



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:13 PM UTC

PDB ID : 5M59 / pdb_00005m59
Title : Crystal structure of Chaetomium thermophilum Brr2 helicase core in complex with Prp8 Jab1 domain
Authors : Absmeier, E.; Becke, C.; Wollenhaupt, J.; Santos, K.F.; Wahl, M.C.
Deposited on : 2016-10-20
Resolution : 3.20 Å(reported)

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

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

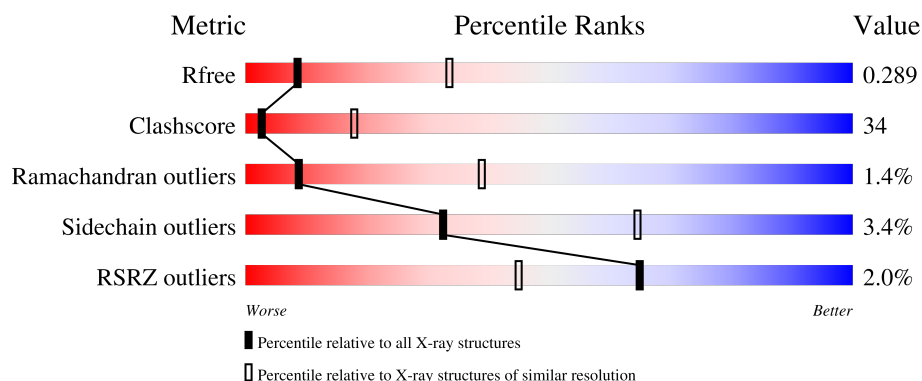
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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	B	276	2% 45% 48% • •
1	D	276	48% 45% • 5%
1	F	276	2% 49% 45% • •
1	H	276	2% 46% 48% • •
2	A	1772	2% 46% 49% • •

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Mol	Chain	Length	Quality of chain
2	C	1772	
2	E	1772	
2	G	1772	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ACT	E	2201	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 63679 atoms, of which 12 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 Putative pre-mRNA splicing factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	266	Total	C	N	O	S	0	0	0
			2116	1352	362	392	10			
1	D	263	Total	C	N	O	S	0	0	0
			2093	1339	359	385	10			
1	F	265	Total	C	N	O	S	0	0	0
			2116	1353	362	391	10			
1	H	267	Total	C	N	O	S	0	0	0
			2125	1358	364	393	10			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	2034	GLY	-	expression tag	UNP G0SFL3
B	2035	ALA	-	expression tag	UNP G0SFL3
B	2036	MET	-	expression tag	UNP G0SFL3
D	2034	GLY	-	expression tag	UNP G0SFL3
D	2035	ALA	-	expression tag	UNP G0SFL3
D	2036	MET	-	expression tag	UNP G0SFL3
F	2034	GLY	-	expression tag	UNP G0SFL3
F	2035	ALA	-	expression tag	UNP G0SFL3
F	2036	MET	-	expression tag	UNP G0SFL3
H	2034	GLY	-	expression tag	UNP G0SFL3
H	2035	ALA	-	expression tag	UNP G0SFL3
H	2036	MET	-	expression tag	UNP G0SFL3

- Molecule 2 is a protein called Pre-mRNA splicing helicase-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	1738	Total	C	N	O	S	0	0	0
			13917	8891	2369	2592	65			
2	C	1702	Total	C	N	O	S	0	0	0
			13628	8709	2319	2536	64			

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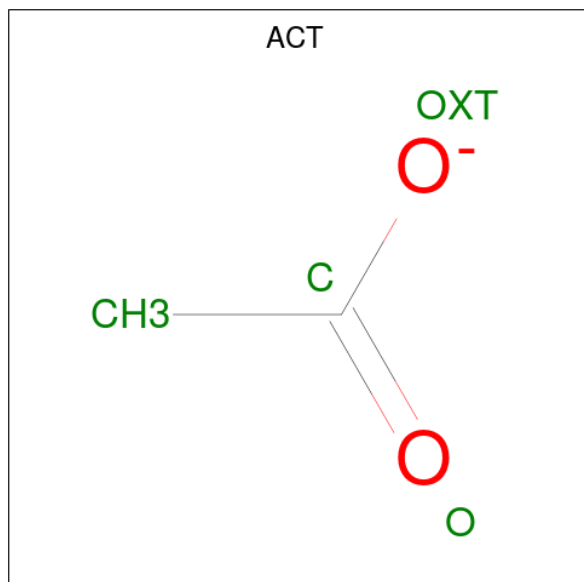
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	1740	Total	C	N	O	S	0	0	0
			13925	8896	2372	2592	65			
2	G	1710	Total	C	N	O	S	0	0	0
			13701	8753	2336	2547	65			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	422	GLY	-	expression tag	UNP G0S0B9
A	423	ALA	-	expression tag	UNP G0S0B9
A	424	GLU	-	expression tag	UNP G0S0B9
A	425	PHE	-	expression tag	UNP G0S0B9
C	422	GLY	-	expression tag	UNP G0S0B9
C	423	ALA	-	expression tag	UNP G0S0B9
C	424	GLU	-	expression tag	UNP G0S0B9
C	425	PHE	-	expression tag	UNP G0S0B9
E	422	GLY	-	expression tag	UNP G0S0B9
E	423	ALA	-	expression tag	UNP G0S0B9
E	424	GLU	-	expression tag	UNP G0S0B9
E	425	PHE	-	expression tag	UNP G0S0B9
G	422	GLY	-	expression tag	UNP G0S0B9
G	423	ALA	-	expression tag	UNP G0S0B9
G	424	GLU	-	expression tag	UNP G0S0B9
G	425	PHE	-	expression tag	UNP G0S0B9

- Molecule 3 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C H O 7 2 3 2	0	0
3	C	1	Total C H O 7 2 3 2	0	0
3	E	1	Total C H O 7 2 3 2	0	0
3	G	1	Total C H O 7 2 3 2	0	0

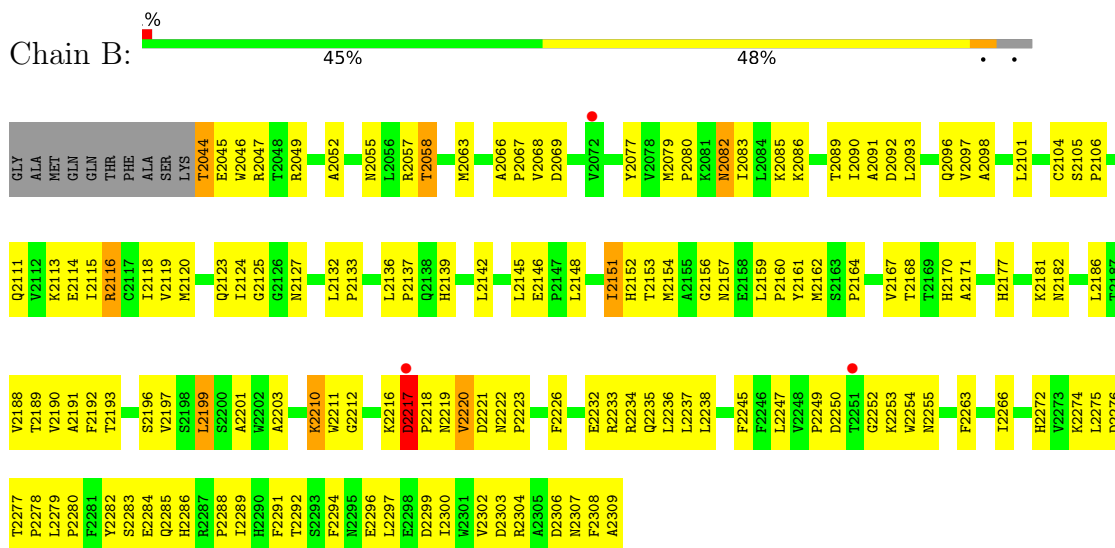
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	12	Total O 12 12	0	0
4	D	2	Total O 2 2	0	0
4	C	5	Total O 5 5	0	0
4	F	1	Total O 1 1	0	0
4	E	7	Total O 7 7	0	0
4	G	3	Total O 3 3	0	0

