



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 01:11 PM EDT

PDB ID : 5LUQ
Title : Crystal Structure of Human DNA-dependent Protein Kinase Catalytic Subunit (DNA-PKcs)
Authors : Sibanda, B.L.; Chirgadze, D.Y.; Ascher, D.B.; Blundell, T.L.
Deposited on : 2016-09-09
Resolution : 4.30 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

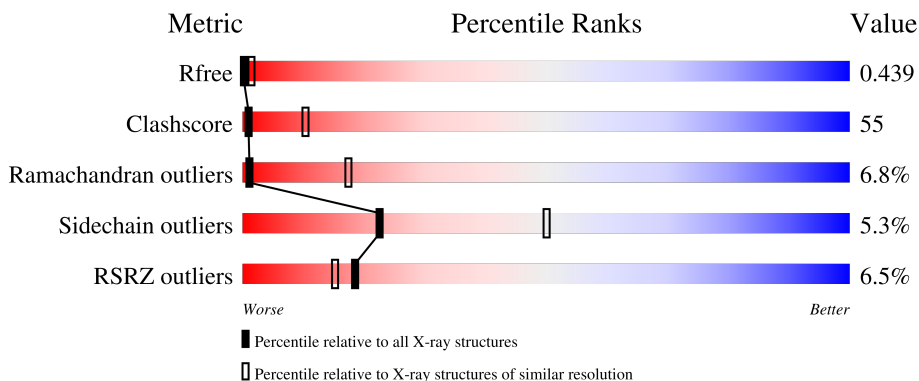
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1014 (4.80-3.80)
Clashscore	141614	1077 (4.80-3.80)
Ramachandran outliers	138981	1029 (4.80-3.80)
Sidechain outliers	138945	1012 (4.80-3.80)
RSRZ outliers	127900	1075 (4.90-3.70)

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

Mol	Chain	Length	Quality of chain
1	A	4128	
1	B	4128	
2	K	194	
2	S	194	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 59694 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-dependent protein kinase catalytic subunit,DNA-dependent Protein Kinase Catalytic Subunit,DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	3725	29574	18907	5016	5460	81	110	0	0	0
1	B	3725	29574	18907	5016	5460	81	110	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	-	expression tag	UNP P78527
A	4128	MSE	-	expression tag	UNP P78527
B	1	MSE	-	expression tag	UNP P78527
B	4128	MSE	-	expression tag	UNP P78527

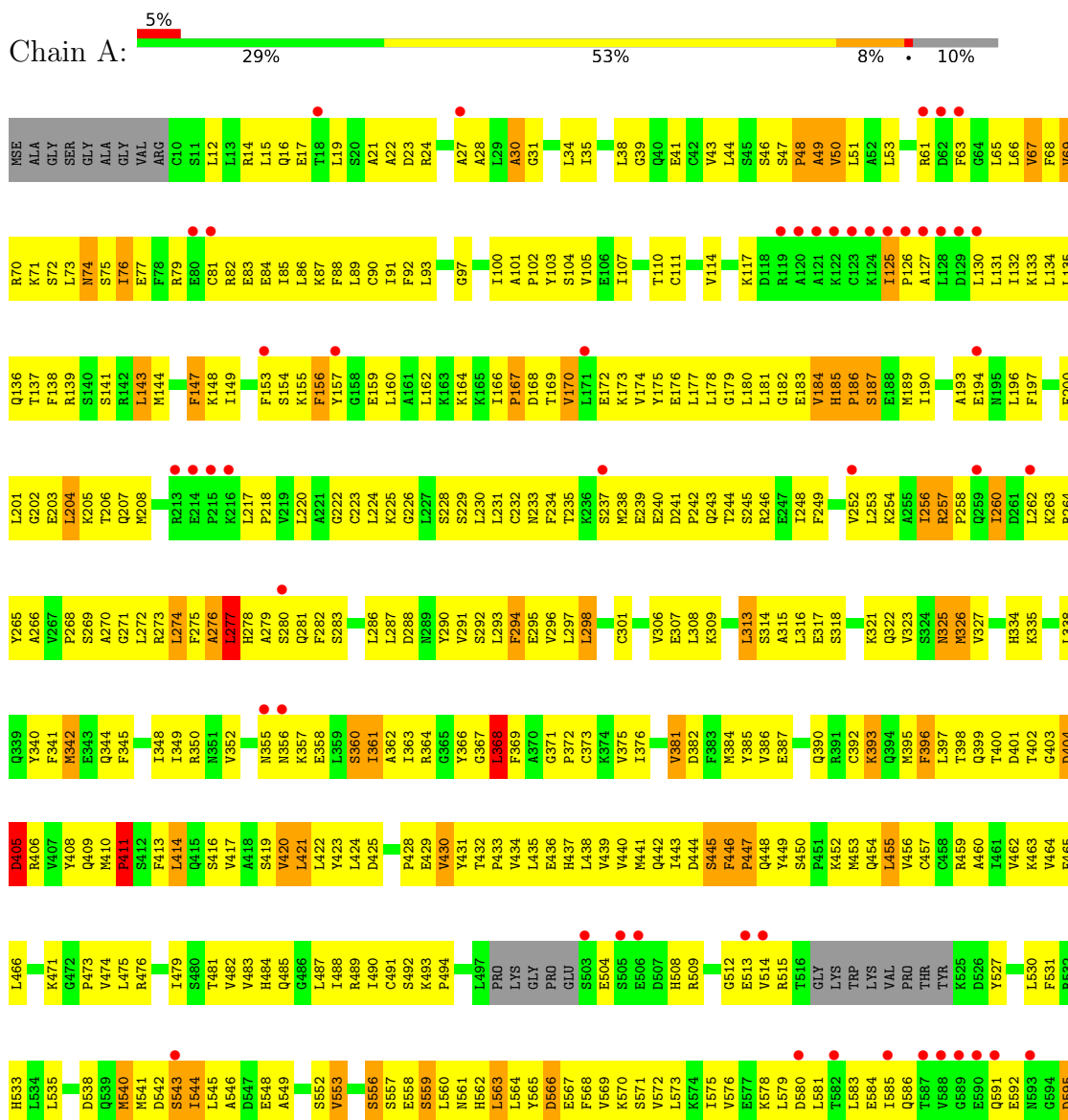
- Molecule 2 is a protein called C-terminal fragment of KU80 (KU80ct194).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	Se			
2	K	54	273	164	54	54	1	0	0	0
2	S	54	273	164	54	54	1	0	0	0

3 Residue-property plots [i](#)

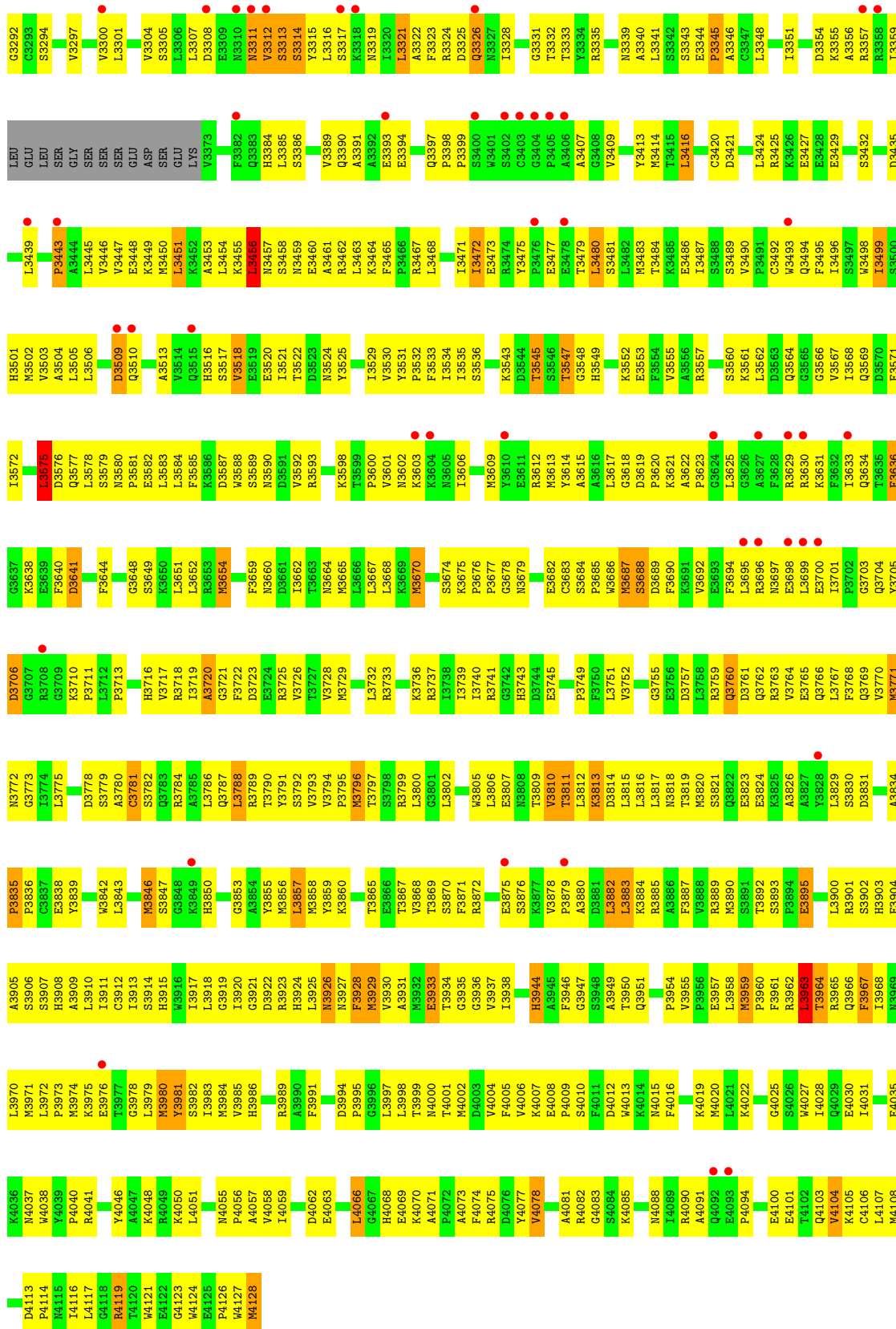
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: DNA-dependent protein kinase catalytic subunit, DNA-dependent Protein Kinase Catalytic Subunit, DNA-dependent protein kinase catalytic subunit



V1435	D1444	R1445	L1448	L1449	V1452	S1453	A1454	C1455	K1456	Q1457	L1458	H1459	R1460	G1461	L1462	L1463	H1464	H1465	L1466	I1467	L1468	P1469	S1470	Q1471	S1472	L1475	H1476	H1477	S1478	V1479	E1482	Y1488	K1489	G1490	I1491	A1492	P1493	G1494	D1495	L1496	R1497	Q1498	C1499	L1500	P1501	S1502	L1503																																																																																																																																																																																																																																																																												
L1436	D1444	R1445	L1448	L1449	V1452	S1453	A1454	C1455	K1456	Q1457	L1458	H1459	R1460	G1461	L1462	L1463	H1464	H1465	L1466	I1467	L1468	P1469	S1470	Q1471	S1472	L1475	H1476	H1477	S1478	V1479	E1482	Y1488	K1489	G1490	I1491	A1492	P1493	G1494	D1495	L1496	R1497	Q1498	C1499	L1500	P1501	S1502	L1503																																																																																																																																																																																																																																																																												
V1371	L1372	V1373	Q1374	T1375	L1376	C1377	E1378	S1381	I1382	M1385	I1386	G1387	D1388	V1389	Q1390	L1391	M1392	L1395	L1396	P1397	V1398	C1399	V1400	M1401	L1402	M1403	K1404	A1405	K1406	L1407	T1344	T1345	T1346	T1347	L1348	L1349	M1350	T1351	S1352	P1353	E1354	G1355	W1356	K1357	L1358	L1359	K1360	K1361	D1362	L1363	C1364	E1429	M1365	T1366	H1367	A1368	L1369	V1434																																																																																																																																																																																																																																																																	
L1370	M1171	L1172	L1173	A1174	H1175	L1176	L1177	R1178	P1179	Q1180	THR	GLU	CYS	ARG	HIS	LYS	SER	ILE	GLU	Y1267	M1268	F1269	L1270	I1271	R1274	L1275	V1276	L1277	A1278	L1279	L1282	G1283	T1284	E1285	A1286	Q1287	S1288	L1289	L1290	L1291	K1292	A1295	L1296	F1297	L1298	E1299	S1300	L1301	A1302	M1303	H1304	D1305	L1306	I1307	Q1237	Q1238	P1239																																																																																																																																																																																																																																																																		
T1240	Y1243	P1247	L1248	L1249	L1250	Q1251	W1256	L1257	D1258	L1259	L1260	E1265	C1266	Y1267	M1268	F1269	L1270	I1271	R1274	L1275	V1276	L1277	A1278	L1279	L1282	G1283	T1284	E1285	A1286	Q1287	S1288	L1289	L1290	L1291	K1292	A1295	L1296	F1297	L1298	E1299	S1300	L1301	A1302	M1303	H1304	D1305	L1306	I1307	Q1237	Q1238	P1239																																																																																																																																																																																																																																																																								
ALA	GLU	LYS	CYS	PHE	GLY	THR	GLY	ALA	GLY	ASN	ARG	THR	S1323	P1324	G1327	E1328	R1329	Y1330	M1331	Y1332	S1333	K1334	C1335	T1336	V1337	V1338	L1339	L1402	M1403	K1404	A1405	K1406	L1407	T1344	T1345	T1346	T1347	L1348	L1349	M1350	T1351	S1352	P1353	E1354	G1355	W1356	K1357	L1358	L1359	K1360	K1361	D1362	L1363	C1364	E1429	M1365	T1366	H1367	A1368	L1369	V1434																																																																																																																																																																																																																																																														
L1104	V1105	I1106	Y1107	M1108	L1109	S1110	L1111	A1112	L1113	A1114	H1115	A1116	D1117	E1118	K1119	S1120	L1121	G1122	T1123	C1127	Y1064	S1065	L1066	A1067	L1068	H1069	P1070	M1071	N1072	L1073	F1074	K1075	L1076	G1077	A1078	M1079	L1080	A1081	F1082	N1083	A1084	I1085	Y1086	L1087	E1088	S1089	L1090	E1093	S1094	L1095	V1096	S1160	A1161	S1162	L1163	C1164	L1165	L1166	D1167																																																																																																																																																																																																																																																																
L1104	V1105	I1106	Y1107	M1108	L1109	S1110	L1111	A1112	L1113	A1114	H1115	A1116	D1117	E1118	K1119	S1120	L1121	G1122	T1123	C1127	Y1064	S1065	L1066	A1067	L1068	H1069	P1070	M1071	N1072	L1073	F1074	K1075	L1076	G1077	A1078	M1079	L1080	A1081	F1082	N1083	A1084	I1085	Y1086	L1087	E1088	S1089	L1090	E1093	S1094	L1095	V1096	S1160	A1161	S1162	L1163	C1164	L1165	L1166	D1167																																																																																																																																																																																																																																																																
K1038	M1039	K1042	Q1043	L1044	T1045	P1046	Q1049	L1053	T1056	K1057	S1058	L1059	F1060	K1061	R1062	L1063	N1064	K1065	S1066	F1001	E1002	S1003	Q1004	T1006	V1007	A1008	L1009	E1010	G1011	A1012	I1013	Q1014	D1015	G1016	I1017	M1018	N1019	Y1020	L1021	D1022	S1023	R1024	P1025	R1026	D1027	F1028	C1029	G1030	L1031	R1032	L1033	A1034	V1100	F1101	E1102	A1103																																																																																																																																																																																																																																																																			
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R913	E916	L917	R918	Q919	R920	S921	D922	R923	R924	Q925	R926	K927	V928	A929	R930	C931	E932	L933	L934	N935	T872	V873	S874	E875	M876	R877	M878	N879	M880	K881	S882	V883	R884	A885	W886	D887	R888	E889	K890	R891	L892	R893	F894	E895	Q896	L961	Y962	R963	R964	E900	M901	K902	P903	V904	I905	F906	L907	D908	V909	F910	L911	V912	D977																																																																																																																																																																																																																																																												
R913	E916	L917	R918	Q919	R920	S921	D922	R923	R924	Q925	R926	K927	V928	A929	R930	C931	E932	L933	L934	N935	T872	V873	S874	E875	M876	R877	M878	N879	M880	K881	S882	V883	R884	A885	W886	D887	R888	E889	K890	R891	L892	R893	F894	E895	Q896	L961	Y962	R963	R964	E900	M901	K902	P903	V904	I905	F906	L907	D908	V909	F910	L911	V912	D977																																																																																																																																																																																																																																																												
Q978	V979	T980	R981	Q982	L983	Y984	E985	D923	R924	Q925	R926	K927	V928	A929	R930	C931	E932	L933	L934	N935	T872	V873	S874	E875	M876	R877	M878	N879	M880	K881	S882	V883	R884	A885	W886	D887	R888	E889	K890	R891	L892	R893	F894	E895	Q896	L961	Y962	R963	R964	E900	M901	K902	P903	V904	I905	F906	L907	D908	V909	F910	L911	V912	D977																																																																																																																																																																																																																																																												
K1038	M1039	K1042	Q1043	L1044	T1045	P1046	Q1049	L1053	T1056	K1057	S1058	L1059	F1060	K1061	R1062	L1063	N1064	K1065	S1066	F1001	E1002	S1003	Q1004	T1006	V1007	A1008	L1009	E1010	G1011	A1012	I1013	Q1014	D1015	G1016	I1017	M1018	N1019	Y1020	L1021	D1022	S1023	R1024	P1025	R1026	D1027	F1028	C1029	G1030	L1031	R1032	L1033	A1034	V1100	F1101	E1102	A1103																																																																																																																																																																																																																																																																			
K1038	M1039	K1042	Q1043	L1044	T1045	P1046	Q1049	L1053	T1056	K1057	S1058	L1059	F1060	K1061	R1062	L1063	N1064	K1065	S1066	F1001	E1002	S1003	Q1004	T1006	V1007	A1008	L1009	E1010	G1011	A1012	I1013	Q1014	D1015	G1016	I1017	M1018	N1019	Y1020	L1021	D1022	S1023	R1024	P1025	R1026	D1027	F1028	C1029	G1030	L1031	R1032	L1033	A1034	V1100	F1101	E1102	A1103																																																																																																																																																																																																																																																																			
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V2272	G2273	I2274	Q2275	L2276	L2277	G2278	I2279	V2280	M2281	A2282	N2283	D2284	L2285	F2286	P2287	D2288	D2289	P2290	Q2291	C2292	G2293	L2294	H2295	S2296	S2297	E2298	Y2299	F2300	Q2301	Q2302	L2303	V2304	M2305	M2306	M2307	S2308	F2309	V2310	R2311	Y2312	K2313	E2314	Y2315	Y2316	A2317	A2318	A2319	A2320	E2321	V2322	L2323	G2324	L2325	L2326	L2327	R2328	Y2329	V2330	M2331
L2140	N2141	I2142	R2143	L2144	R2145	L2146	A2147	K2148	L2149	I2151	N2152	T2153	E2154	E2155	V2156	F2157	A2161	K2162	H2163	W2164	L2165	S2166	P2167	L2168	L2169	Q2170	L2171	N2176	N2177	T2182	H2183	Y2184	M2185	V2186	E2187	E2188	I2189	V2190	A2191	T2192	L2193	L2194	S2195	F2196	T2197	G2198	L2199	A2200	F2201	F2202	T2203	G2204	N2135	P2136	V2137	L2138	R2139	D2208	
Q2071	R2072	P2073	E2074	T2075	V2076	H2077	D2078	D2079	V2080	L2081	E2082	L2083	E2084	M2085	D2086	E2087	L2088	N2089	R2090	H2091	E2092	C2093	L2094	M2095	P2096	L2097	T2098	L2100	H2103	M2104	P2110	P2111	Q2112	G2113	E2114	E2115	D2116	R2120	D2121	L2122	M2125	M2126	K2127	F2128	L2129	G2134	N2135	P2136	V2137	L2138	R2139	P2139							
I2007	R2008	K2009	E2010	R2011	A2012	E2013	A2014	A2015	N2016	G2017	D2018	G2021	P2022	S2023	Y2024	S2027	L2028	S2029	Y2030	L2031	A2032	F1967	S1968	E1969	K1970	H1901	I1905	T1906	E1907	G1908	M1909	L1911	T1912	K1913	T1914	L1915	F1916	I1917	L1918	G1919	Y1920	D1921	A1922	F1923	T1924	E1925	M1926	M1927	L1933	L1934	E1935	R2000	K2001	K2002	K2003	Y2004	I2005	E2006	
V1879	M1880	Y1881	S1882	R1883	L1884	P1885	K1886	D1887	D1888	C1954	H1890	A1891	S1894	L1895	K1896	F1897	F1900	H1901	I1905	T1906	E1907	G1908	M1909	L1911	T1912	K1913	T1914	L1915	F1916	I1917	L1918	G1919	Y1920	D1921	A1922	F1923	T1924	E1925	M1926	M1927	L1933	L1934	E1935	R2000	K2001	K2002	K2003	Y2004	I2005	E2006									
S1818	F1819	V1820	D1821	R1822	SER	LEU	LEU	THR	LEU	LEU	TRP	HIS	CYS	SER	LEU	ASP	ALA	LEU	ARG	GLU	PHE	PHE	THR	ILE	VAL	VAL	ASP	ALA	ILE	ASP	VAL	LEU	LYS	ARG	SER	PHE	T1856	K1857	L1858	M1859	E1860	S1861	D1864	T1865	Q1866	L1867	T1868	K1869	M1870	M1871	G1872	R2000	R1937	Y1874	K1875	I1876	L1877	D1878	
Q1691	A1692	V1693	T1694	L1695	L1696	P1697	F1698	T1700	S1701	L1702	T1703	S1706	E1709	L1710	L1711	R1712	V1713	L1714	E1715	Q1716	L1717	I1718	V1719	A1720	H1721	F1722	P1723	M1724	Q1725	R1727	L1728	E1729	P1730	T1733	P1734	R1735	F1736	M1737	M1738	Y1739	V1740	D1741	C1742	M1743	K1744	K1745	F1746	L1747	D1748	A1749	L1750	E1751	L1752	S1753					
Q1754	S1755	P1756	M1757	L1758	L1759	E1760	M1762	T1763	GLU	VAL	LEU	CYS	ARG	GLU	GLN	HIS	VAL	NSE	GLU	GLU	LEU	PHE	GLN	SER	SER	PHE	ARG	ARG	ILE	ALA	R1787	R1788	G1789	T1793	L1797	L1798	E1799	S1800	V1801	Y1802	E1803	M1804	F1805	R1806	K1807	D1808	D1809	P1810	R1811	L1812	S1813	F1814	L1815	R1816	Q1817				
D1630	S1631	W1632	W1633	A1634	K1635	D1636	S1637	P1638	L1639	E1640	T1641	K1642	M1643	A1644	Q1645	L1646	A1647	L1648	L1649	K1651	I1652	L1653	Q1654	L1655	S1668	VAL	SER	ASN	PHE	ASN	THR	THR	HIS	GLY	THR	SER	PHE	PRO	V1671	F1672	T1673	T1674	Y1675	I1676	S1677	L1678	L1679	A1680	D1681	T1682	K1683	L1684	D1685	L1686	H1687	L1688	K1689	G1690	
I1567	M1568	T1569	E1570	L1571	L1572	K1573	M1574	S1575	D1576	L1577	A1578	L1582	M1583	Q1584	S1585	S1586	V1587	D1588	M1589	T1590	K1591	M1592	Y1593	S1594	L1597	M1598	G1599	M1600	L1601	D1602	Q1603	S1604	F1605	R1606	E1607	R1608	A1609	ASN	GLN	LYS	HIS	GLN	GLY	LEU	LEU	I1551	H1552	F1553	S1554	H1555	Y1558	F1559	Y1560	F1563	S1564	E1565	T1566		
D1504	L1505	C1506	C1507	K1508	Q1509	L1510	A1511	S1512	G1513	E1514	L1517	A1518	F1519	A1520	F1521	G1522	G1523	L1524	C1525	A1526	ARG	LEU	VAL	SER	LEU	LEU	LEU	ASN	PRO	ALA	VAL	LEU	SER	THR	ALA	SER	SER	LEU	GLN	S1548	S1549	V1550	I1551	H1552	F1553	S1554	H1555	Y1558	F1559	Y1560	F1563	S1564	E1565	T1566					



● Molecule 1: DNA-dependent protein kinase catalytic subunit, DNA-dependent Protein Kinase Catalytic Subunit, DNA-dependent protein kinase catalytic subunit

H1687	L1688	X1689	G1690	L1691	A1692	V1693	T1694	L1695	V1696	A1697	P1697	F1698	F1699	T1700	S1701	L1702	G1705	S1706	L1707	E1708	E1709	L1710	R1711	R1712	E1715	Q1716	L1717	I1718	F1722	P1723	M1724	Q1725	S1726	R1727	E1728	F1729	P1730	G1731	G1732	L1733	P1734	R1735	F1736	M1737	M1738	Y1739	V1740	D1741	C1742	M1743	K1744	K1745	F1746	L1747	L1750	E1751		
GLN	HIS	TRP	LYS	LYS	CYS	D1630	S1631	V1632	V1633	A1634	A1635	D1636	S1637	F1638	L1639	E1640	M1643	A1644	V1645	L1646	A1647	S1648	L1648	L1649	A1650	K1651	I1652	L1653	Q1654	I1655	S1658	VAL	S1659	VAL	PHE	ASN	THR	SER	HIS	GLY	F1671	PHE	GLU	V1671	F1672	L1676	S1677	L1678	L1679	A1680	D1681	L1682	K1683	L1684	D1685	I1686	L1686	
S1564	E1565	T1566	I1567	N1568	T1569	E1570	L1571	L1572	K1573	M1574	L1575	D1576	L1577	A1578	V1579	E1580	L1581	L1582	X1583	Q1584	S1585	S1586	V1587	D1588	N1589	T1590	M1591	V1592	S1593	S1594	A1595	V1596	L1597	N1598	G1599	M1600	L1601	D1602	Q1603	F1605	R1606	E1607	R1608	A1609	ASN	GLN	L1675	HIS	GLN	L1678	L1679	L1680	D1681	L1682	K1683	L1684	D1685	I1686
L1500	P1501	S1502	L1503	D1504	L1505	S1506	C1507	Q1508	Q1509	L1510	A1511	S1512	G1513	L1517	A1520	L1524	C1525	A1526	ARG	LEU	VAL	SER	LEU	LEU	ASN	PRO	ALA	VAL	LEU	SER	THR	ALA	SER	GLY	SER	SER	GLN	G1548	S1549	V1550	L1551	H1552	F1553	S1554	L1555	G1556	E1557	L1558	F1559	A1560	S1561	L1562	F1563					
E1430	L1431	V1434	M1435	L1436	Y1437	G1438	P1439	D1440	A1441	Q1442	R1445	S1446	R1447	L1448	A1449	V1451	V1452	A1454	C1455	L1458	H1459	R1460	L1463	L1464	H1465	N1466	L1467	L1468	P1469	S1470	Q1471	S1472	D1474	L1475	H1476	V1479	L1483	L1484	S1485	Y1488	K1489	G1490	L1491	L1492	F1493	G1494	D1495	E1496	R1497									
C1364	N1365	H1366	Q1367	L1368	M1369	R1370	V1371	L1372	V1373	Q1374	L1375	T1376	C1377	P1378	P1379	I1382	M1385	L1386	G1387	D1388	V1389	Q1390	V1391	M1392	A1393	D1397	L1398	C1399	V1400	N1401	L1402	M1403	K1404	A1405	L1406	K1407	M1408	S1409	P1410	Y1411	K1412	D1413	L1414	L1415	L1416	T1417	H1418	L1419	R1420	K1421	K1422	L1423	P1424	A1425	F1426	Q1426	L1428	
E1299	S1300	I1301	A1302	M1303	H1304	D1305	L1306	I1307	A1308	ALA	GLY	LYS	CYS	PHE	THR	GLY	ALA	ALA	GLY	ASN	ARG	THR	S1323	P1324	Y1330	S1333	K1334	C1335	F1336	V1337	V1338	V1339	R1340	I1341	M1342	E1343	F1344	T1345	L1347	L1348	L1349	N1350	T1351	L1352	P1353	E1354	G1355	L1356	K1357	L1358	L1359	K1360	K1361	F1362	L1363			
P1232	A1237	Q1238	P1239	L1240	L1241	L1244	P1247	F1248	S1249	L1250	Q1251	T1253	L1254	C1255	W1256	L1257	D1258	L1259	L1260	A1263	L1264	E1265	C1266	Y1267	M1268	T1269	F1270	I1271	E1272	E1273	R1274	T1275	V1276	L1279	Q1280	L1282	G1283	T1284	E1285	A1286	Q1287	S1288	S1289	L1290	L1291	K1292	A1293	V1294	A1295	F1296	F1297	L1298						
V1169	K1170	W1171	A1174	H1175	R1178	P1179	Q1180	THR	GLU	CYS	ARG	HIS	LYS	SER	ILE	GLU	LEU	PHE	TVR	LYS	PHE	VAL	PRO	L1133	L1134	L1135	R1136	I1137	L1138	E1139	K1140	L1141	H1142	V1143	S1144	L1145	M1146	K1147	A1148	K1149	K1150	R1151	L1153	P1154	R1155	G1156	F1157	P1158	P1159	S1162	L1163	C1164	L1165	L1166	D1167	A1103	W1039	L1104
L1106	Y1107	M1108	E1109	S1110	L1111	A1112	L1113	A1114	H1115	E1118	K1119	S1120	L1121	G1122	T1123	C1127	C1128	D1129	A1130	I1131	D1132	H1133	L1134	R1136	I1137	L1138	E1139	K1140	L1141	H1142	V1143	S1144	L1145	M1146	K1147	A1148	K1149	K1150	R1151	L1153	P1154	R1155	G1156	F1157	P1158	P1159	S1162	L1163	C1164	L1165	L1166	D1167	A1103	W1039	L1104			
R981	Q982	Y983	Y984	E985	P986	L987	M988	M989	Q990	L991	I992	H993	W994	F995	T996	N997	N998	K999	X1000	E1002	S1003	D1004	T1006	T1007	A1008	Q947	M948	P949	F950	G951	Q953	A955	P956	P957	M958	Y959	Q960	L961	Y962	K963	R964	T965	F966	P967	F1028	Q1029	G1030	R1031	C1032	I1033	R1034	E1035	F1036	L1037	K1038	W1039	T980	
K1042	Q1043	T1044	P1046	Q1049	E1050	K1051	P1052	S1053	V1054	M1055	L1059	F1060	K1061	L1062	L1063	Y1064	S1065	L1066	A1067	L1068	H1069	P1070	M1071	A1072	F1073	K1074	R1075	L1076	G1077	A1078	S1079	L1080	A1081	F1082	N1083	I1085	Y1086	R1087	E1088	F1089	R1090	E1091	E1092	E1093	S1094	L1096	E1097	Q1098	F1099	L1100	F1101	E1102	A1103	W1039	L1104			
V1105	I1106	Y1107	M1108	E1109	S1110	L1111	A1112	L1113	A1114	H1115	E1118	K1119	S1120	L1121	G1122	T1123	C1127	C1128	D1129	A1130	I1131	D1132	H1133	L1134	R1136	I1137	L1138	E1139	K1140	L1141	H1142	V1143	S1144	L1145	M1146	K1147	A1148	K1149	K1150	R1151	L1153	P1154	R1155	G1156	F1157	P1158	P1159	S1162	L1163	C1164	L1165	L1166	D1167	A1103	W1039	L1104		
V1169	K1170	W1171	A1174	H1175	R1178	P1179	Q1180	THR	GLU	CYS	ARG	HIS	LYS	SER	ILE	GLU	LEU	PHE	TVR	LYS	PHE	VAL	PRO	L1133	L1134	L1135	R1136	I1137	L1138	E1139	K1140	L1141	H1142	V1143	S1144	L1145	M1146	K1147	A1148	K1149	K1150	R1151	L1153	P1154	R1155	G1156	F1157	P1158	P1159	S1162	L1163	C1164	L1165	L1166	D1167	A1103	W1039	L1104

UNK	L1752	S1882	C1947	R2008	D2073	F2145	L2211	G2273	N2335	L2402	S2466	R2537	UNK
UNK	S1783	R1883	A1948	K2009	P2074	L2146	A2212	I2274	I2336	C2403	T2467	R2538	UNK
UNK	Q1754	R1884	L1949	E2010	T2075	A2147	M2213	Q2276	E2337	R2404	R2470	L2540	UNK
UNK	S1755	P1885	S1950	A2011	A2076	K2148	R2214	L2276	E2338	R2405	E2471	L2541	UNK
UNK	P1756	K1886	V1951	R2012	H2077	L2149	L2215	G2277	L2341	G2406	Q2472	L2542	UNK
UNK	M1757	D1887	L1952	E2013	D2078	V2150	L2216	G2278	L2342	K2408	M2473	L2543	UNK
UNK	L1758	D1888	C1953	A2014	D2079	T2151	L2217	I2279	L2343	L2409	M2474	S2544	UNK
UNK	L1759	V1889	C1954	A2015	V2080	M2152	L2219	V2280	L2344	E2410	R2475	L2545	MSE
UNK	E1760	H1890	V1955	N2016	N2081	T2153	M2220	M2281	V2345	E2411	L2476	L2546	UNK
UNK	L1761	A1891	F1956	G2017	E2082	E2154	K2221	A2282	Q2348	Y2412	L2477	S2547	UNK
UNK	M1762	SER	M1957	D2018	L2083	R2155	H2222	N2283	L2349	F2413	M2478	L2477	UNK
UNK	T1763	LEU	L1958	S2019	E2084	V2156	F2224	L2284	K2350	F2413	M2479	M2549	UNK
UNK	GIU	ASP	L1959	S2019	M2085	F2157	F2224	L2285	Q2351	K2416	L2480	L2550	UNK
UNK	VAL	ALA	K1895	P2022	M2086	K2158	H2225	P2286	H2352	K2416	H2481	E2551	UNK
UNK	LEU	LEU	I1896	S2023	E2087	F2159	P2226	P2287	I2352	D2419	D2482	D2552	UNK
UNK	LEU	LEU	M1897	S2023	L2088	Y2160	P2226	Y2288	Q2353	F2420	R2483	R2553	UNK
UNK	CYS	ARG	Q1898	S2026	R2089	K2161	R2228	I2288	N2354	V2421	R2485	F2554	UNK
UNK	ARG	GLU	F1899	S2027	N2090	A2161	A2229	D2289	T2355	V2422	P2487	L2555	UNK
UNK	GLU	PHE	V1900	S2027	R2090	K2162	R2228	P2290	N2356	Q2422	P2488	S2556	UNK
UNK	GLN	PHE	F1900	L2028	H2091	H2163	F2231	C2292	E2357	M2423	E2488	L2557	UNK
UNK	GLN	SER	S1903	S2029	E2092	H2164	F2231	C2292	D2358	R2424	T2491	T2558	UNK
UNK	HIS	THR	C1904	Y2030	F1967	L2165	R2232	G2293	E2359	H2426	T2491	T2559	UNK
UNK	VAL	THR	I1905	L2031	F1968	M2094	H2233	I2294	K2359	R2427	S2495	M2560	UNK
UNK	MSE	VAL	T1906	A2032	E1968	F2167	N2234	I2294	F2360	E2430	I2498	L2562	UNK
UNK	GLU	VAL	G1907	D2033	P2096	L2168	L2235	Q2295	I2361	K2430	L2498	L2563	UNK
UNK	GLU	ASP	G1908	D2033	P2097	L2169	E2236	E2298	V2362	R2437	V2505	M2564	UNK
UNK	LEU	ALA	M1909	L2086	T2098	Q2170	I2237	Y2299	C2363	E2430	L2506	M2565	UNK
UNK	PHE	ILE	E1910	S2037	T2098	L2171	I2238	Q2300	L2364	K2433	L2507	L2566	UNK
UNK	ILE	ASP	E1911	S2037	A2099	L2171	K2239	Q2301	M2365	R2434	Q2508	L2567	UNK
UNK	GLN	ASP	L1911	E2038	L2100	S2174	I2240	A2302	Q2366	L2435	P2372	M2568	UNK
UNK	VAL	VAL	L1912	E2039	V2101	R2174	T2240	S2308	K2366	L2436	F2378	S2569	UNK
UNK	LEU	LEU	K1913	M2040	M2102	E2175	L2241	F2309	V2367	L2437	M2379	P2570	UNK
UNK	LEU	SER	L1914	M2040	H2103	M2176	V2242	L2303	T2368	L2438	M2379	M2573	UNK
UNK	LYS	LYS	S2041	Q2042	M2104	M2177	E2243	V2304	T2369	D2437	A2375	M2574	UNK
UNK	ARG	SER	L1915	Q2042	M2104	M2177	E2243	V2304	K2369	L2439	D2376	P2575	UNK
UNK	ARG	ARG	L1916	F2043	P2110	H2182	W2245	M2307	S2370	L2440	F2377	M2576	UNK
UNK	ARG	ARG	K1917	D2044	P2111	I2184	K2246	F2309	F2371	L2441	R2445	L2577	UNK
UNK	ILE	PHE	K1918	F2044	Q2112	Y2184	K2246	F2309	P2372	L2442	L2446	P2578	UNK
UNK	ALA	ALA	C1919	F2046	Q2112	M2185	C2248	V2310	P2373	M2441	L2446	Q2517	UNK
UNK	ALA	ALA	Y1920	T2047	D2116	M2186	C2248	Y2312	L2374	M2443	P2448	Q2518	UNK
UNK	F1923	F1923	F1923	Q2048	D2116	V2186	S2250	K2313	A2375	M2444	V2449	L2519	UNK
UNK	T1924	T1924	T1924	V2049	P2119	V2187	Y2253	E2314	D2376	F2444	E2450	L2520	UNK
UNK	E1925	E1925	E1925	Q2051	R2120	E2188	R2254	E2314	F2384	L2451	E2450	L2521	UNK
UNK	F1926	F1926	F1926	S2052	D2121	L2189	K2254	E2314	F2384	R2452	R2452	L2522	UNK
UNK	M1927	M1927	M1927	Y2053	D2121	V2190	L2255	Y2316	L2386	E2453	L2454	F2524	UNK
UNK	A1928	A1928	A1928	S2054	L2122	L2199	L2255	A2317	L2386	L2454	L2455	M2525	UNK
UNK	G1929	G1929	G1929	Y2054	W2125	A2200	I2256	A2318	K2388	L2455	L2455	M2526	UNK
UNK	E1933	E1933	E1933	D2058	M2126	F2261	F2257	A2318	F2389	M2456	M2456	S2527	UNK
UNK	T1868	T1868	T1868	P2059	K2127	P2202	E2264	A2320	H2390	V2457	V2458	H2527	UNK
UNK	K1869	K1869	K1869	R2060	F2128	G2204	P2265	A2321	G2391	V2458	V2458	R2530	UNK
UNK	K1870	K1870	K1870	A2062	L2129	V2205	H2266	V2322	L2396	E2461	E2461	R2531	UNK
UNK	M1871	M1871	M1871	A2062	L2129	V2205	S2267	V2329	L2396	F2461	F2461	P2532	UNK
UNK	G1872	G1872	G1872	T2063	M2141	K2267	K2268	V2330	C2397	V2462	V2462	S2533	UNK
UNK	Y1873	Y1873	Y1873	T2063	M2141	K2267	K2268	V2330	L2398	S2463	S2463	T2534	UNK
UNK	Y1874	Y1874	Y1874	G2064	P2136	P2202	P2264	I2326	G2391	H2464	H2464	T2535	UNK
UNK	K1875	K1875	K1875	R2065	L2137	T2203	P2265	R2328	L2396	V2465	V2465	L2536	UNK
UNK	F1814	F1814	F1814	F2066	V2138	G2204	H2266	R2328	L2396	E2461	E2461	L2537	UNK
UNK	T1815	T1815	T1815	R2067	P2139	V2205	S2267	V2329	L2396	F2461	F2461	P2532	UNK
UNK	R1816	R1816	R1816	K2068	L2140	K2267	K2268	V2330	L2398	V2462	V2462	S2533	UNK
UNK	Q1817	Q1817	Q1817	R2069	M2141	K2267	K2268	V2330	L2398	S2463	S2463	T2534	UNK
UNK	V1819	V1819	V1819	E2070	L2142	D2208	E2209	E2332	S2399	H2464	H2464	T2535	UNK
UNK	Y1881	Y1881	Y1881	R2072	L2144	V2210	V2272	K2334	V2401	P2465	P2465	L2536	UNK

4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	169.12Å 132.64Å 296.59Å 90.00° 105.53° 90.00°	Depositor
Resolution (Å)	49.92 – 4.30 49.92 – 4.30	Depositor EDS
% Data completeness (in resolution range)	97.8 (49.92-4.30) 97.6 (49.92-4.30)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.33 (at 4.29Å)	Xtrriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.386 , 0.437 0.388 , 0.439	Depositor DCC
R_{free} test set	2009 reflections (2.32%)	wwPDB-VP
Wilson B-factor (Å ²)	184.6	Xtrriage
Anisotropy	0.337	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 188.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.019 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.83	EDS
Total number of atoms	59694	wwPDB-VP
Average B, all atoms (Å ²)	253.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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	0.45	3/29743 (0.0%)	0.77	47/40014 (0.1%)
1	B	0.46	6/29743 (0.0%)	0.77	49/40014 (0.1%)
2	K	0.22	0/7	0.50	0/7
2	S	0.45	0/7	0.34	0/7
All	All	0.46	9/59500 (0.0%)	0.77	96/80042 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	8
1	B	0	6
All	All	0	14

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1069	HIS	C-N	-9.65	1.16	1.34
1	B	3794	VAL	C-N	-8.26	1.18	1.34
1	B	1069	HIS	C-N	7.70	1.48	1.34
1	B	4124	TRP	CB-CG	-6.16	1.39	1.50
1	A	601	TRP	CB-CG	-5.75	1.40	1.50
1	B	3981	TYR	CD1-CE1	-5.53	1.31	1.39
1	B	2546	TYR	CB-CG	-5.38	1.43	1.51
1	B	2546	TYR	CD2-CE2	-5.37	1.31	1.39
1	A	2362	VAL	CB-CG1	-5.04	1.42	1.52

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	726	LEU	CA-CB-CG	-10.22	91.80	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3456	LEU	CA-CB-CG	9.67	137.54	115.30
1	B	1009	LEU	CB-CG-CD1	-9.35	95.11	111.00
1	A	3456	LEU	CA-CB-CG	9.33	136.75	115.30
1	B	726	LEU	CA-CB-CG	-9.12	94.32	115.30
1	B	1010	LEU	CA-CB-CG	9.01	136.02	115.30
1	A	2926	LEU	CA-CB-CG	8.88	135.71	115.30
1	A	1010	LEU	CA-CB-CG	8.37	134.55	115.30
1	A	3882	LEU	CA-CB-CG	-8.14	96.57	115.30
1	B	2542	LEU	CA-CB-CG	7.94	133.56	115.30
1	A	3575	LEU	CA-CB-CG	7.75	133.12	115.30
1	A	1165	LEU	CA-CB-CG	7.67	132.95	115.30
1	A	2542	LEU	CA-CB-CG	7.53	132.63	115.30
1	B	1165	LEU	CA-CB-CG	7.50	132.54	115.30
1	A	1976	LEU	CB-CG-CD1	-7.38	98.45	111.00
1	B	1695	LEU	CA-CB-CG	7.22	131.91	115.30
1	B	4051	LEU	CA-CB-CG	6.89	131.15	115.30
1	A	3321	LEU	CB-CG-CD2	-6.88	99.31	111.00
1	A	3788	LEU	CA-CB-CG	-6.87	99.49	115.30
1	B	1717	LEU	CA-CB-CG	-6.85	99.53	115.30
1	A	1025	LEU	CA-CB-CG	-6.81	99.63	115.30
1	B	3397	GLN	CA-CB-CG	6.52	127.75	113.40
1	B	220	LEU	CA-CB-CG	6.52	130.29	115.30
1	B	515	ARG	NE-CZ-NH1	-6.47	117.07	120.30
1	A	3480	LEU	CA-CB-CG	6.27	129.73	115.30
1	A	455	LEU	CA-CB-CG	6.26	129.70	115.30
1	B	862	LEU	CB-CG-CD2	-6.26	100.36	111.00
1	A	3665	MSE	CB-CG-SE	6.25	131.43	112.70
1	B	1580	LEU	CA-CB-CG	6.24	129.65	115.30
1	A	1111	LEU	CA-CB-CG	-6.24	100.95	115.30
1	A	2241	LEU	CA-CB-CG	-6.19	101.07	115.30
1	B	1984	LEU	CA-CB-CG	6.17	129.49	115.30
1	B	2892	LEU	CA-CB-CG	6.14	129.43	115.30
1	B	1812	LEU	CA-CB-CG	6.14	129.43	115.30
1	A	1524	LEU	CA-CB-CG	6.13	129.41	115.30
1	A	1145	LEU	CA-CB-CG	6.13	129.40	115.30
1	B	2921	LEU	CA-CB-CG	6.09	129.30	115.30
1	B	3667	LEU	CA-CB-CG	6.07	129.26	115.30
1	B	3416	LEU	CA-CB-CG	6.03	129.16	115.30
1	A	718	MSE	CB-CG-SE	-6.02	94.64	112.70
1	B	942	LEU	CB-CG-CD1	-6.02	100.77	111.00
1	A	1648	LEU	CA-CB-CG	5.95	128.99	115.30
1	A	901	MSE	CA-CB-CG	-5.94	103.20	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1025	LEU	CA-CB-CG	-5.93	101.66	115.30
1	B	3988	LEU	CA-CB-CG	-5.87	101.80	115.30
1	A	204	LEU	CA-CB-CG	-5.84	101.87	115.30
1	B	913	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	B	3230	LEU	CA-CB-CG	5.79	128.61	115.30
1	A	1984	LEU	CA-CB-CG	5.75	128.52	115.30
1	A	3963	LEU	CA-CB-CG	5.75	128.52	115.30
1	B	942	LEU	CA-CB-CG	5.73	128.47	115.30
1	B	734	LEU	CA-CB-CG	-5.71	102.17	115.30
1	B	130	LEU	CB-CG-CD1	-5.69	101.33	111.00
1	B	545	LEU	CA-CB-CG	5.68	128.37	115.30
1	B	1686	LEU	CA-CB-CG	-5.66	102.29	115.30
1	B	3734	ARG	NE-CZ-NH2	-5.64	117.48	120.30
1	B	2097	LEU	CB-CG-CD2	-5.62	101.44	111.00
1	A	1752	LEU	CA-CB-CG	-5.56	102.50	115.30
1	B	612	LEU	CA-CB-CG	5.56	128.08	115.30
1	A	1812	LEU	CA-CB-CG	5.54	128.05	115.30
1	B	1643	MSE	CB-CG-SE	-5.52	96.14	112.70
1	B	583	LEU	CA-CB-CG	5.51	127.97	115.30
1	B	2539	LEU	CA-CB-CG	5.50	127.95	115.30
1	A	2921	LEU	CA-CB-CG	5.49	127.92	115.30
1	A	414	LEU	CA-CB-CG	-5.43	102.81	115.30
1	B	3788	LEU	CA-CB-CG	-5.38	102.94	115.30
1	A	2235	LEU	CA-CB-CG	5.37	127.65	115.30
1	A	1415	LEU	CA-CB-CG	-5.37	102.96	115.30
1	A	1976	LEU	CA-CB-CG	5.35	127.61	115.30
1	A	1915	LEU	CA-CB-CG	5.33	127.55	115.30
1	A	3667	LEU	CA-CB-CG	5.33	127.56	115.30
1	B	1572	LEU	CA-CB-CG	5.28	127.44	115.30
1	B	359	LEU	CA-CB-CG	5.25	127.39	115.30
1	A	313	LEU	CA-CB-CG	5.25	127.37	115.30
1	A	421	LEU	CA-CB-CG	5.24	127.35	115.30
1	B	1930	GLU	CA-CB-CG	5.22	124.89	113.40
1	B	421	LEU	CA-CB-CG	5.21	127.28	115.30
1	A	933	LEU	CA-CB-CG	-5.21	103.32	115.30
1	A	2808	LEU	CB-CG-CD1	-5.20	102.16	111.00
1	A	563	LEU	CB-CG-CD1	-5.17	102.20	111.00
1	A	3152	SER	C-N-CA	5.17	134.63	121.70
1	A	1095	LEU	CA-CB-CG	5.16	127.17	115.30
1	B	2926	LEU	CB-CG-CD2	-5.16	102.23	111.00
1	B	3575	LEU	CA-CB-CG	5.14	127.13	115.30
1	A	892	LEU	CA-CB-CG	-5.13	103.51	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2398	LEU	CA-CB-CG	5.12	127.09	115.30
1	A	1762	MSE	CB-CG-SE	5.12	128.06	112.70
1	B	2122	LEU	CA-CB-CG	5.12	127.07	115.30
1	A	2396	LEU	CB-CG-CD2	-5.11	102.31	111.00
1	A	758	LEU	CA-CB-CG	-5.07	103.65	115.30
1	B	564	LEU	CA-CB-CG	5.05	126.91	115.30
1	B	475	LEU	CA-CB-CG	5.04	126.89	115.30
1	B	871	LEU	CA-CB-CG	5.03	126.86	115.30
1	A	1582	LEU	CA-CB-CG	-5.01	103.77	115.30
1	B	670	LEU	CA-CB-CG	5.01	126.83	115.30
1	B	3159	ARG	NE-CZ-NH2	-5.01	117.80	120.30

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1323	SER	Peptide
1	A	2283	ASN	Peptide
1	A	2372	PRO	Peptide
1	A	3547	THR	Peptide
1	A	3980	MSE	Peptide
1	A	411	PRO	Peptide
1	A	4119	ARG	Peptide
1	A	634	LEU	Peptide
1	B	1323	SER	Peptide
1	B	2372	PRO	Peptide
1	B	3547	THR	Peptide
1	B	411	PRO	Peptide
1	B	4119	ARG	Peptide
1	B	634	LEU	Peptide

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	29574	0	29642	3223	0
1	B	29574	0	29642	3283	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	K	273	0	70	9	0
2	S	273	0	73	8	0
All	All	59694	0	59427	6514	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 55.

