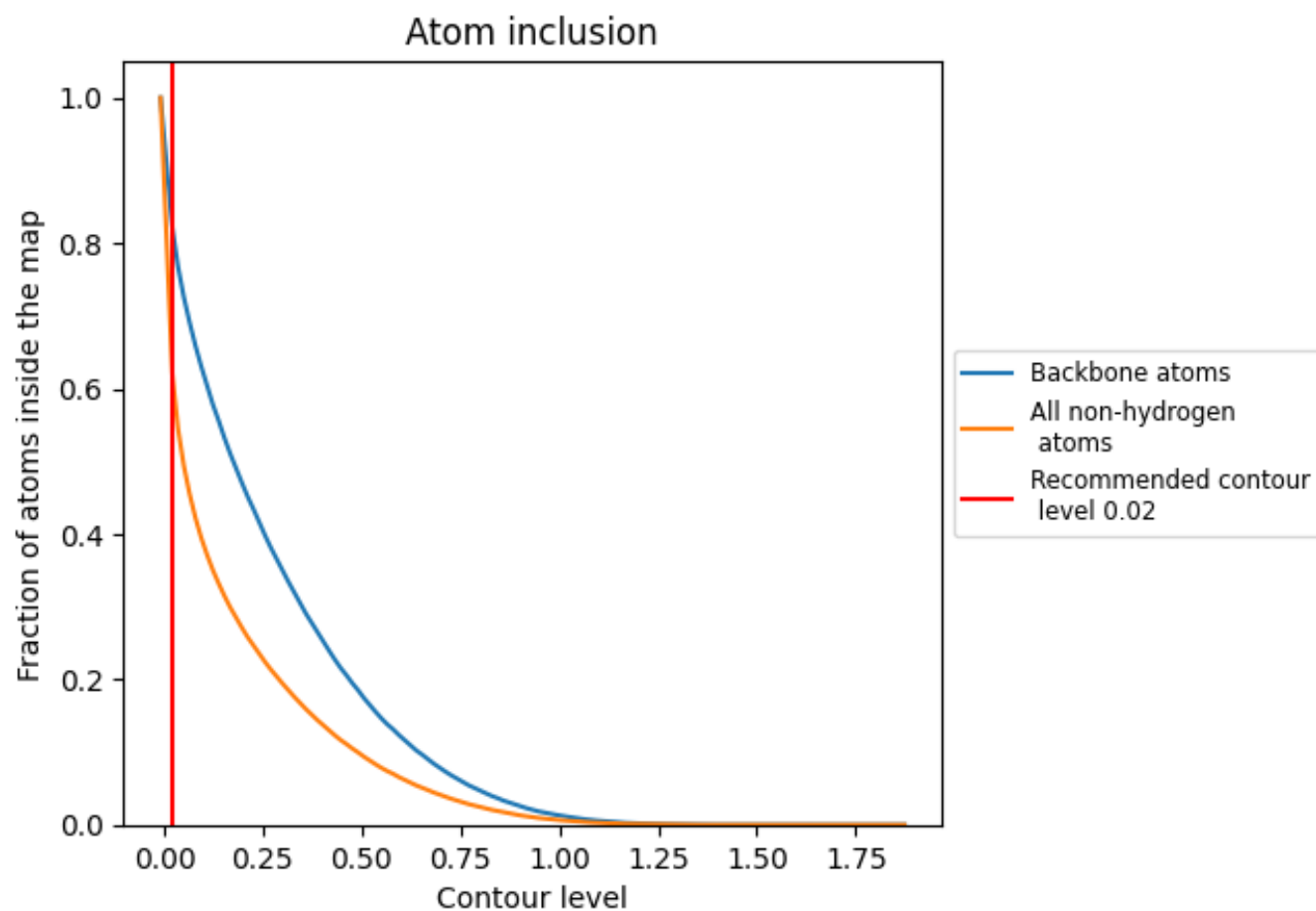
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).











































9.4 Atom inclusion ⓘ



At the recommended contour level, 82% of all backbone atoms, 62% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6249	 0.1180
A	 0.6924	 0.1410
B	 0.6194	 0.1190
C	 0.6939	 0.1450
D	 0.9338	 0.2740
E	 0.9367	 0.2930
F	 0.3068	 -0.0340
G	 0.3669	 -0.0580
H	 0.0794	 -0.0220
I	 0.1362	 -0.0420
J	 0.7071	 0.1420
K	 0.5616	 0.1120
L	 0.6813	 0.1410
M	 0.9038	 0.2740
N	 0.9042	 0.2910
O	 0.3133	 -0.0650
P	 0.3469	 -0.0230
Q	 0.2475	 0.1700
R	 0.3663	 0.1090
X	 0.4101	 0.0050
Y	 0.3701	 -0.0030