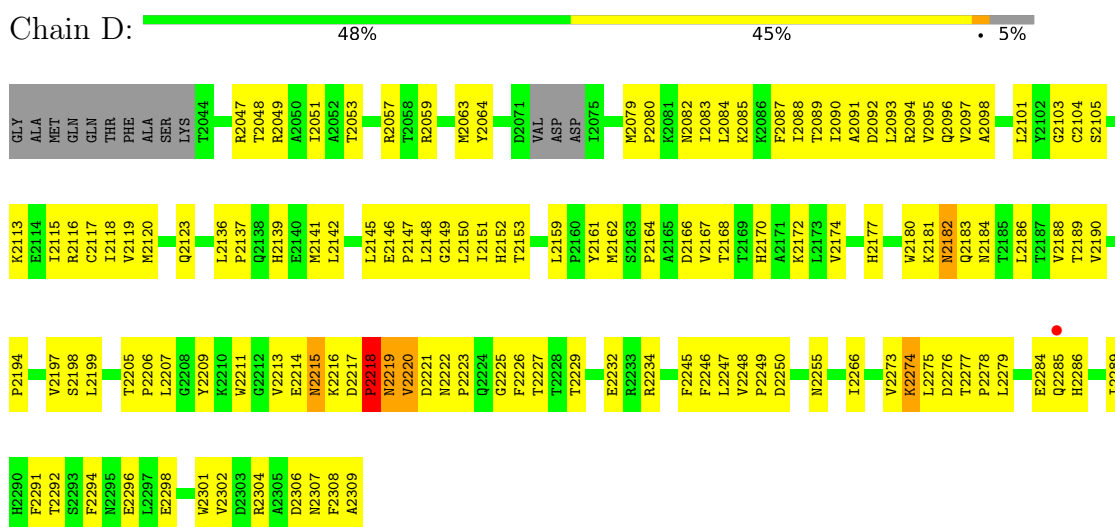
3 Residue-property plots

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

• Molecule 1: Putative pre-mRNA splicing factor

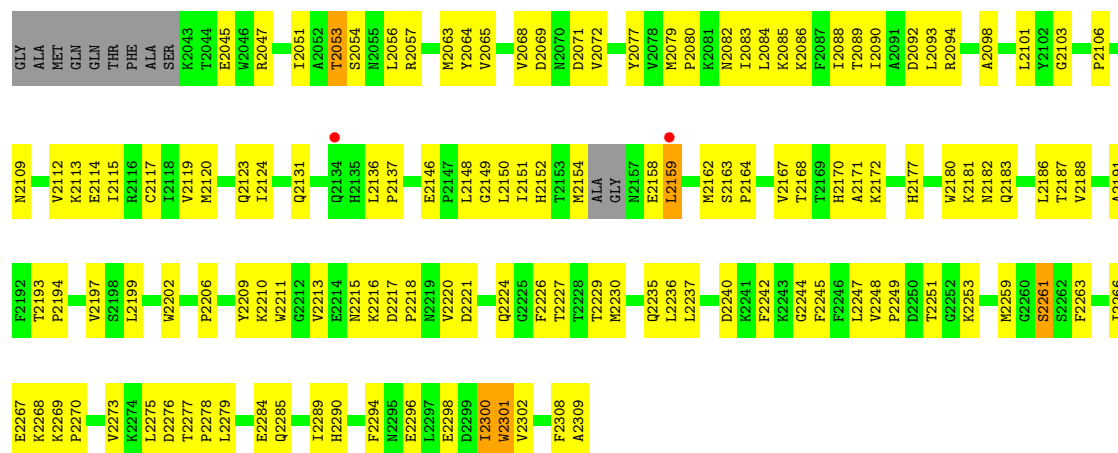


• Molecule 1: Putative pre-mRNA splicing factor

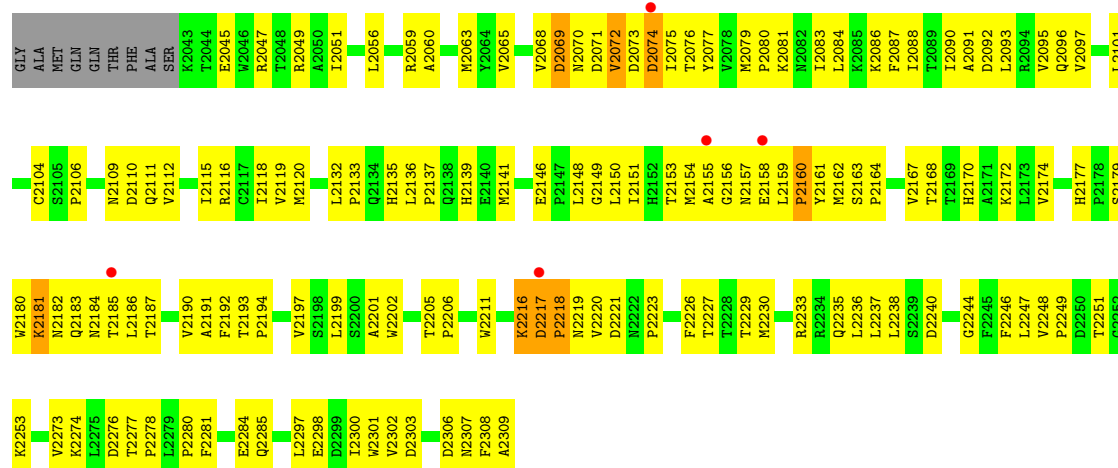


• Molecule 1: Putative pre-mRNA splicing factor

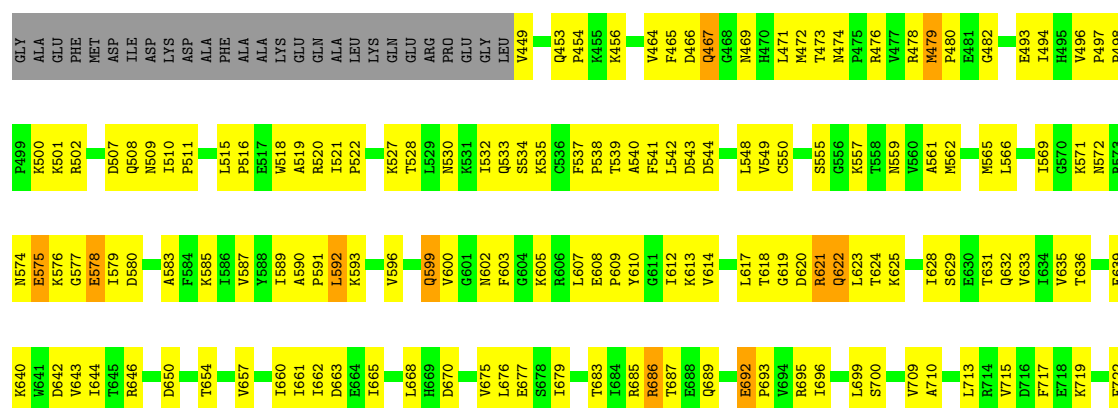




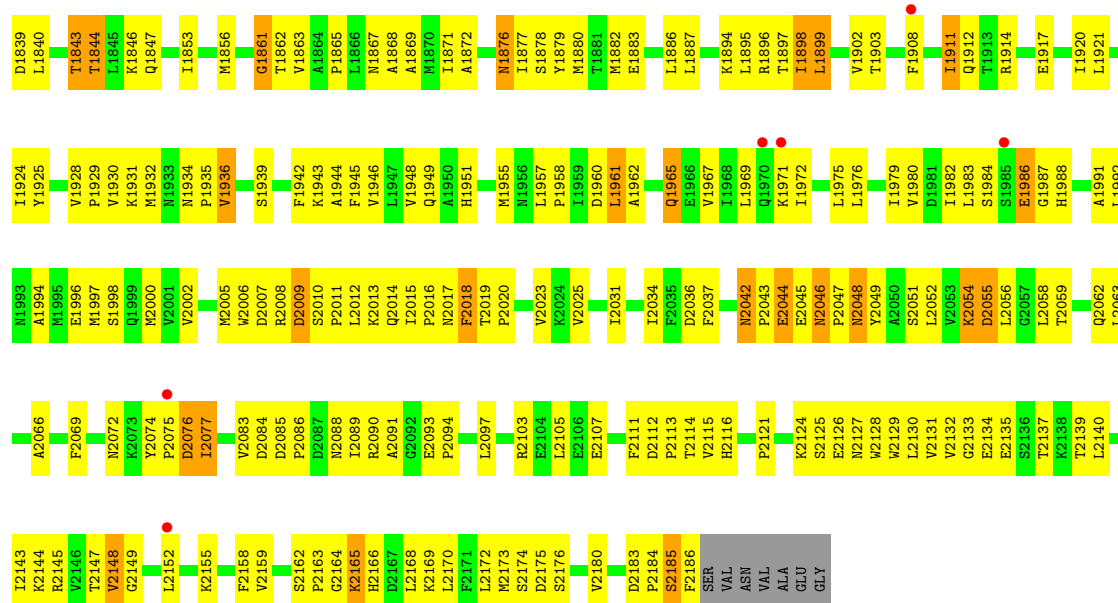
• Molecule 1: Putative pre-mRNA splicing factor



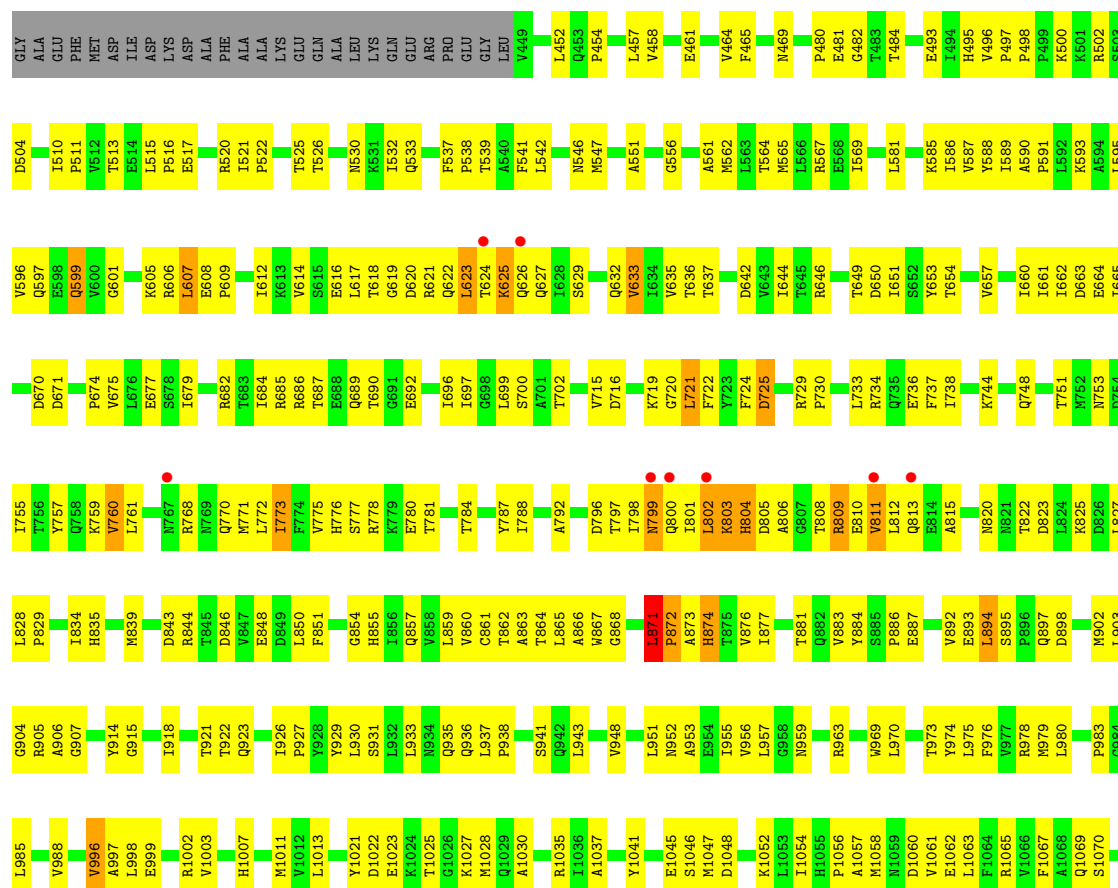
• Molecule 2: Pre-mRNA splicing helicase-like protein



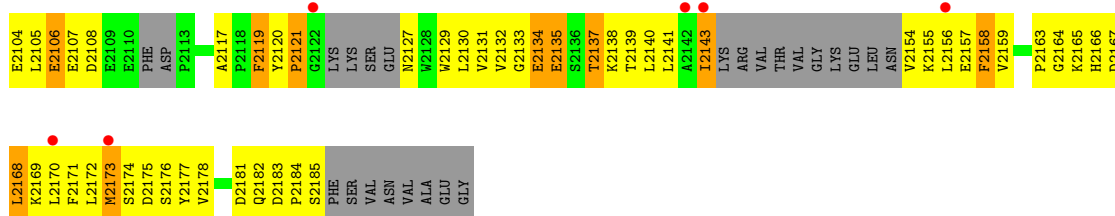
S1747	K1748	L1676	S1581	A1505	G1425	T1351	P1177	P1104	T1031	Q842	P872	E794	Y723
K1749	S1677	S1677	H1586	L1508	R1426	L1352	L1178	K1107	E1032	L943	P875	K795	F724
G1750	S1679	Q1678	H1587	L1511	V1428	L1353	Q1180	I1108	R1035	V944	T876	D796	F725
S1752	D1680	D1680	P1587	L1514	Y1429	P1358	Y1181	I1109	I1036	S945	T877	T797	G726
R1753	K1681	K1681	S1589	Q1514	T1430	L1359	P1182	V1110	E1037	K946	L878	W799	R729
G1754	R1682	R1682	L1590	M1516	P1432	P1360	C1183	L1111	S1038	L947	T879	Q800	P730
L1755	L1683	L1683	M1591	G1516	F1433	S1362	P1185	Q1113	H1039	N952	T881	L802	L733
M1757	V1684	V1684	Y1517	A1363	L1434	L1364	T1188	L1119	Y1040	A953	Q882	L801	L734
L1758	A1595	A1595	L1436	K1365	E1435	K1365	K1191	K1120	Y1041	E954	Y884	K803	Q735
P1759	K1596	K1596	V1437	A1366	D1438	F1284	K1191	L1121	S1043	V956	T882	R804	Q736
A1760	P1597	P1597	L1439	A1366	L1282	H1285	M1195	E1122	E1044	L957	E887	A806	E737
V1761	L1598	L1598	V1522	V1522	L1439	D1286	T1199	G1123	E1045	R961	A888	T808	I738
Y1766	S1524	S1524	F1441	F1441	V1287	V1287	Y1199	A1125	S1046	N962	G889	R809	K744
L1770	A1601	A1601	E1602	E1602	Y1372	Y1372	L1126	L1126	D1048	R963	V892	Q813	I746
L1774	H1602	H1602	E1456	E1456	P1374	P1374	F1203	M1127	K1052	V967	E893	K747	I746
P1775	Q1609	Q1609	L1457	L1457	N1375	N1375	D1204	Y1132	H1055	L970	L894	Q748	Q748
L1780	P1610	P1610	V1458	V1458	Q1377	Q1377	L1205	V1133	P1056	G971	S895	L749	K750
P1785	V1613	V1613	K1459	K1459	F1379	F1379	P1207	L1134	A1057	Y972	Q897	T751	T751
F1788	F1614	F1614	T1461	T1461	N1380	N1380	R1209	Q1135	M1058	T973	D898	N752	N752
P1789	M1537	M1537	T1464	T1464	K1381	K1381	M1210	A1137	D1060	L975	V899	N753	N753
F1790	L1535	L1535	T1465	T1465	T1382	T1382	L1213	G1138	E1061	F976	M902	D754	D754
P1792	I1538	I1538	T1466	T1466	Q1383	Q1383	L1213	L1139	E1062	T977	L903	I755	I755
I1792	V1540	V1540	L1467	L1467	T1384	T1384	L1214	I1140	F1063	G978	Q904	T756	T756
M1796	G1541	G1541	K1469	K1469	Q1385	Q1385	G1215	L1141	F1064	N979	R905	Y757	Y757
I1797	L1542	L1542	L1470	L1470	T1386	T1386	M1216	R1142	R1065	L980	R908	K759	K759
E1797	S1543	S1543	L1471	L1471	L1390	L1390	K1221	E1146	V1066	L985	P909	Y830	V760
S1799	V1544	V1544	E1472	E1472	P1309	P1309	L1226	I1147	A1068	Y986	Y911	G831	H763
G1800	L1546	L1546	D1475	D1475	I1310	I1310	L1226	C1148	Q1069	E991	G917	G833	V764
E1801	I1552	I1552	T1476	T1476	P1315	P1315	F1230	L1149	E1072	Y992	T918	I834	G765
T1804	M1555	M1555	L1477	L1477	F1319	F1319	P1231	K1150	F1073	D995	T919	H835	Q766
Y1811	I1556	I1556	T1478	T1478	I1320	I1320	R1232	R1151	K1074	V996	T921	H836	Q767
R1815	K1559	K1559	V1480	V1480	V1399	V1399	E1234	G1152	I1075	E999	T922	A837	R768
L1816	H1561	H1561	P1481	P1481	I1323	I1323	Q1236	A1154	P1077	K1000	Q923	Q770	N769
A1818	D1562	D1562	V1486	V1486	R1326	R1326	P1241	L1084	L1084	Q1001	T923	S840	M771
P1820	I1563	I1563	L1487	L1487	W1327	W1327	M1242	E1085	E1085	R1002	D843	L772	L772
S1821	Y1564	Y1564	S1488	S1488	M1328	M1328	T1243	L1089	L1089	R1002	R844	V775	V775
L1825	M1565	M1565	Q1490	Q1490	E1331	E1331	R1244	L1161	L1090	V1003	P927	H776	H776
Q1826	F1566	F1566	W1491	W1491	I1332	I1332	M1246	M1162	V1093	S1008	Y928	S777	S777
D1827	K1495	K1495	L1415	L1415	P1335	P1335	L1247	C1164	P1094	A1009	T929	E848	R778
P1828	M1496	M1496	L1416	L1416	V1336	V1336	I1249	K1165	I1095	V1012	L932	V858	E780
S1829	V1497	V1497	Q1498	Q1498	S1337	S1337	I1250	E1168	V1097	Y1021	L933	L859	T761
T1829	T1499	T1499	R1417	R1417	F1338	F1338	L1251	M1171	Q935	T1025	N934	V860	K786
H1830	E1501	E1501	W1419	W1419	V1347	V1347	T1253	T1174	Q936	K1027	T937	T862	Y787
L1837	L1502	L1502	D1423	D1423	P1348	P1348	P1254	M1175	E1099	Q1029	P938	T864	R789
S1838	I1504	I1504	A1424	A1424	P1349	P1349	P1255	E1101	S1100	M1029	E940	L865	D790
					H1350	H1350	L1256	S1176	E1103	Q1030	S941	A866	K791
												L871	L793