All (6514) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2183:HIS:O	1:B:2187:VAL:HB	1.30	1.31
1:B:662:LEU:O	1:B:666:PHE:HB2	1.28	1.30
1:A:3521:ILE:O	1:A:3525:TYR:HB2	1.32	1.28
1:B:3683:CYS:SG	1:B:3736:LYS:NZ	2.12	1.23
1:B:2167:PRO:O	1:B:2171:LEU:HB2	1.39	1.18
1:B:1344:PHE:O	1:B:1348:LEU:HB2	1.41	1.18
1:A:3923:ARG:HG2	1:A:3962:ARG:HH22	1.07	1.17
1:B:1407:LYS:NZ	1:B:1460:ARG:O	1.77	1.16
1:B:3521:ILE:O	1:B:3525:TYR:HB2	1.43	1.16
1:A:2183:HIS:O	1:A:2187:VAL:HB	1.39	1.16
1:A:368:LEU:HD21	1:A:384:MSE:HB2	1.25	1.15
1:B:3868:VAL:O	1:B:3872:ARG:HB3	1.44	1.15
1:B:2872:ASP:O	1:B:2913:LYS:NZ	1.80	1.15
1:B:2477:LEU:O	1:B:2481:HIS:HB3	1.44	1.14
1:B:3467:ARG:O	1:B:3471:ILE:HB	1.46	1.14
1:B:1931:ASN:O	1:B:1938:ARG:NH2	1.80	1.13
1:B:974:CYS:HA	1:B:981:ARG:HD2	1.17	1.13
1:A:3167:ARG:HD3	1:A:3186:ARG:HG2	1.29	1.12
1:B:67:VAL:O	1:B:71:LYS:HB2	1.50	1.12
1:B:2100:LEU:HD21	1:B:2104:MSE:HE3	1.31	1.11
1:B:3099:ALA:O	1:B:3103:ILE:HB	1.47	1.11
1:A:3812:LEU:O	1:A:3816:LEU:HB2	1.49	1.11
1:A:560:LEU:HB3	1:A:616:LYS:HZ3	1.12	1.11
1:B:2960:GLU:OE2	1:B:3289:ARG:NH1	1.83	1.10
1:B:19:LEU:O	1:B:23:ASP:HB2	1.51	1.10
1:B:2891:ARG:HH22	1:B:3884:LYS:HD3	0.97	1.10
1:B:3581:PRO:HG2	1:B:3674:SER:HB2	1.34	1.09
1:A:3467:ARG:O	1:A:3471:ILE:HB	1.49	1.09
1:B:909:VAL:HG13	1:B:913:ARG:HH11	1.16	1.08
1:B:899:ARG:HH12	1:B:2570:PRO:HB2	1.17	1.08
1:B:3772:ASN:HB2	1:B:3787:GLN:HG3	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3868:VAL:O	1:A:3872:ARG:HB3	1.54	1.07
1:B:3117:ILE:HD12	1:B:3125:ARG:HH11	1.15	1.07
1:A:887:ASP:HB3	1:A:3889:ARG:HB3	1.35	1.04
1:B:2304:VAL:HG11	1:B:2344:LEU:HB3	1.40	1.04
1:B:3534:ILE:HG12	1:B:3704:GLN:HE22	1.22	1.03
1:B:2991:LYS:NZ	1:B:2995:GLU:OE2	1.91	1.03
1:A:2227:LYS:HD2	1:A:2235:LEU:HG	1.37	1.03
1:A:4082:ARG:HG3	1:A:4091:ALA:HB2	1.40	1.03
1:A:963:LYS:NZ	1:A:1006:THR:OG1	1.92	1.02
1:B:90:CYS:HB3	1:B:137:THR:HG22	1.40	1.02
1:A:327:VAL:HG22	1:A:338:LEU:HD13	1.38	1.02
1:B:2887:PRO:HB3	1:B:2922:ARG:HH11	1.24	1.02
1:B:4071:ALA:O	1:B:4075:ARG:HB3	1.58	1.01
1:B:3917:ILE:O	1:B:4048:LYS:NZ	1.92	1.01
1:A:1491:ILE:O	1:A:1497:ARG:NH1	1.93	1.00
1:B:3284:SER:HB2	1:B:3287:ARG:HH21	1.23	1.00
1:A:974:CYS:HA	1:A:981:ARG:HD2	1.41	1.00
1:A:1808:ASP:HB2	1:A:1814:PHE:HB3	1.41	0.99
1:B:2216:LEU:HD22	1:B:2249:LEU:HD11	1.43	0.99
1:B:2166:SER:O	1:B:2170:GLN:HB3	1.60	0.99
1:A:1471:GLN:O	1:A:1475:LEU:HB3	1.63	0.98
1:B:985:GLU:HG3	1:B:1031:ARG:HH22	1.25	0.98
1:B:2879:GLY:HA2	1:B:2886:GLN:HG2	1.42	0.98
1:B:3284:SER:HA	1:B:3287:ARG:HE	1.24	0.98
1:B:3699:LEU:O	1:B:3718:ARG:NH1	1.97	0.98
1:A:4103:GLN:O	1:A:4107:LEU:HB2	1.64	0.98
1:B:963:LYS:NZ	1:B:1006:THR:OG1	1.96	0.98
1:A:3819:THR:OG1	1:A:3889:ARG:NH1	1.96	0.97
1:B:1959:LEU:HD13	1:B:1998:MSE:HE3	1.44	0.97
1:A:357:LYS:HB3	1:A:360:SER:HB2	1.46	0.97
1:B:366:TYR:O	1:B:369:PHE:HB3	1.62	0.97
1:A:366:TYR:O	1:A:369:PHE:HB3	1.63	0.97
1:B:357:LYS:HB3	1:B:360:SER:HB2	1.44	0.97
1:B:2424:MSE:HG2	1:B:2433:LYS:HD2	1.47	0.96
1:B:3923:ARG:HG2	1:B:3962:ARG:HH22	1.30	0.96
1:A:2943:PHE:HD1	1:A:2944:THR:H	1.13	0.96
1:B:1093:GLU:N	1:B:1097:GLU:OE2	1.98	0.96
1:A:2070:GLU:HG3	1:A:2072:ARG:HG3	1.47	0.96
1:B:2243:GLU:HA	1:B:2246:LYS:HD2	1.46	0.96
1:A:2375:ALA:O	1:A:2379:MSE:HB3	1.66	0.96
1:B:1249:SER:O	1:B:1253:THR:HB	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1435:ASN:OD1	1:B:1489:LYS:NZ	1.99	0.96
1:B:3931:ALA:O	1:B:3935:GLY:HA2	1.63	0.96
1:A:3182:ILE:HB	1:A:3186:ARG:NH1	1.80	0.95
1:A:3923:ARG:O	1:A:3962:ARG:NH1	1.98	0.95
1:A:385:TYR:HD1	1:A:420:VAL:HG13	1.30	0.95
1:B:3819:THR:OG1	1:B:3889:ARG:NH1	2.00	0.95
1:B:2228:ARG:NH1	1:B:2269:ASP:OD1	1.98	0.95
1:A:560:LEU:HB3	1:A:616:LYS:NZ	1.81	0.95
1:A:2962:ARG:HB2	1:A:3253:SER:HB3	1.47	0.95
1:B:440:VAL:HB	1:B:483:VAL:HG12	1.46	0.95
1:B:2308:SER:HB3	1:B:2348:GLN:HG2	1.49	0.95
1:B:2538:ARG:HH11	1:B:2565:MSE:HB3	1.32	0.95
1:B:801:LYS:NZ	1:B:877:ASP:OD2	2.00	0.95
1:A:1685:ASP:HB2	1:A:1727:ARG:HH22	1.28	0.94
1:B:3887:PHE:HB3	1:B:3897:PHE:HE1	1.31	0.94
1:A:1010:LEU:HB2	1:A:1028:PHE:CD1	2.02	0.94
1:A:1733:THR:HG21	1:A:1877:LEU:HB3	1.47	0.94
1:A:3885:ARG:HE	1:A:3889:ARG:HD2	1.32	0.94
1:A:1883:ARG:HB2	1:A:1927:MSE:HE1	1.48	0.94
1:B:3923:ARG:HG2	1:B:3962:ARG:NH2	1.82	0.94
1:B:2416:LYS:O	1:B:2420:PHE:HB3	1.68	0.94
1:B:3772:ASN:HD22	1:B:3788:LEU:H	1.16	0.94
1:B:3722:PHE:HE1	1:B:3740:ILE:HG12	1.31	0.93
1:B:753:GLN:O	1:B:757:LYS:HB2	1.68	0.93
1:A:3923:ARG:HG2	1:A:3962:ARG:NH2	1.83	0.93
1:B:977:ASP:HB2	1:B:981:ARG:HB3	1.50	0.93
1:B:3920:ILE:HG13	1:B:3923:ARG:HD2	1.50	0.93
1:B:2891:ARG:NH2	1:B:3884:LYS:HD3	1.81	0.93
1:B:61:ARG:O	1:B:65:LEU:HB2	1.68	0.93
1:A:2443:MSE:HE3	1:A:2476:ILE:HB	1.48	0.93
1:A:3789:ARG:NH2	1:A:3806:LEU:HD22	1.83	0.93
1:B:1966:LEU:HD22	1:B:1991:PRO:HB3	1.50	0.93
1:A:473:PRO:HA	1:A:476:ARG:HH22	1.33	0.93
1:A:964:ARG:HB2	1:A:1009:LEU:HD22	1.49	0.93
1:A:3521:ILE:O	1:A:3525:TYR:CB	2.16	0.93
1:B:760:LEU:HD11	1:B:799:TYR:HB2	1.48	0.93
1:A:2549:LYS:HZ1	1:A:2557:LEU:HD22	1.30	0.92
1:B:659:ARG:HH22	1:B:662:LEU:HG	1.33	0.92
1:B:3462:ARG:HB2	1:B:3498:TRP:HB3	1.47	0.92
1:A:2330:VAL:HG21	1:A:2338:GLU:HB3	1.52	0.92
1:A:2457:PRO:HA	1:A:2460:GLU:HB2	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3872:ARG:HH11	1:A:3965:ARG:NH1	1.67	0.92
1:B:1949:ILE:HD12	1:B:1952:ILE:HG21	1.51	0.92
1:B:2330:VAL:HG22	1:B:2335:ASN:HA	1.51	0.92
1:B:756:PHE:HA	1:B:773:LEU:HD13	1.50	0.92
1:B:1343:GLU:O	1:B:1347:THR:OG1	1.88	0.92
1:B:1729:PHE:HE2	1:B:1870:LYS:HA	1.32	0.91
1:B:2390:HIS:HA	1:B:2397:CYS:HB2	1.52	0.91
1:A:3462:ARG:HB2	1:A:3498:TRP:HB3	1.49	0.91
1:B:970:LEU:HD22	1:B:1031:ARG:HH21	1.34	0.91
1:B:2330:VAL:HG21	1:B:2338:GLU:HB3	1.52	0.91
1:B:2011:ALA:HB3	1:B:2014:ALA:HB2	1.50	0.91
1:A:363:ILE:O	1:A:367:GLY:N	2.03	0.91
1:A:616:LYS:O	1:A:620:PHE:HB2	1.71	0.91
1:A:2375:ALA:O	1:A:2379:MSE:CB	2.19	0.91
1:B:808:GLU:HG2	1:B:852:ARG:HH21	1.31	0.91
1:B:1107:TYR:O	1:B:1110:SER:HB2	1.71	0.91
1:B:2361:ILE:HD12	1:B:2364:LEU:HD12	1.49	0.91
1:B:2559:THR:HG21	1:B:2808:LEU:HD13	1.53	0.91
1:B:1743:MSE:SE	1:B:1880:MSE:SE	2.90	0.90
1:A:3498:TRP:CD1	1:A:3502:MSE:HB2	2.05	0.90
1:B:1010:LEU:HD13	1:B:1028:PHE:HE1	1.36	0.90
1:B:429:GLU:O	1:B:431:TYR:N	2.04	0.90
1:B:3839:TYR:HE1	1:B:3867:THR:HB	1.36	0.90
1:A:1905:ILE:HG12	1:A:1951:VAL:HG11	1.51	0.90
1:A:1987:ARG:O	1:A:1991:PRO:HD3	1.71	0.90
1:A:2837:LEU:HD22	1:A:2868:LEU:HG	1.51	0.90
1:A:1106:ILE:O	1:A:1110:SER:N	2.05	0.89
1:A:1155:ARG:NH1	1:A:1155:ARG:O	2.04	0.89
1:B:4082:ARG:HG3	1:B:4091:ALA:HB2	1.54	0.89
1:B:2562:LEU:HD12	1:B:2812:LEU:HD21	1.53	0.89
1:A:1090:ARG:HH21	1:A:1100:VAL:HG11	1.35	0.89
1:A:2467:THR:HB	1:A:2518:GLN:HE22	1.35	0.89
1:A:2552:VAL:HG23	1:A:2852:PRO:HG2	1.54	0.89
1:B:1552:HIS:O	1:B:1555:HIS:ND1	2.05	0.89
1:B:2142:ILE:HA	1:B:2145:PHE:CD2	2.07	0.89
1:A:429:GLU:O	1:A:431:TYR:N	2.06	0.89
1:B:2352:HIS:HB3	1:B:2360:PHE:HB3	1.54	0.89
1:B:1651:LYS:HB2	1:B:1684:LEU:HD11	1.53	0.89
1:B:3887:PHE:HB3	1:B:3897:PHE:CE1	2.08	0.89
1:A:1931:ASN:O	1:A:1938:ARG:NH2	2.06	0.89
1:A:3816:LEU:HD13	1:A:3966:GLN:HE22	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3696:ARG:NH1	1:A:3720:ALA:O	2.05	0.88
1:B:3259:LEU:O	1:B:3263:HIS:HB2	1.73	0.88
1:B:2891:ARG:HD3	1:B:3972:LEU:HD22	1.55	0.88
1:A:1729:PHE:HE2	1:A:1870:LYS:HA	1.39	0.88
1:A:2957:LEU:HB3	1:A:3989:ARG:NH1	1.87	0.88
1:B:993:HIS:HB2	1:B:1038:LYS:HG2	1.55	0.88
1:B:473:PRO:HA	1:B:476:ARG:HH22	1.36	0.88
1:B:3048:LYS:HD3	1:B:3061:LEU:HD23	1.55	0.88
1:B:3762:GLN:HA	1:B:3793:VAL:HG21	1.54	0.88
1:A:2390:HIS:HA	1:A:2397:CYS:HB2	1.54	0.88
1:B:1241:LEU:HD11	1:B:1253:THR:HG21	1.54	0.88
1:B:2326:ILE:O	1:B:2330:VAL:HB	1.74	0.88
1:A:1010:LEU:HB2	1:A:1028:PHE:HD1	1.36	0.88
1:B:3923:ARG:O	1:B:3962:ARG:NH1	2.07	0.88
1:A:801:LYS:HB2	1:A:805:LEU:HD12	1.56	0.88
1:A:3589:SER:O	1:A:3593:ARG:HB2	1.74	0.88
1:A:3772:ASN:HB2	1:A:3787:GLN:HG3	1.55	0.88
1:B:1582:LEU:HD22	1:B:1600:MSE:HE1	1.52	0.88
1:A:90:CYS:HB3	1:A:137:THR:HG22	1.56	0.88
1:A:3772:ASN:ND2	1:A:3788:LEU:O	2.06	0.88
1:A:185:HIS:H	1:A:186:PRO:HD2	1.38	0.88
1:A:658:THR:HA	1:A:733:LEU:HD22	1.55	0.88
1:A:2022:PRO:HB2	1:A:2072:ARG:HH21	1.36	0.88
1:B:741:ILE:O	1:B:744:ASP:N	2.05	0.88
1:B:1018:VAL:HB	1:B:1074:LYS:HB2	1.54	0.88
1:B:658:THR:HA	1:B:733:LEU:HD22	1.55	0.87
1:B:662:LEU:O	1:B:666:PHE:CB	2.20	0.87
1:A:473:PRO:HA	1:A:476:ARG:NH2	1.88	0.87
1:A:535:LEU:HD21	1:A:623:PHE:HA	1.55	0.87
1:B:1808:ASP:HB2	1:B:1814:PHE:HB3	1.54	0.87
1:B:2546:TYR:CE1	1:B:2558:ALA:HB2	2.09	0.87
1:A:105:VAL:HG21	1:A:149:ILE:HD13	1.53	0.87
1:B:252:VAL:HG11	1:B:265:TYR:HB2	1.56	0.87
1:A:3003:ASN:ND2	1:A:3014:CYS:SG	2.47	0.87
1:A:2378:PHE:HE1	1:A:2408:MSE:HE1	1.40	0.87
1:B:2307:MSE:HB3	1:B:2348:GLN:HE22	1.39	0.87
1:A:2477:LEU:O	1:A:2481:HIS:HB3	1.74	0.87
1:B:591:GLN:OE1	1:B:1026:ARG:NH1	2.08	0.87
1:B:2253:TYR:HD1	1:B:2256:ILE:HD12	1.37	0.86
1:A:866:ILE:HD13	1:A:3129:LEU:HB3	1.57	0.86
1:B:3530:VAL:HG11	1:B:3702:PRO:HD3	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1107:TYR:O	1:A:1110:SER:HB2	1.74	0.86
1:A:3492:CYS:O	1:A:3495:PHE:HB3	1.74	0.86
1:B:2286:PRO:HB2	1:B:2289:ASP:HA	1.57	0.86
1:A:1407:LYS:O	1:A:1409:SER:N	2.08	0.86
1:A:793:LEU:HA	1:A:796:LEU:HG	1.58	0.86
1:A:1919:CYS:O	1:A:1923:PHE:HB2	1.76	0.86
1:A:2563:LEU:O	1:A:2567:SER:OG	1.93	0.86
1:B:2837:LEU:HA	1:B:2840:PHE:HD2	1.40	0.86
1:A:1603:GLN:OE1	1:A:1606:ARG:NH2	2.08	0.86
1:A:4071:ALA:O	1:A:4075:ARG:HB3	1.76	0.86
1:B:2253:TYR:HB2	1:B:2291:GLN:HG2	1.56	0.86
1:B:2443:MSE:SE	1:B:2476:ILE:HB	2.25	0.86
1:A:1749:ALA:HA	1:A:1752:LEU:HD12	1.55	0.86
1:B:658:THR:HG22	1:B:659:ARG:NH1	1.89	0.86
1:B:3167:ARG:HH11	1:B:3167:ARG:HG3	1.40	0.86
1:A:659:ARG:HH22	1:A:662:LEU:HG	1.41	0.86
1:A:3326:GLN:HB2	1:A:3393:GLU:HG2	1.56	0.86
1:A:1762:MSE:SE	1:A:1896:ILE:HG23	2.26	0.85
1:A:3581:PRO:HG2	1:A:3674:SER:HB2	1.58	0.85
1:B:1733:THR:HG21	1:B:1877:LEU:HB3	1.55	0.85
1:A:2142:ILE:HA	1:A:2145:PHE:CD2	2.11	0.85
1:B:745:VAL:HG11	1:B:776:TRP:HZ2	1.39	0.85
1:A:527:TYR:OH	1:A:615:ALA:O	1.93	0.85
1:A:1010:LEU:HA	1:A:1013:ILE:HG12	1.56	0.85
1:B:2358:ASP:HB2	1:B:2396:LEU:HD21	1.57	0.85
1:B:3326:GLN:HB2	1:B:3393:GLU:HG2	1.57	0.85
1:B:3868:VAL:O	1:B:3872:ARG:CB	2.24	0.85
1:A:3613:MSE:HE1	1:A:3617:LEU:HD12	1.56	0.85
1:A:4007:LYS:HG3	1:A:4041:ARG:HD2	1.55	0.85
1:B:3632:PHE:O	1:B:3637:GLY:N	2.08	0.85
1:A:2330:VAL:HG22	1:A:2335:ASN:HA	1.57	0.85
1:B:725:LEU:O	1:B:728:SER:OG	1.94	0.85
1:B:3487:ILE:HG21	1:B:3495:PHE:HB2	1.58	0.85
1:A:2043:PHE:O	1:A:2047:THR:OG1	1.93	0.85
1:B:2227:LYS:HD2	1:B:2235:LEU:HG	1.58	0.85
1:B:2375:ALA:O	1:B:2379:MSE:HB3	1.76	0.85
1:B:2478:MSE:O	1:B:2482:ASP:HB3	1.76	0.85
1:A:971:ARG:HG3	1:A:972:LEU:N	1.90	0.85
1:A:2007:ILE:HG22	1:A:2009:LYS:HB2	1.57	0.85
1:B:2070:GLU:HG3	1:B:2072:ARG:HG3	1.57	0.85
1:B:3589:SER:O	1:B:3593:ARG:HB2	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:974:CYS:HA	1:A:981:ARG:CD	2.07	0.84
1:B:1010:LEU:HB2	1:B:1028:PHE:HD1	1.40	0.84
1:B:2481:HIS:HE1	1:B:2485:ARG:NH1	1.75	0.84
1:B:3583:LEU:HD11	1:B:3733:ARG:HB3	1.57	0.84
1:A:2161:ALA:HA	1:A:2164:TRP:HD1	1.42	0.84
1:B:2300:PHE:CZ	1:B:2341:LEU:HB2	2.12	0.84
1:B:3811:THR:OG1	1:B:3813:LYS:NZ	2.09	0.84
1:A:2292:CYS:HB3	1:A:2300:PHE:HB2	1.57	0.84
1:A:2837:LEU:HA	1:A:2840:PHE:HD2	1.41	0.84
1:B:2196:TRP:CD2	1:B:2199:LEU:HD11	2.12	0.84
1:B:3182:ILE:HB	1:B:3186:ARG:NH1	1.91	0.84
1:A:286:LEU:HB2	1:A:290:TYR:HB2	1.59	0.84
1:B:978:GLN:HA	1:B:981:ARG:HE	1.42	0.84
1:B:3243:ILE:HG12	1:B:3258:LEU:HD11	1.58	0.84
1:B:3725:ARG:HH12	1:B:3737:ARG:NH2	1.74	0.84
1:B:3879:PRO:HA	1:B:3882:LEU:HB2	1.58	0.84
1:A:3174:ASP:H	1:A:3175:PRO:HD2	1.42	0.84
1:A:3868:VAL:HG11	1:A:4114:PRO:HB3	1.60	0.84
1:B:3117:ILE:HD12	1:B:3125:ARG:NH1	1.91	0.84
1:A:361:ILE:HB	1:A:364:ARG:NH2	1.92	0.84
1:A:3092:LEU:HA	1:A:3192:LYS:HE3	1.58	0.84
1:B:1162:SER:H	1:B:1165:LEU:HD12	1.42	0.84
1:B:2552:VAL:HG23	1:B:2852:PRO:HG2	1.57	0.84
1:B:3486:GLU:HG3	1:B:3487:ILE:H	1.43	0.84
1:B:3858:MSE:HE3	1:B:4119:ARG:HA	1.60	0.84
1:B:2161:ALA:HA	1:B:2164:TRP:HD1	1.43	0.84
1:B:2329:TYR:O	1:B:2333:ARG:N	2.11	0.84
1:A:1410:PRO:HB2	1:A:1414:ILE:HD12	1.58	0.84
1:A:1743:MSE:O	1:A:1747:LEU:HB2	1.78	0.83
1:A:1992:VAL:O	1:A:1996:VAL:HG22	1.78	0.83
1:A:2542:LEU:HB2	1:A:2546:TYR:HE2	1.42	0.83
1:B:3687:MSE:O	1:B:3689:ASP:N	2.11	0.83
1:B:2152:ASN:HB3	1:B:2153:THR:HA	1.60	0.83
1:B:3900:LEU:HD21	1:B:3935:GLY:HA3	1.59	0.83
1:B:4103:GLN:O	1:B:4107:LEU:HB2	1.77	0.83
1:A:968:VAL:HG23	1:A:971:ARG:HD3	1.60	0.83
1:A:2415:LEU:O	1:A:2419:ASP:HB2	1.78	0.83
1:B:971:ARG:HG3	1:B:972:LEU:N	1.93	0.83
1:B:2813:PHE:HD2	1:B:2859:GLN:HG3	1.43	0.83
1:B:3499:ILE:HG23	1:B:3535:ILE:HD13	1.60	0.83
1:A:352:VAL:HG23	1:A:357:LYS:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3521:ILE:O	1:B:3525:TYR:CB	2.27	0.83
1:B:2274:ILE:HD13	1:B:2318:ALA:HB2	1.60	0.83
1:A:61:ARG:O	1:A:65:LEU:HB2	1.77	0.83
1:A:4090:ARG:HH11	1:A:4106:CYS:HA	1.41	0.83
2:K:106:UNK:O	2:K:110:UNK:N	2.11	0.83
1:B:609:ALA:H	1:B:1798:LEU:HD12	1.43	0.83
1:B:1073:PHE:HD1	1:B:1074:LYS:H	1.27	0.83
1:B:3725:ARG:NH1	1:B:3737:ARG:HH22	1.76	0.83
1:A:2361:ILE:HD12	1:A:2364:LEU:HD12	1.61	0.83
1:A:2478:MSE:O	1:A:2482:ASP:HB3	1.78	0.83
1:B:658:THR:HG22	1:B:659:ARG:HH11	1.41	0.83
1:A:1886:LYS:HZ2	1:A:1924:THR:HB	1.44	0.83
1:B:215:PRO:HG3	1:B:251:PHE:HB3	1.59	0.83
1:B:245:SER:HA	1:B:248:ILE:HD12	1.58	0.83
1:B:2435:CYS:O	1:B:2439:ILE:HB	1.77	0.83
1:B:1087:ARG:HD3	1:B:1134:LEU:HB3	1.60	0.83
1:B:3012:GLU:HB2	1:B:3050:LYS:NZ	1.94	0.83
1:A:575:ILE:HA	1:A:578:LYS:HB2	1.61	0.83
1:B:3034:PRO:HG2	1:B:3037:GLN:HB2	1.61	0.83
1:A:1138:ILE:HD13	1:A:1150:LYS:HE2	1.60	0.82
1:A:3961:PHE:CE1	1:A:3963:LEU:HB2	2.14	0.82
1:A:3972:LEU:O	1:A:3974:MSE:N	2.10	0.82
1:B:2957:LEU:HD22	1:B:4100:GLU:HG3	1.61	0.82
1:B:598:PRO:HB3	1:B:1022:ASP:HB2	1.59	0.82
1:B:1010:LEU:HB2	1:B:1028:PHE:CD1	2.14	0.82
1:A:1751:GLU:O	1:A:1755:SER:N	2.11	0.82
1:B:3737:ARG:HH11	1:B:3739:ILE:HD11	1.43	0.82
1:B:3816:LEU:HD21	1:B:3883:LEU:HD13	1.59	0.82
1:A:1651:LYS:HB3	1:A:1680:ALA:HB1	1.59	0.82
1:A:2196:TRP:CD2	1:A:2199:LEU:HD11	2.14	0.82
1:A:1007:VAL:O	1:A:1011:GLU:HB2	1.79	0.82
1:A:2002:LYS:O	1:A:2004:TYR:N	2.12	0.82
1:A:203:GLU:O	1:A:207:GLN:HB2	1.78	0.82
1:A:1070:PRO:HB2	1:A:1073:PHE:CZ	2.14	0.82
1:A:2049:VAL:HA	1:A:2052:TYR:HD2	1.42	0.82
1:A:3722:PHE:HE1	1:A:3740:ILE:HG12	1.44	0.82
1:A:4057:ALA:HB3	1:A:4059:ILE:HB	1.60	0.82
1:B:3751:LEU:O	1:B:3802:LEU:HG	1.80	0.82
1:A:70:ARG:HD3	1:A:82:ARG:HD3	1.59	0.82
1:A:959:TYR:O	1:A:963:LYS:HB2	1.80	0.82
1:A:3789:ARG:HH22	1:A:3806:LEU:HD22	1.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:ILE:HG21	1:B:616:LYS:HD2	1.60	0.82
1:B:2375:ALA:O	1:B:2379:MSE:CB	2.28	0.82
1:A:3152:SER:HB3	1:A:3153:SER:HB3	1.61	0.82
1:B:1346:THR:HG21	1:B:1401:ASN:HB3	1.62	0.82
1:B:1729:PHE:CE2	1:B:1870:LYS:HA	2.15	0.82
1:A:978:GLN:HA	1:A:981:ARG:HE	1.44	0.81
1:A:3820:MSE:HA	1:A:3882:LEU:HD22	1.62	0.81
1:B:974:CYS:HA	1:B:981:ARG:CD	2.07	0.81
1:B:2126:MSE:HG3	1:B:2129:LEU:HD12	1.61	0.81
1:B:2531:LEU:HG	1:B:2538:ARG:HB2	1.62	0.81
1:A:3872:ARG:O	1:A:3876:SER:OG	1.98	0.81
1:B:956:PRO:HB2	1:B:957:PRO:HD3	1.62	0.81
1:B:3449:LYS:HA	1:B:3452:LYS:HD2	1.62	0.81
1:A:1155:ARG:HH12	1:A:1159:PRO:HD3	1.45	0.81
1:A:1696:LEU:HA	1:A:1700:THR:HG21	1.61	0.81
1:A:2167:PRO:O	1:A:2171:LEU:CB	2.28	0.81
1:A:3762:GLN:HA	1:A:3793:VAL:HG21	1.62	0.81
1:B:1729:PHE:CZ	1:B:1870:LYS:HG3	2.15	0.81
1:B:1744:LYS:HG3	1:B:1880:MSE:HE3	1.60	0.81
1:B:1930:GLU:N	1:B:1930:GLU:OE2	2.13	0.81
1:B:1987:ARG:O	1:B:1991:PRO:HD3	1.80	0.81
1:B:3044:MSE:O	1:B:3047:SER:OG	1.96	0.81
1:A:2167:PRO:O	1:A:2171:LEU:HB2	1.79	0.81
1:B:3498:TRP:CD1	1:B:3502:MSE:HB2	2.14	0.81
1:B:3572:ILE:HA	1:B:3575:LEU:HD22	1.62	0.81
1:A:2538:ARG:NH1	1:A:2562:LEU:O	2.13	0.81
1:A:3269:ARG:NH1	1:A:3312:VAL:HA	1.96	0.81
1:B:431:TYR:HA	1:B:434:VAL:HG12	1.63	0.81
1:B:1877:LEU:O	1:B:1920:TYR:OH	1.98	0.81
1:B:3238:MSE:SE	1:B:3242:MSE:SE	2.99	0.81
1:A:1080:LEU:HD12	1:A:1081:ALA:H	1.46	0.81
1:B:916:GLU:HB3	1:B:930:ALA:HB1	1.63	0.81
1:B:2260:PHE:HD1	1:B:2274:ILE:HG22	1.46	0.81
1:A:741:ILE:O	1:A:744:ASP:N	2.09	0.81
1:B:2031:LEU:HB2	1:B:2033:ASP:HB2	1.61	0.81
1:A:382:ASP:O	1:A:386:VAL:HB	1.79	0.81
1:A:1729:PHE:CZ	1:A:1870:LYS:HG3	2.16	0.81
1:A:2239:LYS:HG3	1:A:2279:ILE:HG23	1.62	0.81
1:A:3319:ASN:HD22	1:A:3407:ALA:HB1	1.45	0.81
1:B:1017:ILE:HG21	1:B:1025:LEU:HD22	1.63	0.81
1:A:1594:SER:O	1:A:1598:ASN:HB2	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1090:ARG:HH21	1:B:1100:VAL:HG11	1.45	0.81
1:A:977:ASP:HB3	1:A:981:ARG:H	1.46	0.81
1:B:891:ARG:HE	1:B:894:PHE:HB3	1.46	0.81
1:B:2379:MSE:HE1	1:B:2404:ARG:HD3	1.61	0.81
1:B:2446:LEU:O	1:B:2451:LEU:HB2	1.81	0.81
1:A:970:LEU:CD2	1:A:1031:ARG:HH21	1.94	0.80
1:A:1552:HIS:O	1:A:1555:HIS:ND1	2.14	0.80
1:B:959:TYR:O	1:B:963:LYS:HB2	1.81	0.80
1:A:459:ARG:HG2	1:A:540:MSE:HE1	1.60	0.80
1:A:3872:ARG:HH11	1:A:3965:ARG:HH12	1.27	0.80
1:B:1729:PHE:HZ	1:B:1870:LYS:HG3	1.45	0.80
1:B:3530:VAL:HG21	1:B:3701:ILE:HA	1.63	0.80
1:A:805:LEU:HD22	1:A:3125:ARG:HH11	1.45	0.80
1:A:2559:THR:HG21	1:A:2808:LEU:HD13	1.61	0.80
1:B:893:SER:HB3	1:B:906:PHE:HB2	1.63	0.80
1:B:931:CYS:SG	1:B:984:TYR:OH	2.39	0.80
1:B:1090:ARG:HH12	1:B:1096:VAL:HG13	1.45	0.80
1:A:2243:GLU:HA	1:A:2246:LYS:HD2	1.63	0.80
1:B:266:ALA:HB2	1:B:308:LEU:HG	1.63	0.80
1:A:369:PHE:CD1	1:A:416:SER:HA	2.17	0.80
1:A:619:ASP:O	1:A:622:ALA:N	2.14	0.80
1:A:3638:LYS:HA	1:A:3641:ASP:HB2	1.63	0.80
1:B:2253:TYR:CD1	1:B:2256:ILE:HD12	2.16	0.80
1:A:725:LEU:O	1:A:728:SER:OG	1.99	0.80
1:B:1996:VAL:HG11	1:B:2048:GLY:HA2	1.63	0.80
1:A:939:MSE:SE	1:A:2783:ILE:HG12	2.30	0.80
1:A:3046:ARG:NH2	1:A:3181:ASP:OD2	2.14	0.80
1:A:627:VAL:HG12	1:A:628:GLU:H	1.46	0.80
1:B:295:GLU:HA	1:B:298:LEU:HD22	1.63	0.80
1:A:705:ALA:HB1	1:A:1385:ASN:HD21	1.46	0.79
1:A:1429:GLU:O	1:A:1433:ALA:HB2	1.81	0.79
1:B:16:GLN:O	1:B:20:SER:HB3	1.81	0.79
1:B:3255:ALA:O	1:B:3282:ARG:NH2	2.15	0.79
1:B:1112:ALA:HA	1:B:1115:HIS:CE1	2.17	0.79
1:B:2546:TYR:HE1	1:B:2558:ALA:HB2	1.43	0.79
1:A:2861:ILE:HG21	1:A:2889:GLY:HA2	1.61	0.79
1:B:286:LEU:HB2	1:B:290:TYR:HB2	1.65	0.79
1:B:3252:PHE:HA	1:B:3282:ARG:HD2	1.65	0.79
1:B:726:LEU:HA	1:B:729:CYS:SG	2.22	0.79
1:B:1918:LEU:HD11	1:B:1957:ASN:HB3	1.63	0.79
1:B:2423:VAL:O	1:B:2425:ARG:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2837:LEU:HD22	1:B:2868:LEU:HG	1.64	0.79
1:B:2987:THR:HB	1:B:2991:LYS:H	1.46	0.79
1:A:770:LEU:HD12	1:A:851:ILE:HD13	1.61	0.79
1:A:1886:LYS:HG3	1:A:1890:HIS:HE1	1.46	0.79
1:B:1410:PRO:HB2	1:B:1414:ILE:HD12	1.64	0.79
1:A:2474:TYR:HB3	1:A:2478:MSE:HE3	1.64	0.79
1:A:3989:ARG:HH21	1:A:4100:GLU:CB	1.95	0.79
1:B:12:LEU:HD22	1:B:38:LEU:HA	1.65	0.79
1:A:3450:MSE:SE	1:A:3464:LYS:HG2	2.33	0.79
1:B:637:LYS:O	1:B:641:PHE:HB3	1.81	0.79
1:A:2351:GLN:O	1:A:2355:THR:OG1	2.00	0.79
1:B:298:LEU:HD23	1:B:316:LEU:HD13	1.62	0.79
1:B:1718:ILE:HG23	1:B:1750:LEU:HD11	1.62	0.79
1:A:767:GLU:HG3	1:A:851:ILE:HD11	1.65	0.79
1:A:796:LEU:HA	1:A:799:TYR:CE2	2.18	0.79
1:A:1000:LYS:O	1:A:1002:GLU:N	2.15	0.79
1:B:1655:ILE:HG23	1:B:1677:SER:HB3	1.65	0.79
1:B:2121:ASP:HA	1:B:2126:MSE:HB3	1.63	0.79
1:B:2443:MSE:HB3	1:B:2480:ILE:HG12	1.65	0.79
1:A:162:LEU:HD21	1:A:196:LEU:HD13	1.65	0.79
1:A:3955:VAL:HG12	1:A:4027:TRP:HE1	1.47	0.79
1:B:527:TYR:OH	1:B:619:ASP:N	2.16	0.79
1:B:627:VAL:HG12	1:B:628:GLU:H	1.46	0.79
1:A:714:VAL:HG13	1:A:734:LEU:HD13	1.65	0.78
1:A:3314:SER:HA	1:A:3315:TYR:HB3	1.64	0.78
1:A:3397:GLN:HE22	1:A:3449:LYS:HD3	1.49	0.78
1:B:1011:GLU:OE2	1:B:1062:ARG:NE	2.17	0.78
1:B:1029:CYS:HB3	1:B:1085:ILE:HG13	1.63	0.78
1:A:2890:ILE:HG21	1:A:2922:ARG:HH12	1.49	0.78
1:B:1762:MSE:SE	1:B:1896:ILE:HG23	2.33	0.78
1:B:2100:LEU:O	1:B:2104:MSE:HB2	1.82	0.78
1:B:2153:THR:OG1	1:B:2154:GLU:N	2.14	0.78
1:A:3736:LYS:HB3	1:A:3752:VAL:HB	1.64	0.78
1:A:3868:VAL:O	1:A:3872:ARG:CB	2.29	0.78
1:B:1986:ARG:HH12	1:B:2036:LEU:HD22	1.46	0.78
1:A:15:LEU:HD23	1:A:2359:LYS:HZ3	1.48	0.78
1:A:903:PRO:HB2	1:A:2811:SER:HB2	1.65	0.78
1:A:2379:MSE:HE1	1:A:2404:ARG:HH11	1.49	0.78
1:B:538:ASP:HB3	1:B:627:VAL:HG13	1.66	0.78
1:B:1802:TYR:HA	1:B:1805:PHE:HD2	1.47	0.78
1:B:2911:ARG:HG2	1:B:2914:ALA:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3499:ILE:HG23	1:A:3535:ILE:HD13	1.63	0.78
1:A:3904:PHE:O	1:A:3907:SER:OG	2.01	0.78
1:B:3529:ILE:HG23	1:B:3532:PRO:HD2	1.63	0.78
1:B:439:VAL:HG11	1:B:479:ILE:HD13	1.65	0.78
1:A:376:ILE:HG13	1:A:381:VAL:HG21	1.65	0.78
1:A:2467:THR:HA	1:A:2470:ARG:HG3	1.64	0.78
1:B:808:GLU:CG	1:B:852:ARG:HH21	1.96	0.78
1:A:960:GLN:HG3	1:A:1009:LEU:HD21	1.65	0.78
1:B:3575:LEU:HG	1:B:3687:MSE:HG2	1.65	0.78
1:B:3923:ARG:NH2	1:B:3941:ASP:O	2.17	0.78
1:A:980:THR:HG23	1:A:984:TYR:HE1	1.49	0.78
1:B:281:GLN:HA	1:B:326:MSE:SE	2.34	0.78
1:A:1582:LEU:HD22	1:A:1600:MSE:HE1	1.66	0.77
1:A:3922:ASP:O	1:A:3927:ASN:ND2	2.17	0.77
1:B:2538:ARG:NH1	1:B:2565:MSE:HB3	1.98	0.77
1:B:3421:ASP:OD2	1:B:3464:LYS:NZ	2.16	0.77
1:A:87:LYS:HG2	1:A:133:LYS:HG3	1.66	0.77
1:A:1886:LYS:HG3	1:A:1890:HIS:CE1	2.19	0.77
1:A:2190:VAL:HG21	1:A:2241:LEU:HD13	1.66	0.77
1:A:3479:THR:O	1:A:3483:MSE:HB2	1.83	0.77
1:B:909:VAL:HG13	1:B:913:ARG:NH1	1.96	0.77
1:B:1407:LYS:O	1:B:1409:SER:N	2.14	0.77
1:B:2193:ILE:HA	1:B:2196:TRP:CZ2	2.20	0.77
1:A:1640:GLU:O	1:A:1644:ALA:HB2	1.85	0.77
1:A:1890:HIS:HB3	1:A:1937:ARG:HA	1.65	0.77
1:A:2253:TYR:CD1	1:A:2256:ILE:HD12	2.18	0.77
1:A:2879:GLY:HA2	1:A:2886:GLN:HG2	1.65	0.77
1:B:3684:SER:O	1:B:3688:SER:OG	2.01	0.77
1:B:3732:LEU:HD21	1:B:3926:ASN:HD21	1.48	0.77
1:A:1073:PHE:HD1	1:A:1074:LYS:H	1.30	0.77
1:A:1374:GLN:HB3	1:A:1377:CYS:HB3	1.64	0.77
1:A:1590:THR:O	1:A:1592:MSE:N	2.16	0.77
1:A:1718:ILE:HA	1:A:1725:GLN:HE21	1.50	0.77
1:A:1946:ASN:ND2	1:A:1993:GLU:OE2	2.17	0.77
1:B:805:LEU:HD22	1:B:3125:ARG:NH1	2.00	0.77
1:B:979:VAL:HG21	1:B:2656:UNK:HA	1.66	0.77
1:B:2235:LEU:O	1:B:2239:LYS:N	2.16	0.77
1:B:2457:PRO:HA	1:B:2460:GLU:HB2	1.66	0.77
1:B:3137:GLU:OE1	1:B:3167:ARG:NH1	2.18	0.77
1:A:552:SER:O	1:A:556:SER:OG	2.02	0.77
1:A:977:ASP:HB2	1:A:981:ARG:HB3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2412:TYR:HE1	1:A:2415:LEU:HD23	1.48	0.77
1:A:2467:THR:HG22	1:A:2470:ARG:NH1	2.00	0.77
1:B:1080:LEU:HD13	1:B:1127:CYS:HB3	1.66	0.77
1:A:2083:LEU:O	1:A:2087:GLU:N	2.17	0.77
1:A:2161:ALA:HA	1:A:2164:TRP:CD1	2.19	0.77
1:A:2847:THR:HB	1:A:2850:PHE:CD2	2.20	0.77
1:A:2891:ARG:NH2	1:A:3884:LYS:HD3	2.00	0.77
1:B:852:ARG:NH1	1:B:3111:MSE:SE	2.68	0.77
1:B:2300:PHE:HZ	1:B:2341:LEU:HB2	1.46	0.77
1:B:3148:GLN:HB2	1:B:3156:PRO:HB3	1.67	0.77
1:A:2049:VAL:HG11	1:A:2100:LEU:HD12	1.66	0.77
1:A:2890:ILE:HG21	1:A:2922:ARG:NH1	2.00	0.77
1:B:2459:VAL:HG21	1:B:2501:LEU:HD21	1.67	0.77
1:B:4057:ALA:HB3	1:B:4059:ILE:HB	1.65	0.77
1:A:67:VAL:O	1:A:71:LYS:HB2	1.83	0.77
1:A:2462:VAL:HB	1:A:2473:MSE:SE	2.35	0.77
1:A:3704:GLN:HB2	1:A:3796:MSE:HE2	1.66	0.77
1:A:3813:LYS:HE2	1:A:3926:ASN:HB2	1.67	0.77
1:B:385:TYR:HD1	1:B:420:VAL:HG13	1.49	0.77
1:B:446:PHE:HA	1:B:449:TYR:CE2	2.20	0.77
1:B:936:SER:HB3	1:B:2791:ILE:HG12	1.66	0.77
1:B:2236:GLU:HA	1:B:2239:LYS:HB3	1.67	0.77
1:B:3152:SER:HB3	1:B:3153:SER:HB3	1.65	0.77
1:B:3923:ARG:CG	1:B:3962:ARG:HH22	1.97	0.77
1:A:753:GLN:O	1:A:757:LYS:HB2	1.84	0.77
1:A:1343:GLU:O	1:A:1347:THR:HB	1.85	0.77
1:B:323:VAL:O	1:B:327:VAL:HB	1.84	0.77
1:B:1350:ASN:HD21	1:B:1404:LYS:HG2	1.47	0.77
1:B:1919:CYS:O	1:B:1923:PHE:HB2	1.85	0.77
1:B:1469:PRO:HA	1:B:1472:SER:HB3	1.67	0.77
1:A:1356:TRP:CZ2	1:A:1409:SER:HB3	2.20	0.76
1:A:2220:MSE:SE	1:A:2256:ILE:HD11	2.34	0.76
1:A:2239:LYS:O	1:A:2242:VAL:HB	1.85	0.76
1:A:2560:ASN:HB2	1:A:2800:ARG:HD3	1.66	0.76
1:B:2382:VAL:HG21	1:B:2404:ARG:HG3	1.64	0.76
1:B:3590:ASN:OD1	1:B:3593:ARG:NH2	2.18	0.76
1:A:46:SER:H	1:A:51:LEU:HD13	1.49	0.76
1:A:1086:TYR:HE2	1:A:1090:ARG:HE	1.33	0.76
1:A:1930:GLU:OE1	1:A:1987:ARG:NH1	2.18	0.76
1:A:2809:PHE:HB3	1:A:2859:GLN:NE2	1.99	0.76
1:B:16:GLN:O	1:B:20:SER:CB	2.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:942:LEU:HD22	1:B:2783:ILE:HG21	1.67	0.76
1:A:805:LEU:CD2	1:A:3125:ARG:HH11	1.99	0.76
1:A:1081:ALA:O	1:A:1085:ILE:HG12	1.86	0.76
1:A:3057:ALA:HB1	1:A:3062:LEU:HD11	1.67	0.76
1:B:1987:ARG:O	1:B:1990:PHE:N	2.18	0.76
1:A:890:LYS:HG3	1:A:891:ARG:HD3	1.66	0.76
1:A:2253:TYR:CE2	1:A:2287:PRO:HB3	2.19	0.76
1:B:2473:MSE:O	1:B:2476:ILE:HG12	1.85	0.76
1:B:3019:ILE:HG23	1:B:3021:SER:H	1.51	0.76
1:A:1966:LEU:HD22	1:A:1991:PRO:HB3	1.66	0.76
1:B:1594:SER:O	1:B:1598:ASN:HB2	1.85	0.76
1:B:2147:ALA:HB1	1:B:2151:ILE:HD12	1.67	0.76
1:B:2281:MSE:HE2	1:B:2322:VAL:HA	1.66	0.76
1:B:2883:SER:O	1:B:2886:GLN:HG3	1.84	0.76
1:A:971:ARG:HG3	1:A:972:LEU:H	1.50	0.76
1:A:2397:CYS:O	1:A:2401:VAL:HB	1.86	0.76
1:B:891:ARG:HE	1:B:894:PHE:CB	1.99	0.76
1:B:3479:THR:O	1:B:3483:MSE:HB2	1.86	0.76
1:A:385:TYR:CD1	1:A:420:VAL:HG13	2.18	0.76
1:A:638:GLN:HE22	1:A:669:LEU:HB2	1.51	0.76
1:A:3243:ILE:HD13	1:A:3262:LEU:HD22	1.65	0.76
1:B:185:HIS:H	1:B:186:PRO:HD2	1.49	0.76
1:B:1178:ARG:HB3	1:B:1179:PRO:HD3	1.68	0.76
1:B:2453:GLU:O	1:B:2457:PRO:HD3	1.85	0.76
1:A:1655:ILE:HD13	1:A:1681:ASP:HB3	1.68	0.76
1:A:2364:LEU:O	1:A:2368:THR:OG1	2.03	0.76
1:B:576:VAL:HG13	1:B:601:TRP:HE3	1.51	0.76
1:B:1138:ILE:HG21	1:B:1150:LYS:HE2	1.68	0.76
1:B:2891:ARG:HH22	1:B:3884:LYS:CD	1.88	0.76
1:B:3629:ARG:HH22	1:B:3638:LYS:NZ	1.84	0.76
1:A:3019:ILE:HG23	1:A:3021:SER:H	1.49	0.76
1:B:138:PHE:HD2	1:B:173:LYS:HE3	1.51	0.76
1:B:904:VAL:O	1:B:906:PHE:N	2.18	0.76
1:B:1091:GLU:HG2	1:B:1137:ILE:HG21	1.68	0.76
1:A:1700:THR:HA	1:A:1703:THR:HB	1.67	0.76
1:A:2313:LYS:HA	1:A:2316:TYR:CE2	2.21	0.76
1:B:1036:PHE:HA	1:B:1055:ASN:HD21	1.50	0.76
1:B:1070:PRO:HD3	1:B:1075:ARG:HD2	1.67	0.76
1:B:3534:ILE:HG12	1:B:3704:GLN:NE2	1.99	0.76
1:A:143:LEU:H	1:A:143:LEU:HD12	1.51	0.75
1:A:891:ARG:HG3	1:A:894:PHE:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1007:VAL:O	1:A:1011:GLU:CB	2.33	0.75
1:A:1060:PHE:HA	1:A:1063:LEU:HD12	1.68	0.75
1:A:3176:MSE:HE2	1:A:3251:ASN:ND2	2.01	0.75
1:A:926:THR:O	1:A:930:ALA:HB3	1.85	0.75
1:A:661:PRO:HG2	1:A:733:LEU:HA	1.67	0.75
1:A:3487:ILE:HG21	1:A:3495:PHE:HB2	1.67	0.75
1:B:2062:ALA:HB1	1:B:2066:PHE:HE2	1.52	0.75
1:B:2542:LEU:HB2	1:B:2546:TYR:HE2	1.51	0.75
1:B:3520:GLU:OE1	1:B:3524:ASN:ND2	2.19	0.75
1:B:3872:ARG:O	1:B:3876:SER:OG	2.00	0.75
1:B:3989:ARG:HH21	1:B:4100:GLU:CG	1.99	0.75
1:A:2183:HIS:CE1	1:A:2237:ILE:HG21	2.21	0.75
1:A:3487:ILE:HD11	1:A:3498:TRP:HH2	1.51	0.75
1:B:19:LEU:O	1:B:23:ASP:CB	2.33	0.75
1:B:608:PRO:HG2	1:B:1798:LEU:HG	1.68	0.75
1:B:3284:SER:CB	1:B:3287:ARG:HH21	1.99	0.75
1:A:1637:SER:O	1:A:1640:GLU:N	2.19	0.75
1:A:1751:GLU:HG2	1:A:1870:LYS:HE2	1.68	0.75
1:A:3305:SER:HA	1:A:3308:ASP:HB3	1.68	0.75
1:A:1118:GLU:HG3	1:A:3743:HIS:HE1	1.51	0.75
1:A:1587:VAL:HB	1:A:1643:MSE:HE2	1.68	0.75
1:A:2449:VAL:HA	1:A:2452:ARG:HD2	1.67	0.75
1:A:3979:LEU:HA	1:A:3981:TYR:HB3	1.67	0.75
1:B:153:PHE:HB2	1:B:157:TYR:HE2	1.52	0.75
1:B:1039:TRP:HZ2	1:B:1049:GLN:HA	1.52	0.75
1:B:1356:TRP:CZ2	1:B:1409:SER:HB3	2.22	0.75
1:B:1992:VAL:O	1:B:1996:VAL:HG22	1.85	0.75
1:B:3414:MSE:SE	1:B:3450:MSE:SE	3.04	0.75
1:A:3269:ARG:NH1	1:A:3312:VAL:HG12	2.02	0.75
1:B:2458:VAL:HA	1:B:2461:PHE:CE2	2.22	0.75
1:B:2887:PRO:HG3	1:B:2921:LEU:HD13	1.68	0.75
1:B:3243:ILE:HG21	1:B:3262:LEU:HD22	1.68	0.75
1:A:2363:CYS:O	1:A:2367:VAL:HG12	1.87	0.75
1:B:1086:TYR:CD2	1:B:1090:ARG:HG2	2.22	0.75
1:B:3144:PHE:CD1	1:B:3160:LEU:HD11	2.21	0.75
1:B:3491:PRO:HB3	1:B:3711:PRO:HB3	1.69	0.75
1:A:2300:PHE:CZ	1:A:2341:LEU:HB2	2.22	0.74
1:A:2372:PRO:HB2	1:A:2374:LEU:HD13	1.68	0.74
1:B:253:LEU:HD21	1:B:297:LEU:HA	1.68	0.74
1:B:353:ASP:O	1:B:1859:ASN:ND2	2.19	0.74
1:B:2806:LYS:HD3	1:B:2855:VAL:HG13	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3583:LEU:HD11	1:A:3733:ARG:HB3	1.66	0.74
1:B:385:TYR:HE1	1:B:421:LEU:HD23	1.52	0.74
1:B:3012:GLU:HB2	1:B:3050:LYS:HZ1	1.51	0.74
1:B:971:ARG:HG3	1:B:972:LEU:H	1.52	0.74
1:B:1217:VAL:HG13	1:B:1274:ARG:HH12	1.50	0.74
1:B:1977:ILE:O	1:B:1979:GLU:N	2.17	0.74
1:B:2253:TYR:CZ	1:B:2287:PRO:HB3	2.22	0.74
1:B:2311:ARG:HG3	1:B:2363:CYS:HB2	1.70	0.74
1:A:766:ALA:O	1:A:768:VAL:N	2.17	0.74
1:A:1010:LEU:HD13	1:A:1028:PHE:HE1	1.51	0.74
1:A:3974:MSE:HB3	1:A:3976:GLU:H	1.52	0.74
1:B:714:VAL:HG12	1:B:734:LEU:HD11	1.69	0.74
1:B:978:GLN:O	1:B:981:ARG:HG2	1.88	0.74
1:B:4021:LEU:HD22	1:B:4028:ILE:HD12	1.68	0.74
1:A:2960:GLU:OE2	1:A:3289:ARG:NH1	2.19	0.74
1:B:616:LYS:HB3	1:B:617:PRO:HD2	1.68	0.74
1:B:1221:ILE:HG13	1:B:1274:ARG:HH11	1.53	0.74
1:B:3314:SER:HA	1:B:3315:TYR:HB3	1.68	0.74
1:B:3447:VAL:HG12	1:B:3468:LEU:HD22	1.69	0.74
1:A:1976:LEU:HD11	1:A:2031:LEU:HB3	1.69	0.74
1:B:2810:SER:HA	1:B:2813:PHE:CE2	2.23	0.74
1:B:3503:VAL:HG11	1:B:3535:ILE:HB	1.70	0.74
1:A:242:PRO:HB3	1:A:282:PHE:CD1	2.22	0.74
1:A:3323:PHE:O	1:A:3326:GLN:N	2.19	0.74
1:A:2549:LYS:NZ	1:A:2554:PHE:HA	2.02	0.74
1:B:793:LEU:HG	1:B:796:LEU:HD12	1.68	0.74
1:B:1012:ALA:O	1:B:1015:ASP:HB3	1.87	0.74
1:B:3397:GLN:OE1	1:B:3397:GLN:N	2.19	0.74
1:B:3459:ASN:O	1:B:3462:ARG:HG2	1.87	0.74
1:B:4071:ALA:O	1:B:4075:ARG:CB	2.35	0.74
1:B:4084:SER:O	1:B:4088:ASN:N	2.21	0.74
1:A:3575:LEU:O	1:A:3577:GLN:N	2.21	0.74
1:A:3762:GLN:NE2	1:A:3763:ARG:HH11	1.85	0.74
1:B:2260:PHE:CD1	1:B:2274:ILE:HG22	2.23	0.74
1:B:4089:ILE:HB	1:B:4090:ARG:NH2	2.02	0.74
1:A:273:ARG:HD2	1:A:314:SER:HB3	1.69	0.74
1:A:726:LEU:HA	1:A:729:CYS:SG	2.28	0.74
1:A:940:PHE:CE2	1:A:2576:MSE:SE	2.91	0.74
1:A:2274:ILE:O	1:A:2277:LEU:N	2.21	0.74
1:A:2404:ARG:HG2	1:A:2408:MSE:HE3	1.68	0.74
1:A:2877:SER:O	1:A:2879:GLY:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:968:VAL:HG23	1:B:971:ARG:HD3	1.70	0.74
1:B:1871:MSE:HA	1:B:1874:TYR:HB2	1.70	0.74
1:B:2379:MSE:HE1	1:B:2404:ARG:NH1	2.03	0.74
1:B:3110:PHE:O	1:B:3114:TYR:HD1	1.69	0.74
1:A:432:THR:HG23	1:A:475:LEU:HD13	1.70	0.73
1:A:3034:PRO:HG2	1:A:3037:GLN:HB2	1.69	0.73
1:B:2068:ARG:O	1:B:2070:GLU:N	2.20	0.73
1:B:2253:TYR:CE2	1:B:2287:PRO:HB3	2.23	0.73
1:B:2379:MSE:SE	1:B:2404:ARG:HD3	2.38	0.73
1:B:3928:PHE:HD2	1:B:3962:ARG:HH21	1.35	0.73
1:A:1132:ASP:HA	1:A:1135:CYS:SG	2.28	0.73
1:A:3176:MSE:HE1	1:A:3179:TRP:HE3	1.54	0.73
1:B:1073:PHE:CE2	1:B:3745:GLU:HA	2.23	0.73
1:B:1985:LYS:HD2	1:B:2037:SER:HB3	1.69	0.73
1:B:2507:ILE:HA	1:B:2510:LEU:HD12	1.69	0.73
1:A:760:LEU:HD13	1:A:802:THR:OG1	1.88	0.73
1:A:2142:ILE:HA	1:A:2145:PHE:HD2	1.51	0.73
1:A:2222:HIS:O	1:A:2225:HIS:N	2.16	0.73
1:B:886:TRP:HD1	1:B:889:GLU:H	1.35	0.73
1:B:1342:MSE:HE2	1:B:1398:VAL:HG12	1.70	0.73
1:B:3493:TRP:HE3	1:B:3713:PRO:HB3	1.53	0.73
1:B:363:ILE:O	1:B:367:GLY:N	2.18	0.73
1:A:2872:ASP:O	1:A:2913:LYS:NZ	2.21	0.73
1:B:2404:ARG:NH1	1:B:2412:TYR:CZ	2.56	0.73
1:B:2917:PRO:HA	1:B:2920:VAL:HG12	1.70	0.73
1:B:3432:SER:HB2	1:B:3435:ASP:HB2	1.69	0.73
1:A:2253:TYR:HB2	1:A:2291:GLN:HG2	1.70	0.73
1:A:4066:LEU:HG	1:A:4075:ARG:HA	1.71	0.73
1:B:174:VAL:O	1:B:178:LEU:HG	1.88	0.73
1:B:1142:HIS:O	1:B:1144:SER:N	2.20	0.73
1:B:2851:PHE:HA	1:B:2854:PHE:CD2	2.24	0.73
1:B:3323:PHE:O	1:B:3326:GLN:HG2	1.88	0.73
1:A:170:VAL:HG23	1:A:173:LYS:HD3	1.71	0.73
1:A:1115:HIS:O	1:A:1119:LYS:N	2.22	0.73
1:A:2883:SER:O	1:A:2886:GLN:HG3	1.87	0.73
1:B:629:PHE:CZ	1:B:666:PHE:HD1	2.07	0.73
1:B:989:MSE:HE2	1:B:1031:ARG:HH12	1.54	0.73
1:B:2004:TYR:CD1	1:B:2054:TYR:HB3	2.23	0.73
1:B:3167:ARG:HG3	1:B:3167:ARG:NH1	2.02	0.73
1:B:4010:SER:O	1:B:4015:ASN:N	2.21	0.73
1:A:70:ARG:HH22	1:A:117:LYS:HE3	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:GLU:OE2	1:A:1798:LEU:HB3	1.89	0.73
1:A:4010:SER:O	1:A:4015:ASN:N	2.22	0.73
1:B:153:PHE:HB2	1:B:157:TYR:CE2	2.24	0.73
1:B:1070:PRO:HB2	1:B:1073:PHE:CZ	2.24	0.73
1:B:2027:SER:HB2	1:B:2030:TYR:OH	1.87	0.73
1:B:2321:GLU:OE2	1:B:2325:LEU:HD22	1.89	0.73
1:B:3944:HIS:HA	1:B:4016:PHE:HZ	1.53	0.73
1:A:1984:LEU:O	1:A:1988:TYR:HB3	1.89	0.73
1:A:2571:ASP:O	1:A:2789:SER:OG	2.06	0.73
1:A:3167:ARG:O	1:A:3186:ARG:NH2	2.22	0.73
1:B:1014:LEU:HB2	1:B:1078:ALA:HB1	1.71	0.73
1:B:1890:HIS:HB3	1:B:1937:ARG:HA	1.69	0.73
1:A:19:LEU:O	1:A:23:ASP:HB2	1.89	0.73
1:A:1009:LEU:O	1:A:1012:ALA:N	2.22	0.73
1:A:1890:HIS:HB2	1:A:1937:ARG:HD2	1.71	0.73
1:A:2157:PHE:CE1	1:A:2203:THR:HB	2.23	0.73
1:A:2925:GLU:HB3	1:A:3121:LEU:HD11	1.70	0.73
1:B:730:LEU:HA	1:B:733:LEU:HD12	1.71	0.73
1:A:609:ALA:O	1:A:613:HIS:ND1	2.20	0.72
1:A:3048:LYS:HD3	1:A:3061:LEU:HD23	1.71	0.72
1:B:1651:LYS:O	1:B:1655:ILE:HD12	1.89	0.72
1:B:2918:PRO:HA	1:B:2921:LEU:HG	1.70	0.72
1:A:253:LEU:HD11	1:A:297:LEU:HB3	1.71	0.72
1:A:1087:ARG:HD3	1:A:1134:LEU:HD22	1.71	0.72
1:A:1374:GLN:O	1:A:1378:GLU:N	2.21	0.72
1:A:3276:TRP:HB3	1:A:3280:TYR:CZ	2.24	0.72
1:B:398:THR:HG22	1:B:1865:THR:HG21	1.70	0.72
1:B:535:LEU:HD22	1:B:626:LEU:HG	1.72	0.72
1:B:990:GLN:HA	1:B:993:HIS:CD2	2.24	0.72
1:B:2896:ALA:HA	1:B:2899:ARG:NH2	2.04	0.72
1:B:3876:SER:HB3	1:B:4127:TRP:O	1.87	0.72
1:A:1070:PRO:HG3	1:A:1075:ARG:HB2	1.70	0.72
1:A:1743:MSE:SE	1:A:1880:MSE:SE	3.07	0.72
1:B:471:LYS:HA	1:B:1553:PHE:HE2	1.53	0.72
1:B:1349:LEU:HD21	1:B:1359:LEU:HB2	1.70	0.72
1:B:1886:LYS:NZ	1:B:1948:ALA:HB2	2.05	0.72
1:B:2222:HIS:O	1:B:2225:HIS:N	2.19	0.72
1:A:978:GLN:O	1:A:981:ARG:HG2	1.89	0.72
1:A:2311:ARG:HG3	1:A:2363:CYS:HB2	1.69	0.72
1:A:3284:SER:HA	1:A:3287:ARG:HE	1.55	0.72
1:B:526:ASP:HB2	1:B:529:ASP:OD2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:967:PRO:HA	1:B:970:LEU:HD23	1.69	0.72
1:B:1014:LEU:HA	1:B:1025:LEU:HD13	1.69	0.72
1:B:1115:HIS:O	1:B:1119:LYS:N	2.22	0.72
1:A:1456:LYS:HA	1:A:1459:HIS:HD2	1.53	0.72
1:A:4082:ARG:HG3	1:A:4091:ALA:CB	2.19	0.72
1:A:1456:LYS:HA	1:A:1459:HIS:CD2	2.23	0.72
1:A:2260:PHE:O	1:A:2262:GLY:N	2.22	0.72
1:A:2542:LEU:HB2	1:A:2546:TYR:CE2	2.25	0.72
1:A:3045:ILE:O	1:A:3048:LYS:HB3	1.89	0.72
1:A:3130:GLN:HG3	1:A:3178:ILE:HG12	1.72	0.72
1:B:2860:ASP:HB3	1:B:2868:LEU:HD22	1.72	0.72
1:A:737:PRO:HA	1:A:740:ILE:HD12	1.70	0.72
1:A:1871:MSE:HA	1:A:1874:TYR:HB2	1.71	0.72
1:A:2193:ILE:HA	1:A:2196:TRP:CZ2	2.24	0.72
1:B:3583:LEU:O	1:B:3587:ASP:HB2	1.88	0.72
1:A:349:ILE:HG12	1:A:364:ARG:HD2	1.72	0.72
1:A:434:VAL:HA	1:A:437:HIS:CE1	2.24	0.72
1:A:3015:SER:O	1:A:3019:ILE:N	2.21	0.72
1:B:1802:TYR:O	1:B:1805:PHE:N	2.22	0.72
1:B:2177:ASN:HD22	1:B:2182:ILE:HG22	1.54	0.72
1:B:2563:LEU:O	1:B:2567:SER:OG	2.06	0.72
1:A:2300:PHE:HZ	1:A:2341:LEU:HB2	1.54	0.72
1:A:3592:VAL:HG22	1:A:3609:MSE:SE	2.40	0.72
1:B:868:LYS:HA	1:B:871:LEU:HD12	1.71	0.72
1:B:2837:LEU:HA	1:B:2840:PHE:CD2	2.25	0.72
1:B:3579:SER:OG	1:B:3580:ASN:N	2.22	0.72
1:A:358:GLU:HA	1:A:1858:LEU:HD22	1.71	0.72
1:A:871:LEU:HD11	1:A:3122:HIS:HE1	1.55	0.72
1:A:3256:MSE:HE2	1:A:3282:ARG:NH1	2.03	0.72
1:A:3432:SER:HB2	1:A:3435:ASP:HB2	1.72	0.72
1:B:649:PHE:CE1	1:B:657:SER:HB2	2.25	0.72
1:B:721:TYR:CE1	1:B:1121:LEU:HD21	2.24	0.72
1:B:1090:ARG:HA	1:B:1090:ARG:NE	2.05	0.72
1:B:2313:LYS:HG3	1:B:2314:GLU:OE2	1.90	0.72
1:B:2961:ALA:HB1	1:B:3002:TYR:HD1	1.54	0.72
1:A:1870:LYS:HG2	1:A:1871:MSE:HE2	1.71	0.71
1:B:2239:LYS:HG3	1:B:2279:ILE:HG23	1.72	0.71
1:B:3326:GLN:OE1	1:B:3393:GLU:HA	1.90	0.71
1:A:1306:ILE:HG12	1:A:1334:LYS:HB3	1.72	0.71
1:A:2323:LEU:HD21	1:A:2345:VAL:HG21	1.72	0.71
1:A:2423:VAL:HG13	1:A:2424:MSE:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2433:LYS:HG3	1:A:2436:LEU:HD12	1.70	0.71
1:B:932:GLU:HG3	1:B:2636:UNK:HA	1.72	0.71
1:B:1032:CYS:HB3	1:B:1036:PHE:CZ	2.25	0.71
1:B:3593:ARG:HA	1:B:3596:LEU:HD12	1.72	0.71
1:A:2312:TYR:HE2	1:A:2314:GLU:HG2	1.55	0.71
1:A:2453:GLU:O	1:A:2457:PRO:HD3	1.90	0.71
1:A:3503:VAL:HG11	1:A:3535:ILE:HB	1.72	0.71
1:A:3982:SER:O	1:A:3986:HIS:ND1	2.22	0.71
1:B:602:MSE:SE	1:B:726:LEU:HD13	2.40	0.71
1:B:1349:LEU:HA	1:B:1353:PRO:HD2	1.71	0.71
1:B:1761:LEU:HD22	1:B:1860:GLU:HB3	1.73	0.71
1:B:2806:LYS:NZ	1:B:2858:ILE:HG21	2.06	0.71
1:A:922:SER:HB3	1:A:926:THR:HG23	1.72	0.71
1:A:967:PRO:HA	1:A:970:LEU:HD23	1.70	0.71
1:A:1977:ILE:O	1:A:1979:GLU:N	2.18	0.71
1:A:2070:GLU:HA	1:A:2071:GLN:HB2	1.72	0.71
1:A:616:LYS:HB3	1:A:617:PRO:HD2	1.72	0.71
1:A:2281:MSE:HE2	1:A:2322:VAL:HA	1.73	0.71
1:A:2435:CYS:O	1:A:2439:ILE:HB	1.89	0.71
1:A:3677:PRO:O	1:A:3679:ASN:N	2.22	0.71
1:B:491:CYS:SG	1:B:492:SER:N	2.62	0.71
1:B:560:LEU:HB3	1:B:616:LYS:HE2	1.73	0.71
1:B:1762:MSE:HB2	1:B:1896:ILE:HG12	1.72	0.71
1:B:2883:SER:O	1:B:2885:GLN:N	2.22	0.71
1:B:2884:LEU:HB3	1:B:3895:GLU:HG3	1.73	0.71
1:B:2970:LYS:NZ	1:B:2974:GLU:OE2	2.22	0.71
1:B:3130:GLN:HG3	1:B:3178:ILE:HG12	1.73	0.71
1:A:2535:THR:O	1:A:2538:ARG:HG2	1.89	0.71
1:B:204:LEU:HD22	1:B:219:VAL:HG12	1.71	0.71
1:B:553:VAL:HB	1:B:637:LYS:HZ2	1.56	0.71
1:B:808:GLU:HG2	1:B:852:ARG:NH2	2.06	0.71
1:B:3471:ILE:HG23	1:B:3472:ILE:HG13	1.73	0.71
1:A:1256:TRP:O	1:A:1260:LEU:N	2.17	0.71
1:A:3257:LYS:HA	1:A:3260:LYS:HD2	1.73	0.71
1:A:3427:GLU:HB3	1:A:3439:LEU:HD22	1.71	0.71
1:A:3835:PRO:HA	1:A:3871:PHE:HE1	1.54	0.71
1:A:3875:GLU:HG2	1:A:4127:TRP:HB3	1.72	0.71
1:B:1702:LEU:O	1:B:1706:SER:HB3	1.91	0.71
1:B:3587:ASP:HB3	1:B:4022:LYS:HZ2	1.55	0.71
1:A:396:PHE:CZ	1:A:397:LEU:HG	2.25	0.71
1:A:705:ALA:HB1	1:A:1385:ASN:ND2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:PHE:HA	1:A:773:LEU:HD13	1.73	0.71
1:A:1609:ALA:HB3	1:A:1806:ARG:NH2	2.06	0.71
1:A:1745:LYS:O	1:A:1747:LEU:N	2.24	0.71
1:A:2538:ARG:HH12	1:A:2566:THR:H	1.36	0.71
1:B:2043:PHE:O	1:B:2047:THR:OG1	2.09	0.71
1:B:2200:ALA:HA	1:B:2203:THR:HG22	1.73	0.71
1:A:446:PHE:O	1:A:533:HIS:NE2	2.24	0.71
1:A:621:SER:HB3	1:A:659:ARG:NH2	2.06	0.71
1:A:2152:ASN:HB3	1:A:2153:THR:HA	1.72	0.71
1:B:454:GLN:HG3	1:B:533:HIS:HE1	1.54	0.71
1:B:1798:LEU:O	1:B:1802:TYR:HB2	1.90	0.71
1:B:3464:LYS:HG3	1:B:3468:LEU:HD11	1.72	0.71
1:A:1681:ASP:OD1	1:A:1682:THR:N	2.23	0.71
1:A:2478:MSE:O	1:A:2482:ASP:CB	2.37	0.71
1:A:3813:LYS:HG2	1:A:3926:ASN:HA	1.73	0.71
1:B:560:LEU:HD11	1:B:645:TRP:CZ2	2.26	0.71
1:B:1267:TYR:O	1:B:1271:ILE:HG13	1.90	0.71
1:B:1464:LEU:HB2	1:B:1468:LEU:HD12	1.73	0.71
1:B:3155:VAL:HG21	1:B:3159:ARG:NH2	2.06	0.71
1:B:3875:GLU:O	1:B:3879:PRO:HD3	1.91	0.71
1:A:660:LEU:O	1:A:664:SER:OG	2.08	0.70
1:A:941:MSE:HB2	1:A:958:MSE:HE3	1.73	0.70
1:A:1880:MSE:SE	1:A:1881:TYR:HD1	2.23	0.70
1:A:2260:PHE:CZ	1:A:2303:LEU:HA	2.25	0.70
1:A:2312:TYR:CE2	1:A:2314:GLU:HG2	2.25	0.70
1:B:514:VAL:HG12	1:B:604:PRO:HG3	1.73	0.70
1:B:982:GLN:O	1:B:986:PRO:HD3	1.91	0.70
1:B:1060:PHE:HA	1:B:1063:LEU:HD12	1.72	0.70
1:B:1138:ILE:HD13	1:B:1150:LYS:HE2	1.73	0.70
1:B:2161:ALA:HA	1:B:2164:TRP:CD1	2.25	0.70
1:B:2227:LYS:HG3	1:B:2232:ARG:HA	1.73	0.70
1:B:3772:ASN:ND2	1:B:3788:LEU:H	1.89	0.70
1:B:4048:LYS:O	1:B:4051:LEU:HB3	1.91	0.70
1:A:1655:ILE:HG23	1:A:1677:SER:HB3	1.73	0.70
1:A:3498:TRP:HD1	1:A:3502:MSE:HB2	1.56	0.70
1:B:575:ILE:HD11	1:B:579:LEU:HD22	1.70	0.70
1:B:913:ARG:NE	1:B:916:GLU:OE2	2.24	0.70
1:B:3340:ALA:O	1:B:3343:SER:N	2.24	0.70
1:A:1403:MSE:HE1	1:A:1419:LEU:HD21	1.73	0.70
1:A:2137:ILE:HB	1:A:2170:GLN:HE22	1.55	0.70
1:A:3989:ARG:HH21	1:A:4100:GLU:HB3	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2086:ASP:HB3	1:B:2090:ARG:HH21	1.55	0.70
1:B:2896:ALA:HA	1:B:2899:ARG:HH21	1.57	0.70
1:B:1472:SER:HA	1:B:1476:HIS:CD2	2.26	0.70
1:B:2161:ALA:HB1	1:B:2211:LEU:HD13	1.71	0.70
1:B:2260:PHE:O	1:B:2262:GLY:N	2.24	0.70
1:A:527:TYR:OH	1:A:619:ASP:N	2.22	0.70
1:A:1593:VAL:O	1:A:1597:LEU:HB2	1.91	0.70
1:A:3044:MSE:O	1:A:3047:SER:OG	2.04	0.70
1:B:989:MSE:HE2	1:B:1031:ARG:NH1	2.07	0.70
1:B:1155:ARG:NH2	1:B:1230:GLY:O	2.24	0.70
1:B:2379:MSE:CE	1:B:2404:ARG:HD3	2.20	0.70
1:A:446:PHE:HD1	1:A:446:PHE:H	1.36	0.70
1:B:1017:ILE:HB	1:B:1025:LEU:HB2	1.74	0.70
1:B:2412:TYR:HD2	1:B:2416:LYS:HE3	1.57	0.70
1:B:2936:TYR:HD2	1:B:3979:LEU:HD21	1.56	0.70
1:A:2030:TYR:HD1	1:A:2031:LEU:HG	1.57	0.70
1:A:3917:ILE:HG22	1:A:3918:LEU:HD22	1.72	0.70
1:B:1416:GLU:O	1:B:1420:ARG:HB2	1.91	0.70
1:B:2535:THR:O	1:B:2538:ARG:HG2	1.92	0.70
1:B:2945:SER:O	1:B:2949:THR:HG23	1.90	0.70
1:A:3592:VAL:HA	1:A:3609:MSE:SE	2.41	0.70
1:B:848:LEU:HA	1:B:851:ILE:HD12	1.74	0.70
1:B:2112:GLN:OE1	1:B:2120:ARG:NH2	2.24	0.70
1:A:1592:MSE:O	1:A:1594:SER:N	2.24	0.70
1:B:932:GLU:HB3	1:B:2794:LEU:HD13	1.73	0.70
1:B:1445:ARG:HA	1:B:1448:LEU:HD12	1.74	0.70
1:B:2260:PHE:CE2	1:B:2303:LEU:HA	2.27	0.70
1:B:3498:TRP:HE1	1:B:3502:MSE:SE	2.25	0.70
1:B:3638:LYS:HA	1:B:3641:ASP:OD2	1.91	0.70
1:B:3772:ASN:HB2	1:B:3787:GLN:CG	2.19	0.70
1:A:527:TYR:CE1	1:A:615:ALA:HB1	2.26	0.70
1:A:1014:LEU:HD13	1:A:1078:ALA:HB1	1.72	0.70
1:A:1918:LEU:HD22	1:A:1958:GLU:HB3	1.72	0.70
1:A:2239:LYS:HE2	1:A:2240:THR:HG22	1.73	0.70
1:B:19:LEU:HD22	1:B:30:ALA:HB1	1.72	0.70
1:B:177:LEU:O	1:B:180:LEU:N	2.25	0.70
1:B:970:LEU:CD2	1:B:1031:ARG:HH21	2.05	0.70
1:A:114:VAL:HG11	1:A:130:LEU:HD11	1.72	0.69
1:A:990:GLN:HA	1:A:993:HIS:HD2	1.57	0.69
1:A:1249:SER:O	1:A:1253:THR:HB	1.92	0.69
1:A:1877:LEU:O	1:A:1920:TYR:OH	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2781:PRO:HB2	1:A:2786:LYS:HD3	1.73	0.69
1:A:3687:MSE:O	1:A:3689:ASP:N	2.25	0.69
1:B:629:PHE:HZ	1:B:666:PHE:HD1	1.40	0.69
1:B:1985:LYS:O	1:B:1989:ASN:ND2	2.22	0.69
1:B:2253:TYR:HB2	1:B:2291:GLN:CG	2.22	0.69
1:B:2452:ARG:HA	1:B:2455:LEU:HD12	1.73	0.69
1:B:3119:VAL:HG21	1:B:3899:ALA:HB1	1.74	0.69
1:B:3284:SER:HB2	1:B:3287:ARG:NH2	2.04	0.69
1:B:3910:LEU:O	1:B:3914:SER:OG	2.07	0.69
1:A:1378:GLU:OE2	1:A:1382:ILE:HG23	1.92	0.69
1:A:1469:PRO:HA	1:A:1472:SER:HB3	1.74	0.69
1:B:436:GLU:OE2	1:B:475:LEU:HD12	1.93	0.69
1:B:743:LEU:O	1:B:746:ARG:NH1	2.25	0.69
1:A:718:MSE:HE3	1:A:731:THR:HG22	1.74	0.69
1:A:718:MSE:HE2	1:A:754:MSE:HG3	1.75	0.69
1:A:1996:VAL:HG23	1:A:1997:PRO:CD	2.22	0.69
1:A:2071:GLN:HA	1:A:2074:PRO:HG2	1.73	0.69
1:A:2958:LEU:O	1:A:3289:ARG:NH2	2.25	0.69
1:B:660:LEU:O	1:B:663:ILE:HG13	1.91	0.69
1:A:1583:MSE:SE	1:A:1643:MSE:SE	3.09	0.69
1:A:1651:LYS:O	1:A:1655:ILE:HD12	1.92	0.69
1:A:2038:GLU:OE1	1:A:2076:VAL:HG22	1.93	0.69
1:A:2153:THR:OG1	1:A:2154:GLU:N	2.18	0.69
1:B:512:GLY:HA2	1:B:602:MSE:HG3	1.73	0.69
1:B:629:PHE:CE2	1:B:668:LYS:HB2	2.28	0.69
1:B:1087:ARG:HD2	1:B:1137:ILE:HD11	1.74	0.69
1:B:1412:LYS:HA	1:B:1415:LEU:HD12	1.72	0.69
1:B:3979:LEU:HA	1:B:3981:TYR:HB3	1.74	0.69
1:A:334:HIS:CE1	1:A:338:LEU:HD21	2.28	0.69
1:B:86:LEU:HD23	1:B:89:LEU:HD12	1.72	0.69
1:B:272:LEU:HB3	1:B:319:PHE:CZ	2.27	0.69
1:B:722:LYS:HB3	1:B:727:ALA:HA	1.74	0.69
1:B:2813:PHE:CD2	1:B:2859:GLN:HG3	2.25	0.69
1:A:2216:LEU:HD22	1:A:2249:LEU:HD11	1.73	0.69
1:A:2452:ARG:HE	1:A:2498:ILE:HD11	1.57	0.69
1:A:3810:VAL:HG23	1:A:3815:LEU:HD11	1.74	0.69
1:B:170:VAL:HG23	1:B:173:LYS:HZ1	1.57	0.69
1:B:2413:PHE:CE1	1:B:2442:MSE:HB3	2.27	0.69
1:B:2430:GLU:HG3	1:B:2465:PRO:HB3	1.74	0.69
1:B:2884:LEU:C	1:B:2887:PRO:HD2	2.13	0.69
1:B:3574:ALA:HA	1:B:3577:GLN:HB2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:723:ASP:HB2	1:A:726:LEU:HD12	1.74	0.69
1:A:1445:ARG:HA	1:A:1448:LEU:HD12	1.74	0.69
1:A:2304:VAL:HG13	1:A:2348:GLN:HE21	1.57	0.69
1:A:2329:TYR:O	1:A:2333:ARG:N	2.25	0.69
1:A:2464:HIS:H	1:A:2465:PRO:HD3	1.56	0.69
1:B:65:LEU:O	1:B:69:VAL:HB	1.93	0.69
1:B:2196:TRP:HE1	1:B:2200:ALA:HB2	1.58	0.69
1:B:3654:MSE:SE	1:B:3659:PHE:HB3	2.42	0.69
1:A:19:LEU:HB2	1:A:34:LEU:HD13	1.75	0.69
1:A:368:LEU:HD23	1:A:372:PRO:HG2	1.74	0.69
1:A:462:VAL:HG11	1:A:540:MSE:SE	2.42	0.69
1:A:602:MSE:SE	1:A:726:LEU:HD13	2.42	0.69
1:A:1018:VAL:HB	1:A:1074:LYS:HA	1.75	0.69
1:A:1059:LEU:HD22	1:A:1063:LEU:HD11	1.75	0.69
1:A:1507:CYS:SG	1:A:1508:LYS:N	2.65	0.69
1:A:1685:ASP:HB2	1:A:1727:ARG:NH2	2.06	0.69
1:A:2125:TRP:O	1:A:2127:LYS:N	2.25	0.69
1:A:3974:MSE:HB3	1:A:3976:GLU:HB3	1.74	0.69
1:B:135:LEU:HD13	1:B:170:VAL:HB	1.75	0.69
1:B:414:LEU:HD23	1:B:460:ALA:HB1	1.74	0.69
1:B:434:VAL:HA	1:B:437:HIS:CE1	2.28	0.69
1:B:2351:GLN:O	1:B:2355:THR:OG1	2.07	0.69
1:B:2555:LEU:O	1:B:2558:ALA:HB3	1.92	0.69
1:A:870:LEU:HA	1:A:873:VAL:HB	1.75	0.69
1:A:2187:VAL:O	1:A:2190:VAL:HG22	1.93	0.69
1:A:4121:TRP:HD1	1:A:4123:GLY:H	1.40	0.69
1:B:1086:TYR:HD2	1:B:1090:ARG:HG2	1.58	0.69
1:B:1955:VAL:HG12	1:B:1957:ASN:HB2	1.75	0.69
1:A:934:LEU:HD21	1:A:962:TYR:CE1	2.28	0.69
1:A:1569:THR:O	1:A:1573:LYS:HB2	1.93	0.69
1:A:3048:LYS:NZ	1:A:3089:LEU:HB3	2.08	0.69
1:B:917:LEU:HD21	1:B:934:LEU:HD13	1.74	0.69
1:B:935:HIS:NE2	1:B:987:LEU:HG	2.09	0.69
1:B:1799:GLU:HA	1:B:1802:TYR:HB2	1.74	0.69
1:B:3587:ASP:HB3	1:B:4022:LYS:NZ	2.08	0.69
1:B:3772:ASN:ND2	1:B:3788:LEU:O	2.26	0.69
1:A:970:LEU:HD22	1:A:1031:ARG:HH21	1.58	0.68
1:A:977:ASP:HB3	1:A:981:ARG:N	2.08	0.68
1:A:1763:THR:OG1	1:A:1864:ASP:OD2	2.09	0.68
1:A:3114:TYR:CE1	1:A:3128:LYS:HD3	2.28	0.68
1:B:999:LYS:HD3	1:B:1000:LYS:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:LEU:CD1	1:B:1127:CYS:HB3	2.23	0.68
1:B:2074:PRO:O	1:B:2077:HIS:N	2.26	0.68
1:B:2283:ASN:O	1:B:2287:PRO:HD3	1.92	0.68
1:B:2365:ASN:HD21	1:B:2382:VAL:HG11	1.58	0.68
1:B:2951:GLN:OE1	1:B:2972:TYR:OH	2.10	0.68
1:A:3312:VAL:O	1:A:3314:SER:N	2.26	0.68
1:B:745:VAL:HG11	1:B:776:TRP:CZ2	2.27	0.68
1:B:3631:LYS:HB3	1:B:3682:GLU:HA	1.76	0.68
1:A:1722:PHE:CD2	1:A:1754:GLN:HG2	2.29	0.68
1:B:345:PHE:HD2	1:B:367:GLY:HA3	1.59	0.68
1:B:398:THR:O	1:B:401:ASP:N	2.24	0.68
1:B:3435:ASP:O	1:B:3439:LEU:CB	2.41	0.68
1:A:2177:ASN:HD22	1:A:2182:ILE:HG22	1.57	0.68
1:A:2283:ASN:ND2	1:A:2284:ASP:OD2	2.26	0.68
1:B:1165:LEU:HA	1:B:1168:LEU:HD12	1.76	0.68
1:B:2242:VAL:HG12	1:B:2246:LYS:HE3	1.75	0.68
1:A:1917:LYS:HE2	1:A:1955:VAL:HB	1.74	0.68
1:A:1937:ARG:O	1:A:1941:HIS:HB2	1.92	0.68
1:A:2271:SER:HB2	1:A:2314:GLU:HG3	1.75	0.68
1:A:2900:LEU:HB2	1:A:2910:VAL:HA	1.75	0.68
1:A:3955:VAL:HG23	1:A:4121:TRP:CE3	2.28	0.68
1:B:721:TYR:HE1	1:B:1121:LEU:HD21	1.58	0.68
1:B:1989:ASN:HB3	1:B:2040:MSE:HB3	1.75	0.68
1:B:2274:ILE:O	1:B:2277:LEU:N	2.27	0.68
1:B:4113:ASP:HB3	1:B:4116:ILE:HG13	1.75	0.68
1:A:793:LEU:HG	1:A:796:LEU:HD12	1.75	0.68
1:A:940:PHE:CZ	1:A:2791:ILE:HG21	2.28	0.68
1:A:1382:ILE:HB	1:A:1386:ILE:HD11	1.75	0.68
1:B:1682:THR:OG1	1:B:1727:ARG:NH2	2.27	0.68
1:B:1981:LEU:O	1:B:1984:LEU:HG	1.93	0.68
1:B:2423:VAL:HG23	1:B:2426:HIS:HB3	1.76	0.68
1:A:543:SER:C	1:A:545:LEU:H	1.95	0.68
1:A:3583:LEU:O	1:A:3587:ASP:HB2	1.92	0.68
1:A:3816:LEU:HD11	1:A:3883:LEU:HG	1.74	0.68
1:A:4066:LEU:HD23	1:A:4075:ARG:HG3	1.76	0.68
1:B:669:LEU:HD22	1:B:672:ILE:HG13	1.75	0.68
1:B:926:THR:O	1:B:930:ALA:HB3	1.92	0.68
1:B:1403:MSE:HE1	1:B:1419:LEU:HD21	1.75	0.68
1:B:1643:MSE:HA	1:B:1646:LEU:HG	1.74	0.68
1:B:3084:GLN:OE1	1:B:3084:GLN:N	2.21	0.68
1:B:3339:ASN:O	1:B:3341:LEU:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3737:ARG:NH1	1:B:3739:ILE:HD11	2.07	0.68
1:B:3840:LYS:HE2	1:B:4122:GLU:HB3	1.76	0.68
1:A:484:HIS:CD2	1:A:616:LYS:HE3	2.29	0.68
1:A:580:ASP:OD1	1:A:581:LEU:N	2.26	0.68
1:A:2094:MSE:HE1	1:A:2143:ARG:HA	1.75	0.68
1:A:2936:TYR:HB3	1:A:3979:LEU:HD11	1.75	0.68
1:B:2477:LEU:HB3	1:B:2506:LEU:HD21	1.76	0.68
1:B:3031:TRP:CE3	1:B:3034:PRO:HD3	2.29	0.68
1:B:3981:TYR:OH	1:B:4101:GLU:HB3	1.93	0.68
1:A:1437:TYR:CD2	1:A:1444:ASP:OD2	2.47	0.68
1:A:3830:SER:HB2	1:A:3835:PRO:HG3	1.76	0.68
1:B:574:LYS:O	1:B:577:GLU:HG2	1.94	0.68
1:B:2260:PHE:CZ	1:B:2303:LEU:HA	2.29	0.68
1:A:265:TYR:O	1:A:268:PRO:HD2	1.94	0.68
1:A:882:SER:HB2	1:A:3892:THR:H	1.59	0.68
1:A:1802:TYR:O	1:A:1805:PHE:N	2.27	0.68
1:A:3049:LEU:HD13	1:A:3184:THR:HB	1.76	0.68
1:A:3790:THR:HG22	1:A:3791:TYR:H	1.58	0.68
1:A:3883:LEU:HD13	1:A:3970:LEU:HD13	1.74	0.68
1:B:655:LEU:O	1:B:659:ARG:HG2	1.93	0.68
1:B:1886:LYS:HZ3	1:B:1948:ALA:HB2	1.59	0.68
1:B:2316:TYR:CG	1:B:2317:ALA:N	2.62	0.68
1:A:260:ILE:HG22	1:A:264:ARG:HH12	1.59	0.67
1:A:1080:LEU:HD12	1:A:1081:ALA:N	2.08	0.67
1:B:411:PRO:HA	1:B:414:LEU:HB3	1.75	0.67
1:B:968:VAL:HA	1:B:971:ARG:HG2	1.76	0.67
1:B:2258:GLU:OE2	1:B:2295:GLN:NE2	2.22	0.67
1:B:2542:LEU:HB2	1:B:2546:TYR:CE2	2.29	0.67
1:B:3620:PRO:HA	1:B:3625:LEU:HD12	1.76	0.67
1:A:172:GLU:O	1:A:176:GLU:HG3	1.94	0.67
1:A:990:GLN:HA	1:A:993:HIS:CD2	2.29	0.67
1:A:1403:MSE:HA	1:A:1406:LEU:HB2	1.76	0.67
1:B:899:ARG:NH1	1:B:2570:PRO:HB2	2.00	0.67
1:B:2390:HIS:HD1	1:B:2397:CYS:HG	1.41	0.67
1:B:2440:TYR:HD2	1:B:2476:ILE:HD12	1.58	0.67
1:B:4063:GLU:HA	1:B:4066:LEU:HD22	1.75	0.67
1:A:323:VAL:O	1:A:327:VAL:HB	1.94	0.67
1:A:367:GLY:C	1:A:369:PHE:H	1.98	0.67
1:B:797:ASP:HA	1:B:800:LEU:HD12	1.77	0.67
1:B:2776:ARG:NH1	1:B:2776:ARG:HA	2.08	0.67
1:A:376:ILE:HG13	1:A:381:VAL:CG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:848:LEU:HA	1:A:851:ILE:HD12	1.76	0.67
1:A:909:VAL:HG13	1:A:913:ARG:NH1	2.09	0.67
1:A:3788:LEU:HG	1:A:3789:ARG:H	1.58	0.67
1:B:429:GLU:OE1	1:B:429:GLU:N	2.27	0.67
1:B:554:ASN:CG	1:B:637:LYS:HZ3	1.98	0.67
1:B:3761:ASP:HB3	1:B:3942:PHE:HB2	1.76	0.67
1:B:3797:THR:HG22	1:B:3800:LEU:HG	1.77	0.67
1:A:411:PRO:HA	1:A:414:LEU:HB3	1.76	0.67
1:A:571:SER:HB2	1:A:606:SER:H	1.59	0.67
1:A:1163:LEU:HD13	1:A:1256:TRP:CD1	2.29	0.67
1:A:1723:PRO:C	1:A:1725:GLN:H	1.97	0.67
1:A:2239:LYS:HG3	1:A:2279:ILE:CG2	2.23	0.67
1:A:3174:ASP:OD2	1:A:3782:SER:HB3	1.94	0.67
1:A:3858:MSE:HB3	1:A:4119:ARG:NH2	2.10	0.67
1:A:3964:THR:O	1:A:3967:PHE:HD1	1.78	0.67
1:B:446:PHE:HD1	1:B:446:PHE:H	1.42	0.67
1:B:969:LEU:O	1:B:973:ALA:CB	2.42	0.67
1:A:756:PHE:O	1:A:760:LEU:HG	1.95	0.67
1:A:2538:ARG:HH11	1:A:2565:MSE:HB3	1.59	0.67
1:A:3959:MSE:HE1	1:A:4124:TRP:CD2	2.30	0.67
1:B:550:PHE:HZ	1:B:632:GLU:HG2	1.57	0.67
1:B:1504:ASP:HA	1:B:1507:CYS:HB3	1.76	0.67
1:A:144:MSE:HE2	1:A:184:VAL:HG11	1.76	0.67
1:A:767:GLU:HG2	1:A:846:ILE:O	1.94	0.67
1:A:2477:LEU:HD13	1:A:2505:VAL:HG11	1.76	0.67
1:A:3974:MSE:HA	1:A:3975:LYS:HB3	1.75	0.67
1:B:1643:MSE:O	1:B:1646:LEU:N	2.27	0.67
1:A:1017:ILE:HD12	1:A:1025:LEU:HD22	1.77	0.67
1:A:1744:LYS:HA	1:A:1880:MSE:HE3	1.75	0.67
1:A:2223:VAL:HB	1:A:2238:ILE:HD12	1.76	0.67
1:A:2851:PHE:HA	1:A:2854:PHE:CD2	2.29	0.67
1:A:3344:GLU:O	1:A:3348:LEU:HG	1.94	0.67
1:A:3505:LEU:HD12	1:A:3509:ASP:HB3	1.76	0.67
1:A:3583:LEU:HD11	1:A:3733:ARG:HD3	1.77	0.67
1:A:4066:LEU:HD11	1:A:4078:VAL:HG11	1.77	0.67
1:B:406:ARG:O	1:B:409:GLN:N	2.26	0.67
1:B:463:LYS:O	1:B:466:LEU:HB3	1.94	0.67
1:B:865:GLN:OE1	1:B:865:GLN:N	2.25	0.67
1:B:2140:LEU:HA	1:B:2143:ARG:HD2	1.75	0.67
1:B:2420:PHE:HE1	1:B:2436:LEU:HD22	1.59	0.67
1:B:3812:LEU:HG	1:B:3813:LYS:N	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:LYS:O	1:A:177:LEU:HG	1.94	0.67
1:A:709:LYS:NZ	1:A:1328:GLU:OE2	2.24	0.67
1:A:2253:TYR:CZ	1:A:2287:PRO:HB3	2.30	0.67
1:B:327:VAL:HG22	1:B:338:LEU:HD22	1.77	0.67
1:B:985:GLU:HG3	1:B:1031:ARG:NH2	2.03	0.67
1:B:1145:LEU:HB2	1:B:1149:LYS:NZ	2.10	0.67
1:B:1344:PHE:O	1:B:1348:LEU:CB	2.33	0.67
1:B:1483:LEU:HA	1:B:1500:LEU:HD21	1.75	0.67
1:B:1963:GLN:HE21	1:B:1995:GLU:HG2	1.60	0.67
1:B:2001:LYS:HA	1:B:2054:TYR:CE2	2.29	0.67
1:B:2440:TYR:CD2	1:B:2476:ILE:HD12	2.29	0.67
1:B:2854:PHE:CG	1:B:2882:ALA:HB2	2.30	0.67
1:A:2033:ASP:O	1:A:2037:SER:OG	2.13	0.67
1:A:2224:PHE:CZ	1:A:2276:LEU:HD22	2.30	0.67
1:A:2806:LYS:HA	1:A:2809:PHE:CD2	2.30	0.67
1:A:3879:PRO:HB2	1:A:3966:GLN:OE1	1.94	0.67
1:B:794:PRO:HA	1:B:869:ASN:HB3	1.77	0.67
1:B:1491:ILE:O	1:B:1497:ARG:NH1	2.27	0.67
1:B:1751:GLU:OE2	1:B:1884:LEU:HD13	1.95	0.67
1:B:1894:SER:O	1:B:1897:ASN:N	2.21	0.67
1:B:2507:ILE:HG12	1:B:2548:PRO:HB2	1.77	0.67
1:A:76:ILE:HG13	1:A:77:GLU:H	1.59	0.66
1:A:646:VAL:HG22	1:A:660:LEU:HD23	1.76	0.66
1:A:1292:LYS:NZ	1:A:1361:LYS:NZ	2.44	0.66
1:A:1464:LEU:HB2	1:A:1468:LEU:HD12	1.75	0.66
1:A:1880:MSE:SE	1:A:1881:TYR:CD1	2.98	0.66
1:A:2066:PHE:HB3	1:A:2067:ARG:HG2	1.76	0.66
1:A:2913:LYS:O	1:A:2916:LEU:N	2.22	0.66
1:B:3007:GLU:O	1:B:3010:SER:OG	2.13	0.66
1:A:610:ALA:HA	1:A:613:HIS:CE1	2.29	0.66
1:A:1036:PHE:CD1	1:A:1059:LEU:HD11	2.30	0.66
1:A:1214:GLU:HG2	1:A:1218:SER:HB3	1.77	0.66
1:A:2256:ILE:HD13	1:A:2276:LEU:HD11	1.77	0.66
1:A:3072:GLU:O	1:A:3076:ALA:HB2	1.96	0.66
1:A:3471:ILE:HG23	1:A:3472:ILE:HG13	1.75	0.66
1:B:980:THR:CG2	1:B:984:TYR:HE2	2.09	0.66
1:B:2323:LEU:HG	1:B:2341:LEU:HD21	1.77	0.66
1:B:3414:MSE:HE1	1:B:3450:MSE:HA	1.76	0.66
1:A:931:CYS:SG	1:A:932:GLU:N	2.68	0.66
1:A:3019:ILE:HG13	1:A:3020:ASP:H	1.60	0.66
1:A:3467:ARG:HG3	1:A:3471:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:266:ALA:CB	1:B:308:LEU:HG	2.25	0.66
1:B:659:ARG:HH22	1:B:662:LEU:CG	2.05	0.66
1:B:1103:ALA:O	1:B:1106:ILE:HG12	1.95	0.66
1:B:2009:LYS:HG2	1:B:2011:ALA:H	1.58	0.66
1:B:3042:PRO:HA	1:B:3045:ILE:HG12	1.76	0.66
1:A:1548:GLY:O	1:A:1552:HIS:ND1	2.28	0.66
1:A:2121:ASP:HA	1:A:2126:MSE:HB3	1.77	0.66
1:A:3040:TYR:HA	1:A:3043:TYR:CD2	2.31	0.66
1:A:3061:LEU:HD21	1:A:3089:LEU:HD13	1.76	0.66
1:A:3182:ILE:HB	1:A:3186:ARG:HH11	1.58	0.66
1:A:3579:SER:OG	1:A:3580:ASN:N	2.25	0.66
1:A:3725:ARG:HH12	1:A:3737:ARG:HH22	1.43	0.66
1:A:3875:GLU:O	1:A:3879:PRO:HD3	1.95	0.66
1:B:776:TRP:CZ2	1:B:780:ILE:HD12	2.30	0.66
1:B:1113:LEU:HD13	1:B:1162:SER:HB3	1.76	0.66
1:B:1266:CYS:O	1:B:1269:THR:OG1	2.12	0.66
1:B:1364:CYS:HB3	1:B:1367:HIS:ND1	2.10	0.66
1:B:1952:ILE:HG23	1:B:1953:CYS:O	1.96	0.66
1:B:3606:ILE:HD13	1:B:3609:MSE:HE3	1.76	0.66
1:B:3820:MSE:HA	1:B:3882:LEU:HD22	1.77	0.66
1:A:886:TRP:HZ3	1:A:954:GLY:O	1.78	0.66
1:A:1702:LEU:O	1:A:1706:SER:HB3	1.95	0.66
1:A:2891:ARG:HD3	1:A:3972:LEU:HD22	1.77	0.66
1:A:3008:TRP:O	1:A:3011:LEU:N	2.22	0.66
1:A:3582:GLU:HB2	1:A:3674:SER:OG	1.95	0.66
1:B:638:GLN:OE1	1:B:638:GLN:N	2.25	0.66
1:B:3160:LEU:O	1:B:3163:THR:HG22	1.96	0.66
1:A:657:SER:O	1:A:661:PRO:HD3	1.95	0.66
1:B:69:VAL:O	1:B:73:LEU:HG	1.96	0.66
1:B:362:ALA:HB2	1:B:409:GLN:HE21	1.61	0.66
1:B:2137:ILE:O	1:B:2141:ASN:N	2.27	0.66
1:B:2167:PRO:HB2	1:B:2171:LEU:HD22	1.77	0.66
1:B:3721:GLY:O	1:B:3741:ARG:HB2	1.95	0.66
1:B:3842:TRP:CH2	1:B:3846:MSE:HE2	2.30	0.66
1:A:514:VAL:HA	1:A:604:PRO:HG3	1.78	0.66
1:A:1170:LYS:HA	1:A:1173:LEU:HD12	1.77	0.66
1:A:2886:GLN:HG3	1:A:2887:PRO:HD3	1.77	0.66
1:A:3493:TRP:CE3	1:A:3496:ILE:HG13	2.30	0.66
1:B:793:LEU:HA	1:B:796:LEU:HG	1.78	0.66
1:B:4002:MSE:SE	1:B:4048:LYS:HE3	2.46	0.66
1:A:175:TYR:HE1	1:A:200:PHE:HB3	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:260:ILE:HG23	1:A:263:LYS:HD2	1.75	0.66
1:A:612:LEU:O	1:A:615:ALA:HB3	1.96	0.66
1:A:1306:ILE:CG1	1:A:1334:LYS:HB3	2.26	0.66
1:A:1649:LEU:HA	1:A:1652:ILE:HD12	1.76	0.66
1:A:2254:ARG:HG3	1:A:2255:LEU:H	1.61	0.66
1:A:2549:LYS:HZ2	1:A:2554:PHE:HA	1.59	0.66
1:A:3323:PHE:O	1:A:3326:GLN:HG3	1.96	0.66
1:A:3703:GLY:O	1:A:3706:ASP:HB2	1.95	0.66
1:B:178:LEU:HB3	1:B:197:PHE:CZ	2.30	0.66
1:B:649:PHE:CZ	1:B:657:SER:HB2	2.31	0.66
1:B:2462:VAL:HG21	1:B:2473:MSE:SE	2.46	0.66
1:B:3446:VAL:HA	1:B:3449:LYS:HD2	1.78	0.66
1:B:3486:GLU:HG3	1:B:3487:ILE:N	2.09	0.66
1:B:3725:ARG:HH12	1:B:3737:ARG:HH22	1.31	0.66
1:A:680:ILE:HG12	1:A:701:TYR:CD1	2.30	0.66
1:A:3125:ARG:O	1:A:3128:LYS:N	2.29	0.66
1:A:3414:MSE:HG3	1:A:3456:LEU:HD21	1.76	0.66
1:A:3460:GLU:HA	1:A:3463:LEU:HD12	1.78	0.66
1:A:3619:ASP:HA	1:A:3622:ALA:HB3	1.76	0.66
1:B:186:PRO:HB2	1:B:189:MSE:HB3	1.78	0.66
1:B:294:PHE:HZ	1:B:319:PHE:CD2	2.14	0.66
1:B:617:PRO:O	1:B:620:PHE:N	2.29	0.66
1:B:1993:GLU:O	1:B:1997:PRO:HD2	1.96	0.66
1:B:2155:GLU:O	1:B:2157:PHE:N	2.29	0.66
1:B:2190:VAL:HG21	1:B:2241:LEU:HD13	1.76	0.66
1:B:2408:MSE:HE2	1:B:2408:MSE:HA	1.78	0.66
1:B:3887:PHE:HE2	1:B:3904:PHE:HD2	1.43	0.66
1:B:3944:HIS:CE1	1:B:4020:MSE:HE2	2.30	0.66
1:A:971:ARG:HB3	1:A:1027:ASP:OD2	1.96	0.65
1:A:2382:VAL:HG21	1:A:2404:ARG:HG3	1.79	0.65
1:B:403:GLY:C	1:B:405:ASP:H	1.98	0.65
1:B:1081:ALA:O	1:B:1085:ILE:HG12	1.95	0.65
1:B:3262:LEU:HD21	1:B:3274:VAL:HG12	1.78	0.65
1:A:446:PHE:CD1	1:A:447:PRO:HD3	2.30	0.65
1:A:2011:ALA:O	1:A:2013:GLU:N	2.28	0.65
1:A:2023:SER:HA	1:A:2070:GLU:OE2	1.96	0.65
1:A:2183:HIS:O	1:A:2187:VAL:CB	2.30	0.65
1:A:2962:ARG:HE	1:A:3254:LEU:HA	1.60	0.65
1:A:3042:PRO:HA	1:A:3045:ILE:HG12	1.77	0.65
1:A:3287:ARG:HH11	1:A:3331:GLY:HA3	1.61	0.65
1:B:717:LYS:NZ	1:B:1121:LEU:HD11	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1681:ASP:OD1	1:B:1682:THR:N	2.29	0.65
1:B:2478:MSE:O	1:B:2482:ASP:CB	2.44	0.65
1:B:3589:SER:O	1:B:3593:ARG:CB	2.44	0.65
1:A:135:LEU:HD13	1:A:173:LYS:HB3	1.78	0.65
1:A:1802:TYR:HA	1:A:1805:PHE:HD2	1.61	0.65
1:A:2794:LEU:HA	1:A:2797:VAL:HG22	1.78	0.65
1:A:3847:SER:HA	1:A:3857:LEU:HD13	1.77	0.65
1:B:253:LEU:HD11	1:B:297:LEU:HB3	1.78	0.65
1:B:393:LYS:HA	1:B:396:PHE:CD1	2.31	0.65
1:B:649:PHE:O	1:B:652:GLU:N	2.15	0.65
1:B:2224:PHE:CZ	1:B:2276:LEU:HD22	2.32	0.65
1:B:2571:ASP:O	1:B:2789:SER:OG	2.14	0.65
1:B:2935:GLU:HG3	1:B:2936:TYR:H	1.62	0.65
1:B:3630:ARG:HG2	1:B:3686:TRP:NE1	2.11	0.65
1:B:3998:LEU:O	1:B:4001:THR:OG1	2.13	0.65
1:A:939:MSE:HE2	1:A:942:LEU:HD13	1.79	0.65
1:A:1101:PHE:O	1:A:1104:LEU:HB2	1.97	0.65
1:A:1934:LEU:CD1	1:A:1937:ARG:H	2.09	0.65
1:A:3429:GLU:OE1	1:A:4046:TYR:OH	2.13	0.65
1:A:3946:PHE:CE2	1:A:4048:LYS:HD2	2.31	0.65
1:B:1349:LEU:HD23	1:B:1353:PRO:HG2	1.78	0.65
1:B:1816:ARG:HB3	1:B:1819:PHE:HE1	1.60	0.65
1:A:1121:LEU:HG	1:A:1122:GLY:N	2.11	0.65
1:A:1292:LYS:NZ	1:A:1361:LYS:HZ1	1.95	0.65
1:A:1423:ILE:HG13	1:A:1424:THR:H	1.60	0.65
1:A:1718:ILE:HG23	1:A:1750:LEU:HD21	1.78	0.65
1:A:2034:SER:O	1:A:2036:LEU:N	2.29	0.65
1:A:2182:ILE:O	1:A:2186:VAL:HG12	1.97	0.65
1:A:2253:TYR:HD1	1:A:2256:ILE:HD12	1.59	0.65
1:A:3480:LEU:O	1:A:3484:THR:OG1	2.14	0.65
1:B:385:TYR:O	1:B:389:ILE:HB	1.95	0.65
1:B:753:GLN:O	1:B:757:LYS:CB	2.43	0.65
1:B:1101:PHE:CG	1:B:1138:ILE:HG12	2.32	0.65
1:A:1737:ASN:C	1:A:1739:TYR:H	2.00	0.65
1:A:2049:VAL:O	1:A:2052:TYR:N	2.28	0.65
1:A:2507:ILE:HA	1:A:2510:LEU:HD12	1.78	0.65
1:A:2886:GLN:OE1	1:A:2921:LEU:HB2	1.97	0.65
1:B:173:LYS:O	1:B:177:LEU:HG	1.97	0.65
1:B:471:LYS:HA	1:B:1553:PHE:CE2	2.31	0.65
1:B:736:LEU:O	1:B:740:ILE:HG13	1.97	0.65
1:B:938:VAL:HG21	1:B:962:TYR:CZ	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3677:PRO:O	1:B:3679:ASN:N	2.28	0.65
1:A:393:LYS:HA	1:A:396:PHE:CD1	2.32	0.65
1:A:759:GLY:HA2	1:A:763:THR:OG1	1.95	0.65
1:A:895:ALA:HB3	1:A:904:VAL:HG21	1.78	0.65
1:A:1346:THR:HG21	1:A:1401:ASN:HB3	1.79	0.65
1:A:2049:VAL:HA	1:A:2052:TYR:CD2	2.30	0.65
1:A:2058:ASP:HB3	1:A:2059:PRO:HD3	1.78	0.65
1:A:2240:THR:HG21	2:K:113:UNK:N	2.12	0.65
1:A:2274:ILE:HA	1:A:2277:LEU:HG	1.76	0.65
1:A:2304:VAL:HG13	1:A:2348:GLN:NE2	2.10	0.65
1:A:3630:ARG:HA	1:A:3686:TRP:CD1	2.32	0.65
1:A:4004:VAL:O	1:A:4008:GLU:HB2	1.97	0.65
1:B:1651:LYS:O	1:B:1654:GLN:HB2	1.97	0.65
1:B:2062:ALA:HB1	1:B:2066:PHE:CE2	2.30	0.65
1:B:2937:ASP:OD1	1:B:3979:LEU:HD12	1.96	0.65
1:A:660:LEU:O	1:A:663:ILE:HG13	1.96	0.65
1:A:757:LYS:HA	1:A:760:LEU:HD12	1.78	0.65
1:A:1039:TRP:HZ2	1:A:1049:GLN:HA	1.62	0.65
1:A:1107:TYR:O	1:A:1111:LEU:N	2.29	0.65
1:A:1138:ILE:HG21	1:A:1150:LYS:HE2	1.78	0.65
1:A:1373:VAL:HB	1:A:1418:HIS:CE1	2.31	0.65
1:A:1437:TYR:CE2	1:A:1444:ASP:OD2	2.48	0.65
1:A:2854:PHE:CG	1:A:2882:ALA:HB2	2.32	0.65
1:B:220:LEU:O	1:B:224:LEU:HG	1.97	0.65
1:B:1249:SER:O	1:B:1253:THR:CB	2.44	0.65
1:B:3141:PHE:HE1	1:B:3193:ILE:HG13	1.62	0.65
1:B:3705:TYR:HE2	1:B:3708:ARG:NH1	1.95	0.65
1:B:4099:SER:O	1:B:4103:GLN:NE2	2.27	0.65
1:A:909:VAL:HG13	1:A:913:ARG:HH11	1.62	0.65
1:A:940:PHE:HE2	1:A:2576:MSE:SE	2.29	0.65
1:A:1949:ILE:HD12	1:A:1952:ILE:HG21	1.79	0.65
1:A:2375:ALA:O	1:A:2379:MSE:HB2	1.96	0.65
1:A:3416:LEU:HD13	1:A:3446:VAL:HG12	1.78	0.65
1:B:2070:GLU:HB2	1:B:2072:ARG:N	2.12	0.65
1:B:2270:ASN:O	1:B:2274:ILE:HG23	1.95	0.65
1:B:2412:TYR:CD2	1:B:2416:LYS:HE3	2.31	0.65
1:B:3152:SER:HB2	1:B:3155:VAL:HB	1.77	0.65
1:B:3257:LYS:HA	1:B:3260:LYS:HD2	1.77	0.65
1:B:3704:GLN:HE21	1:B:3796:MSE:SE	2.30	0.65
1:B:3722:PHE:CD1	1:B:3740:ILE:HA	2.32	0.65
1:A:3176:MSE:HE1	1:A:3179:TRP:CE3	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3843:LEU:HD22	1:A:3858:MSE:HE1	1.79	0.65
1:B:416:SER:O	1:B:420:VAL:HB	1.97	0.65
1:B:2196:TRP:CG	1:B:2199:LEU:HD11	2.31	0.65
1:B:2413:PHE:CD2	1:B:2445:LYS:HG3	2.32	0.65
1:B:2883:SER:HA	1:B:2886:GLN:HE21	1.62	0.65
1:B:2936:TYR:CE1	1:B:2949:THR:HG21	2.32	0.65
1:B:3499:ILE:HG13	1:B:3531:TYR:CZ	2.32	0.65
1:B:3594:ALA:HB1	1:B:4028:ILE:HG21	1.79	0.65
1:B:4062:ASP:O	1:B:4066:LEU:HD13	1.97	0.65
1:A:757:LYS:HA	1:A:760:LEU:CD1	2.27	0.64
1:A:3141:PHE:HE1	1:A:3193:ILE:HG13	1.62	0.64
1:B:217:LEU:HD22	1:B:264:ARG:HG3	1.79	0.64
1:B:446:PHE:CZ	1:B:530:LEU:HB3	2.32	0.64
1:B:1094:SER:N	1:B:1097:GLU:OE2	2.28	0.64
1:B:1163:LEU:HD22	1:B:1260:LEU:HD11	1.79	0.64
1:A:404:ASP:O	1:A:406:ARG:N	2.29	0.64
1:A:1145:LEU:HD13	1:A:1149:LYS:HD3	1.80	0.64
1:A:1915:LEU:HD12	1:A:1916:ILE:HG13	1.78	0.64
1:A:3011:LEU:HD12	1:A:3047:SER:HB3	1.79	0.64
1:A:3421:ASP:OD2	1:A:3467:ARG:HD3	1.97	0.64
1:B:172:GLU:O	1:B:176:GLU:HG3	1.97	0.64
1:B:1655:ILE:HG13	1:B:1677:SER:HA	1.79	0.64
1:B:2538:ARG:NH1	1:B:2562:LEU:O	2.30	0.64
1:B:2539:LEU:HA	1:B:2542:LEU:HD23	1.79	0.64
1:B:3015:SER:O	1:B:3019:ILE:N	2.28	0.64
1:B:3931:ALA:O	1:B:3935:GLY:CA	2.43	0.64
1:A:1889:VAL:HG22	1:A:1900:PHE:CD2	2.33	0.64
1:A:2412:TYR:CE1	1:A:2415:LEU:HD23	2.32	0.64
1:B:171:LEU:HD13	1:B:219:VAL:HG13	1.80	0.64
1:B:385:TYR:CE1	1:B:421:LEU:HD23	2.31	0.64
1:B:1909:ASN:O	1:B:1912:THR:HG23	1.98	0.64
1:A:183:GLU:HA	1:A:233:ASN:HD21	1.62	0.64
1:A:866:ILE:HB	1:A:3129:LEU:HD13	1.78	0.64
1:A:2094:MSE:HE2	1:A:2142:ILE:HG22	1.79	0.64
1:A:2452:ARG:HG2	1:A:2498:ILE:HD11	1.79	0.64
1:A:3048:LYS:HZ2	1:A:3089:LEU:HB3	1.63	0.64
1:A:3503:VAL:HG21	1:A:3535:ILE:O	1.97	0.64
1:B:710:PHE:O	1:B:714:VAL:HG23	1.96	0.64
1:B:1649:LEU:HA	1:B:1652:ILE:HD12	1.78	0.64
1:B:2999:LEU:HD12	1:B:3002:TYR:HE2	1.63	0.64
1:B:3496:ILE:O	1:B:3498:TRP:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4020:MSE:HE3	1:B:4027:TRP:NE1	2.13	0.64
1:A:1107:TYR:CE1	1:A:1111:LEU:HD13	2.33	0.64
1:A:1349:LEU:HD21	1:A:1359:LEU:HD13	1.78	0.64
1:A:2782:ASP:HA	1:A:2786:LYS:HB2	1.80	0.64
1:A:3046:ARG:HH22	1:A:3181:ASP:CG	1.99	0.64
1:A:3721:GLY:O	1:A:3741:ARG:HB2	1.97	0.64
1:B:111:CYS:HA	1:B:134:LEU:HD22	1.80	0.64
1:B:1279:LEU:HG	1:B:1292:LYS:NZ	2.13	0.64
1:B:3864:ARG:NH1	1:B:4115:ASN:OD1	2.30	0.64
1:A:512:GLY:HA3	1:A:726:LEU:HD22	1.79	0.64
1:A:743:LEU:HG	1:A:783:HIS:HE1	1.62	0.64
1:A:854:ARG:O	1:A:858:MSE:HB2	1.98	0.64
1:A:1269:THR:HG22	1:A:1275:THR:HG21	1.78	0.64
1:A:1649:LEU:HD12	1:A:1652:ILE:HD12	1.78	0.64
1:A:3998:LEU:O	1:A:4002:MSE:HG3	1.97	0.64
1:B:85:ILE:O	1:B:89:LEU:HG	1.97	0.64
1:B:177:LEU:HA	1:B:180:LEU:HB2	1.79	0.64
1:B:1039:TRP:CZ2	1:B:1049:GLN:HA	2.32	0.64
1:B:2467:THR:HB	1:B:2518:GLN:HE22	1.62	0.64
1:B:2850:PHE:HB2	1:B:2853:PRO:HG2	1.80	0.64
1:B:2870:SER:O	1:B:2872:ASP:N	2.30	0.64
1:B:3974:MSE:SE	1:B:3976:GLU:HB3	2.47	0.64
1:A:1165:LEU:HB3	1:A:1169:VAL:HG23	1.79	0.64
1:A:1345:THR:HG21	1:A:1368:LEU:HD13	1.78	0.64
1:A:1609:ALA:HB3	1:A:1806:ARG:HH22	1.61	0.64
1:A:1890:HIS:CE1	1:A:1941:HIS:HA	2.33	0.64
1:A:2307:MSE:HG2	1:A:2348:GLN:NE2	2.12	0.64
1:A:3425:ARG:NH2	1:A:4000:ASN:OD1	2.31	0.64
1:A:3589:SER:O	1:A:3593:ARG:CB	2.45	0.64
1:A:3676:PRO:O	1:A:3679:ASN:ND2	2.30	0.64
1:B:2276:LEU:HA	1:B:2279:ILE:HG12	1.80	0.64
1:B:2939:LEU:HD21	1:B:2994:TRP:CD2	2.33	0.64
1:A:720:GLN:HB3	1:A:1123:THR:HG21	1.78	0.64
1:A:1084:ASN:HD21	1:A:1131:ILE:HG22	1.63	0.64
1:A:2413:PHE:CE1	1:A:2442:MSE:HG2	2.33	0.64
1:A:2555:LEU:HD11	1:A:2803:ILE:HD11	1.79	0.64
1:A:3498:TRP:NE1	1:A:3502:MSE:SE	2.81	0.64
1:B:66:LEU:HD21	1:B:89:LEU:HD11	1.78	0.64
1:B:272:LEU:HB3	1:B:319:PHE:HZ	1.63	0.64
1:B:393:LYS:HA	1:B:396:PHE:HD1	1.62	0.64
1:B:1973:LYS:O	1:B:1974:ASN:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2423:VAL:HG13	1:B:2424:MSE:H	1.63	0.64
1:B:2433:LYS:NZ	1:B:2461:PHE:CZ	2.65	0.64
1:B:2555:LEU:HD12	1:B:2556:SER:H	1.62	0.64
1:B:3705:TYR:CE2	1:B:3708:ARG:NH1	2.66	0.64
1:A:884:VAL:HB	1:A:3892:THR:OG1	1.98	0.64
1:A:995:PHE:CD1	1:A:1003:SER:HA	2.33	0.64
1:A:1700:THR:O	1:A:1702:LEU:N	2.30	0.64
1:B:101:ALA:HB3	1:B:102:PRO:HD3	1.80	0.64
1:B:345:PHE:CD2	1:B:367:GLY:HA3	2.32	0.64
1:B:411:PRO:HG2	1:B:457:CYS:SG	2.37	0.64
1:B:1069:HIS:HB3	1:B:3741:ARG:CZ	2.28	0.64
1:B:1598:ASN:CG	1:B:1811:ARG:HG2	2.19	0.64
1:B:1696:LEU:HA	1:B:1700:THR:HG21	1.79	0.64
1:B:3282:ARG:NH1	1:B:3282:ARG:HB2	2.13	0.64
1:B:3816:LEU:O	1:B:3820:MSE:HB3	1.97	0.64
1:A:14:ARG:HB3	1:A:2359:LYS:HE2	1.79	0.64
1:A:771:ASN:O	1:A:773:LEU:N	2.30	0.64
1:A:2253:TYR:HA	1:A:2256:ILE:HB	1.80	0.64
1:A:3855:TYR:HB3	1:A:4074:PHE:CZ	2.32	0.64
1:B:207:GLN:O	1:B:212:VAL:HG12	1.98	0.64
1:B:909:VAL:O	1:B:913:ARG:HG2	1.98	0.64
1:B:1471:GLN:O	1:B:1475:LEU:HB3	1.98	0.64
1:B:2379:MSE:HE1	1:B:2404:ARG:HH11	1.60	0.64
1:A:66:LEU:HD21	1:A:89:LEU:HD11	1.80	0.63
1:A:1039:TRP:CZ2	1:A:1049:GLN:HA	2.33	0.63
1:A:1939:LEU:HD13	1:A:1986:ARG:HH21	1.62	0.63
1:A:2194:LEU:HD13	1:A:2244:CYS:HB3	1.79	0.63
1:A:2929:LEU:HG	1:A:3784:ARG:HG2	1.79	0.63
1:A:3110:PHE:O	1:A:3114:TYR:HD1	1.81	0.63
1:A:3788:LEU:HG	1:A:3789:ARG:N	2.13	0.63
1:B:2912:GLY:HA2	1:B:2915:ARG:HH21	1.64	0.63
1:B:3725:ARG:NH1	1:B:3737:ARG:NH2	2.38	0.63
1:A:493:LYS:HB3	1:A:494:PRO:HD2	1.80	0.63
1:A:1640:GLU:O	1:A:1644:ALA:CB	2.46	0.63
1:A:2866:ALA:O	1:A:2869:LEU:N	2.31	0.63
1:A:3781:CYS:HA	1:A:3786:LEU:HD12	1.78	0.63
1:A:3985:VAL:HG11	1:A:4101:GLU:HG2	1.79	0.63
1:B:139:ARG:HA	1:B:173:LYS:HD3	1.80	0.63
1:B:1970:LYS:HE2	1:B:2017:GLY:HA3	1.80	0.63
1:B:4038:TRP:CH2	1:B:4040:PRO:HB3	2.32	0.63
1:A:1259:LEU:HD11	1:A:1337:VAL:HA	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2352:HIS:HB3	1:A:2360:PHE:HB3	1.78	0.63
1:B:617:PRO:HB3	1:B:659:ARG:HG3	1.80	0.63
1:B:2171:LEU:HG	1:B:2177:ASN:HD21	1.63	0.63
1:B:3687:MSE:C	1:B:3689:ASP:H	1.99	0.63
1:A:132:ILE:HA	1:A:135:LEU:HD12	1.80	0.63
1:A:1981:LEU:HD21	1:A:2031:LEU:O	1.98	0.63
1:A:1982:ILE:HA	1:A:1985:LYS:HE2	1.80	0.63
1:A:2281:MSE:SE	1:A:2286:PRO:HB3	2.48	0.63
1:A:2404:ARG:NH1	1:A:2412:TYR:CZ	2.67	0.63
1:A:3192:LYS:HD2	1:A:3192:LYS:N	2.13	0.63
1:B:744:ASP:C	1:B:746:ARG:H	2.01	0.63
1:B:984:TYR:O	1:B:988:VAL:HG13	1.99	0.63
1:B:995:PHE:CD1	1:B:1003:SER:HA	2.33	0.63
1:B:1296:PHE:O	1:B:1299:GLU:N	2.28	0.63
1:B:2145:PHE:HD1	1:B:2188:GLU:HG2	1.62	0.63
1:B:2433:LYS:HG3	1:B:2436:LEU:HD12	1.79	0.63
1:B:2933:ILE:HG23	1:B:3979:LEU:HB2	1.80	0.63
1:B:3974:MSE:HA	1:B:3975:LYS:HB3	1.80	0.63
1:A:278:HIS:O	1:A:281:GLN:HB3	1.98	0.63
1:A:720:GLN:HG3	1:A:1121:LEU:HD22	1.81	0.63
1:A:904:VAL:O	1:A:906:PHE:N	2.32	0.63
1:A:1093:GLU:N	1:A:1097:GLU:OE2	2.22	0.63
1:A:1424:THR:O	1:A:1427:SER:N	2.28	0.63
1:A:1685:ASP:CB	1:A:1727:ARG:HH22	2.06	0.63
1:A:2936:TYR:CD1	1:A:2949:THR:HG21	2.33	0.63
1:B:473:PRO:HA	1:B:476:ARG:NH2	2.11	0.63
1:B:726:LEU:HD23	1:B:729:CYS:SG	2.38	0.63
1:B:1006:THR:HG22	1:B:1010:LEU:HG	1.81	0.63
1:B:2022:PRO:HB2	1:B:2072:ARG:HH21	1.62	0.63
1:B:2144:LEU:HB3	1:B:2148:LYS:HE3	1.80	0.63
1:B:2449:VAL:HA	1:B:2452:ARG:HD2	1.80	0.63
1:B:3155:VAL:HG23	1:B:3158:LYS:HD2	1.80	0.63
1:B:3630:ARG:HG2	1:B:3686:TRP:HE1	1.63	0.63
1:A:345:PHE:HD2	1:A:367:GLY:HA3	1.64	0.63
1:A:1070:PRO:HB2	1:A:1073:PHE:CE1	2.34	0.63
1:A:1729:PHE:CE2	1:A:1870:LYS:HG3	2.33	0.63
1:B:766:ALA:O	1:B:768:VAL:N	2.28	0.63
1:B:1251:GLN:O	1:B:1255:CYS:HB2	1.98	0.63
1:B:2788:SER:O	1:B:2791:ILE:HB	1.98	0.63
1:B:3763:ARG:NH2	1:B:4009:PRO:HG3	2.13	0.63
1:B:3834:ALA:HB1	1:B:3838:GLU:OE1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:ILE:HG22	1:A:257:ARG:HG3	1.80	0.63
1:A:414:LEU:HD23	1:A:460:ALA:HB1	1.80	0.63
1:A:988:VAL:O	1:A:992:ILE:HG23	1.99	0.63
1:A:3684:SER:OG	1:A:3685:PRO:HD3	1.98	0.63
1:B:942:LEU:HD11	1:B:991:LEU:HD11	1.80	0.63
1:B:1583:MSE:HE1	1:B:1640:GLU:OE2	1.98	0.63
1:B:1711:ARG:HG3	1:B:1712:ARG:N	2.13	0.63
1:B:3919:GLY:H	1:B:3946:PHE:H	1.47	0.63
1:A:1419:LEU:O	1:A:1421:GLU:N	2.31	0.63
1:A:1575:LEU:HD13	1:A:1604:SER:HB3	1.80	0.63
1:A:1952:ILE:HG12	1:A:1953:CYS:H	1.63	0.63
1:A:3816:LEU:HD13	1:A:3966:GLN:NE2	2.12	0.63
1:A:4050:LYS:HB3	1:A:4055:ASN:HD21	1.63	0.63
1:B:988:VAL:O	1:B:992:ILE:HG23	1.99	0.63
1:B:1100:VAL:O	1:B:1104:LEU:N	2.29	0.63
1:B:1279:LEU:HG	1:B:1292:LYS:HZ1	1.62	0.63
1:B:1306:ILE:HG12	1:B:1334:LYS:HB3	1.81	0.63
1:B:3167:ARG:HG2	1:B:3186:ARG:NE	2.14	0.63
1:B:3982:SER:O	1:B:3986:HIS:ND1	2.32	0.63
1:B:4088:ASN:OD1	1:B:4091:ALA:HB3	1.99	0.63
1:A:1887:ASP:OD1	1:A:1937:ARG:NH2	2.31	0.63
1:A:2256:ILE:HG21	1:A:2280:VAL:HG21	1.81	0.63
1:A:2327:LEU:O	1:A:2331:MSE:HG2	1.99	0.63
1:B:114:VAL:CG1	1:B:130:LEU:HD11	2.29	0.63
1:B:559:SER:O	1:B:563:LEU:HG	1.98	0.63
1:B:2226:PRO:O	1:B:2230:VAL:N	2.27	0.63
1:B:2799:GLN:HG3	1:B:2808:LEU:HD11	1.81	0.63
1:B:2936:TYR:HE1	1:B:2949:THR:HG21	1.64	0.63
1:B:3045:ILE:O	1:B:3048:LYS:HB2	1.99	0.63
1:B:4035:GLU:HG2	1:B:4038:TRP:CE3	2.34	0.63
1:A:31:GLY:O	1:A:34:LEU:HB3	1.98	0.62
1:A:649:PHE:O	1:A:651:TYR:N	2.32	0.62
1:A:802:THR:O	1:A:806:SER:OG	2.15	0.62
1:A:935:HIS:O	1:A:938:VAL:HB	1.99	0.62
1:A:999:LYS:HD3	1:A:1000:LYS:H	1.64	0.62
1:A:1029:CYS:HB3	1:A:1085:ILE:HG13	1.81	0.62
1:A:2379:MSE:SE	1:A:2408:MSE:SE	3.17	0.62
1:A:4048:LYS:O	1:A:4051:LEU:HB3	1.99	0.62
1:B:3250:ASN:OD1	1:B:3285:HIS:HB3	1.98	0.62
1:A:1745:LYS:C	1:A:1747:LEU:H	2.02	0.62
1:A:4056:PRO:HG2	1:A:4094:PRO:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:LYS:O	1:B:455:LEU:HG	1.99	0.62
1:B:585:ILE:HG22	1:B:586:GLN:H	1.64	0.62
1:B:1459:HIS:CE1	1:B:1510:LEU:HG	2.35	0.62
1:B:1604:SER:HB2	1:B:1632:TRP:HB3	1.80	0.62
1:B:2146:LEU:HA	1:B:2149:LEU:HG	1.80	0.62
1:B:3107:ILE:HA	1:B:3110:PHE:CE2	2.34	0.62
1:B:3778:ASP:OD2	1:B:3781:CYS:N	2.32	0.62
1:A:101:ALA:HB3	1:A:102:PRO:HD3	1.81	0.62
1:A:956:PRO:HB2	1:A:957:PRO:HD3	1.79	0.62
1:A:2147:ALA:HB1	1:A:2151:ILE:HD12	1.82	0.62
1:A:2378:PHE:CE1	1:A:2408:MSE:HE1	2.29	0.62
1:B:3592:VAL:HG13	1:B:3609:MSE:SE	2.50	0.62
1:B:4046:TYR:CZ	1:B:4049:ARG:NH2	2.68	0.62
1:A:252:VAL:HG11	1:A:265:TYR:HB2	1.81	0.62
1:A:2074:PRO:O	1:A:2077:HIS:N	2.32	0.62
1:A:2900:LEU:HD12	1:A:2905:LEU:HD21	1.80	0.62
1:A:3176:MSE:HE2	1:A:3251:ASN:HD22	1.64	0.62
1:A:3256:MSE:HE2	1:A:3282:ARG:HH12	1.62	0.62
1:A:3762:GLN:NE2	1:A:3763:ARG:NH1	2.46	0.62
1:A:3812:LEU:O	1:A:3816:LEU:CB	2.38	0.62
1:B:154:SER:OG	1:B:189:MSE:HG2	1.99	0.62
1:B:200:PHE:O	1:B:204:LEU:HG	1.98	0.62
1:B:508:HIS:HD2	1:B:725:LEU:HD13	1.65	0.62
1:B:891:ARG:CD	1:B:905:ILE:HG12	2.30	0.62
1:B:1637:SER:O	1:B:1640:GLU:N	2.32	0.62
1:B:2936:TYR:CD2	1:B:3979:LEU:HD21	2.33	0.62
1:B:2943:PHE:CD2	1:B:2944:THR:HG23	2.34	0.62
1:A:870:LEU:HD11	1:A:3125:ARG:HG3	1.80	0.62
1:A:2239:LYS:HD3	2:K:110:UNK:CB	2.30	0.62
1:A:2260:PHE:CD1	1:A:2274:ILE:HG22	2.35	0.62
1:A:2900:LEU:HB3	1:A:2905:LEU:HD11	1.80	0.62
1:A:3486:GLU:HG3	1:A:3487:ILE:H	1.65	0.62
1:B:1080:LEU:HD12	1:B:1081:ALA:N	2.14	0.62
1:B:1708:GLU:HB2	1:B:1709:GLU:OE2	2.00	0.62
1:B:2386:LEU:O	1:B:2390:HIS:HB2	2.00	0.62
1:B:3824:GLU:HB3	1:B:3829:LEU:HD11	1.81	0.62
1:A:245:SER:HA	1:A:248:ILE:HD12	1.80	0.62
1:A:971:ARG:HD2	1:A:1024:THR:HG23	1.80	0.62
1:A:1033:ILE:HB	1:A:1085:ILE:HG22	1.81	0.62
1:A:1292:LYS:HZ2	1:A:1361:LYS:NZ	1.96	0.62
1:A:2239:LYS:HD2	1:A:2279:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2555:LEU:O	1:A:2558:ALA:HB3	1.99	0.62
1:A:2837:LEU:HA	1:A:2840:PHE:CD2	2.30	0.62
1:A:2869:LEU:HG	1:A:2893:LEU:HD12	1.80	0.62
1:B:414:LEU:HA	1:B:417:VAL:HB	1.80	0.62
1:B:508:HIS:CD2	1:B:725:LEU:HD13	2.35	0.62
1:B:1265:GLU:O	1:B:1269:THR:HG23	2.00	0.62
1:B:1293:ALA:HA	1:B:1296:PHE:HD2	1.65	0.62
1:B:3174:ASP:OD2	1:B:3779:SER:HA	2.00	0.62
1:B:3582:GLU:O	1:B:3586:LYS:HB3	2.00	0.62
1:B:3630:ARG:HG2	1:B:3686:TRP:CD1	2.35	0.62
1:B:3812:LEU:HA	1:B:3815:LEU:HD12	1.81	0.62
1:A:345:PHE:CD2	1:A:367:GLY:HA3	2.34	0.62
1:A:509:ARG:HB3	1:A:729:CYS:SG	2.40	0.62
1:A:2847:THR:HB	1:A:2850:PHE:HD2	1.65	0.62
1:A:3810:VAL:CG2	1:A:3815:LEU:HD11	2.29	0.62
1:A:3931:ALA:O	1:A:3935:GLY:HA2	2.00	0.62
1:B:796:LEU:HA	1:B:799:TYR:CE2	2.34	0.62
1:B:870:LEU:HA	1:B:873:VAL:HB	1.81	0.62
1:B:1574:ASN:HB3	1:B:1582:LEU:HD21	1.82	0.62
1:B:2925:GLU:HA	1:B:3121:LEU:HD11	1.80	0.62
1:B:3393:GLU:OE1	1:B:3416:LEU:HD13	1.99	0.62
1:B:3872:ARG:HH11	1:B:3965:ARG:NH1	1.97	0.62
1:A:398:THR:O	1:A:401:ASP:N	2.33	0.62
1:A:794:PRO:HA	1:A:869:ASN:HB3	1.81	0.62
1:A:801:LYS:NZ	1:A:877:ASP:OD2	2.29	0.62
1:A:1119:LYS:HZ1	1:A:1256:TRP:HZ2	1.47	0.62
1:A:1216:GLY:HA3	1:A:1271:ILE:HG22	1.80	0.62
1:A:1220:LEU:HD13	1:A:1274:ARG:HG3	1.82	0.62
1:A:1342:MSE:SE	1:A:1372:LEU:HB2	2.50	0.62
1:A:1429:GLU:O	1:A:1433:ALA:CB	2.46	0.62
1:A:1880:MSE:HE2	1:A:1884:LEU:HD11	1.81	0.62
1:A:2002:LYS:C	1:A:2004:TYR:H	2.03	0.62
1:A:2227:LYS:HA	1:A:2234:ASN:HD22	1.64	0.62
1:A:2416:LYS:HB3	1:A:2442:MSE:SE	2.49	0.62
1:A:3930:VAL:HG12	1:A:3937:VAL:HG22	1.81	0.62
1:B:446:PHE:HA	1:B:449:TYR:HE2	1.62	0.62
1:B:1090:ARG:HA	1:B:1090:ARG:HE	1.64	0.62
1:B:1221:ILE:HG13	1:B:1274:ARG:NH1	2.14	0.62
1:B:2157:PHE:HE2	1:B:2199:LEU:CD1	2.12	0.62
1:B:2310:VAL:HG23	1:B:2315:VAL:HG21	1.81	0.62
1:B:2416:LYS:O	1:B:2420:PHE:CB	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2776:ARG:HA	1:B:2776:ARG:HH11	1.64	0.62
1:B:3019:ILE:HG13	1:B:3020:ASP:H	1.65	0.62
1:A:572:VAL:HG13	1:A:573:LEU:H	1.64	0.62
1:A:1449:ALA:HA	1:A:1452:VAL:HB	1.80	0.62
1:A:2283:ASN:O	1:A:2287:PRO:HD3	2.00	0.62
1:A:3465:PHE:HA	1:A:3468:LEU:HD12	1.81	0.62
1:B:18:THR:O	1:B:22:ALA:HB3	1.99	0.62
1:B:232:CYS:SG	1:B:274:LEU:HD13	2.40	0.62
1:B:634:LEU:HB3	1:B:638:GLN:HE22	1.65	0.62
1:B:1269:THR:HG22	1:B:1275:THR:HG21	1.82	0.62
1:B:3228:SER:HA	1:B:3231:ILE:HD12	1.80	0.62
1:B:3513:ALA:O	1:B:3516:HIS:N	2.33	0.62
1:A:538:ASP:O	1:A:545:LEU:HD13	1.99	0.62
1:A:789:TYR:HA	1:A:793:LEU:HD12	1.82	0.62
1:A:2874:ALA:HB1	1:A:2878:ALA:HB3	1.81	0.62
1:A:2913:LYS:O	1:A:2915:ARG:N	2.32	0.62
1:B:358:GLU:HG3	1:B:359:LEU:H	1.64	0.62
1:B:3243:ILE:HD13	1:B:3262:LEU:HD22	1.82	0.62
1:A:242:PRO:O	1:A:246:ARG:HB3	2.00	0.61
1:A:753:GLN:O	1:A:757:LYS:CB	2.48	0.61
1:A:935:HIS:HB2	1:A:984:TYR:HE2	1.65	0.61
1:A:1928:ALA:HB2	1:A:1941:HIS:CE1	2.35	0.61
1:B:732:PHE:HB2	1:B:733:LEU:HD23	1.82	0.61
1:B:1073:PHE:CZ	1:B:3745:GLU:HA	2.35	0.61
1:B:1280:GLN:HA	1:B:1361:LYS:NZ	2.15	0.61
1:B:1298:LEU:HA	1:B:1301:ILE:HB	1.82	0.61
1:A:202:GLY:O	1:A:206:THR:OG1	2.10	0.61
1:A:713:GLU:O	1:A:717:LYS:HG2	2.00	0.61
1:A:1604:SER:HB2	1:A:1632:TRP:HB3	1.82	0.61
1:A:2399:GLU:O	1:A:2402:LEU:HG	2.00	0.61
1:A:2549:LYS:HZ1	1:A:2557:LEU:CD2	2.10	0.61
1:A:3008:TRP:HA	1:A:3050:LYS:HG2	1.82	0.61
1:A:3684:SER:O	1:A:3688:SER:OG	2.14	0.61
1:A:3809:THR:HA	1:A:3931:ALA:HA	1.82	0.61
1:B:592:GLU:HB3	1:B:601:TRP:HZ2	1.65	0.61
1:B:913:ARG:HG3	1:B:937:MSE:SE	2.50	0.61
1:B:1214:GLU:HB2	1:B:1218:SER:HB3	1.82	0.61
1:B:1374:GLN:O	1:B:1378:GLU:HB2	2.00	0.61
1:B:2142:ILE:HA	1:B:2145:PHE:HD2	1.62	0.61
1:A:83:GLU:HG3	1:A:130:LEU:HD13	1.82	0.61
1:A:287:LEU:C	1:A:291:VAL:HB	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1108:MSE:O	1:A:1112:ALA:N	2.32	0.61
1:A:1996:VAL:HG23	1:A:1997:PRO:HD2	1.82	0.61
1:A:2274:ILE:HD13	1:A:2318:ALA:HB2	1.81	0.61
1:A:3037:GLN:HG3	1:A:3040:TYR:HE2	1.65	0.61
1:A:3578:LEU:HD13	1:A:3683:CYS:SG	2.40	0.61
1:A:3924:HIS:H	1:A:3927:ASN:HD22	1.46	0.61
1:B:980:THR:HG22	1:B:984:TYR:HE2	1.66	0.61
1:B:1403:MSE:HA	1:B:1406:LEU:HB2	1.81	0.61
1:B:2177:ASN:HD22	1:B:2182:ILE:CG2	2.12	0.61
1:B:2399:GLU:O	1:B:2402:LEU:HG	2.00	0.61
1:B:2957:LEU:HB3	1:B:3989:ARG:HH22	1.63	0.61
1:A:440:VAL:HG21	1:A:1814:PHE:CZ	2.36	0.61
1:A:913:ARG:NE	1:A:916:GLU:OE2	2.32	0.61
1:A:2167:PRO:O	1:A:2171:LEU:HB3	2.01	0.61
1:A:2925:GLU:O	1:A:2927:ALA:N	2.30	0.61
1:B:1431:LEU:HD11	1:B:1479:VAL:HG22	1.81	0.61
1:B:2538:ARG:HH11	1:B:2565:MSE:CB	2.08	0.61
1:B:2961:ALA:HB1	1:B:3002:TYR:CD1	2.33	0.61
1:A:508:HIS:HD2	1:A:725:LEU:HD22	1.65	0.61
1:A:1086:TYR:CD2	1:A:1090:ARG:HG2	2.36	0.61
1:A:1574:ASN:HB3	1:A:1582:LEU:HD21	1.81	0.61
1:A:2936:TYR:O	1:A:2940:ARG:HB2	2.00	0.61
1:A:3630:ARG:HD2	1:A:3633:ILE:HG12	1.83	0.61
1:A:3962:ARG:CZ	1:A:3962:ARG:HB2	2.30	0.61
1:B:2220:MSE:SE	1:B:2256:ILE:HD11	2.51	0.61
1:B:2849:SER:HB3	1:B:2881:LEU:HD12	1.82	0.61
1:B:3152:SER:HB3	1:B:3153:SER:CB	2.31	0.61
1:B:3167:ARG:HD3	1:B:3186:ARG:HG2	1.82	0.61
1:A:575:ILE:HG12	1:A:579:LEU:HB2	1.81	0.61
1:A:1076:LEU:HD22	1:A:1111:LEU:HG	1.83	0.61
1:A:2517:LEU:HA	1:A:2520:ILE:HG22	1.82	0.61
1:A:3765:GLU:O	1:A:3768:PHE:HB2	2.00	0.61
1:A:3962:ARG:NH1	1:A:4124:TRP:CZ3	2.66	0.61
1:B:612:LEU:O	1:B:616:LYS:N	2.31	0.61
1:B:1378:GLU:O	1:B:1382:ILE:HG12	2.01	0.61
1:B:2011:ALA:O	1:B:2013:GLU:N	2.33	0.61
1:B:3435:ASP:O	1:B:3439:LEU:HB3	2.01	0.61
1:B:4082:ARG:CG	1:B:4091:ALA:HB2	2.30	0.61
1:A:446:PHE:CE2	1:A:530:LEU:HB3	2.34	0.61
1:A:1178:ARG:HB3	1:A:1179:PRO:HD3	1.82	0.61
1:A:2396:LEU:HA	1:A:2400:VAL:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3885:ARG:O	1:A:3889:ARG:HB2	1.99	0.61
1:B:146:GLU:HB2	1:B:149:ILE:HB	1.83	0.61
1:B:1108:MSE:O	1:B:1112:ALA:N	2.33	0.61
1:B:3314:SER:HB3	1:B:3318:LYS:HE3	1.82	0.61
1:B:3491:PRO:CB	1:B:3711:PRO:HB3	2.30	0.61
1:B:3493:TRP:HB3	1:B:3711:PRO:HA	1.81	0.61
1:A:934:LEU:HA	1:A:937:MSE:HE3	1.83	0.61
1:A:970:LEU:HD21	1:A:1031:ARG:HH21	1.65	0.61
1:A:1352:SER:HB3	1:A:1353:PRO:HD3	1.83	0.61
1:A:3414:MSE:HE1	1:A:3450:MSE:HA	1.82	0.61
1:A:3435:ASP:O	1:A:3439:LEU:CB	2.49	0.61
1:A:3797:THR:HG22	1:A:3800:LEU:HG	1.82	0.61
1:B:367:GLY:C	1:B:369:PHE:H	2.03	0.61
1:B:938:VAL:O	1:B:942:LEU:HB2	2.00	0.61
1:B:1270:PHE:HZ	1:B:1347:THR:HB	1.66	0.61
1:B:2847:THR:HB	1:B:2850:PHE:HD2	1.65	0.61
1:B:3047:SER:O	1:B:3050:LYS:HG3	2.01	0.61
1:B:3729:MSE:HE2	1:B:3737:ARG:HB2	1.82	0.61
1:B:3835:PRO:HA	1:B:3871:PHE:HE1	1.65	0.61
1:B:3923:ARG:CD	1:B:3962:ARG:HH22	2.14	0.61
1:A:349:ILE:CD1	1:A:368:LEU:HD12	2.31	0.61
1:A:935:HIS:HB2	1:A:984:TYR:CE2	2.34	0.61
1:A:1142:HIS:O	1:A:1144:SER:N	2.30	0.61
1:A:1248:PHE:HB3	1:A:3695:LEU:HD23	1.83	0.61
1:A:1270:PHE:CZ	1:A:1347:THR:HG23	2.35	0.61
1:A:2204:GLY:HA2	1:A:2208:ASP:OD2	2.00	0.61
1:A:2479:TRP:CZ3	1:A:2480:ILE:HD13	2.36	0.61
1:A:3517:SER:HA	1:A:3520:GLU:HB2	1.81	0.61
1:A:3543:LYS:HE2	1:A:3545:THR:HG22	1.82	0.61
1:B:206:THR:HA	1:B:209:THR:OG1	2.01	0.61
1:B:1352:SER:O	1:B:1354:GLU:N	2.33	0.61
1:B:1587:VAL:HG23	1:B:1647:ALA:HB2	1.82	0.61
1:B:2814:SER:O	1:B:2818:LYS:HB2	2.00	0.61
1:A:114:VAL:HG12	1:A:130:LEU:HD21	1.81	0.61
1:A:239:GLU:HG3	1:A:240:GLU:HG3	1.83	0.61
1:A:273:ARG:HG3	1:A:274:LEU:N	2.15	0.61
1:A:437:HIS:O	1:A:440:VAL:HG22	2.00	0.61
1:A:484:HIS:CD2	1:A:556:SER:HB3	2.36	0.61
1:A:621:SER:HB3	1:A:659:ARG:CZ	2.31	0.61
1:A:645:TRP:CE3	1:A:660:LEU:HD11	2.35	0.61
1:A:1740:VAL:O	1:A:1743:MSE:HG3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2933:ILE:HD13	1:A:3976:GLU:HG3	1.83	0.61
1:A:2960:GLU:HG2	1:A:3252:PHE:CD2	2.36	0.61
1:B:2157:PHE:HE2	1:B:2199:LEU:HD13	1.66	0.61
1:B:2345:VAL:O	1:B:2349:LEU:HG	2.01	0.61
1:B:2943:PHE:C	1:B:2945:SER:H	2.04	0.61
1:B:3247:ARG:NE	1:B:3278:GLN:OE1	2.30	0.61
1:B:3614:TYR:O	1:B:3618:GLY:N	2.29	0.61
1:B:3631:LYS:HA	1:B:3634:GLN:HB3	1.83	0.61
1:A:177:LEU:O	1:A:180:LEU:N	2.34	0.60
1:A:446:PHE:HD1	1:A:447:PRO:HD3	1.65	0.60
1:A:637:LYS:O	1:A:641:PHE:HB3	2.01	0.60
1:A:2183:HIS:CE1	1:A:2237:ILE:HD13	2.36	0.60
1:A:2260:PHE:HD1	1:A:2274:ILE:HG22	1.65	0.60
1:A:3915:HIS:O	1:A:3918:LEU:N	2.33	0.60
1:B:659:ARG:NH2	1:B:662:LEU:HG	2.10	0.60
1:B:1886:LYS:HE3	1:B:1924:THR:HG21	1.82	0.60
1:B:2274:ILE:HA	1:B:2277:LEU:HG	1.83	0.60
1:B:2481:HIS:HE1	1:B:2485:ARG:HH11	1.49	0.60
1:B:2575:PRO:HD2	1:B:2785:ILE:HD11	1.81	0.60
1:B:2806:LYS:HZ1	1:B:2858:ILE:HG21	1.64	0.60
1:B:3498:TRP:CD1	1:B:3498:TRP:O	2.54	0.60
1:A:135:LEU:HD21	1:A:173:LYS:HD2	1.83	0.60
1:A:1087:ARG:HD2	1:A:1137:ILE:HD11	1.83	0.60
1:A:1118:GLU:HG3	1:A:3743:HIS:CE1	2.35	0.60
1:A:1155:ARG:O	1:A:1158:PRO:HD2	2.01	0.60
1:A:1885:PRO:O	1:A:1889:VAL:HG23	2.00	0.60
1:A:3117:ILE:HG13	1:A:3120:LEU:HB3	1.82	0.60
1:A:3283:LEU:HD11	1:A:3297:VAL:HG13	1.82	0.60
1:A:3788:LEU:HD13	1:A:3910:LEU:HD23	1.82	0.60
1:A:3947:GLY:O	1:A:3950:THR:N	2.34	0.60
1:B:175:TYR:HA	1:B:178:LEU:HD12	1.82	0.60
1:B:627:VAL:HG12	1:B:628:GLU:N	2.15	0.60
1:B:775:GLU:O	1:B:779:TYR:HD2	1.84	0.60
1:B:1419:LEU:O	1:B:1421:GLU:N	2.34	0.60
1:B:1711:ARG:HG3	1:B:1712:ARG:H	1.65	0.60
1:B:1903:SER:O	1:B:1906:THR:OG1	2.18	0.60
1:B:2316:TYR:CZ	1:B:2317:ALA:HB2	2.36	0.60
1:B:2989:ALA:O	1:B:2993:PHE:N	2.32	0.60
1:B:3595:GLU:HA	1:B:3598:LYS:HD2	1.81	0.60
1:A:246:ARG:HA	1:A:249:PHE:HD2	1.66	0.60
1:A:607:ASP:HA	1:A:610:ALA:HB3	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1424:THR:OG1	1:A:1425:ALA:N	2.34	0.60
1:A:1452:VAL:HG11	1:A:1502:SER:HB3	1.82	0.60
1:A:1805:PHE:HA	1:A:1808:ASP:OD2	2.00	0.60
1:A:2167:PRO:HB2	1:A:2171:LEU:HD22	1.83	0.60
1:A:2813:PHE:HA	1:A:2816:ILE:HG22	1.82	0.60
1:B:242:PRO:HB3	1:B:282:PHE:CD1	2.35	0.60
1:B:404:ASP:O	1:B:406:ARG:N	2.33	0.60
1:B:1762:MSE:HE2	1:B:1899:VAL:HG11	1.83	0.60
1:B:2353:GLN:HG2	1:B:2361:ILE:HD13	1.83	0.60
1:B:2775:TYR:HB3	1:B:2776:ARG:NH2	2.16	0.60
1:B:3048:LYS:O	1:B:3052:LEU:N	2.31	0.60
1:B:3265:GLU:HA	1:B:3267:LYS:HE3	1.84	0.60
1:A:390:GLN:O	1:A:393:LYS:HG2	2.01	0.60
1:A:1761:LEU:HD22	1:A:1860:GLU:HB3	1.83	0.60
1:A:1981:LEU:O	1:A:1985:LYS:HG2	2.02	0.60
1:A:2088:LEU:O	1:A:2092:GLU:N	2.34	0.60
1:A:3876:SER:O	1:A:3879:PRO:HD2	2.00	0.60
1:B:108:LYS:HG2	1:B:138:PHE:HA	1.81	0.60
1:B:3065:ILE:HD13	1:B:3089:LEU:HD21	1.83	0.60
1:B:3594:ALA:HB1	1:B:4028:ILE:HD13	1.83	0.60
1:B:3954:PRO:HB3	1:B:4027:TRP:HA	1.82	0.60
1:A:617:PRO:HB3	1:A:659:ARG:HG2	1.82	0.60
1:A:908:ASP:HB3	1:A:2807:GLN:OE1	2.01	0.60
1:A:1131:ILE:HA	1:A:1134:LEU:HG	1.84	0.60
1:A:1978:PHE:O	1:A:1981:LEU:HB3	2.01	0.60
1:A:1983:ASP:O	1:A:1987:ARG:HB2	2.02	0.60
1:A:2413:PHE:CD1	1:A:2442:MSE:HG2	2.36	0.60
1:A:2430:GLU:OE2	1:A:2461:PHE:HD1	1.83	0.60
1:A:3181:ASP:O	1:A:3184:THR:OG1	2.13	0.60
1:A:4004:VAL:O	1:A:4008:GLU:CB	2.50	0.60
1:B:224:LEU:HD22	1:B:248:ILE:HD11	1.83	0.60
1:B:327:VAL:HG22	1:B:338:LEU:HD13	1.83	0.60
1:B:730:LEU:HD23	1:B:733:LEU:HD12	1.83	0.60
1:B:1259:LEU:HG	1:B:1337:VAL:HG22	1.83	0.60
1:B:1743:MSE:HG2	1:B:1747:LEU:HD12	1.83	0.60
1:B:3389:VAL:HG11	1:B:3419:PHE:CZ	2.35	0.60
1:B:3965:ARG:HE	1:B:3969:ASN:HD21	1.49	0.60
1:A:403:GLY:C	1:A:405:ASP:H	2.04	0.60
1:A:966:PHE:O	1:A:969:LEU:HB3	2.02	0.60
1:A:1100:VAL:O	1:A:1104:LEU:N	2.33	0.60
1:A:1935:GLU:HB2	1:A:1986:ARG:CZ	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3155:VAL:N	1:A:3156:PRO:HD2	2.17	0.60
1:A:3725:ARG:NH1	1:A:3737:ARG:HH22	1.99	0.60
1:B:613:HIS:ND1	1:B:614:PRO:HD3	2.16	0.60
1:B:1742:CYS:HA	1:B:1745:LYS:HD2	1.83	0.60
1:B:2472:GLN:O	1:B:2476:ILE:HG23	2.02	0.60
1:B:3483:MSE:O	1:B:3516:HIS:NE2	2.35	0.60
1:B:3670:MSE:O	1:B:3674:SER:HB3	2.00	0.60
1:A:249:PHE:O	1:A:253:LEU:HG	2.01	0.60
1:A:566:ASP:OD2	1:A:1800:SER:HA	2.02	0.60
1:A:3503:VAL:HG23	1:A:3536:SER:HA	1.83	0.60
1:A:3760:GLN:OE1	1:A:3760:GLN:N	2.34	0.60
1:B:1066:LEU:HA	1:B:1069:HIS:CD2	2.36	0.60
1:B:1220:LEU:HD13	1:B:1274:ARG:HG3	1.81	0.60
1:B:1700:THR:OG1	1:B:1701:SER:N	2.33	0.60
1:B:1946:ASN:O	1:B:1949:ILE:HG22	2.02	0.60
1:B:2326:ILE:HG21	1:B:2341:LEU:HD23	1.82	0.60
1:B:3723:ASP:HB2	1:B:3741:ARG:HE	1.66	0.60
1:A:752:LEU:HB2	1:A:756:PHE:CE1	2.37	0.60
1:A:936:SER:O	1:A:939:MSE:N	2.35	0.60
1:A:3152:SER:HB3	1:A:3153:SER:CB	2.32	0.60
1:A:3487:ILE:CG2	1:A:3495:PHE:HB2	2.31	0.60
1:B:649:PHE:HE1	1:B:653:LEU:H	1.49	0.60
1:B:1130:ALA:O	1:B:1134:LEU:HG	2.01	0.60
1:B:1146:ASN:O	1:B:1150:LYS:HB3	2.02	0.60
1:B:2975:ALA:C	1:B:2977:ASN:H	2.05	0.60
1:B:3344:GLU:O	1:B:3348:LEU:HG	2.02	0.60
1:B:3928:PHE:HE2	1:B:3962:ARG:HE	1.47	0.60
1:B:3962:ARG:NH1	1:B:4124:TRP:CH2	2.70	0.60
1:A:416:SER:O	1:A:420:VAL:HB	2.01	0.60
1:A:999:LYS:HB3	1:A:1001:PHE:CE2	2.37	0.60
1:A:1063:LEU:HD13	1:A:1082:PHE:CZ	2.37	0.60
1:A:1583:MSE:HE2	1:A:1639:LEU:HB2	1.83	0.60
1:A:2083:LEU:H	1:A:2086:ASP:HB2	1.67	0.60
1:A:2274:ILE:CG1	1:A:2314:GLU:HB3	2.32	0.60
1:A:2554:PHE:O	1:A:2557:LEU:N	2.35	0.60
1:A:3351:ILE:O	1:A:3355:LYS:HG2	2.02	0.60
1:B:1520:ALA:O	1:B:1524:LEU:HD13	2.01	0.60
1:B:3916:TRP:CE3	1:B:3917:ILE:HD12	2.36	0.60
1:B:3950:THR:OG1	1:B:3957:GLU:O	2.09	0.60
1:A:249:PHE:CD1	1:A:297:LEU:HD13	2.37	0.60
1:A:2157:PHE:HE1	1:A:2203:THR:HB	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2389:PHE:CD2	1:A:2396:LEU:HD22	2.36	0.60
1:A:3971:MSE:HE1	1:A:3980:MSE:SE	2.52	0.60
1:B:1762:MSE:HG2	1:B:1896:ILE:HA	1.83	0.60
1:B:2145:PHE:HZ	1:B:2185:MSE:HA	1.66	0.60
1:B:2981:TRP:O	1:B:2985:GLU:HB2	2.02	0.60
1:B:3444:ALA:HA	1:B:3475:TYR:OH	2.02	0.60
1:B:3571:PHE:O	1:B:3575:LEU:CB	2.49	0.60
1:A:396:PHE:CD2	1:A:441:MSE:HG3	2.37	0.59
1:A:414:LEU:HA	1:A:417:VAL:HB	1.84	0.59
1:A:722:LYS:HB3	1:A:727:ALA:HA	1.84	0.59
1:A:933:LEU:HD11	1:A:2795:GLN:OE1	2.02	0.59
1:A:2183:HIS:HE1	1:A:2237:ILE:HG21	1.67	0.59
1:A:2436:LEU:O	1:A:2439:ILE:HG22	2.02	0.59
1:A:3498:TRP:HE1	1:A:3502:MSE:SE	2.35	0.59
1:A:3572:ILE:O	1:A:3575:LEU:HB2	2.01	0.59
1:A:3584:LEU:O	1:A:3588:TRP:HB3	2.02	0.59
1:B:18:THR:O	1:B:22:ALA:CB	2.49	0.59
1:B:913:ARG:HA	1:B:916:GLU:CD	2.23	0.59
1:B:1166:LEU:HB3	1:B:1170:LYS:NZ	2.17	0.59
1:B:1569:THR:O	1:B:1573:LYS:HB2	2.02	0.59
1:B:1750:LEU:O	1:B:1754:GLN:HG3	2.02	0.59
1:B:3722:PHE:CE1	1:B:3740:ILE:HG12	2.23	0.59
1:A:1344:PHE:HA	1:A:1347:THR:HB	1.84	0.59
1:A:1438:GLY:O	1:A:1441:ALA:HB2	2.01	0.59
1:A:1916:ILE:HG23	1:A:1920:TYR:CE1	2.36	0.59
1:A:2139:PRO:O	1:A:2143:ARG:HD2	2.01	0.59
1:A:2352:HIS:HB2	1:A:2364:LEU:HD11	1.83	0.59
1:A:2549:LYS:NZ	1:A:2557:LEU:HD22	2.11	0.59
1:A:3047:SER:HB2	1:A:3050:LYS:HE2	1.84	0.59
1:A:3435:ASP:O	1:A:3439:LEU:HB3	2.02	0.59
1:A:3572:ILE:HA	1:A:3575:LEU:HG	1.82	0.59
1:A:3723:ASP:HB2	1:A:3741:ARG:HE	1.67	0.59
1:B:850:GLU:OE2	1:B:854:ARG:NH2	2.34	0.59
1:B:977:ASP:HB3	1:B:981:ARG:H	1.67	0.59
1:B:2430:GLU:HG3	1:B:2465:PRO:CB	2.32	0.59
1:A:393:LYS:HA	1:A:396:PHE:HD1	1.67	0.59
1:A:913:ARG:CB	1:A:934:LEU:HD12	2.32	0.59
1:A:980:THR:O	1:A:984:TYR:HD1	1.85	0.59
1:A:1651:LYS:O	1:A:1654:GLN:HB2	2.02	0.59
1:A:2325:LEU:HG	1:A:2329:TYR:CE2	2.37	0.59
1:A:3913:ILE:HD11	1:A:3984:MSE:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3946:PHE:HE2	1:A:4048:LYS:HD2	1.68	0.59
1:B:610:ALA:HA	1:B:613:HIS:CE1	2.37	0.59
1:B:1175:HIS:O	1:B:1179:PRO:HD3	2.01	0.59
1:A:966:PHE:HB3	1:A:967:PRO:HD3	1.83	0.59
1:A:1029:CYS:SG	1:A:1085:ILE:HG13	2.42	0.59
1:A:1142:HIS:C	1:A:1144:SER:H	2.05	0.59
1:A:1894:SER:HB2	1:A:1896:ILE:HG13	1.83	0.59
1:A:1996:VAL:HG21	1:A:2047:THR:OG1	2.02	0.59
1:A:2510:LEU:HG	1:A:2522:ARG:HE	1.68	0.59
1:A:3080:LEU:HB3	1:A:3102:TYR:CE1	2.37	0.59
1:A:3090:TYR:HB2	1:A:3099:ALA:HB2	1.84	0.59
1:A:3439:LEU:O	1:A:3443:PRO:HD3	2.02	0.59
1:A:3583:LEU:HD13	1:A:3755:GLY:HA3	1.85	0.59
1:B:108:LYS:HB3	1:B:138:PHE:CD1	2.37	0.59
1:B:1005:ASP:N	1:B:1005:ASP:OD1	2.34	0.59
1:B:2129:LEU:HD22	1:B:2144:LEU:HD11	1.83	0.59
1:B:2330:VAL:CG2	1:B:2335:ASN:HA	2.28	0.59
1:B:2420:PHE:CZ	1:B:2436:LEU:HB3	2.37	0.59
1:B:2542:LEU:CB	1:B:2546:TYR:HE2	2.14	0.59
1:B:2886:GLN:CD	1:B:2887:PRO:HD3	2.23	0.59
1:B:3333:THR:OG1	1:B:3385:LEU:HB3	2.01	0.59
1:B:3887:PHE:HE1	1:B:3900:LEU:HB3	1.67	0.59
2:S:217:UNK:HA	2:S:220:MSE:SE	2.52	0.59
1:A:136:GLN:HA	1:A:139:ARG:HD3	1.84	0.59
1:A:2274:ILE:HG12	1:A:2314:GLU:HB3	1.83	0.59
1:A:2420:PHE:CZ	1:A:2436:LEU:HB3	2.37	0.59
1:A:3811:THR:HG22	1:A:3929:MSE:SE	2.53	0.59
1:A:4081:ALA:HA	1:A:4113:ASP:OD2	2.02	0.59
1:B:232:CYS:HG	1:B:275:PHE:HE1	1.50	0.59
1:B:633:ILE:HG22	1:B:634:LEU:HD23	1.84	0.59
1:B:1908:GLY:HA3	1:B:1952:ILE:HG13	1.84	0.59
1:B:3069:MSE:HA	1:B:3072:GLU:HB3	1.84	0.59
1:B:3389:VAL:O	1:B:3393:GLU:HG3	2.02	0.59
1:A:1416:GLU:O	1:A:1420:ARG:HB2	2.03	0.59
1:A:1711:ARG:HB3	1:A:1739:TYR:HE1	1.68	0.59
1:A:1925:GLU:O	1:A:1928:ALA:N	2.32	0.59
1:A:2326:ILE:O	1:A:2330:VAL:HB	2.03	0.59
1:A:3156:PRO:HB2	1:A:3197:LEU:HD12	1.84	0.59
1:A:3581:PRO:O	1:A:3585:PHE:HD1	1.85	0.59
1:B:172:GLU:OE2	1:B:264:ARG:NH2	2.36	0.59
1:B:1142:HIS:C	1:B:1144:SER:H	2.05	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1368:LEU:HA	1:B:1371:VAL:HG12	1.83	0.59
1:B:2239:LYS:O	1:B:2242:VAL:HB	2.02	0.59
1:B:2281:MSE:SE	1:B:2286:PRO:HB3	2.52	0.59
1:B:2501:LEU:O	1:B:2505:VAL:HG23	2.02	0.59
1:B:2921:LEU:HD12	1:B:2922:ARG:N	2.17	0.59
1:B:3592:VAL:HA	1:B:3609:MSE:SE	2.53	0.59
1:A:253:LEU:HD21	1:A:297:LEU:HA	1.84	0.59
1:A:940:PHE:CE1	1:A:2791:ILE:HG21	2.37	0.59
1:A:1267:TYR:O	1:A:1271:ILE:HG13	2.03	0.59
1:A:1467:ILE:HG13	1:A:1468:LEU:HG	1.84	0.59
1:A:1962:TYR:O	1:A:1965:PHE:N	2.35	0.59
1:A:2299:TYR:O	1:A:2302:ALA:N	2.35	0.59
1:A:2319:ALA:O	1:A:2323:LEU:HD12	2.03	0.59
1:A:2851:PHE:HA	1:A:2854:PHE:CE2	2.38	0.59
1:A:2957:LEU:HB3	1:A:3989:ARG:HH12	1.63	0.59
1:A:3031:TRP:CE3	1:A:3034:PRO:HD3	2.37	0.59
1:A:3492:CYS:O	1:A:3495:PHE:CB	2.50	0.59
1:A:3612:ARG:HD3	1:A:3799:ARG:NH2	2.17	0.59
1:A:3963:LEU:HD12	1:A:3967:PHE:HZ	1.66	0.59
1:B:327:VAL:HG13	1:B:338:LEU:HD13	1.84	0.59
1:B:1594:SER:OG	1:B:1683:LYS:HD3	2.02	0.59
1:B:2040:MSE:HA	1:B:2043:PHE:HD1	1.68	0.59
1:B:2136:PRO:C	1:B:2139:PRO:HD2	2.22	0.59
1:B:2144:LEU:HB3	1:B:2148:LYS:CE	2.33	0.59
1:B:2291:GLN:O	1:B:2293:GLY:N	2.35	0.59
1:B:2638:UNK:O	1:B:2790:LEU:HD13	2.02	0.59
1:B:3000:ASP:O	1:B:3004:HIS:N	2.35	0.59
1:A:2270:ASN:O	1:A:2274:ILE:HG23	2.03	0.59
1:A:2543:ASN:HA	1:A:2546:TYR:HD2	1.67	0.59
1:A:2960:GLU:CD	1:A:3289:ARG:HH12	2.05	0.59
1:B:179:GLY:HA3	1:B:229:SER:HB3	1.84	0.59
1:B:270:ALA:O	1:B:274:LEU:HG	2.03	0.59
1:B:886:TRP:CH2	1:B:892:LEU:HD13	2.37	0.59
1:B:1655:ILE:HG12	1:B:1681:ASP:HB3	1.83	0.59
1:B:2419:ASP:O	1:B:2422:GLN:HB3	2.02	0.59
1:B:2645:UNK:HA	1:B:2649:UNK:C	2.33	0.59
1:B:3273:LEU:O	1:B:3277:VAL:HG12	2.03	0.59
1:B:4062:ASP:O	1:B:4065:LEU:HG	2.03	0.59
1:A:194:GLU:HA	1:A:197:PHE:HD2	1.68	0.59
1:A:242:PRO:O	1:A:246:ARG:CB	2.50	0.59
1:A:980:THR:HG23	1:A:984:TYR:CE1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1060:PHE:O	1:A:1064:TYR:HD2	1.85	0.59
1:A:1437:TYR:O	1:A:1439:PRO:HD2	2.02	0.59
1:A:1571:LEU:HD13	1:A:1599:GLY:O	2.03	0.59
1:A:1647:ALA:O	1:A:1651:LYS:HE3	2.02	0.59
1:A:2546:TYR:CE1	1:A:2558:ALA:HB2	2.38	0.59
1:A:2868:LEU:O	1:A:2872:ASP:HB2	2.03	0.59
1:A:3269:ARG:HH11	1:A:3312:VAL:HA	1.66	0.59
1:A:3638:LYS:O	1:A:3641:ASP:N	2.36	0.59
1:A:3811:THR:O	1:A:3811:THR:OG1	2.19	0.59
1:A:4006:VAL:HA	1:A:4012:ASP:OD2	2.03	0.59
1:B:197:PHE:CZ	1:B:230:LEU:HD22	2.37	0.59
1:B:390:GLN:NE2	1:B:1723:PRO:HG2	2.18	0.59
1:B:392:CYS:HA	1:B:395:MSE:HB2	1.83	0.59
1:B:437:HIS:HA	1:B:1814:PHE:CZ	2.38	0.59
1:B:767:GLU:HG2	1:B:846:ILE:O	2.03	0.59
1:B:1018:VAL:HB	1:B:1074:LYS:CB	2.28	0.59
1:B:2185:MSE:O	1:B:2189:ILE:HG13	2.02	0.59
1:B:3753:LYS:HD3	1:B:3758:LEU:HD21	1.85	0.59
1:B:3909:ALA:HB2	1:B:3980:MSE:HE2	1.83	0.59
1:A:1866:GLN:O	1:A:1870:LYS:HB2	2.03	0.59
1:A:1992:VAL:HG21	1:A:2044:ASP:OD1	2.03	0.59
1:A:2330:VAL:CG2	1:A:2335:ASN:HA	2.31	0.59
1:A:3076:ALA:HB1	1:A:3080:LEU:HD11	1.85	0.59
1:A:3324:ARG:O	1:A:3328:ILE:HG13	2.02	0.59
1:A:3505:LEU:HB3	1:A:3510:GLN:OE1	2.03	0.59
1:B:1016:GLY:O	1:B:1019:ASP:HB2	2.03	0.59
1:B:1084:ASN:CG	1:B:1134:LEU:HD11	2.22	0.59
1:B:3908:HIS:O	1:B:3911:ILE:HG12	2.03	0.59
1:A:535:LEU:HD13	1:A:626:LEU:HD21	1.84	0.58
1:A:982:GLN:O	1:A:986:PRO:HD3	2.03	0.58
1:A:1736:PHE:O	1:A:1740:VAL:HG23	2.02	0.58
1:A:2462:VAL:CB	1:A:2473:MSE:SE	3.00	0.58
1:A:3585:PHE:HE2	1:A:3617:LEU:HD11	1.68	0.58
1:B:673:THR:HG22	1:B:704:PHE:HE1	1.68	0.58
1:B:806:SER:O	1:B:809:THR:N	2.36	0.58
1:B:3149:GLY:HA3	1:B:3196:LYS:HE3	1.84	0.58
1:B:3351:ILE:HG23	1:B:3355:LYS:HE2	1.84	0.58
1:B:3503:VAL:HG22	1:B:3539:SER:HB2	1.84	0.58
1:B:3516:HIS:CG	1:B:3517:SER:N	2.70	0.58
1:A:437:HIS:CD2	1:A:438:LEU:N	2.70	0.58
1:A:1102:GLU:HA	1:A:1150:LYS:NZ	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1330:TYR:O	1:A:1334:LYS:HG2	2.03	0.58
1:A:2058:ASP:H	1:A:2061:PRO:HG2	1.68	0.58
1:A:2221:LYS:O	1:A:2225:HIS:ND1	2.36	0.58
1:A:2560:ASN:OD1	1:A:2800:ARG:NH1	2.36	0.58
1:A:2936:TYR:CD2	1:A:3979:LEU:HD21	2.38	0.58
1:A:3274:VAL:O	1:A:3277:VAL:HG22	2.04	0.58
1:A:3769:GLN:HA	1:A:3772:ASN:OD1	2.03	0.58
1:A:3813:LYS:CE	1:A:3926:ASN:HB2	2.31	0.58
1:A:3872:ARG:NH1	1:A:3965:ARG:HH12	1.98	0.58
1:B:111:CYS:HB2	1:B:134:LEU:HB3	1.86	0.58
1:B:176:GLU:HG2	1:B:225:LYS:HD3	1.83	0.58
1:B:738:HIS:ND1	1:B:745:VAL:HG13	2.18	0.58
1:B:1036:PHE:CD1	1:B:1059:LEU:HD11	2.38	0.58
1:B:1648:LEU:HD13	1:B:1688:LEU:HD21	1.85	0.58
1:B:1737:ASN:C	1:B:1739:TYR:H	2.06	0.58
1:B:2145:PHE:CZ	1:B:2185:MSE:HA	2.39	0.58
1:B:3190:LEU:HD21	1:B:3235:LYS:HG2	1.85	0.58
1:B:3583:LEU:HD21	1:B:3733:ARG:HD3	1.84	0.58
1:B:3637:GLY:O	1:B:3641:ASP:HB3	2.03	0.58
1:A:368:LEU:CD2	1:A:384:MSE:HB2	2.18	0.58
1:A:1386:ILE:HA	1:A:1389:VAL:HB	1.85	0.58
1:A:1454:ALA:O	1:A:1457:GLN:HB2	2.03	0.58
1:A:2378:PHE:O	1:A:2382:VAL:HG22	2.02	0.58
1:A:2942:ILE:HD12	1:A:2987:THR:HG22	1.85	0.58
1:A:3505:LEU:HA	1:A:3509:ASP:HB2	1.84	0.58
1:B:143:LEU:O	1:B:144:MSE:HB2	2.03	0.58
1:B:321:LYS:O	1:B:325:ASN:ND2	2.26	0.58
1:B:435:LEU:O	1:B:439:VAL:HG23	2.03	0.58
1:B:535:LEU:HD21	1:B:622:ALA:O	2.03	0.58
1:B:752:LEU:HA	1:B:755:ALA:HB3	1.84	0.58
1:B:1918:LEU:HD13	1:B:1958:GLU:HB3	1.85	0.58
1:B:2003:LYS:O	1:B:2007:ILE:HG13	2.03	0.58
1:B:2157:PHE:HA	1:B:2160:TYR:CD2	2.38	0.58
1:B:2182:ILE:O	1:B:2186:VAL:HG12	2.03	0.58
1:B:2775:TYR:HB3	1:B:2776:ARG:CZ	2.33	0.58
1:B:2936:TYR:HA	1:B:2939:LEU:HB2	1.85	0.58
1:B:3427:GLU:HB3	1:B:3439:LEU:HD22	1.85	0.58
1:A:446:PHE:HA	1:A:449:TYR:CE2	2.39	0.58
1:A:613:HIS:ND1	1:A:614:PRO:HD3	2.18	0.58
1:A:633:ILE:HG22	1:A:637:LYS:HG2	1.86	0.58
1:A:727:ALA:O	1:A:731:THR:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:985:GLU:HB3	1:A:986:PRO:HD3	1.84	0.58
1:A:1296:PHE:HD1	1:A:1299:GLU:OE2	1.86	0.58
1:A:1711:ARG:HB3	1:A:1739:TYR:CE1	2.37	0.58
1:A:1919:CYS:O	1:A:1923:PHE:CB	2.50	0.58
1:A:2884:LEU:HD22	1:A:3895:GLU:OE2	2.03	0.58
1:A:3099:ALA:O	1:A:3103:ILE:HB	2.02	0.58
1:A:3454:LEU:HA	1:A:3456:LEU:HD12	1.85	0.58
1:B:571:SER:O	1:B:605:THR:OG1	2.19	0.58
1:B:1963:GLN:NE2	1:B:1995:GLU:HG2	2.18	0.58
1:B:2070:GLU:HA	1:B:2071:GLN:HB2	1.85	0.58
1:B:2913:LYS:HG3	1:B:2914:ALA:N	2.18	0.58
1:A:1386:ILE:HB	1:A:1391:VAL:HG21	1.84	0.58
1:A:1959:LEU:HD13	1:A:1998:MSE:HE3	1.84	0.58
1:A:2420:PHE:CE1	1:A:2436:LEU:HB3	2.38	0.58
1:A:3092:LEU:HD22	1:A:3192:LYS:HE2	1.86	0.58
1:A:3587:ASP:HB3	1:A:4022:LYS:NZ	2.19	0.58
1:B:503:SER:O	1:B:507:ASP:HB2	2.02	0.58
1:B:713:GLU:O	1:B:717:LYS:HG2	2.04	0.58
1:B:722:LYS:HD2	1:B:730:LEU:HB2	1.85	0.58
1:B:971:ARG:HD2	1:B:1024:THR:OG1	2.04	0.58
1:B:1583:MSE:HE3	1:B:1643:MSE:CB	2.33	0.58
1:A:450:SER:O	1:A:454:GLN:HB2	2.04	0.58
1:A:491:CYS:SG	1:A:615:ALA:HB2	2.43	0.58
1:A:566:ASP:O	1:A:570:LYS:NZ	2.36	0.58
1:A:1648:LEU:HD22	1:A:1684:LEU:HD22	1.86	0.58
1:A:2275:GLN:O	1:A:2279:ILE:HG12	2.03	0.58
1:A:2962:ARG:NH2	1:A:3006:ALA:HB1	2.18	0.58
1:A:3092:LEU:HD22	1:A:3192:LYS:CE	2.33	0.58
1:A:3339:ASN:O	1:A:3341:LEU:N	2.36	0.58
1:B:572:VAL:HG13	1:B:573:LEU:H	1.67	0.58
1:B:1651:LYS:HB2	1:B:1684:LEU:CD1	2.29	0.58
1:B:2011:ALA:HB3	1:B:2014:ALA:CB	2.29	0.58
1:B:2126:MSE:HE2	1:B:2156:VAL:HG22	1.86	0.58
1:B:2167:PRO:O	1:B:2171:LEU:CB	2.33	0.58
1:B:2900:LEU:HD12	1:B:2905:LEU:HD11	1.84	0.58
1:A:205:LYS:HA	1:A:208:MSE:HG2	1.84	0.58
1:A:509:ARG:HD2	1:A:655:LEU:HD13	1.84	0.58
1:A:1059:LEU:O	1:A:1063:LEU:HG	2.03	0.58
1:A:1101:PHE:CD2	1:A:1138:ILE:HG12	2.38	0.58
1:A:1327:GLY:O	1:A:1330:TYR:HB3	2.04	0.58
1:A:1594:SER:HA	1:A:1687:HIS:HE1	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2085:MSE:SE	1:A:2088:LEU:HD22	2.54	0.58
1:A:2140:LEU:HA	1:A:2143:ARG:HD3	1.86	0.58
1:A:2454:LEU:O	1:A:2457:PRO:HD2	2.03	0.58
1:A:3910:LEU:O	1:A:3914:SER:OG	2.15	0.58
1:B:204:LEU:HD13	1:B:223:CYS:HB2	1.84	0.58
1:B:410:MSE:HE1	1:B:445:SER:HB3	1.85	0.58
1:B:446:PHE:CD1	1:B:447:PRO:HD3	2.38	0.58
1:B:903:PRO:HG2	1:B:2811:SER:HB2	1.85	0.58
1:B:1063:LEU:HD13	1:B:1082:PHE:CE1	2.38	0.58
1:B:1086:TYR:HE2	1:B:1090:ARG:HE	1.51	0.58
1:B:1644:ALA:HA	1:B:1648:LEU:HD12	1.83	0.58
1:B:1925:GLU:OE2	1:B:1959:LEU:HG	2.03	0.58
1:B:2358:ASP:HB2	1:B:2396:LEU:CD2	2.30	0.58
1:B:3463:LEU:HD13	1:B:4000:ASN:HB2	1.86	0.58
1:A:252:VAL:HG21	1:A:265:TYR:HB2	1.85	0.58
1:A:617:PRO:O	1:A:620:PHE:N	2.36	0.58
1:A:1074:LYS:O	1:A:1075:ARG:HG2	2.04	0.58
1:A:2920:VAL:HB	1:A:3036:TYR:OH	2.04	0.58
1:A:3454:LEU:O	1:A:3494:GLN:NE2	2.34	0.58
1:A:3464:LYS:O	1:A:3468:LEU:HG	2.03	0.58
1:A:3525:TYR:O	1:A:3529:ILE:HB	2.03	0.58
1:A:3631:LYS:HE2	1:A:3634:GLN:HG2	1.86	0.58
1:A:3879:PRO:HA	1:A:3882:LEU:HB2	1.86	0.58
1:B:175:TYR:HE1	1:B:200:PHE:HB3	1.68	0.58
1:B:419:SER:O	1:B:422:LEU:HB2	2.04	0.58
1:B:1163:LEU:HA	1:B:1260:LEU:HD21	1.84	0.58
1:B:1606:ARG:HH11	1:B:1806:ARG:HB3	1.69	0.58
1:B:2167:PRO:HA	1:B:2171:LEU:HD13	1.86	0.58
1:A:352:VAL:HA	1:A:355:ASN:O	2.03	0.58
1:A:549:ALA:O	1:A:553:VAL:HG23	2.03	0.58
1:A:870:LEU:HD21	1:A:3129:LEU:HD11	1.86	0.58
1:A:2338:GLU:O	1:A:2338:GLU:HG2	2.03	0.58
1:A:3047:SER:O	1:A:3050:LYS:HG3	2.04	0.58
1:A:3322:ALA:O	1:A:3325:ASP:HB3	2.04	0.58
1:A:3772:ASN:O	1:A:3787:GLN:NE2	2.24	0.58
1:B:510:ALA:O	1:B:513:GLU:HB2	2.03	0.58
1:B:2040:MSE:HA	1:B:2043:PHE:CD1	2.38	0.58
1:B:2477:LEU:CB	1:B:2506:LEU:HD21	2.34	0.58
1:B:2481:HIS:O	1:B:2485:ARG:N	2.37	0.58
1:B:3571:PHE:O	1:B:3575:LEU:HB2	2.03	0.58
1:B:3974:MSE:HB3	1:B:3976:GLU:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:LEU:HD11	1:A:475:LEU:HD21	1.85	0.58
1:A:627:VAL:HG12	1:A:628:GLU:N	2.17	0.58
1:A:806:SER:O	1:A:809:THR:N	2.26	0.58
1:A:1010:LEU:HA	1:A:1013:ILE:CG1	2.30	0.58
1:A:1521:PHE:HB2	1:A:1589:ASN:OD1	2.04	0.58
1:A:2430:GLU:HG3	1:A:2465:PRO:HB3	1.86	0.58
1:A:2440:TYR:O	1:A:2443:MSE:HE2	2.04	0.58
1:B:669:LEU:O	1:B:671:SER:N	2.36	0.58
1:B:852:ARG:O	1:B:855:VAL:HB	2.04	0.58
1:B:1145:LEU:HB2	1:B:1149:LYS:HZ3	1.66	0.58
1:B:1883:ARG:HE	1:B:1923:PHE:HZ	1.50	0.58
1:B:3699:LEU:HB3	1:B:3718:ARG:HH12	1.69	0.58
1:A:488:ILE:O	1:A:612:LEU:HB2	2.04	0.57
1:A:852:ARG:O	1:A:855:VAL:HB	2.04	0.57
1:A:2349:LEU:O	1:A:2353:GLN:HG3	2.02	0.57
1:A:2440:TYR:OH	1:A:2455:LEU:HG	2.04	0.57
1:A:2474:TYR:HE2	1:A:2518:GLN:HB3	1.69	0.57
1:A:2993:PHE:O	1:A:2997:ALA:N	2.25	0.57
1:A:3451:LEU:HG	1:A:3486:GLU:OE1	2.04	0.57
1:A:3649:SER:HA	1:A:3652:LEU:HG	1.86	0.57
1:A:3855:TYR:HB3	1:A:4074:PHE:HZ	1.66	0.57
1:A:3944:HIS:CG	1:A:3949:ALA:HA	2.39	0.57
1:B:647:TYR:HE1	1:B:1389:VAL:HA	1.68	0.57
1:B:1810:PRO:O	1:B:1812:LEU:HG	2.03	0.57
1:B:2568:MSE:HG3	1:B:2569:SER:H	1.69	0.57
1:B:3104:GLN:HA	1:B:3107:ILE:HD12	1.86	0.57
1:B:3464:LYS:HE3	1:B:3468:LEU:HD21	1.86	0.57
1:B:3501:HIS:HA	1:B:4008:GLU:OE2	2.04	0.57
1:B:3981:TYR:CE1	1:B:4104:VAL:HB	2.39	0.57
1:A:1139:GLU:HG3	1:A:1175:HIS:NE2	2.18	0.57
1:A:1400:VAL:O	1:A:1404:LYS:HB2	2.04	0.57
1:A:1679:LEU:O	1:A:1683:LYS:HG3	2.04	0.57
1:A:2065:ARG:HD3	1:A:2100:LEU:HD11	1.86	0.57
1:A:2495:SER:O	1:A:2498:ILE:HB	2.04	0.57
1:A:2538:ARG:HH11	1:A:2565:MSE:CB	2.17	0.57
1:A:2782:ASP:HA	1:A:2786:LYS:CB	2.34	0.57
1:A:2950:LYS:HE2	1:A:4105:LYS:NZ	2.18	0.57
1:B:205:LYS:HA	1:B:208:MSE:HE3	1.86	0.57
1:B:241:ASP:HB3	1:B:282:PHE:CE2	2.39	0.57
1:B:571:SER:HB2	1:B:606:SER:H	1.68	0.57
1:B:781:ASP:OD2	1:B:862:LEU:HD21	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:966:PHE:O	1:B:969:LEU:HB3	2.03	0.57
1:B:986:PRO:O	1:B:989:MSE:N	2.37	0.57
1:B:997:ASN:HA	1:B:1042:LYS:HD3	1.86	0.57
1:B:1761:LEU:O	1:B:1895:LYS:HB2	2.04	0.57
1:B:2323:LEU:HD21	1:B:2345:VAL:HG21	1.86	0.57
1:B:2374:LEU:CD1	1:B:2377:ARG:HB2	2.34	0.57
1:B:2837:LEU:HD12	1:B:2867:ALA:HB3	1.86	0.57
1:A:75:SER:O	1:A:77:GLU:N	2.36	0.57
1:A:1952:ILE:HG23	1:A:1953:CYS:O	2.04	0.57
1:A:2286:PRO:HD3	1:A:2325:LEU:HD23	1.85	0.57
1:A:2809:PHE:HB3	1:A:2859:GLN:CD	2.24	0.57
1:A:3287:ARG:NH1	1:A:3331:GLY:HA3	2.19	0.57
1:A:3496:ILE:O	1:A:3498:TRP:N	2.37	0.57
1:A:3686:TRP:CZ3	1:A:3687:MSE:HG3	2.39	0.57
1:B:450:SER:O	1:B:454:GLN:HB2	2.03	0.57
1:B:2094:MSE:HE1	1:B:2143:ARG:HA	1.85	0.57
1:B:2366:LYS:NZ	2:S:101:UNK:HA	2.19	0.57
1:B:2927:ALA:HB2	1:B:2930:TYR:HD2	1.68	0.57
1:B:3181:ASP:HA	1:B:3184:THR:HG23	1.86	0.57
1:B:3496:ILE:HG23	1:B:3499:ILE:HD11	1.86	0.57
1:B:3871:PHE:HB3	1:B:4127:TRP:CD1	2.39	0.57
1:A:205:LYS:NZ	1:A:243:GLN:OE1	2.25	0.57
1:A:368:LEU:HA	1:A:372:PRO:HG2	1.86	0.57
1:A:756:PHE:O	1:A:759:GLY:N	2.36	0.57
1:A:871:LEU:HD21	1:A:3122:HIS:CE1	2.39	0.57
1:A:987:LEU:O	1:A:991:LEU:HD13	2.05	0.57
1:A:1063:LEU:HD13	1:A:1082:PHE:CE1	2.39	0.57
1:A:1606:ARG:HA	1:A:1806:ARG:HD3	1.87	0.57
1:A:1655:ILE:HG12	1:A:1677:SER:O	2.05	0.57
1:A:2562:LEU:O	1:A:2566:THR:HG22	2.04	0.57
1:A:2960:GLU:HG2	1:A:3252:PHE:CG	2.39	0.57
1:A:3034:PRO:O	1:A:3038:GLU:HB3	2.05	0.57
1:B:16:GLN:O	1:B:20:SER:OG	2.21	0.57
1:B:358:GLU:HA	1:B:1858:LEU:HD22	1.85	0.57
1:B:473:PRO:CA	1:B:476:ARG:HH22	2.12	0.57
1:B:886:TRP:HD1	1:B:889:GLU:N	2.02	0.57
1:B:1000:LYS:O	1:B:1003:SER:N	2.30	0.57
1:B:1090:ARG:HH22	1:B:1096:VAL:C	2.07	0.57
1:B:1270:PHE:CZ	1:B:1347:THR:HB	2.38	0.57
1:B:1923:PHE:CE2	1:B:1927:MSE:HE1	2.40	0.57
1:B:1976:LEU:HD13	1:B:2031:LEU:CD2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2085:MSE:O	1:B:2089:ASN:ND2	2.37	0.57
1:B:2886:GLN:OE1	1:B:2921:LEU:HB2	2.03	0.57
1:B:3174:ASP:H	1:B:3175:PRO:HD2	1.67	0.57
1:B:3568:ILE:O	1:B:3571:PHE:N	2.38	0.57
1:A:131:LEU:O	1:A:135:LEU:HG	2.05	0.57
1:A:373:CYS:O	1:A:423:TYR:OH	2.20	0.57
1:A:805:LEU:CD2	1:A:3125:ARG:NH1	2.68	0.57
1:A:2227:LYS:HZ1	1:A:2232:ARG:HB3	1.69	0.57
1:A:2503:LYS:O	1:A:2507:ILE:HB	2.04	0.57
1:A:4057:ALA:HB2	1:A:4090:ARG:O	2.04	0.57
1:B:575:ILE:HD13	1:B:603:ILE:HB	1.86	0.57
1:B:923:ASP:O	1:B:927:LYS:HE2	2.03	0.57
1:B:1238:GLN:HE22	1:B:1297:PHE:HD1	1.51	0.57
1:B:1632:TRP:HA	1:B:1635:LYS:HD2	1.85	0.57
1:B:2190:VAL:O	1:B:2193:ILE:HG22	2.04	0.57
1:B:2210:VAL:HG13	1:B:2211:LEU:H	1.70	0.57
1:B:2321:GLU:O	1:B:2324:GLY:N	2.36	0.57
1:B:2555:LEU:HB2	1:B:2809:PHE:CE1	2.40	0.57
1:B:3765:GLU:O	1:B:3768:PHE:HB2	2.05	0.57
1:B:3767:LEU:O	1:B:3771:MSE:HG3	2.04	0.57
1:A:409:GLN:HG3	1:A:413:PHE:CZ	2.39	0.57
1:A:414:LEU:HD22	1:A:442:GLN:HG2	1.85	0.57
1:A:704:PHE:HA	1:A:707:PHE:CD1	2.39	0.57
1:A:797:ASP:HA	1:A:800:LEU:HD12	1.86	0.57
1:A:2913:LYS:HG3	1:A:2914:ALA:N	2.19	0.57
1:A:4027:TRP:HB3	1:A:4031:ILE:HD11	1.85	0.57
1:B:610:ALA:HA	1:B:613:HIS:ND1	2.19	0.57
1:B:1715:GLU:HA	1:B:1718:ILE:HB	1.85	0.57
1:B:2562:LEU:O	1:B:2566:THR:HG22	2.04	0.57
1:B:3817:LEU:HA	1:B:3820:MSE:HE3	1.87	0.57
1:A:737:PRO:O	1:A:741:ILE:HG12	2.04	0.57
1:A:968:VAL:CG2	1:A:971:ARG:HD3	2.33	0.57
1:A:2157:PHE:CZ	1:A:2203:THR:HB	2.40	0.57
1:A:2196:TRP:CG	1:A:2199:LEU:HD11	2.39	0.57
1:A:2349:LEU:HD23	1:A:2364:LEU:HD22	1.86	0.57
1:B:262:LEU:HD22	1:B:306:VAL:HG12	1.86	0.57
1:B:361:ILE:HD13	1:B:1858:LEU:HD23	1.86	0.57
1:B:680:ILE:HG12	1:B:701:TYR:HD2	1.69	0.57
1:B:798:GLY:HA2	1:B:873:VAL:HG11	1.87	0.57
1:B:969:LEU:O	1:B:973:ALA:HB3	2.05	0.57
1:B:1681:ASP:HB2	1:B:1717:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2216:LEU:HD13	1:B:2249:LEU:HD21	1.85	0.57
1:B:2289:ASP:O	1:B:2292:CYS:N	2.24	0.57
1:A:182:GLY:O	1:A:233:ASN:ND2	2.36	0.57
1:A:257:ARG:H	1:A:258:PRO:CD	2.17	0.57
1:A:567:GLU:HB3	1:A:606:SER:HB3	1.87	0.57
1:A:585:ILE:HG22	1:A:586:GLN:H	1.68	0.57
1:A:1982:ILE:O	1:A:1986:ARG:HB2	2.04	0.57
1:A:3907:SER:CB	1:A:3937:VAL:H	2.17	0.57
1:B:990:GLN:HG3	1:B:2776:ARG:NH1	2.19	0.57
1:B:1216:GLY:HA3	1:B:1271:ILE:CG2	2.35	0.57
1:B:2319:ALA:O	1:B:2323:LEU:HD12	2.04	0.57
1:B:2801:ASP:HB2	1:B:2802:PRO:CD	2.35	0.57
1:B:3267:LYS:N	1:B:3271:ASP:OD2	2.37	0.57
1:B:3771:MSE:HE1	1:B:3917:ILE:HG21	1.85	0.57
1:A:576:VAL:HG13	1:A:601:TRP:CE3	2.40	0.57
1:A:1635:LYS:O	1:A:1639:LEU:HG	2.05	0.57
1:A:1809:ASP:O	1:A:1815:THR:HG22	2.05	0.57
1:A:1989:ASN:HB3	1:A:2040:MSE:HB3	1.86	0.57
1:A:2555:LEU:HD13	1:A:2809:PHE:CZ	2.39	0.57
1:A:2883:SER:O	1:A:2885:GLN:N	2.38	0.57
1:A:3498:TRP:HB2	1:A:3501:HIS:HB2	1.86	0.57
1:A:3631:LYS:O	1:A:3631:LYS:HD3	2.05	0.57
1:A:3687:MSE:C	1:A:3689:ASP:H	2.06	0.57
1:A:3839:TYR:HE1	1:A:3867:THR:HB	1.70	0.57
1:B:527:TYR:CE1	1:B:531:PHE:HZ	2.21	0.57
1:B:752:LEU:HD13	1:B:776:TRP:CZ3	2.40	0.57
1:B:1274:ARG:O	1:B:1279:LEU:N	2.28	0.57
1:B:1350:ASN:ND2	1:B:1404:LYS:HG2	2.18	0.57
1:B:1494:GLY:HA2	1:B:1497:ARG:HG3	1.87	0.57
1:B:2194:LEU:HD13	1:B:2244:CYS:SG	2.45	0.57
1:B:2267:SER:HB2	1:B:2269:ASP:OD2	2.05	0.57
1:B:2927:ALA:CB	1:B:2930:TYR:HD2	2.18	0.57
1:B:3903:HIS:O	1:B:3907:SER:OG	2.15	0.57
1:A:283:SER:HA	1:A:286:LEU:HG	1.85	0.57
1:A:575:ILE:HD11	1:A:579:LEU:HD13	1.87	0.57
1:A:891:ARG:HB2	1:A:905:ILE:HA	1.86	0.57
1:A:1006:THR:O	1:A:1010:LEU:HG	2.05	0.57
1:A:1146:ASN:O	1:A:1150:LYS:HB3	2.05	0.57
1:A:3167:ARG:HG2	1:A:3186:ARG:CZ	2.35	0.57
1:A:3529:ILE:HG23	1:A:3532:PRO:HD2	1.86	0.57
1:A:3980:MSE:HB2	1:A:3983:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:ARG:HD3	1:B:82:ARG:HD3	1.87	0.57
1:B:154:SER:HA	1:B:181:LEU:HD22	1.87	0.57
1:B:385:TYR:HD1	1:B:420:VAL:CG1	2.18	0.57
1:B:460:ALA:O	1:B:464:VAL:HG12	2.05	0.57
1:B:566:ASP:O	1:B:570:LYS:NZ	2.38	0.57
1:B:2019:SER:O	1:B:2023:SER:OG	2.10	0.57
1:A:175:TYR:CE1	1:A:200:PHE:HB3	2.39	0.56
1:A:2324:GLY:HA2	1:A:2371:PHE:HB3	1.87	0.56
1:A:2911:ARG:HG2	1:A:2914:ALA:HB3	1.87	0.56
1:A:2930:TYR:HH	1:A:3902:SER:HG	1.48	0.56
1:A:3459:ASN:O	1:A:3462:ARG:HG2	2.05	0.56
1:A:3483:MSE:C	1:A:3516:HIS:HE2	2.08	0.56
1:B:144:MSE:HE2	1:B:144:MSE:HA	1.86	0.56
1:B:647:TYR:O	1:B:650:SER:OG	2.12	0.56
1:B:909:VAL:CG1	1:B:913:ARG:HH11	2.05	0.56
1:B:1007:VAL:O	1:B:1011:GLU:HB3	2.04	0.56
1:B:1293:ALA:HA	1:B:1296:PHE:CD2	2.40	0.56
1:B:2359:LYS:HA	1:B:2362:VAL:HG13	1.87	0.56
1:B:2481:HIS:CE1	1:B:2485:ARG:NH1	2.65	0.56
1:B:3167:ARG:HG2	1:B:3186:ARG:CZ	2.35	0.56
1:B:3238:MSE:O	1:B:3242:MSE:HG3	2.05	0.56
1:B:3629:ARG:HH22	1:B:3638:LYS:CE	2.18	0.56
1:A:488:ILE:HG13	1:A:612:LEU:HD12	1.86	0.56
1:A:1042:LYS:NZ	1:A:1044:ILE:HD12	2.20	0.56
1:A:1343:GLU:O	1:A:1347:THR:CB	2.52	0.56
1:A:2193:ILE:HA	1:A:2196:TRP:CE2	2.39	0.56
1:A:3493:TRP:CZ2	1:A:3496:ILE:HG21	2.40	0.56
1:A:4005:PHE:O	1:A:4009:PRO:HD3	2.05	0.56
1:B:1475:LEU:O	1:B:1479:VAL:HG23	2.04	0.56
1:B:2452:ARG:HE	1:B:2498:ILE:HD11	1.71	0.56
1:B:2877:SER:C	1:B:2879:GLY:H	2.08	0.56
1:B:2967:GLU:O	1:B:2971:GLN:NE2	2.38	0.56
1:B:3345:PRO:O	1:B:3347:CYS:N	2.34	0.56
1:B:3448:GLU:HG3	1:B:3449:LYS:HG3	1.87	0.56
1:B:3530:VAL:CG1	1:B:3702:PRO:HD3	2.31	0.56
1:A:205:LYS:HA	1:A:208:MSE:HE3	1.86	0.56
1:A:369:PHE:CE1	1:A:419:SER:HB2	2.40	0.56
1:A:722:LYS:HD2	1:A:730:LEU:HB2	1.88	0.56
1:A:993:HIS:HB2	1:A:1038:LYS:HG2	1.86	0.56
1:A:1491:ILE:HG22	1:A:1497:ARG:HH22	1.70	0.56
1:A:1698:PHE:HD1	1:A:1699:PHE:N	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1722:PHE:CE2	1:A:1754:GLN:HG2	2.39	0.56
1:A:2086:ASP:HB3	1:A:2090:ARG:NH2	2.20	0.56
1:A:2808:LEU:O	1:A:2812:LEU:HB2	2.06	0.56
1:A:3179:TRP:CH2	1:A:3258:LEU:HG	2.39	0.56
1:A:3425:ARG:HH12	1:A:3999:THR:HG22	1.70	0.56
1:A:3907:SER:O	1:A:3911:ILE:HG23	2.05	0.56
1:A:4063:GLU:HA	1:A:4066:LEU:HD22	1.87	0.56
1:B:53:LEU:O	1:B:56:SER:OG	2.22	0.56
1:B:66:LEU:CD2	1:B:89:LEU:HD11	2.34	0.56
1:B:242:PRO:HD3	1:B:282:PHE:CE2	2.41	0.56
1:B:265:TYR:O	1:B:268:PRO:HD2	2.05	0.56
1:B:368:LEU:HD22	1:B:420:VAL:HG22	1.87	0.56
1:B:634:LEU:HD22	1:B:667:TYR:CD1	2.40	0.56
1:B:642:PHE:CE2	1:B:710:PHE:HE2	2.23	0.56
1:B:657:SER:O	1:B:661:PRO:HD3	2.04	0.56
1:B:893:SER:OG	1:B:906:PHE:HD2	1.88	0.56
1:B:1046:PRO:O	1:B:1049:GLN:HB3	2.05	0.56
1:B:1080:LEU:HB3	1:B:1111:LEU:CD2	2.36	0.56
1:B:1115:HIS:O	1:B:1118:GLU:C	2.44	0.56
1:B:1582:LEU:HD13	1:B:1600:MSE:SE	2.55	0.56
1:B:1987:ARG:O	1:B:1989:ASN:N	2.38	0.56
1:B:2157:PHE:CE2	1:B:2199:LEU:HD13	2.40	0.56
1:B:2364:LEU:O	1:B:2368:THR:OG1	2.11	0.56
1:B:2420:PHE:CE1	1:B:2439:ILE:HG21	2.40	0.56
1:B:2485:ARG:NH1	1:B:2530:ARG:CZ	2.68	0.56
1:B:2945:SER:O	1:B:2949:THR:N	2.36	0.56
1:B:3420:CYS:O	1:B:3423:GLN:HB3	2.05	0.56
1:B:3791:TYR:OH	1:B:3942:PHE:HE2	1.88	0.56
1:B:4046:TYR:CE2	1:B:4049:ARG:NH2	2.74	0.56
1:A:852:ARG:NH1	1:A:3111:MSE:HE2	2.21	0.56
1:A:3762:GLN:HE22	1:A:3763:ARG:HH11	1.53	0.56
1:B:737:PRO:O	1:B:741:ILE:HG13	2.06	0.56
1:B:778:ILE:HG13	1:B:858:MSE:SE	2.56	0.56
1:B:1000:LYS:O	1:B:1002:GLU:N	2.39	0.56
1:B:3279:SER:O	1:B:3283:LEU:HB2	2.05	0.56
1:B:3397:GLN:OE1	1:B:3398:PRO:HD2	2.06	0.56
1:A:164:LYS:HB3	1:A:166:ILE:HG13	1.88	0.56
1:A:381:VAL:HB	1:A:384:MSE:HG2	1.88	0.56
1:A:484:HIS:NE2	1:A:616:LYS:HE3	2.20	0.56
1:A:1516:GLU:O	1:A:1519:PHE:N	2.38	0.56
1:A:2080:VAL:HG12	1:A:2081:LEU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2236:GLU:HA	1:A:2239:LYS:HB3	1.88	0.56
1:A:2538:ARG:NH1	1:A:2565:MSE:HB3	2.20	0.56
1:A:3448:GLU:OE2	1:A:3449:LYS:HE3	2.04	0.56
1:A:3751:LEU:O	1:A:3802:LEU:HG	2.05	0.56
1:B:797:ASP:HB3	1:B:870:LEU:HB3	1.88	0.56
1:B:909:VAL:HG22	1:B:2807:GLN:HG3	1.88	0.56
1:B:926:THR:O	1:B:930:ALA:CB	2.54	0.56
1:B:931:CYS:SG	1:B:932:GLU:N	2.78	0.56
1:B:964:ARG:HH12	1:B:968:VAL:HB	1.70	0.56
1:B:1017:ILE:HG23	1:B:1018:VAL:HG13	1.87	0.56
1:B:1374:GLN:O	1:B:1378:GLU:N	2.39	0.56
1:B:2265:PRO:HD3	1:B:2309:PHE:CZ	2.41	0.56
1:B:3277:VAL:HB	1:B:3321:LEU:HD21	1.88	0.56
1:A:168:ASP:O	1:A:170:VAL:N	2.36	0.56
1:A:361:ILE:HG12	1:A:1858:LEU:CD2	2.36	0.56
1:A:654:ILE:HG13	1:A:655:LEU:H	1.70	0.56
1:A:1032:CYS:O	1:A:1035:GLU:N	2.37	0.56
1:A:1148:ALA:O	1:A:1152:ARG:HG3	2.06	0.56
1:A:1598:ASN:O	1:A:1602:ASP:HB3	2.05	0.56
1:A:1861:SER:O	1:A:1864:ASP:HB3	2.06	0.56
1:A:1934:LEU:HD12	1:A:1937:ARG:H	1.70	0.56
1:A:2799:GLN:HB3	1:A:2808:LEU:HD11	1.86	0.56
1:A:2879:GLY:HA2	1:A:2886:GLN:CG	2.35	0.56
1:A:3960:PRO:HG2	1:A:3961:PHE:CD2	2.41	0.56
1:B:313:LEU:HD11	1:B:359:LEU:HD21	1.88	0.56
1:B:1090:ARG:NH2	1:B:1097:GLU:HA	2.21	0.56
1:B:1431:LEU:O	1:B:1434:VAL:HG12	2.05	0.56
1:B:2116:ASP:HB3	1:B:2119:PRO:HD2	1.88	0.56
1:A:381:VAL:HB	1:A:384:MSE:CG	2.36	0.56
1:A:395:MSE:SE	1:A:413:PHE:CE2	3.09	0.56
1:A:3575:LEU:C	1:A:3686:TRP:HH2	2.09	0.56
1:A:3590:ASN:OD1	1:A:3593:ARG:NH2	2.36	0.56
1:B:993:HIS:CD2	1:B:2776:ARG:HD3	2.39	0.56
1:B:1128:CYS:HA	1:B:1131:ILE:HG23	1.88	0.56
1:B:1587:VAL:HB	1:B:1643:MSE:HE2	1.86	0.56
1:B:2330:VAL:HG21	1:B:2338:GLU:CB	2.29	0.56
1:B:2450:GLU:O	1:B:2454:LEU:HG	2.06	0.56
1:B:2843:PHE:CE2	1:B:2853:PRO:HG3	2.41	0.56
1:B:3141:PHE:HZ	1:B:3192:LYS:HB2	1.71	0.56
1:B:3331:GLY:O	1:B:3335:ARG:HD2	2.05	0.56
1:B:3821:SER:OG	1:B:3826:ALA:O	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:LYS:O	1:A:159:GLU:HG3	2.05	0.56
1:A:294:PHE:O	1:A:298:LEU:HG	2.05	0.56
1:A:1077:GLY:HA2	1:A:1080:LEU:HD21	1.86	0.56
1:A:2073:ASP:HB3	1:A:2091:HIS:CE1	2.41	0.56
1:A:2093:CYS:HB3	1:A:2143:ARG:HH21	1.71	0.56
1:A:2552:VAL:CG2	1:A:2852:PRO:HG2	2.31	0.56
1:A:3705:TYR:OH	1:A:3765:GLU:OE1	2.20	0.56
1:B:886:TRP:CZ2	1:B:892:LEU:HD13	2.41	0.56
1:B:892:LEU:HB2	1:B:907:LEU:HD22	1.87	0.56
1:B:1069:HIS:O	1:B:3741:ARG:HD3	2.05	0.56
1:B:2810:SER:HA	1:B:2813:PHE:CD2	2.41	0.56
1:B:2858:ILE:HD12	1:B:3894:PRO:HG2	1.86	0.56
1:B:3090:TYR:HB3	1:B:3095:ASP:OD2	2.05	0.56
1:B:3103:ILE:HD13	1:B:3139:GLN:OE1	2.06	0.56
1:B:3593:ARG:HD2	1:B:3660:ASN:O	2.04	0.56
1:B:3847:SER:HA	1:B:3857:LEU:HD13	1.86	0.56
1:B:3875:GLU:HG2	1:B:4127:TRP:HB3	1.88	0.56
1:B:3908:HIS:CD2	1:B:3912:CYS:SG	2.99	0.56
1:A:179:GLY:HA3	1:A:229:SER:HB3	1.86	0.56
1:A:855:VAL:O	1:A:859:LEU:HG	2.05	0.56
1:A:2171:LEU:HG	1:A:2177:ASN:ND2	2.21	0.56
1:A:2382:VAL:CG2	1:A:2404:ARG:HG3	2.36	0.56
1:A:3954:PRO:HG2	1:A:4027:TRP:HA	1.88	0.56
1:B:1348:LEU:HD23	1:B:1352:SER:HB3	1.87	0.56
1:B:1799:GLU:HA	1:B:1802:TYR:CB	2.36	0.56
1:B:4125:GLU:HA	1:B:4127:TRP:HE3	1.70	0.56
1:A:131:LEU:HD21	1:A:170:VAL:HG23	1.86	0.56
1:A:2430:GLU:HG3	1:A:2465:PRO:CB	2.36	0.56
1:A:2869:LEU:HB3	1:A:2893:LEU:HG	1.88	0.56
1:B:756:PHE:O	1:B:760:LEU:HG	2.06	0.56
1:B:759:GLY:HA3	1:B:773:LEU:CD1	2.36	0.56
1:B:964:ARG:NH1	1:B:968:VAL:HB	2.21	0.56
1:B:978:GLN:H	1:B:981:ARG:HD3	1.70	0.56
1:B:1090:ARG:NH2	1:B:1096:VAL:O	2.38	0.56
1:B:1131:ILE:HG12	1:B:1132:ASP:N	2.19	0.56
1:B:1909:ASN:ND2	1:B:1951:VAL:O	2.38	0.56
1:B:2886:GLN:CG	1:B:2887:PRO:HD3	2.36	0.56
1:A:759:GLY:HA3	1:A:773:LEU:HD11	1.88	0.55
1:A:2842:ARG:O	1:A:2846:THR:HG23	2.06	0.55
1:B:176:GLU:HG2	1:B:225:LYS:CD	2.36	0.55
1:B:1805:PHE:HA	1:B:1808:ASP:OD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1977:ILE:C	1:B:1979:GLU:H	2.02	0.55
1:B:2065:ARG:NH1	1:B:2097:LEU:HD21	2.21	0.55
1:B:2936:TYR:CE1	1:B:2940:ARG:HB2	2.40	0.55
1:B:3781:CYS:HA	1:B:3786:LEU:HD12	1.87	0.55
1:B:3900:LEU:HD11	1:B:3934:THR:O	2.05	0.55
1:B:3962:ARG:HB2	1:B:3962:ARG:CZ	2.35	0.55
1:A:714:VAL:HG12	1:A:715:ALA:N	2.21	0.55
1:A:2186:VAL:O	1:A:2190:VAL:HG13	2.06	0.55
1:A:2447:LYS:HA	1:A:2451:LEU:HD12	1.89	0.55
1:A:2918:PRO:HA	1:A:2921:LEU:HG	1.88	0.55
1:A:3584:LEU:O	1:A:3588:TRP:CB	2.55	0.55
1:B:392:CYS:SG	1:B:438:LEU:HD21	2.46	0.55
1:B:411:PRO:HG3	1:B:442:GLN:HE22	1.71	0.55
1:B:2869:LEU:HG	1:B:2893:LEU:HD12	1.88	0.55
1:B:3989:ARG:HH21	1:B:4100:GLU:CD	2.09	0.55
1:A:805:LEU:HD22	1:A:3125:ARG:NH1	2.20	0.55
1:A:913:ARG:HA	1:A:916:GLU:CD	2.27	0.55
1:A:989:MSE:O	1:A:992:ILE:HG13	2.06	0.55
1:A:1231:GLN:H	1:A:1232:PRO:CD	2.20	0.55
1:A:1952:ILE:HG12	1:A:1953:CYS:N	2.21	0.55
1:A:2837:LEU:HD12	1:A:2867:ALA:HB3	1.89	0.55
1:A:3495:PHE:HZ	1:A:3521:ILE:HG13	1.71	0.55
1:A:3499:ILE:O	1:A:3503:VAL:HG12	2.07	0.55
1:A:4031:ILE:O	1:A:4035:GLU:N	2.37	0.55
1:A:4100:GLU:HG2	1:A:4101:GLU:H	1.71	0.55
1:B:658:THR:HA	1:B:733:LEU:CD2	2.32	0.55
1:B:968:VAL:HG22	1:B:972:LEU:HD23	1.87	0.55
1:B:1292:LYS:O	1:B:1295:ALA:HB3	2.05	0.55
1:B:1583:MSE:HE3	1:B:1643:MSE:HB2	1.87	0.55
1:B:1726:SER:HB2	1:B:1866:GLN:HE22	1.71	0.55
1:B:1733:THR:OG1	1:B:1877:LEU:HD13	2.06	0.55
1:B:2026:SER:HB3	2:S:207:UNK:CB	2.37	0.55
1:B:2285:LEU:O	1:B:2288:TYR:N	2.39	0.55
1:B:2378:PHE:O	1:B:2382:VAL:HG22	2.06	0.55
1:A:204:LEU:HD13	1:A:223:CYS:HB2	1.87	0.55
1:A:960:GLN:HG2	1:A:961:LEU:HD22	1.89	0.55
1:A:2222:HIS:O	1:A:2226:PRO:HD2	2.07	0.55
1:A:3144:PHE:CD1	1:A:3160:LEU:HD11	2.42	0.55
1:B:760:LEU:HD13	1:B:802:THR:OG1	2.06	0.55
1:B:985:GLU:O	1:B:988:VAL:HG22	2.06	0.55
1:B:1442:GLN:HE22	1:B:1495:ASP:HB3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3106:GLY:HA2	1:B:3109:SER:HB2	1.88	0.55
1:B:3283:LEU:HG	1:B:3300:VAL:HG21	1.89	0.55
1:B:3966:GLN:H	1:B:4128:MSE:C	2.10	0.55
1:B:4125:GLU:HA	1:B:4127:TRP:CE3	2.41	0.55
1:A:1636:ASP:O	1:A:1640:GLU:HB2	2.06	0.55
1:A:1641:THR:O	1:A:1645:VAL:HG23	2.07	0.55
1:A:1897:ASN:HB3	1:A:1901:HIS:HE1	1.71	0.55
1:A:2210:VAL:HG13	1:A:2211:LEU:H	1.71	0.55
1:A:2236:GLU:HG2	2:K:110:UNK:CB	2.36	0.55
1:A:2575:PRO:HD2	1:A:2785:ILE:HD11	1.87	0.55
1:A:2890:ILE:HD12	1:A:2918:PRO:HB3	1.87	0.55
1:A:3994:ASP:OD2	1:A:3997:LEU:HD13	2.06	0.55
1:B:922:SER:C	1:B:924:ARG:H	2.09	0.55
1:B:2031:LEU:C	1:B:2033:ASP:H	2.07	0.55
1:B:2375:ALA:O	1:B:2379:MSE:HB2	2.04	0.55
1:B:2542:LEU:O	1:B:2545:LEU:N	2.38	0.55
1:B:2957:LEU:HB3	1:B:3989:ARG:NH2	2.22	0.55
1:B:3282:ARG:HB2	1:B:3282:ARG:HH11	1.70	0.55
1:B:4066:LEU:HD11	1:B:4078:VAL:HG11	1.88	0.55
1:A:543:SER:O	1:A:545:LEU:N	2.34	0.55
1:A:793:LEU:HA	1:A:796:LEU:CG	2.33	0.55
1:A:1567:ILE:HG12	1:A:1571:LEU:HD11	1.87	0.55
1:A:2145:PHE:HD1	1:A:2188:GLU:HG2	1.71	0.55
1:A:2556:SER:O	1:A:2559:THR:OG1	2.25	0.55
1:A:3722:PHE:CD1	1:A:3740:ILE:HA	2.41	0.55
1:A:3981:TYR:OH	1:A:4101:GLU:HB3	2.07	0.55
1:B:1678:LEU:O	1:B:1682:THR:HG22	2.07	0.55
1:B:1976:LEU:HD13	1:B:2031:LEU:HD23	1.89	0.55
1:B:2099:ALA:O	1:B:2102:LYS:HB2	2.06	0.55
1:B:2239:LYS:HG3	1:B:2279:ILE:HD12	1.89	0.55
1:B:2289:ASP:O	1:B:2291:GLN:N	2.39	0.55
1:B:2806:LYS:HZ2	1:B:2858:ILE:HG13	1.71	0.55
1:A:1069:HIS:O	1:A:3741:ARG:HD3	2.07	0.55
1:A:1392:MSE:HA	1:A:1395:LEU:HB3	1.89	0.55
1:A:1431:LEU:O	1:A:1434:VAL:HG12	2.07	0.55
1:A:1946:ASN:HA	1:A:1949:ILE:HG22	1.89	0.55
1:A:1982:ILE:HG23	1:A:1986:ARG:HE	1.71	0.55
1:A:2271:SER:OG	1:A:2272:VAL:N	2.40	0.55
1:A:3499:ILE:CG2	1:A:3535:ILE:HG21	2.36	0.55
1:B:279:ALA:HA	1:B:282:PHE:CE2	2.41	0.55
1:B:629:PHE:CZ	1:B:666:PHE:CD1	2.92	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:706:LEU:HB3	1:B:710:PHE:CZ	2.42	0.55
1:B:776:TRP:CE2	1:B:780:ILE:HD12	2.41	0.55
1:B:1011:GLU:OE2	1:B:1062:ARG:CZ	2.55	0.55
1:B:1102:GLU:HA	1:B:1150:LYS:NZ	2.22	0.55
1:B:2254:ARG:HB2	1:B:2295:GLN:OE1	2.06	0.55
1:B:2895:GLU:O	1:B:2899:ARG:NH2	2.40	0.55
1:B:3578:LEU:HB3	1:B:3579:SER:HA	1.89	0.55
1:A:446:PHE:HD1	1:A:446:PHE:N	2.03	0.55
1:A:446:PHE:CZ	1:A:530:LEU:HB3	2.41	0.55
1:A:743:LEU:HD21	1:A:784:VAL:HG21	1.89	0.55
1:A:1016:GLY:O	1:A:1019:ASP:HB2	2.05	0.55
1:A:1083:ASN:HD21	1:A:1104:LEU:HD21	1.71	0.55
1:A:1400:VAL:O	1:A:1404:LYS:CB	2.55	0.55
1:A:1606:ARG:O	1:A:1806:ARG:NH1	2.39	0.55
1:A:1880:MSE:O	1:A:1883:ARG:N	2.39	0.55
1:A:1918:LEU:HD11	1:A:1957:ASN:HB3	1.89	0.55
1:A:2098:THR:HG22	1:A:2146:LEU:HD13	1.89	0.55
1:A:2410:GLU:HA	1:A:2413:PHE:CZ	2.41	0.55
1:A:2957:LEU:HD11	1:A:3985:VAL:HG11	1.87	0.55
1:A:3424:LEU:HD13	1:A:3472:ILE:HD11	1.87	0.55
1:A:3472:ILE:HG22	1:A:3473:GLU:H	1.71	0.55
1:A:3676:PRO:HG2	1:A:3677:PRO:HD3	1.89	0.55
1:A:3722:PHE:CE1	1:A:3740:ILE:HG12	2.34	0.55
1:B:568:PHE:O	1:B:571:SER:N	2.39	0.55
1:B:612:LEU:CD2	1:B:1800:SER:HB3	2.36	0.55
1:B:612:LEU:HD12	1:B:613:HIS:N	2.22	0.55
1:B:1424:THR:OG1	1:B:1425:ALA:N	2.40	0.55
1:B:1867:ILE:HG23	1:B:1871:MSE:HE3	1.89	0.55
1:B:2157:PHE:CE1	1:B:2203:THR:HB	2.42	0.55
1:B:2929:LEU:HD22	1:B:3983:ILE:HG12	1.89	0.55
1:B:3592:VAL:HG22	1:B:3609:MSE:SE	2.57	0.55
1:B:3791:TYR:HH	1:B:3942:PHE:HE2	1.54	0.55
1:B:3964:THR:HB	1:B:4128:MSE:O	2.06	0.55
1:A:892:LEU:HD11	1:A:958:MSE:HB2	1.87	0.55
1:A:1335:CYS:HA	1:A:1338:VAL:HG12	1.89	0.55
1:A:1423:ILE:O	1:A:1427:SER:OG	2.20	0.55
1:A:1573:LYS:O	1:A:1576:ASP:HB3	2.07	0.55
1:A:1909:ASN:O	1:A:1912:THR:HG23	2.07	0.55
1:A:2789:SER:O	1:A:2793:PRO:HD3	2.07	0.55
1:A:2878:ALA:O	1:A:2886:GLN:HB3	2.07	0.55
1:A:3487:ILE:HA	1:A:3490:VAL:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3901:ARG:HG2	1:A:3901:ARG:HH11	1.70	0.55
1:A:3981:TYR:HE1	1:A:4105:LYS:N	2.05	0.55
1:B:1087:ARG:HD3	1:B:1134:LEU:HD22	1.89	0.55
1:B:1167:ASP:O	1:B:1171:TRP:HB2	2.06	0.55
1:B:1561:SER:HA	1:B:1564:SER:HB2	1.89	0.55
1:B:2088:LEU:HD21	1:B:2095:ALA:HB2	1.89	0.55
1:B:2190:VAL:HA	1:B:2193:ILE:HG22	1.88	0.55
1:B:3435:ASP:O	1:B:3439:LEU:HB2	2.06	0.55
1:A:385:TYR:OH	1:A:424:LEU:HD21	2.07	0.55
1:A:508:HIS:CD2	1:A:725:LEU:HD22	2.42	0.55
1:A:1217:VAL:O	1:A:1221:ILE:HG13	2.07	0.55
1:A:1344:PHE:CE1	1:A:1348:LEU:HG	2.42	0.55
1:A:1729:PHE:HZ	1:A:1870:LYS:HG3	1.67	0.55
1:A:2046:SER:HB2	1:A:2096:PRO:HG2	1.89	0.55
1:A:2074:PRO:O	1:A:2076:VAL:N	2.40	0.55
1:A:2167:PRO:CA	1:A:2171:LEU:HB2	2.36	0.55
1:A:2951:GLN:OE1	1:A:2972:TYR:OH	2.18	0.55
1:A:3614:TYR:O	1:A:3618:GLY:N	2.29	0.55
1:A:3778:ASP:OD2	1:A:3781:CYS:N	2.40	0.55
1:A:3816:LEU:O	1:A:3820:MSE:HB3	2.07	0.55
1:A:4070:LYS:H	1:A:4074:PHE:HD2	1.55	0.55
1:B:174:VAL:HG12	1:B:178:LEU:HD11	1.87	0.55
1:B:431:TYR:HA	1:B:434:VAL:CG1	2.36	0.55
1:B:756:PHE:O	1:B:759:GLY:N	2.40	0.55
1:B:1346:THR:HG21	1:B:1401:ASN:CB	2.35	0.55
1:B:2387:PRO:HA	1:B:2390:HIS:HB3	1.88	0.55
1:B:2957:LEU:HD21	1:B:4101:GLU:CD	2.27	0.55
1:B:3631:LYS:HA	1:B:3634:GLN:CB	2.37	0.55
1:B:3806:LEU:O	1:B:3809:THR:HG22	2.07	0.55
1:B:3915:HIS:O	1:B:3918:LEU:N	2.40	0.55
1:A:86:LEU:HD13	1:A:134:LEU:HD21	1.88	0.54
1:A:220:LEU:O	1:A:224:LEU:HG	2.06	0.54
1:A:752:LEU:HA	1:A:755:ALA:HB3	1.88	0.54
1:A:1007:VAL:O	1:A:1011:GLU:HB3	2.07	0.54
1:A:1080:LEU:HD22	1:A:1127:CYS:HB2	1.87	0.54
1:A:1253:THR:HA	1:A:1257:LEU:HD12	1.89	0.54
1:A:2145:PHE:CD1	1:A:2188:GLU:HG2	2.41	0.54
1:A:3699:LEU:HG	1:A:3701:ILE:HG12	1.88	0.54
1:B:114:VAL:HG11	1:B:130:LEU:HD11	1.90	0.54
1:B:170:VAL:HG23	1:B:173:LYS:NZ	2.21	0.54
1:B:358:GLU:N	1:B:361:ILE:HG23	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:454:GLN:HG3	1:B:533:HIS:CE1	2.40	0.54
1:B:784:VAL:O	1:B:787:PRO:HD2	2.07	0.54
1:B:1927:MSE:HG2	1:B:1941:HIS:CD2	2.42	0.54
1:B:2213:ASN:HB2	1:B:2250:SER:HB2	1.90	0.54
1:B:2793:PRO:O	1:B:2797:VAL:HG22	2.05	0.54
1:B:2944:THR:HG21	1:B:2983:ASP:OD2	2.07	0.54
1:B:3872:ARG:NH1	1:B:3965:ARG:NH1	2.54	0.54
1:A:1008:ALA:HA	1:A:1011:GLU:OE1	2.07	0.54
1:A:1240:THR:HA	1:A:1243:TYR:HD2	1.72	0.54
1:A:3122:HIS:O	1:A:3125:ARG:N	2.40	0.54
1:B:197:PHE:CE2	1:B:230:LEU:HD22	2.42	0.54
1:B:356:ASN:OD1	1:B:1859:ASN:HB2	2.06	0.54
1:B:1276:VAL:HG13	1:B:1358:LEU:HD12	1.88	0.54
1:B:1378:GLU:HB3	1:B:1379:PRO:HD3	1.89	0.54
1:B:1636:ASP:O	1:B:1640:GLU:HB2	2.07	0.54
1:B:1682:THR:HB	1:B:1724:MSE:SE	2.57	0.54
1:B:1797:LEU:HD13	1:B:1805:PHE:CE2	2.41	0.54
1:B:2224:PHE:HB3	1:B:2272:VAL:CG1	2.38	0.54
1:B:2304:VAL:O	1:B:2348:GLN:NE2	2.40	0.54
1:B:2352:HIS:CG	1:B:2364:LEU:HD21	2.42	0.54
1:B:3493:TRP:CE3	1:B:3713:PRO:HB3	2.39	0.54
1:B:3704:GLN:NE2	1:B:3796:MSE:SE	2.90	0.54
1:B:3876:SER:O	1:B:3879:PRO:HD2	2.07	0.54
1:A:245:SER:HB2	1:A:272:LEU:HD11	1.89	0.54
1:A:887:ASP:O	1:A:3889:ARG:HG2	2.07	0.54
1:A:1259:LEU:HG	1:A:1337:VAL:HG22	1.90	0.54
1:A:1279:LEU:HG	1:A:1292:LYS:HZ3	1.72	0.54
1:A:1363:LEU:C	1:A:1365:ASN:H	2.11	0.54
1:A:1675:TYR:CZ	1:A:1679:LEU:HD11	2.42	0.54
1:A:2040:MSE:HA	1:A:2043:PHE:HD1	1.73	0.54
1:A:2056:SER:HA	1:A:2061:PRO:HG3	1.88	0.54
1:A:2065:ARG:HB3	1:A:2125:TRP:CD1	2.42	0.54
1:A:2796:ALA:O	1:A:2800:ARG:HG3	2.06	0.54
1:A:2870:SER:O	1:A:2872:ASP:N	2.41	0.54
1:A:3273:LEU:HB3	1:A:3321:LEU:CD2	2.37	0.54
1:A:3413:TYR:HD2	1:A:3453:ALA:HB2	1.72	0.54
1:A:3967:PHE:CD1	1:A:3968:ILE:N	2.75	0.54
1:B:2636:UNK:O	1:B:2640:UNK:CB	2.55	0.54
1:B:2801:ASP:HB2	1:B:2802:PRO:HD3	1.88	0.54
1:B:2894:GLU:HA	1:B:2898:LEU:HB2	1.88	0.54
1:B:3464:LYS:O	1:B:3468:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3864:ARG:HD2	1:B:4115:ASN:OD1	2.08	0.54
1:A:15:LEU:HD23	1:A:2359:LYS:NZ	2.22	0.54
1:A:1018:VAL:HB	1:A:1074:LYS:CA	2.37	0.54
1:A:1064:TYR:CD1	1:A:1106:ILE:HD11	2.42	0.54
1:A:1296:PHE:O	1:A:1299:GLU:N	2.39	0.54
1:A:1462:GLY:C	1:A:1464:LEU:H	2.11	0.54
1:A:1551:ILE:HA	1:A:1554:SER:HB3	1.89	0.54
1:A:2164:TRP:HH2	1:A:2190:VAL:HG12	1.70	0.54
1:A:2923:TRP:CD1	1:A:2931:ARG:HD3	2.42	0.54
1:A:3294:SER:HB3	1:A:3341:LEU:HD22	1.90	0.54
1:B:409:GLN:HG3	1:B:413:PHE:CZ	2.41	0.54
1:B:514:VAL:HA	1:B:604:PRO:HG3	1.90	0.54
1:B:575:ILE:N	1:B:605:THR:OG1	2.40	0.54
1:B:963:LYS:HB3	1:B:1009:LEU:HD11	1.88	0.54
1:B:1216:GLY:HA3	1:B:1271:ILE:HG22	1.88	0.54
1:B:2462:VAL:HG11	1:B:2473:MSE:SE	2.58	0.54
1:B:2474:TYR:CE1	1:B:2509:GLY:HA3	2.42	0.54
1:B:3472:ILE:HG22	1:B:3473:GLU:H	1.73	0.54
1:A:401:ASP:HB2	1:A:1763:THR:OG1	2.07	0.54
1:A:759:GLY:HA3	1:A:773:LEU:CD1	2.38	0.54
1:A:1111:LEU:HA	1:A:1114:ALA:HB3	1.90	0.54
1:A:2461:PHE:HE1	1:A:2469:CYS:HG	1.55	0.54
1:A:2538:ARG:HH11	1:A:2565:MSE:CG	2.21	0.54
1:A:3008:TRP:H	1:A:3050:LYS:HG2	1.73	0.54
1:A:3114:TYR:OH	1:A:3128:LYS:HB3	2.07	0.54
1:B:65:LEU:HD23	1:B:68:PHE:CE1	2.43	0.54
1:B:649:PHE:C	1:B:651:TYR:N	2.61	0.54
1:B:659:ARG:HH22	1:B:662:LEU:CB	2.20	0.54
1:B:936:SER:HB3	1:B:2791:ILE:CG1	2.35	0.54
1:B:1019:ASP:HB3	1:B:1020:PRO:HD2	1.89	0.54
1:B:1639:LEU:HD12	1:B:1640:GLU:N	2.23	0.54
1:B:3121:LEU:HB2	1:B:3124:SER:OG	2.08	0.54
1:B:3864:ARG:NH2	1:B:4119:ARG:HH21	2.05	0.54
1:B:4027:TRP:HB3	1:B:4031:ILE:HD11	1.90	0.54
1:A:138:PHE:CD2	1:A:177:LEU:HD22	2.42	0.54
1:A:269:SER:HB2	1:A:315:ALA:HB2	1.90	0.54
1:A:1424:THR:O	1:A:1426:GLN:N	2.41	0.54
1:A:1810:PRO:O	1:A:1811:ARG:HG2	2.08	0.54
1:B:633:ILE:O	1:B:637:LYS:HG2	2.08	0.54
1:B:897:PRO:HG2	1:B:898:PHE:CE1	2.43	0.54
1:B:1693:VAL:O	1:B:1697:PRO:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2039:GLU:HG2	1:B:2077:HIS:NE2	2.22	0.54
1:B:2220:MSE:SE	1:B:2276:LEU:HD11	2.58	0.54
1:B:2363:CYS:O	1:B:2367:VAL:HG12	2.07	0.54
1:B:3907:SER:O	1:B:3911:ILE:HG23	2.08	0.54
1:A:69:VAL:HG12	1:A:70:ARG:N	2.22	0.54
1:A:270:ALA:O	1:A:274:LEU:HG	2.08	0.54
1:A:1103:ALA:O	1:A:1106:ILE:HG12	2.07	0.54
1:A:2030:TYR:CD1	1:A:2031:LEU:HG	2.40	0.54
1:A:2837:LEU:HD13	1:A:2868:LEU:N	2.23	0.54
1:A:3390:GLN:O	1:A:3394:GLU:HB2	2.08	0.54
1:A:3464:LYS:HE3	1:A:3468:LEU:HD21	1.88	0.54
1:A:3486:GLU:HG3	1:A:3487:ILE:N	2.22	0.54
1:A:3701:ILE:O	1:A:3701:ILE:HG13	2.08	0.54
1:A:3812:LEU:HG	1:A:3813:LYS:N	2.22	0.54
1:A:3963:LEU:HG	1:A:3967:PHE:HE1	1.71	0.54
1:B:916:GLU:CB	1:B:930:ALA:HB1	2.36	0.54
1:B:2097:LEU:HA	1:B:2100:LEU:HB3	1.89	0.54
1:B:2224:PHE:HZ	1:B:2276:LEU:HD22	1.70	0.54
1:B:2386:LEU:HD11	1:B:2400:VAL:HG12	1.88	0.54
1:B:2543:ASN:HA	1:B:2546:TYR:HD2	1.72	0.54
1:B:3840:LYS:CE	1:B:4122:GLU:HB3	2.36	0.54
1:B:3858:MSE:HG2	1:B:4119:ARG:HD3	1.89	0.54
1:A:83:GLU:O	1:A:87:LYS:HG3	2.08	0.54
1:A:966:PHE:CZ	1:A:988:VAL:HG12	2.43	0.54
1:A:971:ARG:NE	1:A:1024:THR:OG1	2.40	0.54
1:A:1087:ARG:CD	1:A:1134:LEU:HD22	2.36	0.54
1:A:1406:LEU:HB3	1:A:1415:LEU:HD21	1.90	0.54
1:A:1609:ALA:HB2	1:A:1633:TRP:CZ2	2.42	0.54
1:A:2085:MSE:O	1:A:2088:LEU:HB3	2.08	0.54
1:A:2416:LYS:HD3	1:A:2442:MSE:SE	2.58	0.54
1:A:2935:GLU:HG3	1:A:2936:TYR:H	1.73	0.54
1:B:649:PHE:C	1:B:651:TYR:H	2.10	0.54
1:B:789:TYR:HD2	1:B:865:GLN:HG3	1.71	0.54
1:B:855:VAL:O	1:B:859:LEU:HG	2.07	0.54
1:B:2163:HIS:O	1:B:2167:PRO:HD3	2.07	0.54
1:B:2312:TYR:CE2	1:B:2313:LYS:HG2	2.43	0.54
1:B:2352:HIS:HB2	1:B:2364:LEU:HD11	1.89	0.54
1:B:2820:MSE:SE	1:B:2833:THR:HG21	2.58	0.54
1:B:3568:ILE:HD11	1:B:3691:LYS:HD2	1.90	0.54
1:A:114:VAL:CG1	1:A:130:LEU:HD11	2.38	0.54
1:A:262:LEU:HD13	1:A:306:VAL:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1886:LYS:HZ2	1:A:1924:THR:CB	2.17	0.54
1:A:1907:GLU:OE2	1:A:1911:LEU:HD11	2.08	0.54
1:A:2177:ASN:HD22	1:A:2182:ILE:CG2	2.21	0.54
1:A:2304:VAL:HG11	1:A:2344:LEU:HB3	1.90	0.54
1:A:2412:TYR:CE1	1:A:2415:LEU:HB3	2.43	0.54
1:A:3039:THR:O	1:A:3042:PRO:HD2	2.08	0.54
1:A:3728:VAL:HG22	1:A:3736:LYS:HG3	1.89	0.54
1:A:3762:GLN:HE22	1:A:3763:ARG:NH1	2.05	0.54
1:B:39:GLY:HA2	1:B:92:PHE:HZ	1.71	0.54
1:B:87:LYS:HG2	1:B:133:LYS:HG3	1.89	0.54
1:B:276:ALA:HA	1:B:280:SER:OG	2.08	0.54
1:B:278:HIS:O	1:B:281:GLN:HB3	2.08	0.54
1:B:620:PHE:CE1	1:B:623:PHE:HD2	2.26	0.54
1:B:718:MSE:SE	1:B:731:THR:HG22	2.58	0.54
1:B:981:ARG:HA	1:B:984:TYR:HD2	1.71	0.54
1:B:1862:THR:O	1:B:1865:THR:HG22	2.07	0.54
1:B:2049:VAL:HG11	1:B:2100:LEU:HD12	1.90	0.54
1:B:2238:ILE:O	1:B:2242:VAL:HG23	2.08	0.54
1:B:2366:LYS:HZ2	2:S:101:UNK:HA	1.73	0.54
1:B:2806:LYS:HA	1:B:2809:PHE:CD2	2.43	0.54
1:B:2990:GLU:O	1:B:2994:TRP:HB2	2.07	0.54
1:B:3048:LYS:NZ	1:B:3064:PHE:CE2	2.74	0.54
1:B:3240:MSE:O	1:B:3242:MSE:N	2.41	0.54
1:A:508:HIS:HB3	1:A:725:LEU:HB3	1.90	0.54
1:A:1080:LEU:HD13	1:A:1127:CYS:CB	2.38	0.54
1:A:1087:ARG:HD3	1:A:1134:LEU:HB3	1.89	0.54
1:A:1166:LEU:HB3	1:A:1170:LYS:NZ	2.23	0.54
1:A:1582:LEU:O	1:A:1585:SER:HB3	2.08	0.54
1:A:1718:ILE:HG23	1:A:1750:LEU:HD11	1.89	0.54
1:A:2039:GLU:HG2	1:A:2077:HIS:NE2	2.23	0.54
1:A:2200:ALA:HA	1:A:2203:THR:HG22	1.89	0.54
1:A:2855:VAL:O	1:A:2859:GLN:HB2	2.08	0.54
1:A:2891:ARG:HH22	1:A:3884:LYS:HE2	1.73	0.54
1:A:3518:VAL:HA	1:A:3521:ILE:HG22	1.90	0.54
1:A:3857:LEU:HA	1:A:3859:TYR:CE2	2.43	0.54
1:B:629:PHE:CZ	1:B:666:PHE:O	2.60	0.54
1:B:2798:ALA:HB3	1:B:2799:GLN:NE2	2.23	0.54
1:B:3578:LEU:HD22	1:B:3683:CYS:SG	2.47	0.54
1:A:414:LEU:O	1:A:414:LEU:HG	2.01	0.53
1:A:548:GLU:O	1:A:552:SER:OG	2.21	0.53
1:A:1008:ALA:O	1:A:1011:GLU:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1175:HIS:O	1:A:1179:PRO:HD3	2.08	0.53
1:A:1804:MSE:O	1:A:1808:ASP:HB3	2.08	0.53
1:A:1939:LEU:CD1	1:A:1986:ARG:HG2	2.38	0.53
1:A:2148:LYS:HD2	1:A:2188:GLU:OE2	2.08	0.53
1:A:3122:HIS:HB3	1:A:3126:LEU:HD13	1.89	0.53
1:A:3502:MSE:HE3	1:A:3517:SER:HB3	1.89	0.53
1:A:3525:TYR:CE1	1:A:3561:LYS:HD2	2.43	0.53
1:A:3974:MSE:HA	1:A:3975:LYS:CB	2.38	0.53
1:B:1348:LEU:HD23	1:B:1353:PRO:HD3	1.90	0.53
1:B:1733:THR:HB	1:B:1877:LEU:HD22	1.90	0.53
1:B:2813:PHE:HA	1:B:2816:ILE:HG22	1.89	0.53
1:B:3047:SER:HB2	1:B:3050:LYS:HE2	1.90	0.53
1:B:3690:PHE:CZ	1:B:3722:PHE:HD2	2.26	0.53
1:B:3917:ILE:O	1:B:4048:LYS:CE	2.56	0.53
1:B:3965:ARG:HG3	1:B:3969:ASN:OD1	2.09	0.53
2:S:217:UNK:O	2:S:220:MSE:HG2	2.08	0.53
1:A:1817:GLN:HA	1:A:1820:VAL:HG22	1.90	0.53
1:A:3789:ARG:HD3	1:A:3938:ILE:HG21	1.89	0.53
1:A:3794:VAL:HG11	1:A:3796:MSE:HE3	1.90	0.53
1:A:3819:THR:HG1	1:A:3889:ARG:HH12	1.46	0.53
1:B:294:PHE:O	1:B:297:LEU:HG	2.09	0.53
1:B:356:ASN:ND2	1:B:1859:ASN:H	2.07	0.53
1:B:629:PHE:HZ	1:B:666:PHE:O	1.91	0.53
1:B:762:TYR:C	1:B:764:PRO:HD3	2.29	0.53
1:B:1575:LEU:HD13	1:B:1604:SER:HB3	1.90	0.53
1:B:1648:LEU:HD22	1:B:1684:LEU:HD22	1.89	0.53
1:B:2049:VAL:HA	1:B:2052:TYR:HD2	1.71	0.53
1:B:2870:SER:HA	1:B:2897:LEU:HD22	1.89	0.53
1:B:3469:LEU:O	1:B:3474:ARG:HG2	2.08	0.53
1:B:3636:PHE:C	1:B:3638:LYS:H	2.12	0.53
1:B:3927:ASN:O	1:B:3940:ILE:HG22	2.08	0.53
1:A:368:LEU:HD23	1:A:372:PRO:CG	2.37	0.53
1:A:489:ARG:HH22	1:A:492:SER:HB3	1.72	0.53
1:A:661:PRO:HG2	1:A:733:LEU:CA	2.38	0.53
1:A:926:THR:O	1:A:930:ALA:CB	2.56	0.53
1:A:1046:PRO:O	1:A:1049:GLN:HB3	2.08	0.53
1:A:2078:ASP:HB3	1:A:2135:ASN:ND2	2.23	0.53
1:A:2168:LEU:HD13	1:A:2214:ARG:CZ	2.37	0.53
1:B:641:PHE:CE1	1:B:663:ILE:HG21	2.42	0.53
1:B:757:LYS:HA	1:B:760:LEU:HD12	1.90	0.53
1:B:1590:THR:O	1:B:1592:MSE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1723:PRO:C	1:B:1725:GLN:H	2.12	0.53
1:B:2009:LYS:NZ	1:B:2011:ALA:HA	2.23	0.53
1:B:2196:TRP:CE2	1:B:2199:LEU:HD11	2.44	0.53
1:B:3585:PHE:HD1	1:B:3613:MSE:HE1	1.73	0.53
1:B:3790:THR:HG22	1:B:3791:TYR:H	1.73	0.53
1:A:47:SER:H	1:A:51:LEU:HD12	1.74	0.53
1:A:306:VAL:O	1:A:309:LYS:HG3	2.08	0.53
1:A:361:ILE:HG13	1:A:362:ALA:N	2.23	0.53
1:A:535:LEU:HB3	1:A:626:LEU:HD11	1.91	0.53
1:A:756:PHE:O	1:A:759:GLY:C	2.47	0.53
1:A:1032:CYS:HB3	1:A:1036:PHE:CZ	2.44	0.53
1:A:1083:ASN:HB2	1:A:1107:TYR:HE2	1.74	0.53
1:A:1111:LEU:HD23	1:A:1128:CYS:SG	2.48	0.53
1:A:3141:PHE:HZ	1:A:3192:LYS:HB2	1.73	0.53
1:A:3300:VAL:HG23	1:A:3328:ILE:HD13	1.89	0.53
1:A:3462:ARG:HE	1:A:3501:HIS:CD2	2.27	0.53
1:A:3944:HIS:NE2	1:A:4020:MSE:HE3	2.23	0.53
1:B:969:LEU:O	1:B:973:ALA:HB2	2.07	0.53
1:B:977:ASP:O	1:B:980:THR:HB	2.09	0.53
1:B:1267:TYR:OH	1:B:1340:ARG:NH2	2.41	0.53
1:B:1275:THR:HA	1:B:1279:LEU:HB2	1.90	0.53
1:B:1941:HIS:ND1	1:B:1941:HIS:O	2.40	0.53
1:B:2300:PHE:CE2	1:B:2341:LEU:HB2	2.44	0.53
1:B:3311:ASN:O	1:B:3313:SER:N	2.39	0.53
1:B:3458:SER:OG	1:B:3494:GLN:NE2	2.42	0.53
1:B:3530:VAL:HA	1:B:3533:PHE:CD2	2.43	0.53
1:B:3629:ARG:NH2	1:B:3638:LYS:NZ	2.53	0.53
1:B:3699:LEU:HG	1:B:3701:ILE:HG23	1.90	0.53
1:A:276:ALA:HA	1:A:280:SER:OG	2.09	0.53
1:A:567:GLU:HB3	1:A:606:SER:CB	2.39	0.53
1:A:1221:ILE:HG12	1:A:1274:ARG:NH1	2.24	0.53
1:A:1288:SER:O	1:A:1290:LEU:N	2.42	0.53
1:A:1306:ILE:HG22	1:A:1381:SER:HB3	1.90	0.53
1:A:1758:LEU:HD13	1:A:1860:GLU:HG2	1.89	0.53
1:A:2094:MSE:HE1	1:A:2143:ARG:CA	2.38	0.53
1:A:2352:HIS:CG	1:A:2364:LEU:HD21	2.44	0.53
1:A:3529:ILE:HG13	1:A:3532:PRO:HG2	1.89	0.53
1:B:397:LEU:HD21	1:B:1813:SER:HB3	1.90	0.53
1:B:430:VAL:HG21	1:B:1682:THR:HG23	1.90	0.53
1:B:1015:ASP:HA	1:B:1018:VAL:HG22	1.90	0.53
1:B:1044:ILE:O	1:B:1045:THR:OG1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3259:LEU:O	1:B:3263:HIS:CB	2.53	0.53
1:B:3605:ASN:O	1:B:3609:MSE:HG3	2.07	0.53
1:A:364:ARG:O	1:A:368:LEU:N	2.24	0.53
1:A:965:THR:HA	1:A:968:VAL:HG12	1.90	0.53
1:A:1348:LEU:O	1:A:1352:SER:N	2.35	0.53
1:A:2129:LEU:HB3	1:A:2156:VAL:HG13	1.90	0.53
1:A:3266:SER:HB2	1:A:3271:ASP:CG	2.29	0.53
1:A:3486:GLU:O	1:A:3489:SER:N	2.41	0.53
1:A:3617:LEU:HD13	1:A:3644:PHE:HD2	1.74	0.53
1:B:69:VAL:HG12	1:B:70:ARG:N	2.24	0.53
1:B:110:THR:O	1:B:114:VAL:HG23	2.07	0.53
1:B:884:VAL:HG11	1:B:3889:ARG:O	2.08	0.53
1:B:1756:PRO:C	1:B:1758:LEU:H	2.11	0.53
1:B:2280:VAL:HG13	1:B:2287:PRO:HB2	1.91	0.53
1:B:3530:VAL:HG11	1:B:3700:GLU:O	2.09	0.53
1:B:4017:GLU:OE1	1:B:4017:GLU:N	2.39	0.53
1:A:361:ILE:HD11	1:A:413:PHE:CZ	2.44	0.53
1:A:947:GLN:HB2	1:A:949:PRO:HD3	1.89	0.53
1:A:1004:GLN:O	1:A:1008:ALA:CB	2.56	0.53
1:A:1513:GLY:O	1:A:1517:LEU:HG	2.07	0.53
1:A:1567:ILE:O	1:A:1571:LEU:HG	2.09	0.53
1:A:1976:LEU:HD22	1:A:1981:LEU:HD22	1.91	0.53
1:A:2870:SER:C	1:A:2872:ASP:H	2.11	0.53
1:A:3464:LYS:HG3	1:A:3468:LEU:HD11	1.91	0.53
1:A:3493:TRP:HB2	1:A:3713:PRO:HG3	1.91	0.53
1:A:3818:ASN:O	1:A:3821:SER:HB3	2.08	0.53
1:B:75:SER:O	1:B:77:GLU:N	2.41	0.53
1:B:150:GLY:HA2	1:B:153:PHE:CE2	2.43	0.53
1:B:1256:TRP:O	1:B:1260:LEU:HG	2.08	0.53
1:B:1914:THR:HG22	1:B:1955:VAL:HG21	1.89	0.53
1:B:1988:TYR:OH	1:B:2044:ASP:OD2	2.24	0.53
1:B:2349:LEU:HD23	1:B:2364:LEU:HD22	1.90	0.53
1:B:2798:ALA:O	1:B:2802:PRO:HD2	2.09	0.53
1:B:2890:ILE:HD12	1:B:2918:PRO:HB3	1.90	0.53
1:B:3459:ASN:ND2	1:B:3710:LYS:NZ	2.57	0.53
1:B:3588:TRP:O	1:B:3592:VAL:HG23	2.09	0.53
1:A:313:LEU:O	1:A:316:LEU:N	2.42	0.53
1:A:321:LYS:O	1:A:325:ASN:ND2	2.33	0.53
1:A:361:ILE:HG12	1:A:1858:LEU:HD23	1.91	0.53
1:A:771:ASN:C	1:A:773:LEU:H	2.12	0.53
1:A:995:PHE:CE1	1:A:1003:SER:HA	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:995:PHE:HZ	1:A:1006:THR:HB	1.74	0.53
1:A:1067:ALA:HB1	1:A:1111:LEU:CD1	2.38	0.53
1:A:2094:MSE:HA	1:A:2094:MSE:HE3	1.90	0.53
1:A:3280:TYR:O	1:A:3283:LEU:HB3	2.09	0.53
1:A:3620:PRO:HG2	1:A:3641:ASP:OD2	2.08	0.53
1:A:4002:MSE:SE	1:A:4048:LYS:HE3	2.58	0.53
1:B:179:GLY:O	1:B:183:GLU:HG3	2.08	0.53
1:B:808:GLU:OE1	1:B:3114:TYR:HB3	2.08	0.53
1:B:1158:PRO:HB2	1:B:1159:PRO:HD3	1.91	0.53
1:B:1685:ASP:OD1	1:B:1717:LEU:HD13	2.09	0.53
1:B:2502:ALA:O	1:B:2506:LEU:HG	2.08	0.53
1:B:3133:GLN:O	1:B:3137:GLU:HG2	2.09	0.53
1:B:3487:ILE:HD11	1:B:3498:TRP:HH2	1.74	0.53
1:B:3908:HIS:CG	1:B:3967:PHE:CZ	2.97	0.53
1:B:3997:LEU:H	1:B:3997:LEU:HD12	1.73	0.53
1:A:2186:VAL:HG21	1:A:2219:LEU:HD21	1.91	0.53
1:A:3024:PRO:HB2	1:A:3067:LYS:NZ	2.23	0.53
1:A:3251:ASN:ND2	1:A:3254:LEU:HB2	2.24	0.53
1:A:3457:ASN:CG	1:A:3710:LYS:HZ2	2.12	0.53
1:A:3578:LEU:HD11	1:A:3686:TRP:CZ3	2.43	0.53
1:B:531:PHE:CZ	1:B:619:ASP:HB2	2.43	0.53
1:B:550:PHE:CZ	1:B:632:GLU:HG2	2.42	0.53
1:B:1802:TYR:HA	1:B:1805:PHE:CD2	2.37	0.53
1:B:1916:ILE:O	1:B:1920:TYR:HD1	1.92	0.53
1:B:2009:LYS:HG2	1:B:2011:ALA:N	2.24	0.53
1:B:2379:MSE:SE	1:B:2408:MSE:SE	3.27	0.53
1:B:2532:PRO:HG2	1:B:2538:ARG:N	2.23	0.53
1:B:2870:SER:C	1:B:2872:ASP:H	2.04	0.53
1:B:2877:SER:O	1:B:2879:GLY:N	2.28	0.53
1:B:3080:LEU:HA	1:B:3086:LEU:HD22	1.91	0.53
1:B:3719:ILE:HG23	1:B:3720:ALA:H	1.73	0.53
1:B:3879:PRO:HG2	1:B:4128:MSE:HE3	1.91	0.53
1:B:3946:PHE:CE2	1:B:4048:LYS:HD2	2.44	0.53
1:B:3972:LEU:HB2	1:B:3974:MSE:HE2	1.91	0.53
1:A:139:ARG:O	1:A:141:SER:N	2.39	0.53
1:A:558:GLU:HA	1:A:561:ASN:ND2	2.24	0.53
1:A:562:HIS:HA	1:A:565:TYR:HB3	1.91	0.53
1:A:1382:ILE:HD12	1:A:1386:ILE:HD11	1.91	0.53
1:A:1982:ILE:HG23	1:A:1986:ARG:NE	2.24	0.53
1:A:2083:LEU:N	1:A:2086:ASP:HB2	2.24	0.53
1:A:2412:TYR:HD2	1:A:2416:LYS:HZ2	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3238:MSE:O	1:A:3242:MSE:HG3	2.08	0.53
1:A:3498:TRP:NE1	1:A:3502:MSE:HB2	2.23	0.53
1:A:3696:ARG:O	1:A:3699:LEU:HB2	2.09	0.53
1:B:244:THR:O	1:B:248:ILE:HG13	2.09	0.53
1:B:658:THR:N	1:B:733:LEU:HD13	2.24	0.53
1:B:1349:LEU:CD2	1:B:1359:LEU:HB2	2.38	0.53
1:B:1652:ILE:HG13	1:B:1684:LEU:HD12	1.90	0.53
1:B:2517:LEU:HD23	1:B:2517:LEU:H	1.73	0.53
1:B:3012:GLU:HB2	1:B:3050:LYS:HZ3	1.69	0.53
1:B:3425:ARG:NH1	1:B:4003:ASP:OD2	2.42	0.53
1:A:659:ARG:NH2	1:A:662:LEU:HG	2.18	0.52
1:A:1550:VAL:HG23	1:A:1551:ILE:H	1.74	0.52
1:A:1560:TYR:O	1:A:1563:PHE:N	2.30	0.52
1:A:1729:PHE:H	1:A:1730:PRO:HD2	1.74	0.52
1:A:3145:ILE:HG23	1:A:3196:LYS:HG2	1.91	0.52
1:A:3640:PHE:HB3	1:A:3644:PHE:CE2	2.44	0.52
1:B:357:LYS:HB2	1:B:361:ILE:HG22	1.89	0.52
1:B:385:TYR:CE2	1:B:424:LEU:HD21	2.44	0.52
1:B:986:PRO:O	1:B:990:GLN:HG2	2.10	0.52
1:B:1733:THR:N	1:B:1734:PRO:HD3	2.24	0.52
1:B:1933:LEU:HD22	1:B:1937:ARG:HG2	1.90	0.52
1:B:2273:GLY:O	1:B:2276:LEU:HB3	2.09	0.52
1:B:2420:PHE:CE2	1:B:2424:MSE:HE3	2.44	0.52
1:B:3175:PRO:HB2	1:B:3178:ILE:HG13	1.90	0.52
1:A:1111:LEU:O	1:A:1114:ALA:HB3	2.09	0.52
1:A:2462:VAL:HG11	1:A:2473:MSE:HE1	1.91	0.52
1:A:3007:GLU:HA	1:A:3011:LEU:HB2	1.90	0.52
1:A:3051:LEU:HD22	1:A:3058:ASP:HB2	1.91	0.52
1:A:3170:ASP:O	1:A:3172:LYS:NZ	2.39	0.52
1:A:3397:GLN:NE2	1:A:3449:LYS:HD3	2.21	0.52
1:A:3498:TRP:CD1	1:A:3498:TRP:O	2.61	0.52
1:A:4081:ALA:HB2	1:A:4116:ILE:HD11	1.90	0.52
1:B:138:PHE:CD2	1:B:173:LYS:HE3	2.38	0.52
1:B:245:SER:O	1:B:248:ILE:N	2.42	0.52
1:B:396:PHE:CZ	1:B:397:LEU:HG	2.44	0.52
1:B:730:LEU:HA	1:B:733:LEU:CD1	2.39	0.52
1:B:933:LEU:O	1:B:936:SER:N	2.41	0.52
1:B:1096:VAL:HG23	1:B:1099:PHE:HE2	1.73	0.52
1:B:1356:TRP:HZ2	1:B:1409:SER:HB3	1.72	0.52
1:B:2223:VAL:HB	1:B:2238:ILE:HD12	1.92	0.52
1:B:2461:PHE:O	1:B:2465:PRO:HD3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2999:LEU:HA	1:B:3002:TYR:CE2	2.44	0.52
1:B:3461:ALA:O	1:B:3464:LYS:N	2.41	0.52
1:A:103:TYR:O	1:A:107:ILE:HG13	2.09	0.52
1:A:104:SER:HA	1:A:107:ILE:HD12	1.92	0.52
1:A:175:TYR:HE1	1:A:200:PHE:CB	2.23	0.52
1:A:231:LEU:HB2	1:A:275:PHE:CZ	2.44	0.52
1:A:535:LEU:HD22	1:A:626:LEU:HG	1.91	0.52
1:A:1520:ALA:O	1:A:1524:LEU:HD13	2.09	0.52
1:A:1725:GLN:OE1	1:A:1754:GLN:NE2	2.43	0.52
1:A:1760:GLU:CB	1:A:1894:SER:HA	2.40	0.52
1:A:2281:MSE:SE	1:A:2286:PRO:CB	3.07	0.52
1:A:2395:THR:O	1:A:2399:GLU:HB2	2.09	0.52
1:A:2420:PHE:HE1	1:A:2436:LEU:HD22	1.75	0.52
1:A:3117:ILE:HD12	1:A:3125:ARG:NH1	2.23	0.52
1:A:4071:ALA:O	1:A:4075:ARG:CB	2.55	0.52
1:B:70:ARG:HG3	1:B:78:PHE:HB3	1.90	0.52
1:B:217:LEU:N	1:B:218:PRO:HD2	2.23	0.52
1:B:249:PHE:HD1	1:B:265:TYR:CE1	2.27	0.52
1:B:580:ASP:OD1	1:B:581:LEU:N	2.42	0.52
1:B:922:SER:O	1:B:924:ARG:N	2.42	0.52
1:B:1073:PHE:CD1	1:B:1074:LYS:N	2.74	0.52
1:B:1880:MSE:HE2	1:B:1884:LEU:HD21	1.92	0.52
1:B:3684:SER:OG	1:B:3685:PRO:HD3	2.10	0.52
1:A:178:LEU:HB3	1:A:197:PHE:CZ	2.45	0.52
1:A:307:GLU:H	1:A:307:GLU:CD	2.12	0.52
1:A:654:ILE:O	1:A:657:SER:N	2.42	0.52
1:A:703:CYS:O	1:A:707:PHE:HD1	1.92	0.52
1:A:947:GLN:C	1:A:949:PRO:HD3	2.30	0.52
1:A:1369:MSE:HE1	1:A:1414:ILE:O	2.10	0.52
1:A:2542:LEU:CB	1:A:2546:TYR:HE2	2.18	0.52
1:A:3033:GLU:OE2	1:A:3079:GLU:OE2	2.27	0.52
1:A:3416:LEU:CD1	1:A:3446:VAL:HG12	2.40	0.52
1:B:937:MSE:O	1:B:941:MSE:HG3	2.08	0.52
1:B:1104:LEU:HD22	1:B:1135:CYS:SG	2.49	0.52
1:B:1698:PHE:HD1	1:B:1699:PHE:N	2.07	0.52
1:B:2464:HIS:H	1:B:2465:PRO:HD3	1.74	0.52
1:B:2824:LYS:O	1:B:2826:LEU:HG	2.09	0.52
1:A:368:LEU:C	1:A:372:PRO:HG2	2.30	0.52
1:A:385:TYR:CE1	1:A:421:LEU:HD23	2.45	0.52
1:A:608:PRO:HB2	1:A:1800:SER:HB2	1.91	0.52
1:A:730:LEU:HA	1:A:733:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1090:ARG:HH22	1:A:1096:VAL:HG22	1.74	0.52
1:A:2799:GLN:CB	1:A:2808:LEU:HD11	2.40	0.52
1:A:3331:GLY:O	1:A:3335:ARG:HD2	2.09	0.52
1:A:3503:VAL:CG2	1:A:3536:SER:HA	2.39	0.52
1:A:3588:TRP:O	1:A:3592:VAL:HG23	2.08	0.52
1:A:3620:PRO:CB	1:A:3633:ILE:HG23	2.39	0.52
1:A:3769:GLN:O	1:A:3773:GLY:HA3	2.10	0.52
1:B:88:PHE:O	1:B:91:ILE:HG13	2.09	0.52
1:B:194:GLU:HA	1:B:197:PHE:HD2	1.74	0.52
1:B:981:ARG:CG	1:B:982:GLN:N	2.72	0.52
1:B:1244:LEU:HD13	1:B:3698:GLU:OE2	2.10	0.52
1:B:1883:ARG:HB2	1:B:1923:PHE:CZ	2.44	0.52
1:B:1911:LEU:O	1:B:1913:LYS:N	2.37	0.52
1:B:1913:LYS:HG3	1:B:1916:ILE:HD12	1.91	0.52
1:B:2002:LYS:O	1:B:2004:TYR:N	2.43	0.52
1:B:2308:SER:H	1:B:2348:GLN:NE2	2.08	0.52
1:B:2854:PHE:CZ	1:B:2881:LEU:HB2	2.45	0.52
1:B:2987:THR:HB	1:B:2991:LYS:N	2.20	0.52
1:B:3005:LEU:C	1:B:3254:LEU:HD21	2.28	0.52
1:B:3625:LEU:HD13	1:B:3633:ILE:HG13	1.91	0.52
1:A:446:PHE:HB2	1:A:533:HIS:CD2	2.44	0.52
1:A:476:ARG:O	1:A:479:ILE:HB	2.10	0.52
1:A:612:LEU:HD23	1:A:613:HIS:N	2.24	0.52
1:A:913:ARG:HB3	1:A:934:LEU:HD12	1.90	0.52
1:A:985:GLU:HG3	1:A:1031:ARG:NH2	2.25	0.52
1:A:1076:LEU:C	1:A:1078:ALA:H	2.12	0.52
1:A:1675:TYR:OH	1:A:1679:LEU:HD11	2.10	0.52
1:A:2405:VAL:O	1:A:2408:MSE:HB2	2.08	0.52
1:A:2854:PHE:CZ	1:A:2881:LEU:HB2	2.44	0.52
1:A:3251:ASN:HD21	1:A:3254:LEU:HD13	1.75	0.52
1:A:3464:LYS:HD2	1:A:3467:ARG:HD2	1.91	0.52
1:A:3602:ASN:HA	1:A:3606:ILE:HG12	1.92	0.52
1:A:3775:LEU:HB2	1:A:3787:GLN:NE2	2.24	0.52
1:B:567:GLU:O	1:B:571:SER:N	2.42	0.52
1:B:580:ASP:O	1:B:584:GLU:N	2.43	0.52
1:B:631:ARG:HG2	1:B:669:LEU:HD11	1.91	0.52
1:B:658:THR:CG2	1:B:659:ARG:HH11	2.17	0.52
1:B:1993:GLU:HG2	1:B:2043:PHE:CD2	2.44	0.52
1:B:2002:LYS:C	1:B:2004:TYR:H	2.12	0.52
1:B:2210:VAL:HG13	1:B:2211:LEU:HG	1.90	0.52
1:B:2546:TYR:CE1	1:B:2558:ALA:CB	2.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2546:TYR:HE1	1:B:2558:ALA:CB	2.20	0.52
1:B:2573:PRO:C	1:B:2575:PRO:HD3	2.30	0.52
1:B:3064:PHE:CG	1:B:3065:ILE:N	2.74	0.52
1:B:4077:TYR:CZ	1:B:4119:ARG:HG2	2.44	0.52
1:A:408:TYR:HB2	1:A:453:MSE:HG2	1.91	0.52
1:A:736:LEU:O	1:A:740:ILE:HG13	2.10	0.52
1:A:967:PRO:O	1:A:970:LEU:N	2.42	0.52
1:A:1067:ALA:HB1	1:A:1111:LEU:HD11	1.91	0.52
1:A:3280:TYR:CD1	1:A:3328:ILE:HD11	2.44	0.52
1:B:552:SER:O	1:B:556:SER:HB2	2.09	0.52
1:B:1352:SER:HB3	1:B:1353:PRO:HD3	1.92	0.52
1:B:1399:CYS:O	1:B:1403:MSE:HG3	2.10	0.52
1:B:1885:PRO:O	1:B:1888:ASP:N	2.42	0.52
1:B:2031:LEU:CB	1:B:2033:ASP:HB2	2.37	0.52
1:B:2365:ASN:ND2	1:B:2382:VAL:HG11	2.24	0.52
1:B:2803:ILE:O	1:B:2805:ALA:N	2.43	0.52
1:B:2942:ILE:HG22	1:B:2943:PHE:CD1	2.45	0.52
1:B:3280:TYR:O	1:B:3283:LEU:HB3	2.09	0.52
1:B:3575:LEU:HG	1:B:3687:MSE:CG	2.36	0.52
1:B:3649:SER:HA	1:B:3652:LEU:HG	1.92	0.52
1:A:433:PRO:HB2	1:A:1812:LEU:HA	1.91	0.52
1:A:653:LEU:HD12	1:A:656:GLN:HG3	1.92	0.52
1:A:1733:THR:OG1	1:A:1877:LEU:HD13	2.09	0.52
1:A:2125:TRP:CZ2	1:A:2128:PHE:HB2	2.45	0.52
1:A:2427:ARG:HD3	1:A:2436:LEU:HD11	1.91	0.52
1:A:2538:ARG:HH11	1:A:2565:MSE:HG3	1.74	0.52
1:A:3461:ALA:O	1:A:3464:LYS:N	2.43	0.52
1:A:3496:ILE:HG23	1:A:3499:ILE:HD11	1.91	0.52
1:A:3964:THR:O	1:A:3967:PHE:CD1	2.59	0.52
1:B:1412:LYS:O	1:B:1415:LEU:HB2	2.10	0.52
1:A:14:ARG:HE	1:A:2396:LEU:CD1	2.23	0.52
1:A:872:THR:O	1:A:876:SER:HB2	2.09	0.52
1:A:2289:ASP:O	1:A:2291:GLN:N	2.43	0.52
1:A:2886:GLN:CG	1:A:2887:PRO:HD3	2.39	0.52
1:A:3109:SER:O	1:A:3112:GLN:HB3	2.10	0.52
1:A:3398:PRO:HG2	1:A:3399:PRO:HD3	1.92	0.52
1:B:358:GLU:O	1:B:361:ILE:HG12	2.10	0.52
1:B:627:VAL:CG1	1:B:628:GLU:H	2.17	0.52
1:B:865:GLN:HB2	1:B:869:ASN:OD1	2.10	0.52
1:B:1006:THR:HA	1:B:1009:LEU:HD12	1.91	0.52
1:B:2361:ILE:HA	1:B:2364:LEU:HG	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3475:TYR:O	1:B:3479:THR:HG22	2.09	0.52
1:B:3840:LYS:O	1:B:3844:THR:HG23	2.09	0.52
1:A:181:LEU:CD1	1:A:189:MSE:HE2	2.39	0.52
1:A:493:LYS:HB3	1:A:494:PRO:CD	2.39	0.52
1:A:611:ASN:C	1:A:614:PRO:HD2	2.30	0.52
1:A:1070:PRO:O	1:A:1072:ALA:N	2.43	0.52
1:A:1574:ASN:CG	1:A:1582:LEU:HD21	2.30	0.52
1:A:1711:ARG:O	1:A:1715:GLU:HG3	2.10	0.52
1:A:3856:MSE:O	1:A:3859:TYR:OH	2.10	0.52
1:B:359:LEU:O	1:B:362:ALA:HB3	2.10	0.52
1:B:413:PHE:O	1:B:417:VAL:HG23	2.10	0.52
1:B:658:THR:O	1:B:661:PRO:HD2	2.09	0.52
1:B:805:LEU:HA	1:B:808:GLU:OE1	2.10	0.52
1:B:2058:ASP:C	1:B:2061:PRO:HD2	2.30	0.52
1:B:2097:LEU:HD23	1:B:2100:LEU:HD22	1.90	0.52
1:B:2154:GLU:O	1:B:2157:PHE:HB2	2.10	0.52
1:B:2183:HIS:O	1:B:2187:VAL:CB	2.26	0.52
1:B:2199:LEU:HA	1:B:2202:PRO:HD2	1.92	0.52
1:B:2440:TYR:O	1:B:2443:MSE:HE2	2.10	0.52
1:B:3058:ASP:OD1	1:B:3060:SER:N	2.43	0.52
1:B:3277:VAL:HG23	1:B:3324:ARG:CD	2.40	0.52
1:B:3487:ILE:HA	1:B:3490:VAL:HG22	1.92	0.52
1:A:111:CYS:HA	1:A:134:LEU:HD22	1.91	0.51
1:A:655:LEU:HD12	1:A:658:THR:HB	1.91	0.51
1:A:1010:LEU:HB2	1:A:1028:PHE:CE1	2.44	0.51
1:A:1014:LEU:HA	1:A:1025:LEU:HD13	1.91	0.51
1:A:1632:TRP:HA	1:A:1635:LYS:HD2	1.91	0.51
1:A:3311:ASN:O	1:A:3313:SER:N	2.43	0.51
1:A:3333:THR:OG1	1:A:3385:LEU:HB3	2.10	0.51
1:A:3912:CYS:HB2	1:A:3984:MSE:HE2	1.91	0.51
1:B:1106:ILE:O	1:B:1109:GLU:HB3	2.11	0.51
1:B:1132:ASP:HA	1:B:1135:CYS:SG	2.50	0.51
1:B:1524:LEU:HD11	1:B:1592:MSE:HE3	1.92	0.51
1:B:1640:GLU:HG2	1:B:1691:GLN:HG2	1.92	0.51
1:B:1747:LEU:HD23	1:B:1750:LEU:HD12	1.92	0.51
1:B:1758:LEU:HD22	1:B:1759:LEU:HD22	1.92	0.51
1:B:1957:ASN:O	1:B:1961:PHE:N	2.43	0.51
1:B:2454:LEU:O	1:B:2457:PRO:HD2	2.10	0.51
1:B:2575:PRO:C	1:B:2576:MSE:HG3	2.31	0.51
1:B:2884:LEU:O	1:B:2887:PRO:HD2	2.10	0.51
1:B:2933:ILE:HG12	1:B:3979:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3781:CYS:SG	1:B:3786:LEU:HB2	2.50	0.51
1:A:557:SER:O	1:A:560:LEU:N	2.42	0.51
1:A:760:LEU:HD11	1:A:799:TYR:HB2	1.92	0.51
1:A:939:MSE:CE	1:A:942:LEU:HD13	2.40	0.51
1:A:1101:PHE:CG	1:A:1138:ILE:HG12	2.45	0.51
1:A:1330:TYR:O	1:A:1333:SER:OG	2.28	0.51
1:A:1590:THR:HG23	1:A:1591:LYS:N	2.25	0.51
1:A:2003:LYS:O	1:A:2007:ILE:HG13	2.11	0.51
1:A:2185:MSE:O	1:A:2189:ILE:HG12	2.11	0.51
1:A:2298:GLU:HB3	1:A:2301:GLN:HB3	1.92	0.51
1:A:2379:MSE:HE3	1:A:2383:PHE:HD1	1.75	0.51
1:A:3462:ARG:HH21	1:A:3501:HIS:CD2	2.28	0.51
1:A:3505:LEU:O	1:A:3510:GLN:HB2	2.11	0.51
1:A:3516:HIS:CG	1:A:3517:SER:N	2.77	0.51
1:A:3585:PHE:CE2	1:A:3613:MSE:SE	3.13	0.51
1:A:3631:LYS:HD2	1:A:3682:GLU:HG2	1.91	0.51
1:A:3659:PHE:CD1	1:A:3662:ILE:HD12	2.45	0.51
1:A:3705:TYR:HD2	1:A:3792:SER:HB2	1.74	0.51
1:A:4088:ASN:OD1	1:A:4091:ALA:HB3	2.09	0.51
1:B:276:ALA:HB2	1:B:318:SER:OG	2.10	0.51
1:B:613:HIS:CE1	1:B:614:PRO:HD3	2.45	0.51
1:B:886:TRP:HZ3	1:B:954:GLY:O	1.93	0.51
1:B:1213:LYS:O	1:B:1215:GLU:N	2.43	0.51
1:B:1263:ALA:O	1:B:1267:TYR:HD1	1.94	0.51
1:B:1905:ILE:HG12	1:B:1951:VAL:HG11	1.92	0.51
1:B:2177:ASN:HB3	1:B:2182:ILE:N	2.24	0.51
1:B:2307:MSE:HB3	1:B:2348:GLN:NE2	2.17	0.51
1:B:2374:LEU:HD13	1:B:2377:ARG:HB2	1.91	0.51
1:B:2796:ALA:O	1:B:2800:ARG:HG3	2.10	0.51
1:B:3343:SER:O	1:B:3345:PRO:HD3	2.10	0.51
1:A:17:GLU:OE2	1:A:61:ARG:NH1	2.43	0.51
1:A:21:ALA:O	1:A:24:ARG:HB2	2.11	0.51
1:A:127:ALA:O	1:A:131:LEU:HB2	2.11	0.51
1:A:135:LEU:CD2	1:A:173:LYS:HD2	2.40	0.51
1:A:352:VAL:HB	1:A:357:LYS:HG2	1.92	0.51
1:A:576:VAL:HG13	1:A:601:TRP:HE3	1.76	0.51
1:A:649:PHE:HE1	1:A:653:LEU:H	1.57	0.51
1:A:659:ARG:HH22	1:A:662:LEU:CG	2.19	0.51
1:A:681:LYS:HD2	1:A:746:ARG:HE	1.75	0.51
1:A:1376:LEU:HD23	1:A:1376:LEU:H	1.75	0.51
1:A:1970:LYS:NZ	1:A:2017:GLY:HA3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3909:ALA:HB2	1:A:3980:MSE:HE3	1.92	0.51
1:B:208:MSE:SE	1:B:220:LEU:HD21	2.61	0.51
1:B:384:MSE:O	1:B:385:TYR:HB3	2.11	0.51
1:B:649:PHE:O	1:B:651:TYR:N	2.43	0.51
1:B:1029:CYS:CB	1:B:1085:ILE:HG13	2.36	0.51
1:B:1275:THR:HA	1:B:1279:LEU:CB	2.41	0.51
1:B:1579:VAL:HG12	1:B:1635:LYS:HG2	1.91	0.51
1:B:2874:ALA:O	1:B:2877:SER:N	2.44	0.51
1:B:3107:ILE:HG23	1:B:3110:PHE:CZ	2.45	0.51
1:A:266:ALA:CB	1:A:308:LEU:HG	2.41	0.51
1:A:906:PHE:O	1:A:909:VAL:N	2.35	0.51
1:A:1072:ALA:HB1	1:A:1076:LEU:HD11	1.92	0.51
1:A:1266:CYS:O	1:A:1269:THR:OG1	2.25	0.51
1:A:1750:LEU:O	1:A:1754:GLN:HG3	2.10	0.51
1:A:2203:THR:O	1:A:2208:ASP:N	2.43	0.51
1:A:2450:GLU:O	1:A:2454:LEU:HG	2.11	0.51
1:A:2452:ARG:HG2	1:A:2498:ILE:CD1	2.40	0.51
1:A:3283:LEU:HD21	1:A:3297:VAL:HG22	1.92	0.51
1:A:3772:ASN:HB3	1:A:3788:LEU:H	1.74	0.51
1:B:111:CYS:O	1:B:134:LEU:HD13	2.10	0.51
1:B:1298:LEU:O	1:B:1302:ALA:HB2	2.10	0.51
1:B:2436:LEU:O	1:B:2439:ILE:HG22	2.10	0.51
1:B:2957:LEU:CB	1:B:3989:ARG:HH22	2.22	0.51
1:B:3493:TRP:NE1	1:B:3708:ARG:O	2.40	0.51
1:B:3794:VAL:HB	1:B:3802:LEU:H	1.76	0.51
1:B:3967:PHE:O	1:B:3970:LEU:HD23	2.10	0.51
1:B:4013:TRP:CZ3	1:B:4014:LYS:HB2	2.45	0.51
1:A:413:PHE:O	1:A:417:VAL:HG23	2.11	0.51
1:A:863:GLY:HA2	1:A:866:ILE:HD11	1.91	0.51
1:A:1503:LEU:O	1:A:1507:CYS:HB3	2.11	0.51
1:A:3588:TRP:HD1	1:A:3612:ARG:HD2	1.75	0.51
1:A:4019:LYS:HA	1:A:4019:LYS:HE2	1.93	0.51
1:B:407:VAL:O	1:B:411:PRO:HD3	2.10	0.51
1:B:941:MSE:HE3	1:B:958:MSE:CG	2.40	0.51
1:B:1405:ALA:O	1:B:1410:PRO:HD3	2.10	0.51
1:B:1970:LYS:CE	1:B:2017:GLY:HA3	2.40	0.51
1:B:2094:MSE:SE	1:B:2143:ARG:HG3	2.60	0.51
1:B:2355:THR:O	1:B:2356:MSE:HG3	2.11	0.51
1:A:543:SER:C	1:A:545:LEU:N	2.63	0.51
1:A:609:ALA:HB2	1:A:1800:SER:OG	2.11	0.51
1:A:619:ASP:O	1:A:621:SER:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1465:HIS:HA	1:A:1469:PRO:CD	2.41	0.51
1:A:2037:SER:O	1:A:2041:SER:HB3	2.10	0.51
1:A:2114:GLU:HG3	1:A:2116:ASP:H	1.75	0.51
1:A:2224:PHE:HZ	1:A:2276:LEU:HD22	1.73	0.51
1:A:3147:LYS:O	1:A:3151:LEU:HG	2.10	0.51
1:A:3189:PHE:O	1:A:3193:ILE:HB	2.10	0.51
1:A:3813:LYS:HB3	1:A:3925:LEU:HG	1.93	0.51
1:A:4062:ASP:HB3	1:A:4078:VAL:HG21	1.93	0.51
1:B:511:SER:HB2	1:B:515:ARG:HG2	1.93	0.51
1:B:1266:CYS:HA	1:B:1344:PHE:CE1	2.46	0.51
1:B:1879:VAL:C	1:B:1882:SER:H	2.14	0.51
1:B:3134:ALA:O	1:B:3138:ILE:HG12	2.11	0.51
1:B:3298:LEU:HD11	1:B:3351:ILE:HD13	1.93	0.51
1:B:3525:TYR:CZ	1:B:3533:PHE:HE1	2.29	0.51
1:B:3954:PRO:HB2	1:B:4027:TRP:CD1	2.45	0.51
1:A:19:LEU:HD22	1:A:30:ALA:HB1	1.93	0.51
1:A:514:VAL:HG11	1:A:610:ALA:O	2.10	0.51
1:A:917:LEU:HD22	1:A:969:LEU:HG	1.93	0.51
1:A:969:LEU:O	1:A:973:ALA:HB2	2.10	0.51
1:A:1378:GLU:O	1:A:1382:ILE:HG12	2.11	0.51