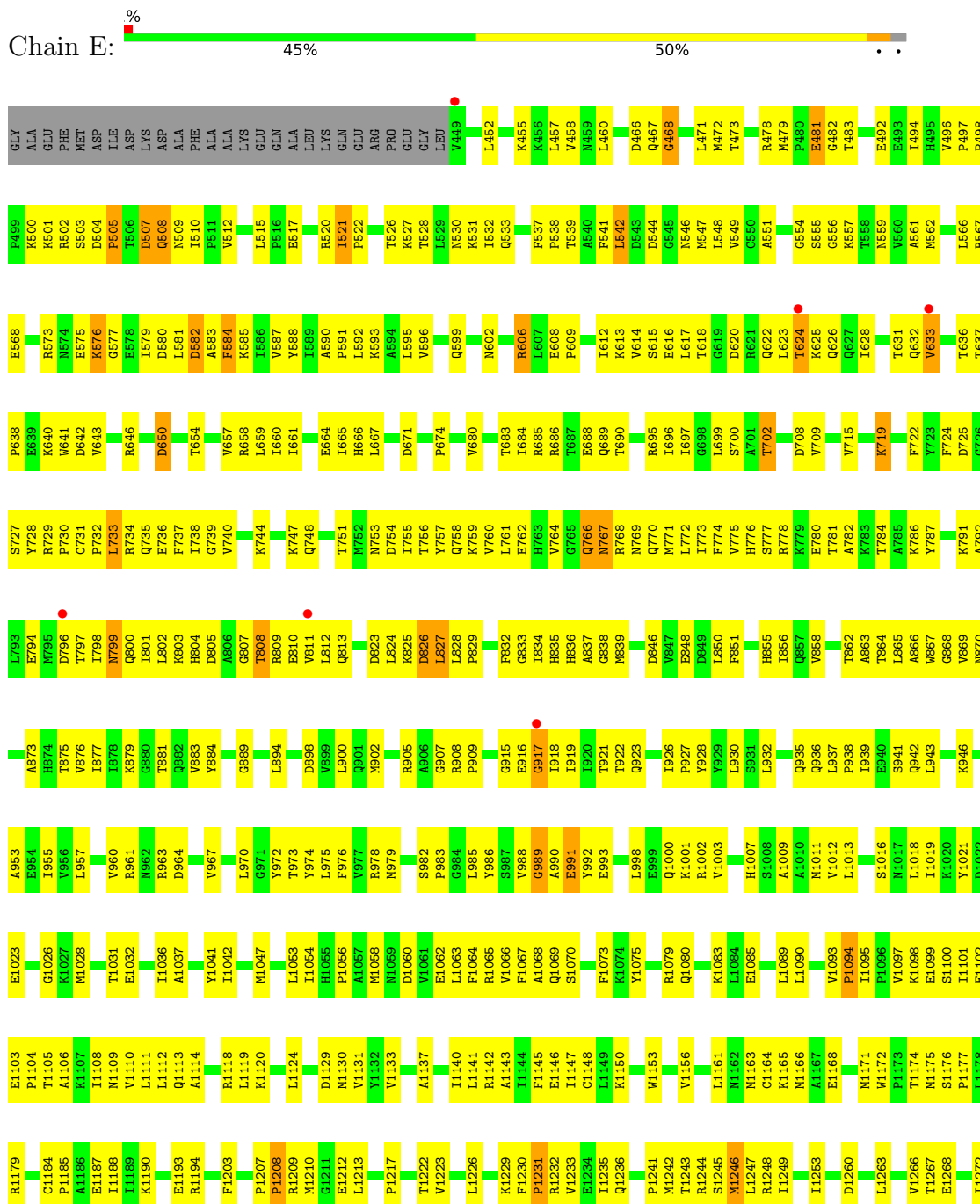
• Molecule 2: Pre-mRNA splicing helicase-like protein



F2037	L1973	Q1826	V1755	K1681	S1589	G1454	Q1385	E1299	L1140	F1073
M2041	S1974	D1827	L1756	R1682	L1590	I1457	T1386	M1300	L1141	K1074
N2042	L1976	P1828	M1758	I1683	M1591	V1458	F1387	E1301	R1142	I1076
P2043	S1977	T1829	P1759	V1684	M1594	K1459	M1388	V1304	A1143	P1077
E2044	T1903	Y1836	A1760	H1685	M1594	L1460	L1390	T1307	F1145	Q1080
E2045	A1905	L1837	P1761	K1687	K1596	T1461	Y1391	V1308	E1081	E1082
N2046	A1906	L1837	K1762	Y1688	P1597	G1462	R1392	V1309	K1083	L1084
P2047	E1907	V1841	R1763	N1689	T1598	E1463	T1393	I1310	L1147	L1149
N2048	F1908	T1842	Y1766	N1690	Q1533	T1464	N1396	I1312	W1153	E1085
A2049	S1910	K1767	K1768	G1691	L1500	D1467	L1397	P1230	V1156	A1087
A2050	I1911	K1768	P1769	A1692	E1602	L1468	L1398	P1231	L1161	K1088
S2051	Q1847	L1846	L1770	R1700	T1603	K1469	A1401	P1232	L1162	L1089
L2052	A1851	A1852	L1771	D1701	Q1604	L1470	T1403	V1233	M1163	L1090
V2053	R1853	R1854	L1772	Y1702	P1607	L1471	G1404	I1235	K1164	V1093
L2056	I1854	E1855	P1775	W1704	Q1609	E1472	K1407	Q1240	M1165	K1098
G2057	E1855	M1856	V1776	T1709	V1613	L1476	T1408	P1241	M1166	E1099
L2058	D1857	D1858	E1777	A1710	F1614	I1477	T1409	T1243	E1167	S1100
Q2062	E1858	E1859	E1778	H1711	P1616	A1481	E1480	R1244	E1168	I1101
L2063	V1928	D1859	L1774	L1712	S1617	P1482	C1410	S1245	K1169	E1102
A2064	P1929	E1860	L1780	V1713	S1617	L1482	F1413	M1246	R1170	E1103
Q2065	P1930	G1861	L1784	W1714	R1618	Q1483	A1414	M1247	M1171	P1104
F2069	LVS	T1862	P1785	V1715	R1619	W1484	L1415	R1248	P1173	T1105
T2070	MET	V1863	E1788	M1716	Q1620	D1485	L1416	H1329	E1250	K1106
N2071	ASN	A1864	V1789	G1717	T1621	V1491	L1417	S1330	M1175	K1107
N2072	Y1934	P1865	T1788	T1718	R1622	K1492	H1418	L1251	S1176	I1108
K2073	F1942	L1866	T1790	L1629	L1629	V1500	V1419	T1252	P1177	N1109
Y2074	K1943	E1791	F1721	L1629	L1629	E1501	A1420	I1253	L1177	V1110
P2075	L1943	E1792	G1723	R1640	R1640	L1502	K1421	T1254	Q1180	L1111
D2076	A1944	S1793	G1724	R1640	R1640	I1504	K1422	L1254	Q1181	Q1113
N2077	F1945	T1794	K1724	V1644	V1644	F1503	R1426	H1264	A1114	A1114
T2078	V1946	K1795	Y1728	E1645	E1645	F1503	A1427	G1265	Y1115	I1116
K2079	L1947	L1797	Y1728	E1645	V1646	N1496	Y1428	V1267	P1185	I1119
E2080	A1872	I1797	P1732	V1649	I1649	V1497	Y1429	E1268	I1188	K1120
F2081	E1798	G1800	P1732	E1735	E1735	V1500	A1431	Q1357	M1195	L1121
GLU	S1799	G1800	P1732	E1735	E1735	E1501	P1432	P1358	D1196	L1124
VAL	I1875	I1877	Y1874	Y1875	Y1875	L1502	Q1434	I1272	L1126	A1125
ASP	I1877	I1877	Y1874	Y1875	Y1875	F1503	E1435	V1274	P1197	L1126
ASP	S1878	S1878	Y1874	Y1875	Y1875	A1505	V1437	W1199	M1127	M1127
PRD	Y1879	Y1879	Y1874	Y1875	Y1875	D1506	D1438	D1276	A1128	A1128
D2087	M1880	M1880	Y1874	Y1875	Y1875	D1507	R1440	G1279	D1204	D1129
R2090	T1881	T1881	Y1874	Y1875	Y1875	H1509	F1441	L1372	D1205	M1130
A2091	M1882	M1882	Y1874	Y1875	Y1875	L1511	W1444	Q1377	P1207	V1131
GLY	E1883	E1883	Y1874	Y1875	Y1875	Q1514	F1284	Q1378	P1208	Y1132
GLU	F1884	F1884	Y1874	Y1875	Y1875	M1515	H1285	F1379	R1209	V1133
PRO	F1885	F1885	Y1874	Y1875	Y1875	G1516	T1289	K1381	M1210	T1134
K2024	L1886	L1886	Y1874	Y1875	Y1875	G1516	L1290	R1291	L1213	Q1135
Y2029	L1889	L1889	Y1874	Y1875	Y1875	I1517	L1448	K1382	L1214	S1136
G2030	S1893	S1893	Y1874	Y1875	Y1875	I1518	L1447	M1380	G1215	A1137
L2031	K1894	K1894	Y1874	Y1875	Y1875	P1585	R1447	K1381	L1216	G1138
N2032	L1895	L1895	Y1874	Y1875	Y1875	H1586	L1448	K1381	M1216	R1139
D2033	R1896	R1896	Y1874	Y1875	Y1875	F1587	L1448	K1381	M1216	R1139
L2100	Q1970	Q1970	Y1874	Y1875	Y1875	I1518	L1448	K1381	M1216	R1139
E2102	K1971	K1971	Y1874	Y1875	Y1875	P1588	L1448	K1381	M1216	R1139
R2103	L1972	L1972	Y1874	Y1875	Y1875	P1588	L1448	K1381	M1216	R1139



● Molecule 2: Pre-mRNA splicing helicase-like protein



G1516	L1451	V1304	P1208	V1131	P1056	W969	E987	T808	L738	D650	L581	S503
Y1517	R1452	E1305	R1209	Y1132	A1057	L970	W892	R809	G739	L651	D582	D504
I1518	T1386	F1307	L1213	V1133	M1058	T973	E992	E811	V740	T654	A583	P505
V1522	K1455	V1306	L1216	G1138	D1060	Y974	E993	L812	L894	T654	F584	T506
V1523	E1456	V1309	P1217	L1140	E1062	L975	S895	D813	D742	V657	K585	D507
S1524	I1457	I1310	R1216	L1141	L1063	F976	D898	E814	I746	R658	K586	K508
R1525	V1391	P1309	A1219	L1142	F1064	Y977	W902	S817	W749	L659	V587	N509
M1526	K1458	I1312	A1219	L1143	R1065	R978	M902	S818	K750	L660	F588	V512
F1527	L1460	S1311	A1219	L1144	R1066	M979	L903	W819	T751	A590	L589	T513
F1528	D1394	P1313	V1223	L1145	F1067	L980	G904	N820	W753	P591	A591	E514
E1463	M1314	C1224	C1224	F1145	A1068	R981	G905	N821	W753	L592	L592	L515
I1529	V1318	V1227	V1227	E1146	Q1068	L985	A906	T822	D754	K593	K593	P516
R1530	F1319	I1320	I1320	L1147	Q1069	Y996	G907	L823	I755	A594	A594	E517
T1531	I1320	S1321	P1231	C1148	E1072	Y998	G907	L823	D670	L595	L595	W518
Q1532	A1400	I1322	R1232	L1149	F1073	E992	E908	L824	D671	V596	V596	A519
T1533	A1401	I1322	R1232	L1149	K1074	Y992	E993	K825	R672	Q597	Q597	A519
K1468	P1402	I1323	I1235	W1153	E1075	D984	D912	E826	G673	F603	F603	E520
L1470	T1403	M1328	Q1236	S1155	I1076	E999	G917	L827	W760	P674	P674	P522
L1471	G1404	S1405	Q1236	V1156	P1077	E999	E918	L828	E762	W679	W679	F523
G1474	G1406	E1331	Q1240	L1159	V1078	Q1000	I919	P829	H763	R606	R606	T526
D1475	K1407	M1334	P1241	L1160	E1079	K1001	I920	F832	W764	L607	L607	T527
L1476	T1408	P1335	M1242	L1161	Q1080	R1002	I921	W765	G765	E608	E608	T528
I1477	V1409	P1335	T1243	L1161	E1081	V1003	T924	W766	Q766	P609	P609	L529
L1478	G1410	V1336	R1244	W1162	E1082	D1004	G924	R768	W767	G611	G611	W530
A1479	A1411	S1337	S1245	M1163	K1083	H1007	E925	N769	W769	L612	L612	A531
L1480	F1412	F1338	M1246	C1164	L1084	E1007	I926	K839	K770	K613	K613	Q533
P1481	F1413	L1343	L1247	K1165	E1085	M1011	Y928	R841	W771	W614	W614	T532
L1482	A1414	L1343	R1248	E1168	L1089	Y1021	Y929	R842	L772	S615	S615	F537
L1415	L1415	E1352	I1249	L1169	L1090	S1016	I930	D843	W773	L617	L617	P538
L1416	R1417	L1353	E1250	R1170	L1090	M1017	S931	R844	W774	T618	T618	T539
W1486	L1418	L1354	L1251	M1171	V1093	L1018	L932	T845	W776	G619	G619	A540
L1487	W1419	L1355	N1256	W1172	E1102	E1018	L933	D846	S777	D620	D620	F541
S1488	A1420	L1356	E1262	P1173	E1103	Y1021	N934	W847	R778	L542	L542	L542
R1489	K1421	Q1357	E1262	T1174	K1098	Q935	Q935	E848	K779	T624	T624	M547
Q1490	K1422	P1358	E1262	M1175	S1100	K1027	Q936	D843	E780	K695	K695	L548
W1491	D1423	L1359	V1266	S1176	L1101	M1028	L937	R844	W781	Q626	Q626	L548
K1492	A1424	P1360	T1267	P1177	E1102	Q1029	P938	T845	A782	Q627	Q627	V549
R1493	G1425	V1361	E1267	E1173	E1103	E1032	L943	D846	K783	T628	T628	K557
K1494	R1426	S1362	W1271	Q1180	P1104	E1032	L943	W847	W784	E630	E630	A561
K1495	A1427	L1363	L1272	V1181	A1106	L1033	L951	E848	A785	T631	T631	A561
N1496	V1428	L1364	L1273	P1182	A1106	L1033	N952	D848	W788	Q632	Q632	T564
V1497	Y1429	K1365	V1274	T1183	K1107	I1036	A953	C861	R789	V633	V633	M565
Q1498	I1430	A1366	L1283	C1184	L1111	A1037	E954	T862	K719	L634	L634	L566
T1499	A1431	K1367	F1284	P1185	L1112	S1038	I955	A863	A792	V635	V635	L566
V1500	F1433	D1368	H1285	E1186	Q1113	H1039	I955	T864	F722	T636	T636	T569
E1501	Q1434	Y1369	D1286	E1187	A1114	Y1040	L957	L865	D796	T637	T637	G570
L1502	D1438	L1372	V1287	L1188	A1114	Y1041	L957	L865	W797	E639	E639	A571
F1503	E1435	L1372	F1288	K1191	Y1115	I1042	G958	W869	F724	P638	P638	G570
I1504	L1436	Y1373	I1289	L1116	L1116	M1047	N959	I799	D725	B639	B639	N572
A1505	P1374	P1374	L1290	M1195	R1117	M1047	N960	W799	G726	K640	K640	N572
H1509	Q1377	Q1377	R1291	L1196	R1118	T1049	N962	L871	Q800	W641	W641	R573
M1510	F1441	K1380	K1292	V1197	L1126	K1052	N963	W876	L802	D642	D642	N574
L1511	Q1442	K1381	D1293	M1127	L1127	K1052	N966	L877	K803	V643	V643	E575
Q1514	Q1445	I1382	L1294	A1128	A1128	L1053	G967	H804	D805	R647	R647	E578
M1515	Q1445	I1382	T1303	P1207	M1130	H1055	E968	Y884	W805	K646	K646	I579
										F737	F737	D580



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	92.54Å 269.59Å 231.69Å 90.00° 90.10° 90.00°	Depositor
Resolution (Å)	49.13 – 3.20 49.13 – 3.20	Depositor EDS
% Data completeness (in resolution range)	99.0 (49.13-3.20) 99.0 (49.13-3.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 3.19Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.244 , 0.287 0.249 , 0.289	Depositor DCC
R_{free} test set	9222 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	93.4	Xtriage
Anisotropy	0.312	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 71.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.044 for h,-k,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	63679	wwPDB-VP
Average B, all atoms (Å ²)	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.98% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	B	0.25	0/2175	0.73	2/2962 (0.1%)
1	D	0.27	0/2151	0.71	0/2927
1	F	0.26	0/2174	0.72	0/2958
1	H	0.26	0/2184	0.72	0/2973
2	A	0.27	0/14227	0.72	1/19296 (0.0%)
2	C	0.26	0/13925	0.73	1/18882 (0.0%)
2	E	0.26	0/14234	0.71	4/19306 (0.0%)
2	G	0.28	0/13998	0.74	7/18976 (0.0%)
All	All	0.27	0/65068	0.73	15/88280 (0.0%)

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	D	0	1
2	E	0	1
All	All	0	2

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	504	ASP	CA-C-N	7.53	129.25	119.84
2	G	504	ASP	C-N-CA	7.53	129.25	119.84
1	B	2217	ASP	CA-C-N	-7.40	114.17	121.65
1	B	2217	ASP	C-N-CA	-7.40	114.17	121.65
2	G	1417	ARG	CA-C-N	6.77	130.20	120.79
2	G	1417	ARG	C-N-CA	6.77	130.20	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1985	SER	CB-CA-C	-5.80	109.90	116.63
2	E	1514	GLN	CB-CA-C	-5.65	110.08	116.63
2	A	794	GLU	N-CA-C	-5.55	106.30	112.57
2	G	496	VAL	CA-C-N	5.32	123.54	119.66
2	G	496	VAL	C-N-CA	5.32	123.54	119.66
2	E	624	THR	N-CA-C	-5.17	104.17	111.56
2	G	1502	LEU	N-CA-C	5.08	117.53	109.50
2	E	2093	GLU	CA-C-N	5.05	125.33	119.93
2	E	2093	GLU	C-N-CA	5.05	125.33	119.93

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	2217	ASP	Peptide
2	E	1965	GLN	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2116	0	2075	144	0
1	D	2093	0	2057	131	0
1	F	2116	0	2079	137	0
1	H	2125	0	2088	134	0
2	A	13917	0	13956	899	0
2	C	13628	0	13674	1001	0
2	E	13925	0	13970	918	0
2	G	13701	0	13768	1027	0
3	A	4	3	3	1	0
3	C	4	3	3	1	0
3	E	4	3	3	4	0
3	G	4	3	3	0	0
4	A	12	0	0	0	0
4	C	5	0	0	0	0
4	D	2	0	0	0	0
4	E	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	1	0	0	0	0
4	G	3	0	0	1	0
All	All	63667	12	63679	4303	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 34.