1:A:1865:THR:HA	1:A:1868:THR:OG1	2.10	0.51
1:A:1876:ILE:O	1:A:1876:ILE:HG12	2.11	0.51
1:A:1993:GLU:O	1:A:1997:PRO:HD2	2.10	0.51
1:A:3173:MSE:HB3	1:A:3175:PRO:HD2	1.93	0.51
1:A:3173:MSE:HG2	1:A:3174:ASP:OD1	2.11	0.51
1:A:3518:VAL:O	1:A:3522:THR:OG1	2.10	0.51
1:B:153:PHE:O	1:B:157:TYR:HD2	1.94	0.51
1:B:798:GLY:HA2	1:B:873:VAL:CG1	2.41	0.51
1:B:887:ASP:O	1:B:3889:ARG:HB3	2.11	0.51
1:B:1975:LEU:HA	1:B:1976:LEU:HB3	1.91	0.51
1:B:3142:ILE:O	1:B:3145:ILE:HG22	2.11	0.51
1:B:3451:LEU:HD21	1:B:3483:MSE:HG2	1.93	0.51
1:B:3583:LEU:O	1:B:3587:ASP:CB	2.58	0.51
1:A:371:GLY:O	1:A:375:VAL:N	2.44	0.51
1:A:421:LEU:C	1:A:423:TYR:H	2.13	0.51
1:A:901:MSE:HG2	1:A:2819:GLU:HG2	1.92	0.51
1:A:968:VAL:HA	1:A:971:ARG:HG2	1.93	0.51
1:A:1073:PHE:CD1	1:A:1074:LYS:N	2.76	0.51
1:A:1894:SER:C	1:A:1896:ILE:N	2.64	0.51
1:A:2952:ILE:O	1:A:2955:SER:OG	2.18	0.51
1:A:3044:MSE:HE3	1:A:3060:SER:OG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3354:ASP:O	1:A:3357:ARG:HB2	2.11	0.51
1:A:3780:ALA:HB1	1:A:3784:ARG:NH1	2.26	0.51
1:A:3954:PRO:CG	1:A:4027:TRP:HA	2.41	0.51
1:B:19:LEU:HB2	1:B:34:LEU:HD22	1.92	0.51
1:B:273:ARG:HE	1:B:314:SER:HB3	1.76	0.51
1:B:981:ARG:HG2	1:B:982:GLN:N	2.26	0.51
1:B:1729:PHE:H	1:B:1730:PRO:HD2	1.75	0.51
1:B:2038:GLU:HB3	1:B:2076:VAL:HG21	1.93	0.51
1:B:2365:ASN:HB2	1:B:2400:VAL:HG13	1.93	0.51
1:B:2470:ARG:HB3	1:B:2474:TYR:CE2	2.45	0.51
1:B:2923:TRP:HD1	1:B:2926:LEU:HD21	1.76	0.51
1:B:3448:GLU:HA	1:B:3451:LEU:HD22	1.91	0.51
1:B:3450:MSE:HG2	1:B:3464:LYS:HG2	1.93	0.51
1:B:3723:ASP:HB2	1:B:3741:ARG:NE	2.26	0.51
1:A:479:ILE:O	1:A:483:VAL:HG13	2.11	0.51
1:A:963:LYS:HB3	1:A:1009:LEU:HD11	1.93	0.51
1:A:2274:ILE:HD11	1:A:2314:GLU:HB3	1.92	0.51
1:A:2375:ALA:HB1	1:A:2411:LEU:HD22	1.93	0.51
1:A:2936:TYR:O	1:A:2940:ARG:CB	2.58	0.51
1:A:3705:TYR:CD2	1:A:3792:SER:HB2	2.46	0.51
1:A:3905:ALA:O	1:A:3908:HIS:N	2.44	0.51
1:B:83:GLU:HG3	1:B:130:LEU:HD13	1.91	0.51
1:B:125:ILE:H	1:B:126:PRO:CD	2.24	0.51
1:B:178:LEU:HB3	1:B:197:PHE:HZ	1.75	0.51
1:B:287:LEU:C	1:B:291:VAL:HB	2.30	0.51
1:B:306:VAL:HG23	1:B:308:LEU:H	1.75	0.51
1:B:714:VAL:CG1	1:B:734:LEU:HD21	2.41	0.51
1:B:913:ARG:HE	1:B:916:GLU:CD	2.14	0.51
1:B:1132:ASP:O	1:B:1135:CYS:N	2.44	0.51
1:B:1700:THR:O	1:B:1702:LEU:N	2.44	0.51
1:B:2928:LYS:HD2	1:B:3783:GLN:HB3	1.93	0.51
1:B:3696:ARG:O	1:B:3699:LEU:HB2	2.11	0.51
1:B:3751:LEU:HD13	1:B:3805:TRP:HB2	1.92	0.51
1:B:3883:LEU:HG	1:B:3970:LEU:HD13	1.93	0.51
1:B:3989:ARG:HH21	1:B:4100:GLU:CB	2.24	0.51
1:A:100:ILE:O	1:A:104:SER:N	2.44	0.51
1:A:273:ARG:HG3	1:A:274:LEU:H	1.76	0.51
1:A:540:MSE:HG2	1:A:541:MSE:H	1.76	0.51
1:A:743:LEU:HD22	1:A:746:ARG:HH12	1.76	0.51
1:A:877:ASP:O	1:A:879:MSE:N	2.44	0.51
1:A:1004:GLN:O	1:A:1008:ALA:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2205:VAL:HB	1:A:2206:PRO:HD3	1.92	0.51
1:A:2356:MSE:SE	1:A:2360:PHE:CZ	3.14	0.51
1:A:3614:TYR:CE1	1:A:3618:GLY:HA3	2.46	0.51
1:B:63:PHE:CD1	1:B:89:LEU:HD13	2.46	0.51
1:B:538:ASP:CB	1:B:627:VAL:HG13	2.39	0.51
1:B:716:VAL:HG11	1:B:1121:LEU:HD13	1.93	0.51
1:B:947:GLN:C	1:B:949:PRO:HD3	2.32	0.51
1:B:1122:GLY:O	1:B:1123:THR:OG1	2.23	0.51
1:B:2495:SER:O	1:B:2498:ILE:HB	2.10	0.51
1:B:2890:ILE:HG21	1:B:2922:ARG:HH12	1.76	0.51
1:B:2943:PHE:O	1:B:2945:SER:N	2.41	0.51
1:B:3518:VAL:HG13	1:B:3554:PHE:CZ	2.46	0.51
1:B:3568:ILE:HD11	1:B:3691:LYS:CD	2.41	0.51
1:B:3572:ILE:HA	1:B:3575:LEU:HB3	1.93	0.51
1:B:3901:ARG:HG2	1:B:3901:ARG:HH11	1.75	0.51
1:B:4077:TYR:OH	1:B:4119:ARG:HG2	2.11	0.51
1:A:84:GLU:O	1:A:88:PHE:HD1	1.94	0.50
1:A:87:LYS:HG2	1:A:133:LYS:CG	2.38	0.50
1:A:406:ARG:O	1:A:409:GLN:N	2.27	0.50
1:A:575:ILE:HD11	1:A:579:LEU:HD22	1.93	0.50
1:A:1342:MSE:HE2	1:A:1398:VAL:HG12	1.93	0.50
1:A:1347:THR:O	1:A:1351:THR:OG1	2.27	0.50
1:A:1472:SER:HA	1:A:1476:HIS:CD2	2.46	0.50
1:A:1521:PHE:O	1:A:1524:LEU:HB2	2.11	0.50
1:A:2323:LEU:HD11	1:A:2345:VAL:HG21	1.93	0.50
1:A:2443:MSE:SE	1:A:2480:ILE:HG21	2.61	0.50
1:A:2464:HIS:H	1:A:2465:PRO:CD	2.24	0.50
1:A:2501:LEU:O	1:A:2505:VAL:HG23	2.10	0.50
1:A:2884:LEU:C	1:A:2887:PRO:HD2	2.32	0.50
1:A:3167:ARG:HG2	1:A:3186:ARG:NE	2.26	0.50
1:A:3280:TYR:CZ	1:A:3304:VAL:HG23	2.46	0.50
1:A:3979:LEU:CA	1:A:3981:TYR:HB3	2.39	0.50
1:A:4038:TRP:CH2	1:A:4040:PRO:HB3	2.46	0.50
1:B:217:LEU:O	1:B:221:ALA:HB2	2.10	0.50
1:B:886:TRP:CD1	1:B:889:GLU:N	2.69	0.50
1:B:928:VAL:O	1:B:932:GLU:HB2	2.11	0.50
1:B:929:ALA:O	1:B:933:LEU:HB2	2.11	0.50
1:B:2152:ASN:CB	1:B:2153:THR:HA	2.36	0.50
1:B:2204:GLY:HA2	1:B:2208:ASP:OD2	2.12	0.50
1:B:2928:LYS:HG3	1:B:3783:GLN:O	2.11	0.50
1:B:3487:ILE:CG2	1:B:3495:PHE:HB2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3505:LEU:HD12	1:B:3509:ASP:HB3	1.91	0.50
1:B:3820:MSE:HB2	1:B:3882:LEU:HD13	1.94	0.50
1:B:3915:HIS:ND1	1:B:3920:ILE:HD12	2.27	0.50
1:A:489:ARG:CZ	1:A:489:ARG:O	2.59	0.50
1:A:1017:ILE:HG23	1:A:1018:VAL:HG13	1.92	0.50
1:A:1063:LEU:O	1:A:1066:LEU:HB3	2.11	0.50
1:A:1584:GLN:O	1:A:1588:ASP:OD1	2.29	0.50
1:A:1789:GLY:O	1:A:1793:THR:HG23	2.12	0.50
1:A:3011:LEU:HB3	1:A:3047:SER:HB3	1.94	0.50
1:A:3768:PHE:O	1:A:3771:MSE:N	2.44	0.50
1:A:3981:TYR:CE1	1:A:4104:VAL:HB	2.46	0.50
1:B:348:ILE:HG23	1:B:357:LYS:HG3	1.93	0.50
1:B:390:GLN:O	1:B:393:LYS:HG2	2.11	0.50
1:B:411:PRO:O	1:B:415:GLN:HB2	2.12	0.50
1:B:419:SER:HA	1:B:422:LEU:HG	1.94	0.50
1:B:743:LEU:O	1:B:746:ARG:HG2	2.11	0.50
1:B:796:LEU:HD22	1:B:799:TYR:HE2	1.76	0.50
1:B:1376:LEU:HG	1:B:1377:CYS:N	2.26	0.50
1:B:1596:VAL:O	1:B:1600:MSE:HG3	2.11	0.50
1:B:2031:LEU:C	1:B:2033:ASP:N	2.64	0.50
1:B:2390:HIS:ND1	1:B:2397:CYS:SG	2.74	0.50
1:B:2462:VAL:CB	1:B:2473:MSE:SE	3.09	0.50
1:B:2935:GLU:O	1:B:2939:LEU:HG	2.10	0.50
1:B:3705:TYR:HE2	1:B:3708:ARG:HH12	1.60	0.50
1:B:3762:GLN:OE1	1:B:3795:PRO:HG3	2.11	0.50
1:A:173:LYS:HA	1:A:176:GLU:OE1	2.11	0.50
1:A:237:SER:O	1:A:278:HIS:HB3	2.10	0.50
1:A:703:CYS:O	1:A:706:LEU:HB2	2.11	0.50
1:A:1042:LYS:HZ1	1:A:1044:ILE:HD12	1.76	0.50
1:A:1350:ASN:ND2	1:A:1404:LYS:HG2	2.27	0.50
1:A:1698:PHE:CD1	1:A:1699:PHE:N	2.79	0.50
1:A:1815:THR:C	1:A:1816:ARG:HE	2.14	0.50
1:A:2095:ALA:HB3	1:A:2096:PRO:HD3	1.92	0.50
1:A:2190:VAL:HA	1:A:2193:ILE:HG22	1.93	0.50
1:A:2216:LEU:O	1:A:2220:MSE:HG3	2.11	0.50
1:A:2254:ARG:HG3	1:A:2255:LEU:N	2.27	0.50
1:A:2339:GLU:O	1:A:2343:GLU:HG3	2.10	0.50
1:A:3007:GLU:OE2	1:A:3046:ARG:HD3	2.10	0.50
1:A:3108:GLN:HA	1:A:3111:MSE:HG3	1.94	0.50
1:A:3780:ALA:HB1	1:A:3784:ARG:HH12	1.77	0.50
1:B:410:MSE:HE1	1:B:445:SER:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1036:PHE:CZ	1:B:1082:PHE:HE2	2.29	0.50
1:B:1076:LEU:HD11	1:B:1114:ALA:HB1	1.93	0.50
1:B:1238:GLN:HB2	1:B:1239:PRO:HD3	1.94	0.50
1:B:1469:PRO:HA	1:B:1472:SER:CB	2.38	0.50
1:B:2088:LEU:O	1:B:2092:GLU:N	2.43	0.50
1:B:2145:PHE:CE1	1:B:2188:GLU:HB3	2.47	0.50
1:B:3072:GLU:HG3	1:B:3080:LEU:HD11	1.94	0.50
1:B:3789:ARG:NH2	1:B:3806:LEU:HD22	2.26	0.50
1:A:232:CYS:SG	1:A:274:LEU:HD13	2.51	0.50
1:A:367:GLY:C	1:A:369:PHE:N	2.64	0.50
1:A:568:PHE:CZ	1:A:653:LEU:HG	2.47	0.50
1:A:767:GLU:O	1:A:771:ASN:HB2	2.10	0.50
1:A:964:ARG:N	1:A:1009:LEU:HD13	2.26	0.50
1:A:1265:GLU:O	1:A:1269:THR:HG23	2.10	0.50
1:A:1751:GLU:HG2	1:A:1870:LYS:CE	2.39	0.50
1:A:1856:THR:O	1:A:1860:GLU:HB2	2.12	0.50
1:A:1882:SER:C	1:A:1885:PRO:HD2	2.32	0.50
1:A:2000:ARG:HG2	1:A:2001:LYS:HG3	1.92	0.50
1:A:2097:LEU:HD13	1:A:2143:ARG:HG2	1.93	0.50
1:A:2379:MSE:O	1:A:2383:PHE:HB2	2.11	0.50
1:A:2386:LEU:HD11	1:A:2400:VAL:HG12	1.94	0.50
1:A:2956:ALA:HA	1:A:2965:TYR:OH	2.11	0.50
1:B:554:ASN:O	1:B:557:SER:HB2	2.11	0.50
1:B:852:ARG:CZ	1:B:3111:MSE:SE	3.09	0.50
1:B:1162:SER:N	1:B:1165:LEU:HD12	2.20	0.50
1:B:1220:LEU:HD13	1:B:1274:ARG:CG	2.41	0.50
1:B:1503:LEU:O	1:B:1507:CYS:HB3	2.11	0.50
1:B:1956:PHE:HB3	1:B:1998:MSE:HE1	1.93	0.50
1:B:2129:LEU:HD13	1:B:2156:VAL:HG13	1.93	0.50
1:B:2220:MSE:SE	1:B:2256:ILE:CD1	3.10	0.50
1:B:3962:ARG:HD3	1:B:4124:TRP:CE3	2.46	0.50
1:A:487:LEU:O	1:A:490:ILE:HG22	2.11	0.50
1:A:1102:GLU:O	1:A:1105:VAL:HG22	2.12	0.50
1:A:1107:TYR:HE1	1:A:1111:LEU:HD13	1.75	0.50
1:A:1678:LEU:O	1:A:1682:THR:HG22	2.12	0.50
1:A:1886:LYS:NZ	1:A:1924:THR:HB	2.23	0.50
1:A:1922:ALA:HA	1:A:1925:GLU:OE2	2.11	0.50
1:A:3593:ARG:HD2	1:A:3660:ASN:O	2.12	0.50
1:A:3763:ARG:O	1:A:3767:LEU:HB2	2.12	0.50
1:A:3901:ARG:HG2	1:A:3901:ARG:NH1	2.26	0.50
1:A:3962:ARG:HD3	1:A:4124:TRP:CE3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3981:TYR:O	1:A:3985:VAL:HG23	2.11	0.50
1:B:67:VAL:O	1:B:71:LYS:CB	2.41	0.50
1:B:385:TYR:CD1	1:B:420:VAL:HG13	2.40	0.50
1:B:527:TYR:CE1	1:B:615:ALA:HA	2.46	0.50
1:B:1039:TRP:HH2	1:B:1052:SER:HB3	1.76	0.50
1:B:1101:PHE:O	1:B:1104:LEU:HB2	2.12	0.50
1:B:3151:LEU:O	1:B:3156:PRO:HD3	2.11	0.50
1:B:3810:VAL:HG23	1:B:3815:LEU:HD11	1.93	0.50
1:A:85:ILE:O	1:A:89:LEU:HG	2.10	0.50
1:A:175:TYR:OH	1:A:204:LEU:HD11	2.10	0.50
1:A:288:ASP:N	1:A:288:ASP:OD1	2.43	0.50
1:A:801:LYS:O	1:A:805:LEU:HB2	2.11	0.50
1:A:913:ARG:HB2	1:A:934:LEU:HD12	1.93	0.50
1:A:954:GLY:O	1:A:957:PRO:HD2	2.12	0.50
1:A:1502:SER:O	1:A:1505:LEU:N	2.43	0.50
1:A:2166:SER:O	1:A:2170:GLN:HB3	2.12	0.50
1:A:3674:SER:O	1:A:3677:PRO:HD2	2.12	0.50
1:A:4007:LYS:CG	1:A:4041:ARG:HD2	2.35	0.50
1:B:68:PHE:O	1:B:72:SER:OG	2.10	0.50
1:B:512:GLY:CA	1:B:602:MSE:HG3	2.40	0.50
1:B:722:LYS:HB3	1:B:727:ALA:CA	2.42	0.50
1:B:734:LEU:C	1:B:737:PRO:HD2	2.32	0.50
1:B:1406:LEU:HA	1:B:1410:PRO:HG3	1.94	0.50
1:B:1406:LEU:O	1:B:1415:LEU:HD21	2.12	0.50
1:B:2352:HIS:CD2	1:B:2364:LEU:HD21	2.47	0.50
1:B:2430:GLU:OE1	1:B:2433:LYS:HE3	2.11	0.50
1:B:2936:TYR:CZ	1:B:2940:ARG:HD2	2.47	0.50
1:B:3648:GLY:O	1:B:3651:LEU:HB2	2.11	0.50
1:B:3766:GLN:O	1:B:3770:VAL:HG23	2.11	0.50
1:A:66:LEU:CD2	1:A:89:LEU:HD11	2.42	0.50
1:A:334:HIS:O	1:A:338:LEU:HD11	2.12	0.50
1:A:676:ASN:O	1:A:680:ILE:HG13	2.11	0.50
1:A:743:LEU:HG	1:A:783:HIS:CE1	2.44	0.50
1:A:1036:PHE:CZ	1:A:1082:PHE:HE2	2.30	0.50
1:A:1741:ASP:O	1:A:1745:LYS:HG3	2.11	0.50
1:A:2318:ALA:O	1:A:2322:VAL:HB	2.12	0.50
1:A:3049:LEU:HA	1:A:3188:PHE:CZ	2.46	0.50
1:A:3525:TYR:CZ	1:A:3533:PHE:HE1	2.30	0.50
1:A:3998:LEU:O	1:A:4001:THR:OG1	2.28	0.50
1:B:152:LEU:O	1:B:156:PHE:HD1	1.95	0.50
1:B:368:LEU:HA	1:B:372:PRO:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:888:ARG:HA	1:B:907:LEU:HD21	1.94	0.50
1:B:1357:LYS:HG3	1:B:1360:LYS:NZ	2.26	0.50
1:B:1696:LEU:HD23	1:B:1700:THR:HG21	1.92	0.50
1:B:1756:PRO:O	1:B:1758:LEU:N	2.34	0.50
1:B:1894:SER:O	1:B:1896:ILE:N	2.44	0.50
1:B:1972:GLU:CD	1:B:1987:ARG:HH12	2.14	0.50
1:B:2320:ALA:HB1	1:B:2370:SER:OG	2.10	0.50
1:B:2389:PHE:CD2	1:B:2396:LEU:HD22	2.46	0.50
1:B:2536:LEU:O	1:B:2539:LEU:HB2	2.11	0.50
1:B:3726:VAL:HG21	1:B:3736:LYS:HD3	1.93	0.50
1:B:4066:LEU:HD23	1:B:4075:ARG:HG3	1.94	0.50
1:A:293:LEU:O	1:A:296:VAL:HG12	2.12	0.50
1:A:741:ILE:O	1:A:743:LEU:N	2.45	0.50
1:A:969:LEU:O	1:A:973:ALA:CB	2.60	0.50
1:A:1086:TYR:HD2	1:A:1090:ARG:HG2	1.76	0.50
1:A:1106:ILE:O	1:A:1109:GLU:HB3	2.12	0.50
1:A:1298:LEU:HA	1:A:1301:ILE:HB	1.94	0.50
1:A:1433:ALA:O	1:A:1437:TYR:CD2	2.65	0.50
1:A:1604:SER:HA	1:A:1632:TRP:CE3	2.47	0.50
1:A:1956:PHE:HB3	1:A:1998:MSE:CE	2.41	0.50
1:A:2512:ASP:H	1:A:2519:LEU:HD12	1.76	0.50
1:A:2814:SER:O	1:A:2818:LYS:HB2	2.11	0.50
1:A:3464:LYS:O	1:A:3467:ARG:HB3	2.12	0.50
1:A:3498:TRP:HD1	1:A:3498:TRP:O	1.95	0.50
1:A:3789:ARG:CZ	1:A:3806:LEU:HD22	2.40	0.50
1:A:4066:LEU:HD21	1:A:4078:VAL:HG21	1.94	0.50
1:B:175:TYR:HD2	1:B:222:GLY:HA3	1.76	0.50
1:B:898:PHE:CE2	1:B:2566:THR:HG21	2.47	0.50
1:B:966:PHE:CE2	1:B:988:VAL:HG12	2.47	0.50
1:B:1074:LYS:O	1:B:1075:ARG:HG3	2.12	0.50
1:B:1586:SER:HB3	1:B:1643:MSE:HE1	1.94	0.50
1:B:1736:PHE:O	1:B:1740:VAL:HG23	2.11	0.50
1:B:1816:ARG:HB3	1:B:1819:PHE:CE1	2.45	0.50
1:B:2080:VAL:HG12	1:B:2081:LEU:H	1.75	0.50
1:B:2212:ALA:O	1:B:2215:LEU:N	2.44	0.50
1:B:2879:GLY:HA2	1:B:2886:GLN:CG	2.29	0.50
1:B:2960:GLU:O	1:B:2965:TYR:CD1	2.65	0.50
1:B:2964:ASP:O	1:B:2968:ALA:HB2	2.12	0.50
1:B:3179:TRP:CZ2	1:B:3258:LEU:HG	2.47	0.50
1:B:3383:GLN:HG3	1:B:3438:GLU:OE2	2.12	0.50
1:B:3510:GLN:O	1:B:3512:VAL:N	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3572:ILE:HD13	1:B:3575:LEU:HD22	1.94	0.50
1:A:629:PHE:HA	1:A:634:LEU:HD21	1.91	0.50
1:A:1655:ILE:CD1	1:A:1681:ASP:HB3	2.40	0.50
1:A:1747:LEU:O	1:A:1750:LEU:N	2.41	0.50
1:A:1935:GLU:HB2	1:A:1986:ARG:NH2	2.27	0.50
1:A:2171:LEU:CG	1:A:2177:ASN:HD21	2.25	0.50
1:A:2416:LYS:O	1:A:2420:PHE:HB3	2.12	0.50
1:A:2538:ARG:HH22	1:A:2566:THR:CG2	2.25	0.50
1:A:3495:PHE:CZ	1:A:3521:ILE:HG13	2.47	0.50
1:A:3865:THR:O	1:A:3869:THR:OG1	2.14	0.50
1:B:12:LEU:HD13	1:B:42:CYS:SG	2.52	0.50
1:B:1299:GLU:OE2	1:B:1367:HIS:HB2	2.12	0.50
1:B:1348:LEU:O	1:B:1352:SER:N	2.34	0.50
1:B:1455:CYS:O	1:B:1458:LEU:HB2	2.11	0.50
1:B:1882:SER:C	1:B:1885:PRO:HD2	2.33	0.50
1:B:2922:ARG:HD3	1:B:2930:TYR:HD1	1.77	0.50
1:B:3141:PHE:CZ	1:B:3192:LYS:HB2	2.47	0.50
1:B:3277:VAL:HG23	1:B:3324:ARG:HD2	1.94	0.50
1:B:3503:VAL:HG21	1:B:3535:ILE:O	2.12	0.50
1:B:3507:ASP:CG	1:B:3540:TYR:HA	2.32	0.50
1:A:232:CYS:HG	1:A:275:PHE:HE1	1.60	0.49
1:A:242:PRO:HD3	1:A:282:PHE:CD2	2.47	0.49
1:A:569:VAL:HG13	1:A:570:LYS:H	1.77	0.49
1:A:1014:LEU:HB2	1:A:1078:ALA:CB	2.41	0.49
1:A:2135:ASN:N	1:A:2136:PRO:CD	2.75	0.49
1:A:2196:TRP:HE1	1:A:2200:ALA:HB2	1.77	0.49
1:A:2373:PRO:HA	1:A:2378:PHE:HZ	1.77	0.49
1:A:3397:GLN:HB3	1:A:3398:PRO:CD	2.42	0.49
1:A:3989:ARG:HH21	1:A:4100:GLU:HB2	1.77	0.49
1:A:4090:ARG:NH1	1:A:4106:CYS:HA	2.20	0.49
1:B:294:PHE:CZ	1:B:319:PHE:CD2	2.96	0.49
1:B:428:PRO:HB3	1:B:1679:LEU:HD13	1.94	0.49
1:B:661:PRO:HG2	1:B:733:LEU:HA	1.93	0.49
1:B:1553:PHE:O	1:B:1557:GLU:HB2	2.12	0.49
1:B:2157:PHE:O	1:B:2160:TYR:N	2.45	0.49
1:B:2373:PRO:HB3	1:B:2407:GLY:O	2.11	0.49
1:B:2485:ARG:HH11	1:B:2530:ARG:CZ	2.25	0.49
1:B:2939:LEU:HD21	1:B:2994:TRP:CE2	2.47	0.49
1:B:2957:LEU:CA	1:B:3989:ARG:HH22	2.24	0.49
1:B:3484:THR:HA	1:B:3516:HIS:HE2	1.77	0.49
1:B:3858:MSE:HG3	1:B:4119:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:PHE:O	1:A:66:LEU:HG	2.13	0.49
1:A:455:LEU:HD13	1:A:459:ARG:CZ	2.42	0.49
1:A:476:ARG:HA	1:A:479:ILE:HD12	1.93	0.49
1:A:617:PRO:HB3	1:A:659:ARG:CG	2.41	0.49
1:A:730:LEU:O	1:A:734:LEU:HG	2.12	0.49
1:A:1905:ILE:HG23	1:A:1951:VAL:HG21	1.94	0.49
1:A:2066:PHE:HB3	1:A:2067:ARG:CG	2.41	0.49
1:A:2168:LEU:HD13	1:A:2214:ARG:NE	2.27	0.49
1:A:2177:ASN:ND2	1:A:2182:ILE:HA	2.28	0.49
1:A:2255:LEU:HA	1:A:2258:GLU:HB2	1.94	0.49
1:A:2936:TYR:HB3	1:A:3979:LEU:CD1	2.41	0.49
1:A:3531:TYR:HB3	1:A:3532:PRO:HD3	1.93	0.49
1:A:3578:LEU:HD11	1:A:3686:TRP:HZ3	1.77	0.49
1:B:114:VAL:HG12	1:B:130:LEU:HD21	1.94	0.49
1:B:805:LEU:HD23	1:B:808:GLU:OE2	2.13	0.49
1:B:1927:MSE:C	1:B:1929:GLY:H	2.15	0.49
1:B:1965:PHE:O	1:B:1968:SER:OG	2.18	0.49
1:B:2220:MSE:HB3	1:B:2224:PHE:CZ	2.47	0.49
1:B:2447:LYS:N	1:B:2448:PRO:HD2	2.28	0.49
1:B:2458:VAL:HA	1:B:2461:PHE:CD2	2.45	0.49
1:B:2961:ALA:HB1	1:B:3002:TYR:HB2	1.94	0.49
1:B:3272:TRP:CE3	1:B:3307:LEU:HD21	2.46	0.49
1:B:3280:TYR:CZ	1:B:3304:VAL:HG23	2.47	0.49
1:B:3774:ILE:HG22	1:B:3775:LEU:HD23	1.94	0.49
1:A:39:GLY:O	1:A:43:VAL:HG23	2.12	0.49
1:A:47:SER:N	1:A:51:LEU:HD12	2.27	0.49
1:A:282:PHE:CD1	1:A:283:SER:N	2.80	0.49
1:A:884:VAL:HG22	1:A:888:ARG:HG2	1.93	0.49
1:A:965:THR:HA	1:A:968:VAL:CG1	2.42	0.49
1:A:986:PRO:O	1:A:990:GLN:HG2	2.12	0.49
1:A:1119:LYS:NZ	1:A:1256:TRP:HZ2	2.10	0.49
1:A:1389:VAL:O	1:A:1389:VAL:HG12	2.12	0.49
1:A:1469:PRO:HA	1:A:1472:SER:CB	2.42	0.49
1:A:1574:ASN:CB	1:A:1582:LEU:HD21	2.40	0.49
1:A:2393:LEU:HD13	1:A:2426:HIS:CD2	2.46	0.49
1:A:3005:LEU:O	1:A:3180:ASP:OD2	2.30	0.49
1:A:3012:GLU:HB2	1:A:3050:LYS:NZ	2.27	0.49
1:B:319:PHE:O	1:B:323:VAL:HG23	2.12	0.49
1:B:533:HIS:O	1:B:537:SER:HB3	2.13	0.49
1:B:941:MSE:HE3	1:B:958:MSE:HG3	1.95	0.49
1:B:1010:LEU:HD13	1:B:1028:PHE:CE1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1907:GLU:O	1:B:1911:LEU:HG	2.11	0.49
1:B:2328:ARG:O	1:B:2332:GLU:HG2	2.13	0.49
1:B:3326:GLN:CB	1:B:3393:GLU:HG2	2.38	0.49
1:B:3493:TRP:CD1	1:B:3710:LYS:O	2.65	0.49
1:B:3923:ARG:HB3	1:B:3962:ARG:HH12	1.78	0.49
1:A:86:LEU:HD13	1:A:134:LEU:CD2	2.42	0.49
1:A:318:SER:O	1:A:321:LYS:HB2	2.12	0.49
1:A:390:GLN:NE2	1:A:1723:PRO:HG2	2.28	0.49
1:A:481:THR:HG23	1:A:559:SER:OG	2.13	0.49
1:A:680:ILE:HG12	1:A:701:TYR:CE1	2.48	0.49
1:A:1121:LEU:HG	1:A:1122:GLY:H	1.75	0.49
1:A:1491:ILE:N	1:A:1497:ARG:HH12	2.10	0.49
1:A:1751:GLU:OE2	1:A:1884:LEU:HD13	2.11	0.49
1:A:1811:ARG:O	1:A:1815:THR:HG23	2.12	0.49
1:A:2280:VAL:HG13	1:A:2287:PRO:HB2	1.93	0.49
1:A:2420:PHE:CE1	1:A:2439:ILE:HG21	2.46	0.49
1:A:2927:ALA:HB2	1:A:3121:LEU:HD22	1.93	0.49
1:A:3174:ASP:N	1:A:3175:PRO:HD2	2.17	0.49
1:A:3620:PRO:HB3	1:A:3633:ILE:HD12	1.94	0.49
1:B:103:TYR:O	1:B:107:ILE:HG13	2.13	0.49
1:B:334:HIS:O	1:B:338:LEU:HD11	2.12	0.49
1:B:560:LEU:HD11	1:B:645:TRP:HZ2	1.74	0.49
1:B:954:GLY:O	1:B:957:PRO:HD2	2.11	0.49
1:B:1086:TYR:CE2	1:B:1090:ARG:HG2	2.48	0.49
1:B:1139:GLU:HG3	1:B:1175:HIS:CD2	2.47	0.49
1:B:1702:LEU:O	1:B:1706:SER:CB	2.61	0.49
1:B:2193:ILE:HA	1:B:2196:TRP:CE2	2.48	0.49
1:B:2847:THR:HB	1:B:2850:PHE:CD2	2.47	0.49
1:B:3163:THR:OG1	1:B:3167:ARG:NH2	2.43	0.49
1:B:3323:PHE:CE1	1:B:3324:ARG:HG3	2.48	0.49
1:A:396:PHE:CG	1:A:397:LEU:N	2.80	0.49
1:A:745:VAL:HG11	1:A:776:TRP:HZ2	1.78	0.49
1:A:767:GLU:CG	1:A:851:ILE:HD11	2.40	0.49
1:A:808:GLU:OE1	1:A:3114:TYR:HB3	2.13	0.49
1:A:1145:LEU:HD22	1:A:1149:LYS:HZ3	1.78	0.49
1:A:1155:ARG:HH12	1:A:1159:PRO:CD	2.21	0.49
1:A:1158:PRO:HB2	1:A:1159:PRO:HD3	1.95	0.49
1:A:1475:LEU:O	1:A:1478:SER:HB3	2.13	0.49
1:A:1808:ASP:OD1	1:A:1809:ASP:N	2.45	0.49
1:A:2027:SER:HB2	1:A:2030:TYR:OH	2.12	0.49
1:A:2144:LEU:C	1:A:2148:LYS:HE3	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2944:THR:HG21	1:A:2983:ASP:OD2	2.12	0.49
1:A:2970:LYS:NZ	1:A:3013:TYR:OH	2.44	0.49
1:A:4012:ASP:C	1:A:4016:PHE:HB2	2.33	0.49
1:B:407:VAL:O	1:B:449:TYR:HE1	1.95	0.49
1:B:437:HIS:CD2	1:B:438:LEU:N	2.80	0.49
1:B:604:PRO:HG2	1:B:607:ASP:OD1	2.13	0.49
1:B:638:GLN:HG3	1:B:667:TYR:CD2	2.48	0.49
1:B:708:VAL:HG22	1:B:744:ASP:OD2	2.12	0.49
1:B:855:VAL:HG12	1:B:859:LEU:HD11	1.93	0.49
1:B:964:ARG:O	1:B:967:PRO:HD2	2.11	0.49
1:B:977:ASP:HB3	1:B:981:ARG:N	2.26	0.49
1:B:978:GLN:HA	1:B:981:ARG:NE	2.21	0.49
1:B:1645:VAL:HG22	1:B:1709:GLU:OE1	2.13	0.49
1:B:1945:TYR:CD1	1:B:1948:ALA:HB3	2.47	0.49
1:B:2094:MSE:O	1:B:2098:THR:HG23	2.13	0.49
1:B:2358:ASP:O	1:B:2361:ILE:HG22	2.12	0.49
1:B:2423:VAL:HG22	1:B:2424:MSE:N	2.27	0.49
1:B:2806:LYS:NZ	1:B:2858:ILE:HG13	2.26	0.49
1:B:2913:LYS:O	1:B:2915:ARG:N	2.45	0.49
1:B:3259:LEU:HD21	1:B:3279:SER:HB2	1.94	0.49
1:B:3696:ARG:HB2	1:B:3699:LEU:HB2	1.95	0.49
1:B:3825:LYS:HB2	1:B:3829:LEU:HD13	1.93	0.49
1:A:203:GLU:O	1:A:207:GLN:CB	2.55	0.49
1:A:704:PHE:O	1:A:707:PHE:HB2	2.11	0.49
1:A:871:LEU:HD11	1:A:3122:HIS:CE1	2.42	0.49
1:A:1060:PHE:HB3	1:A:1064:TYR:HE2	1.78	0.49
1:A:2320:ALA:CA	1:A:2367:VAL:HG23	2.42	0.49
1:A:2352:HIS:CD2	1:A:2364:LEU:HD21	2.48	0.49
1:A:2960:GLU:HG3	1:A:3289:ARG:HH22	1.77	0.49
1:A:3356:ALA:CB	1:A:3384:HIS:HB3	2.43	0.49
1:B:63:PHE:CE1	1:B:89:LEU:HD22	2.47	0.49
1:B:352:VAL:HG23	1:B:357:LYS:H	1.77	0.49
1:B:903:PRO:O	1:B:905:ILE:HG13	2.12	0.49
1:B:992:ILE:HD13	1:B:1031:ARG:HB3	1.95	0.49
1:B:1107:TYR:O	1:B:1111:LEU:N	2.40	0.49
1:B:2452:ARG:HG2	1:B:2498:ILE:HD11	1.94	0.49
1:B:3266:SER:HB2	1:B:3271:ASP:OD1	2.12	0.49
1:B:3793:VAL:O	1:B:3795:PRO:HD3	2.12	0.49
1:A:21:ALA:HA	1:A:24:ARG:HG3	1.94	0.49
1:A:892:LEU:H	1:A:907:LEU:HD22	1.78	0.49
1:A:899:ARG:HH22	1:A:2570:PRO:CB	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:933:LEU:HD22	1:A:2795:GLN:HA	1.93	0.49
1:A:1102:GLU:O	1:A:1105:VAL:HG13	2.13	0.49
1:A:1643:MSE:O	1:A:1646:LEU:N	2.46	0.49
1:A:1723:PRO:C	1:A:1725:GLN:N	2.66	0.49
1:A:2097:LEU:HA	1:A:2100:LEU:HB3	1.94	0.49
1:A:2148:LYS:NZ	1:A:2188:GLU:HG2	2.27	0.49
1:A:2511:ILE:HA	1:A:2519:LEU:HD12	1.94	0.49
1:A:2542:LEU:HD12	1:A:2543:ASN:N	2.28	0.49
1:A:2567:SER:O	1:A:2571:ASP:HB2	2.11	0.49
1:A:3152:SER:HB2	1:A:3155:VAL:HB	1.94	0.49
1:B:388:LEU:HG	1:B:420:VAL:HG21	1.94	0.49
1:B:479:ILE:O	1:B:483:VAL:HG13	2.12	0.49
1:B:789:TYR:CD2	1:B:865:GLN:HG3	2.47	0.49
1:B:1033:ILE:HA	1:B:1036:PHE:CD2	2.48	0.49
1:B:1960:LYS:HA	1:B:1963:GLN:OE1	2.13	0.49
1:B:2222:HIS:O	1:B:2226:PRO:HD2	2.12	0.49
1:B:2854:PHE:CE1	1:B:2878:ALA:HA	2.48	0.49
1:B:2999:LEU:HD12	1:B:3002:TYR:CE2	2.46	0.49
1:B:3003:ASN:O	1:B:3006:ALA:N	2.46	0.49
1:B:3163:THR:O	1:B:3167:ARG:HB2	2.13	0.49
1:B:3501:HIS:O	1:B:3505:LEU:HD13	2.12	0.49
1:B:3576:ASP:C	1:B:3578:LEU:HG	2.33	0.49
1:B:3667:LEU:HA	1:B:3670:MSE:HG2	1.92	0.49
1:B:3906:SER:O	1:B:3910:LEU:HD13	2.12	0.49
1:A:134:LEU:O	1:A:137:THR:OG1	2.25	0.49
1:A:270:ALA:HA	1:A:273:ARG:HG2	1.95	0.49
1:A:729:CYS:HA	1:A:732:PHE:CE2	2.48	0.49
1:A:1044:ILE:O	1:A:1045:THR:OG1	2.28	0.49
1:A:1407:LYS:HG2	1:A:1462:GLY:N	2.28	0.49
1:A:2245:TRP:HA	1:A:2245:TRP:CE3	2.48	0.49
1:A:2365:ASN:HA	1:A:2368:THR:HB	1.94	0.49
1:A:2412:TYR:CD2	1:A:2416:LYS:HG3	2.47	0.49
1:A:3052:LEU:HD13	1:A:3061:LEU:HG	1.94	0.49
1:A:3179:TRP:CZ2	1:A:3258:LEU:HG	2.46	0.49
1:A:3510:GLN:OE1	1:A:3513:ALA:HB2	2.13	0.49
1:A:3525:TYR:OH	1:A:3561:LYS:HB2	2.13	0.49
1:A:3885:ARG:HG3	1:A:3889:ARG:HD3	1.95	0.49
1:A:3929:MSE:O	1:A:3938:ILE:HG13	2.12	0.49
1:B:63:PHE:HD1	1:B:89:LEU:HD13	1.78	0.49
1:B:712:LYS:O	1:B:716:VAL:HG23	2.13	0.49
1:B:1007:VAL:HA	1:B:1010:LEU:CD1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1220:LEU:O	1:B:1223:THR:OG1	2.26	0.49
1:B:1280:GLN:HA	1:B:1361:LYS:HZ2	1.75	0.49
1:B:1459:HIS:NE2	1:B:1509:GLN:O	2.46	0.49
1:B:1726:SER:HB2	1:B:1869:LYS:HD2	1.94	0.49
1:B:1751:GLU:O	1:B:1755:SER:N	2.42	0.49
1:B:3117:ILE:CD1	1:B:3125:ARG:HH11	2.06	0.49
1:B:3293:CYS:O	1:B:3297:VAL:HB	2.13	0.49
1:B:3570:ASP:O	1:B:3573:ASN:HB3	2.13	0.49
1:B:3657:SER:O	1:B:3660:ASN:HB2	2.13	0.49
1:B:3971:MSE:HE2	1:B:3976:GLU:OE2	2.13	0.49
1:A:175:TYR:HB2	1:A:222:GLY:C	2.33	0.49
1:A:442:GLN:HA	1:A:445:SER:OG	2.12	0.49
1:A:1139:GLU:HG3	1:A:1175:HIS:CD2	2.48	0.49
1:A:1684:LEU:HA	1:A:1687:HIS:HD2	1.77	0.49
1:A:2274:ILE:CD1	1:A:2314:GLU:HB3	2.43	0.49
1:A:3103:ILE:HD13	1:A:3139:GLN:OE1	2.13	0.49
1:A:3984:MSE:SE	1:A:4108:MSE:HE2	2.63	0.49
1:B:249:PHE:HB3	1:B:297:LEU:HD13	1.93	0.49
1:B:793:LEU:HA	1:B:796:LEU:HB2	1.94	0.49
1:B:891:ARG:HD2	1:B:905:ILE:HG12	1.94	0.49
1:B:1493:PRO:HG2	1:B:1495:ASP:HB2	1.94	0.49
1:B:2161:ALA:CB	1:B:2211:LEU:HD13	2.39	0.49
1:B:2357:GLU:OE1	1:B:2388:LYS:NZ	2.42	0.49
1:B:2778:GLY:O	1:B:2781:PRO:HD2	2.13	0.49
1:B:3522:THR:O	1:B:3526:PRO:HD3	2.13	0.49
1:B:3974:MSE:CG	1:B:3976:GLU:HB3	2.43	0.49
1:B:4041:ARG:HB2	1:B:4042:GLN:OE1	2.12	0.49
1:A:903:PRO:HD2	1:A:904:VAL:HG23	1.95	0.49
1:A:927:LYS:HD3	1:A:976:VAL:HG12	1.94	0.49
1:A:1113:LEU:HA	1:A:1116:ALA:HB3	1.94	0.49
1:A:1695:LEU:HA	1:A:1698:PHE:CE2	2.48	0.49
1:A:1762:MSE:HE3	1:A:1864:ASP:OD1	2.13	0.49
1:A:3045:ILE:O	1:A:3048:LYS:HE2	2.13	0.49
1:A:3186:ARG:HD3	1:A:3242:MSE:SE	2.63	0.49
1:A:3247:ARG:HH21	1:A:3277:VAL:HG23	1.78	0.49
1:A:3651:LEU:HA	1:A:3654:MSE:HB2	1.95	0.49
1:A:3962:ARG:NH1	1:A:4124:TRP:CH2	2.81	0.49
1:B:485:GLN:HA	1:B:488:ILE:HG12	1.94	0.49
1:B:567:GLU:HB3	1:B:606:SER:CB	2.43	0.49
1:B:990:GLN:HA	1:B:993:HIS:HD2	1.77	0.49
1:B:1219:PHE:O	1:B:1223:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2467:THR:HA	1:B:2470:ARG:HG3	1.93	0.49
1:B:2842:ARG:O	1:B:2846:THR:HG23	2.11	0.49
1:B:2887:PRO:CB	1:B:2922:ARG:HH11	2.11	0.49
1:B:3034:PRO:CG	1:B:3037:GLN:HB2	2.39	0.49
1:A:174:VAL:O	1:A:178:LEU:HG	2.13	0.48
1:A:181:LEU:HD13	1:A:189:MSE:HE2	1.95	0.48
1:A:760:LEU:HD23	1:A:803:SER:HB3	1.95	0.48
1:A:901:MSE:HE1	1:A:2539:LEU:CD2	2.43	0.48
1:A:925:GLN:OE1	1:A:925:GLN:N	2.39	0.48
1:A:2990:GLU:O	1:A:2994:TRP:HD1	1.96	0.48
1:A:3468:LEU:HD13	1:A:3483:MSE:HE1	1.93	0.48
1:A:3547:THR:HG21	1:A:3552:LYS:HB2	1.94	0.48
1:A:3648:GLY:O	1:A:3651:LEU:HB2	2.13	0.48
1:B:13:LEU:O	1:B:16:GLN:HG2	2.13	0.48
1:B:20:SER:HB2	1:B:65:LEU:HD22	1.95	0.48
1:B:613:HIS:O	1:B:617:PRO:HG2	2.13	0.48
1:B:1059:LEU:O	1:B:1063:LEU:HG	2.13	0.48
1:B:1959:LEU:CD1	1:B:1998:MSE:HE3	2.32	0.48
1:B:1976:LEU:HG	1:B:1978:PHE:H	1.77	0.48
1:B:2602:UNK:CB	1:B:2793:PRO:HG3	2.43	0.48
1:B:3061:LEU:HD21	1:B:3089:LEU:HD13	1.95	0.48
1:B:3155:VAL:N	1:B:3156:PRO:HD2	2.28	0.48
1:B:3972:LEU:O	1:B:3974:MSE:HG2	2.13	0.48
1:B:4085:LYS:HA	1:B:4088:ASN:CB	2.43	0.48
1:A:14:ARG:HD2	1:A:2358:ASP:OD2	2.13	0.48
1:A:398:THR:HG22	1:A:1865:THR:HG21	1.94	0.48
1:A:531:PHE:CE2	1:A:619:ASP:HB2	2.47	0.48
1:A:1122:GLY:O	1:A:1123:THR:OG1	2.29	0.48
1:A:1170:LYS:HD3	1:A:1267:TYR:CG	2.48	0.48
1:A:1722:PHE:H	1:A:1723:PRO:CD	2.26	0.48
1:A:1869:LYS:O	1:A:1873:TYR:HD1	1.96	0.48
1:A:2110:PRO:HB2	1:A:2111:PRO:HD3	1.95	0.48
1:A:2171:LEU:HG	1:A:2177:ASN:HD21	1.78	0.48
1:A:2193:ILE:HD11	1:A:2245:TRP:CZ2	2.48	0.48
1:A:3247:ARG:NH2	1:A:3277:VAL:HG23	2.27	0.48
1:A:3684:SER:HB3	1:A:3726:VAL:CG1	2.42	0.48
1:A:3950:THR:OG1	1:A:3957:GLU:O	2.22	0.48
1:A:3963:LEU:HG	1:A:3967:PHE:CE1	2.47	0.48
1:A:3974:MSE:HB3	1:A:3976:GLU:N	2.23	0.48
1:A:4103:GLN:H	1:A:4103:GLN:CD	2.17	0.48
1:B:280:SER:HB3	1:B:322:GLN:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:575:ILE:HG12	1:B:579:LEU:HB2	1.95	0.48
1:B:669:LEU:HD13	1:B:672:ILE:HD12	1.95	0.48
1:B:1076:LEU:C	1:B:1078:ALA:H	2.16	0.48
1:B:1238:GLN:NE2	1:B:1298:LEU:HG	2.28	0.48
1:B:1365:ASN:HA	1:B:1368:LEU:HD21	1.94	0.48
1:B:1708:GLU:HB2	1:B:1709:GLU:CD	2.33	0.48
1:B:1996:VAL:CG1	1:B:2048:GLY:HA2	2.37	0.48
1:B:2322:VAL:O	1:B:2326:ILE:HG12	2.13	0.48
1:B:3228:SER:O	1:B:3231:ILE:HB	2.13	0.48
1:B:3284:SER:HA	1:B:3287:ARG:NE	2.09	0.48
1:B:3788:LEU:HD13	1:B:3907:SER:HA	1.96	0.48
1:B:3901:ARG:HG2	1:B:3901:ARG:NH1	2.27	0.48
1:B:4066:LEU:HG	1:B:4075:ARG:HA	1.95	0.48
1:A:583:LEU:HD23	1:A:592:GLU:OE2	2.13	0.48
1:A:848:LEU:HA	1:A:851:ILE:CD1	2.44	0.48
1:A:940:PHE:HZ	1:A:2791:ILE:HG21	1.73	0.48
1:A:2213:ASN:HB2	1:A:2250:SER:HB2	1.95	0.48
1:B:249:PHE:O	1:B:253:LEU:HG	2.13	0.48
1:B:293:LEU:O	1:B:296:VAL:HG12	2.12	0.48
1:B:358:GLU:HG3	1:B:359:LEU:N	2.27	0.48
1:B:611:ASN:C	1:B:614:PRO:HD2	2.33	0.48
1:B:758:LEU:O	1:B:762:TYR:HB3	2.13	0.48
1:B:856:VAL:HG21	1:B:3110:PHE:CE1	2.48	0.48
1:B:884:VAL:HG22	1:B:888:ARG:HG2	1.95	0.48
1:B:892:LEU:HD12	1:B:892:LEU:O	2.13	0.48
1:B:996:THR:O	1:B:1042:LYS:HG2	2.12	0.48
1:B:1299:GLU:HA	1:B:1302:ALA:CB	2.44	0.48
1:B:1330:TYR:O	1:B:1333:SER:OG	2.27	0.48
1:B:1889:VAL:HG13	1:B:1900:PHE:CD2	2.48	0.48
1:B:2031:LEU:HB2	1:B:2033:ASP:CB	2.40	0.48
1:B:2059:PRO:O	1:B:2062:ALA:HB3	2.13	0.48
1:B:2291:GLN:NE2	1:B:2294:ILE:HG13	2.28	0.48
1:B:2299:TYR:O	1:B:2302:ALA:N	2.46	0.48
1:B:2387:PRO:O	1:B:2390:HIS:HB3	2.12	0.48
1:B:2459:VAL:HG11	1:B:2505:VAL:HG22	1.95	0.48
1:B:2549:LYS:HD2	1:B:2554:PHE:HB3	1.95	0.48
1:B:2851:PHE:O	1:B:2855:VAL:HG23	2.13	0.48
1:B:3398:PRO:HG2	1:B:3399:PRO:HD3	1.94	0.48
1:B:3989:ARG:HE	1:B:4100:GLU:CB	2.26	0.48
1:A:1001:PHE:CD1	1:A:1002:GLU:N	2.82	0.48
1:A:1029:CYS:CB	1:A:1085:ILE:HG13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1075:ARG:O	1:A:1078:ALA:HB3	2.14	0.48
1:A:1231:GLN:H	1:A:1232:PRO:HD3	1.78	0.48
1:A:1387:GLY:HA2	1:A:1392:MSE:SE	2.63	0.48
1:A:1889:VAL:HG22	1:A:1900:PHE:CE2	2.49	0.48
1:A:2122:LEU:HA	1:A:2127:LYS:HE2	1.96	0.48
1:A:2161:ALA:HB1	1:A:2211:LEU:HD13	1.95	0.48
1:A:2166:SER:N	1:A:2167:PRO:HD2	2.28	0.48
1:A:2573:PRO:C	1:A:2575:PRO:HD3	2.32	0.48
1:A:2778:GLY:O	1:A:2781:PRO:HD2	2.14	0.48
1:A:3020:ASP:HB3	1:A:3027:LEU:HD12	1.95	0.48
1:A:3612:ARG:O	1:A:3615:ALA:HB3	2.14	0.48
1:A:4117:LEU:HB3	1:A:4126:PRO:HB2	1.96	0.48
1:B:706:LEU:HA	1:B:709:LYS:HB2	1.94	0.48
1:B:793:LEU:HA	1:B:796:LEU:CG	2.43	0.48
1:B:1741:ASP:O	1:B:1745:LYS:HG3	2.14	0.48
1:B:1884:LEU:HB2	1:B:1885:PRO:HD3	1.95	0.48
1:B:2086:ASP:CB	1:B:2090:ARG:HH21	2.24	0.48
1:B:2148:LYS:HD3	1:B:2160:TYR:HE1	1.78	0.48
1:B:2227:LYS:HD2	1:B:2235:LEU:CG	2.35	0.48
1:B:3076:ALA:O	1:B:3080:LEU:HG	2.14	0.48
1:B:3498:TRP:NE1	1:B:3502:MSE:HB2	2.28	0.48
1:B:3764:VAL:O	1:B:3768:PHE:HD1	1.96	0.48
1:B:3972:LEU:O	1:B:3974:MSE:N	2.46	0.48
1:A:19:LEU:HA	1:A:22:ALA:HB3	1.95	0.48
1:A:49:ALA:O	1:A:53:LEU:HB2	2.12	0.48
1:A:88:PHE:O	1:A:91:ILE:HG13	2.13	0.48
1:A:322:GLN:HA	1:A:325:ASN:HB2	1.95	0.48
1:A:979:VAL:O	1:A:982:GLN:HB3	2.12	0.48
1:A:1389:VAL:O	1:A:1390:GLN:HB2	2.13	0.48
1:A:2196:TRP:CE2	1:A:2199:LEU:HD11	2.47	0.48
1:A:2241:LEU:HA	1:A:2244:CYS:SG	2.53	0.48
1:A:2386:LEU:HD13	1:A:2401:VAL:HA	1.95	0.48
1:A:2437:ASP:HB3	1:A:2472:GLN:HG2	1.95	0.48
1:A:2532:PRO:O	1:A:2565:MSE:HE2	2.14	0.48
1:A:3409:VAL:HB	1:A:3413:TYR:CE2	2.48	0.48
1:B:417:VAL:O	1:B:421:LEU:HG	2.14	0.48
1:B:629:PHE:CD2	1:B:668:LYS:HE2	2.48	0.48
1:B:741:ILE:O	1:B:743:LEU:N	2.46	0.48
1:B:1228:GLY:O	1:B:1282:LEU:HD11	2.14	0.48
1:B:1698:PHE:CD1	1:B:1699:PHE:N	2.82	0.48
1:B:2063:THR:HA	1:B:2066:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2085:MSE:O	1:B:2088:LEU:HB3	2.13	0.48
1:B:2837:LEU:HD22	1:B:2868:LEU:CG	2.41	0.48
1:B:3045:ILE:HB	1:B:3048:LYS:HZ1	1.79	0.48
1:B:3420:CYS:SG	1:B:3421:ASP:N	2.86	0.48
1:B:3629:ARG:HH22	1:B:3638:LYS:HE3	1.78	0.48
1:B:3771:MSE:O	1:B:3775:LEU:HG	2.14	0.48
1:B:3881:ASP:HA	1:B:3884:LYS:HD2	1.96	0.48
1:A:65:LEU:HD23	1:A:68:PHE:CE1	2.48	0.48
1:A:934:LEU:HD23	1:A:934:LEU:C	2.33	0.48
1:A:978:GLN:HA	1:A:981:ARG:NE	2.23	0.48
1:A:1136:ARG:HG2	1:A:1171:TRP:CH2	2.48	0.48
1:A:1385:ASN:O	1:A:1389:VAL:HG23	2.13	0.48
1:A:1430:GLU:HA	1:A:1433:ALA:HB3	1.95	0.48
1:A:3464:LYS:CD	1:A:3467:ARG:HD2	2.43	0.48
1:A:3617:LEU:HD13	1:A:3644:PHE:CD2	2.49	0.48
1:A:3762:GLN:OE1	1:A:3795:PRO:HG3	2.13	0.48
1:A:4085:LYS:HA	1:A:4088:ASN:CB	2.43	0.48
1:B:46:SER:H	1:B:51:LEU:HD13	1.78	0.48
1:B:361:ILE:HA	1:B:364:ARG:HG2	1.94	0.48
1:B:749:VAL:N	1:B:750:PRO:CD	2.77	0.48
1:B:757:LYS:HA	1:B:760:LEU:CD1	2.44	0.48
1:B:938:VAL:HG21	1:B:962:TYR:OH	2.13	0.48
1:B:1390:GLN:O	1:B:1393:ALA:HB3	2.14	0.48
1:B:1414:ILE:O	1:B:1418:HIS:HB2	2.13	0.48
1:B:1571:LEU:HD22	1:B:1600:MSE:HA	1.96	0.48
1:B:1890:HIS:NE2	1:B:1941:HIS:HA	2.29	0.48
1:B:1894:SER:C	1:B:1896:ILE:N	2.66	0.48
1:B:2231:PHE:CE1	1:B:2233:HIS:HB2	2.49	0.48
1:B:2782:ASP:HA	1:B:2786:LYS:HB3	1.96	0.48
1:B:3319:ASN:O	1:B:3323:PHE:HD2	1.95	0.48
1:B:3427:GLU:OE1	1:B:3435:ASP:HB3	2.14	0.48
1:B:3495:PHE:CZ	1:B:3521:ILE:HG13	2.49	0.48
1:B:3538:GLU:HG2	1:B:3759:ARG:NH1	2.29	0.48
1:B:3575:LEU:HD21	1:B:3687:MSE:SE	2.63	0.48
1:B:3629:ARG:NH2	1:B:3634:GLN:HA	2.28	0.48
1:B:3981:TYR:O	1:B:3985:VAL:HG23	2.14	0.48
1:A:295:GLU:HA	1:A:298:LEU:HD12	1.96	0.48
1:A:358:GLU:N	1:A:361:ILE:HG23	2.29	0.48
1:A:449:TYR:CZ	1:A:457:CYS:SG	3.05	0.48
1:A:1340:ARG:NH1	1:A:1343:GLU:HG2	2.29	0.48
1:A:1465:HIS:HA	1:A:1469:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2230:VAL:HB	1:A:2234:ASN:HD21	1.79	0.48
1:A:2467:THR:HB	1:A:2518:GLN:NE2	2.16	0.48
1:A:2890:ILE:CG2	1:A:2922:ARG:HH12	2.23	0.48
1:A:3454:LEU:HD12	1:A:3490:VAL:HG11	1.95	0.48
1:B:86:LEU:HD13	1:B:134:LEU:HD21	1.95	0.48
1:B:901:MSE:HE1	1:B:2535:THR:HG21	1.96	0.48
1:B:1007:VAL:O	1:B:1011:GLU:CB	2.61	0.48
1:B:1055:ASN:HA	1:B:1059:LEU:HG	1.94	0.48
1:B:1080:LEU:HB2	1:B:1131:ILE:HG22	1.94	0.48
1:B:1165:LEU:HB3	1:B:1169:VAL:HG23	1.96	0.48
1:B:1387:GLY:HA2	1:B:1392:MSE:HB2	1.94	0.48
1:B:1692:ALA:O	1:B:1695:LEU:HB2	2.14	0.48
1:B:1711:ARG:O	1:B:1715:GLU:HG3	2.12	0.48
1:B:1946:ASN:O	1:B:1949:ILE:N	2.35	0.48
1:B:1970:LYS:HB3	1:B:1971:PRO:HD3	1.95	0.48
1:B:1978:PHE:O	1:B:1981:LEU:HB3	2.13	0.48
1:B:2462:VAL:HB	1:B:2473:MSE:SE	2.63	0.48
1:B:3463:LEU:HD21	1:B:4001:THR:HA	1.96	0.48
1:B:3582:GLU:HB2	1:B:3674:SER:OG	2.14	0.48
1:B:3675:LYS:N	1:B:3676:PRO:HD2	2.29	0.48
1:B:3916:TRP:HE3	1:B:3917:ILE:HD12	1.77	0.48
1:B:4103:GLN:H	1:B:4103:GLN:CD	2.16	0.48
1:A:440:VAL:HG12	1:A:483:VAL:HG12	1.94	0.48
1:A:634:LEU:HD22	1:A:667:TYR:HD1	1.79	0.48
1:A:722:LYS:HB3	1:A:727:ALA:CA	2.44	0.48
1:A:883:TYR:CE2	1:A:961:LEU:HD12	2.49	0.48
1:A:1066:LEU:HA	1:A:1069:HIS:CD2	2.49	0.48
1:A:1080:LEU:HD13	1:A:1127:CYS:HB3	1.96	0.48
1:A:1086:TYR:HE2	1:A:1090:ARG:NE	2.08	0.48
1:A:1105:VAL:HB	1:A:1153:LEU:HD22	1.95	0.48
1:A:1651:LYS:HD2	1:A:1684:LEU:CG	2.44	0.48
1:A:1737:ASN:O	1:A:1739:TYR:N	2.44	0.48
1:A:2224:PHE:CE2	1:A:2259:LYS:HD3	2.48	0.48
1:A:2467:THR:CB	1:A:2518:GLN:HE22	2.17	0.48
1:A:2890:ILE:HD13	1:A:2922:ARG:HH12	1.78	0.48
1:A:2911:ARG:CG	1:A:2914:ALA:HB3	2.43	0.48
1:A:3806:LEU:O	1:A:3809:THR:HG22	2.14	0.48
1:A:3917:ILE:O	1:A:4048:LYS:NZ	2.46	0.48
1:B:345:PHE:O	1:B:349:ILE:HG13	2.13	0.48
1:B:429:GLU:OE2	1:B:1595:ALA:HB2	2.13	0.48
1:B:645:TRP:CZ3	1:B:659:ARG:CB	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:994:TRP:HA	1:B:994:TRP:CE3	2.48	0.48
1:B:1306:ILE:CG1	1:B:1334:LYS:HB3	2.42	0.48
1:B:1916:ILE:HG23	1:B:1920:TYR:CE1	2.49	0.48
1:B:2073:ASP:N	1:B:2074:PRO:CD	2.77	0.48
1:B:2142:ILE:HG12	1:B:2145:PHE:CE2	2.49	0.48
1:B:2164:TRP:HH2	1:B:2190:VAL:HG12	1.79	0.48
1:B:2304:VAL:HG13	1:B:2348:GLN:NE2	2.28	0.48
1:B:2877:SER:C	1:B:2879:GLY:N	2.67	0.48
1:B:2915:ARG:HH11	1:B:2915:ARG:HG3	1.78	0.48
1:B:3145:ILE:HG12	1:B:3196:LYS:HG2	1.95	0.48
1:B:3175:PRO:HG2	1:B:3178:ILE:HD11	1.95	0.48
1:B:3825:LYS:HD2	1:B:3829:LEU:HA	1.95	0.48
1:B:3835:PRO:HA	1:B:3871:PHE:CE1	2.47	0.48
1:B:3913:ILE:O	1:B:3917:ILE:HD13	2.14	0.48
1:A:280:SER:O	1:A:322:GLN:HG2	2.14	0.48
1:A:509:ARG:CB	1:A:729:CYS:SG	3.02	0.48
1:A:542:ASP:HA	1:A:545:LEU:CD1	2.44	0.48
1:A:611:ASN:O	1:A:614:PRO:HD2	2.13	0.48
1:A:889:GLU:OE2	1:A:950:GLU:HG2	2.13	0.48
1:A:1042:LYS:HE3	1:A:1044:ILE:HG21	1.95	0.48
1:A:1072:ALA:CB	1:A:1114:ALA:HB1	2.44	0.48
1:A:1165:LEU:O	1:A:1168:LEU:N	2.46	0.48
1:A:1175:HIS:O	1:A:1178:ARG:HB3	2.13	0.48
1:A:1434:VAL:HB	1:A:1448:LEU:HD11	1.94	0.48
1:A:2193:ILE:CD1	1:A:2245:TRP:CZ2	2.97	0.48
1:A:2232:ARG:NH2	1:A:2313:LYS:NZ	2.62	0.48
1:A:2256:ILE:HG12	1:A:2276:LEU:HD21	1.96	0.48
1:A:2820:MSE:HE3	1:A:2829:LYS:HB3	1.96	0.48
1:A:3638:LYS:C	1:A:3641:ASP:H	2.16	0.48
1:B:19:LEU:HA	1:B:22:ALA:HB3	1.96	0.48
1:B:39:GLY:O	1:B:43:VAL:HG23	2.13	0.48
1:B:231:LEU:HD23	1:B:234:PHE:HB3	1.94	0.48
1:B:446:PHE:HD2	1:B:533:HIS:CB	2.25	0.48
1:B:641:PHE:CZ	1:B:645:TRP:NE1	2.82	0.48
1:B:929:ALA:O	1:B:933:LEU:CB	2.62	0.48
1:B:1109:GLU:O	1:B:1113:LEU:HB3	2.14	0.48
1:B:1303:MSE:O	1:B:1307:ILE:HG13	2.13	0.48
1:B:1476:HIS:CE1	1:B:1507:CYS:HA	2.49	0.48
1:B:1574:ASN:CB	1:B:1582:LEU:HD21	2.42	0.48
1:B:1923:PHE:HE2	1:B:1927:MSE:HE1	1.79	0.48
1:B:2146:LEU:HD22	1:B:2149:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3460:GLU:HA	1:B:3463:LEU:HD12	1.96	0.48
1:A:290:TYR:CD1	1:A:293:LEU:HD13	2.48	0.48
1:A:1373:VAL:C	1:A:1375:THR:H	2.16	0.48
1:A:1723:PRO:O	1:A:1725:GLN:N	2.47	0.48
1:A:1984:LEU:HD12	1:A:1985:LYS:N	2.29	0.48
1:A:2004:TYR:CE1	1:A:2054:TYR:O	2.67	0.48
1:A:2328:ARG:O	1:A:2332:GLU:HG3	2.13	0.48
1:A:2854:PHE:HZ	1:A:2881:LEU:HB2	1.77	0.48
1:A:2979:GLN:O	1:A:2982:VAL:HG22	2.14	0.48
1:A:3008:TRP:CG	1:A:3257:LYS:NZ	2.81	0.48
1:A:3326:GLN:CB	1:A:3393:GLU:HG2	2.37	0.48
1:A:3806:LEU:HG	1:A:3807:GLU:O	2.13	0.48
1:A:3900:LEU:HD11	1:A:3934:THR:O	2.13	0.48
1:A:3980:MSE:HA	1:A:3983:ILE:HG13	1.94	0.48
1:B:1025:LEU:HA	1:B:1025:LEU:HD12	1.60	0.48
1:B:1087:ARG:CD	1:B:1134:LEU:HD22	2.44	0.48
1:B:1253:THR:HA	1:B:1257:LEU:HD12	1.95	0.48
1:B:2222:HIS:O	1:B:2224:PHE:N	2.47	0.48
1:B:2912:GLY:HA2	1:B:2915:ARG:NH2	2.28	0.48
1:B:2913:LYS:HG3	1:B:2914:ALA:H	1.76	0.48
1:B:3571:PHE:O	1:B:3575:LEU:HB3	2.13	0.48
1:B:3758:LEU:HD22	1:B:3761:ASP:OD2	2.13	0.48
1:B:3816:LEU:HD11	1:B:3883:LEU:HD22	1.96	0.48
1:B:3862:ALA:O	1:B:3865:THR:OG1	2.27	0.48
1:A:65:LEU:O	1:A:69:VAL:HB	2.14	0.47
1:A:157:TYR:HA	1:A:160:LEU:HG	1.96	0.47
1:A:1762:MSE:SE	1:A:1867:ILE:HG21	2.64	0.47
1:A:1918:LEU:HD11	1:A:1957:ASN:ND2	2.29	0.47
1:A:1977:ILE:C	1:A:1979:GLU:H	2.13	0.47
1:A:2074:PRO:CB	1:A:2136:PRO:HB3	2.43	0.47
1:A:2358:ASP:OD1	1:A:2358:ASP:N	2.46	0.47
1:A:2390:HIS:ND1	1:A:2397:CYS:SG	2.64	0.47
1:A:2538:ARG:HG3	1:A:2539:LEU:N	2.28	0.47
1:A:3128:LYS:C	1:A:3130:GLN:H	2.15	0.47
1:A:3425:ARG:NH1	1:A:3999:THR:HG22	2.29	0.47
1:A:3725:ARG:HH12	1:A:3737:ARG:NH2	2.11	0.47
1:A:3870:SER:OG	1:A:3871:PHE:N	2.46	0.47
1:B:76:ILE:HG13	1:B:77:GLU:H	1.79	0.47
1:B:645:TRP:CZ3	1:B:659:ARG:HB3	2.49	0.47
1:B:942:LEU:HD11	1:B:991:LEU:CD1	2.44	0.47
1:B:989:MSE:HB2	1:B:990:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1018:VAL:HB	1:B:1074:LYS:CA	2.44	0.47
1:B:1036:PHE:CZ	1:B:1082:PHE:CE2	3.02	0.47
1:B:1268:ASN:HA	1:B:1271:ILE:HD12	1.95	0.47
1:B:1299:GLU:C	1:B:1302:ALA:H	2.17	0.47
1:B:1946:ASN:HA	1:B:1949:ILE:HG22	1.96	0.47
1:B:2193:ILE:HG13	1:B:2196:TRP:CZ2	2.49	0.47
1:B:2382:VAL:CG2	1:B:2404:ARG:HG3	2.40	0.47
1:B:2538:ARG:HG3	1:B:2539:LEU:N	2.28	0.47
1:B:2782:ASP:HA	1:B:2786:LYS:CB	2.44	0.47
1:B:3003:ASN:ND2	1:B:3010:SER:HB2	2.28	0.47
1:B:3110:PHE:HB2	1:B:3114:TYR:HE1	1.78	0.47
1:B:3136:THR:O	1:B:3140:GLU:HB2	2.14	0.47
1:B:3268:THR:H	1:B:3271:ASP:HB3	1.79	0.47
1:B:3525:TYR:HA	1:B:3529:ILE:HG21	1.96	0.47
1:B:3531:TYR:HB3	1:B:3532:PRO:HD3	1.95	0.47
1:B:3789:ARG:CZ	1:B:3806:LEU:HD22	2.44	0.47
1:B:3896:ALA:O	1:B:3899:ALA:HB3	2.14	0.47
1:B:4062:ASP:HA	1:B:4065:LEU:CD2	2.44	0.47
1:A:31:GLY:HA3	1:A:81:CYS:SG	2.54	0.47
1:A:290:TYR:O	1:A:294:PHE:HD1	1.97	0.47
1:A:335:LYS:HA	1:A:338:LEU:HD12	1.94	0.47
1:A:419:SER:O	1:A:422:LEU:HB2	2.15	0.47
1:A:935:HIS:NE2	1:A:987:LEU:HG	2.29	0.47
1:A:1073:PHE:CZ	1:A:3745:GLU:HA	2.49	0.47
1:A:1716:GLN:O	1:A:1719:VAL:N	2.40	0.47
1:A:1733:THR:N	1:A:1734:PRO:CD	2.77	0.47
1:A:2291:GLN:NE2	1:A:2294:ILE:HG21	2.29	0.47
1:A:3493:TRP:CZ3	1:A:3496:ILE:HG13	2.49	0.47
1:A:3954:PRO:HG3	1:A:4030:GLU:HB2	1.95	0.47
1:B:58:VAL:O	1:B:62:ASP:HB2	2.14	0.47
1:B:650:SER:HA	1:B:652:GLU:OE2	2.13	0.47
1:B:659:ARG:HH12	1:B:662:LEU:CD2	2.28	0.47
1:B:922:SER:O	1:B:926:THR:OG1	2.28	0.47
1:B:1438:GLY:O	1:B:1441:ALA:HB2	2.14	0.47
1:B:1869:LYS:O	1:B:1873:TYR:HD1	1.96	0.47
1:B:2420:PHE:HZ	1:B:2436:LEU:HB3	1.76	0.47
1:B:2482:ASP:HA	1:B:2485:ARG:HB3	1.95	0.47
1:B:2911:ARG:O	1:B:2915:ARG:NE	2.47	0.47
1:B:3522:THR:HA	1:B:3525:TYR:HB3	1.96	0.47
1:B:3842:TRP:HH2	1:B:3846:MSE:HE2	1.73	0.47
1:A:292:SER:O	1:A:296:VAL:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:GLU:HA	1:A:3251:ASN:O	2.14	0.47
1:A:3301:LEU:HB2	1:A:3328:ILE:CG2	2.44	0.47
1:A:3493:TRP:CE3	1:A:3713:PRO:HB3	2.49	0.47
1:A:3606:ILE:HD13	1:A:3609:MSE:HE3	1.96	0.47
1:B:187:SER:O	1:B:190:ILE:HG22	2.13	0.47
1:B:634:LEU:O	1:B:669:LEU:HD12	2.14	0.47
1:B:714:VAL:HG11	1:B:734:LEU:HD21	1.96	0.47
1:B:1111:LEU:HD22	1:B:1131:ILE:HD13	1.96	0.47
1:B:1397:ASP:O	1:B:1400:VAL:HB	2.13	0.47
1:B:1501:PRO:O	1:B:1505:LEU:HB2	2.14	0.47
1:B:2440:TYR:O	1:B:2440:TYR:CG	2.67	0.47
1:B:3334:TYR:CE1	1:B:3426:LYS:HD3	2.49	0.47
1:B:3797:THR:CG2	1:B:3800:LEU:HG	2.43	0.47
1:A:14:ARG:HH12	1:A:2392:VAL:HG21	1.79	0.47
1:A:69:VAL:O	1:A:73:LEU:HG	2.13	0.47
1:A:368:LEU:CA	1:A:372:PRO:HG2	2.44	0.47
1:A:403:GLY:O	1:A:405:ASP:N	2.44	0.47
1:A:455:LEU:O	1:A:459:ARG:HG3	2.15	0.47
1:A:718:MSE:O	1:A:722:LYS:HB2	2.15	0.47
1:A:892:LEU:HD21	1:A:958:MSE:HG3	1.96	0.47
1:A:2003:LYS:HG2	1:A:2006:GLU:OE1	2.14	0.47
1:A:2776:ARG:HA	1:A:2776:ARG:CZ	2.44	0.47
1:A:2841:ASN:OD1	1:A:2844:LEU:HD12	2.15	0.47
1:A:2917:PRO:HB2	1:A:2918:PRO:HD3	1.95	0.47
1:A:2940:ARG:HD3	1:A:3975:LYS:CD	2.44	0.47
1:A:3487:ILE:HG21	1:A:3524:ASN:HD21	1.78	0.47
1:A:3878:VAL:HB	1:A:3879:PRO:HD3	1.96	0.47
1:B:411:PRO:O	1:B:415:GLN:CB	2.62	0.47
1:B:612:LEU:HD21	1:B:1800:SER:HB3	1.96	0.47
1:B:887:ASP:O	1:B:3889:ARG:NE	2.47	0.47
1:B:927:LYS:O	1:B:931:CYS:SG	2.73	0.47
1:B:1080:LEU:HB2	1:B:1131:ILE:CG2	2.45	0.47
1:B:1472:SER:OG	1:B:1473:THR:N	2.48	0.47
1:B:2155:GLU:HB3	1:B:2156:VAL:H	1.40	0.47
1:B:2186:VAL:O	1:B:2190:VAL:HG13	2.13	0.47
1:B:2193:ILE:O	1:B:2193:ILE:HG12	2.14	0.47
1:B:2200:ALA:CA	1:B:2203:THR:HG22	2.41	0.47
1:B:2212:ALA:O	1:B:2215:LEU:HB3	2.15	0.47
1:B:2257:PHE:CE1	1:B:2299:TYR:HB3	2.49	0.47
1:B:3498:TRP:HD1	1:B:3502:MSE:HB2	1.77	0.47
1:B:3514:VAL:HG21	1:B:3551:ASN:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3839:TYR:HB2	1:B:3871:PHE:CE1	2.49	0.47
1:A:749:VAL:N	1:A:750:PRO:HD3	2.30	0.47
1:A:1216:GLY:HA3	1:A:1271:ILE:CG2	2.45	0.47
1:A:1292:LYS:H	1:A:1292:LYS:HG3	1.52	0.47
1:A:1508:LYS:C	1:A:1510:LEU:H	2.18	0.47
1:A:1809:ASP:HA	1:A:1815:THR:HA	1.96	0.47
1:A:2549:LYS:HZ3	1:A:2554:PHE:HA	1.75	0.47
1:A:3008:TRP:CE3	1:A:3050:LYS:HB2	2.50	0.47
1:A:3114:TYR:CE2	1:A:3125:ARG:NH2	2.83	0.47
1:A:3775:LEU:HB3	1:A:3781:CYS:SG	2.53	0.47
1:A:3834:ALA:HB1	1:A:3838:GLU:OE1	2.14	0.47
1:B:205:LYS:HE3	1:B:243:GLN:HB3	1.96	0.47
1:B:428:PRO:O	1:B:430:VAL:HG23	2.14	0.47
1:B:539:GLN:HG3	1:B:626:LEU:O	2.14	0.47
1:B:756:PHE:O	1:B:759:GLY:C	2.52	0.47
1:B:801:LYS:HB2	1:B:805:LEU:HD12	1.96	0.47
1:B:927:LYS:HE3	1:B:928:VAL:HG13	1.96	0.47
1:B:1001:PHE:CD1	1:B:1002:GLU:N	2.81	0.47
1:B:1090:ARG:HH12	1:B:1096:VAL:CG1	2.22	0.47
1:B:2508:GLN:HG2	1:B:2508:GLN:O	2.14	0.47
1:B:2539:LEU:HG	1:B:2816:ILE:HG13	1.95	0.47
1:B:2603:UNK:CB	1:B:2793:PRO:HB2	2.44	0.47
1:B:3128:LYS:O	1:B:3132:VAL:HG13	2.14	0.47
1:B:3160:LEU:HD12	1:B:3160:LEU:HA	1.75	0.47
1:B:3330:LEU:C	1:B:3332:THR:H	2.17	0.47
1:B:3820:MSE:O	1:B:3824:GLU:N	2.41	0.47
1:A:82:ARG:NH2	1:A:130:LEU:HD22	2.30	0.47
1:A:238:MSE:HG3	1:A:239:GLU:HG2	1.96	0.47
1:A:410:MSE:HE2	1:A:441:MSE:CE	2.44	0.47
1:A:977:ASP:O	1:A:980:THR:HB	2.14	0.47
1:A:1213:LYS:O	1:A:1215:GLU:N	2.48	0.47
1:A:1372:LEU:HG	1:A:1373:VAL:N	2.29	0.47
1:A:1396:PRO:O	1:A:1400:VAL:HG23	2.14	0.47
1:A:2164:TRP:CH2	1:A:2190:VAL:HG12	2.49	0.47
1:A:2325:LEU:HG	1:A:2329:TYR:CD2	2.49	0.47
1:A:3524:ASN:O	1:A:3529:ILE:HD13	2.14	0.47
1:A:3719:ILE:HG23	1:A:3720:ALA:H	1.79	0.47
1:A:3846:MSE:O	1:A:3857:LEU:HD22	2.14	0.47
1:A:4077:TYR:CG	1:A:4119:ARG:NH1	2.82	0.47
2:K:215:UNK:O	2:K:219:UNK:N	2.48	0.47
1:B:324:SER:HB3	1:B:370:ALA:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:CYS:SG	1:B:540:MSE:SE	3.23	0.47
1:B:749:VAL:N	1:B:750:PRO:HD3	2.30	0.47
1:B:1290:LEU:HD12	1:B:1294:VAL:HG21	1.97	0.47
1:B:1570:GLU:HA	1:B:1573:LYS:HB3	1.96	0.47
1:B:1726:SER:CB	1:B:1866:GLN:HE22	2.27	0.47
1:B:2420:PHE:CZ	1:B:2424:MSE:HE3	2.49	0.47
1:B:2803:ILE:O	1:B:2803:ILE:HG12	2.14	0.47
1:B:2884:LEU:O	1:B:2888:VAL:HG23	2.15	0.47
1:B:2989:ALA:HB1	1:B:2993:PHE:CD2	2.49	0.47
1:B:3128:LYS:C	1:B:3130:GLN:H	2.17	0.47
1:B:3762:GLN:HA	1:B:3793:VAL:CG2	2.36	0.47
1:A:63:PHE:O	1:A:67:VAL:HG23	2.14	0.47
1:A:282:PHE:CD1	1:A:282:PHE:C	2.88	0.47
1:A:527:TYR:O	1:A:531:PHE:CE2	2.67	0.47
1:A:557:SER:O	1:A:560:LEU:HG	2.14	0.47
1:A:729:CYS:HA	1:A:732:PHE:CD2	2.50	0.47
1:A:1013:ILE:O	1:A:1016:GLY:N	2.48	0.47
1:A:1033:ILE:CG1	1:A:1089:PHE:HE2	2.27	0.47
1:A:1116:ALA:O	1:A:1119:LYS:HG2	2.14	0.47
1:A:1162:SER:H	1:A:1165:LEU:HD12	1.80	0.47
1:A:1689:LYS:O	1:A:1693:VAL:HG23	2.15	0.47
1:A:1715:GLU:HA	1:A:1718:ILE:HB	1.95	0.47
1:A:1816:ARG:HD3	1:A:1819:PHE:CE1	2.49	0.47
1:A:1879:VAL:O	1:A:1882:SER:HB3	2.15	0.47
1:A:2023:SER:HB2	1:A:2024:TYR:CD1	2.49	0.47
1:A:2216:LEU:HD13	1:A:2249:LEU:HD21	1.97	0.47
1:A:2224:PHE:HB3	1:A:2272:VAL:HG13	1.96	0.47
1:A:2257:PHE:CD1	1:A:2299:TYR:HB3	2.49	0.47
1:A:2313:LYS:HA	1:A:2316:TYR:CD2	2.50	0.47
1:A:2390:HIS:CE1	1:A:2397:CYS:HG	2.33	0.47
1:A:2462:VAL:HG11	1:A:2473:MSE:CE	2.44	0.47
1:A:2538:ARG:HD2	1:A:2562:LEU:HD22	1.96	0.47
1:A:2861:ILE:HD13	1:A:2889:GLY:HA2	1.96	0.47
1:A:2936:TYR:HD1	1:A:2949:THR:HG21	1.80	0.47
1:A:2936:TYR:HD2	1:A:3979:LEU:HD11	1.78	0.47
1:A:2939:LEU:HD21	1:A:2994:TRP:CD1	2.49	0.47
1:A:3090:TYR:O	1:A:3092:LEU:N	2.48	0.47
1:A:3284:SER:HB2	1:A:3287:ARG:HH21	1.79	0.47
1:A:3447:VAL:HG11	1:A:3475:TYR:OH	2.15	0.47
1:A:3741:ARG:HG2	1:A:3741:ARG:NH1	2.29	0.47
1:A:3757:ASP:OD2	1:A:3759:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3820:MSE:CB	1:A:3882:LEU:HD13	2.44	0.47
1:A:4083:GLY:O	1:A:4088:ASN:ND2	2.44	0.47
1:A:4085:LYS:HA	1:A:4088:ASN:HB2	1.97	0.47
2:K:217:UNK:O	2:K:220:MSE:HG2	2.15	0.47
1:B:170:VAL:HG23	1:B:173:LYS:CE	2.44	0.47
1:B:895:ALA:HB2	1:B:904:VAL:HG21	1.96	0.47
1:B:966:PHE:CD1	1:B:969:LEU:HD13	2.50	0.47
1:B:986:PRO:C	1:B:990:GLN:HE21	2.18	0.47
1:B:1076:LEU:HD11	1:B:1114:ALA:CB	2.45	0.47
1:B:1492:ALA:HB1	1:B:1493:PRO:CD	2.45	0.47
1:B:1705:GLY:HA2	1:B:1739:TYR:OH	2.15	0.47
1:B:1718:ILE:HA	1:B:1725:GLN:OE1	2.14	0.47
1:B:1737:ASN:O	1:B:1739:TYR:N	2.46	0.47
1:B:1760:GLU:HB2	1:B:1894:SER:HA	1.97	0.47
1:B:1945:TYR:OH	1:B:1959:LEU:HD12	2.15	0.47
1:B:2187:VAL:O	1:B:2190:VAL:HG22	2.14	0.47
1:B:2320:ALA:HA	1:B:2367:VAL:HG23	1.96	0.47
1:B:2549:LYS:HD2	1:B:2554:PHE:CB	2.44	0.47
1:B:2809:PHE:HB3	1:B:2859:GLN:OE1	2.14	0.47
1:B:2933:ILE:HG21	1:B:3976:GLU:HG3	1.96	0.47
1:B:3011:LEU:O	1:B:3014:CYS:HB2	2.14	0.47
1:B:3187:CYS:O	1:B:3190:LEU:N	2.48	0.47
1:B:3196:LYS:C	1:B:3199:PRO:HD2	2.35	0.47
1:B:3499:ILE:HG13	1:B:3531:TYR:OH	2.15	0.47
1:B:3503:VAL:HG23	1:B:3536:SER:HA	1.96	0.47
1:B:3792:SER:OG	1:B:3804:GLU:HB2	2.14	0.47
1:B:3834:ALA:H	1:B:3835:PRO:HD3	1.79	0.47
1:B:3887:PHE:CE1	1:B:3900:LEU:HB3	2.47	0.47
1:B:3919:GLY:N	1:B:3946:PHE:H	2.09	0.47
1:A:68:PHE:O	1:A:72:SER:OG	2.23	0.47
1:A:174:VAL:HG12	1:A:178:LEU:HD11	1.96	0.47
1:A:798:GLY:HA2	1:A:873:VAL:HG11	1.96	0.47
1:A:1575:LEU:O	1:A:1635:LYS:NZ	2.39	0.47
1:A:1729:PHE:CE2	1:A:1873:TYR:CE1	3.03	0.47
1:A:2134:GLY:H	1:A:2137:ILE:HD11	1.80	0.47
1:A:2404:ARG:NH1	1:A:2412:TYR:CE1	2.82	0.47
1:A:2430:GLU:OE2	1:A:2461:PHE:CD1	2.65	0.47
1:A:3420:CYS:HB2	1:A:3446:VAL:HG11	1.96	0.47
1:A:3467:ARG:CG	1:A:3471:ILE:HD12	2.45	0.47
1:A:3920:ILE:HG13	1:A:3923:ARG:CD	2.45	0.47
1:A:3944:HIS:CD2	1:A:4020:MSE:HE3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3985:VAL:HG22	1:A:4104:VAL:HG21	1.95	0.47
1:A:4069:GLU:OE2	1:A:4070:LYS:HG3	2.15	0.47
1:B:704:PHE:HA	1:B:707:PHE:CD1	2.50	0.47
1:B:858:MSE:O	1:B:861:SER:N	2.48	0.47
1:B:1118:GLU:O	1:B:1120:SER:N	2.47	0.47
1:B:2385:LEU:HG	1:B:2389:PHE:CE2	2.49	0.47
1:B:3040:TYR:HA	1:B:3043:TYR:CD2	2.50	0.47
1:B:3122:HIS:O	1:B:3125:ARG:N	2.47	0.47
1:B:3247:ARG:HD3	1:B:3281:CYS:SG	2.55	0.47
1:B:3251:ASN:HD21	1:B:3254:LEU:HD13	1.80	0.47
1:B:3459:ASN:ND2	1:B:3710:LYS:HZ3	2.12	0.47
1:B:3659:PHE:CD1	1:B:3662:ILE:HD12	2.50	0.47
1:A:205:LYS:O	1:A:208:MSE:HG2	2.15	0.47
1:A:241:ASP:HB2	1:A:282:PHE:HE2	1.80	0.47
1:A:257:ARG:H	1:A:258:PRO:HD2	1.78	0.47
1:A:384:MSE:O	1:A:385:TYR:HB3	2.15	0.47
1:A:667:TYR:O	1:A:669:LEU:N	2.47	0.47
1:A:776:TRP:CZ2	1:A:780:ILE:HD12	2.50	0.47
1:A:928:VAL:HG23	1:A:929:ALA:N	2.29	0.47
1:A:1036:PHE:CZ	1:A:1082:PHE:CE2	3.03	0.47
1:A:1131:ILE:HG12	1:A:1132:ASP:N	2.29	0.47
1:A:1701:SER:OG	1:A:1702:LEU:N	2.48	0.47
1:A:1970:LYS:HZ1	1:A:2018:ASP:N	2.13	0.47
1:A:2891:ARG:HH21	1:A:3884:LYS:HD3	1.76	0.47
1:A:3080:LEU:HD13	1:A:3102:TYR:OH	2.15	0.47
1:A:3386:SER:HA	1:A:3389:VAL:HG12	1.97	0.47
1:A:3393:GLU:OE1	1:A:3416:LEU:HD23	2.15	0.47
1:A:3510:GLN:CD	1:A:3513:ALA:HB2	2.35	0.47
1:A:3583:LEU:HD11	1:A:3733:ARG:CB	2.42	0.47
1:B:777:SER:HB2	1:B:858:MSE:HE1	1.97	0.47
1:B:943:GLY:O	1:B:945:ALA:N	2.45	0.47
1:B:963:LYS:HG3	1:B:1009:LEU:CD1	2.45	0.47
1:B:987:LEU:O	1:B:991:LEU:HD13	2.15	0.47
1:B:1036:PHE:HD1	1:B:1059:LEU:HD11	1.79	0.47
1:B:1068:LEU:HD11	1:B:1110:SER:OG	2.15	0.47
1:B:1302:ALA:O	1:B:1306:ILE:HB	2.15	0.47
1:B:2239:LYS:CG	1:B:2279:ILE:HD12	2.45	0.47
1:B:2254:ARG:HB2	1:B:2295:GLN:HB2	1.97	0.47
1:B:2379:MSE:HG2	1:B:2408:MSE:SE	2.65	0.47
1:B:2407:GLY:O	1:B:2409:THR:HG23	2.15	0.47
1:B:2987:THR:O	1:B:2990:GLU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3160:LEU:HB3	1:B:3164:TRP:CZ3	2.50	0.47
1:B:3243:ILE:HG23	1:B:3258:LEU:HD12	1.96	0.47
1:B:3244:ASP:O	1:B:3247:ARG:HB3	2.15	0.47
1:B:3503:VAL:CG2	1:B:3536:SER:HA	2.45	0.47
1:B:3720:ALA:HB2	1:B:3743:HIS:HB2	1.96	0.47
1:B:3944:HIS:ND1	1:B:3949:ALA:HA	2.29	0.47
1:A:125:ILE:H	1:A:126:PRO:CD	2.28	0.47
1:A:234:PHE:O	1:A:235:THR:OG1	2.22	0.47
1:A:474:VAL:HG11	1:A:1564:SER:HB2	1.97	0.47
1:A:544:ILE:O	1:A:548:GLU:HB2	2.14	0.47
1:A:927:LYS:O	1:A:931:CYS:SG	2.73	0.47
1:A:1251:GLN:HE21	1:A:1329:ARG:NH1	2.13	0.47
1:A:1292:LYS:O	1:A:1295:ALA:HB3	2.15	0.47
1:A:1335:CYS:SG	1:A:1382:ILE:HG21	2.55	0.47
1:A:1598:ASN:ND2	1:A:1811:ARG:HB3	2.30	0.47
1:A:1685:ASP:CB	1:A:1727:ARG:NH2	2.74	0.47
1:A:1745:LYS:C	1:A:1747:LEU:N	2.68	0.47
1:A:2260:PHE:HA	1:A:2273:GLY:HA3	1.96	0.47
1:A:2637:UNK:O	1:A:2641:UNK:CB	2.63	0.47
1:A:2856:SER:O	1:A:2859:GLN:HB3	2.15	0.47
1:A:3011:LEU:HD11	1:A:3043:TYR:O	2.15	0.47
1:A:3053:LEU:HD11	1:A:3187:CYS:HB3	1.96	0.47
1:A:3147:LYS:O	1:A:3151:LEU:N	2.48	0.47
1:A:3533:PHE:CD1	1:A:3562:LEU:HB3	2.50	0.47
1:B:133:LYS:O	1:B:137:THR:HG23	2.15	0.47
1:B:257:ARG:N	1:B:258:PRO:CD	2.77	0.47
1:B:260:ILE:O	1:B:264:ARG:HG2	2.15	0.47
1:B:912:PRO:HB2	1:B:913:ARG:CZ	2.45	0.47
1:B:1349:LEU:CA	1:B:1353:PRO:HD2	2.44	0.47
1:B:1350:ASN:HD22	1:B:1404:LYS:HE3	1.79	0.47
1:B:1583:MSE:SE	1:B:1643:MSE:SE	3.32	0.47
1:B:1952:ILE:HG12	1:B:1953:CYS:H	1.79	0.47
1:B:2097:LEU:CD2	1:B:2100:LEU:HD22	2.45	0.47
1:B:2970:LYS:O	1:B:2974:GLU:HG2	2.14	0.47
1:B:3059:GLN:H	1:B:3059:GLN:CD	2.17	0.47
1:B:3284:SER:CA	1:B:3287:ARG:HE	2.12	0.47
1:B:3298:LEU:HD11	1:B:3351:ILE:CD1	2.45	0.47
1:B:3585:PHE:HE1	1:B:3617:LEU:HD11	1.79	0.47
1:B:3904:PHE:CE1	1:B:3967:PHE:HE1	2.32	0.47
1:B:3965:ARG:HE	1:B:3969:ASN:ND2	2.14	0.47
1:B:3981:TYR:HA	1:B:4108:MSE:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:PRO:HD3	1:A:282:PHE:CE2	2.50	0.46
1:A:358:GLU:OE1	1:A:1858:LEU:HD13	2.15	0.46
1:A:443:ILE:HD11	1:A:465:PHE:HE2	1.80	0.46
1:A:797:ASP:HA	1:A:800:LEU:HB2	1.96	0.46
1:A:934:LEU:HD21	1:A:962:TYR:CZ	2.49	0.46
1:A:1059:LEU:O	1:A:1062:ARG:N	2.48	0.46
1:A:1583:MSE:HE2	1:A:1639:LEU:HD13	1.97	0.46
1:A:1601:LEU:O	1:A:1605:PHE:HB2	2.14	0.46
1:A:1687:HIS:HB3	1:A:1691:GLN:NE2	2.30	0.46
1:A:2323:LEU:HD13	1:A:2371:PHE:CZ	2.50	0.46
1:A:2473:MSE:O	1:A:2476:ILE:HG12	2.14	0.46
1:A:2514:ASN:H	1:A:2515:PRO:CD	2.29	0.46
1:A:3620:PRO:HB2	1:A:3633:ILE:HG23	1.95	0.46
1:A:3699:LEU:O	1:A:3718:ARG:NH1	2.47	0.46
1:A:3887:PHE:HZ	1:A:3904:PHE:CD2	2.33	0.46
1:A:3928:PHE:CD1	1:A:3928:PHE:C	2.88	0.46
1:B:277:LEU:HD22	1:B:278:HIS:CD2	2.51	0.46
1:B:361:ILE:HB	1:B:364:ARG:NH2	2.30	0.46
1:B:670:LEU:HG	1:B:740:ILE:HG23	1.97	0.46
1:B:732:PHE:CE1	1:B:768:VAL:HG12	2.50	0.46
1:B:965:THR:HA	1:B:968:VAL:HG12	1.95	0.46
1:B:1563:PHE:CD1	1:B:1567:ILE:HG13	2.50	0.46
1:B:2404:ARG:NH1	1:B:2412:TYR:CE2	2.83	0.46
1:B:2439:ILE:HG21	1:B:2439:ILE:HD13	1.64	0.46
1:B:2554:PHE:O	1:B:2557:LEU:N	2.48	0.46
1:B:3457:ASN:O	1:B:3710:LYS:NZ	2.47	0.46
1:B:3722:PHE:HD1	1:B:3740:ILE:HA	1.80	0.46
1:B:4081:ALA:HA	1:B:4113:ASP:OD2	2.13	0.46
1:A:186:PRO:O	1:A:189:MSE:HB3	2.16	0.46
1:A:348:ILE:O	1:A:364:ARG:HD3	2.16	0.46
1:A:1010:LEU:O	1:A:1013:ILE:N	2.39	0.46
1:A:1373:VAL:O	1:A:1375:THR:N	2.41	0.46
1:A:1976:LEU:HD11	1:A:2031:LEU:CB	2.44	0.46
1:A:2186:VAL:O	1:A:2189:ILE:HG13	2.15	0.46
1:A:2199:LEU:HA	1:A:2202:PRO:HD2	1.97	0.46
1:A:2418:LYS:O	1:A:2421:VAL:HG12	2.15	0.46
1:A:2554:PHE:O	1:A:2557:LEU:HB2	2.16	0.46
1:A:2900:LEU:HD23	1:A:2910:VAL:HA	1.97	0.46
1:A:3008:TRP:CA	1:A:3050:LYS:HG2	2.44	0.46
1:A:3674:SER:C	1:A:3677:PRO:HD2	2.35	0.46
1:A:3931:ALA:HB3	1:A:3936:GLY:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4069:GLU:HA	1:A:4070:LYS:HA	1.64	0.46
1:B:135:LEU:O	1:B:139:ARG:HG3	2.15	0.46
1:B:381:VAL:O	1:B:384:MSE:HG2	2.14	0.46
1:B:401:ASP:HB2	1:B:1763:THR:HB	1.98	0.46
1:B:763:THR:HG21	1:B:769:GLY:HA3	1.97	0.46
1:B:1231:GLN:H	1:B:1232:PRO:CD	2.28	0.46
1:B:1259:LEU:HD11	1:B:1337:VAL:HA	1.97	0.46
1:B:1874:TYR:OH	1:B:1884:LEU:HD12	2.15	0.46
1:B:2289:ASP:O	1:B:2290:PRO:C	2.53	0.46
1:A:135:LEU:HD22	1:A:173:LYS:HB2	1.97	0.46
1:A:385:TYR:HE1	1:A:421:LEU:HD23	1.79	0.46
1:A:399:GLN:OE1	1:A:405:ASP:HB2	2.16	0.46
1:A:436:GLU:OE2	1:A:475:LEU:CD1	2.63	0.46
1:A:777:SER:O	1:A:781:ASP:N	2.48	0.46
1:A:1376:LEU:HG	1:A:1377:CYS:N	2.30	0.46
1:A:1495:ASP:O	1:A:1498:GLN:HB2	2.15	0.46
1:A:1696:LEU:HD23	1:A:1700:THR:HG21	1.97	0.46
1:A:1985:LYS:HD2	1:A:2037:SER:HB3	1.98	0.46
1:A:2233:HIS:O	1:A:2237:ILE:HG13	2.15	0.46
1:A:2823:PHE:CG	1:A:2824:LYS:N	2.83	0.46
1:A:2949:THR:O	1:A:2952:ILE:N	2.46	0.46
1:A:3141:PHE:CE1	1:A:3189:PHE:HA	2.51	0.46
1:A:3762:GLN:HA	1:A:3793:VAL:CG2	2.41	0.46
1:B:222:GLY:O	1:B:225:LYS:N	2.49	0.46
1:B:431:TYR:N	1:B:431:TYR:CD1	2.79	0.46
1:B:487:LEU:HD21	1:B:530:LEU:HB2	1.97	0.46
1:B:543:SER:O	1:B:545:LEU:N	2.37	0.46
1:B:789:TYR:HB2	1:B:865:GLN:HE21	1.81	0.46
1:B:1455:CYS:O	1:B:1458:LEU:N	2.49	0.46
1:B:1602:ASP:HB2	1:B:1810:PRO:HB3	1.98	0.46
1:B:2009:LYS:HG3	1:B:2012:ARG:NH1	2.30	0.46
1:B:2067:ARG:O	1:B:2068:ARG:HB2	2.14	0.46
1:B:3616:ALA:O	1:B:3617:LEU:HD23	2.16	0.46
1:B:3855:TYR:HB3	1:B:4074:PHE:HZ	1.80	0.46
1:B:4002:MSE:SE	1:B:4048:LYS:CE	3.12	0.46
1:A:350:ARG:NH1	1:A:387:GLU:OE1	2.49	0.46
1:A:730:LEU:HA	1:A:730:LEU:HD23	1.82	0.46
1:A:764:PRO:HB3	1:A:770:LEU:HD11	1.97	0.46
1:A:849:GLU:CD	1:A:849:GLU:H	2.18	0.46
1:A:1395:LEU:N	1:A:1396:PRO:HD2	2.30	0.46
1:A:1476:HIS:CE1	1:A:1507:CYS:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1589:ASN:O	1:A:1590:THR:HG22	2.16	0.46
1:A:1602:ASP:HB2	1:A:1810:PRO:HB3	1.96	0.46
1:A:1604:SER:CB	1:A:1632:TRP:HE3	2.28	0.46
1:A:1874:TYR:HD2	1:A:1885:PRO:HG3	1.80	0.46
1:A:2177:ASN:HB3	1:A:2182:ILE:N	2.30	0.46
1:A:2240:THR:HG21	2:K:112:UNK:HA	1.98	0.46
1:A:2310:VAL:HG23	1:A:2315:VAL:HG21	1.98	0.46
1:A:2834:GLN:O	1:A:2837:LEU:HG	2.15	0.46
1:B:70:ARG:HH12	1:B:117:LYS:HD2	1.80	0.46
1:B:158:GLY:O	1:B:162:LEU:HD13	2.15	0.46
1:B:241:ASP:HB3	1:B:282:PHE:HE2	1.78	0.46
1:B:852:ARG:HH12	1:B:3111:MSE:HG2	1.79	0.46
1:B:892:LEU:HD11	1:B:958:MSE:HG3	1.98	0.46
1:B:898:PHE:CD2	1:B:2566:THR:HG21	2.50	0.46
1:B:1809:ASP:O	1:B:1815:THR:HG22	2.14	0.46
1:B:1917:LYS:HE2	1:B:1953:CYS:O	2.14	0.46
1:B:2312:TYR:CZ	1:B:2313:LYS:HG2	2.50	0.46
1:B:3160:LEU:HD23	1:B:3164:TRP:CH2	2.51	0.46
1:B:3283:LEU:O	1:B:3283:LEU:HD22	2.16	0.46
1:B:3463:LEU:HD13	1:B:4000:ASN:CB	2.45	0.46
1:B:3740:ILE:HD12	1:B:3750:PHE:CE1	2.51	0.46
1:B:3816:LEU:O	1:B:3820:MSE:CB	2.64	0.46
1:A:429:GLU:HG2	1:A:1594:SER:HB2	1.97	0.46
1:A:964:ARG:CB	1:A:1009:LEU:HD22	2.35	0.46
1:A:993:HIS:HB2	1:A:1038:LYS:CG	2.45	0.46
1:A:1012:ALA:O	1:A:1015:ASP:HB3	2.15	0.46
1:A:1072:ALA:HB1	1:A:1076:LEU:CD1	2.46	0.46
1:A:1494:GLY:O	1:A:1498:GLN:HG3	2.15	0.46
1:A:1593:VAL:O	1:A:1597:LEU:CB	2.62	0.46
1:A:1636:ASP:HA	1:A:1639:LEU:HD11	1.98	0.46
1:A:1651:LYS:HD2	1:A:1684:LEU:HG	1.98	0.46
1:A:1897:ASN:HB3	1:A:1901:HIS:CE1	2.50	0.46
1:A:1933:LEU:H	1:A:1938:ARG:NH2	2.13	0.46
1:A:1934:LEU:HD11	1:A:1937:ARG:H	1.80	0.46
1:A:2923:TRP:CD1	1:A:2926:LEU:HD23	2.50	0.46
1:A:3121:LEU:O	1:A:3124:SER:HB2	2.14	0.46
1:A:3297:VAL:HG11	1:A:3332:THR:HG23	1.97	0.46
1:B:178:LEU:HB3	1:B:197:PHE:CE1	2.49	0.46
1:B:368:LEU:HD21	1:B:384:MSE:SE	2.66	0.46
1:B:648:SER:O	1:B:651:TYR:HB2	2.15	0.46
1:B:1423:ILE:HG13	1:B:1424:THR:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1447:ARG:O	1:B:1451:VAL:HG23	2.15	0.46
1:B:1592:MSE:O	1:B:1596:VAL:HG12	2.16	0.46
1:B:1865:THR:O	1:B:1869:LYS:HG3	2.16	0.46
1:B:2383:PHE:CE1	1:B:2412:TYR:HD1	2.34	0.46
1:B:2413:PHE:HD2	1:B:2445:LYS:HG3	1.76	0.46
1:B:3334:TYR:HE1	1:B:3426:LYS:HD3	1.81	0.46
1:B:3813:LYS:HE3	1:B:3926:ASN:HB2	1.98	0.46
1:B:4057:ALA:C	1:B:4059:ILE:N	2.69	0.46
1:B:4085:LYS:HA	1:B:4088:ASN:HB3	1.98	0.46
1:A:89:LEU:HA	1:A:92:PHE:CD2	2.50	0.46
1:A:434:VAL:HG23	1:A:437:HIS:CE1	2.51	0.46
1:A:471:LYS:HG3	1:A:1553:PHE:HZ	1.81	0.46
1:A:512:GLY:HA2	1:A:602:MSE:CE	2.45	0.46
1:A:649:PHE:C	1:A:651:TYR:H	2.18	0.46
1:A:749:VAL:N	1:A:750:PRO:CD	2.79	0.46
1:A:1917:LYS:HD2	1:A:1953:CYS:HB3	1.98	0.46
1:A:2177:ASN:HB2	1:A:2182:ILE:HG23	1.97	0.46
1:A:2232:ARG:O	1:A:2234:ASN:N	2.49	0.46
1:A:2260:PHE:CZ	1:A:2306:ASN:HB2	2.51	0.46
1:A:2371:PHE:CG	1:A:2372:PRO:HD3	2.51	0.46
1:A:2555:LEU:HD12	1:A:2556:SER:H	1.79	0.46
1:A:2575:PRO:HB3	1:A:2789:SER:N	2.31	0.46
1:A:2776:ARG:O	1:A:2780:LEU:HD23	2.15	0.46
1:A:3463:LEU:HD13	1:A:4000:ASN:HB2	1.97	0.46
1:A:3549:HIS:NE2	1:A:3553:GLU:HG3	2.30	0.46
1:A:3578:LEU:HB3	1:A:3579:SER:HA	1.97	0.46
1:A:3722:PHE:CE1	1:A:3740:ILE:HA	2.51	0.46
1:A:3817:LEU:HD23	1:A:3820:MSE:CE	2.45	0.46
1:A:3944:HIS:HA	1:A:4016:PHE:HZ	1.81	0.46
1:A:3966:GLN:HG2	1:A:4128:MSE:O	2.15	0.46
1:B:12:LEU:HD12	1:B:58:VAL:HG21	1.97	0.46
1:B:617:PRO:CB	1:B:659:ARG:HD2	2.45	0.46
1:B:1565:GLU:HG2	1:B:1566:THR:HG23	1.97	0.46
1:B:2142:ILE:O	1:B:2145:PHE:HB2	2.16	0.46
1:B:2159:PRO:HA	1:B:2162:LYS:HB2	1.98	0.46
1:B:2539:LEU:HB3	1:B:2816:ILE:CD1	2.46	0.46
1:B:3092:LEU:O	1:B:3192:LYS:NZ	2.42	0.46
1:B:3167:ARG:CD	1:B:3186:ARG:HG2	2.45	0.46
1:B:3578:LEU:HD13	1:B:3683:CYS:SG	2.56	0.46
1:B:3701:ILE:HG13	1:B:3701:ILE:O	2.15	0.46
1:A:231:LEU:HD23	1:A:234:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:608:PRO:HG2	1:A:1798:LEU:HD12	1.97	0.46
1:A:852:ARG:HH12	1:A:3110:PHE:HE1	1.61	0.46
1:A:1138:ILE:HD13	1:A:1150:LYS:CE	2.39	0.46
1:A:1382:ILE:HB	1:A:1386:ILE:CD1	2.44	0.46
1:A:1633:TRP:HA	1:A:1636:ASP:OD2	2.15	0.46
1:A:2004:TYR:CD1	1:A:2004:TYR:C	2.88	0.46
1:A:2097:LEU:HA	1:A:2097:LEU:HD23	1.77	0.46
1:A:2190:VAL:O	1:A:2193:ILE:HG22	2.16	0.46
1:A:2220:MSE:O	1:A:2223:VAL:HG12	2.16	0.46
1:A:2252:PRO:HA	1:A:2254:ARG:NH1	2.31	0.46
1:A:2433:LYS:HG3	1:A:2436:LEU:CD1	2.42	0.46
1:A:2861:ILE:HD12	1:A:2892:LEU:HD23	1.97	0.46
1:A:3971:MSE:HE1	1:A:3980:MSE:HE1	1.97	0.46
1:A:4066:LEU:HD21	1:A:4078:VAL:CG2	2.46	0.46
1:B:598:PRO:HG3	1:B:1022:ASP:O	2.16	0.46
1:B:655:LEU:HD12	1:B:655:LEU:HA	1.60	0.46
1:B:1119:LYS:NZ	1:B:1256:TRP:HE1	2.13	0.46
1:B:1449:ALA:HA	1:B:1452:VAL:HB	1.96	0.46
1:B:2002:LYS:C	1:B:2004:TYR:N	2.68	0.46
1:B:2374:LEU:N	1:B:2378:PHE:HE1	2.14	0.46
1:B:2926:LEU:HD22	1:B:2931:ARG:NE	2.31	0.46
1:B:2962:ARG:HG3	1:B:3253:SER:OG	2.16	0.46
1:B:3173:MSE:HG2	1:B:3174:ASP:OD1	2.15	0.46
1:B:3323:PHE:O	1:B:3326:GLN:N	2.48	0.46
1:B:3630:ARG:HD2	1:B:3633:ILE:HG12	1.98	0.46
1:B:3878:VAL:HB	1:B:3879:PRO:HD3	1.98	0.46
1:A:513:GLU:OE1	1:A:655:LEU:HB3	2.15	0.46
1:A:1132:ASP:O	1:A:1135:CYS:N	2.49	0.46
1:A:1378:GLU:O	1:A:1381:SER:N	2.49	0.46
1:A:1521:PHE:HA	1:A:1524:LEU:HD22	1.98	0.46
1:A:1652:ILE:HA	1:A:1655:ILE:HD12	1.97	0.46
1:A:2011:ALA:HB3	1:A:2014:ALA:HB2	1.98	0.46
1:A:2221:LYS:O	1:A:2225:HIS:CE1	2.69	0.46
1:A:2385:LEU:HG	1:A:2389:PHE:CZ	2.51	0.46
1:A:2828:GLU:O	1:A:2832:ILE:HG13	2.15	0.46
1:A:3024:PRO:N	1:A:3025:PRO:HD3	2.31	0.46
1:A:3059:GLN:CD	1:A:3059:GLN:H	2.19	0.46
1:A:3292:GLY:O	1:A:3297:VAL:HG23	2.15	0.46
1:A:3593:ARG:HH11	1:A:3593:ARG:HG2	1.81	0.46
1:A:3771:MSE:SE	1:A:3991:PHE:HE1	2.49	0.46
1:A:4077:TYR:CZ	1:A:4119:ARG:HD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:GLU:C	1:B:242:PRO:HD2	2.36	0.46
1:B:575:ILE:HB	1:B:605:THR:CA	2.46	0.46
1:B:1690:GLY:O	1:B:1694:THR:HG22	2.16	0.46
1:B:2000:ARG:HG2	1:B:2001:LYS:HG3	1.97	0.46
1:B:2369:LYS:HE3	1:B:2406:GLU:OE1	2.16	0.46
1:B:2869:LEU:HB3	1:B:2893:LEU:HG	1.96	0.46
1:B:3052:LEU:HD11	1:B:3092:LEU:HG	1.97	0.46
1:B:3241:LYS:C	1:B:3243:ILE:H	2.18	0.46
1:B:3272:TRP:CZ3	1:B:3307:LEU:HD21	2.51	0.46
1:B:3439:LEU:O	1:B:3443:PRO:HD3	2.16	0.46
1:B:3499:ILE:CG2	1:B:3535:ILE:HD13	2.41	0.46
1:B:3868:VAL:HG13	1:B:3872:ARG:HB2	1.98	0.46
1:A:67:VAL:HG22	1:A:110:THR:HG21	1.97	0.46
1:A:295:GLU:CD	1:A:341:PHE:HE1	2.19	0.46
1:A:431:TYR:N	1:A:431:TYR:CD1	2.84	0.46
1:A:805:LEU:HD13	1:A:3117:ILE:HD13	1.98	0.46
1:A:878:GLU:C	1:A:880:MSE:H	2.19	0.46
1:A:971:ARG:CG	1:A:972:LEU:N	2.69	0.46
1:A:973:ALA:HB1	1:A:977:ASP:OD2	2.16	0.46
1:A:1455:CYS:O	1:A:1458:LEU:HB2	2.16	0.46
1:A:1563:PHE:CE1	1:A:1567:ILE:HG13	2.51	0.46
1:A:1652:ILE:HG21	1:A:1716:GLN:OE1	2.15	0.46
1:A:1760:GLU:HB2	1:A:1894:SER:HA	1.97	0.46
1:A:2069:ARG:HG2	2:K:204:UNK:CB	2.46	0.46
1:A:2100:LEU:O	1:A:2104:MSE:HB2	2.16	0.46
1:A:2164:TRP:HH2	1:A:2190:VAL:CG1	2.29	0.46
1:A:2183:HIS:C	1:A:2187:VAL:HB	2.26	0.46
1:A:2232:ARG:HH22	1:A:2313:LYS:NZ	2.13	0.46
1:A:2255:LEU:HD12	1:A:2258:GLU:HB2	1.98	0.46
1:A:2517:LEU:HD23	1:A:2517:LEU:H	1.80	0.46
1:A:2801:ASP:HB2	1:A:2802:PRO:HD3	1.98	0.46
1:A:3092:LEU:O	1:A:3192:LYS:NZ	2.45	0.46
1:A:3694:PHE:CD2	1:A:3697:ASN:HA	2.51	0.46
1:B:172:GLU:HG2	1:B:221:ALA:HB3	1.98	0.46
1:B:398:THR:C	1:B:400:THR:N	2.68	0.46
1:B:403:GLY:C	1:B:405:ASP:N	2.67	0.46
1:B:560:LEU:CB	1:B:616:LYS:HG2	2.46	0.46
1:B:1747:LEU:HD23	1:B:1747:LEU:HA	1.77	0.46
1:B:2312:TYR:CG	1:B:2313:LYS:N	2.83	0.46
1:B:2900:LEU:HD23	1:B:2910:VAL:HA	1.98	0.46
1:B:3091:LEU:O	1:B:3192:LYS:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3141:PHE:HA	1:B:3144:PHE:CE2	2.51	0.46
1:B:3408:GLY:O	1:B:3411:ASP:HB2	2.16	0.46
1:B:3534:ILE:HD12	1:B:3534:ILE:H	1.79	0.46
1:B:3829:LEU:HA	1:B:3829:LEU:HD12	1.60	0.46
1:A:982:GLN:O	1:A:986:PRO:CD	2.63	0.46
1:A:1133:HIS:O	1:A:1133:HIS:CG	2.68	0.46
1:A:1856:THR:HB	1:A:1860:GLU:OE1	2.16	0.46
1:A:1927:MSE:HE3	1:A:1927:MSE:HB2	1.62	0.46
1:A:2129:LEU:HD22	1:A:2144:LEU:HD11	1.96	0.46
1:A:2313:LYS:HA	1:A:2316:TYR:HE2	1.79	0.46
1:A:3583:LEU:HD21	1:A:3733:ARG:NH1	2.31	0.46
1:A:3780:ALA:CB	1:A:3784:ARG:HH12	2.29	0.46
1:A:3819:THR:O	1:A:3823:GLU:HG2	2.16	0.46
1:A:3900:LEU:HD12	1:A:3900:LEU:HA	1.80	0.46
1:A:4062:ASP:O	1:A:4066:LEU:HD13	2.16	0.46
1:B:257:ARG:H	1:B:258:PRO:CD	2.29	0.46
1:B:408:TYR:CD1	1:B:408:TYR:C	2.90	0.46
1:B:504:GLU:O	1:B:508:HIS:CG	2.69	0.46
1:B:578:LYS:O	1:B:581:LEU:HB2	2.16	0.46
1:B:620:PHE:HE1	1:B:623:PHE:HD2	1.64	0.46
1:B:752:LEU:HB2	1:B:756:PHE:CE1	2.51	0.46
1:B:1430:GLU:OE1	1:B:1448:LEU:HA	2.16	0.46
1:B:1810:PRO:O	1:B:1811:ARG:HD2	2.16	0.46
1:B:1889:VAL:HG22	1:B:1900:PHE:CD2	2.51	0.46
1:B:1911:LEU:HD13	1:B:1916:ILE:HG22	1.97	0.46
1:B:2135:ASN:N	1:B:2136:PRO:CD	2.79	0.46
1:B:2161:ALA:O	1:B:2164:TRP:HB2	2.16	0.46
1:B:2241:LEU:H	1:B:2241:LEU:HG	1.53	0.46
1:B:2352:HIS:O	1:B:2360:PHE:HD2	1.99	0.46
1:B:2373:PRO:HA	1:B:2378:PHE:HZ	1.80	0.46
1:B:2386:LEU:O	1:B:2390:HIS:CB	2.64	0.46
1:B:2957:LEU:HB3	1:B:4100:GLU:OE2	2.16	0.46
1:B:3483:MSE:O	1:B:3516:HIS:CE1	2.69	0.46
1:B:3872:ARG:O	1:B:3876:SER:CB	2.64	0.46
1:A:93:LEU:HD23	1:A:93:LEU:HA	1.78	0.45
1:A:252:VAL:HB	1:A:265:TYR:HD1	1.81	0.45
1:A:382:ASP:O	1:A:386:VAL:CB	2.58	0.45
1:A:752:LEU:HB2	1:A:756:PHE:HE1	1.79	0.45
1:A:1426:GLN:O	1:A:1430:GLU:HG3	2.16	0.45
1:A:1802:TYR:HA	1:A:1805:PHE:CD2	2.48	0.45
1:A:2035:THR:O	1:A:2039:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2147:ALA:O	1:A:2151:ILE:N	2.49	0.45
1:A:2223:VAL:HG21	1:A:2238:ILE:HB	1.98	0.45
1:A:2356:MSE:HE2	1:A:2359:LYS:HD2	1.97	0.45
1:A:2874:ALA:O	1:A:2878:ALA:N	2.50	0.45
1:A:2921:LEU:HD12	1:A:2922:ARG:N	2.31	0.45
1:A:3326:GLN:OE1	1:A:3393:GLU:OE2	2.34	0.45
1:A:3413:TYR:CD1	1:A:3449:LYS:HB3	2.51	0.45
1:A:3564:GLN:C	1:A:3566:GLY:H	2.19	0.45
1:A:3997:LEU:O	1:A:4001:THR:HG23	2.17	0.45
1:B:406:ARG:HB3	1:B:408:TYR:CD2	2.51	0.45
1:B:528:VAL:HA	1:B:531:PHE:CE2	2.51	0.45
1:B:634:LEU:O	1:B:638:GLN:NE2	2.49	0.45
1:B:756:PHE:CD2	1:B:773:LEU:HB3	2.51	0.45
1:B:1014:LEU:HB2	1:B:1078:ALA:CB	2.43	0.45
1:B:1630:ASP:HA	1:B:1633:TRP:HE3	1.81	0.45
1:B:1879:VAL:HG23	1:B:1920:TYR:CD2	2.51	0.45
1:B:1989:ASN:HB3	1:B:2040:MSE:SE	2.66	0.45
1:B:2373:PRO:HA	1:B:2378:PHE:CZ	2.51	0.45
1:B:2389:PHE:CG	1:B:2396:LEU:HD22	2.51	0.45
1:B:2405:VAL:O	1:B:2408:MSE:HB2	2.16	0.45
1:B:2538:ARG:NH1	1:B:2562:LEU:HA	2.31	0.45
1:B:2908:LYS:HD3	1:B:2908:LYS:HA	1.72	0.45
1:B:3582:GLU:OE2	1:B:3675:LYS:HG3	2.16	0.45
1:B:3703:GLY:H	1:B:3717:VAL:HG13	1.80	0.45
1:B:3866:GLU:HA	1:B:3869:THR:OG1	2.16	0.45
1:B:3954:PRO:CB	1:B:4027:TRP:HA	2.46	0.45
1:A:44:LEU:H	1:A:44:LEU:HG	1.54	0.45
1:A:264:ARG:O	1:A:268:PRO:HD3	2.15	0.45
1:A:356:ASN:OD1	1:A:1859:ASN:HB2	2.16	0.45
1:A:760:LEU:O	1:A:764:PRO:HG3	2.16	0.45
1:A:968:VAL:O	1:A:971:ARG:HG2	2.16	0.45
1:A:992:ILE:HD13	1:A:1035:GLU:HB2	1.98	0.45
1:A:1076:LEU:HD21	1:A:1114:ALA:HB1	1.99	0.45
1:A:1334:LYS:HD3	1:A:1334:LYS:HA	1.82	0.45
1:A:1386:ILE:HB	1:A:1391:VAL:CG2	2.45	0.45
1:A:1460:ARG:H	1:A:1460:ARG:HD2	1.81	0.45
1:A:1894:SER:O	1:A:1897:ASN:N	2.33	0.45
1:A:1966:LEU:HD22	1:A:1991:PRO:CB	2.42	0.45
1:A:2423:VAL:O	1:A:2425:ARG:N	2.50	0.45
1:A:2785:ILE:O	1:A:2785:ILE:HG12	2.16	0.45
1:A:2806:LYS:O	1:A:2806:LYS:HG2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3141:PHE:HA	1:A:3144:PHE:CE2	2.51	0.45
1:A:3530:VAL:HA	1:A:3533:PHE:CD2	2.51	0.45
1:B:392:CYS:SG	1:B:438:LEU:HD11	2.57	0.45
1:B:637:LYS:O	1:B:641:PHE:CB	2.58	0.45
1:B:657:SER:O	1:B:660:LEU:HB2	2.16	0.45
1:B:910:PHE:HE2	1:B:941:MSE:SE	2.49	0.45
1:B:1559:PHE:CE1	1:B:1592:MSE:HE2	2.52	0.45
1:B:1875:LYS:HG3	1:B:1876:ILE:HB	1.99	0.45
1:B:2157:PHE:CD1	1:B:2157:PHE:C	2.90	0.45
1:B:2316:TYR:O	1:B:2319:ALA:HB3	2.17	0.45
1:B:2893:LEU:O	1:B:2897:LEU:N	2.47	0.45
1:B:2957:LEU:HD21	1:B:4101:GLU:HG3	1.97	0.45
1:B:3243:ILE:HG12	1:B:3258:LEU:CD1	2.40	0.45
1:B:3393:GLU:O	1:B:3397:GLN:OE1	2.34	0.45
1:B:3808:ASN:HB3	1:B:3933:GLU:HG2	1.98	0.45
1:B:3920:ILE:HD13	1:B:3961:PHE:HA	1.98	0.45
1:B:4090:ARG:HA	1:B:4090:ARG:HD3	1.71	0.45
1:A:19:LEU:O	1:A:23:ASP:CB	2.62	0.45
1:A:252:VAL:C	1:A:254:LYS:H	2.20	0.45
1:A:313:LEU:HD22	1:A:317:GLU:OE2	2.16	0.45
1:A:1099:PHE:CG	1:A:1100:VAL:N	2.84	0.45
1:A:1416:GLU:HB3	1:A:1420:ARG:HD2	1.97	0.45
1:A:1604:SER:HA	1:A:1632:TRP:HE3	1.80	0.45
1:A:1939:LEU:HD13	1:A:1986:ARG:NH2	2.30	0.45
1:A:2074:PRO:HB3	1:A:2136:PRO:HB3	1.98	0.45
1:A:2126:MSE:HE2	1:A:2126:MSE:HB2	1.79	0.45
1:A:2260:PHE:HZ	1:A:2306:ASN:HB2	1.82	0.45
1:A:2940:ARG:HD3	1:A:3975:LYS:HD2	1.97	0.45
1:A:3291:GLN:NE2	1:A:3294:SER:OG	2.50	0.45
1:A:3477:GLU:HA	1:A:3480:LEU:HG	1.98	0.45
1:A:3513:ALA:O	1:A:3516:HIS:N	2.49	0.45
1:A:3612:ARG:HD3	1:A:3799:ARG:HH21	1.82	0.45
1:A:3771:MSE:HE1	1:A:3917:ILE:HG21	1.97	0.45
1:A:3853:GLY:C	1:A:3855:TYR:H	2.18	0.45
1:A:3981:TYR:CE1	1:A:4105:LYS:HA	2.51	0.45
1:B:11:SER:OG	1:B:41:GLU:OE1	2.34	0.45
1:B:226:GLY:O	1:B:230:LEU:HD23	2.16	0.45
1:B:264:ARG:HD3	1:B:264:ARG:HA	1.75	0.45
1:B:488:ILE:HG21	1:B:616:LYS:CD	2.38	0.45
1:B:617:PRO:HB3	1:B:659:ARG:CG	2.46	0.45
1:B:706:LEU:CD2	1:B:1385:ASN:HD22	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:789:TYR:HD2	1:B:865:GLN:CG	2.29	0.45
1:B:1014:LEU:HD23	1:B:1028:PHE:CE2	2.51	0.45
1:B:1651:LYS:CE	1:B:1684:LEU:HD21	2.46	0.45
1:B:1801:VAL:HG12	1:B:1805:PHE:CE2	2.52	0.45
1:B:2912:GLY:O	1:B:2915:ARG:CZ	2.65	0.45
1:B:3459:ASN:CG	1:B:3710:LYS:HZ3	2.19	0.45
1:A:48:PRO:O	1:A:50:VAL:N	2.50	0.45
1:A:185:HIS:N	1:A:186:PRO:HD2	2.18	0.45
1:A:244:THR:O	1:A:248:ILE:HG13	2.16	0.45
1:A:249:PHE:CG	1:A:297:LEU:HD13	2.52	0.45
1:A:443:ILE:HD11	1:A:465:PHE:CE2	2.52	0.45
1:A:1685:ASP:HA	1:A:1728:GLU:OE2	2.16	0.45
1:A:1727:ARG:NH1	1:A:1728:GLU:OE1	2.50	0.45
1:A:2286:PRO:HD2	1:A:2329:TYR:CE2	2.50	0.45
1:A:2539:LEU:HA	1:A:2542:LEU:HD23	1.98	0.45
1:A:2553:HIS:ND1	1:A:2803:ILE:HD12	2.32	0.45
1:A:2563:LEU:O	1:A:2567:SER:CB	2.65	0.45
1:A:3141:PHE:HZ	1:A:3192:LYS:CB	2.30	0.45
1:A:3868:VAL:HG12	1:A:3872:ARG:HE	1.81	0.45
1:A:4059:ILE:HD11	1:A:4082:ARG:HD2	1.99	0.45
1:B:396:PHE:CG	1:B:397:LEU:N	2.83	0.45
1:B:433:PRO:CB	1:B:1812:LEU:HB3	2.47	0.45
1:B:764:PRO:CB	1:B:848:LEU:HD11	2.46	0.45
1:B:1093:GLU:O	1:B:1096:VAL:HG12	2.17	0.45
1:B:1577:LEU:HD12	1:B:1578:ALA:HB2	1.99	0.45
1:B:1879:VAL:O	1:B:1882:SER:N	2.48	0.45
1:B:2038:GLU:OE1	1:B:2076:VAL:HG22	2.17	0.45
1:B:2271:SER:OG	1:B:2272:VAL:N	2.50	0.45
1:B:4108:MSE:O	1:B:4111:ALA:N	2.44	0.45
1:A:910:PHE:H	1:A:912:PRO:HD2	1.82	0.45
1:A:933:LEU:HD21	1:A:2795:GLN:NE2	2.31	0.45
1:A:1090:ARG:NH2	1:A:1100:VAL:HG11	2.17	0.45
1:A:1363:LEU:HD23	1:A:1363:LEU:HA	1.70	0.45
1:A:1479:VAL:O	1:A:1482:GLU:HB2	2.15	0.45
1:A:1894:SER:O	1:A:1896:ILE:N	2.49	0.45
1:A:2137:ILE:HG22	1:A:2141:ASN:HD21	1.82	0.45
1:A:2164:TRP:HZ3	1:A:2186:VAL:HG23	1.81	0.45
1:A:2196:TRP:NE1	1:A:2200:ALA:HB2	2.31	0.45
1:A:2538:ARG:NH1	1:A:2566:THR:N	2.64	0.45
1:A:2808:LEU:O	1:A:2811:SER:OG	2.31	0.45
1:A:3764:VAL:O	1:A:3768:PHE:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:437:HIS:HA	1:B:1814:PHE:CE2	2.52	0.45
1:B:733:LEU:HD23	1:B:733:LEU:N	2.31	0.45
1:B:906:PHE:HA	1:B:909:VAL:HB	1.98	0.45
1:B:1468:LEU:O	1:B:1472:SER:N	2.50	0.45
1:B:1686:LEU:HD23	1:B:1686:LEU:HA	1.56	0.45
1:B:1971:PRO:O	1:B:1972:GLU:HG2	2.16	0.45
1:B:2028:LEU:HB2	1:B:2030:TYR:CE2	2.52	0.45
1:B:2193:ILE:CD1	1:B:2245:TRP:CZ2	2.99	0.45
1:B:2524:PHE:HA	1:B:2527:HIS:HB3	1.98	0.45
1:B:2937:ASP:OD2	1:B:3976:GLU:HB2	2.16	0.45
1:B:3005:LEU:H	1:B:3005:LEU:HG	1.60	0.45
1:B:3048:LYS:HB2	1:B:3048:LYS:HE3	1.77	0.45
1:B:3160:LEU:HB3	1:B:3164:TRP:CH2	2.52	0.45
1:B:3454:LEU:HD23	1:B:3454:LEU:HA	1.59	0.45
1:B:3881:ASP:OD1	1:B:3884:LYS:NZ	2.47	0.45
1:B:4066:LEU:CD2	1:B:4075:ARG:HG3	2.46	0.45
1:A:260:ILE:HG22	1:A:264:ARG:NH1	2.27	0.45
1:A:706:LEU:HD21	1:A:1388:ASP:OD2	2.15	0.45
1:A:763:THR:HG21	1:A:769:GLY:HA3	1.99	0.45
1:A:971:ARG:HD2	1:A:1024:THR:CG2	2.44	0.45
1:A:977:ASP:CB	1:A:981:ARG:H	2.24	0.45
1:A:1147:LYS:O	1:A:1151:ARG:NE	2.50	0.45
1:A:1161:ALA:O	1:A:1260:LEU:HD13	2.17	0.45
1:A:1917:LYS:HD2	1:A:1953:CYS:SG	2.57	0.45
1:A:2327:LEU:HA	1:A:2330:VAL:HG12	1.98	0.45
1:A:2379:MSE:HE1	1:A:2404:ARG:NH1	2.26	0.45
1:A:2427:ARG:HB3	1:A:2433:LYS:HB2	1.98	0.45
1:A:2806:LYS:HA	1:A:2809:PHE:CE2	2.50	0.45
1:A:2950:LYS:HE2	1:A:4105:LYS:HZ1	1.80	0.45
1:A:3944:HIS:CE1	1:A:4020:MSE:HE3	2.52	0.45
1:A:4013:TRP:HB2	1:A:4040:PRO:HG2	1.98	0.45
1:B:279:ALA:HA	1:B:282:PHE:CD2	2.52	0.45
1:B:542:ASP:HA	1:B:545:LEU:CD1	2.47	0.45
1:B:560:LEU:HA	1:B:563:LEU:HB2	1.99	0.45
1:B:586:GLN:OE1	1:B:1088:GLU:HG2	2.17	0.45
1:B:763:THR:N	1:B:764:PRO:HD3	2.31	0.45
1:B:982:GLN:O	1:B:986:PRO:CD	2.64	0.45
1:B:1299:GLU:HA	1:B:1302:ALA:HB3	1.99	0.45
1:B:1652:ILE:HG12	1:B:1717:LEU:HD11	1.99	0.45
1:B:2913:LYS:O	1:B:2916:LEU:N	2.25	0.45
1:B:3268:THR:O	1:B:3271:ASP:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3518:VAL:HA	1:B:3521:ILE:HG22	1.98	0.45
1:B:3880:ALA:HB1	1:B:3969:ASN:HB3	1.99	0.45
1:B:3890:MSE:O	1:B:3891:SER:OG	2.33	0.45
1:B:3916:TRP:CZ3	1:B:3917:ILE:HD12	2.52	0.45
1:A:65:LEU:HD23	1:A:68:PHE:CZ	2.52	0.45
1:A:313:LEU:HD13	1:A:317:GLU:OE2	2.16	0.45
1:A:575:ILE:N	1:A:605:THR:OG1	2.50	0.45
1:A:799:TYR:O	1:A:801:LYS:N	2.50	0.45
1:A:916:GLU:HA	1:A:919:LEU:HG	1.99	0.45
1:A:1147:LYS:HG2	1:A:1180:GLN:HG2	1.97	0.45
1:A:1996:VAL:HG23	1:A:1997:PRO:HD3	1.98	0.45
1:A:2004:TYR:OH	1:A:2055:SER:HB3	2.16	0.45
1:A:2077:HIS:HB3	1:A:2081:LEU:HG	1.99	0.45
1:A:2236:GLU:H	1:A:2236:GLU:HG3	1.46	0.45
1:A:2485:ARG:HA	1:A:2499:PHE:HE2	1.82	0.45
1:A:3077:ILE:O	1:A:3081:HIS:CG	2.70	0.45
1:A:3244:ASP:O	1:A:3247:ARG:HB3	2.16	0.45
1:A:3458:SER:OG	1:A:3494:GLN:NE2	2.49	0.45
1:A:3572:ILE:HD13	1:A:3575:LEU:HD12	1.97	0.45
1:A:3575:LEU:C	1:A:3577:GLN:H	2.18	0.45
1:A:3619:ASP:N	1:A:3620:PRO:CD	2.80	0.45
1:A:3670:MSE:HE3	1:A:3670:MSE:HB2	1.78	0.45
1:A:3834:ALA:H	1:A:3835:PRO:HD3	1.81	0.45
1:A:3955:VAL:HG12	1:A:4027:TRP:NE1	2.24	0.45
1:A:3958:LEU:O	1:A:3958:LEU:HD12	2.17	0.45
1:A:4077:TYR:OH	1:A:4116:ILE:HA	2.17	0.45
1:B:215:PRO:HB3	1:B:251:PHE:CD2	2.51	0.45
1:B:348:ILE:HG23	1:B:357:LYS:HE3	1.98	0.45
1:B:743:LEU:HD23	1:B:783:HIS:HE1	1.82	0.45
1:B:901:MSE:HG3	1:B:2819:GLU:HB2	1.98	0.45
1:B:980:THR:HG23	1:B:984:TYR:HE2	1.80	0.45
1:B:1039:TRP:CH2	1:B:1052:SER:HB3	2.51	0.45
1:B:1269:THR:CG2	1:B:1275:THR:HG21	2.46	0.45
1:B:1378:GLU:HB3	1:B:1379:PRO:CD	2.46	0.45
1:B:1517:LEU:HD13	1:B:1585:SER:HB2	1.99	0.45
1:B:1876:ILE:O	1:B:1877:LEU:HG	2.16	0.45
1:B:2265:PRO:HD3	1:B:2309:PHE:HZ	1.79	0.45
1:B:2459:VAL:HG13	1:B:2505:VAL:HG13	1.98	0.45
1:B:2462:VAL:CG2	1:B:2473:MSE:SE	3.13	0.45
1:B:3312:VAL:O	1:B:3314:SER:N	2.50	0.45
1:B:3315:TYR:CG	1:B:3316:LEU:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3812:LEU:O	1:B:3816:LEU:HB2	2.16	0.45
1:B:3813:LYS:CE	1:B:3926:ASN:HB2	2.46	0.45
1:A:436:GLU:O	1:A:440:VAL:HG13	2.17	0.45
1:A:460:ALA:O	1:A:464:VAL:HG12	2.17	0.45
1:A:557:SER:HA	1:A:560:LEU:CD2	2.47	0.45
1:A:933:LEU:HA	1:A:933:LEU:HD12	1.56	0.45
1:A:1027:ASP:O	1:A:1031:ARG:HG2	2.17	0.45
1:A:1033:ILE:HG13	1:A:1089:PHE:HE2	1.82	0.45
1:A:1737:ASN:C	1:A:1739:TYR:N	2.69	0.45
1:A:2222:HIS:O	1:A:2224:PHE:N	2.49	0.45
1:A:2327:LEU:HD12	1:A:2371:PHE:HB2	1.98	0.45
1:A:3273:LEU:HD13	1:A:3321:LEU:HD13	1.99	0.45
1:A:3516:HIS:CE1	1:A:3517:SER:HG	2.34	0.45
1:A:3784:ARG:HB2	1:A:3786:LEU:HG	1.99	0.45
1:A:3820:MSE:HB2	1:A:3882:LEU:HD13	1.98	0.45
1:A:3967:PHE:CG	1:A:3968:ILE:N	2.84	0.45
1:B:63:PHE:O	1:B:66:LEU:HG	2.17	0.45
1:B:252:VAL:C	1:B:254:LYS:H	2.20	0.45
1:B:759:GLY:HA3	1:B:773:LEU:HD11	1.98	0.45
1:B:2196:TRP:NE1	1:B:2200:ALA:HB2	2.30	0.45
1:B:2402:LEU:HA	1:B:2405:VAL:HG22	1.97	0.45
1:B:3168:TYR:HB3	1:B:3169:PRO:HD3	1.99	0.45
1:B:3181:ASP:HA	1:B:3184:THR:CG2	2.45	0.45
1:B:3438:GLU:HB3	1:B:3442:TYR:HE2	1.82	0.45
1:B:3525:TYR:OH	1:B:3561:LYS:HB2	2.17	0.45
1:B:3594:ALA:CB	1:B:4028:ILE:HD13	2.45	0.45
1:B:3961:PHE:CE1	1:B:3963:LEU:HB2	2.51	0.45
1:B:4077:TYR:HB2	1:B:4119:ARG:NH2	2.32	0.45
1:A:16:GLN:OE1	1:A:61:ARG:HB2	2.17	0.45
1:A:513:GLU:HG2	1:A:653:LEU:HD11	1.99	0.45
1:A:1402:LEU:O	1:A:1406:LEU:HD23	2.17	0.45
1:A:1685:ASP:HB3	1:A:1728:GLU:OE1	2.16	0.45
1:A:1762:MSE:HG2	1:A:1864:ASP:OD1	2.17	0.45
1:A:1858:LEU:O	1:A:1861:SER:HB2	2.16	0.45
1:A:1911:LEU:HD13	1:A:1916:ILE:CG2	2.45	0.45
1:A:1975:LEU:HA	1:A:1976:LEU:HD23	1.98	0.45
1:A:2226:PRO:O	1:A:2230:VAL:N	2.43	0.45
1:A:2253:TYR:HE1	1:A:2280:VAL:HG22	1.82	0.45
1:A:2439:ILE:C	1:A:2441:LYS:H	2.20	0.45
1:A:2777:HIS:O	1:A:2781:PRO:HD3	2.17	0.45
1:A:3930:VAL:HA	1:A:3937:VAL:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:114:VAL:HG12	1:B:130:LEU:HD11	1.98	0.45
1:B:262:LEU:H	1:B:262:LEU:HG	1.60	0.45
1:B:321:LYS:O	1:B:325:ASN:HB2	2.17	0.45
1:B:396:PHE:CZ	1:B:437:HIS:CD2	3.05	0.45
1:B:468:LEU:HD22	1:B:475:LEU:CD2	2.46	0.45
1:B:633:ILE:HG22	1:B:634:LEU:CD2	2.46	0.45
1:B:912:PRO:O	1:B:916:GLU:HG3	2.16	0.45
1:B:927:LYS:HE2	1:B:927:LYS:HB3	1.80	0.45
1:B:1598:ASN:ND2	1:B:1811:ARG:HG2	2.32	0.45
1:B:1886:LYS:NZ	1:B:1944:ALA:O	2.47	0.45
1:B:2039:GLU:HG2	1:B:2077:HIS:CE1	2.52	0.45
1:B:2087:GLU:OE2	1:B:2138:VAL:HG12	2.17	0.45
1:B:3110:PHE:C	1:B:3114:TYR:HD1	2.20	0.45