All (4303) 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)
2:E:521:ILE:HD12	2:E:522:PRO:HD3	1.22	1.21
2:C:874:HIS:HA	2:C:907:GLY:HA2	1.28	1.13
2:G:515:LEU:HB3	2:G:516:PRO:HD2	1.18	1.10
2:C:2040:GLN:HA	2:C:2046:ASN:HB3	1.29	1.10
2:G:1574:PRO:HB2	2:G:1751:ARG:HG2	1.31	1.09
1:B:2253:LYS:HE3	1:B:2279:LEU:HG	1.36	1.07
2:C:813:GLN:HB3	2:C:829:PRO:HA	1.39	1.04
2:C:2000:MET:HE2	2:C:2007:ASP:HA	1.39	1.03
2:A:797:THR:HB	2:A:801:ILE:HD13	1.38	1.02
2:G:1418:HIS:NE2	2:G:1501:GLU:HB2	1.75	1.02
2:G:2171:PHE:HB3	2:G:2183:ASP:HA	1.42	1.02
2:E:661:ILE:HG12	2:E:697:ILE:HD11	1.42	1.01
2:A:1928:VAL:HG21	2:A:1949:GLN:HB3	1.42	1.00
2:G:1792:ILE:HG21	2:G:1854:ILE:HD11	1.41	0.98
2:E:2050:ALA:HB3	2:E:2054:LYS:HE2	1.42	0.98
2:A:1247:LEU:HD13	2:A:1310:ILE:HG13	1.46	0.97
2:E:674:PRO:HB2	2:E:946:LYS:HD3	1.46	0.97
2:G:1862:THR:HG22	2:G:1863:VAL:HG13	1.45	0.96
2:C:620:ASP:HA	2:C:623:LEU:HB2	1.44	0.96
2:G:1236:GLN:HA	2:G:1334:MET:HE1	1.46	0.95
2:G:2002:VAL:HG21	2:G:2176:SER:HA	1.46	0.95
2:E:1982:ILE:HB	2:E:1991:ALA:HB2	1.48	0.95
2:A:2059:THR:HG23	2:A:2062:GLN:HB2	1.45	0.95
2:A:1792:ILE:HG22	2:A:1865:PRO:HB3	1.47	0.95
2:G:841:ARG:HG2	2:G:845:THR:HG23	1.48	0.95
2:G:1457:ILE:HG22	2:G:1476:LEU:HD23	1.48	0.95
2:G:1632:CYS:HB3	2:G:1639:ASP:HA	1.48	0.94
2:A:1975:LEU:HD11	2:A:1997:MET:HG2	1.50	0.94
2:A:2012:LEU:HD13	2:A:2034:ILE:HD13	1.47	0.94
2:E:877:ILE:HG12	2:E:918:ILE:HD11	1.48	0.94
2:C:1467:ASP:HA	2:C:1470:LEU:HG	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1921:LEU:HD21	2:C:1946:VAL:HG21	1.48	0.94
2:G:515:LEU:HB3	2:G:516:PRO:CD	1.98	0.94
2:G:506:THR:HG22	2:G:508:GLN:HG2	1.48	0.94
2:C:561:ALA:HB1	2:C:661:ILE:HD13	1.49	0.93
2:G:2052:LEU:HD12	2:G:2055:ASP:HA	1.50	0.93
2:G:1392:ASN:HA	2:G:1417:ARG:HB3	1.46	0.93
2:C:1903:THR:HG21	2:C:1945:PHE:HA	1.49	0.92
2:A:614:VAL:HG22	2:A:633:VAL:HB	1.52	0.92
2:G:665:ILE:HG22	2:G:700:SER:HB2	1.49	0.92
2:G:1495:LYS:HA	2:G:1498:GLN:HG2	1.51	0.92
2:C:2047:PRO:HB2	2:C:2050:ALA:HA	1.50	0.91
2:C:622:GLN:HG2	2:C:627:GLN:HB2	1.49	0.91
1:D:2218:PRO:HG2	1:D:2223:PRO:HB3	1.51	0.91
2:G:2005:MET:HB2	2:G:2013:LYS:HD3	1.53	0.91
2:C:1791:GLU:HB3	2:C:1797:ILE:HG13	1.52	0.91
2:E:1364:LEU:HD13	2:E:1369:TYR:HB3	1.50	0.91
2:C:1492:LYS:HE3	2:C:1796:MET:HE1	1.53	0.91
1:B:2057:ARG:HD2	2:A:1057:ALA:HB1	1.53	0.91
2:A:975:LEU:HG	2:A:979:MET:HE2	1.54	0.90
2:E:1353:LEU:HD22	2:E:1570:VAL:HG13	1.50	0.90
1:B:2154:MET:HB3	1:B:2191:ALA:HA	1.52	0.90
2:E:1236:GLN:HA	2:E:1334:MET:HE1	1.52	0.90
2:C:1857:ASP:HA	2:C:1861:GLY:HA2	1.53	0.90
2:E:625:LYS:HB2	2:E:628:ILE:HG22	1.54	0.90
2:G:926:ILE:HG13	2:G:927:PRO:HD3	1.51	0.90
2:C:1854:ILE:H	2:C:1854:ILE:HD12	1.36	0.90
1:H:2079:MET:HE1	1:H:2151:ILE:HD11	1.51	0.89
2:E:1774:LEU:HD12	2:E:1775:PRO:HD2	1.54	0.89
2:C:1732:PRO:HG2	2:C:1735:GLU:HG3	1.55	0.89
2:C:1958:PRO:HD2	2:C:1961:LEU:HD12	1.55	0.89
2:G:1546:LEU:HD22	2:G:1552:ILE:HD13	1.54	0.89
2:E:561:ALA:HB1	2:E:661:ILE:HD13	1.55	0.88
1:F:2151:ILE:HG12	1:F:2188:VAL:HB	1.56	0.88
2:C:931:SER:HA	2:C:936:GLN:HB2	1.53	0.88
2:C:1571:ARG:HH21	2:C:1744:LEU:HD23	1.36	0.88
2:G:801:ILE:HD13	2:G:803:LYS:HE3	1.55	0.88
2:G:811:VAL:HG13	2:G:812:LEU:HD12	1.56	0.87
2:A:1530:ARG:HD2	2:A:1537:MET:HB3	1.54	0.87
2:E:517:GLU:HG2	2:E:520:ARG:HH12	1.39	0.87
2:C:2046:ASN:OD1	2:C:2049:TYR:N	2.07	0.87
2:E:782:ALA:HB1	2:E:824:LEU:HD21	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1359:LEU:HD13	2:E:1384:THR:HB	1.57	0.86
2:G:1452:ARG:H	2:G:1452:ARG:HD2	1.41	0.86
2:C:1898:ILE:HA	2:C:1901:ILE:HD12	1.58	0.86
2:C:1924:ILE:HD11	2:C:1946:VAL:HB	1.57	0.86
2:G:1591:MET:HE2	2:G:1591:MET:HA	1.57	0.86
2:A:1714:VAL:HG12	2:A:1755:VAL:HB	1.56	0.86
2:A:2131:VAL:HG22	2:A:2143:ILE:HG13	1.57	0.86
2:E:1393:THR:HG22	2:E:1395:ASN:H	1.41	0.86
2:E:1530:ARG:HB3	2:E:1537:MET:HE2	1.58	0.86
2:A:2077:ILE:HG22	2:A:2103:ARG:HA	1.56	0.85
2:G:1249:ILE:HD11	2:G:1320:ILE:HD11	1.58	0.85
2:A:590:ALA:HB3	2:A:596:VAL:HG12	1.57	0.85
2:A:625:LYS:HD3	2:A:644:ILE:HD11	1.58	0.85
2:E:1675:ALA:HA	2:E:1963:LYS:HD3	1.59	0.85
1:B:2288:PRO:HB3	2:A:1174:THR:HG21	1.58	0.85
2:G:841:ARG:HA	2:G:844:ARG:HB3	1.58	0.85
2:G:1390:LEU:HD23	2:G:1397:VAL:HG21	1.59	0.85
2:A:1191:LYS:HE2	2:A:1195:MET:HE3	1.57	0.85
2:A:1207:PRO:HG2	2:A:1208:PRO:HD3	1.57	0.85
2:C:773:ILE:HD11	2:C:860:VAL:HG13	1.57	0.85
2:A:620:ASP:HB3	2:A:624:THR:HG22	1.59	0.84
2:G:1796:MET:HE2	2:G:1796:MET:HA	1.57	0.84
2:A:1574:PRO:HB2	2:A:1751:ARG:HG2	1.59	0.84
2:A:1983:LEU:HD13	2:A:2143:ILE:HG21	1.58	0.84
2:C:1911:ILE:HD11	2:C:1966:GLU:HG2	1.59	0.84
2:C:1558:ALA:HB3	2:C:1563:ILE:HD11	1.60	0.84
2:C:1644:VAL:HG13	2:C:1649:ILE:HD11	1.57	0.84
2:E:1714:VAL:HG12	2:E:1755:VAL:HB	1.59	0.84
2:C:617:LEU:HD21	2:C:644:ILE:HG13	1.58	0.83
2:C:1207:PRO:HG2	2:C:1208:PRO:HD3	1.59	0.83
2:G:1392:ASN:HA	2:G:1417:ARG:HD2	1.58	0.83
2:G:1774:LEU:HD12	2:G:1775:PRO:HD2	1.58	0.83
2:A:1958:PRO:HG2	2:A:1961:LEU:HB2	1.58	0.83
2:A:836:HIS:H	2:A:839:MET:HE2	1.44	0.83
2:E:1987:GLY:HA2	2:E:2140:LEU:N	1.94	0.83
2:E:1111:LEU:HD22	2:E:1130:MET:HB2	1.60	0.83
2:C:1415:LEU:HD12	2:C:1502:LEU:HD21	1.61	0.82
2:E:591:PRO:HD2	2:E:595:LEU:HD23	1.59	0.82
2:G:658:ARG:HH12	2:G:692:GLU:HG3	1.44	0.82
2:G:1995:MET:HE2	2:G:2173:MET:HB2	1.61	0.82
2:E:1396:ASN:HB2	2:E:1558:ALA:HB2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1426:ARG:HB2	2:G:1499:THR:HG23	1.62	0.82
2:A:955:ILE:HG22	2:A:1030:ALA:HB2	1.62	0.82
1:F:2079:MET:HE3	1:F:2115:ILE:HD12	1.59	0.82
2:C:2040:GLN:CA	2:C:2046:ASN:HB3	2.08	0.82
2:E:479:MET:HE3	2:E:483:THR:HG21	1.62	0.82
1:H:2106:PRO:HD2	1:H:2112:VAL:HG13	1.60	0.82
2:A:1394:ASP:HB3	2:A:1417:ARG:HE	1.43	0.81
2:A:872:PRO:HB2	2:A:908:ARG:HG2	1.62	0.81
2:E:2162:SER:HB2	2:E:2163:PRO:HD2	1.63	0.81
2:G:1101:ILE:HG23	2:G:1102:GLU:H	1.44	0.81
2:A:575:GLU:HG3	2:A:576:LYS:HG3	1.62	0.81
2:G:2003:GLN:HE22	2:G:2177:TYR:HA	1.43	0.80
2:G:1457:ILE:HD13	2:G:1457:ILE:H	1.44	0.80
2:E:798:ILE:HA	2:E:801:ILE:HD13	1.62	0.80
2:A:1560:LYS:HA	2:A:1563:ILE:HG12	1.63	0.80
1:D:2083:ILE:HD12	1:D:2118:ILE:HG13	1.61	0.80
2:C:1364:LEU:HD11	2:C:1416:LEU:HD21	1.62	0.80
1:F:2183:GLN:HB3	2:G:1206:ASP:HB3	1.63	0.80
2:G:501:LYS:HB3	2:G:727:SER:HB2	1.64	0.80
2:G:586:ILE:HB	2:G:633:VAL:HA	1.64	0.80
2:A:1460:LEU:HD23	2:A:1479:ALA:HB2	1.62	0.80
2:A:453:GLN:HG3	2:A:454:PRO:HD2	1.64	0.80
2:G:851:PHE:HA	2:G:856:ILE:HG22	1.64	0.80
2:G:519:ALA:HB1	2:G:566:LEU:HD23	1.62	0.79
2:A:877:ILE:HG12	2:A:918:ILE:HB	1.63	0.79
2:G:2144:LYS:HD3	2:G:2156:LEU:HD13	1.64	0.79
2:C:877:ILE:HG12	2:C:918:ILE:HB	1.62	0.79
2:C:665:ILE:HG22	2:C:700:SER:HB2	1.64	0.79
2:E:617:LEU:HD23	2:E:622:GLN:HG3	1.62	0.79
2:G:1959:ILE:HD12	2:G:1959:ILE:H	1.47	0.79
2:A:1856:MET:HA	2:A:1863:VAL:HA	1.63	0.79
2:C:1382:ILE:H	2:C:1382:ILE:HD12	1.48	0.79
2:E:932:LEU:HD13	2:E:937:LEU:HD23	1.65	0.79
2:G:493:GLU:HG2	2:G:738:ILE:HG12	1.65	0.79
2:C:586:ILE:HB	2:C:633:VAL:HA	1.65	0.78
2:G:1855:GLU:HB2	2:G:1866:LEU:HD11	1.65	0.78
2:C:1792:ILE:HD13	2:C:1797:ILE:HB	1.65	0.78
2:E:1560:LYS:HA	2:E:1563:ILE:HG12	1.65	0.78
2:E:1968:ILE:HA	2:E:1971:LYS:HB3	1.64	0.78
2:C:771:MET:HE3	2:C:877:ILE:HD12	1.65	0.78
1:F:2227:THR:HB	1:F:2230:MET:HG3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2119:VAL:HG11	1:B:2137:PRO:HG3	1.65	0.78
2:C:2002:VAL:HG11	2:C:2176:SER:HB2	1.65	0.78
1:F:2068:VAL:HG22	1:F:2069:ASP:H	1.49	0.78
1:F:2300:ILE:O	1:F:2302:VAL:N	2.15	0.78
2:G:690:THR:HG23	2:G:692:GLU:H	1.48	0.78
2:C:1022:ASP:HB3	2:C:1025:THR:HG22	1.66	0.78
2:C:1357:GLN:HG2	2:C:1359:LEU:H	1.49	0.78
2:E:562:MET:HE3	2:E:606:ARG:HD2	1.65	0.78
2:A:2019:THR:HB	2:A:2020:PRO:HD2	1.66	0.78
2:C:1080:GLN:HA	2:C:1083:LYS:HG3	1.65	0.78
2:E:2077:ILE:HG22	2:E:2103:ARG:HA	1.66	0.78
2:G:2115:VAL:HB	2:G:2125:SER:HB3	1.64	0.78
2:C:2172:LEU:HD11	2:C:2182:GLN:HB2	1.64	0.78
2:A:1064:PHE:HB3	2:A:1109:ASN:HD21	1.47	0.77
2:A:1530:ARG:HB2	2:A:1537:MET:HE2	1.65	0.77
2:C:587:VAL:HB	2:C:660:ILE:HG22	1.65	0.77
2:G:1714:VAL:HG12	2:G:1755:VAL:HB	1.65	0.77
2:A:1440:ARG:HA	2:A:1440:ARG:HE	1.49	0.77
2:A:1598:THR:HG21	2:A:1716:MET:HE2	1.66	0.77
2:G:1419:TRP:HH2	2:G:1476:LEU:HB2	1.50	0.77
1:B:2220:VAL:HG22	1:B:2221:ASP:H	1.49	0.77
2:E:800:GLN:HG2	2:E:805:ASP:HB2	1.65	0.77
2:E:1616:PRO:HG3	2:E:1717:GLY:HA3	1.66	0.77
2:A:1571:ARG:HG3	2:A:1572:PRO:HD2	1.66	0.76
2:C:1921:LEU:CD2	2:C:1946:VAL:HG21	2.15	0.76
2:G:1393:THR:O	2:G:1395:ASN:ND2	2.18	0.76
1:B:2068:VAL:HG11	1:B:2235:GLN:HB2	1.66	0.76
2:A:612:ILE:HG23	2:A:632:GLN:HB2	1.66	0.76
2:G:2026:ALA:HB1	2:G:2031:ILE:HD11	1.66	0.76