1:B:3498:TRP:HB2	1:B:3501:HIS:HB2	1.99	0.45
1:B:3550:LYS:HZ3	1:B:3554:PHE:HD2	1.58	0.45
1:B:3863:ASN:O	1:B:3867:THR:HG23	2.16	0.45
1:B:4056:PRO:HD2	1:B:4059:ILE:HG22	1.99	0.45
1:A:111:CYS:HB3	1:A:134:LEU:HB3	1.98	0.45
1:A:275:PHE:O	1:A:277:LEU:N	2.50	0.45
1:A:763:THR:OG1	1:A:770:LEU:HD23	2.17	0.45
1:A:1300:SER:O	1:A:1304:HIS:ND1	2.36	0.45
1:A:1305:ASP:OD1	1:A:1306:ILE:N	2.50	0.45
1:A:1357:LYS:O	1:A:1357:LYS:HG2	2.17	0.45
1:A:1464:LEU:O	1:A:1468:LEU:N	2.43	0.45
1:A:1645:VAL:HG22	1:A:1709:GLU:OE1	2.17	0.45
1:A:1806:ARG:O	1:A:1810:PRO:HD3	2.17	0.45
1:A:1915:LEU:CD1	1:A:1916:ILE:HG13	2.46	0.45
1:A:1991:PRO:HD2	1:A:1992:VAL:H	1.81	0.45
1:A:2356:MSE:SE	1:A:2360:PHE:CE1	3.20	0.45
1:A:2959:ALA:O	1:A:3251:ASN:HA	2.17	0.45
1:A:2972:TYR:CE2	1:A:2991:LYS:NZ	2.84	0.45
1:A:3425:ARG:NH2	1:A:3467:ARG:NH1	2.65	0.45
1:B:362:ALA:HB2	1:B:409:GLN:NE2	2.29	0.45
1:B:1032:CYS:HB3	1:B:1036:PHE:HZ	1.77	0.45
1:B:1301:ILE:HA	1:B:1304:HIS:HB2	1.99	0.45
1:B:1583:MSE:HE3	1:B:1643:MSE:HB3	1.98	0.45
1:B:1655:ILE:CG1	1:B:1681:ASP:HB3	2.47	0.45
1:B:2070:GLU:HG3	1:B:2072:ARG:CG	2.38	0.45
1:B:2164:TRP:HH2	1:B:2190:VAL:CG1	2.30	0.45
1:B:2219:LEU:HD23	1:B:2219:LEU:HA	1.76	0.45
1:B:2220:MSE:HE1	1:B:2256:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2313:LYS:O	1:B:2316:TYR:HE1	2.00	0.45
1:B:2555:LEU:HD22	1:B:2809:PHE:CE2	2.52	0.45
1:B:2883:SER:HA	1:B:2886:GLN:NE2	2.30	0.45
1:B:3493:TRP:CZ2	1:B:3496:ILE:HG21	2.52	0.45
1:A:437:HIS:CE1	1:A:1813:SER:HG	2.35	0.44
1:A:601:TRP:HE3	1:A:601:TRP:H	1.65	0.44
1:A:865:GLN:N	1:A:865:GLN:OE1	2.49	0.44
1:A:868:LYS:HA	1:A:871:LEU:HD12	1.99	0.44
1:A:909:VAL:HG12	1:A:937:MSE:SE	2.67	0.44
1:A:1249:SER:O	1:A:1253:THR:CB	2.63	0.44
1:A:1249:SER:HA	1:A:3698:GLU:OE2	2.17	0.44
1:A:2145:PHE:CE2	1:A:2185:MSE:SE	3.20	0.44
1:A:2203:THR:HG23	1:A:2245:TRP:HH2	1.82	0.44
1:A:2634:UNK:O	1:A:2637:UNK:N	2.50	0.44
1:A:3186:ARG:O	1:A:3189:PHE:HB2	2.17	0.44
1:A:3751:LEU:HD13	1:A:3805:TRP:HB2	1.98	0.44
1:A:3872:ARG:O	1:A:3876:SER:CB	2.65	0.44
1:A:3961:PHE:HE1	1:A:3963:LEU:HB2	1.76	0.44
1:A:4025:GLY:O	1:A:4028:ILE:HG22	2.17	0.44
1:A:4090:ARG:HA	1:A:4090:ARG:HD3	1.83	0.44
1:B:82:ARG:NH1	1:B:114:VAL:HG13	2.32	0.44
1:B:109:ASN:HA	1:B:112:THR:HG22	1.99	0.44
1:B:550:PHE:CE1	1:B:633:ILE:HA	2.52	0.44
1:B:805:LEU:HD13	1:B:3117:ILE:CD1	2.46	0.44
1:B:989:MSE:HG2	1:B:1031:ARG:NH1	2.32	0.44
1:B:1137:ILE:O	1:B:1140:LYS:HD2	2.18	0.44
1:B:1438:GLY:HA2	1:B:1491:ILE:HD11	1.99	0.44
1:B:2147:ALA:O	1:B:2151:ILE:HG13	2.17	0.44
1:B:2960:GLU:O	1:B:2965:TYR:HD1	2.00	0.44
1:B:2970:LYS:CE	1:B:2974:GLU:OE2	2.65	0.44
1:B:3479:THR:OG1	1:B:3483:MSE:SE	2.85	0.44
1:B:3862:ALA:O	1:B:3866:GLU:HG3	2.17	0.44
1:B:4121:TRP:CG	1:B:4122:GLU:N	2.85	0.44
1:A:74:ASN:HB3	1:A:75:SER:H	1.44	0.44
1:A:187:SER:O	1:A:190:ILE:HG22	2.16	0.44
1:A:567:GLU:OE1	1:A:1798:LEU:HD13	2.18	0.44
1:A:1358:LEU:HD23	1:A:1358:LEU:O	2.17	0.44
1:A:1684:LEU:HD23	1:A:1687:HIS:HD2	1.83	0.44
1:A:1918:LEU:HD11	1:A:1957:ASN:HD22	1.81	0.44
1:A:2227:LYS:C	1:A:2229:ALA:H	2.21	0.44
1:A:2866:ALA:O	1:A:2869:LEU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3172:LYS:HG3	1:A:3178:ILE:HG21	1.99	0.44
1:A:3427:GLU:HG3	1:A:3439:LEU:HD13	1.99	0.44
1:B:84:GLU:O	1:B:88:PHE:HD2	2.01	0.44
1:B:89:LEU:HA	1:B:92:PHE:CD2	2.52	0.44
1:B:91:ILE:O	1:B:95:LYS:HG3	2.17	0.44
1:B:414:LEU:O	1:B:414:LEU:HG	2.14	0.44
1:B:732:PHE:HB2	1:B:733:LEU:CD2	2.47	0.44
1:B:934:LEU:O	1:B:938:VAL:HG23	2.17	0.44
1:B:955:ALA:O	1:B:959:TYR:CB	2.66	0.44
1:B:1701:SER:OG	1:B:1702:LEU:N	2.51	0.44
1:B:2004:TYR:CG	1:B:2054:TYR:HB3	2.52	0.44
1:B:2007:ILE:HG22	1:B:2009:LYS:CB	2.47	0.44
1:B:2093:CYS:C	1:B:2096:PRO:HD2	2.37	0.44
1:B:2442:MSE:H	1:B:2442:MSE:HG2	1.62	0.44
1:B:3619:ASP:N	1:B:3620:PRO:CD	2.80	0.44
1:B:3764:VAL:HG13	1:B:3918:LEU:HD21	1.99	0.44
1:B:3912:CYS:HB3	1:B:3961:PHE:CG	2.52	0.44
1:B:3974:MSE:HB3	1:B:3976:GLU:N	2.32	0.44
1:A:172:GLU:HA	1:A:222:GLY:HA3	1.99	0.44
1:A:185:HIS:H	1:A:186:PRO:CD	2.19	0.44
1:A:385:TYR:OH	1:A:421:LEU:HD23	2.18	0.44
1:A:409:GLN:HG3	1:A:413:PHE:CE2	2.53	0.44
1:A:433:PRO:CB	1:A:1812:LEU:HA	2.48	0.44
1:A:456:VAL:O	1:A:459:ARG:HB2	2.18	0.44
1:A:1282:LEU:HD12	1:A:1282:LEU:HA	1.69	0.44
1:A:1476:HIS:HB2	1:A:1511:ALA:HB2	2.00	0.44
1:A:1583:MSE:HE1	1:A:1640:GLU:CD	2.37	0.44
1:A:1752:LEU:HD23	1:A:1752:LEU:HA	1.74	0.44
1:A:2277:LEU:O	1:A:2280:VAL:HB	2.17	0.44
1:A:2310:VAL:O	1:A:2315:VAL:HG21	2.18	0.44
1:A:2320:ALA:HB2	1:A:2367:VAL:HA	1.99	0.44
1:A:3501:HIS:O	1:A:3505:LEU:HD13	2.18	0.44
1:A:3578:LEU:HD22	1:A:3683:CYS:SG	2.57	0.44
1:A:3739:ILE:CD1	1:A:3749:PRO:HB3	2.48	0.44
1:B:307:GLU:O	1:B:308:LEU:HD13	2.17	0.44
1:B:487:LEU:HD23	1:B:530:LEU:HD12	1.99	0.44
1:B:527:TYR:HH	1:B:619:ASP:N	2.12	0.44
1:B:654:ILE:HG21	1:B:726:LEU:HB3	1.99	0.44
1:B:734:LEU:HA	1:B:734:LEU:HD23	1.52	0.44
1:B:1005:ASP:HB2	1:B:1006:THR:H	1.51	0.44
1:B:1119:LYS:HZ3	1:B:1256:TRP:HE1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1342:MSE:HG2	1:B:1402:LEU:HD23	1.99	0.44
1:B:1651:LYS:HD2	1:B:1684:LEU:HD21	2.00	0.44
1:B:2416:LYS:HE2	1:B:2439:ILE:HG12	1.99	0.44
1:B:3156:PRO:HB2	1:B:3197:LEU:HD12	1.98	0.44
1:B:3477:GLU:O	1:B:3481:SER:HB2	2.17	0.44
1:B:3972:LEU:C	1:B:3974:MSE:HG2	2.38	0.44
1:B:4056:PRO:O	1:B:4058:VAL:N	2.51	0.44
1:A:334:HIS:ND1	1:A:338:LEU:HD21	2.31	0.44
1:A:352:VAL:HG23	1:A:357:LYS:N	2.23	0.44
1:A:368:LEU:O	1:A:420:VAL:HG23	2.17	0.44
1:A:487:LEU:HG	1:A:530:LEU:HD13	2.00	0.44
1:A:658:THR:N	1:A:733:LEU:HD13	2.33	0.44
1:A:939:MSE:SE	1:A:2783:ILE:HG23	2.67	0.44
1:A:1147:LYS:CG	1:A:1180:GLN:HG2	2.47	0.44
1:A:1583:MSE:SE	1:A:1643:MSE:HE3	2.67	0.44
1:A:1802:TYR:O	1:A:1805:PHE:HB2	2.17	0.44
1:A:1908:GLY:CA	1:A:1952:ILE:HG13	2.47	0.44
1:A:2506:LEU:H	1:A:2506:LEU:HG	1.56	0.44
1:A:3443:PRO:C	1:A:3445:LEU:H	2.20	0.44
1:A:3583:LEU:CD1	1:A:3733:ARG:HB3	2.43	0.44
1:A:3717:VAL:HG22	1:A:3718:ARG:H	1.83	0.44
1:A:3903:HIS:ND1	1:A:3934:THR:OG1	2.51	0.44
1:A:3966:GLN:HG2	1:A:4128:MSE:C	2.38	0.44
1:B:65:LEU:O	1:B:69:VAL:CB	2.64	0.44
1:B:481:THR:O	1:B:485:GLN:HG2	2.17	0.44
1:B:669:LEU:C	1:B:671:SER:N	2.70	0.44
1:B:771:ASN:O	1:B:773:LEU:N	2.51	0.44
1:B:797:ASP:OD2	1:B:869:ASN:HB2	2.18	0.44
1:B:1101:PHE:HA	1:B:1104:LEU:HD12	1.98	0.44
1:B:1272:GLY:C	1:B:1274:ARG:H	2.21	0.44
1:B:1373:VAL:HG13	1:B:1374:GLN:HG2	2.00	0.44
1:B:1692:ALA:HA	1:B:1695:LEU:HD12	1.98	0.44
1:B:1949:ILE:HD12	1:B:1952:ILE:CG2	2.35	0.44
1:B:1958:GLU:HA	1:B:1961:PHE:HB3	2.00	0.44
1:B:2307:MSE:HE1	1:B:2367:VAL:HG11	1.98	0.44
1:B:2359:LYS:H	1:B:2359:LYS:HG3	1.62	0.44
1:B:2917:PRO:HB2	1:B:2918:PRO:HD3	1.99	0.44
1:A:153:PHE:HB2	1:A:157:TYR:HE2	1.82	0.44
1:A:189:MSE:HE3	1:A:193:ALA:HB2	1.99	0.44
1:A:224:LEU:HD22	1:A:248:ILE:HD11	2.00	0.44
1:A:432:THR:HB	1:A:433:PRO:CD	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:863:GLY:CA	1:A:866:ILE:HD11	2.47	0.44
1:A:1076:LEU:O	1:A:1078:ALA:N	2.51	0.44
1:A:1086:TYR:CE1	1:A:1089:PHE:HB2	2.53	0.44
1:A:1115:HIS:O	1:A:1118:GLU:C	2.56	0.44
1:A:1151:ARG:O	1:A:1154:PRO:HD2	2.17	0.44
1:A:2145:PHE:CE1	1:A:2188:GLU:HB3	2.53	0.44
1:A:2379:MSE:HE1	1:A:2404:ARG:HD3	1.99	0.44
1:A:3125:ARG:HH21	1:A:3128:LYS:HD2	1.82	0.44
1:A:3835:PRO:HA	1:A:3871:PHE:CE1	2.43	0.44
1:B:63:PHE:O	1:B:67:VAL:HG23	2.18	0.44
1:B:602:MSE:SE	1:B:726:LEU:CD1	3.14	0.44
1:B:729:CYS:O	1:B:733:LEU:HG	2.17	0.44
1:B:954:GLY:O	1:B:958:MSE:HB3	2.17	0.44
1:B:971:ARG:CG	1:B:972:LEU:N	2.71	0.44
1:B:1025:LEU:CD1	1:B:1028:PHE:HD2	2.30	0.44
1:B:1108:MSE:HB2	1:B:1132:ASP:OD1	2.17	0.44
1:B:2058:ASP:HB3	1:B:2059:PRO:HD3	1.98	0.44
1:B:2205:VAL:HB	1:B:2206:PRO:HD3	1.99	0.44
1:B:2539:LEU:O	1:B:2542:LEU:HG	2.18	0.44
1:A:249:PHE:HD1	1:A:265:TYR:CE1	2.36	0.44
1:A:268:PRO:O	1:A:271:GLY:N	2.51	0.44
1:A:430:VAL:HG11	1:A:1682:THR:HG21	2.00	0.44
1:A:530:LEU:H	1:A:530:LEU:HG	1.44	0.44
1:A:1340:ARG:O	1:A:1343:GLU:HB3	2.18	0.44
1:A:1433:ALA:O	1:A:1437:TYR:CG	2.71	0.44
1:A:1455:CYS:O	1:A:1458:LEU:N	2.50	0.44
1:A:1504:ASP:HA	1:A:1507:CYS:SG	2.57	0.44
1:A:2147:ALA:CB	1:A:2151:ILE:HD12	2.47	0.44
1:A:2164:TRP:CE3	1:A:2189:ILE:HD12	2.52	0.44
1:A:2167:PRO:C	1:A:2171:LEU:HB2	2.37	0.44
1:A:2253:TYR:CE1	1:A:2280:VAL:HG22	2.53	0.44
1:A:2320:ALA:HA	1:A:2367:VAL:HG23	1.99	0.44
1:A:3045:ILE:HG21	1:A:3064:PHE:CZ	2.52	0.44
1:A:3073:LEU:H	1:A:3073:LEU:HG	1.63	0.44
1:A:3155:VAL:HG11	1:A:3159:ARG:CZ	2.47	0.44
1:A:3168:TYR:HB3	1:A:3169:PRO:HD3	2.00	0.44
1:A:3283:LEU:O	1:A:3283:LEU:HD22	2.17	0.44
1:A:3305:SER:HA	1:A:3308:ASP:CB	2.45	0.44
1:A:3345:PRO:HB2	1:A:3346:ALA:H	1.58	0.44
1:A:3534:ILE:HG13	1:A:3569:GLN:OE1	2.17	0.44
1:B:180:LEU:HD23	1:B:183:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:612:LEU:O	1:B:615:ALA:HB3	2.18	0.44
1:B:625:ASN:HA	1:B:666:PHE:CE1	2.53	0.44
1:B:886:TRP:HH2	1:B:958:MSE:HB2	1.82	0.44
1:B:894:PHE:O	1:B:940:PHE:CZ	2.71	0.44
1:B:901:MSE:HE1	1:B:2535:THR:CG2	2.47	0.44
1:B:1485:SER:HA	1:B:1488:TYR:CD2	2.52	0.44
1:B:1568:ASN:OD1	1:B:1568:ASN:N	2.51	0.44
1:B:1906:THR:O	1:B:1910:GLU:HB2	2.18	0.44
1:B:2083:LEU:HD22	1:B:2184:TYR:HD2	1.82	0.44
1:B:2536:LEU:HA	1:B:2539:LEU:HB2	1.99	0.44
1:B:2817:LEU:HA	1:B:2820:MSE:HE2	1.99	0.44
1:B:2936:TYR:HD2	1:B:3979:LEU:CD2	2.28	0.44
1:B:3103:ILE:HD11	1:B:3138:ILE:HG21	2.00	0.44
1:B:3243:ILE:HG22	1:B:3278:GLN:HE21	1.83	0.44
1:B:3631:LYS:HG3	1:B:3685:PRO:HG2	1.99	0.44
1:B:3720:ALA:HB3	1:B:3741:ARG:O	2.17	0.44
1:B:3771:MSE:O	1:B:3774:ILE:HB	2.17	0.44
1:B:3984:MSE:SE	1:B:4108:MSE:HE2	2.68	0.44
1:B:4013:TRP:CE3	1:B:4014:LYS:HB2	2.53	0.44
1:B:4074:PHE:O	1:B:4077:TYR:HB3	2.17	0.44
1:A:82:ARG:HD2	1:A:114:VAL:CG1	2.48	0.44
1:A:321:LYS:C	1:A:325:ASN:HD22	2.20	0.44
1:A:452:LYS:O	1:A:455:LEU:HG	2.17	0.44
1:A:760:LEU:CD2	1:A:803:SER:HB3	2.47	0.44
1:A:948:MSE:N	1:A:949:PRO:HD3	2.33	0.44
1:A:1072:ALA:HB1	1:A:1076:LEU:HG	2.00	0.44
1:A:1076:LEU:HA	1:A:1076:LEU:HD23	1.65	0.44
1:A:1387:GLY:HA2	1:A:1392:MSE:HG3	1.99	0.44
1:A:1582:LEU:HA	1:A:1582:LEU:HD23	1.77	0.44
1:A:1722:PHE:HE2	1:A:1754:GLN:HA	1.81	0.44
1:A:1946:ASN:O	1:A:1949:ILE:N	2.31	0.44
1:A:2028:LEU:HB2	1:A:2030:TYR:HE2	1.82	0.44
1:A:2068:ARG:O	1:A:2070:GLU:N	2.50	0.44
1:A:2453:GLU:HA	1:A:2456:ASN:ND2	2.33	0.44
1:A:2936:TYR:CD2	1:A:3979:LEU:HD11	2.52	0.44
1:A:3247:ARG:HB2	1:A:3278:GLN:NE2	2.32	0.44
1:B:78:PHE:O	1:B:81:CYS:N	2.51	0.44
1:B:175:TYR:HB3	1:B:226:GLY:HA3	1.98	0.44
1:B:197:PHE:O	1:B:201:LEU:HG	2.16	0.44
1:B:320:LEU:O	1:B:323:VAL:HB	2.17	0.44
1:B:563:LEU:O	1:B:566:ASP:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:SER:HB2	1:B:605:THR:H	1.83	0.44
1:B:638:GLN:NE2	1:B:667:TYR:HB3	2.32	0.44
1:B:653:LEU:HA	1:B:653:LEU:HD23	1.50	0.44
1:B:727:ALA:O	1:B:731:THR:HG23	2.18	0.44
1:B:966:PHE:CE1	1:B:969:LEU:HD13	2.53	0.44
1:B:1087:ARG:NE	1:B:1134:LEU:HD22	2.33	0.44
1:B:1424:THR:O	1:B:1426:GLN:N	2.51	0.44
1:B:1913:LYS:HB2	1:B:1916:ILE:HB	2.00	0.44
1:B:2177:ASN:HB2	1:B:2182:ILE:HG23	1.99	0.44
1:B:2211:LEU:H	1:B:2211:LEU:HG	1.49	0.44
1:B:2224:PHE:CE2	1:B:2259:LYS:HD3	2.53	0.44
1:B:2318:ALA:O	1:B:2322:VAL:HB	2.18	0.44
1:B:2505:VAL:O	1:B:2508:GLN:N	2.50	0.44
1:B:3413:TYR:CD1	1:B:3449:LYS:HB3	2.53	0.44
1:B:3699:LEU:HD12	1:B:3699:LEU:HA	1.83	0.44
1:A:82:ARG:HH21	1:A:83:GLU:HG3	1.83	0.44
1:A:271:GLY:O	1:A:274:LEU:HD12	2.18	0.44
1:A:294:PHE:HZ	1:A:341:PHE:CZ	2.36	0.44
1:A:366:TYR:C	1:A:369:PHE:HB3	2.36	0.44
1:A:993:HIS:ND1	1:A:1038:LYS:HE2	2.33	0.44
1:A:1022:ASP:CG	1:A:1023:SER:H	2.21	0.44
1:A:1032:CYS:HB3	1:A:1036:PHE:CE2	2.52	0.44
1:A:2183:HIS:HE1	1:A:2237:ILE:HD13	1.82	0.44
1:A:2271:SER:HB2	1:A:2314:GLU:CG	2.47	0.44
1:A:2461:PHE:CE1	1:A:2462:VAL:HG23	2.52	0.44
1:A:3155:VAL:HG11	1:A:3159:ARG:NH1	2.32	0.44
1:A:3186:ARG:HA	1:A:3189:PHE:CD2	2.52	0.44
1:A:3266:SER:HB2	1:A:3271:ASP:OD1	2.17	0.44
1:A:3276:TRP:HB3	1:A:3280:TYR:CE2	2.52	0.44
1:A:3455:LYS:H	1:A:3455:LYS:HG3	1.62	0.44
1:A:3857:LEU:HG	1:A:3859:TYR:CD2	2.53	0.44
1:B:848:LEU:HA	1:B:848:LEU:HD12	1.78	0.44
1:B:928:VAL:HG23	1:B:929:ALA:N	2.33	0.44
1:B:1334:LYS:HA	1:B:1334:LYS:HD3	1.45	0.44
1:B:1369:MSE:SE	1:B:1418:HIS:ND1	3.01	0.44
1:B:1471:GLN:N	1:B:1471:GLN:OE1	2.51	0.44
1:B:1684:LEU:HD23	1:B:1684:LEU:HA	1.71	0.44
1:B:1761:LEU:HD13	1:B:1860:GLU:OE1	2.18	0.44
1:B:1999:GLU:HB3	1:B:2051:SER:HB3	2.00	0.44
1:B:2093:CYS:CA	1:B:2096:PRO:HD2	2.48	0.44
1:B:2164:TRP:C	1:B:2167:PRO:HD2	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2213:ASN:CG	1:B:2250:SER:HB2	2.38	0.44
1:B:2232:ARG:O	1:B:2234:ASN:N	2.51	0.44
1:B:2854:PHE:HZ	1:B:2881:LEU:HB2	1.81	0.44
1:B:2886:GLN:HG3	1:B:2887:PRO:HD3	1.99	0.44
1:B:2916:LEU:HB3	1:B:2917:PRO:HD3	2.00	0.44
1:B:3475:TYR:HB2	1:B:3479:THR:H	1.83	0.44
1:B:3636:PHE:C	1:B:3638:LYS:N	2.71	0.44
1:B:3819:THR:HG1	1:B:3889:ARG:NH1	2.10	0.44
1:B:3974:MSE:HB3	1:B:3976:GLU:CB	2.48	0.44
1:B:3975:LYS:HB2	1:B:3975:LYS:HE3	1.81	0.44
1:A:446:PHE:N	1:A:447:PRO:CD	2.81	0.44
1:A:447:PRO:HD2	1:A:448:GLN:H	1.82	0.44
1:A:1014:LEU:HD23	1:A:1028:PHE:HE2	1.83	0.44
1:A:1733:THR:HG23	1:A:1881:TYR:CE2	2.53	0.44
1:A:2004:TYR:CD1	1:A:2054:TYR:HB3	2.52	0.44
1:A:2021:GLY:N	1:A:2022:PRO:HD2	2.32	0.44
1:A:3720:ALA:HB3	1:A:3741:ARG:O	2.18	0.44
1:A:3960:PRO:HG2	1:A:3961:PHE:CE2	2.52	0.44
1:B:12:LEU:HD21	1:B:41:GLU:HB2	2.00	0.44
1:B:13:LEU:HD22	1:B:61:ARG:HD2	2.00	0.44
1:B:271:GLY:O	1:B:274:LEU:HD12	2.18	0.44
1:B:290:TYR:O	1:B:294:PHE:HB3	2.17	0.44
1:B:393:LYS:O	1:B:397:LEU:HB2	2.18	0.44
1:B:856:VAL:HG21	1:B:3110:PHE:CZ	2.53	0.44
1:B:927:LYS:HE3	1:B:928:VAL:CG1	2.47	0.44
1:B:1017:ILE:HD12	1:B:1025:LEU:HD23	2.00	0.44
1:B:1070:PRO:O	1:B:1073:PHE:CE2	2.71	0.44
1:B:1368:LEU:HA	1:B:1371:VAL:CG1	2.48	0.44
1:B:1937:ARG:O	1:B:1941:HIS:HB2	2.18	0.44
1:B:2028:LEU:HB2	1:B:2030:TYR:HE2	1.81	0.44
1:B:2164:TRP:CH2	1:B:2190:VAL:HG12	2.53	0.44
1:B:2316:TYR:CE2	1:B:2317:ALA:HB2	2.53	0.44
1:B:2473:MSE:O	1:B:2477:LEU:HG	2.17	0.44
1:B:2983:ASP:O	1:B:2986:PRO:HD2	2.18	0.44
1:B:3109:SER:O	1:B:3112:GLN:HB3	2.17	0.44
1:B:3842:TRP:HA	1:B:3845:LYS:HB2	2.00	0.44
1:A:12:LEU:HD21	1:A:41:GLU:HB2	2.00	0.43
1:A:266:ALA:HB2	1:A:308:LEU:HG	1.99	0.43
1:A:360:SER:O	1:A:363:ILE:HB	2.18	0.43
1:A:646:VAL:HG11	1:A:710:PHE:CG	2.54	0.43
1:A:764:PRO:HB2	1:A:848:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:992:ILE:CD1	1:A:1035:GLU:HB2	2.48	0.43
1:A:1017:ILE:HB	1:A:1025:LEU:HB2	2.00	0.43
1:A:1073:PHE:HD1	1:A:1074:LYS:N	2.06	0.43
1:A:1163:LEU:HA	1:A:1260:LEU:HD21	2.00	0.43
1:A:1471:GLN:O	1:A:1475:LEU:CB	2.51	0.43
1:A:1762:MSE:SE	1:A:1896:ILE:HG12	2.67	0.43
1:A:1804:MSE:HE1	1:A:1822:ARG:HH11	1.82	0.43
1:A:1945:TYR:O	1:A:1948:ALA:HB3	2.18	0.43
1:A:3092:LEU:HD22	1:A:3192:LYS:HE3	2.00	0.43
1:A:3259:LEU:HD21	1:A:3279:SER:HB2	1.99	0.43
1:A:3810:VAL:O	1:A:3929:MSE:HG3	2.18	0.43
1:A:3887:PHE:HZ	1:A:3904:PHE:CE2	2.36	0.43
1:A:3908:HIS:O	1:A:3911:ILE:HG12	2.17	0.43
1:A:3915:HIS:CD2	1:A:3920:ILE:HD12	2.53	0.43
1:A:3961:PHE:CZ	1:A:3963:LEU:HD13	2.53	0.43
1:B:13:LEU:HA	1:B:16:GLN:HG2	2.00	0.43
1:B:70:ARG:HG3	1:B:78:PHE:CB	2.48	0.43
1:B:217:LEU:HB3	1:B:264:ARG:HG3	2.00	0.43
1:B:280:SER:O	1:B:322:GLN:HG2	2.17	0.43
1:B:733:LEU:O	1:B:737:PRO:HG3	2.18	0.43
1:B:1015:ASP:HA	1:B:1018:VAL:CG2	2.47	0.43
1:B:1079:SER:O	1:B:1082:PHE:HB3	2.17	0.43
1:B:1153:LEU:HB3	1:B:1154:PRO:HD3	2.01	0.43
1:B:1218:SER:OG	1:B:1219:PHE:N	2.51	0.43
1:B:1876:ILE:O	1:B:1876:ILE:HG12	2.17	0.43
1:B:2554:PHE:O	1:B:2557:LEU:HB2	2.18	0.43
1:B:2923:TRP:CD1	1:B:2931:ARG:HD3	2.53	0.43
1:B:2979:GLN:H	1:B:2979:GLN:CD	2.22	0.43
1:B:3107:ILE:HG22	1:B:3111:MSE:HE2	1.98	0.43
1:B:3454:LEU:HD21	1:B:3461:ALA:HB2	1.99	0.43
1:B:3610:TYR:O	1:B:3613:MSE:HB3	2.18	0.43
1:B:3631:LYS:HB2	1:B:3685:PRO:HB2	2.00	0.43
1:B:3872:ARG:NH1	1:B:3965:ARG:HH12	2.16	0.43
1:A:681:LYS:HD2	1:A:746:ARG:NE	2.33	0.43
1:A:733:LEU:H	1:A:733:LEU:HG	1.61	0.43
1:A:739:ASN:OD1	1:A:776:TRP:HA	2.19	0.43
1:A:784:VAL:O	1:A:787:PRO:HD2	2.18	0.43
1:A:1067:ALA:HA	1:A:1079:SER:HB2	2.00	0.43
1:A:1073:PHE:CE1	1:A:3745:GLU:HA	2.53	0.43
1:A:1354:GLU:C	1:A:1356:TRP:H	2.21	0.43
1:A:1583:MSE:HE1	1:A:1640:GLU:OE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1733:THR:N	1:A:1734:PRO:HD3	2.33	0.43
1:A:1747:LEU:HD13	1:A:1880:MSE:HE1	2.00	0.43
1:A:1950:SER:O	1:A:2000:ARG:NH1	2.51	0.43
1:A:2373:PRO:HA	1:A:2378:PHE:CZ	2.53	0.43
1:A:2415:LEU:HD11	1:A:2419:ASP:OD2	2.17	0.43
1:A:2795:GLN:O	1:A:2799:GLN:HG2	2.18	0.43
1:A:2860:ASP:HB3	1:A:2868:LEU:HD22	2.00	0.43
1:A:2963:SER:O	1:A:2967:GLU:HG2	2.18	0.43
1:A:3547:THR:HB	1:A:3548:GLY:O	2.18	0.43
1:A:3921:GLY:C	1:A:3923:ARG:N	2.71	0.43
1:B:358:GLU:CG	1:B:359:LEU:N	2.81	0.43
1:B:451:PRO:O	1:B:454:GLN:HB3	2.18	0.43
1:B:572:VAL:HG13	1:B:573:LEU:N	2.33	0.43
1:B:1010:LEU:HA	1:B:1013:ILE:HG12	1.99	0.43
1:B:1039:TRP:CG	1:B:1055:ASN:HB2	2.53	0.43
1:B:1087:ARG:HD3	1:B:1134:LEU:CB	2.38	0.43
1:B:1945:TYR:O	1:B:1946:ASN:C	2.56	0.43
1:B:1945:TYR:O	1:B:1948:ALA:N	2.50	0.43
1:B:2110:PRO:HB2	1:B:2111:PRO:HD3	1.99	0.43
1:B:2286:PRO:HB2	1:B:2289:ASP:CA	2.40	0.43
1:B:2464:HIS:H	1:B:2465:PRO:CD	2.31	0.43
1:B:2927:ALA:HB2	1:B:2930:TYR:CD2	2.52	0.43
1:B:3110:PHE:CD1	1:B:3111:MSE:N	2.86	0.43
1:B:3847:SER:HA	1:B:3857:LEU:HD22	2.00	0.43
1:B:3880:ALA:O	1:B:3884:LYS:HG3	2.18	0.43
1:B:4113:ASP:O	1:B:4116:ILE:N	2.47	0.43
1:A:342:MSE:O	1:A:345:PHE:HB2	2.18	0.43
1:A:348:ILE:HG23	1:A:357:LYS:HE3	1.99	0.43
1:A:929:ALA:O	1:A:933:LEU:HB2	2.18	0.43
1:A:939:MSE:O	1:A:942:LEU:HB3	2.19	0.43
1:A:966:PHE:CE1	1:A:988:VAL:HG12	2.54	0.43
1:A:1365:ASN:O	1:A:1369:MSE:HG2	2.17	0.43
1:A:1577:LEU:HD12	1:A:1578:ALA:HB2	2.01	0.43
1:A:1996:VAL:HG21	1:A:2047:THR:CB	2.48	0.43
1:A:2358:ASP:O	1:A:2361:ILE:HG22	2.18	0.43
1:A:3033:GLU:HB3	1:A:3038:GLU:OE1	2.19	0.43
1:A:3829:LEU:HD12	1:A:3829:LEU:HA	1.70	0.43
1:B:275:PHE:O	1:B:277:LEU:N	2.52	0.43
1:B:352:VAL:HG23	1:B:357:LYS:HG2	2.01	0.43
1:B:554:ASN:O	1:B:558:GLU:OE2	2.37	0.43
1:B:620:PHE:HE2	1:B:641:PHE:CE2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:717:LYS:HA	1:B:717:LYS:HD3	1.84	0.43
1:B:785:MSE:HB3	1:B:785:MSE:HE2	1.68	0.43
1:B:1107:TYR:CD2	1:B:1131:ILE:HD12	2.53	0.43
1:B:1147:LYS:O	1:B:1151:ARG:NE	2.52	0.43
1:B:1356:TRP:HA	1:B:1356:TRP:CE3	2.52	0.43
1:B:1550:VAL:HG23	1:B:1551:ILE:H	1.83	0.43
1:B:1722:PHE:HB3	1:B:1723:PRO:HD3	1.99	0.43
1:B:2126:MSE:HE2	1:B:2156:VAL:CG2	2.48	0.43
1:B:2171:LEU:HG	1:B:2177:ASN:ND2	2.30	0.43
1:B:2323:LEU:CD2	1:B:2345:VAL:HG21	2.48	0.43
1:B:2408:MSE:HA	1:B:2408:MSE:CE	2.41	0.43
1:B:2788:SER:HA	1:B:2791:ILE:HG13	2.01	0.43
1:B:2923:TRP:CD1	1:B:2926:LEU:HD21	2.53	0.43
1:B:2937:ASP:OD1	1:B:3976:GLU:HA	2.18	0.43
1:B:3008:TRP:H	1:B:3050:LYS:HG2	1.83	0.43
1:A:732:PHE:HB2	1:A:733:LEU:CD2	2.48	0.43
1:A:1087:ARG:HD3	1:A:1134:LEU:CD2	2.45	0.43
1:A:1652:ILE:CD1	1:A:1713:VAL:HG13	2.48	0.43
1:A:2915:ARG:O	1:A:2938:VAL:HG21	2.19	0.43
1:A:3008:TRP:N	1:A:3050:LYS:HG2	2.33	0.43
1:A:3583:LEU:HD23	1:A:3583:LEU:HA	1.85	0.43
1:B:74:ASN:HB3	1:B:75:SER:H	1.45	0.43
1:B:139:ARG:HG3	1:B:173:LYS:HZ2	1.84	0.43
1:B:389:ILE:HG22	1:B:390:GLN:N	2.33	0.43
1:B:485:GLN:O	1:B:488:ILE:HG12	2.19	0.43
1:B:575:ILE:HD12	1:B:604:PRO:O	2.18	0.43
1:B:910:PHE:CE2	1:B:941:MSE:SE	3.22	0.43
1:B:981:ARG:HA	1:B:984:TYR:CD2	2.52	0.43
1:B:1633:TRP:NE1	1:B:1697:PRO:HG2	2.33	0.43
1:B:1856:THR:O	1:B:1860:GLU:HB2	2.18	0.43
1:B:2356:MSE:SE	1:B:2360:PHE:CZ	3.21	0.43
1:B:2926:LEU:HD12	1:B:3123:GLN:CD	2.38	0.43
1:B:3271:ASP:OD2	1:B:3272:TRP:CD1	2.72	0.43
1:B:3480:LEU:HD22	1:B:3516:HIS:HB3	1.99	0.43
1:B:3498:TRP:NE1	1:B:3502:MSE:SE	2.99	0.43
1:B:3682:GLU:C	1:B:3685:PRO:HD2	2.38	0.43
1:B:3904:PHE:HE1	1:B:3967:PHE:HE1	1.66	0.43
1:A:226:GLY:O	1:A:230:LEU:HD23	2.19	0.43
1:A:241:ASP:HB2	1:A:282:PHE:CE2	2.53	0.43
1:A:448:GLN:O	1:A:449:TYR:CD1	2.71	0.43
1:A:572:VAL:HG13	1:A:573:LEU:N	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:963:LYS:HB3	1:A:1009:LEU:CD1	2.48	0.43
1:A:1014:LEU:HB2	1:A:1078:ALA:HA	2.01	0.43
1:A:1056:THR:OG1	1:A:1057:LYS:N	2.51	0.43
1:A:1087:ARG:NE	1:A:1134:LEU:HD22	2.32	0.43
1:A:1645:VAL:HG12	1:A:1646:LEU:HD23	2.00	0.43
1:A:1942:CYS:HB2	1:A:1990:PHE:CD1	2.54	0.43
1:A:2359:LYS:O	1:A:2362:VAL:HG22	2.18	0.43
1:A:2365:ASN:HB2	1:A:2400:VAL:HG13	1.99	0.43
1:A:2461:PHE:HE1	1:A:2469:CYS:SG	2.42	0.43
1:A:2463:SER:O	1:A:2464:HIS:ND1	2.51	0.43
1:A:2794:LEU:HA	1:A:2797:VAL:CG2	2.46	0.43
1:A:3052:LEU:HD23	1:A:3188:PHE:CZ	2.54	0.43
1:A:3253:SER:HA	1:A:3256:MSE:HB2	2.00	0.43
1:A:3683:CYS:SG	1:A:3736:LYS:NZ	2.90	0.43
1:A:3759:ARG:C	1:A:3761:ASP:H	2.21	0.43
1:B:273:ARG:HA	1:B:318:SER:OG	2.19	0.43
1:B:657:SER:C	1:B:733:LEU:HD13	2.38	0.43
1:B:714:VAL:O	1:B:717:LYS:N	2.52	0.43
1:B:1401:ASN:O	1:B:1404:LYS:HB3	2.19	0.43
1:B:1916:ILE:O	1:B:1920:TYR:CD1	2.71	0.43
1:B:2040:MSE:HB3	1:B:2040:MSE:HE2	1.96	0.43
1:B:2066:PHE:HB3	1:B:2067:ARG:HG2	2.00	0.43
1:B:2311:ARG:HG3	1:B:2363:CYS:CB	2.43	0.43
1:B:2908:LYS:NZ	1:B:2986:PRO:CG	2.81	0.43
1:B:3443:PRO:C	1:B:3445:LEU:H	2.21	0.43
1:B:3656:LEU:O	1:B:3659:PHE:HB2	2.19	0.43
1:B:3908:HIS:CD2	1:B:3967:PHE:CZ	3.06	0.43
1:A:185:HIS:O	1:A:186:PRO:C	2.56	0.43
1:A:224:LEU:HD13	1:A:248:ILE:HD13	2.01	0.43
1:A:473:PRO:CA	1:A:476:ARG:HH22	2.18	0.43
1:A:680:ILE:HG12	1:A:701:TYR:HD1	1.79	0.43
1:A:1332:TYR:CZ	1:A:1386:ILE:HG22	2.54	0.43
1:A:1565:GLU:HG2	1:A:1566:THR:HG23	2.00	0.43
1:A:1687:HIS:HB3	1:A:1691:GLN:HE22	1.83	0.43
1:A:2012:ARG:HA	1:A:2012:ARG:HD3	1.69	0.43
1:A:2216:LEU:HD22	1:A:2249:LEU:HD21	2.01	0.43
1:A:2227:LYS:HZ2	1:A:2232:ARG:C	2.21	0.43
1:A:2239:LYS:NZ	2:K:109:UNK:O	2.35	0.43
1:A:2473:MSE:O	1:A:2477:LEU:HG	2.17	0.43
1:A:2538:ARG:NH1	1:A:2566:THR:H	2.08	0.43
1:A:2804:ILE:O	1:A:2806:LYS:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3506:LEU:HD11	1:A:3555:VAL:HG13	2.00	0.43
1:A:3835:PRO:HB2	1:A:3836:PRO:HD3	2.00	0.43
1:A:3842:TRP:CZ3	1:A:3843:LEU:HD23	2.53	0.43
1:B:112:THR:O	1:B:116:THR:OG1	2.25	0.43
1:B:334:HIS:ND1	1:B:338:LEU:HD21	2.33	0.43
1:B:390:GLN:NE2	1:B:1724:MSE:HB2	2.33	0.43
1:B:553:VAL:HB	1:B:637:LYS:NZ	2.31	0.43
1:B:669:LEU:HA	1:B:669:LEU:HD23	1.74	0.43
1:B:913:ARG:CB	1:B:934:LEU:HD12	2.48	0.43
1:B:1165:LEU:O	1:B:1168:LEU:N	2.50	0.43
1:B:1174:ALA:O	1:B:1178:ARG:HB2	2.18	0.43
1:B:1256:TRP:O	1:B:1259:LEU:N	2.51	0.43
1:B:1266:CYS:O	1:B:1270:PHE:CD2	2.72	0.43
1:B:1354:GLU:C	1:B:1356:TRP:H	2.22	0.43
1:B:1885:PRO:O	1:B:1886:LYS:C	2.57	0.43
1:B:1920:TYR:O	1:B:1923:PHE:HB3	2.18	0.43
1:B:2083:LEU:HD13	1:B:2184:TYR:HE2	1.83	0.43
1:B:2482:ASP:CG	1:B:2485:ARG:HH21	2.21	0.43
1:B:2517:LEU:HA	1:B:2520:ILE:HG22	2.00	0.43
1:B:2557:LEU:HB3	1:B:2561:PHE:CZ	2.53	0.43
1:B:2936:TYR:CD2	1:B:3979:LEU:HD11	2.54	0.43
1:B:3564:GLN:C	1:B:3566:GLY:H	2.22	0.43
1:B:3572:ILE:CA	1:B:3575:LEU:HB3	2.49	0.43
1:B:3789:ARG:HB3	1:B:3938:ILE:CG2	2.49	0.43
1:B:3944:HIS:NE2	1:B:3948:SER:O	2.51	0.43
1:B:4075:ARG:O	1:B:4078:VAL:HG22	2.19	0.43
2:S:212:UNK:O	2:S:215:UNK:N	2.52	0.43
1:A:257:ARG:N	1:A:258:PRO:CD	2.81	0.43
1:A:474:VAL:HG21	1:A:1564:SER:OG	2.19	0.43
1:A:562:HIS:O	1:A:562:HIS:ND1	2.50	0.43
1:A:742:GLU:HB3	1:A:783:HIS:CG	2.54	0.43
1:A:1112:ALA:HA	1:A:1115:HIS:CE1	2.54	0.43
1:A:1153:LEU:HB3	1:A:1154:PRO:HD3	2.00	0.43
1:A:1253:THR:HB	1:A:1254:LEU:HG	2.00	0.43
1:A:1330:TYR:CE1	1:A:1334:LYS:HE3	2.53	0.43
1:A:1433:ALA:HB1	1:A:1437:TYR:CZ	2.53	0.43
1:A:1808:ASP:CB	1:A:1814:PHE:HB3	2.30	0.43
1:A:2009:LYS:O	1:A:2010:GLU:HG3	2.18	0.43
1:A:2192:THR:HA	1:A:2195:SER:OG	2.19	0.43
1:A:2876:VAL:HG22	1:A:3035:PHE:CZ	2.53	0.43
1:A:3272:TRP:CE3	1:A:3307:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3283:LEU:HG	1:A:3300:VAL:CG2	2.48	0.43
1:A:3344:GLU:HB2	1:A:3348:LEU:CD1	2.48	0.43
1:A:3359:ILE:CG2	1:A:3391:ALA:HB3	2.48	0.43
1:A:3427:GLU:OE1	1:A:3435:ASP:HB3	2.19	0.43
1:A:3445:LEU:O	1:A:3449:LYS:NZ	2.42	0.43
1:B:744:ASP:C	1:B:746:ARG:N	2.70	0.43
1:B:767:GLU:HG3	1:B:851:ILE:HD11	2.01	0.43
1:B:892:LEU:HD23	1:B:907:LEU:HD13	2.01	0.43
1:B:963:LYS:CG	1:B:1009:LEU:HD11	2.49	0.43
1:B:1091:GLU:CG	1:B:1137:ILE:HD13	2.49	0.43
1:B:1214:GLU:O	1:B:1218:SER:OG	2.23	0.43
1:B:1349:LEU:HA	1:B:1353:PRO:CD	2.45	0.43
1:B:1353:PRO:HA	1:B:1358:LEU:CB	2.48	0.43
1:B:1725:GLN:O	1:B:1725:GLN:HG2	2.18	0.43
1:B:1989:ASN:HB3	1:B:2040:MSE:HE2	2.01	0.43
1:B:1991:PRO:HA	1:B:1994:VAL:HG12	2.00	0.43
1:B:2071:GLN:HA	1:B:2074:PRO:HG2	2.01	0.43
1:B:2257:PHE:CD1	1:B:2299:TYR:HB3	2.54	0.43
1:B:2437:ASP:O	1:B:2440:TYR:HB3	2.18	0.43
1:B:2515:PRO:HG2	1:B:2518:GLN:HE22	1.84	0.43
1:B:2548:PRO:O	1:B:2550:ILE:HG13	2.19	0.43
1:B:2987:THR:OG1	1:B:2991:LYS:HB2	2.19	0.43
1:B:3179:TRP:HZ2	1:B:3258:LEU:HG	1.83	0.43
1:B:3287:ARG:NH1	1:B:3328:ILE:HA	2.33	0.43
1:B:3319:ASN:O	1:B:3323:PHE:CD2	2.71	0.43
1:B:3498:TRP:HE1	1:B:3502:MSE:CG	2.32	0.43
1:B:3499:ILE:HD13	1:B:3499:ILE:HA	1.76	0.43
1:B:3630:ARG:O	1:B:3634:GLN:N	2.50	0.43
1:B:3696:ARG:HB2	1:B:3699:LEU:CB	2.48	0.43
1:A:175:TYR:CZ	1:A:204:LEU:HD11	2.54	0.43
1:A:342:MSE:O	1:A:342:MSE:HG2	2.17	0.43
1:A:568:PHE:HZ	1:A:653:LEU:HG	1.84	0.43
1:A:595:ASP:CG	1:A:1026:ARG:HG3	2.39	0.43
1:A:798:GLY:O	1:A:801:LYS:HE2	2.19	0.43
1:A:901:MSE:HE1	1:A:2539:LEU:HD21	2.00	0.43
1:A:937:MSE:HA	1:A:940:PHE:CD1	2.53	0.43
1:A:984:TYR:O	1:A:988:VAL:HG13	2.19	0.43
1:A:1116:ALA:CB	1:A:1164:CYS:HB3	2.49	0.43
1:A:1508:LYS:NZ	1:A:1516:GLU:HG3	2.33	0.43
1:A:2312:TYR:O	1:A:2315:VAL:HG22	2.19	0.43
1:A:2837:LEU:HG	1:A:2837:LEU:H	1.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3252:PHE:HA	1:A:3282:ARG:CZ	2.48	0.43
1:A:3884:LYS:N	1:A:3970:LEU:HD12	2.34	0.43
1:A:3955:VAL:O	1:A:3955:VAL:HG13	2.18	0.43
1:A:4066:LEU:CD2	1:A:4075:ARG:HG3	2.45	0.43
1:B:14:ARG:O	1:B:18:THR:HG23	2.18	0.43
1:B:197:PHE:CE1	1:B:230:LEU:HD22	2.53	0.43
1:B:224:LEU:O	1:B:228:SER:OG	2.34	0.43
1:B:458:CYS:HA	1:B:461:ILE:HD12	2.01	0.43
1:B:766:ALA:HB1	1:B:768:VAL:HG23	2.00	0.43
1:B:948:MSE:N	1:B:949:PRO:HD3	2.34	0.43
1:B:993:HIS:CB	1:B:1038:LYS:HG2	2.37	0.43
1:B:1038:LYS:HD2	1:B:1038:LYS:HA	1.85	0.43
1:B:1871:MSE:CA	1:B:1874:TYR:HB2	2.45	0.43
1:B:2138:VAL:HA	1:B:2141:ASN:ND2	2.34	0.43
1:B:2276:LEU:O	1:B:2279:ILE:HB	2.18	0.43
1:B:2401:VAL:O	1:B:2405:VAL:HG13	2.19	0.43
1:B:2433:LYS:O	1:B:2436:LEU:N	2.44	0.43
1:B:2443:MSE:HB3	1:B:2480:ILE:CG1	2.43	0.43
1:B:2510:LEU:HG	1:B:2522:ARG:HE	1.84	0.43
1:B:2575:PRO:HG3	1:B:2789:SER:OG	2.18	0.43
1:B:2989:ALA:HA	1:B:2992:ASP:HB2	1.99	0.43
1:B:3329:LEU:HD23	1:B:3329:LEU:HA	1.80	0.43
1:B:3503:VAL:HG21	1:B:3535:ILE:C	2.39	0.43
1:B:3531:TYR:CD2	1:B:3707:GLY:HA3	2.53	0.43
1:B:3788:LEU:HD12	1:B:3788:LEU:HA	1.74	0.43
1:A:175:TYR:HA	1:A:178:LEU:HD12	2.00	0.43
1:A:514:VAL:CG1	1:A:610:ALA:HB1	2.49	0.43
1:A:745:VAL:HG11	1:A:776:TRP:CZ2	2.54	0.43
1:A:763:THR:N	1:A:764:PRO:HD3	2.34	0.43
1:A:905:ILE:O	1:A:906:PHE:HB2	2.18	0.43
1:A:981:ARG:CG	1:A:982:GLN:N	2.81	0.43
1:A:996:THR:O	1:A:1042:LYS:HG2	2.19	0.43
1:A:1883:ARG:HG3	1:A:1884:LEU:N	2.33	0.43
1:A:1949:ILE:CD1	1:A:1952:ILE:HG21	2.48	0.43
1:A:2379:MSE:SE	1:A:2404:ARG:HD3	2.69	0.43
1:A:2439:ILE:O	1:A:2441:LYS:N	2.52	0.43
1:A:3155:VAL:N	1:A:3156:PRO:CD	2.82	0.43
1:A:3314:SER:HB2	1:A:3315:TYR:O	2.19	0.43
1:A:3495:PHE:HA	1:A:3498:TRP:CZ2	2.54	0.43
1:A:3651:LEU:HA	1:A:3654:MSE:HE3	2.01	0.43
1:B:103:TYR:O	1:B:106:GLU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:ILE:H	1:B:126:PRO:HD2	1.84	0.43
1:B:130:LEU:HA	1:B:130:LEU:HD12	1.65	0.43
1:B:173:LYS:O	1:B:174:VAL:C	2.57	0.43
1:B:385:TYR:HA	1:B:388:LEU:HB3	2.00	0.43
1:B:892:LEU:HD11	1:B:958:MSE:CG	2.49	0.43
1:B:933:LEU:HD11	1:B:2795:GLN:OE1	2.19	0.43
1:B:1222:ASN:O	1:B:1225:GLU:HB2	2.18	0.43
1:B:2253:TYR:HA	1:B:2256:ILE:HB	2.01	0.43
1:B:2526:SER:O	1:B:2530:ARG:HB3	2.19	0.43
1:B:2841:ASN:HD22	1:B:2871:LEU:HD23	1.84	0.43
1:B:2943:PHE:CE2	1:B:2944:THR:HG23	2.54	0.43
1:B:3174:ASP:OD2	1:B:3783:GLN:HG3	2.19	0.43
1:B:3262:LEU:HD12	1:B:3266:SER:OG	2.18	0.43
1:B:3424:LEU:CD1	1:B:3439:LEU:HD11	2.49	0.43
1:B:3480:LEU:HB3	1:B:3516:HIS:HB2	2.01	0.43
1:B:3525:TYR:O	1:B:3529:ILE:HB	2.19	0.43
1:B:3984:MSE:O	1:B:3987:ALA:HB3	2.18	0.43
1:B:4020:MSE:HE3	1:B:4027:TRP:HE1	1.84	0.43
1:A:47:SER:O	1:A:51:LEU:HB2	2.19	0.43
1:A:70:ARG:CD	1:A:82:ARG:HD3	2.38	0.43
1:A:184:VAL:O	1:A:185:HIS:CG	2.72	0.43
1:A:435:LEU:O	1:A:439:VAL:HG23	2.19	0.43
1:A:634:LEU:HD22	1:A:667:TYR:CD1	2.53	0.43
1:A:939:MSE:HA	1:A:939:MSE:HE3	2.01	0.43
1:A:1133:HIS:ND1	1:A:1136:ARG:HD2	2.34	0.43
1:A:2399:GLU:HA	1:A:2402:LEU:HD23	2.01	0.43
1:A:3141:PHE:CE1	1:A:3193:ILE:HG13	2.49	0.43
1:A:3167:ARG:HG2	1:A:3186:ARG:NH2	2.33	0.43
1:A:3617:LEU:CD1	1:A:3644:PHE:HD2	2.30	0.43
1:A:3908:HIS:CD2	1:A:3912:CYS:SG	3.12	0.43
1:A:3917:ILE:O	1:A:4048:LYS:HE2	2.19	0.43
1:A:3951:GLN:NE2	1:A:4068:HIS:CE1	2.87	0.43
1:A:4074:PHE:O	1:A:4077:TYR:HB3	2.19	0.43
1:B:348:ILE:O	1:B:364:ARG:HD3	2.19	0.43
1:B:396:PHE:CE1	1:B:397:LEU:HG	2.54	0.43
1:B:408:TYR:O	1:B:411:PRO:HD2	2.19	0.43
1:B:560:LEU:HA	1:B:563:LEU:HD12	2.00	0.43
1:B:719:LYS:HE3	1:B:750:PRO:HB2	2.01	0.43
1:B:1017:ILE:HA	1:B:1021:VAL:O	2.18	0.43
1:B:1027:ASP:O	1:B:1031:ARG:HG2	2.19	0.43
1:B:1296:PHE:CE1	1:B:1362:ASP:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1296:PHE:CZ	1:B:1362:ASP:HB2	2.54	0.43
1:B:1449:ALA:O	1:B:1453:SER:OG	2.28	0.43
1:B:1874:TYR:CE1	1:B:1881:TYR:CG	3.06	0.43
1:B:2167:PRO:CB	1:B:2171:LEU:HD22	2.47	0.43
1:B:2461:PHE:HA	1:B:2464:HIS:ND1	2.34	0.43
1:B:2858:ILE:HG23	1:B:3894:PRO:HG3	2.00	0.43
1:B:2871:LEU:O	1:B:2873:PRO:HD3	2.19	0.43
1:B:2879:GLY:CA	1:B:2886:GLN:HG2	2.31	0.43
1:B:3020:ASP:OD2	1:B:3024:PRO:HA	2.18	0.43
1:B:3179:TRP:O	1:B:3179:TRP:CG	2.71	0.43
1:B:3266:SER:HB3	1:B:3271:ASP:HB2	2.01	0.43
1:B:3575:LEU:HB2	1:B:3686:TRP:CZ3	2.54	0.43
1:B:3830:SER:O	1:B:3833:ARG:N	2.50	0.43
1:B:3989:ARG:HE	1:B:4100:GLU:HB3	1.83	0.43
1:B:4003:ASP:O	1:B:4006:VAL:HG22	2.19	0.43
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.51	0.42
1:A:446:PHE:CD1	1:A:446:PHE:N	2.75	0.42
1:A:892:LEU:HG	1:A:958:MSE:SE	2.69	0.42
1:A:971:ARG:HD2	1:A:1024:THR:OG1	2.18	0.42
1:A:1073:PHE:HD1	1:A:1074:LYS:CG	2.31	0.42
1:A:1305:ASP:OD1	1:A:1334:LYS:HD2	2.18	0.42
1:A:1913:LYS:O	1:A:1915:LEU:N	2.52	0.42
1:A:2299:TYR:O	1:A:2302:ALA:HB3	2.19	0.42
1:A:2645:UNK:HA	1:A:2649:UNK:O	2.20	0.42
1:A:3049:LEU:HA	1:A:3188:PHE:HZ	1.82	0.42
1:A:3076:ALA:HB1	1:A:3080:LEU:CD1	2.48	0.42
1:A:3144:PHE:HZ	1:A:3193:ILE:HD11	1.84	0.42
1:A:3619:ASP:O	1:A:3625:LEU:HB2	2.19	0.42
1:A:3675:LYS:N	1:A:3676:PRO:HD2	2.33	0.42
1:A:3690:PHE:CD1	1:A:3692:VAL:HG23	2.54	0.42
1:A:3906:SER:O	1:A:3910:LEU:HD13	2.18	0.42
1:A:3955:VAL:CG1	1:A:4027:TRP:HE1	2.25	0.42
1:A:4113:ASP:HB3	1:A:4116:ILE:HG13	2.00	0.42
1:B:146:GLU:HG3	1:B:149:ILE:HD12	2.00	0.42
1:B:381:VAL:HB	1:B:384:MSE:SE	2.68	0.42
1:B:432:THR:HB	1:B:433:PRO:CD	2.48	0.42
1:B:856:VAL:HG11	1:B:3110:PHE:CZ	2.54	0.42
1:B:963:LYS:O	1:B:967:PRO:HD3	2.20	0.42
1:B:993:HIS:ND1	1:B:993:HIS:C	2.73	0.42
1:B:1033:ILE:HD11	1:B:1089:PHE:HE2	1.84	0.42
1:B:1455:CYS:HA	1:B:1458:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1574:ASN:CG	1:B:1582:LEU:HD21	2.40	0.42
1:B:1718:ILE:CG2	1:B:1750:LEU:HD11	2.40	0.42
1:B:1812:LEU:HD13	1:B:1814:PHE:HD2	1.84	0.42
1:B:1981:LEU:HA	1:B:1984:LEU:CD2	2.48	0.42
1:B:2452:ARG:O	1:B:2455:LEU:HB2	2.18	0.42
1:B:2804:ILE:O	1:B:2806:LYS:N	2.50	0.42
1:B:3104:GLN:O	1:B:3107:ILE:HB	2.19	0.42
1:B:3252:PHE:CE2	1:B:3289:ARG:NH2	2.87	0.42
1:B:3390:GLN:O	1:B:3394:GLU:HB2	2.18	0.42
1:B:3483:MSE:O	1:B:3486:GLU:HG2	2.19	0.42
1:B:3525:TYR:HA	1:B:3529:ILE:CG2	2.49	0.42
1:B:3985:VAL:O	1:B:3988:LEU:N	2.51	0.42
1:B:4077:TYR:CG	1:B:4119:ARG:NH2	2.87	0.42
1:B:4093:GLU:O	1:B:4095:GLU:HG2	2.19	0.42
1:A:262:LEU:H	1:A:262:LEU:HG	1.62	0.42
1:A:293:LEU:HA	1:A:296:VAL:HG12	2.00	0.42
1:A:349:ILE:HD12	1:A:368:LEU:HD12	1.99	0.42
1:A:361:ILE:HG21	1:A:1858:LEU:HD23	2.01	0.42
1:A:1812:LEU:O	1:A:1815:THR:HG23	2.19	0.42
1:A:1882:SER:O	1:A:1885:PRO:HD2	2.19	0.42
1:A:2070:GLU:CG	1:A:2072:ARG:HG3	2.33	0.42
1:A:2251:ILE:HG23	1:A:2288:TYR:HD2	1.84	0.42
1:A:2358:ASP:HB3	1:A:2389:PHE:CE1	2.54	0.42
1:A:2552:VAL:HG22	1:A:2553:HIS:ND1	2.35	0.42
1:A:2943:PHE:O	1:A:2945:SER:N	2.45	0.42
1:A:3174:ASP:HA	1:A:3249:GLN:NE2	2.34	0.42
1:A:3397:GLN:HE21	1:A:3413:TYR:HD1	1.63	0.42
1:A:3435:ASP:O	1:A:3439:LEU:HB2	2.18	0.42
1:A:3583:LEU:HD22	1:A:3587:ASP:OD2	2.19	0.42
1:A:3806:LEU:HG	1:A:3807:GLU:N	2.33	0.42
1:B:44:LEU:H	1:B:44:LEU:HG	1.71	0.42
1:B:138:PHE:HD2	1:B:173:LYS:CE	2.25	0.42
1:B:346:TYR:HA	1:B:349:ILE:HD12	2.01	0.42
1:B:367:GLY:C	1:B:369:PHE:N	2.69	0.42
1:B:487:LEU:CD2	1:B:530:LEU:HB2	2.49	0.42
1:B:560:LEU:HB2	1:B:616:LYS:HG2	2.01	0.42
1:B:775:GLU:O	1:B:779:TYR:CD2	2.70	0.42
1:B:970:LEU:CD2	1:B:1031:ARG:NH2	2.78	0.42
1:B:1157:PHE:HB3	1:B:1169:VAL:HG22	2.02	0.42
1:B:1263:ALA:HB1	1:B:1267:TYR:HE1	1.84	0.42
1:B:1389:VAL:O	1:B:1389:VAL:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1583:MSE:HE2	1:B:1639:LEU:C	2.40	0.42
1:B:1727:ARG:O	1:B:1730:PRO:HD2	2.19	0.42
1:B:1992:VAL:HG11	1:B:2044:ASP:OD1	2.19	0.42
1:B:2125:TRP:CZ3	1:B:2129:LEU:HD21	2.55	0.42
1:B:2255:LEU:HD12	1:B:2258:GLU:HB2	2.01	0.42
1:B:2291:GLN:O	1:B:2294:ILE:N	2.53	0.42
1:B:2320:ALA:CA	1:B:2367:VAL:HG23	2.49	0.42
1:B:2325:LEU:O	1:B:2329:TYR:HB2	2.18	0.42
1:B:2776:ARG:H	1:B:2776:ARG:HG2	1.59	0.42
1:B:3047:SER:HB2	1:B:3050:LYS:CE	2.48	0.42
1:B:3470:GLN:HG2	1:B:3474:ARG:HH11	1.83	0.42
1:B:3987:ALA:O	1:B:3991:PHE:HD1	2.01	0.42
1:B:4019:LYS:HE2	1:B:4019:LYS:HA	2.01	0.42
2:S:212:UNK:C	2:S:214:UNK:N	2.82	0.42
1:A:14:ARG:HH12	1:A:2392:VAL:HG11	1.83	0.42
1:A:131:LEU:HD23	1:A:135:LEU:HD11	2.02	0.42
1:A:143:LEU:H	1:A:143:LEU:CD1	2.25	0.42
1:A:568:PHE:O	1:A:571:SER:N	2.52	0.42
1:A:658:THR:HA	1:A:733:LEU:CD2	2.38	0.42
1:A:901:MSE:SE	1:A:2536:LEU:HD21	2.69	0.42
1:A:1345:THR:HG22	1:A:1349:LEU:HD12	2.01	0.42
1:A:1798:LEU:O	1:A:1802:TYR:HB2	2.19	0.42
1:A:1955:VAL:HA	1:A:2003:LYS:HZ2	1.85	0.42
1:A:2167:PRO:HA	1:A:2171:LEU:H	1.84	0.42
1:A:2300:PHE:HZ	1:A:2341:LEU:HD22	1.83	0.42
1:A:2462:VAL:HG13	1:A:2470:ARG:HE	1.84	0.42
1:A:3069:MSE:HA	1:A:3072:GLU:HB3	2.02	0.42
1:A:3465:PHE:HD1	1:A:3483:MSE:SE	2.52	0.42
1:A:3557:ARG:O	1:A:3560:SER:HB3	2.19	0.42
1:A:3568:ILE:HG21	1:A:3699:LEU:HD21	2.01	0.42
1:A:3587:ASP:HB3	1:A:4022:LYS:HZ2	1.85	0.42
1:A:3640:PHE:O	1:A:3644:PHE:CG	2.72	0.42
1:A:3972:LEU:HD12	1:A:3974:MSE:HE3	2.01	0.42
1:B:294:PHE:CE2	1:B:298:LEU:HD21	2.55	0.42
1:B:403:GLY:O	1:B:405:ASP:N	2.52	0.42
1:B:557:SER:O	1:B:560:LEU:HG	2.19	0.42
1:B:808:GLU:CD	1:B:3114:TYR:HB3	2.40	0.42
1:B:892:LEU:HD11	1:B:958:MSE:CB	2.49	0.42
1:B:932:GLU:O	1:B:935:HIS:HB3	2.18	0.42
1:B:1163:LEU:CD2	1:B:1260:LEU:HD11	2.47	0.42
1:B:1353:PRO:HG3	1:B:1358:LEU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2012:ARG:HA	1:B:2012:ARG:HD3	1.79	0.42
1:B:2171:LEU:CD2	1:B:2177:ASN:HD21	2.32	0.42
1:B:2424:MSE:HA	1:B:2436:LEU:HD12	2.01	0.42
1:B:2928:LYS:HB3	1:B:3784:ARG:CG	2.49	0.42
1:B:3624:GLY:O	1:B:3625:LEU:HD23	2.19	0.42
1:B:3754:GLY:HA2	1:B:3800:LEU:HB2	2.02	0.42
1:B:3946:PHE:HE2	1:B:4048:LYS:HD2	1.84	0.42
1:A:153:PHE:HA	1:A:156:PHE:CD2	2.54	0.42
1:A:177:LEU:HA	1:A:180:LEU:HD12	2.01	0.42
1:A:438:LEU:HD12	1:A:438:LEU:HA	1.87	0.42
1:A:560:LEU:CB	1:A:616:LYS:HZ3	2.05	0.42
1:A:1475:LEU:O	1:A:1479:VAL:HG23	2.20	0.42
1:A:1632:TRP:N	1:A:1632:TRP:CD1	2.86	0.42
1:A:1968:SER:O	1:A:1971:PRO:HD2	2.19	0.42
1:A:1999:GLU:OE1	1:A:2051:SER:HB2	2.20	0.42
1:A:2023:SER:HB2	1:A:2024:TYR:CE1	2.54	0.42
1:A:2386:LEU:HA	1:A:2386:LEU:HD23	1.75	0.42
1:A:2473:MSE:HE2	1:A:2473:MSE:HB3	1.90	0.42
1:A:2797:VAL:HG12	1:A:2800:ARG:NH1	2.34	0.42
1:A:2926:LEU:HD22	1:A:2931:ARG:NE	2.34	0.42
1:A:3247:ARG:NE	1:A:3278:GLN:OE1	2.50	0.42
1:A:3272:TRP:CZ3	1:A:3307:LEU:HD11	2.55	0.42
1:A:3315:TYR:CG	1:A:3316:LEU:N	2.88	0.42
1:B:88:PHE:HB3	1:B:92:PHE:CZ	2.55	0.42
1:B:436:GLU:O	1:B:439:VAL:HB	2.20	0.42
1:B:493:LYS:HB3	1:B:494:PRO:HD2	2.00	0.42
1:B:742:GLU:HA	1:B:745:VAL:HG23	2.01	0.42
1:B:766:ALA:C	1:B:768:VAL:H	2.17	0.42
1:B:971:ARG:O	1:B:974:CYS:HB3	2.19	0.42
1:B:1064:TYR:CD1	1:B:1106:ILE:HD11	2.55	0.42
1:B:1300:SER:O	1:B:1304:HIS:ND1	2.35	0.42
1:B:1493:PRO:O	1:B:1497:ARG:HG2	2.20	0.42
1:B:1596:VAL:HG13	1:B:1597:LEU:H	1.83	0.42
1:B:1608:ARG:O	1:B:1608:ARG:NE	2.51	0.42
1:B:2360:PHE:O	1:B:2364:LEU:HG	2.19	0.42
1:B:2379:MSE:HE1	1:B:2404:ARG:CD	2.42	0.42
1:B:2424:MSE:HA	1:B:2436:LEU:CD1	2.49	0.42
1:B:3005:LEU:O	1:B:3254:LEU:HD21	2.20	0.42
1:B:3118:ASP:N	1:B:3118:ASP:OD1	2.51	0.42
1:B:3251:ASN:ND2	1:B:3254:LEU:HD13	2.35	0.42
1:B:3324:ARG:O	1:B:3328:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3479:THR:O	1:B:3483:MSE:CB	2.63	0.42
1:B:3501:HIS:ND1	1:B:4008:GLU:OE1	2.52	0.42
1:B:3570:ASP:HA	1:B:3573:ASN:HB3	2.02	0.42
1:B:3612:ARG:O	1:B:3615:ALA:HB3	2.19	0.42
1:B:3704:GLN:HG3	1:B:3796:MSE:SE	2.68	0.42
1:B:3705:TYR:HD2	1:B:3792:SER:HB2	1.84	0.42
1:B:3775:LEU:HD13	1:B:3781:CYS:SG	2.59	0.42
1:B:3819:THR:O	1:B:3823:GLU:HG2	2.18	0.42
1:A:367:GLY:O	1:A:369:PHE:N	2.52	0.42
1:A:463:LYS:O	1:A:466:LEU:HB3	2.19	0.42
1:A:481:THR:O	1:A:485:GLN:HG2	2.18	0.42
1:A:560:LEU:HA	1:A:563:LEU:HD12	2.01	0.42
1:A:678:LYS:HB2	1:A:743:LEU:HD13	2.02	0.42
1:A:736:LEU:HA	1:A:739:ASN:HB2	2.02	0.42
1:A:866:ILE:HG21	1:A:3129:LEU:HD22	2.02	0.42
1:A:924:ARG:H	1:A:924:ARG:HG2	1.74	0.42
1:A:1019:ASP:HB2	1:A:1021:VAL:HG23	2.00	0.42
1:A:1238:GLN:HG3	1:A:1298:LEU:HD21	2.01	0.42
1:A:1469:PRO:HG3	1:A:1510:LEU:HD21	2.00	0.42
1:A:1718:ILE:CG2	1:A:1750:LEU:HD11	2.48	0.42
1:A:1970:LYS:HZ3	1:A:2017:GLY:HA3	1.85	0.42
1:A:2136:PRO:C	1:A:2139:PRO:HD2	2.39	0.42
1:A:2322:VAL:HG12	1:A:2323:LEU:N	2.35	0.42
1:A:2357:GLU:CD	1:A:2388:LYS:HZ1	2.22	0.42
1:A:2367:VAL:O	1:A:2371:PHE:HE1	2.03	0.42
1:A:2408:MSE:O	1:A:2409:THR:OG1	2.31	0.42
1:A:2548:PRO:O	1:A:2550:ILE:HG13	2.18	0.42
1:A:2869:LEU:HD23	1:A:2893:LEU:HA	2.01	0.42
1:A:2961:ALA:HB3	1:A:3254:LEU:CD1	2.49	0.42
1:A:3343:SER:O	1:A:3345:PRO:HD3	2.19	0.42
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.20	0.42
1:A:4037:ASN:O	1:A:4037:ASN:ND2	2.53	0.42
1:B:177:LEU:HG	1:B:177:LEU:H	1.63	0.42
1:B:224:LEU:HD13	1:B:248:ILE:HD13	2.00	0.42
1:B:356:ASN:CG	1:B:1859:ASN:H	2.23	0.42
1:B:575:ILE:HG13	1:B:579:LEU:HD13	2.01	0.42
1:B:957:PRO:O	1:B:961:LEU:HB2	2.20	0.42
1:B:1726:SER:O	1:B:1729:PHE:HB3	2.19	0.42
1:B:1890:HIS:HE1	1:B:1941:HIS:CD2	2.38	0.42
1:B:1952:ILE:HG12	1:B:1953:CYS:N	2.35	0.42
1:B:2555:LEU:HD12	1:B:2556:SER:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2646:UNK:HA	1:B:2778:GLY:HA3	2.00	0.42
1:B:2794:LEU:HD23	1:B:2794:LEU:HA	1.80	0.42
1:B:2957:LEU:HD21	1:B:4101:GLU:CG	2.50	0.42
1:B:3119:VAL:HG21	1:B:3899:ALA:CB	2.48	0.42
1:B:3629:ARG:NH2	1:B:3638:LYS:HZ1	2.17	0.42
1:B:3631:LYS:HD2	1:B:3681:LYS:O	2.19	0.42
1:B:3791:TYR:OH	1:B:3942:PHE:CE2	2.70	0.42
1:B:3824:GLU:O	1:B:3829:LEU:HD13	2.19	0.42
1:B:3850:HIS:CD2	1:B:3850:HIS:H	2.37	0.42
1:A:154:SER:OG	1:A:181:LEU:HD13	2.19	0.42
1:A:172:GLU:HG3	1:A:173:LYS:N	2.35	0.42
1:A:396:PHE:CZ	1:A:437:HIS:CD2	3.07	0.42
1:A:402:THR:HB	1:A:1763:THR:HB	2.02	0.42
1:A:655:LEU:HA	1:A:658:THR:OG1	2.18	0.42
1:A:774:GLU:OE2	1:A:854:ARG:HB2	2.19	0.42
1:A:899:ARG:HH22	1:A:2570:PRO:HB2	1.83	0.42
1:A:952:GLY:C	1:A:954:GLY:H	2.23	0.42
1:A:1700:THR:OG1	1:A:1701:SER:N	2.48	0.42
1:A:1890:HIS:CB	1:A:1937:ARG:HD2	2.46	0.42
1:A:1915:LEU:HD12	1:A:1916:ILE:N	2.34	0.42
1:A:1970:LYS:NZ	1:A:2017:GLY:CA	2.83	0.42
1:A:2311:ARG:HG2	1:A:2311:ARG:O	2.19	0.42
1:A:2813:PHE:HA	1:A:2816:ILE:CG2	2.47	0.42
1:A:3034:PRO:C	1:A:3036:TYR:H	2.23	0.42
1:A:3101:TYR:HE2	1:A:3102:TYR:CE1	2.38	0.42
1:A:3198:THR:OG1	1:A:3199:PRO:HD3	2.19	0.42
1:A:3530:VAL:HG11	1:A:3700:GLU:O	2.18	0.42
1:A:3771:MSE:O	1:A:3775:LEU:HG	2.20	0.42
1:A:3923:ARG:CG	1:A:3962:ARG:HH22	2.00	0.42
1:B:627:VAL:CG1	1:B:628:GLU:N	2.81	0.42
1:B:890:LYS:HD3	1:B:890:LYS:HA	1.85	0.42
1:B:898:PHE:HD2	1:B:2566:THR:OG1	2.02	0.42
1:B:1166:LEU:HB3	1:B:1170:LYS:HZ1	1.83	0.42
1:B:1270:PHE:HZ	1:B:1347:THR:C	2.23	0.42
1:B:1437:TYR:O	1:B:1439:PRO:HD2	2.20	0.42
1:B:1718:ILE:HG23	1:B:1750:LEU:CD1	2.40	0.42
1:B:1751:GLU:H	1:B:1751:GLU:HG3	1.57	0.42
1:B:1763:THR:N	1:B:1864:ASP:OD2	2.52	0.42
1:B:1889:VAL:HG22	1:B:1900:PHE:CE2	2.54	0.42
1:B:1927:MSE:C	1:B:1929:GLY:N	2.72	0.42
1:B:2074:PRO:HB2	1:B:2075:THR:H	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2168:LEU:H	1:B:2168:LEU:HG	1.56	0.42
1:B:2602:UNK:CB	1:B:2790:LEU:HD23	2.49	0.42
1:B:2823:PHE:CG	1:B:2824:LYS:N	2.86	0.42
1:B:2900:LEU:HD12	1:B:2905:LEU:HD21	2.02	0.42
1:B:3034:PRO:C	1:B:3036:TYR:H	2.23	0.42
1:B:3039:THR:O	1:B:3042:PRO:HD2	2.19	0.42
1:B:3141:PHE:HZ	1:B:3192:LYS:CB	2.31	0.42
1:B:3167:ARG:NH1	1:B:3167:ARG:CG	2.71	0.42
1:B:3255:ALA:HB1	1:B:3282:ARG:CZ	2.49	0.42
1:B:3585:PHE:CD1	1:B:3613:MSE:HE1	2.53	0.42
1:B:3588:TRP:NE1	1:B:3609:MSE:O	2.39	0.42
1:B:3763:ARG:HH21	1:B:4009:PRO:HG3	1.85	0.42
1:A:136:GLN:HG2	1:A:139:ARG:HH11	1.84	0.42
1:A:170:VAL:CG2	1:A:173:LYS:HD3	2.47	0.42
1:A:197:PHE:CZ	1:A:230:LEU:HD22	2.54	0.42
1:A:580:ASP:O	1:A:584:GLU:N	2.53	0.42
1:A:649:PHE:C	1:A:651:TYR:N	2.73	0.42
1:A:742:GLU:OE1	1:A:783:HIS:CD2	2.72	0.42
1:A:927:LYS:HE2	1:A:976:VAL:HG12	2.02	0.42
1:A:929:ALA:O	1:A:933:LEU:CB	2.67	0.42
1:A:1002:GLU:O	1:A:1005:ASP:OD2	2.38	0.42
1:A:1069:HIS:H	1:A:1070:PRO:CD	2.32	0.42
1:A:1093:GLU:HB3	1:A:1096:VAL:CG1	2.50	0.42
1:A:1360:LYS:H	1:A:1360:LYS:HG3	1.52	0.42
1:A:1372:LEU:HG	1:A:1418:HIS:HE1	1.85	0.42
1:A:1817:GLN:NE2	1:A:1821:ASP:HB2	2.35	0.42
1:A:1960:LYS:HB2	1:A:1998:MSE:SE	2.70	0.42
1:A:2065:ARG:HB3	1:A:2125:TRP:HD1	1.82	0.42
1:A:2292:CYS:CB	1:A:2300:PHE:HB2	2.38	0.42
1:A:2375:ALA:HB1	1:A:2411:LEU:CD2	2.49	0.42
1:A:2384:PHE:C	1:A:2387:PRO:HD2	2.39	0.42
1:A:2411:LEU:HG	1:A:2412:TYR:N	2.34	0.42
1:A:2433:LYS:O	1:A:2436:LEU:N	2.46	0.42
1:A:2434:VAL:O	1:A:2438:ILE:HG13	2.19	0.42
1:A:2990:GLU:O	1:A:2994:TRP:CD1	2.72	0.42
1:A:3181:ASP:HA	1:A:3184:THR:HG23	2.02	0.42
1:A:3450:MSE:O	1:A:3454:LEU:HG	2.20	0.42
1:A:3503:VAL:HG21	1:A:3535:ILE:C	2.40	0.42
1:A:3513:ALA:O	1:A:3518:VAL:HB	2.20	0.42
1:A:3575:LEU:O	1:A:3686:TRP:HH2	2.03	0.42
1:A:3619:ASP:N	1:A:3620:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3745:GLU:HG2	1:A:3745:GLU:O	2.20	0.42
1:A:3839:TYR:CE2	1:A:3843:LEU:HD11	2.54	0.42
1:A:3955:VAL:HG22	1:A:3957:GLU:HG3	2.01	0.42
1:B:38:LEU:HD13	1:B:62:ASP:OD2	2.20	0.42
1:B:558:GLU:HA	1:B:561:ASN:ND2	2.35	0.42
1:B:576:VAL:HG13	1:B:601:TRP:CE3	2.41	0.42
1:B:963:LYS:HG3	1:B:1009:LEU:HD11	2.00	0.42
1:B:1580:LEU:HD13	1:B:1639:LEU:HB3	2.00	0.42
1:B:1655:ILE:HD12	1:B:1655:ILE:H	1.85	0.42
1:B:1679:LEU:O	1:B:1683:LYS:HG3	2.19	0.42
1:B:1756:PRO:C	1:B:1758:LEU:N	2.71	0.42
1:B:2255:LEU:HD13	1:B:2258:GLU:OE1	2.20	0.42
1:B:2405:VAL:HB	1:B:2439:ILE:CD1	2.49	0.42
1:B:2411:LEU:HG	1:B:2412:TYR:N	2.35	0.42
1:B:2474:TYR:O	1:B:2478:MSE:HG3	2.19	0.42
1:B:2520:ILE:HG13	1:B:2524:PHE:CE2	2.55	0.42
1:B:2637:UNK:O	1:B:2641:UNK:CB	2.67	0.42
1:B:2933:ILE:HG22	1:B:2937:ASP:OD2	2.20	0.42
1:B:3258:LEU:HD22	1:B:3258:LEU:HA	1.75	0.42
1:B:3427:GLU:HG3	1:B:3439:LEU:HD13	2.01	0.42
1:B:3522:THR:OG1	1:B:3558:ILE:HD11	2.20	0.42
1:B:3816:LEU:HD23	1:B:3816:LEU:HA	1.84	0.42
2:S:114:UNK:O	2:S:116:UNK:N	2.53	0.42
1:A:35:ILE:HG21	1:A:84:GLU:HB3	2.02	0.42
1:A:453:MSE:SE	1:A:456:VAL:HG11	2.70	0.42
1:A:781:ASP:OD2	1:A:862:LEU:HD21	2.20	0.42
1:A:961:LEU:HD13	1:A:961:LEU:HA	1.81	0.42
1:A:1463:LEU:O	1:A:1467:ILE:HG12	2.20	0.42
1:A:1498:GLN:C	1:A:1501:PRO:HD2	2.40	0.42
1:A:1608:ARG:O	1:A:1608:ARG:NE	2.52	0.42
1:A:1655:ILE:HD13	1:A:1681:ASP:CB	2.45	0.42
1:A:1889:VAL:HG22	1:A:1900:PHE:CG	2.54	0.42
1:A:2066:PHE:CD1	1:A:2128:PHE:HE1	2.38	0.42
1:A:2210:VAL:HG13	1:A:2211:LEU:HG	2.01	0.42
1:A:2300:PHE:CE2	1:A:2341:LEU:HB2	2.54	0.42
1:A:2943:PHE:CE1	1:A:2984:GLY:HA2	2.55	0.42
1:A:3690:PHE:HD1	1:A:3692:VAL:HG23	1.84	0.42
1:A:3872:ARG:HD2	1:A:3965:ARG:NH1	2.35	0.42
1:A:3982:SER:HB3	1:A:3986:HIS:HE1	1.83	0.42
1:B:107:ILE:O	1:B:110:THR:HB	2.20	0.42
1:B:617:PRO:HB3	1:B:659:ARG:CD	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:792:ILE:O	1:B:796:LEU:HG	2.19	0.42
1:B:886:TRP:CH2	1:B:958:MSE:HB2	2.54	0.42
1:B:980:THR:HG22	1:B:984:TYR:CE2	2.52	0.42
1:B:1551:ILE:HA	1:B:1554:SER:HB3	2.02	0.42
1:B:1686:LEU:CD2	1:B:1727:ARG:NH1	2.83	0.42
1:B:1861:SER:O	1:B:1864:ASP:HB3	2.20	0.42
1:B:2135:ASN:N	1:B:2136:PRO:HD3	2.35	0.42
1:B:2166:SER:O	1:B:2170:GLN:CB	2.50	0.42
1:B:2171:LEU:CG	1:B:2177:ASN:HD21	2.29	0.42
1:B:2326:ILE:HD13	1:B:2326:ILE:HA	1.89	0.42
1:B:2443:MSE:N	1:B:2444:PRO:HD2	2.35	0.42
1:B:2531:LEU:HD12	1:B:2531:LEU:HA	1.89	0.42
1:B:2541:ALA:O	1:B:2545:LEU:HG	2.20	0.42
1:B:2875:ALA:HB2	1:B:2921:LEU:HD23	2.01	0.42
1:B:2905:LEU:HB2	1:B:2906:PRO:CD	2.50	0.42
1:B:3283:LEU:HD13	1:B:3287:ARG:CZ	2.50	0.42
1:B:3283:LEU:HD13	1:B:3287:ARG:NE	2.34	0.42
1:B:3529:ILE:O	1:B:3529:ILE:HG22	2.19	0.42
1:B:3577:GLN:HG3	1:B:3800:LEU:CD2	2.50	0.42
1:B:3694:PHE:CD2	1:B:3697:ASN:HA	2.54	0.42
1:B:3885:ARG:O	1:B:3888:VAL:HG12	2.20	0.42
1:A:403:GLY:C	1:A:405:ASP:N	2.71	0.42
1:A:575:ILE:HD13	1:A:603:ILE:HB	2.01	0.42
1:A:758:LEU:HD12	1:A:758:LEU:HA	1.91	0.42
1:A:971:ARG:HD2	1:A:1024:THR:CB	2.50	0.42
1:A:1127:CYS:O	1:A:1131:ILE:HG23	2.20	0.42
1:A:1279:LEU:HG	1:A:1292:LYS:NZ	2.33	0.42
1:A:1651:LYS:HB2	1:A:1684:LEU:CD1	2.50	0.42
1:A:1686:LEU:HD23	1:A:1727:ARG:CZ	2.50	0.42
1:A:1939:LEU:O	1:A:1942:CYS:N	2.53	0.42
1:A:1981:LEU:O	1:A:1984:LEU:HG	2.19	0.42
1:A:2154:GLU:N	1:A:2199:LEU:HD22	2.34	0.42
1:A:2166:SER:N	1:A:2167:PRO:CD	2.82	0.42
1:A:2233:HIS:HA	1:A:2236:GLU:CD	2.40	0.42
1:A:2913:LYS:HG3	1:A:2914:ALA:H	1.82	0.42
1:A:3454:LEU:HD21	1:A:3461:ALA:HB2	2.01	0.42
1:A:3789:ARG:HH22	1:A:3806:LEU:CD2	2.23	0.42
1:B:62:ASP:O	1:B:66:LEU:HD23	2.20	0.42
1:B:642:PHE:HE2	1:B:710:PHE:HE2	1.66	0.42
1:B:992:ILE:HA	1:B:995:PHE:CE2	2.54	0.42
1:B:1007:VAL:HA	1:B:1010:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1017:ILE:HB	1:B:1025:LEU:CB	2.47	0.42
1:B:1349:LEU:CD2	1:B:1353:PRO:HG2	2.49	0.42
1:B:1467:ILE:HG13	1:B:1468:LEU:HG	2.01	0.42
1:B:2327:LEU:HA	1:B:2330:VAL:HG12	2.01	0.42
1:B:2877:SER:O	1:B:2880:CYS:N	2.36	0.42
1:B:3053:LEU:HA	1:B:3053:LEU:HD23	1.55	0.42
1:B:3293:CYS:HA	1:B:3297:VAL:CG2	2.50	0.42
1:A:147:PHE:CD2	1:A:148:LYS:HG3	2.55	0.42
1:A:281:GLN:HA	1:A:326:MSE:SE	2.70	0.42
1:A:356:ASN:CG	1:A:1859:ASN:HB2	2.40	0.42
1:A:393:LYS:HA	1:A:396:PHE:CE1	2.54	0.42
1:A:429:GLU:OE1	1:A:429:GLU:N	2.53	0.42
1:A:436:GLU:OE2	1:A:475:LEU:HD11	2.19	0.42
1:A:654:ILE:HG23	1:A:722:LYS:NZ	2.35	0.42
1:A:846:ILE:HG23	1:A:854:ARG:NH1	2.35	0.42
1:A:1015:ASP:HA	1:A:1018:VAL:HG22	2.01	0.42
1:A:1083:ASN:HD21	1:A:1104:LEU:CD2	2.32	0.42
1:A:1303:MSE:HB2	1:A:1371:VAL:HG23	2.01	0.42
1:A:1715:GLU:O	1:A:1719:VAL:HG23	2.19	0.42
1:A:2035:THR:HG22	1:A:2076:VAL:HG13	2.02	0.42
1:A:2276:LEU:O	1:A:2279:ILE:HB	2.19	0.42
1:A:2387:PRO:O	1:A:2390:HIS:HB3	2.20	0.42
1:A:2472:GLN:O	1:A:2476:ILE:HG12	2.19	0.42
1:A:2520:ILE:HD12	1:A:2607:UNK:CB	2.50	0.42
1:A:2538:ARG:NH1	1:A:2565:MSE:HG3	2.35	0.42
1:A:2843:PHE:HE2	1:A:2853:PRO:HG3	1.85	0.42
1:A:3280:TYR:CG	1:A:3328:ILE:HD11	2.55	0.42
1:B:149:ILE:O	1:B:152:LEU:HG	2.20	0.42
1:B:446:PHE:HD2	1:B:533:HIS:CG	2.37	0.42
1:B:617:PRO:HB3	1:B:659:ARG:HD2	2.02	0.42
1:B:913:ARG:O	1:B:917:LEU:HG	2.20	0.42
1:B:977:ASP:HB3	1:B:980:THR:HG22	2.02	0.42
1:B:1335:CYS:HA	1:B:1338:VAL:HG12	2.01	0.42
1:B:1681:ASP:HB2	1:B:1717:LEU:CD2	2.50	0.42
1:B:1809:ASP:N	1:B:1810:PRO:HD3	2.35	0.42
1:B:2385:LEU:HG	1:B:2389:PHE:CZ	2.55	0.42
1:B:2398:LEU:O	1:B:2402:LEU:HD23	2.20	0.42
1:B:3148:GLN:HE22	1:B:3160:LEU:HD22	1.85	0.42
1:B:3283:LEU:HG	1:B:3300:VAL:CG2	2.49	0.42
1:B:3978:GLY:O	1:B:3979:LEU:HD23	2.19	0.42
1:A:82:ARG:NH1	1:A:114:VAL:HG13	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:ALA:HA	1:A:282:PHE:CD2	2.55	0.41
1:A:345:PHE:O	1:A:348:ILE:N	2.53	0.41
1:A:381:VAL:HB	1:A:384:MSE:SE	2.70	0.41
1:A:398:THR:HA	1:A:400:THR:HG22	2.02	0.41
1:A:417:VAL:O	1:A:420:VAL:HG12	2.20	0.41
1:A:489:ARG:HA	1:A:612:LEU:HB2	2.02	0.41
1:A:513:GLU:OE1	1:A:653:LEU:HD11	2.19	0.41
1:A:1060:PHE:CD2	1:A:1099:PHE:HZ	2.38	0.41
1:A:1080:LEU:HD23	1:A:1128:CYS:SG	2.61	0.41
1:A:1747:LEU:O	1:A:1748:ASP:C	2.58	0.41
1:A:1763:THR:N	1:A:1864:ASP:OD2	2.43	0.41
1:A:2082:GLU:HB2	1:A:2086:ASP:CB	2.50	0.41
1:A:2534:ASN:HB3	1:A:2537:ASP:HB2	2.01	0.41
1:A:2943:PHE:CD1	1:A:2944:THR:N	2.79	0.41
1:A:3386:SER:O	1:A:3390:GLN:HB2	2.19	0.41
1:A:3995:PRO:O	1:A:3999:THR:OG1	2.17	0.41
1:B:368:LEU:HD13	1:B:388:LEU:HD23	2.00	0.41
1:B:454:GLN:CG	1:B:533:HIS:HE1	2.29	0.41
1:B:2047:THR:O	1:B:2050:GLN:HB2	2.20	0.41
1:B:2190:VAL:HG21	1:B:2241:LEU:CD1	2.47	0.41
1:B:2843:PHE:HE2	1:B:2853:PRO:HG3	1.84	0.41
1:B:3577:GLN:HA	1:B:3800:LEU:HD22	2.02	0.41
1:B:3585:PHE:O	1:B:3589:SER:OG	2.30	0.41
1:A:100:ILE:O	1:A:100:ILE:HG22	2.20	0.41
1:A:560:LEU:HA	1:A:563:LEU:CG	2.50	0.41
1:A:997:ASN:HA	1:A:1042:LYS:HD3	2.03	0.41
1:A:1503:LEU:HD23	1:A:1503:LEU:HA	1.88	0.41
1:A:1569:THR:O	1:A:1573:LYS:CB	2.67	0.41
1:A:1711:ARG:HG3	1:A:1712:ARG:N	2.35	0.41
1:A:1722:PHE:O	1:A:1725:GLN:HB3	2.20	0.41
1:A:2263:LYS:HB3	1:A:2264:ASP:H	1.61	0.41
1:A:2458:VAL:HG12	1:A:2473:MSE:HG3	2.01	0.41
1:A:2482:ASP:HB2	1:A:2485:ARG:NH2	2.35	0.41
1:A:2502:ALA:O	1:A:2506:LEU:HG	2.19	0.41
1:A:3351:ILE:HG23	1:A:3355:LYS:CE	2.49	0.41
1:A:3454:LEU:HD21	1:A:3461:ALA:CB	2.50	0.41
1:A:3505:LEU:HD12	1:A:3509:ASP:CB	2.45	0.41
1:B:43:VAL:O	1:B:45:SER:N	2.52	0.41
1:B:271:GLY:HA2	1:B:274:LEU:HD11	2.02	0.41
1:B:389:ILE:HG23	1:B:434:VAL:HG21	2.00	0.41
1:B:1354:GLU:C	1:B:1356:TRP:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2010:GLU:C	1:B:2012:ARG:N	2.73	0.41
1:B:2166:SER:N	1:B:2167:PRO:HD2	2.35	0.41
1:B:2193:ILE:HD12	1:B:2245:TRP:CZ2	2.54	0.41
1:B:2277:LEU:O	1:B:2280:VAL:HB	2.20	0.41
1:B:2337:LEU:HD12	1:B:2337:LEU:HA	1.86	0.41
1:B:2359:LYS:O	1:B:2362:VAL:HG22	2.20	0.41
1:B:2365:ASN:HA	1:B:2368:THR:HB	2.00	0.41
1:B:2473:MSE:HE2	1:B:2473:MSE:HB3	1.82	0.41
1:B:2837:LEU:HD13	1:B:2868:LEU:N	2.35	0.41
1:B:2886:GLN:HG3	1:B:2886:GLN:H	1.48	0.41
1:B:3241:LYS:O	1:B:3243:ILE:N	2.41	0.41
1:B:3929:MSE:HB3	1:B:3938:ILE:HD12	2.02	0.41
1:A:349:ILE:HG12	1:A:364:ARG:HB2	2.01	0.41
1:A:398:THR:C	1:A:400:THR:N	2.74	0.41
1:A:513:GLU:OE2	1:A:655:LEU:HD23	2.21	0.41
1:A:592:GLU:HB3	1:A:601:TRP:HZ2	1.84	0.41
1:A:922:SER:OG	1:A:925:GLN:OE1	2.19	0.41
1:A:955:ALA:O	1:A:959:TYR:HB3	2.19	0.41
1:A:999:LYS:HD2	1:A:1001:PHE:CE2	2.55	0.41
1:A:1163:LEU:HD23	1:A:1260:LEU:HD11	2.03	0.41
1:A:1251:GLN:O	1:A:1255:CYS:HB2	2.20	0.41
1:A:1582:LEU:O	1:A:1583:MSE:C	2.59	0.41
1:A:1684:LEU:HA	1:A:1684:LEU:HD23	1.82	0.41
1:A:1695:LEU:O	1:A:1700:THR:HB	2.20	0.41
1:A:2103:HIS:HA	1:A:2106:ARG:HB2	2.02	0.41
1:A:2168:LEU:HD13	1:A:2214:ARG:NH2	2.35	0.41
1:A:2443:MSE:CE	1:A:2476:ILE:HB	2.34	0.41
1:A:2462:VAL:HA	1:A:2465:PRO:HD3	2.02	0.41
1:A:2841:ASN:HD22	1:A:2871:LEU:HG	1.86	0.41
1:A:3011:LEU:O	1:A:3011:LEU:HD13	2.19	0.41
1:A:3056:GLU:HA	1:A:3092:LEU:HD11	2.02	0.41
1:A:3621:LYS:HB3	1:A:3638:LYS:HE2	2.02	0.41
1:B:19:LEU:HB2	1:B:34:LEU:HD13	2.02	0.41
1:B:61:ARG:O	1:B:65:LEU:CB	2.54	0.41
1:B:113:SER:O	1:B:116:THR:HB	2.20	0.41
1:B:162:LEU:HD21	1:B:196:LEU:HD13	2.01	0.41
1:B:259:GLN:C	1:B:260:ILE:HG13	2.41	0.41
1:B:646:VAL:HG11	1:B:710:PHE:CZ	2.54	0.41
1:B:850:GLU:CD	1:B:854:ARG:HH21	2.21	0.41
1:B:1025:LEU:HD12	1:B:1028:PHE:HD2	1.84	0.41
1:B:1164:CYS:O	1:B:1164:CYS:SG	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1648:LEU:O	1:B:1652:ILE:HD12	2.20	0.41
1:B:2160:TYR:HA	1:B:2163:HIS:CD2	2.55	0.41
1:B:2213:ASN:CB	1:B:2250:SER:HB2	2.50	0.41
1:B:2367:VAL:HG22	1:B:2371:PHE:CE1	2.55	0.41
1:B:2396:LEU:H	1:B:2396:LEU:HD12	1.85	0.41
1:B:2647:UNK:HA	1:B:2775:TYR:HD1	1.85	0.41
1:B:2806:LYS:HD3	1:B:2855:VAL:CG1	2.43	0.41
1:A:51:LEU:H	1:A:51:LEU:HG	1.62	0.41
1:A:166:ILE:HG22	1:A:167:PRO:HD2	2.02	0.41
1:A:449:TYR:CD2	1:A:454:GLN:HA	2.55	0.41
1:A:488:ILE:HD12	1:A:616:LYS:HD3	2.02	0.41
1:A:741:ILE:HB	1:A:744:ASP:CG	2.40	0.41
1:A:851:ILE:O	1:A:855:VAL:HG23	2.19	0.41
1:A:1060:PHE:HB3	1:A:1064:TYR:CE2	2.56	0.41
1:A:1640:GLU:HG2	1:A:1691:GLN:HG2	2.01	0.41
1:A:1729:PHE:HZ	1:A:1870:LYS:HZ3	1.69	0.41
1:A:1997:PRO:HA	1:A:2000:ARG:N	2.36	0.41
1:A:2813:PHE:O	1:A:2816:ILE:HG22	2.20	0.41
1:A:3151:LEU:HA	1:A:3152:SER:HA	1.85	0.41
1:B:1006:THR:O	1:B:1010:LEU:HG	2.21	0.41
1:B:1092:GLU:O	1:B:1093:GLU:HB2	2.20	0.41
1:B:1289:SER:O	1:B:1289:SER:OG	2.39	0.41
1:B:1735:ARG:O	1:B:1736:PHE:HB2	2.20	0.41
1:B:1761:LEU:HD23	1:B:1762:MSE:N	2.36	0.41
1:B:1931:ASN:OD1	1:B:1932:GLN:N	2.53	0.41
1:B:1945:TYR:HD1	1:B:1948:ALA:HB3	1.86	0.41
1:B:2003:LYS:HA	1:B:2006:GLU:HB2	2.03	0.41
1:B:2066:PHE:HB3	1:B:2067:ARG:HA	2.02	0.41
1:B:2386:LEU:HA	1:B:2386:LEU:HD23	1.80	0.41
1:B:2870:SER:C	1:B:2872:ASP:N	2.71	0.41
1:B:2995:GLU:O	1:B:2998:SER:HB3	2.20	0.41
1:B:3778:ASP:OD1	1:B:3780:ALA:N	2.53	0.41
1:B:3944:HIS:CG	1:B:3949:ALA:HA	2.55	0.41
1:B:3953:LEU:HD13	1:B:4069:GLU:HB3	2.01	0.41
1:B:4028:ILE:HA	1:B:4031:ILE:HD12	2.02	0.41
1:A:249:PHE:HZ	1:A:272:LEU:HD12	1.86	0.41
1:A:703:CYS:O	1:A:707:PHE:CD1	2.73	0.41
1:A:1025:LEU:HA	1:A:1025:LEU:HD12	1.78	0.41
1:A:2083:LEU:HD23	1:A:2083:LEU:HA	1.81	0.41
1:A:2163:HIS:O	1:A:2167:PRO:HD3	2.21	0.41
1:A:2239:LYS:HE2	1:A:2240:THR:CG2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2512:ASP:HB2	1:A:2515:PRO:HD2	2.02	0.41
1:A:3002:TYR:CE1	1:A:3003:ASN:HB3	2.55	0.41
1:A:3048:LYS:HZ3	1:A:3089:LEU:HB3	1.85	0.41
1:A:3135:LEU:O	1:A:3138:ILE:HB	2.20	0.41
1:A:3640:PHE:HB3	1:A:3644:PHE:CD2	2.56	0.41
1:A:3687:MSE:C	1:A:3689:ASP:N	2.70	0.41
1:A:3710:LYS:HA	1:A:3710:LYS:HD3	1.95	0.41
1:B:31:GLY:O	1:B:34:LEU:HB3	2.20	0.41
1:B:368:LEU:C	1:B:372:PRO:HG2	2.41	0.41
1:B:394:GLN:O	1:B:398:THR:HG23	2.20	0.41
1:B:476:ARG:HA	1:B:479:ILE:CG1	2.50	0.41
1:B:567:GLU:OE2	1:B:1798:LEU:HD22	2.21	0.41
1:B:633:ILE:HG23	1:B:637:LYS:CE	2.51	0.41
1:B:906:PHE:O	1:B:909:VAL:HB	2.21	0.41
1:B:1076:LEU:HD23	1:B:1076:LEU:HA	1.75	0.41
1:B:1255:CYS:SG	1:B:1333:SER:HB3	2.60	0.41
1:B:1366:THR:O	1:B:1369:MSE:HB2	2.20	0.41
1:B:1608:ARG:HD3	1:B:1631:SER:H	1.86	0.41
1:B:2129:LEU:HD13	1:B:2156:VAL:CG1	2.51	0.41
1:B:2427:ARG:HB3	1:B:2433:LYS:HB2	2.02	0.41
1:B:2634:UNK:O	1:B:2637:UNK:N	2.53	0.41
1:B:2789:SER:O	1:B:2793:PRO:HD3	2.21	0.41
1:B:2970:LYS:HE3	1:B:2974:GLU:OE2	2.21	0.41
1:B:3006:ALA:HB2	1:B:3254:LEU:HD11	2.03	0.41
1:B:3026:ASP:O	1:B:3030:ILE:HG13	2.20	0.41
1:B:3072:GLU:HA	1:B:3076:ALA:HA	2.03	0.41
1:B:3974:MSE:CB	1:B:3976:GLU:HB3	2.49	0.41
1:A:75:SER:HA	1:A:79:ARG:HG3	2.01	0.41
1:A:197:PHE:CE2	1:A:230:LEU:HD22	2.56	0.41
1:A:246:ARG:CA	1:A:249:PHE:HD2	2.32	0.41
1:A:504:GLU:O	1:A:508:HIS:CG	2.74	0.41
1:A:752:LEU:O	1:A:756:PHE:HD1	2.02	0.41
1:A:923:ASP:O	1:A:927:LYS:HE3	2.20	0.41
1:A:1014:LEU:O	1:A:1078:ALA:HB2	2.19	0.41
1:A:1116:ALA:HB2	1:A:1164:CYS:HB3	2.03	0.41
1:A:1220:LEU:HD13	1:A:1274:ARG:CG	2.49	0.41
1:A:1359:LEU:HD11	1:A:1365:ASN:OD1	2.20	0.41
1:A:2412:TYR:HD2	1:A:2416:LYS:NZ	2.17	0.41
1:A:2520:ILE:HG23	1:A:2521:ILE:N	2.36	0.41
1:A:2858:ILE:CD1	1:A:2888:VAL:HB	2.51	0.41
1:A:2887:PRO:HG3	1:A:2921:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2936:TYR:HD2	1:A:3979:LEU:HD21	1.83	0.41
1:A:2962:ARG:HH22	1:A:3006:ALA:HB1	1.85	0.41
1:A:3614:TYR:CD1	1:A:3618:GLY:HA3	2.56	0.41
1:A:3622:ALA:HB1	1:A:3623:PRO:HD2	2.02	0.41
1:A:3723:ASP:HB2	1:A:3741:ARG:NE	2.33	0.41
1:A:3766:GLN:O	1:A:3769:GLN:HG2	2.21	0.41
1:A:3920:ILE:HG13	1:A:3923:ARG:HD3	2.02	0.41
1:B:168:ASP:O	1:B:170:VAL:N	2.47	0.41
1:B:204:LEU:HD22	1:B:219:VAL:CG1	2.46	0.41
1:B:204:LEU:HG	1:B:204:LEU:H	1.53	0.41
1:B:431:TYR:CA	1:B:434:VAL:HG12	2.44	0.41
1:B:527:TYR:CD1	1:B:531:PHE:HZ	2.38	0.41
1:B:717:LYS:HZ3	1:B:1121:LEU:HD11	1.83	0.41
1:B:989:MSE:SE	1:B:1030:GLY:O	2.89	0.41
1:B:1880:MSE:O	1:B:1883:ARG:N	2.51	0.41
1:B:2066:PHE:CD1	1:B:2128:PHE:HE1	2.39	0.41
1:B:2164:TRP:CZ3	1:B:2186:VAL:HG23	2.55	0.41
1:B:2542:LEU:HD13	1:B:2546:TYR:CE2	2.56	0.41
1:B:3329:LEU:O	1:B:3332:THR:OG1	2.32	0.41
1:B:3494:GLN:O	1:B:3498:TRP:CZ3	2.73	0.41
1:B:3736:LYS:HB3	1:B:3752:VAL:HB	2.02	0.41
1:B:3772:ASN:HA	1:B:3775:LEU:HG	2.02	0.41
1:A:160:LEU:O	1:A:164:LYS:HG2	2.20	0.41
1:A:217:LEU:N	1:A:218:PRO:HD2	2.36	0.41
1:A:396:PHE:CE1	1:A:437:HIS:CD2	3.08	0.41
1:A:474:VAL:HG11	1:A:1564:SER:CB	2.50	0.41
1:A:481:THR:HG22	1:A:482:VAL:N	2.35	0.41
1:A:508:HIS:CD2	1:A:725:LEU:HD13	2.55	0.41
1:A:560:LEU:O	1:A:563:LEU:N	2.54	0.41
1:A:704:PHE:HA	1:A:707:PHE:CG	2.56	0.41
1:A:959:TYR:O	1:A:963:LYS:CB	2.62	0.41
1:A:980:THR:CG2	1:A:984:TYR:CE1	3.01	0.41
1:A:1165:LEU:O	1:A:1166:LEU:C	2.59	0.41
1:A:1168:LEU:O	1:A:1171:TRP:HB3	2.21	0.41
1:A:1364:CYS:C	1:A:1366:THR:N	2.74	0.41
1:A:1500:LEU:HB3	1:A:1501:PRO:HD3	2.03	0.41
1:A:1816:ARG:HD3	1:A:1819:PHE:HE1	1.86	0.41
1:A:1949:ILE:HD12	1:A:1949:ILE:HA	1.88	0.41
1:A:1992:VAL:HG23	1:A:1993:GLU:N	2.35	0.41
1:A:2040:MSE:HA	1:A:2043:PHE:CD1	2.55	0.41
1:A:2070:GLU:HB2	1:A:2072:ARG:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2219:LEU:HB3	1:A:2238:ILE:HG21	2.02	0.41
1:A:2238:ILE:O	1:A:2242:VAL:HG23	2.21	0.41
1:A:2344:LEU:O	1:A:2347:LYS:HB2	2.21	0.41
1:A:2541:ALA:O	1:A:2545:LEU:HG	2.20	0.41
1:A:2824:LYS:HB3	1:A:2825:THR:H	1.69	0.41
1:A:2863:CYS:O	1:A:2865:HIS:N	2.54	0.41
1:A:2920:VAL:O	1:A:2923:TRP:HB3	2.21	0.41
1:A:3033:GLU:OE2	1:A:3079:GLU:CD	2.59	0.41
1:A:3356:ALA:HB1	1:A:3384:HIS:HB3	2.02	0.41
1:A:3502:MSE:CE	1:A:3517:SER:HB3	2.51	0.41
1:A:3529:ILE:O	1:A:3529:ILE:HG22	2.21	0.41
1:A:3676:PRO:CG	1:A:3677:PRO:HD3	2.50	0.41
1:A:3928:PHE:CD1	1:A:3928:PHE:O	2.74	0.41
1:B:752:LEU:HA	1:B:755:ALA:CB	2.50	0.41
1:B:989:MSE:CG	1:B:1031:ARG:NH1	2.83	0.41
1:B:1273:GLU:HG2	1:B:1276:VAL:HB	2.02	0.41
1:B:1513:GLY:O	1:B:1517:LEU:HG	2.19	0.41
1:B:1909:ASN:ND2	1:B:1909:ASN:N	2.69	0.41
1:B:1911:LEU:HD22	1:B:1916:ILE:HG21	2.03	0.41
1:B:1946:ASN:ND2	1:B:1993:GLU:OE2	2.40	0.41
1:B:1996:VAL:HG23	1:B:1997:PRO:CD	2.51	0.41
1:B:2062:ALA:O	1:B:2066:PHE:N	2.53	0.41
1:B:2412:TYR:CG	1:B:2412:TYR:O	2.73	0.41
1:B:2565:MSE:O	1:B:2565:MSE:SE	2.88	0.41
1:B:2787:HIS:HB3	1:B:2790:LEU:HD12	2.02	0.41
1:B:2870:SER:HA	1:B:2897:LEU:CD2	2.51	0.41
1:B:2925:GLU:HB3	1:B:3121:LEU:HD21	2.02	0.41
1:B:2975:ALA:C	1:B:2977:ASN:N	2.74	0.41
1:B:3136:THR:O	1:B:3140:GLU:CB	2.68	0.41
1:B:3259:LEU:HD11	1:B:3275:SER:O	2.21	0.41
1:B:3291:GLN:O	1:B:3294:SER:OG	2.39	0.41
1:B:3492:CYS:HB2	1:B:3713:PRO:HG3	2.03	0.41
1:B:4002:MSE:O	1:B:4006:VAL:HG13	2.21	0.41
1:B:4082:ARG:HG3	1:B:4091:ALA:CB	2.37	0.41
1:A:265:TYR:C	1:A:268:PRO:HD2	2.40	0.41
1:A:1111:LEU:N	1:A:1111:LEU:HD12	2.35	0.41
1:A:1894:SER:C	1:A:1896:ILE:H	2.24	0.41
1:A:2138:VAL:HB	1:A:2139:PRO:HD3	2.03	0.41
1:A:2330:VAL:CG2	1:A:2338:GLU:HB3	2.35	0.41
1:A:2423:VAL:HG22	1:A:2424:MSE:N	2.36	0.41
1:A:2640:UNK:O	1:A:2641:UNK:C	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2999:LEU:HD12	1:A:3002:TYR:HE2	1.86	0.41
1:A:3048:LYS:HB3	1:A:3048:LYS:HE2	1.68	0.41
1:A:3190:LEU:O	1:A:3194:GLU:HB2	2.21	0.41
1:A:4070:LYS:HB3	1:A:4073:ALA:HB3	2.02	0.41
1:B:46:SER:H	1:B:51:LEU:CD1	2.34	0.41
1:B:70:ARG:NH2	1:B:79:ARG:HG2	2.35	0.41
1:B:476:ARG:HA	1:B:479:ILE:HG13	2.03	0.41
1:B:634:LEU:CB	1:B:638:GLN:HE22	2.32	0.41
1:B:911:LEU:O	1:B:915:THR:HG23	2.20	0.41
1:B:1463:LEU:HD23	1:B:1463:LEU:O	2.21	0.41
1:B:1548:GLY:O	1:B:1552:HIS:ND1	2.53	0.41
1:B:1606:ARG:NH1	1:B:1806:ARG:HB3	2.36	0.41
1:B:1874:TYR:HD2	1:B:1885:PRO:HG3	1.85	0.41
1:B:1880:MSE:CE	1:B:1884:LEU:HD11	2.51	0.41
1:B:2009:LYS:CG	1:B:2010:GLU:H	2.34	0.41
1:B:2083:LEU:HD23	1:B:2083:LEU:HA	1.82	0.41
1:B:2164:TRP:CE3	1:B:2215:LEU:HG	2.55	0.41
1:B:2367:VAL:O	1:B:2371:PHE:HE1	2.04	0.41
1:B:2371:PHE:CG	1:B:2372:PRO:HD3	2.56	0.41
1:B:2440:TYR:CE2	1:B:2443:MSE:SE	3.24	0.41
1:B:2943:PHE:C	1:B:2945:SER:N	2.73	0.41
1:B:3031:TRP:CD2	1:B:3034:PRO:HD3	2.56	0.41
1:B:3148:GLN:NE2	1:B:3197:LEU:HD12	2.36	0.41
1:B:3839:TYR:CE1	1:B:3867:THR:HB	2.29	0.41
1:A:15:LEU:HA	1:A:2359:LYS:NZ	2.36	0.41
1:A:178:LEU:HB3	1:A:197:PHE:CE1	2.56	0.41
1:A:295:GLU:HA	1:A:298:LEU:HB2	2.02	0.41
1:A:298:LEU:O	1:A:301:CYS:HB3	2.21	0.41
1:A:340:TYR:O	1:A:344:GLN:HG3	2.21	0.41
1:A:995:PHE:HZ	1:A:1006:THR:HG1	1.69	0.41
1:A:1005:ASP:HB2	1:A:1006:THR:H	1.63	0.41
1:A:1013:ILE:HG21	1:A:1028:PHE:HB2	2.02	0.41
1:A:1069:HIS:N	1:A:1070:PRO:CD	2.84	0.41
1:A:1147:LYS:CD	1:A:1180:GLN:HG2	2.50	0.41
1:A:1369:MSE:CE	1:A:1418:HIS:HB2	2.51	0.41
1:A:1385:ASN:O	1:A:1388:ASP:N	2.46	0.41
1:A:1431:LEU:HD11	1:A:1479:VAL:HG22	2.01	0.41
1:A:1874:TYR:CD2	1:A:1885:PRO:HG3	2.56	0.41
1:A:1938:ARG:O	1:A:1941:HIS:HB3	2.21	0.41
1:A:2165:LEU:HD11	1:A:2211:LEU:HD22	2.03	0.41
1:A:2239:LYS:CD	1:A:2279:ILE:HD12	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2439:ILE:HG12	1:A:2442:MSE:CE	2.51	0.41
1:A:2445:LYS:HA	1:A:2445:LYS:HD3	1.78	0.41
1:A:2514:ASN:H	1:A:2515:PRO:HD3	1.86	0.41
1:A:2646:UNK:CB	1:A:2779:ASP:HA	2.51	0.41
1:A:2797:VAL:HG23	1:A:2798:ALA:N	2.36	0.41
1:A:2876:VAL:HG13	1:A:3035:PHE:CE1	2.56	0.41
1:A:2884:LEU:HD12	1:A:2884:LEU:H	1.86	0.41
1:A:2943:PHE:HE1	1:A:2984:GLY:HA2	1.86	0.41
1:A:3027:LEU:HB3	1:A:3031:TRP:CZ2	2.56	0.41
1:A:3311:ASN:HB3	1:A:3312:VAL:H	1.62	0.41
1:A:3356:ALA:HB2	1:A:3384:HIS:HB3	2.03	0.41
1:A:3425:ARG:NH1	1:A:3999:THR:CG2	2.84	0.41
1:A:3567:VAL:HG22	1:A:3571:PHE:CZ	2.56	0.41
1:A:3736:LYS:HD2	1:A:3752:VAL:HG21	2.03	0.41
1:A:3741:ARG:HG2	1:A:3741:ARG:HH11	1.84	0.41
1:A:3779:SER:O	1:A:3782:SER:N	2.54	0.41
1:A:3850:HIS:CD2	1:A:3850:HIS:H	2.39	0.41
1:A:3887:PHE:O	1:A:3890:MSE:HG2	2.20	0.41
1:A:3972:LEU:HD12	1:A:3974:MSE:CE	2.51	0.41
1:B:100:ILE:O	1:B:104:SER:HB3	2.20	0.41
1:B:153:PHE:CD1	1:B:154:SER:N	2.88	0.41
1:B:175:TYR:CD2	1:B:222:GLY:HA3	2.54	0.41
1:B:185:HIS:N	1:B:186:PRO:HD2	2.27	0.41
1:B:214:GLU:HB3	1:B:215:PRO:HD2	2.02	0.41
1:B:553:VAL:O	1:B:556:SER:HB3	2.21	0.41
1:B:613:HIS:CG	1:B:614:PRO:HD3	2.56	0.41
1:B:804:ALA:O	1:B:806:SER:N	2.53	0.41
1:B:806:SER:O	1:B:808:GLU:N	2.54	0.41
1:B:850:GLU:CD	1:B:854:ARG:NH2	2.75	0.41
1:B:922:SER:C	1:B:924:ARG:N	2.74	0.41
1:B:978:GLN:N	1:B:981:ARG:HD3	2.34	0.41
1:B:1145:LEU:HD13	1:B:1149:LYS:HD3	2.02	0.41
1:B:1165:LEU:O	1:B:1166:LEU:C	2.60	0.41
1:B:1338:VAL:HA	1:B:1341:ILE:HD12	2.03	0.41
1:B:1359:LEU:O	1:B:1362:ASP:OD1	2.39	0.41
1:B:1374:GLN:HA	1:B:1374:GLN:OE1	2.21	0.41
1:B:1583:MSE:HE3	1:B:1643:MSE:SE	2.70	0.41
1:B:1752:LEU:C	1:B:1754:GLN:H	2.23	0.41
1:B:1949:ILE:O	1:B:1952:ILE:HG22	2.20	0.41
1:B:1981:LEU:HA	1:B:1984:LEU:HD23	2.01	0.41
1:B:2009:LYS:HE2	1:B:2012:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2220:MSE:O	1:B:2221:LYS:C	2.59	0.41
1:B:2386:LEU:HD12	1:B:2404:ARG:HE	1.84	0.41
1:B:2849:SER:O	1:B:2850:PHE:CD1	2.74	0.41
1:B:3147:LYS:O	1:B:3151:LEU:HG	2.20	0.41
1:B:3151:LEU:HA	1:B:3152:SER:HA	1.73	0.41
1:B:3155:VAL:HG21	1:B:3159:ARG:HH21	1.83	0.41
1:B:3186:ARG:HH11	1:B:3186:ARG:HG3	1.85	0.41
1:B:3231:ILE:HG23	1:B:3235:LYS:HE3	2.02	0.41
1:B:3292:GLY:HA2	1:B:3296:GLN:HG2	2.03	0.41
1:B:3319:ASN:ND2	1:B:3400:SER:HA	2.35	0.41
1:B:3503:VAL:HG22	1:B:3539:SER:CB	2.51	0.41
1:B:3575:LEU:CD2	1:B:3687:MSE:SE	3.18	0.41
1:B:3632:PHE:HE2	1:B:3683:CYS:SG	2.43	0.41
1:B:3694:PHE:O	1:B:3697:ASN:N	2.54	0.41
1:B:3705:TYR:CD2	1:B:3792:SER:HB2	2.56	0.41
1:B:3950:THR:OG1	1:B:4065:LEU:HD22	2.20	0.41
1:B:4106:CYS:O	1:B:4108:MSE:N	2.54	0.41
1:A:34:LEU:HD11	1:A:38:LEU:HD11	2.03	0.41
1:A:591:GLN:HB3	1:A:1026:ARG:HD3	2.03	0.41
1:A:617:PRO:O	1:A:659:ARG:HD2	2.21	0.41
1:A:671:SER:O	1:A:675:ARG:HB2	2.21	0.41
1:A:776:TRP:CE2	1:A:780:ILE:HD12	2.55	0.41
1:A:846:ILE:HG23	1:A:854:ARG:HH12	1.86	0.41
1:A:960:GLN:CG	1:A:1009:LEU:HD21	2.44	0.41
1:A:1342:MSE:HE3	1:A:1402:LEU:HD23	2.03	0.41
1:A:1678:LEU:O	1:A:1681:ASP:OD1	2.38	0.41
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	2.02	0.41
1:A:1955:VAL:HA	1:A:2003:LYS:NZ	2.36	0.41
1:A:2256:ILE:CD1	1:A:2276:LEU:HD11	2.49	0.41
1:A:2442:MSE:O	1:A:2451:LEU:HD21	2.21	0.41
1:A:2536:LEU:HA	1:A:2536:LEU:HD23	1.81	0.41
1:A:2826:LEU:O	1:A:2830:ASN:HB2	2.21	0.41
1:A:3174:ASP:N	1:A:3175:PRO:CD	2.84	0.41
1:A:3301:LEU:HB2	1:A:3328:ILE:HG21	2.03	0.41
1:A:3454:LEU:C	1:A:3456:LEU:H	2.25	0.41
1:A:3629:ARG:O	1:A:3686:TRP:NE1	2.51	0.41
1:A:3630:ARG:HA	1:A:3686:TRP:NE1	2.36	0.41
1:A:3683:CYS:O	1:A:3687:MSE:HB2	2.21	0.41
1:B:115:TYR:O	1:B:118:ASP:HB3	2.21	0.41
1:B:155:LYS:O	1:B:159:GLU:HG3	2.21	0.41
1:B:710:PHE:O	1:B:711:GLY:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:892:LEU:CD2	1:B:907:LEU:HD13	2.50	0.41
1:B:1010:LEU:HD12	1:B:1011:GLU:H	1.85	0.41
1:B:1452:VAL:HG11	1:B:1502:SER:HB3	2.03	0.41
1:B:2044:ASP:O	1:B:2048:GLY:HA3	2.20	0.41
1:B:2795:GLN:O	1:B:2799:GLN:HG2	2.21	0.41
1:B:2915:ARG:O	1:B:2938:VAL:HG21	2.21	0.41
1:B:2991:LYS:O	1:B:2995:GLU:HG2	2.21	0.41
1:B:3593:ARG:HD3	1:B:3663:THR:HG21	2.03	0.41
1:B:3600:PRO:C	1:B:3602:ASN:N	2.75	0.41
1:B:3601:VAL:O	1:B:3605:ASN:HB2	2.21	0.41
1:B:3654:MSE:SE	1:B:3659:PHE:CB	3.17	0.41
1:B:3839:TYR:HB2	1:B:3871:PHE:CZ	2.56	0.41
1:B:3920:ILE:CG1	1:B:3923:ARG:HD2	2.35	0.41
1:A:127:ALA:O	1:A:131:LEU:CB	2.69	0.40
1:A:197:PHE:O	1:A:201:LEU:HG	2.21	0.40
1:A:225:LYS:O	1:A:228:SER:OG	2.31	0.40
1:A:797:ASP:OD1	1:A:800:LEU:HD12	2.21	0.40
1:A:913:ARG:HE	1:A:916:GLU:CD	2.24	0.40
1:A:1462:GLY:O	1:A:1464:LEU:N	2.54	0.40
1:A:1507:CYS:SG	1:A:1508:LYS:HG2	2.61	0.40
1:A:1710:LEU:HA	1:A:1710:LEU:HD23	1.68	0.40
1:A:1960:LYS:HG2	1:A:1963:GLN:OE1	2.20	0.40
1:A:2120:ARG:NE	1:A:2120:ARG:HA	2.36	0.40
1:A:2576:MSE:HE3	1:A:2788:SER:HB2	2.02	0.40
1:A:2775:TYR:N	1:A:2775:TYR:CD1	2.89	0.40
1:A:3008:TRP:HB2	1:A:3257:LYS:NZ	2.36	0.40
1:A:3024:PRO:N	1:A:3025:PRO:CD	2.84	0.40
1:A:3065:ILE:HD13	1:A:3089:LEU:HD21	2.02	0.40
1:A:3076:ALA:O	1:A:3080:LEU:HG	2.21	0.40
1:A:3503:VAL:HG13	1:A:3504:ALA:H	1.87	0.40
1:A:3636:PHE:O	1:A:3640:PHE:HB2	2.21	0.40
1:A:3664:ASN:O	1:A:3668:LEU:HB2	2.21	0.40
1:A:4059:ILE:HG21	1:A:4059:ILE:HD13	1.82	0.40
1:A:4066:LEU:HG	1:A:4075:ARG:CA	2.44	0.40
1:B:281:GLN:HG3	1:B:326:MSE:HE1	2.02	0.40
1:B:783:HIS:C	1:B:785:MSE:H	2.24	0.40
1:B:805:LEU:H	1:B:805:LEU:HG	1.71	0.40
1:B:952:GLY:C	1:B:954:GLY:H	2.25	0.40
1:B:979:VAL:O	1:B:982:GLN:HB3	2.21	0.40
1:B:1032:CYS:O	1:B:1035:GLU:N	2.54	0.40
1:B:1142:HIS:C	1:B:1144:SER:N	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:LEU:HB3	1:B:1292:LYS:H	1.65	0.40
1:B:1426:GLN:O	1:B:1430:GLU:HG3	2.21	0.40
1:B:1651:LYS:HB3	1:B:1680:ALA:HB1	2.02	0.40
1:B:2042:GLN:HG3	1:B:2046:SER:HB3	2.03	0.40
1:B:2226:PRO:HA	1:B:2229:ALA:HB3	2.02	0.40
1:B:2298:GLU:HB3	1:B:2301:GLN:HB3	2.03	0.40
1:B:2368:THR:HA	1:B:2371:PHE:CE1	2.56	0.40
1:B:2374:LEU:HD12	1:B:2374:LEU:O	2.21	0.40
1:B:2374:LEU:H	1:B:2378:PHE:HE1	1.69	0.40
1:B:2481:HIS:CE1	1:B:2485:ARG:HD3	2.56	0.40
1:B:2852:PRO:O	1:B:2855:VAL:HB	2.22	0.40
1:B:4058:VAL:HG12	1:B:4061:CYS:HB3	2.03	0.40
1:A:385:TYR:CZ	1:A:424:LEU:HD21	2.56	0.40
1:A:463:LYS:O	1:A:466:LEU:N	2.54	0.40
1:A:513:GLU:HA	1:A:653:LEU:HD21	2.03	0.40
1:A:654:ILE:CG2	1:A:729:CYS:HB2	2.51	0.40
1:A:757:LYS:HA	1:A:760:LEU:HD11	2.01	0.40
1:A:766:ALA:O	1:A:768:VAL:HG23	2.22	0.40
1:A:971:ARG:CG	1:A:972:LEU:H	2.27	0.40
1:A:979:VAL:HG21	1:A:2656:UNK:HA	2.02	0.40
1:A:1350:ASN:OD1	1:A:1405:ALA:HA	2.20	0.40
1:A:1797:LEU:HA	1:A:1797:LEU:HD23	1.83	0.40
1:A:2260:PHE:CE2	1:A:2303:LEU:HA	2.57	0.40
1:A:2296:SER:OG	1:A:2297:SER:N	2.52	0.40
1:A:2308:SER:HA	1:A:2352:HIS:NE2	2.36	0.40
1:A:2424:MSE:HA	1:A:2436:LEU:CD1	2.51	0.40
1:A:2882:ALA:HB1	1:A:2885:GLN:HB2	2.03	0.40
1:A:3052:LEU:HG	1:A:3092:LEU:CD2	2.50	0.40
1:A:3125:ARG:HA	1:A:3125:ARG:HD3	1.57	0.40
1:A:3811:THR:O	1:A:3814:ASP:N	2.54	0.40
1:A:3880:ALA:HB1	1:A:3884:LYS:NZ	2.36	0.40
1:B:82:ARG:HD2	1:B:114:VAL:HG13	2.03	0.40
1:B:86:LEU:HD13	1:B:134:LEU:CD2	2.52	0.40
1:B:104:SER:HA	1:B:107:ILE:HD12	2.02	0.40
1:B:280:SER:C	1:B:322:GLN:HG2	2.42	0.40
1:B:487:LEU:O	1:B:490:ILE:HG22	2.20	0.40
1:B:491:CYS:HB2	1:B:527:TYR:CD1	2.56	0.40
1:B:560:LEU:HA	1:B:563:LEU:CG	2.52	0.40
1:B:560:LEU:O	1:B:563:LEU:N	2.54	0.40
1:B:593:ASN:ND2	1:B:1084:ASN:HB2	2.37	0.40
1:B:934:LEU:HD21	1:B:962:TYR:OH	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1087:ARG:CD	1:B:1134:LEU:HB3	2.40	0.40
1:B:1229:CYS:SG	1:B:1282:LEU:HG	2.61	0.40
1:B:1357:LYS:HG3	1:B:1360:LYS:HZ1	1.86	0.40
1:B:1419:LEU:HA	1:B:1419:LEU:HD23	1.81	0.40
1:B:1465:HIS:HA	1:B:1469:PRO:CD	2.51	0.40
1:B:2077:HIS:O	1:B:2081:LEU:HG	2.21	0.40
1:B:2200:ALA:O	1:B:2204:GLY:N	2.55	0.40
1:B:2349:LEU:HA	1:B:2364:LEU:HD13	2.02	0.40
1:B:2480:ILE:HA	1:B:2480:ILE:HD12	1.83	0.40
1:B:2939:LEU:HD11	1:B:2994:TRP:CZ3	2.56	0.40
1:B:2960:GLU:HG2	1:B:3289:ARG:HH22	1.86	0.40
1:B:3602:ASN:O	1:B:3606:ILE:HB	2.21	0.40
1:B:3824:GLU:HG2	1:B:3882:LEU:HD21	2.03	0.40
1:B:4063:GLU:O	1:B:4066:LEU:HB2	2.20	0.40
1:A:178:LEU:HD13	1:A:197:PHE:CE1	2.57	0.40
1:A:257:ARG:N	1:A:258:PRO:HD2	2.37	0.40
1:A:294:PHE:O	1:A:297:LEU:HG	2.21	0.40
1:A:294:PHE:CG	1:A:295:GLU:N	2.89	0.40
1:A:1424:THR:HA	1:A:1427:SER:HB2	2.02	0.40
1:A:1597:LEU:HA	1:A:1600:MSE:HB2	2.03	0.40
1:A:1604:SER:OG	1:A:1605:PHE:N	2.54	0.40
1:A:2420:PHE:CZ	1:A:2424:MSE:HG3	2.57	0.40
1:A:2531:LEU:HD12	1:A:2531:LEU:HA	1.91	0.40
1:A:2960:GLU:O	1:A:2965:TYR:CD1	2.74	0.40
1:A:2960:GLU:CG	1:A:3289:ARG:HH22	2.34	0.40
1:A:2989:ALA:O	1:A:2993:PHE:N	2.49	0.40
1:A:3173:MSE:HB3	1:A:3174:ASP:H	1.58	0.40
1:A:3495:PHE:CE1	1:A:3521:ILE:HA	2.56	0.40
1:A:3762:GLN:HE21	1:A:3763:ARG:HH11	1.67	0.40
1:A:3771:MSE:SE	1:A:3991:PHE:CE1	3.24	0.40
1:A:4062:ASP:C	1:A:4066:LEU:HD22	2.42	0.40
1:B:75:SER:HA	1:B:79:ARG:HG3	2.03	0.40
1:B:480:SER:O	1:B:484:HIS:HB2	2.21	0.40
1:B:542:ASP:HA	1:B:545:LEU:HD12	2.04	0.40
1:B:661:PRO:CG	1:B:733:LEU:HA	2.51	0.40
1:B:667:TYR:O	1:B:669:LEU:N	2.39	0.40
1:B:676:ASN:O	1:B:680:ILE:HG13	2.21	0.40
1:B:932:GLU:HB3	1:B:2794:LEU:CD1	2.45	0.40
1:B:1014:LEU:HD23	1:B:1028:PHE:HE2	1.86	0.40
1:B:1741:ASP:HB3	1:B:1745:LYS:HE3	2.03	0.40
1:B:2065:ARG:CZ	1:B:2097:LEU:HD21	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2088:LEU:HG	1:B:2095:ALA:H	1.87	0.40
1:B:2957:LEU:HD22	1:B:3989:ARG:NH2	2.36	0.40
1:B:3356:ALA:CB	1:B:3384:HIS:HB3	2.51	0.40
1:B:3447:VAL:HG21	1:B:3475:TYR:CE2	2.56	0.40
1:B:3479:THR:HG23	1:B:3480:LEU:HD23	2.03	0.40
1:B:3606:ILE:HG22	1:B:3610:TYR:CE2	2.56	0.40
1:B:3896:ALA:HA	1:B:3899:ALA:HB3	2.04	0.40
1:B:3907:SER:HB2	1:B:3937:VAL:H	1.86	0.40
1:B:3964:THR:O	1:B:3967:PHE:HB3	2.21	0.40
1:B:3974:MSE:HA	1:B:3975:LYS:CB	2.47	0.40
1:B:4055:ASN:HA	1:B:4056:PRO:HD3	1.91	0.40
1:A:136:GLN:HG2	1:A:139:ARG:NH1	2.37	0.40
1:A:286:LEU:HD22	1:A:290:TYR:HD2	1.87	0.40
1:A:396:PHE:CE1	1:A:437:HIS:NE2	2.90	0.40
1:A:1056:THR:O	1:A:1059:LEU:HB2	2.22	0.40
1:A:1084:ASN:ND2	1:A:1131:ILE:HG22	2.33	0.40
1:A:1106:ILE:HA	1:A:1109:GLU:HB3	2.04	0.40
1:A:1492:ALA:HB1	1:A:1493:PRO:HD2	2.02	0.40
1:A:1524:LEU:HG	1:A:1559:PHE:CD1	2.56	0.40
1:A:1583:MSE:HB3	1:A:1584:GLN:H	1.70	0.40
1:A:2142:ILE:O	1:A:2145:PHE:HB2	2.22	0.40
1:A:2640:UNK:O	1:A:2643:UNK:N	2.54	0.40
1:A:3011:LEU:HD11	1:A:3043:TYR:C	2.42	0.40
1:A:3425:ARG:NH2	1:A:3467:ARG:HH12	2.18	0.40
1:A:3448:GLU:O	1:A:3451:LEU:HB2	2.21	0.40
1:A:3812:LEU:HD22	1:A:3928:PHE:CE1	2.57	0.40
1:A:3930:VAL:HA	1:A:3937:VAL:HA	2.02	0.40
1:B:262:LEU:HD22	1:B:306:VAL:CG1	2.51	0.40
1:B:410:MSE:HB3	1:B:410:MSE:HE3	1.84	0.40
1:B:435:LEU:HD12	1:B:436:GLU:N	2.36	0.40
1:B:484:HIS:O	1:B:488:ILE:HG23	2.22	0.40
1:B:506:GLU:O	1:B:509:ARG:HG2	2.20	0.40
1:B:544:ILE:O	1:B:546:ALA:N	2.55	0.40
1:B:611:ASN:O	1:B:614:PRO:HD2	2.20	0.40
1:B:742:GLU:HB3	1:B:783:HIS:CD2	2.56	0.40
1:B:763:THR:HB	1:B:770:LEU:HD23	2.02	0.40
1:B:1128:CYS:O	1:B:1131:ILE:HG23	2.21	0.40
1:B:1682:THR:CB	1:B:1724:MSE:SE	3.18	0.40
1:B:2007:ILE:HD13	1:B:2007:ILE:HG21	1.72	0.40
1:B:2065:ARG:HD3	1:B:2100:LEU:HD11	2.02	0.40
1:B:2485:ARG:HH11	1:B:2530:ARG:NH2	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2813:PHE:CD1	1:B:2814:SER:N	2.90	0.40
1:B:3176:MSE:HG2	1:B:3249:GLN:HG2	2.03	0.40
1:B:3230:LEU:O	1:B:3234:CYS:HB2	2.22	0.40
1:B:3564:GLN:C	1:B:3566:GLY:N	2.73	0.40
1:B:3736:LYS:HB2	1:B:3736:LYS:HE3	1.87	0.40
1:B:3860:LYS:O	1:B:3864:ARG:HG3	2.22	0.40
1:B:3959:MSE:SE	1:B:4124:TRP:CZ3	3.25	0.40
1:B:3981:TYR:HE1	1:B:4105:LYS:N	2.19	0.40
1:A:323:VAL:O	1:A:327:VAL:CB	2.66	0.40
1:A:442:GLN:OE1	1:A:457:CYS:HB3	2.22	0.40
1:A:882:SER:HB2	1:A:3892:THR:CB	2.52	0.40
1:A:1602:ASP:HB2	1:A:1810:PRO:CB	2.52	0.40
1:A:1639:LEU:HD12	1:A:1640:GLU:N	2.37	0.40
1:A:1727:ARG:O	1:A:1730:PRO:HD2	2.21	0.40
1:A:1916:ILE:HG23	1:A:1920:TYR:HE1	1.85	0.40
1:A:2065:ARG:CZ	1:A:2097:LEU:HD21	2.50	0.40
1:A:2307:MSE:O	1:A:2310:VAL:O	2.40	0.40
1:A:2325:LEU:HD12	1:A:2325:LEU:HA	1.82	0.40
1:A:2926:LEU:HB2	1:A:3123:GLN:CD	2.42	0.40
1:A:2929:LEU:HD21	1:A:3784:ARG:HB3	2.04	0.40
1:A:2960:GLU:HG2	1:A:3252:PHE:CB	2.51	0.40
1:A:3042:PRO:HA	1:A:3045:ILE:CG1	2.49	0.40
1:A:3144:PHE:CZ	1:A:3193:ILE:HD11	2.57	0.40
1:A:3251:ASN:HD21	1:A:3254:LEU:HD22	1.87	0.40
1:A:3933:GLU:C	1:A:3935:GLY:H	2.24	0.40
1:B:101:ALA:O	1:B:104:SER:OG	2.17	0.40
1:B:350:ARG:NH1	1:B:387:GLU:CD	2.74	0.40
1:B:376:ILE:HG13	1:B:381:VAL:HG21	2.03	0.40
1:B:509:ARG:HB3	1:B:729:CYS:SG	2.62	0.40
1:B:567:GLU:HB3	1:B:606:SER:HB2	2.04	0.40
1:B:869:ASN:O	1:B:873:VAL:HG23	2.21	0.40
1:B:971:ARG:CG	1:B:972:LEU:H	2.29	0.40
1:B:1017:ILE:HD12	1:B:1025:LEU:CD2	2.52	0.40
1:B:1353:PRO:HA	1:B:1358:LEU:HB3	2.03	0.40
1:B:1571:LEU:HD13	1:B:1599:GLY:O	2.21	0.40
1:B:1737:ASN:C	1:B:1739:TYR:N	2.73	0.40
1:B:1762:MSE:CB	1:B:1896:ILE:HG12	2.48	0.40
1:B:1916:ILE:HG23	1:B:1920:TYR:HE1	1.85	0.40
1:B:2379:MSE:HE3	1:B:2383:PHE:HD1	1.87	0.40
1:B:2461:PHE:CE1	1:B:2462:VAL:HG23	2.57	0.40
1:B:2894:GLU:CD	1:B:3973:PRO:HG2	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2950:LYS:O	1:B:2954:GLN:HB2	2.22	0.40
1:B:3159:ARG:C	1:B:3161:LEU:H	2.25	0.40
1:B:3605:ASN:HB3	1:B:3609:MSE:CE	2.52	0.40
1:B:3775:LEU:HB3	1:B:3781:CYS:SG	2.61	0.40
1:B:3870:SER:OG	1:B:3871:PHE:N	2.54	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 X-ray entries followed by that with respect to entries of similar resolution.

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	3631/4128 (88%)	2664 (73%)	724 (20%)	243 (7%)	1	18
1	B	3631/4128 (88%)	2657 (73%)	723 (20%)	251 (7%)	1	17
2	K	1/194 (0%)	1 (100%)	0	0	100	100
2	S	1/194 (0%)	1 (100%)	0	0	100	100
All	All	7264/8644 (84%)	5323 (73%)	1447 (20%)	494 (7%)	1	17

All (494) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	49	ALA
1	A	76	ILE
1	A	147	PHE
1	A	167	PRO
1	A	184	VAL
1	A	185	HIS
1	A	276	ALA
1	A	325	ASN
1	A	405	ASP
1	A	428	PRO

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Mol	Chain	Res	Type
1	A	430	VAL
1	A	544	ILE
1	A	546	ALA
1	A	566	ASP
1	A	635	PRO
1	A	650	SER
1	A	742	GLU
1	A	755	ALA
1	A	767	GLU
1	A	885	ALA
1	A	897	PRO
1	A	903	PRO
1	A	905	ILE
1	A	958	MSE
1	A	1001	PHE
1	A	1005	ASP
1	A	1053	PRO
1	A	1094	SER
1	A	1110	SER
1	A	1141	LYS
1	A	1143	VAL
1	A	1271	ILE
1	A	1324	PRO
1	A	1425	ALA
1	A	1583	MSE
1	A	1591	LYS
1	A	1593	VAL
1	A	1733	THR
1	A	1746	PHE
1	A	1762	MSE
1	A	1978	PHE
1	A	2003	LYS
1	A	2012	ARG
1	A	2029	SER
1	A	2030	TYR
1	A	2058	ASP
1	A	2068	ARG
1	A	2069	ARG
1	A	2074	PRO
1	A	2075	THR
1	A	2126	MSE
1	A	2155	GLU