2:G:737:PHE:HE2	2:G:933:LEU:HD12	1.49	0.76
2:C:1428:VAL:HG13	2:C:1503:PHE:HD1	1.49	0.76
2:E:521:ILE:HD12	2:E:522:PRO:CD	2.12	0.76
2:G:1426:ARG:HG3	2:G:1499:THR:CG2	2.15	0.76
2:E:646:ARG:HA	2:E:957:LEU:HD11	1.67	0.76
2:C:1021:TYR:HD1	2:C:1028:MET:HG2	1.51	0.76
2:E:1372:LEU:HD21	2:E:1451:LEU:HD21	1.67	0.76
2:E:2068:ASN:O	2:E:2071:ASN:ND2	2.19	0.76
2:A:2165:LYS:HE3	2:C:1934:ASN:HD22	1.49	0.75
2:C:768:ARG:NH2	2:C:802:LEU:HB3	1.99	0.75
2:E:782:ALA:CB	2:E:824:LEU:HD21	2.15	0.75
2:G:2157:GLU:HG2	2:G:2158:PHE:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2080:PRO:HD2	1:F:2083:ILE:HD11	1.68	0.75
1:B:2253:LYS:HE3	1:B:2279:LEU:CG	2.16	0.75
1:D:2218:PRO:CG	1:D:2223:PRO:HB3	2.15	0.75
2:C:1172:TRP:HD1	2:C:1175:MET:HE3	1.51	0.75
2:E:537:PHE:HB3	2:E:538:PRO:HD3	1.68	0.75
2:C:1426:ARG:HE	2:C:1496:ASN:HB3	1.51	0.75
1:D:2250:ASP:HA	1:D:2274:LYS:HD2	1.69	0.75
2:C:1467:ASP:HA	2:C:1470:LEU:CG	2.15	0.75
2:C:1854:ILE:HG13	2:C:1866:LEU:HD13	1.68	0.75
2:G:1792:ILE:HG22	2:G:1865:PRO:HB3	1.65	0.75
2:G:1894:LYS:H	2:G:1988:HIS:HE1	1.32	0.75
2:E:1987:GLY:HA2	2:E:2140:LEU:H	1.51	0.75
2:G:1042:ILE:HD12	2:G:1140:ILE:HD13	1.68	0.75
2:C:770:GLN:HE21	2:C:854:GLY:HA2	1.51	0.75
1:F:2101:LEU:HD21	1:F:2151:ILE:HG13	1.67	0.75
2:E:452:LEU:O	2:E:963:ARG:NH1	2.20	0.75
2:G:1854:ILE:HD12	2:G:1865:PRO:HA	1.67	0.75
2:G:2053:VAL:HG13	2:G:2056:LEU:HB2	1.69	0.75
2:C:617:LEU:HA	2:C:622:GLN:NE2	2.01	0.75
2:A:1715:VAL:HG13	2:A:1739:MET:HE1	1.68	0.74
2:C:1979:ILE:HA	2:C:1982:ILE:HG22	1.66	0.74
2:A:1065:ARG:HH21	2:A:1099:GLU:HB3	1.52	0.74
2:A:1353:LEU:HD22	2:A:1570:VAL:CG1	2.16	0.74
2:A:1596:LYS:HB3	2:A:1597:PRO:HD3	1.68	0.74
2:C:1229:LYS:HD3	2:C:1260:ASP:HB2	1.69	0.74
2:C:1596:LYS:HB3	2:C:1597:PRO:HD3	1.67	0.74
2:G:746:ILE:H	2:G:746:ILE:HD12	1.53	0.74
2:E:881:THR:HG21	2:E:919:ILE:HD11	1.69	0.74
2:G:2102:GLU:HG3	2:G:2103:ARG:H	1.51	0.74
2:A:828:LEU:HB3	2:A:829:PRO:HD3	1.67	0.74
2:E:1400:ALA:HB3	2:E:1565:ASN:HA	1.69	0.74
2:C:797:THR:O	2:C:801:ILE:N	2.19	0.74
2:E:2051:SER:HB2	2:E:2054:LYS:HA	1.69	0.74
2:G:1191:LYS:HE2	2:G:1216:MET:HE3	1.70	0.74
2:G:1587:PHE:HB3	2:G:1588:PRO:HD3	1.68	0.74
2:G:1798:GLU:C	2:G:1863:VAL:HG21	2.11	0.74
2:C:660:ILE:HD11	2:C:696:ILE:HG13	1.69	0.74
2:G:613:LYS:HD2	2:G:631:THR:HG22	1.70	0.74
2:G:1980:VAL:HA	2:G:1983:LEU:HD23	1.69	0.74
1:B:2079:MET:HG3	1:B:2080:PRO:HD2	1.68	0.74
2:A:1908:PHE:CZ	2:A:1971:LYS:HG2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:665:ILE:CG2	2:G:700:SER:HB2	2.18	0.74
2:G:1995:MET:SD	2:G:2173:MET:HE3	2.28	0.74
2:A:835:HIS:HA	2:A:839:MET:HE1	1.70	0.74
2:C:2101:ILE:HG13	2:C:2102:GLU:H	1.52	0.74
2:E:1952:PHE:HB3	2:E:2006:TRP:HE3	1.53	0.74
1:B:2297:LEU:HD23	2:A:1120:LYS:HA	1.70	0.73
2:C:1854:ILE:HD11	2:C:1866:LEU:HB2	1.69	0.73
2:G:1461:THR:HG23	2:G:1462:GLY:H	1.53	0.73
2:A:746:ILE:H	2:A:746:ILE:HD12	1.53	0.73
2:E:1171:MET:HE3	2:E:1328:MET:HG2	1.68	0.73
1:H:2070:ASN:HD21	1:H:2076:THR:HG22	1.52	0.73
2:A:798:ILE:HG13	2:A:799:ASN:H	1.53	0.73
2:A:1323:ILE:HG12	2:A:1331:GLU:HG3	1.69	0.73
2:E:617:LEU:CD2	2:E:622:GLN:HG3	2.17	0.73
2:G:2005:MET:CB	2:G:2013:LYS:HD3	2.17	0.73
2:C:1460:LEU:HD23	2:C:1479:ALA:HB1	1.71	0.73
2:C:2100:HIS:HB2	2:C:2154:VAL:HA	1.69	0.73
1:D:2174:VAL:HG13	1:D:2181:LYS:HB3	1.70	0.73
2:E:729:ARG:HG3	2:E:730:PRO:HD2	1.68	0.73
2:G:1899:LEU:HA	2:G:1902:VAL:HG12	1.70	0.73
2:A:665:ILE:HG22	2:A:700:SER:HB2	1.69	0.73
2:G:1602:ILE:HD13	2:G:1695:VAL:HG21	1.68	0.73
2:G:452:LEU:HD12	2:G:999:GLU:HG2	1.71	0.73
2:C:753:ASN:HB3	2:C:787:TYR:CE1	2.24	0.73
2:C:1966:GLU:HA	2:C:1969:LEU:HD12	1.71	0.73
2:E:1441:PHE:HB2	2:E:1478:LEU:HD12	1.69	0.73
2:G:1392:ASN:ND2	2:G:1417:ARG:O	2.21	0.73
2:C:1571:ARG:NH2	2:C:1743:ALA:O	2.22	0.72
2:E:2049:TYR:HB3	2:E:2053:VAL:HG22	1.71	0.72
2:G:1058:MET:HE3	2:G:1063:LEU:HD13	1.70	0.72
2:E:1986:GLU:N	2:E:1986:GLU:OE2	2.22	0.72
2:C:607:LEU:HD12	2:C:612:ILE:HD11	1.70	0.72
2:C:1615:VAL:HG11	2:C:1620:GLN:HB3	1.69	0.72
2:G:2097:LEU:N	2:G:2157:GLU:HB2	2.04	0.72
2:G:1352:GLU:HG2	2:G:1353:LEU:H	1.54	0.72
2:A:1725:GLU:HB3	2:A:1727:ARG:HD3	1.70	0.72
1:H:2162:MET:HE3	1:H:2202:TRP:HB3	1.71	0.72
2:A:803:LYS:HE2	2:A:803:LYS:HA	1.72	0.72
2:A:1055:HIS:HB2	2:A:1056:PRO:HD2	1.70	0.72
2:C:2046:ASN:O	2:C:2050:ALA:N	2.23	0.72
2:G:1419:TRP:CH2	2:G:1476:LEU:HB2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1546:LEU:HD22	2:A:1552:ILE:HD13	1.70	0.72
2:E:1930:VAL:HG13	2:E:1949:GLN:NE2	2.05	0.72
2:A:1796:MET:HE2	2:A:1796:MET:HA	1.69	0.72
2:C:1959:ILE:H	2:C:1959:ILE:HD12	1.54	0.72
2:C:2000:MET:CE	2:C:2007:ASP:HA	2.20	0.72
1:D:2057:ARG:NH2	2:C:1062:GLU:OE2	2.23	0.71
2:E:1353:LEU:HD22	2:E:1570:VAL:CG1	2.20	0.71
2:G:1980:VAL:HG13	2:G:1983:LEU:HD21	1.71	0.71
2:C:2005:MET:SD	2:C:2013:LYS:HB3	2.29	0.71
2:E:625:LYS:HB2	2:E:628:ILE:CG2	2.19	0.71
2:E:1452:ARG:HB2	2:E:1455:LYS:HE2	1.71	0.71
2:E:1987:GLY:HA3	2:E:2139:THR:HA	1.72	0.71
1:D:2207:LEU:HD23	1:D:2207:LEU:H	1.54	0.71
2:E:1902:VAL:HG11	2:E:1971:LYS:HE3	1.72	0.71
1:D:2153:THR:HG22	1:D:2190:VAL:HB	1.72	0.71
2:C:903:LEU:CD1	2:C:933:LEU:HD21	2.20	0.71
1:F:2159:LEU:HB2	1:F:2202:TRP:HH2	1.54	0.71
2:E:1566:PHE:HB3	2:E:1570:VAL:HG21	1.72	0.71
2:G:1037:ALA:HB2	2:G:1047:MET:HG3	1.72	0.71
2:A:801:ILE:HG22	2:A:802:LEU:HD12	1.72	0.71
2:G:1490:GLN:HB3	2:G:1493:ARG:HG2	1.72	0.71
2:A:537:PHE:HB3	2:A:538:PRO:HD3	1.72	0.71
1:D:2220:VAL:HG22	1:D:2221:ASP:H	1.55	0.71
2:G:2046:ASN:O	2:G:2048:ASN:N	2.23	0.71
2:G:2052:LEU:CD1	2:G:2055:ASP:HA	2.20	0.71
2:A:1614:PHE:CB	2:A:1739:MET:HE3	2.20	0.71
2:C:772:LEU:HB2	2:C:873:ALA:HB3	1.71	0.71
2:C:812:LEU:HD12	2:C:855:HIS:CD2	2.26	0.71
2:C:775:VAL:HG21	2:C:780:GLU:HG2	1.73	0.71
2:C:1622:ARG:NH2	2:C:1658:GLU:OE2	2.24	0.71
2:G:1101:ILE:HG12	2:G:1102:GLU:HG2	1.72	0.71
2:C:931:SER:CA	2:C:936:GLN:HB2	2.20	0.70
2:E:2097:LEU:HB2	2:E:2158:PHE:HE2	1.54	0.70
2:E:2115:VAL:HG11	2:E:2176:SER:HB3	1.73	0.70
1:H:2083:ILE:HD11	1:H:2244:GLY:HA3	1.73	0.70
2:A:561:ALA:HB1	2:A:661:ILE:HD13	1.72	0.70
2:C:801:ILE:O	2:C:804:HIS:ND1	2.23	0.70
2:C:1791:GLU:HB3	2:C:1797:ILE:CG1	2.20	0.70
1:D:2205:THR:HB	1:D:2206:PRO:HD2	1.71	0.70
2:C:775:VAL:HG21	2:C:780:GLU:CG	2.21	0.70
2:E:617:LEU:HD22	2:E:640:LYS:HG3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1989:LEU:HD23	2:G:1989:LEU:H	1.57	0.70
2:A:749:LEU:O	2:A:753:ASN:ND2	2.24	0.70
2:A:2074:TYR:HD1	2:A:2075:PRO:HD2	1.57	0.70
2:C:1393:THR:O	2:C:1538:ARG:NH2	2.24	0.70
1:B:2057:ARG:HD2	2:A:1057:ALA:CB	2.22	0.70
2:A:2059:THR:CG2	2:A:2062:GLN:HB2	2.19	0.70
2:C:1793:SER:HA	2:C:1865:PRO:HG3	1.74	0.70
2:C:2076:ASP:CB	2:C:2105:LEU:HD22	2.22	0.70
1:D:2120:MET:HE2	1:D:2246:PHE:HE1	1.55	0.70
2:C:614:VAL:HG22	2:C:633:VAL:HG21	1.74	0.70
2:E:1722:GLU:HG3	2:E:1724:LYS:HG2	1.71	0.70
1:H:2068:VAL:HG11	1:H:2235:GLN:HA	1.74	0.70
2:G:782:ALA:HB2	2:G:824:LEU:HD13	1.73	0.70
1:B:2079:MET:HE3	1:B:2115:ILE:HD12	1.74	0.70
2:C:2183:ASP:N	2:C:2184:PRO:HD3	2.06	0.70
2:E:498:PRO:HD3	2:E:734:ARG:HG3	1.73	0.70
2:E:736:GLU:HB2	2:E:918:ILE:HG21	1.74	0.70
2:E:1591:MET:HE1	2:E:1616:PRO:HG2	1.73	0.70
2:A:1715:VAL:HG22	2:A:1739:MET:HE2	1.73	0.70
2:C:537:PHE:HB3	2:C:538:PRO:HD3	1.74	0.70
2:G:825:LYS:HZ1	2:G:847:VAL:HG21	1.57	0.70
2:G:1392:ASN:CA	2:G:1417:ARG:HD2	2.22	0.70
2:C:665:ILE:CG2	2:C:700:SER:HB2	2.22	0.70
2:G:1548:ASN:HB3	2:G:1815:ARG:HH12	1.57	0.70
2:E:1460:LEU:HD22	2:E:1479:ALA:HB2	1.74	0.69
2:G:775:VAL:HG22	2:G:776:HIS:H	1.57	0.69
1:H:2159:LEU:HD21	1:H:2191:ALA:HB2	1.74	0.69
2:A:621:ARG:HG2	2:A:622:GLN:H	1.58	0.69
1:D:2079:MET:HE3	1:D:2115:ILE:HD12	1.73	0.69
2:C:2132:VAL:HG12	2:C:2133:GLY:H	1.56	0.69
2:C:1711:HIS:CE1	2:C:1747:SER:HB2	2.27	0.69
2:G:2000:MET:HE2	2:G:2007:ASP:HB3	1.72	0.69
2:A:1571:ARG:NH2	2:A:1743:ALA:O	2.25	0.69
2:C:1360:PRO:HB3	2:C:1377:GLN:HG2	1.73	0.69
2:G:607:LEU:HB2	2:G:612:ILE:HD11	1.74	0.69
2:A:1457:ILE:HG23	2:A:1476:LEU:HB3	1.73	0.69
2:A:1103:GLU:HB3	2:A:1104:PRO:HD2	1.74	0.69
2:C:1749:ASP:HB3	2:C:1751:ARG:HG2	1.74	0.69
2:C:2031:ILE:HD11	2:C:2040:GLN:HG2	1.75	0.69
2:E:870:ASN:HA	2:E:905:ARG:NH1	2.06	0.69
2:A:2135:GLU:OE1	2:A:2135:GLU:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:525:THR:HG23	2:C:526:THR:HG23	1.75	0.69
2:C:1408:THR:HG21	2:C:1440:ARG:HE	1.57	0.69
2:C:2155:LYS:HG2	2:C:2156:LEU:H	1.56	0.69
2:E:1571:ARG:HG2	2:E:1572:PRO:HD2	1.73	0.69
2:E:1614:PHE:CB	2:E:1739:MET:HE3	2.22	0.69
2:A:660:ILE:HD11	2:A:696:ILE:HG12	1.74	0.69
2:C:690:THR:HG23	2:C:692:GLU:H	1.57	0.69
2:E:828:LEU:HB2	2:E:829:PRO:HD3	1.73	0.69
2:G:820:ASN:HD22	2:G:825:LYS:HB3	1.57	0.69
2:G:2042:ASN:HB2	2:G:2043:PRO:HD2	1.75	0.69