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Mol	Chain	Res	Type
1	A	2177	ASN
1	A	2248	CYS
1	A	2261	SER
1	A	2286	PRO
1	A	2287	PRO
1	A	2290	PRO
1	A	2357	GLU
1	A	2373	PRO
1	A	2424	MSE
1	A	2464	HIS
1	A	2785	ILE
1	A	2878	ALA
1	A	2926	LEU
1	A	2927	ALA
1	A	3173	MSE
1	A	3313	SER
1	A	3345	PRO
1	A	3576	ASP
1	A	3600	PRO
1	A	3603	LYS
1	A	3688	SER
1	A	3716	HIS
1	A	3835	PRO
1	A	3933	GLU
1	B	76	ILE
1	B	167	PRO
1	B	184	VAL
1	B	185	HIS
1	B	238	MSE
1	B	260	ILE
1	B	276	ALA
1	B	395	MSE
1	B	405	ASP
1	B	430	VAL
1	B	540	MSE
1	B	546	ALA
1	B	566	ASP
1	B	635	PRO
1	B	670	LEU
1	B	742	GLU
1	B	746	ARG
1	B	767	GLU

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Mol	Chain	Res	Type
1	B	784	VAL
1	B	871	LEU
1	B	885	ALA
1	B	897	PRO
1	B	903	PRO
1	B	923	ASP
1	B	1001	PHE
1	B	1005	ASP
1	B	1073	PHE
1	B	1093	GLU
1	B	1110	SER
1	B	1119	LYS
1	B	1122	GLY
1	B	1141	LYS
1	B	1143	VAL
1	B	1214	GLU
1	B	1271	ILE
1	B	1324	PRO
1	B	1408	MSE
1	B	1591	LYS
1	B	1762	MSE
1	B	1957	ASN
1	B	1974	ASN
1	B	1978	PHE
1	B	2012	ARG
1	B	2029	SER
1	B	2058	ASP
1	B	2068	ARG
1	B	2069	ARG
1	B	2074	PRO
1	B	2075	THR
1	B	2155	GLU
1	B	2156	VAL
1	B	2177	ASN
1	B	2248	CYS
1	B	2261	SER
1	B	2263	LYS
1	B	2286	PRO
1	B	2287	PRO
1	B	2290	PRO
1	B	2373	PRO
1	B	2424	MSE

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Mol	Chain	Res	Type
1	B	2785	ILE
1	B	2878	ALA
1	B	2884	LEU
1	B	3240	MSE
1	B	3241	LYS
1	B	3313	SER
1	B	3340	ALA
1	B	3600	PRO
1	B	3603	LYS
1	B	3688	SER
1	B	3711	PRO
1	B	3835	PRO
1	A	97	GLY
1	A	169	THR
1	A	170	VAL
1	A	186	PRO
1	A	187	SER
1	A	260	ILE
1	A	602	MSE
1	A	608	PRO
1	A	746	ARG
1	A	772	ALA
1	A	871	LEU
1	A	923	ASP
1	A	957	PRO
1	A	1000	LYS
1	A	1075	ARG
1	A	1093	GLU
1	A	1112	ALA
1	A	1119	LYS
1	A	1122	GLY
1	A	1169	VAL
1	A	1214	GLU
1	A	1231	GLN
1	A	1237	ALA
1	A	1290	LEU
1	A	1590	THR
1	A	1700	THR
1	A	1724	MSE
1	A	1745	LYS
1	A	1934	LEU
1	A	1957	ASN

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Mol	Chain	Res	Type
1	A	1963	GLN
1	A	2002	LYS
1	A	2011	ALA
1	A	2016	ASN
1	A	2072	ARG
1	A	2168	LEU
1	A	2282	ALA
1	A	2423	VAL
1	A	2514	ASN
1	A	2824	LYS
1	A	2884	LEU
1	A	3311	ASN
1	A	3312	VAL
1	A	3340	ALA
1	A	3456	LEU
1	A	3575	LEU
1	A	3678	GLY
1	A	3973	PRO
1	B	325	ASN
1	B	394	GLN
1	B	428	PRO
1	B	545	LEU
1	B	654	ILE
1	B	671	SER
1	B	712	LYS
1	B	755	ALA
1	B	958	MSE
1	B	1053	PRO
1	B	1075	ARG
1	B	1094	SER
1	B	1290	LEU
1	B	1420	ARG
1	B	1425	ALA
1	B	1709	GLU
1	B	1733	THR
1	B	1811	ARG
1	B	2002	LYS
1	B	2030	TYR
1	B	2072	ARG
1	B	2168	LEU
1	B	2423	VAL
1	B	2570	PRO

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Mol	Chain	Res	Type
1	B	2801	ASP
1	B	2824	LYS
1	B	2871	LEU
1	B	2926	LEU
1	B	2944	THR
1	B	3064	PHE
1	B	3242	MSE
1	B	3345	PRO
1	B	3403	CYS
1	B	3456	LEU
1	B	3499	ILE
1	B	3678	GLY
1	B	3826	ALA
1	B	3933	GLU
1	A	28	ALA
1	A	30	ALA
1	A	48	PRO
1	A	404	ASP
1	A	425	ASP
1	A	604	PRO
1	A	628	GLU
1	A	654	ILE
1	A	1045	THR
1	A	1077	GLY
1	A	1238	GLN
1	A	1289	SER
1	A	1408	MSE
1	A	1420	ARG
1	A	1722	PHE
1	A	1811	ARG
1	A	1962	TYR
1	A	2034	SER
1	A	2096	PRO
1	A	2206	PRO
1	A	2263	LYS
1	A	2280	VAL
1	A	2371	PHE
1	A	2823	PHE
1	A	2914	ALA
1	A	3314	SER
1	A	3545	THR
1	A	3598	LYS

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Mol	Chain	Res	Type
1	A	3796	MSE
1	A	3826	ALA
1	A	3857	LEU
1	A	3978	GLY
1	B	27	ALA
1	B	48	PRO
1	B	101	ALA
1	B	125	ILE
1	B	144	MSE
1	B	186	PRO
1	B	257	ARG
1	B	368	LEU
1	B	404	ASP
1	B	425	ASP
1	B	513	GLU
1	B	650	SER
1	B	957	PRO
1	B	1215	GLU
1	B	1231	GLN
1	B	1237	ALA
1	B	1238	GLN
1	B	1492	ALA
1	B	1565	GLU
1	B	1583	MSE
1	B	1700	THR
1	B	1722	PHE
1	B	1917	LYS
1	B	2003	LYS
1	B	2011	ALA
1	B	2080	VAL
1	B	2096	PRO
1	B	2206	PRO
1	B	2357	GLU
1	B	2371	PHE
1	B	2465	PRO
1	B	2514	ASN
1	B	2575	PRO
1	B	2795	GLN
1	B	2823	PHE
1	B	2927	ALA
1	B	3174	ASP
1	B	3311	ASN

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Mol	Chain	Res	Type
1	B	3601	VAL
1	B	3716	HIS
1	B	3796	MSE
1	B	4120	THR
1	A	27	ALA
1	A	125	ILE
1	A	257	ARG
1	A	277	LEU
1	A	515	ARG
1	A	543	SER
1	A	712	LYS
1	A	784	VAL
1	A	878	GLU
1	A	949	PRO
1	A	1073	PHE
1	A	1463	LEU
1	A	1492	ALA
1	A	1565	GLU
1	A	1647	ALA
1	A	1723	PRO
1	A	2010	GLU
1	A	2080	VAL
1	A	2176	ASN
1	A	2542	LEU
1	A	2795	GLN
1	A	2871	LEU
1	A	2873	PRO
1	A	2879	GLY
1	A	3064	PHE
1	A	3240	MSE
1	A	3443	PRO
1	A	3472	ILE
1	A	3760	GLN
1	A	3860	LYS
1	B	49	ALA
1	B	69	VAL
1	B	169	THR
1	B	277	LEU
1	B	411	PRO
1	B	604	PRO
1	B	910	PHE
1	B	947	GLN

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Mol	Chain	Res	Type
1	B	1000	LYS
1	B	1045	THR
1	B	1069	HIS
1	B	1077	GLY
1	B	1112	ALA
1	B	1348	LEU
1	B	1590	THR
1	B	1723	PRO
1	B	1757	MSE
1	B	1891	ALA
1	B	1895	LYS
1	B	1934	LEU
1	B	1962	TYR
1	B	1987	ARG
1	B	2098	THR
1	B	2464	HIS
1	B	3075	LYS
1	B	3486	GLU
1	B	3497	SER
1	B	3637	GLY
1	B	3654	MSE
1	B	3720	ALA
1	B	3760	GLN
1	B	3847	SER
1	B	3860	LYS
1	B	3973	PRO
1	A	368	LEU
1	A	540	MSE
1	A	598	PRO
1	A	634	LEU
1	A	900	GLU
1	A	1069	HIS
1	A	1364	CYS
1	A	1510	LEU
1	A	1891	ALA
1	A	1895	LYS
1	A	2448	PRO
1	A	2465	PRO
1	A	2569	SER
1	A	2805	ALA
1	A	3091	LEU
1	A	3654	MSE

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Mol	Chain	Res	Type
1	A	3720	ALA
1	A	3732	LEU
1	A	4058	VAL
1	B	30	ALA
1	B	74	ASN
1	B	745	VAL
1	B	763	THR
1	B	878	GLU
1	B	997	ASN
1	B	1071	ASN
1	B	1169	VAL
1	B	1247	PRO
1	B	1346	THR
1	B	1423	ILE
1	B	1593	VAL
1	B	1631	SER
1	B	1701	SER
1	B	1707	LEU
1	B	1812	LEU
1	B	1963	GLN
1	B	2016	ASN
1	B	2280	VAL
1	B	2289	ASP
1	B	2292	CYS
1	B	2879	GLY
1	B	2914	ALA
1	B	3129	LEU
1	B	3243	ILE
1	B	3312	VAL
1	B	3472	ILE
1	B	3978	GLY
1	A	74	ASN
1	A	298	LEU
1	A	627	VAL
1	A	763	THR
1	A	1520	ALA
1	A	2289	ASP
1	A	2942	ILE
1	A	3117	ILE
1	A	3317	SER
1	A	3499	ILE
1	A	3711	PRO

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Mol	Chain	Res	Type
1	A	3981	TYR
1	B	187	SER
1	B	298	LEU
1	B	323	VAL
1	B	427	VAL
1	B	627	VAL
1	B	718	MSE
1	B	748	TYR
1	B	1364	CYS
1	B	1738	ASN
1	B	2291	GLN
1	B	2873	PRO
1	B	2976	LEU
1	B	3443	PRO
1	B	4068	HIS
1	A	256	ILE
1	A	411	PRO
1	A	553	VAL
1	A	1637	SER
1	A	2076	VAL
1	A	2505	VAL
1	A	2552	VAL
1	A	2575	PRO
1	A	3025	PRO
1	A	3601	VAL
1	B	50	VAL
1	B	67	VAL
1	B	170	VAL
1	B	2552	VAL
1	B	4058	VAL
1	A	50	VAL
1	A	69	VAL
1	A	1382	ILE
1	A	2156	VAL
1	A	3174	ASP
1	B	948	MSE
1	B	1382	ILE
1	B	2448	PRO
1	B	3331	GLY
1	A	67	VAL
1	A	381	VAL
1	A	447	PRO

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Mol	Chain	Res	Type
1	A	2059	PRO
1	A	2230	VAL
1	A	2324	GLY
1	A	3919	GLY
1	B	381	VAL
1	B	495	VAL
1	B	2230	VAL
1	B	2569	SER
1	B	3919	GLY
1	A	1247	PRO
1	A	1729	PHE
1	B	174	VAL
1	B	544	ILE
1	B	884	VAL
1	B	905	ILE
1	B	1637	SER
1	B	2804	ILE
1	A	1468	LEU
1	A	3178	ILE
1	B	256	ILE
1	B	2802	PRO
1	B	2942	ILE

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	3259/3384 (96%)	3089 (95%)	170 (5%)	23	50
1	B	3259/3384 (96%)	3084 (95%)	175 (5%)	22	50
2	K	-	1 (100%)	0	100	100
2	S	-	1 (100%)	0	100	100
All	All	6520/6768 (96%)	6175 (95%)	345 (5%)	22	50

All (345) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	143	LEU
1	A	156	PHE
1	A	274	LEU
1	A	277	LEU
1	A	294	PHE
1	A	326	MSE
1	A	342	MSE
1	A	360	SER
1	A	361	ILE
1	A	368	LEU
1	A	392	CYS
1	A	393	LYS
1	A	396	PHE
1	A	405	ASP
1	A	420	VAL
1	A	444	ASP
1	A	445	SER
1	A	446	PHE
1	A	556	SER
1	A	559	SER
1	A	564	LEU
1	A	595	ASP
1	A	603	ILE
1	A	612	LEU
1	A	620	PHE
1	A	625	ASN
1	A	630	CYS
1	A	631	ARG
1	A	754	MSE
1	A	763	THR
1	A	793	LEU
1	A	858	MSE
1	A	866	ILE
1	A	879	MSE
1	A	884	VAL
1	A	891	ARG
1	A	898	PHE
1	A	907	LEU
1	A	924	ARG
1	A	939	MSE
1	A	963	LYS
1	A	965	THR
1	A	966	PHE

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Mol	Chain	Res	Type
1	A	970	LEU
1	A	975	ASP
1	A	983	LEU
1	A	988	VAL
1	A	989	MSE
1	A	993	HIS
1	A	1005	ASP
1	A	1010	LEU
1	A	1014	LEU
1	A	1017	ILE
1	A	1024	THR
1	A	1068	LEU
1	A	1070	PRO
1	A	1105	VAL
1	A	1107	TYR
1	A	1108	MSE
1	A	1121	LEU
1	A	1131	ILE
1	A	1180	GLN
1	A	1288	SER
1	A	1291	LEU
1	A	1347	THR
1	A	1364	CYS
1	A	1372	LEU
1	A	1403	MSE
1	A	1430	GLU
1	A	1444	ASP
1	A	1507	CYS
1	A	1526	GLU
1	A	1583	MSE
1	A	1590	THR
1	A	1592	MSE
1	A	1597	LEU
1	A	1600	MSE
1	A	1640	GLU
1	A	1643	MSE
1	A	1721	HIS
1	A	1737	ASN
1	A	1743	MSE
1	A	1757	MSE
1	A	1758	LEU
1	A	1759	LEU

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Mol	Chain	Res	Type
1	A	1761	LEU
1	A	1812	LEU
1	A	1883	ARG
1	A	1886	LYS
1	A	1919	CYS
1	A	1942	CYS
1	A	1947	CYS
1	A	1950	SER
1	A	1959	LEU
1	A	1986	ARG
1	A	1993	GLU
1	A	1998	MSE
1	A	2012	ARG
1	A	2104	MSE
1	A	2155	GLU
1	A	2189	ILE
1	A	2239	LYS
1	A	2241	LEU
1	A	2245	TRP
1	A	2277	LEU
1	A	2287	PRO
1	A	2307	MSE
1	A	2330	VAL
1	A	2337	LEU
1	A	2338	GLU
1	A	2355	THR
1	A	2362	VAL
1	A	2370	SER
1	A	2402	LEU
1	A	2404	ARG
1	A	2473	MSE
1	A	2555	LEU
1	A	2568	MSE
1	A	2574	ASN
1	A	2788	SER
1	A	2886	GLN
1	A	2890	ILE
1	A	2921	LEU
1	A	2943	PHE
1	A	2991	LYS
1	A	3011	LEU
1	A	3050	LYS

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Mol	Chain	Res	Type
1	A	3051	LEU
1	A	3084	GLN
1	A	3145	ILE
1	A	3173	MSE
1	A	3256	MSE
1	A	3278	GLN
1	A	3283	LEU
1	A	3326	GLN
1	A	3416	LEU
1	A	3451	LEU
1	A	3481	SER
1	A	3509	ASP
1	A	3518	VAL
1	A	3575	LEU
1	A	3636	PHE
1	A	3641	ASP
1	A	3670	MSE
1	A	3687	MSE
1	A	3706	ASP
1	A	3729	MSE
1	A	3771	MSE
1	A	3781	CYS
1	A	3810	VAL
1	A	3811	THR
1	A	3813	LYS
1	A	3824	GLU
1	A	3831	ASP
1	A	3846	MSE
1	A	3883	LEU
1	A	3893	SER
1	A	3895	GLU
1	A	3926	ASN
1	A	3928	PHE
1	A	3929	MSE
1	A	3944	HIS
1	A	3959	MSE
1	A	3963	LEU
1	A	3964	THR
1	A	3967	PHE
1	A	4066	LEU
1	A	4078	VAL
1	A	4104	VAL

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Mol	Chain	Res	Type
1	A	4128	MSE
1	B	42	CYS
1	B	111	CYS
1	B	143	LEU
1	B	145	ASP
1	B	156	PHE
1	B	274	LEU
1	B	298	LEU
1	B	322	GLN
1	B	360	SER
1	B	361	ILE
1	B	368	LEU
1	B	389	ILE
1	B	393	LYS
1	B	395	MSE
1	B	396	PHE
1	B	405	ASP
1	B	408	TYR
1	B	410	MSE
1	B	420	VAL
1	B	444	ASP
1	B	446	PHE
1	B	487	LEU
1	B	491	CYS
1	B	559	SER
1	B	564	LEU
1	B	603	ILE
1	B	612	LEU
1	B	620	PHE
1	B	633	ILE
1	B	653	LEU
1	B	666	PHE
1	B	733	LEU
1	B	741	ILE
1	B	763	THR
1	B	793	LEU
1	B	865	GLN
1	B	898	PHE
1	B	901	MSE
1	B	924	ARG
1	B	963	LYS
1	B	965	THR

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Mol	Chain	Res	Type
1	B	966	PHE
1	B	970	LEU
1	B	989	MSE
1	B	993	HIS
1	B	1000	LYS
1	B	1005	ASP
1	B	1009	LEU
1	B	1010	LEU
1	B	1017	ILE
1	B	1024	THR
1	B	1036	PHE
1	B	1070	PRO
1	B	1108	MSE
1	B	1121	LEU
1	B	1131	ILE
1	B	1287	GLN
1	B	1347	THR
1	B	1354	GLU
1	B	1372	LEU
1	B	1392	MSE
1	B	1399	CYS
1	B	1430	GLU
1	B	1471	GLN
1	B	1507	CYS
1	B	1583	MSE
1	B	1590	THR
1	B	1597	LEU
1	B	1602	ASP
1	B	1639	LEU
1	B	1725	GLN
1	B	1733	THR
1	B	1743	MSE
1	B	1758	LEU
1	B	1759	LEU
1	B	1761	LEU
1	B	1802	TYR
1	B	1812	LEU
1	B	1819	PHE
1	B	1858	LEU
1	B	1909	ASN
1	B	1927	MSE
1	B	1930	GLU

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Mol	Chain	Res	Type
1	B	1942	CYS
1	B	1950	SER
1	B	1959	LEU
1	B	1973	LYS
1	B	1974	ASN
1	B	1976	LEU
1	B	1986	ARG
1	B	1993	GLU
1	B	1998	MSE
1	B	1999	GLU
1	B	2012	ARG
1	B	2023	SER
1	B	2104	MSE
1	B	2126	MSE
1	B	2155	GLU
1	B	2239	LYS
1	B	2245	TRP
1	B	2265	PRO
1	B	2277	LEU
1	B	2287	PRO
1	B	2325	LEU
1	B	2330	VAL
1	B	2338	GLU
1	B	2355	THR
1	B	2362	VAL
1	B	2370	SER
1	B	2374	LEU
1	B	2402	LEU
1	B	2481	HIS
1	B	2555	LEU
1	B	2559	THR
1	B	2576	MSE
1	B	2776	ARG
1	B	2788	SER
1	B	2820	MSE
1	B	2865	HIS
1	B	2886	GLN
1	B	2890	ILE
1	B	2921	LEU
1	B	2929	LEU
1	B	2943	PHE
1	B	2991	LYS

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Mol	Chain	Res	Type
1	B	3044	MSE
1	B	3050	LYS
1	B	3051	LEU
1	B	3058	ASP
1	B	3118	ASP
1	B	3120	LEU
1	B	3133	GLN
1	B	3145	ILE
1	B	3155	VAL
1	B	3238	MSE
1	B	3242	MSE
1	B	3258	LEU
1	B	3282	ARG
1	B	3283	LEU
1	B	3311	ASN
1	B	3397	GLN
1	B	3403	CYS
1	B	3416	LEU
1	B	3450	MSE
1	B	3451	LEU
1	B	3467	ARG
1	B	3509	ASP
1	B	3518	VAL
1	B	3636	PHE
1	B	3641	ASP
1	B	3763	ARG
1	B	3782	SER
1	B	3796	MSE
1	B	3810	VAL
1	B	3813	LYS
1	B	3820	MSE
1	B	3835	PRO
1	B	3846	MSE
1	B	3856	MSE
1	B	3858	MSE
1	B	3883	LEU
1	B	3895	GLU
1	B	3904	PHE
1	B	3926	ASN
1	B	3944	HIS
1	B	3959	MSE
1	B	3963	LEU

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Mol	Chain	Res	Type
1	B	3970	LEU
1	B	4016	PHE
1	B	4020	MSE
1	B	4029	GLN
1	B	4066	LEU
1	B	4090	ARG
1	B	4104	VAL
1	B	4119	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (68) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	233	ASN
1	A	334	HIS
1	A	508	HIS
1	A	783	HIS
1	A	1069	HIS
1	A	1083	ASN
1	A	1146	ASN
1	A	1385	ASN
1	A	1418	HIS
1	A	1457	GLN
1	A	1459	HIS
1	A	1476	HIS
1	A	1574	ASN
1	A	1687	HIS
1	A	1725	GLN
1	A	1754	GLN
1	A	1890	HIS
1	A	2170	GLN
1	A	2177	ASN
1	A	2183	HIS
1	A	2234	ASN
1	A	2426	HIS
1	A	2518	GLN
1	A	3003	ASN
1	A	3081	HIS
1	A	3122	HIS
1	A	3251	ASN
1	A	3291	GLN
1	A	3319	ASN
1	A	3501	HIS

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Mol	Chain	Res	Type
1	A	3524	ASN
1	A	3762	GLN
1	A	3927	ASN
1	A	3951	GLN
1	A	4068	HIS
1	B	390	GLN
1	B	409	GLN
1	B	437	HIS
1	B	442	GLN
1	B	508	HIS
1	B	593	ASN
1	B	990	GLN
1	B	993	HIS
1	B	1055	ASN
1	B	1238	GLN
1	B	1350	ASN
1	B	1476	HIS
1	B	1574	ASN
1	B	1687	HIS
1	B	1866	GLN
1	B	1890	HIS
1	B	1897	ASN
1	B	1974	ASN
1	B	2077	HIS
1	B	2177	ASN
1	B	2348	GLN
1	B	2365	ASN
1	B	2481	HIS
1	B	2518	GLN
1	B	3251	ASN
1	B	3459	ASN
1	B	3494	GLN
1	B	3524	ASN
1	B	3772	ASN
1	B	3908	HIS
1	B	3926	ASN
1	B	4018	GLN
1	B	4110	GLN

5.3.3 RNA ⓘ

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	K	1
2	S	1
1	B	1
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	133:UNK	C	201:UNK	N	46.74
1	S	133:UNK	C	201:UNK	N	41.40
1	B	3794:VAL	C	3795:PRO	N	1.18
1	A	1069:HIS	C	1070:PRO	N	1.15

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	3551/4128 (86%)	0.25	220 (6%) 20 17	83, 248, 332, 443	0
1	B	3551/4128 (86%)	0.30	240 (6%) 17 14	117, 251, 358, 507	0
2	K	0/194	-	-	-	-
2	S	0/194	-	-	-	-
All	All	7102/8644 (82%)	0.28	460 (6%) 18 15	83, 249, 343, 507	0

All (460) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	122	LYS	12.8
1	B	31	GLY	9.6
1	B	1355	GLY	9.6
1	B	145	ASP	9.1
1	A	126	PRO	8.7
1	A	123	CYS	8.6
1	A	1290	LEU	8.2
1	B	586	GLN	8.2
1	A	1286	ALA	8.1
1	A	1763	THR	7.7
1	B	3026	ASP	7.5
1	A	1287	GLN	7.5
1	A	121	ALA	7.4
1	B	30	ALA	7.2
1	B	3358	ARG	6.9
1	A	1289	SER	6.7
1	B	215	PRO	6.7
1	B	3023	ASN	6.6
1	A	1523	GLY	6.6
1	A	2910	VAL	6.4
1	B	24	ARG	6.4
1	A	1285	GLU	6.4

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Mol	Chain	Res	Type	RSRZ
1	A	215	PRO	6.4
1	A	589	GLY	6.3
1	A	953	GLN	6.3
1	B	25	CYS	6.2
1	B	153	PHE	6.2
1	B	3029	LYS	6.2
1	B	2263	LYS	6.1
1	A	590	GLU	6.1
1	B	1357	LYS	6.1
1	B	3025	PRO	6.0
1	B	3033	GLU	6.0
1	B	3028	ASN	6.0
1	A	2906	PRO	5.9
1	B	3027	LEU	5.9
1	B	22	ALA	5.8
1	A	1761	LEU	5.7
1	A	2898	LEU	5.6
1	B	100	ILE	5.6
1	B	3515	GLN	5.6
1	A	125	ILE	5.5
1	A	2202	PRO	5.5
1	A	124	LYS	5.4
1	A	2113	GLY	5.3
1	A	2905	LEU	5.3
1	B	280	SER	5.1
1	A	3152	SER	5.0
1	A	503	SER	5.0
1	A	3403	CYS	4.9
1	B	32	HIS	4.9
1	B	3359	ILE	4.9
1	A	1288	SER	4.9
1	A	3029	LYS	4.9
1	B	3153	SER	4.8
1	A	2897	LEU	4.7
1	B	26	GLY	4.7
1	B	3528	ALA	4.7
1	B	2900	LEU	4.7
1	B	2430	GLU	4.6
1	B	3675	LYS	4.6
1	A	950	GLU	4.6
1	A	237	SER	4.6
1	A	2900	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
1	B	23	ASP	4.6
1	B	1044	ILE	4.6
1	B	10	CYS	4.5
1	B	253	LEU	4.5
1	A	3402	SER	4.4
1	B	1761	LEU	4.4
1	A	3510	GLN	4.4
1	B	125	ILE	4.4
1	A	2250	SER	4.4
1	A	127	ALA	4.3
1	B	3152	SER	4.3
1	B	495	VAL	4.3
1	A	2183	HIS	4.3
1	A	2821	ASP	4.3
1	B	1763	THR	4.3
1	A	3311	ASN	4.3
1	A	670	LEU	4.3
1	A	951	GLY	4.3
1	B	3976	GLU	4.3
1	B	257	ARG	4.3
1	A	3308	ASP	4.2
1	B	3499	ILE	4.2
1	B	3024	PRO	4.1
1	B	3020	ASP	4.1
1	B	3406	ALA	4.1
1	B	1286	ALA	4.1
1	B	72	SER	4.1
1	B	3074	GLN	4.1
1	A	2985	GLU	4.1
1	B	279	ALA	4.1
1	A	1284	THR	4.1
1	B	1856	THR	4.1
1	B	582	THR	4.1
1	B	126	PRO	4.0
1	A	280	SER	4.0
1	A	216	LYS	4.0
1	A	128	LEU	4.0
1	A	2868	LEU	4.0
1	A	2203	THR	4.0
1	B	3623	PRO	3.9
1	A	952	GLY	3.9
1	B	216	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	1589	ASN	3.9
1	A	3272	TRP	3.9
1	B	123	CYS	3.9
1	A	3478	GLU	3.8
1	A	2782	ASP	3.8
1	A	3509	ASP	3.8
1	B	27	ALA	3.8
1	A	171	LEU	3.8
1	A	897	PRO	3.8
1	B	2116	ASP	3.8
1	A	3357	ARG	3.8
1	A	3196	LYS	3.8
1	A	671	SER	3.7
1	A	1489	LYS	3.7
1	B	122	LYS	3.7
1	B	1354	GLU	3.7
1	B	3676	PRO	3.7
1	A	3150	ASN	3.6
1	A	956	PRO	3.6
1	A	2984	GLY	3.6
1	A	2986	PRO	3.6
1	A	3269	ARG	3.6
1	A	3317	SER	3.6
1	B	1043	GLN	3.6
1	B	4039	TYR	3.6
1	A	588	VAL	3.6
1	A	1357	LYS	3.5
1	A	3199	PRO	3.5
1	A	591	GLN	3.5
1	A	1673	THR	3.5
1	B	154	SER	3.5
1	A	3358	ARG	3.5
1	A	3149	GLY	3.5
1	B	3405	PRO	3.5
1	B	116	THR	3.5
1	A	153	PHE	3.5
1	B	542	ASP	3.5
1	A	3515	GLN	3.5
1	B	157	TYR	3.4
1	B	1287	GLN	3.4
1	A	506	GLU	3.4
1	A	2201	THR	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	1671	VAL	3.4
1	B	2942	ILE	3.4
1	B	1356	TRP	3.4
1	A	214	GLU	3.3
1	B	2175	GLU	3.3
1	B	628	GLU	3.3
1	A	129	ASP	3.3
1	B	2067	ARG	3.3
1	B	668	LYS	3.3
1	B	3936	GLY	3.3
1	A	1526	GLU	3.3
1	B	2981	TRP	3.3
1	A	2978	LYS	3.3
1	A	2527	HIS	3.3
1	B	631	ARG	3.2
1	B	190	ILE	3.2
1	B	213	ARG	3.2
1	B	3056	GLU	3.2
1	B	2980	ASP	3.2
1	A	1436	LEU	3.1
1	B	3550	LYS	3.1
1	B	3035	PHE	3.1
1	B	4082	ARG	3.1
1	B	3355	LYS	3.1
1	A	1586	SER	3.1
1	A	739	ASN	3.1
1	A	2867	ALA	3.1
1	A	2308	SER	3.1
1	B	2464	HIS	3.1
1	B	3514	VAL	3.1
1	B	92	PHE	3.1
1	B	3674	SER	3.1
1	A	2988	GLU	3.1
1	A	892	LEU	3.1
1	B	3510	GLN	3.1
1	B	3624	GLY	3.1
1	A	2197	THR	3.1
1	B	1290	LEU	3.0
1	B	2264	ASP	3.0
1	A	3098	ARG	3.0
1	B	2090	ARG	3.0
1	A	3153	SER	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	1435	ASN	3.0
1	A	2068	ARG	3.0
1	B	14	ARG	3.0
1	A	157	TYR	3.0
1	A	2444	PRO	3.0
1	B	3809	THR	3.0
1	A	252	VAL	3.0
1	B	265	TYR	3.0
1	B	3540	TYR	3.0
1	A	3102	TYR	3.0
1	B	104	SER	3.0
1	B	2533	SER	2.9
1	B	627	VAL	2.9
1	B	1672	PHE	2.9
1	A	604	PRO	2.9
1	A	2267	SER	2.9
1	A	120	ALA	2.9
1	A	2980	ASP	2.9
1	A	3700	GLU	2.9
1	A	2907	ALA	2.9
1	B	86	LEU	2.9
1	B	103	TYR	2.9
1	B	101	ALA	2.9
1	A	505	SER	2.9
1	B	2822	LYS	2.9
1	A	213	ARG	2.9
1	A	1488	TYR	2.9
1	A	3026	ASP	2.9
1	B	124	LYS	2.8
1	A	355	ASN	2.8
1	A	809	THR	2.8
1	A	18	THR	2.8
1	B	1437	TYR	2.8
1	A	1604	SER	2.8
1	A	896	VAL	2.8
1	A	3976	GLU	2.8
1	B	950	GLU	2.8
1	A	81	CYS	2.8
1	B	585	ILE	2.8
1	B	3070	HIS	2.8
1	A	3273	LEU	2.8
1	A	259	GLN	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	3841	ASP	2.8
1	A	2496	GLN	2.8
1	B	908	ASP	2.8
1	B	3830	SER	2.8
1	B	262	LEU	2.8
1	B	2078	ASP	2.8
1	B	3822	GLN	2.8
1	B	3879	PRO	2.8
1	B	472	GLY	2.8
1	A	2899	ARG	2.8
1	B	35	ILE	2.8
1	A	1522	GLY	2.7
1	B	2427	ARG	2.7
1	B	3341	LEU	2.7
1	B	21	ALA	2.7
1	A	513	GLU	2.7
1	A	781	ASP	2.7
1	B	71	LYS	2.7
1	A	3633	ILE	2.7
1	B	1548	GLY	2.7
1	B	1822	ARG	2.7
1	B	2411	LEU	2.7
1	A	3312	VAL	2.7
1	A	3624	GLY	2.7
1	B	34	LEU	2.7
1	B	330	ASN	2.7
1	B	59	PHE	2.7
1	B	3486	GLU	2.7
1	A	1699	PHE	2.7
1	A	2975	ALA	2.7
1	A	3828	TYR	2.7
1	B	115	TYR	2.7
1	B	191	ASN	2.7
1	A	3404	GLY	2.7
1	B	2930	TYR	2.7
1	A	3318	LYS	2.6
1	B	2412	TYR	2.6
1	A	782	ARG	2.6
1	B	252	VAL	2.6
1	B	2898	LEU	2.6
1	B	2176	ASN	2.6
1	B	2390	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	1698	PHE	2.6
1	A	2208	ASP	2.6
1	B	3432	SER	2.6
1	B	1101	PHE	2.6
1	B	2465	PRO	2.6
1	B	146	GLU	2.6
1	B	3553	GLU	2.6
1	A	3603	LYS	2.6
1	B	3580	ASN	2.6
1	B	4115	ASN	2.6
1	B	2899	ARG	2.6
1	A	890	LYS	2.6
1	B	38	LEU	2.6
1	A	2421	VAL	2.5
1	B	4081	ALA	2.5
1	B	3875	GLU	2.5
1	A	3875	GLU	2.5
1	B	1732	GLY	2.5
1	A	1558	TYR	2.5
1	B	1816	ARG	2.5
1	B	3828	TYR	2.5
1	A	3443	PRO	2.5
1	B	183	GLU	2.5
1	B	11	SER	2.5
1	B	1284	THR	2.5
1	B	2081	LEU	2.5
1	A	1907	GLU	2.5
1	B	1002	GLU	2.5
1	B	1799	GLU	2.5
1	A	2781	PRO	2.5
1	B	877	ASP	2.5
1	B	3549	HIS	2.5
1	B	1426	GLN	2.5
1	B	99	LYS	2.4
1	A	2263	LYS	2.4
1	A	3393	GLU	2.4
1	B	494	PRO	2.4
1	A	543	SER	2.4
1	A	62	ASP	2.4
1	A	3695	LEU	2.4
1	B	2461	PHE	2.4
1	A	3698	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	1509	GLN	2.4
1	A	2259	LYS	2.4
1	A	80	GLU	2.4
1	A	2114	GLU	2.4
1	B	1255	CYS	2.4
1	B	2905	LEU	2.4
1	A	593	ASN	2.4
1	A	3629	ARG	2.4
1	B	20	SER	2.4
1	B	2084	GLU	2.4
1	A	2893	LEU	2.4
1	B	68	PHE	2.4
1	B	2821	ASP	2.4
1	A	3627	ALA	2.4
1	A	3159	ARG	2.4
1	A	262	LEU	2.4
1	B	1589	ASN	2.4
1	A	3300	VAL	2.4
1	B	3105	ASN	2.4
1	B	3346	ALA	2.3
1	B	583	LEU	2.3
1	A	3879	PRO	2.3
1	B	3380	ARG	2.3
1	A	587	THR	2.3
1	B	2904	GLU	2.3
1	A	799	TYR	2.3
1	A	3610	TYR	2.3
1	A	2461	PHE	2.3
1	A	3326	GLN	2.3
1	B	3500	SER	2.3
1	A	2979	GLN	2.3
1	B	136	GLN	2.3
1	A	2869	LEU	2.3
1	A	4092	GLN	2.3
1	A	3052	LEU	2.3
1	B	2077	HIS	2.3
1	A	119	ARG	2.3
1	B	82	ARG	2.3
1	B	2488	GLU	2.3
1	A	2195	SER	2.3
1	B	60	SER	2.3
1	B	1051	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	194	GLU	2.3
1	A	2440	TYR	2.3
1	B	2486	ASP	2.3
1	A	3708	ARG	2.3
1	B	1350	ASN	2.3
1	B	1138	ILE	2.3
1	B	3546	SER	2.3
1	B	28	ALA	2.3
1	A	2492	ASP	2.3
1	A	1788	ARG	2.3
1	A	2909	ARG	2.3
1	B	2943	PHE	2.3
1	B	150	GLY	2.2
1	A	3105	ASN	2.2
1	A	27	ALA	2.2
1	B	516	THR	2.2
1	B	2184	TYR	2.2
1	A	2464	HIS	2.2
1	A	3405	PRO	2.2
1	B	167	PRO	2.2
1	A	1277	GLY	2.2
1	A	2939	LEU	2.2
1	B	1020	PRO	2.2
1	B	2491	THR	2.2
1	B	2986	PRO	2.2
1	A	514	VAL	2.2
1	A	580	ASP	2.2
1	B	2391	GLY	2.2
1	A	2067	ARG	2.2
1	B	2201	THR	2.2
1	B	3551	ASN	2.2
1	B	47	SER	2.2
1	B	4118	GLY	2.2
1	A	356	ASN	2.2
1	A	585	ILE	2.2
1	A	3630	ARG	2.2
1	B	63	PHE	2.2
1	B	81	CYS	2.2
1	A	3406	ALA	2.2
1	B	3199	PRO	2.2
1	B	3350	GLU	2.2
1	A	3007	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	2333	ARG	2.2
1	B	867	ASN	2.2
1	A	3382	PHE	2.2
1	B	117	LYS	2.2
1	B	738	HIS	2.2
1	B	3489	SER	2.2
1	A	3310	ASN	2.2
1	B	1512	SER	2.2
1	A	3696	ARG	2.2
1	A	582	THR	2.2
1	B	341	PHE	2.1
1	A	1506	SER	2.1
1	A	3058	ASP	2.1
1	B	3407	ALA	2.1
1	B	95	LYS	2.1
1	A	3197	LEU	2.1
1	A	3400	SER	2.1
1	B	1675	TYR	2.1
1	A	3493	TRP	2.1
1	A	672	ILE	2.1
1	A	2112	GLN	2.1
1	A	3849	LYS	2.1
1	A	3252	PHE	2.1
1	A	3476	PRO	2.1
1	B	1818	SER	2.1
1	B	3373	VAL	2.1
1	A	3439	LEU	2.1
1	B	579	LEU	2.1
1	B	1052	SER	2.1
1	A	1088	GLU	2.1
1	B	676	ASN	2.1
1	B	1442	GLN	2.1
1	A	2082	GLU	2.1
1	B	132	ILE	2.1
1	B	1031	ARG	2.1
1	B	37	GLY	2.1
1	B	3527	GLN	2.1
1	B	1471	GLN	2.1
1	B	2308	SER	2.1
1	A	61	ARG	2.0
1	B	3625	LEU	2.0
1	A	803	SER	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	3104	GLN	2.0
1	B	29	LEU	2.0
1	B	2174	SER	2.0
1	A	1437	TYR	2.0
1	A	63	PHE	2.0
1	A	3699	LEU	2.0
1	A	130	LEU	2.0
1	A	1463	LEU	2.0
1	B	1360	LYS	2.0
1	A	3604	LYS	2.0
1	B	3975	LYS	2.0
1	B	79	ARG	2.0
1	B	3617	LEU	2.0
1	B	258	PRO	2.0
1	A	2430	GLU	2.0
1	A	4093	GLU	2.0
1	B	868	LYS	2.0
1	B	3622	ALA	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.