2:A:797:THR:O	2:A:801:ILE:N	2.22	0.69
2:C:1785:PRO:HB2	2:C:1879:TYR:CE1	2.28	0.68
2:C:2134:GLU:HG2	2:C:2168:LEU:HB2	1.75	0.68
2:E:599:GLN:HA	2:E:602:ASN:HB3	1.75	0.68
1:F:2068:VAL:HG11	1:F:2235:GLN:CB	2.24	0.68
2:E:478:ARG:HB2	2:E:936:GLN:HE22	1.58	0.68
2:G:2011:PRO:HG2	2:G:2012:LEU:HD22	1.76	0.68
2:C:595:LEU:HD11	2:C:867:TRP:HE3	1.58	0.68
2:E:731:CYS:SG	2:E:909:PRO:HA	2.33	0.68
1:B:2049:ARG:NH1	1:B:2092:ASP:OD2	2.27	0.68
2:C:1574:PRO:HG2	2:C:1751:ARG:HB3	1.76	0.68
1:F:2098:ALA:O	1:F:2123:GLN:NE2	2.26	0.68
2:C:1037:ALA:HB2	2:C:1047:MET:HG3	1.75	0.68
2:E:1968:ILE:HA	2:E:1971:LYS:CB	2.24	0.68
1:H:2077:TYR:CD1	1:H:2186:LEU:HD11	2.29	0.68
2:G:2034:ILE:HD12	2:G:2074:TYR:CE2	2.28	0.68
2:G:2144:LYS:HD3	2:G:2156:LEU:CD1	2.22	0.68
2:A:590:ALA:HB3	2:A:596:VAL:CG1	2.24	0.68
2:A:992:TYR:CE2	2:A:1001:LYS:HD3	2.29	0.68
2:A:1997:MET:HA	2:A:2000:MET:HE2	1.76	0.68
2:E:2050:ALA:O	2:E:2054:LYS:HG3	1.94	0.68
2:E:1460:LEU:HD22	2:E:1479:ALA:CB	2.24	0.68
2:G:1363:ALA:HB1	2:G:1387:PHE:CE1	2.29	0.68
2:A:2103:ARG:NH1	2:A:2112:ASP:OD2	2.27	0.68
1:B:2101:LEU:HD22	1:B:2115:ILE:HD13	1.76	0.68
2:A:1614:PHE:HB2	2:A:1739:MET:HE3	1.75	0.68
2:A:2147:THR:O	2:A:2152:LEU:HD11	1.92	0.68
2:C:452:LEU:O	2:C:963:ARG:NH1	2.27	0.68
2:C:1615:VAL:CG1	2:C:1620:GLN:HB3	2.23	0.68
2:C:2137:THR:HG23	2:C:2138:LYS:H	1.58	0.68
2:G:1820:PRO:HB2	2:G:1825:LEU:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2005:MET:HE1	2:G:2009:ASP:HB3	1.75	0.68
2:G:2115:VAL:HB	2:G:2126:GLU:H	1.59	0.68
1:B:2139:HIS:HB3	1:B:2142:LEU:HD12	1.76	0.68
2:A:587:VAL:HB	2:A:660:ILE:HG22	1.75	0.68
2:A:2000:MET:SD	2:A:2007:ASP:HA	2.34	0.68
2:A:2074:TYR:CD1	2:A:2075:PRO:HD2	2.29	0.68
2:E:581:LEU:H	2:E:581:LEU:HD23	1.59	0.68
1:H:2065:VAL:HG21	1:H:2238:LEU:HD13	1.75	0.68
2:A:835:HIS:HA	2:A:839:MET:CE	2.24	0.67
2:C:903:LEU:HD13	2:C:933:LEU:HD21	1.74	0.67
2:C:2031:ILE:HG23	2:C:2037:PHE:HB2	1.76	0.67
2:A:1925:TYR:O	2:A:1931:LYS:NZ	2.27	0.67
1:D:2119:VAL:HG11	1:D:2137:PRO:HG3	1.74	0.67
2:C:1872:ALA:HA	2:C:1877:ILE:HG22	1.76	0.67
2:C:2182:GLN:HB3	2:C:2184:PRO:HD3	1.76	0.67
2:E:625:LYS:HD3	2:E:650:ASP:CG	2.19	0.67
2:E:2103:ARG:NH1	2:E:2149:GLY:O	2.28	0.67
2:G:1618:ARG:HD3	2:G:1674:GLU:HG3	1.76	0.67
2:G:1784:LEU:CD1	2:G:1840:LEU:HD21	2.24	0.67
2:A:574:ASN:ND2	2:A:577:GLY:O	2.27	0.67
2:A:2130:LEU:HD21	2:A:2172:LEU:HD13	1.75	0.67
1:D:2101:LEU:HD21	1:D:2151:ILE:CD1	2.24	0.67
2:C:1471:LEU:HD12	2:C:1472:GLU:N	2.10	0.67
2:G:1232:ARG:NH1	2:G:1256:ASN:O	2.28	0.67
2:C:734:ARG:N	2:C:915:GLY:O	2.23	0.67
2:C:1022:ASP:HB3	2:C:1025:THR:CG2	2.24	0.67
1:F:2216:LYS:C	1:F:2218:PRO:HD3	2.20	0.67
2:E:1908:PHE:CD1	2:E:1967:VAL:HG13	2.29	0.67
1:B:2300:ILE:HG13	2:A:1127:MET:HE3	1.76	0.67
2:A:585:LYS:NZ	2:A:629:SER:O	2.28	0.67
2:A:1898:ILE:HD11	2:A:1997:MET:SD	2.35	0.67
2:A:2042:ASN:CG	2:A:2043:PRO:HD2	2.20	0.67
1:D:2084:LEU:HD21	1:D:2199:LEU:HD11	1.77	0.67
2:E:665:ILE:CG2	2:E:700:SER:HB2	2.25	0.67
2:E:2002:VAL:HG11	2:E:2176:SER:HA	1.76	0.67
2:C:2019:THR:HB	2:C:2020:PRO:HD2	1.77	0.67
2:C:2076:ASP:HB3	2:C:2105:LEU:HD22	1.76	0.67
2:E:1890:SER:HA	2:E:1988:HIS:ND1	2.09	0.67
2:A:1419:TRP:CH2	2:A:1476:LEU:HB2	2.29	0.67
2:C:1429:TYR:HB3	2:C:1478:LEU:CD2	2.25	0.67
1:F:2227:THR:N	1:F:2230:MET:SD	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:825:LYS:HE3	2:E:834:ILE:HG22	1.77	0.67
2:E:2079:LEU:HD11	2:E:2184:PRO:HG2	1.76	0.67
2:G:1380:ASN:HD21	2:G:1572:PRO:HB3	1.59	0.67
2:A:1232:ARG:NH1	2:A:1256:ASN:O	2.28	0.67
2:G:789:ARG:HD3	2:G:827:LEU:CD1	2.24	0.67
1:B:2057:ARG:NH1	2:A:1062:GLU:OE2	2.28	0.67
2:E:507:ASP:HB3	2:E:531:LYS:HE2	1.77	0.67
2:G:1393:THR:HG22	2:G:1394:ASP:H	1.60	0.67
2:G:1396:ASN:ND2	2:G:1558:ALA:HB2	2.09	0.67
2:A:835:HIS:HB3	2:A:861:CYS:HB3	1.76	0.66
2:A:1207:PRO:CG	2:A:1208:PRO:HD3	2.24	0.66
2:E:507:ASP:OD1	2:E:507:ASP:N	2.28	0.66
2:E:1249:ILE:HD11	2:E:1320:ILE:HD11	1.76	0.66
2:G:1067:PHE:CE2	2:G:1112:LEU:HD22	2.30	0.66
2:G:2138:LYS:HA	2:G:2138:LYS:HZ3	1.60	0.66
1:B:2080:PRO:HG2	1:B:2083:ILE:HG12	1.77	0.66
1:B:2220:VAL:HG13	1:B:2222:ASN:H	1.60	0.66
2:C:521:ILE:H	2:C:521:ILE:HD12	1.60	0.66
2:C:2005:MET:HG3	2:C:2178:VAL:HG22	1.76	0.66
1:F:2124:ILE:HG23	1:F:2131:GLN:HB2	1.77	0.66
2:E:2046:ASN:CG	2:E:2047:PRO:HD2	2.21	0.66
2:G:537:PHE:HB3	2:G:538:PRO:HD3	1.77	0.66
2:A:532:ILE:HD12	2:A:724:PHE:CD2	2.30	0.66
2:A:753:ASN:HB3	2:A:787:TYR:CE1	2.31	0.66
2:A:2097:LEU:HB2	2:A:2158:PHE:HE2	1.60	0.66
2:C:1644:VAL:CG1	2:C:1649:ILE:HD11	2.25	0.66
2:E:1103:GLU:HB3	2:E:1104:PRO:HD2	1.77	0.66
2:E:1429:TYR:HB3	2:E:1478:LEU:CD2	2.25	0.66
1:H:2227:THR:CG2	1:H:2229:THR:HG22	2.25	0.66
2:A:1243:THR:HG23	2:A:1347:PHE:CE1	2.29	0.66
2:A:1924:ILE:HG23	2:A:1955:MET:HE1	1.77	0.66
2:C:772:LEU:HD21	2:C:859:LEU:HD23	1.78	0.66
2:A:646:ARG:HA	2:A:957:LEU:HD11	1.77	0.66
2:A:1124:LEU:H	2:A:1124:LEU:HD12	1.60	0.66
2:C:1576:GLU:OE1	2:C:1753:ARG:NH1	2.29	0.66
2:C:2029:TYR:CE2	2:C:2053:VAL:HG22	2.31	0.66
1:F:2251:THR:HG23	1:F:2253:LYS:H	1.61	0.66
2:G:590:ALA:HB3	2:G:596:VAL:HG12	1.77	0.66
2:G:1249:ILE:CD1	2:G:1320:ILE:HD11	2.26	0.66
2:G:1357:GLN:HG3	2:G:1358:PRO:HD2	1.78	0.66
1:B:2101:LEU:HD21	1:B:2151:ILE:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2111:GLN:N	1:B:2111:GLN:OE1	2.28	0.66
2:A:1185:PRO:HD2	2:A:1188:ILE:HD11	1.78	0.66
1:F:2211:TRP:CD2	1:F:2230:MET:HE1	2.31	0.66
2:E:2165:LYS:HG2	2:E:2189:ASN:HA	1.76	0.66
2:G:1422:LYS:HE3	2:G:1424:ALA:H	1.61	0.66
2:G:1587:PHE:HZ	2:G:1616:PRO:HG2	1.60	0.66
2:A:608:GLU:N	2:A:609:PRO:HD2	2.11	0.66
2:A:1622:ARG:NH1	2:A:1960:ASP:OD1	2.29	0.66
2:C:2005:MET:HG3	2:C:2178:VAL:CG2	2.25	0.66
1:F:2180:TRP:O	1:F:2182:ASN:ND2	2.28	0.66
2:G:1894:LYS:H	2:G:1988:HIS:CE1	2.13	0.66
2:A:1460:LEU:HB2	2:A:1479:ALA:HB2	1.77	0.66
2:A:1992:LEU:CD2	2:A:2173:MET:HG3	2.26	0.66
1:D:2079:MET:HE1	1:D:2151:ILE:HD11	1.77	0.66
2:C:736:GLU:HB2	2:C:918:ILE:HD12	1.77	0.66
1:F:2086:LYS:HE3	1:F:2278:PRO:HG2	1.76	0.66
2:G:593:LYS:HA	2:G:596:VAL:HG22	1.78	0.66
2:G:760:VAL:O	2:G:764:VAL:HG22	1.96	0.66
2:G:1426:ARG:HD3	2:G:1475:ASP:HA	1.76	0.66
2:C:632:GLN:O	2:C:633:VAL:HG22	1.95	0.66
2:C:1035:ARG:NH1	2:C:1146:GLU:OE2	2.29	0.66
2:C:1991:ALA:CB	2:C:2141:LEU:HD11	2.26	0.66
2:E:1853:ILE:HG22	2:E:1854:ILE:HG23	1.77	0.66
2:E:2019:THR:HB	2:E:2020:PRO:HD2	1.78	0.66
2:E:2085:ASP:HB3	2:E:2088:ASN:HB3	1.78	0.66
2:A:1195:MET:SD	2:A:1214:LEU:HA	2.35	0.66
2:C:811:VAL:HG12	2:C:812:LEU:HD23	1.77	0.66
2:G:1353:LEU:O	2:G:1354:LEU:HD22	1.95	0.66
2:A:1063:LEU:HD23	2:A:1163:MET:HE2	1.78	0.65
2:A:1724:LYS:HG3	2:A:1725:GLU:HG2	1.77	0.65
2:C:1718:THR:HG21	2:C:1758:LEU:HB3	1.77	0.65
2:E:1920:ILE:H	2:E:1920:ILE:HD12	1.61	0.65
2:G:782:ALA:CB	2:G:824:LEU:HD13	2.26	0.65
2:G:841:ARG:HG2	2:G:845:THR:CG2	2.26	0.65
2:C:482:GLY:HA3	2:C:497:PRO:HG3	1.78	0.65
2:E:1591:MET:CE	2:E:1616:PRO:HG2	2.26	0.65
2:E:1978:ALA:C	2:E:1982:ILE:HD11	2.21	0.65
2:G:792:ALA:HB1	2:G:797:THR:HB	1.77	0.65
2:G:1411:ALA:HB2	2:G:1542:LEU:HD11	1.76	0.65
2:A:1364:LEU:HD23	2:A:1369:TYR:HB3	1.77	0.65
2:E:626:GLN:HG2	2:E:1266:VAL:HG21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:708:ASP:OD2	2:E:978:ARG:NH1	2.29	0.65
2:E:1323:ILE:HG12	2:E:1331:GLU:HG3	1.77	0.65
2:E:1576:GLU:OE2	2:E:1753:ARG:NH1	2.29	0.65
2:G:961:ARG:HH22	2:G:1029:GLN:HG3	1.62	0.65
2:G:1224:CYS:HA	2:G:1227:VAL:HG12	1.78	0.65
2:G:1784:LEU:HD11	2:G:1840:LEU:HD21	1.78	0.65
2:A:472:MET:HE2	2:A:928:TYR:HA	1.78	0.65
2:C:771:MET:CE	2:C:877:ILE:HD12	2.27	0.65
2:C:1021:TYR:CE1	2:C:1028:MET:HE2	2.32	0.65
2:E:2018:PHE:HD2	2:E:2023:VAL:HG12	1.60	0.65
2:G:1428:VAL:HG21	2:G:1484:TRP:HZ2	1.61	0.65
2:A:1504:ILE:HD13	2:A:1540:VAL:HG13	1.78	0.65
2:C:581:LEU:CD2	2:C:612:ILE:HG22	2.26	0.65
2:C:607:LEU:CD1	2:C:612:ILE:HD11	2.25	0.65
2:C:1903:THR:HG21	2:C:1945:PHE:CA	2.23	0.65
2:C:2172:LEU:CD1	2:C:2182:GLN:HB2	2.26	0.65
2:G:587:VAL:HB	2:G:660:ILE:HG22	1.78	0.65
2:G:1413:PHE:O	2:G:1417:ARG:HG2	1.97	0.65
2:G:1778:SER:O	2:G:1781:HIS:NE2	2.28	0.65
2:A:1672:TYR:CD1	2:A:1702:VAL:HG11	2.32	0.65
2:C:614:VAL:HG22	2:C:633:VAL:CG2	2.26	0.65
2:C:1404:GLY:H	2:C:1407:LYS:HE2	1.62	0.65
2:E:482:GLY:HA3	2:E:497:PRO:HG3	1.79	0.65
1:H:2303:ASP:OD1	2:G:778:ARG:NH2	2.28	0.65
2:G:593:LYS:NZ	2:G:597:GLN:OE1	2.29	0.65
2:G:785:ALA:HB1	2:G:827:LEU:HD21	1.79	0.65
2:G:2014:GLN:HB3	2:G:2069:PHE:CZ	2.32	0.65
1:D:2248:VAL:HB	1:D:2249:PRO:HD2	1.79	0.65
2:E:770:GLN:N	2:E:770:GLN:OE1	2.29	0.65
2:G:932:LEU:HD13	2:G:937:LEU:HD23	1.79	0.65
2:G:2095:ALA:O	2:G:2157:GLU:HB3	1.96	0.65
2:A:665:ILE:CG2	2:A:700:SER:HB2	2.26	0.65
2:A:1983:LEU:HB2	2:A:2140:LEU:HD21	1.77	0.65
2:C:973:THR:HG23	2:C:976:PHE:H	1.62	0.65
2:E:761:LEU:HA	2:E:764:VAL:HG12	1.79	0.65
2:E:2042:ASN:N	2:E:2045:GLU:OE1	2.30	0.65
2:E:2127:ASN:HD22	2:E:2145:ARG:HE	1.44	0.65
2:G:1951:HIS:O	2:G:2004:ALA:HB1	1.96	0.65
2:C:562:MET:HE3	2:C:607:LEU:HD21	1.77	0.65
2:C:1207:PRO:CG	2:C:1208:PRO:HD3	2.26	0.65
2:C:1403:THR:HA	2:C:1407:LYS:CE	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2053:THR:HG22	1:F:2056:LEU:HD13	1.78	0.65
2:E:460:LEU:H	2:E:460:LEU:HD12	1.61	0.65
2:G:1084:LEU:HD23	2:G:1084:LEU:H	1.62	0.65
2:G:1392:ASN:HA	2:G:1417:ARG:CB	2.24	0.65
2:G:1894:LYS:HG2	2:G:1990:ASN:HD22	1.62	0.65
2:A:621:ARG:HD3	2:A:622:GLN:HE21	1.62	0.64
2:A:1037:ALA:HB2	2:A:1047:MET:HG3	1.78	0.64
2:A:1390:LEU:HA	2:A:1538:ARG:HH22	1.62	0.64
2:C:1210:MET:HE1	2:C:1224:CYS:N	2.12	0.64
2:C:1481:PRO:HB2	2:C:1518:ILE:HG23	1.79	0.64
2:E:1312:GLU:HB3	2:E:1313:PRO:HD3	1.80	0.64
2:G:771:MET:HE2	2:G:773:ILE:HD11	1.78	0.64
2:G:1065:ARG:CZ	2:G:1099:GLU:HG2	2.27	0.64
2:G:1799:SER:N	2:G:1863:VAL:HG11	2.11	0.64
1:B:2304:ARG:NH2	2:A:1135:GLN:OE1	2.29	0.64
2:A:760:VAL:O	2:A:764:VAL:HG22	1.97	0.64
2:A:1979:ILE:HG12	2:A:1994:ALA:CB	2.27	0.64
2:A:2111:PHE:HD1	2:A:2113:PRO:HD3	1.62	0.64
2:C:1353:LEU:HD21	2:C:1381:LYS:HE3	1.78	0.64
1:F:2053:THR:HA	1:F:2056:LEU:HD12	1.78	0.64
2:A:613:LYS:H	2:A:632:GLN:HG2	1.62	0.64
2:A:2015:ILE:HD13	2:A:2069:PHE:CE2	2.32	0.64
2:C:806:ALA:HB3	2:C:808:THR:HG22	1.79	0.64
2:C:1793:SER:HA	2:C:1865:PRO:CB	2.26	0.64
2:E:1743:ALA:C	2:E:1744:LEU:HD12	2.23	0.64
1:H:2101:LEU:HD21	1:H:2151:ILE:HD11	1.78	0.64
1:H:2106:PRO:CD	1:H:2112:VAL:HG13	2.27	0.64
2:G:565:MET:HE3	2:G:633:VAL:HG21	1.78	0.64
2:G:1428:VAL:HG11	2:G:1484:TRP:CZ2	2.32	0.64
2:A:1491:TRP:CE3	2:A:1529:ILE:HG12	2.32	0.64
2:A:1685:LYS:O	2:A:1689:ASN:ND2	2.25	0.64
2:C:1997:MET:HE1	2:C:2000:MET:HE3	1.79	0.64
1:H:2119:VAL:HG11	1:H:2137:PRO:HG3	1.79	0.64
2:G:825:LYS:HZ1	2:G:839:MET:HE1	1.61	0.64
2:G:1426:ARG:HG3	2:G:1499:THR:HG21	1.78	0.64
2:G:1908:PHE:CE1	2:G:1967:VAL:HG13	2.32	0.64
1:D:2289:ILE:H	1:D:2289:ILE:HD12	1.62	0.64
2:C:1387:PHE:HB2	2:C:1391:TYR:CZ	2.33	0.64
2:C:1571:ARG:NH2	2:C:1744:LEU:HD23	2.10	0.64
2:C:1972:ILE:HG13	2:C:1973:LEU:N	2.11	0.64
2:C:1999:GLN:NE2	2:C:2177:TYR:O	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2042:ASN:OD1	2:C:2045:GLU:HB2	1.98	0.64
1:F:2298:GLU:OE1	1:F:2298:GLU:N	2.29	0.64
2:G:822:THR:CG2	2:G:825:LYS:HD3	2.28	0.64
2:G:1895:LEU:HD23	2:G:1896:ARG:H	1.62	0.64
2:C:532:ILE:HG23	2:C:533:GLN:HG3	1.80	0.64
2:C:670:ASP:OD1	2:C:671:ASP:N	2.30	0.64
2:C:729:ARG:CG	2:C:730:PRO:HD2	2.28	0.64
2:C:1924:ILE:HD11	2:C:1946:VAL:CB	2.28	0.64
1:F:2296:GLU:OE1	1:F:2296:GLU:N	2.31	0.64
2:E:1460:LEU:HD13	2:E:1477:ILE:HG23	1.79	0.64
2:A:1064:PHE:HB3	2:A:1109:ASN:ND2	2.13	0.64
2:A:1944:ALA:HB1	2:A:1971:LYS:HZ3	1.62	0.64
2:C:996:VAL:HG13	2:C:997:ALA:H	1.63	0.64
1:B:2308:PHE:O	2:A:640:LYS:NZ	2.31	0.64
2:A:1577:LEU:HD11	2:A:1770:LEU:HD23	1.78	0.64
2:E:539:THR:HG23	2:E:719:LYS:HD2	1.79	0.64
2:E:1537:MET:HE3	2:E:1539:ILE:HD11	1.80	0.64
1:H:2079:MET:HE3	1:H:2115:ILE:HD12	1.79	0.64
2:G:1426:ARG:NH1	2:G:1471:LEU:O	2.31	0.64
2:G:1574:PRO:CB	2:G:1751:ARG:HG2	2.20	0.64
2:G:1613:VAL:HG22	2:G:1714:VAL:CG2	2.27	0.64
2:A:781:THR:HG23	2:A:834:ILE:HD11	1.79	0.64
2:A:786:LYS:HE3	2:A:824:LEU:CD2	2.28	0.64
1:D:2104:CYS:SG	1:D:2116:ARG:NH2	2.71	0.64
2:G:515:LEU:CB	2:G:516:PRO:HD2	2.12	0.64
2:G:1458:VAL:CG2	2:G:1477:ILE:HG22	2.28	0.64
2:G:1894:LYS:HE3	2:G:1898:ILE:HG12	1.79	0.64
2:A:2009:ASP:OD1	2:A:2009:ASP:N	2.24	0.64
1:H:2162:MET:SD	1:H:2167:VAL:HG22	2.38	0.64
2:G:614:VAL:HG22	2:G:633:VAL:CG1	2.28	0.64
2:A:737:PHE:HE2	2:A:933:LEU:HD12	1.63	0.63
2:E:767:ASN:O	2:E:769:ASN:N	2.27	0.63
2:G:1914:ARG:NH1	2:G:1917:GLU:OE1	2.32	0.63
2:C:778:ARG:O	2:C:781:THR:HG22	1.96	0.63
2:C:2005:MET:HE2	2:C:2178:VAL:HG11	1.79	0.63
2:C:2134:GLU:CD	2:C:2168:LEU:HD13	2.24	0.63
2:E:753:ASN:HB3	2:E:787:TYR:CE2	2.33	0.63
2:E:2047:PRO:HG2	2:E:2049:TYR:CE2	2.33	0.63
1:H:2136:LEU:HD21	1:H:2180:TRP:HE1	1.64	0.63
2:A:1191:LYS:CE	2:A:1195:MET:HE3	2.28	0.63
2:C:1457:ILE:HG22	2:C:1476:LEU:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1467:ASP:HA	2:C:1470:LEU:CD2	2.29	0.63
2:C:1884:MET:HE2	2:C:1905:ALA:HA	1.79	0.63
2:E:2034:ILE:HG12	2:E:2074:TYR:CD2	2.33	0.63
2:G:1875:TYR:CE1	2:G:1976:LEU:HD11	2.33	0.63
2:G:2183:ASP:CG	2:G:2184:PRO:HD3	2.23	0.63
2:A:589:ILE:HD12	2:A:662:ILE:CD1	2.29	0.63
2:A:1009:ALA:O	2:A:1012:VAL:HG22	1.99	0.63
2:A:1359:LEU:HG	2:A:1384:THR:HG22	1.80	0.63
2:C:1195:MET:HB3	2:C:1197:VAL:HG22	1.79	0.63
2:C:2002:VAL:HG21	2:C:2176:SER:CB	2.29	0.63
2:G:1241:PRO:HG3	2:G:1821:SER:HB2	1.79	0.63
2:A:625:LYS:CD	2:A:644:ILE:HD11	2.27	0.63
1:D:2079:MET:HE3	1:D:2115:ILE:CD1	2.29	0.63
2:C:1718:THR:CG2	2:C:1758:LEU:HB3	2.28	0.63
2:G:1525:ARG:NH2	2:G:1791:GLU:OE1	2.31	0.63
1:B:2299:ASP:OD1	1:B:2300:ILE:N	2.32	0.63
2:C:480:PRO:HG2	2:C:496:VAL:CG1	2.29	0.63
2:C:1678:GLN:O	2:C:1682:ARG:HG3	1.97	0.63
2:C:2090:ARG:NH2	2:C:2164:GLY:O	2.32	0.63
2:C:2135:GLU:CG	2:C:2139:THR:HG22	2.29	0.63
2:A:1530:ARG:HD3	2:A:1537:MET:HE2	1.81	0.63
2:A:1911:ILE:HD13	2:A:1912:GLN:H	1.63	0.63
2:C:605:LYS:HE2	2:C:605:LYS:HA	1.81	0.63
2:E:1502:LEU:HD21	2:E:1504:ILE:HG13	1.78	0.63
1:H:2300:ILE:CD1	2:G:1130:MET:HE1	2.29	0.63
2:G:471:LEU:HD21	2:G:473:THR:HG23	1.81	0.63
2:G:500:LYS:NZ	2:G:502:ARG:HB2	2.14	0.63
2:G:589:ILE:HD12	2:G:662:ILE:CD1	2.29	0.63
2:G:801:ILE:HD13	2:G:803:LYS:CE	2.29	0.63
2:A:454:PRO:HD3	2:A:963:ARG:NH1	2.14	0.63
2:A:1247:LEU:HD13	2:A:1310:ILE:CG1	2.23	0.63
2:A:1944:ALA:HB1	2:A:1971:LYS:NZ	2.14	0.63
2:C:620:ASP:CA	2:C:623:LEU:HB2	2.25	0.63
2:A:1428:VAL:HG22	2:A:1477:ILE:HD11	1.81	0.63
2:C:532:ILE:HG13	2:C:724:PHE:CD2	2.34	0.63
2:C:1426:ARG:NE	2:C:1496:ASN:HB3	2.14	0.63
2:C:2117:ALA:HA	2:C:2119:PHE:CE1	2.34	0.63
2:G:1849:SER:HA	2:G:1854:ILE:HG22	1.80	0.63
2:G:1968:ILE:HA	2:G:1971:LYS:HB2	1.79	0.63
2:A:1774:LEU:HD12	2:A:1775:PRO:HD2	1.80	0.62
2:C:581:LEU:HD23	2:C:612:ILE:HG22	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1503:PHE:HD2	2:C:1539:ILE:HG23	1.64	0.62
2:G:452:LEU:O	2:G:963:ARG:NH1	2.30	0.62
2:G:1248:ARG:NH2	2:G:1305:GLU:OE1	2.27	0.62
2:A:725:ASP:OD1	2:A:726:GLY:N	2.32	0.62
1:D:2136:LEU:HD21	1:D:2177:HIS:CG	2.34	0.62
2:C:874:HIS:CA	2:C:907:GLY:HA2	2.19	0.62
2:C:2029:TYR:CZ	2:C:2056:LEU:HD22	2.34	0.62
2:E:1743:ALA:HB1	2:E:1752:SER:OG	2.00	0.62
2:E:1893:SER:HB2	2:E:1990:ASN:ND2	2.14	0.62
2:E:1983:LEU:CD2	2:E:2143:ILE:HD13	2.28	0.62
2:G:532:ILE:HD11	2:G:724:PHE:CG	2.34	0.62
2:G:1555:TRP:HA	2:G:1814:ARG:HH21	1.64	0.62
1:B:2253:LYS:NZ	1:B:2278:PRO:HA	2.14	0.62
2:A:1235:ILE:HD11	2:A:1334:MET:HB3	1.82	0.62
1:D:2142:LEU:HA	1:D:2145:LEU:HD12	1.81	0.62
2:C:590:ALA:HB3	2:C:596:VAL:HG12	1.81	0.62
2:C:980:LEU:HD23	2:C:998:LEU:HD12	1.80	0.62
2:C:1429:TYR:CD2	2:C:1478:LEU:HD22	2.34	0.62
2:C:2135:GLU:HG2	2:C:2139:THR:HG22	1.81	0.62
2:E:732:PRO:O	2:E:915:GLY:N	2.31	0.62
2:E:2138:LYS:HD2	2:E:2138:LYS:O	1.99	0.62
2:G:608:GLU:HB3	2:G:609:PRO:HD3	1.82	0.62
2:G:1303:THR:OG1	2:G:1727:ARG:NH2	2.33	0.62
2:G:2045:GLU:O	2:G:2046:ASN:HB2	1.99	0.62
2:A:1458:VAL:CG2	2:A:1477:ILE:HG22	2.29	0.62
2:C:1357:GLN:HG3	2:C:1358:PRO:HD2	1.82	0.62
2:C:1389:SER:HG	2:C:1564:TYR:HH	1.42	0.62
1:F:2079:MET:HE3	1:F:2115:ILE:CD1	2.29	0.62
2:E:2042:ASN:HB2	2:E:2043:PRO:HD2	1.81	0.62
1:B:2253:LYS:HG3	1:B:2279:LEU:HB2	1.81	0.62
2:A:453:GLN:CG	2:A:454:PRO:HD2	2.29	0.62
2:A:2165:LYS:HE3	2:C:1934:ASN:ND2	2.14	0.62
2:C:541:PHE:O	2:C:567:ARG:NH2	2.32	0.62
1:B:2079:MET:HE3	1:B:2115:ILE:CD1	2.30	0.62
2:A:574:ASN:HD21	2:A:578:GLU:HG2	1.64	0.62
2:C:803:LYS:HB2	2:C:803:LYS:NZ	2.14	0.62
2:C:1358:PRO:HB2	2:C:1378:GLN:CB	2.28	0.62
2:E:501:LYS:HG2	2:E:727:SER:HB2	1.80	0.62
2:E:1432:PRO:HD2	2:E:1436:LEU:HD13	1.80	0.62
2:E:1888:SER:HB2	2:E:1901:ILE:HD13	1.82	0.62
2:G:561:ALA:HB1	2:G:661:ILE:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:887:GLU:HG3	2:G:1132:TYR:CE1	2.34	0.62
2:G:1428:VAL:HG22	2:G:1477:ILE:HD11	1.81	0.62
2:G:1648:GLN:C	2:G:1649:ILE:HD12	2.24	0.62
2:G:1954:ARG:NH2	2:G:2013:LYS:HB2	2.15	0.62
2:A:625:LYS:HE2	2:A:640:LYS:HE3	1.81	0.62
2:C:1911:ILE:CD1	2:C:1966:GLU:HG2	2.29	0.62
2:E:1056:PRO:HG3	2:E:1153:TRP:CE2	2.34	0.62
2:E:1718:THR:HA	2:E:1731:TYR:CD2	2.34	0.62
1:H:2300:ILE:HG22	1:H:2302:VAL:H	1.63	0.62
1:B:2083:ILE:HD12	1:B:2118:ILE:HG13	1.80	0.62
1:B:2090:ILE:HD11	1:B:2278:PRO:HG2	1.81	0.62
2:A:2093:GLU:HB3	2:A:2094:PRO:HD2	1.82	0.62
2:E:532:ILE:HD11	2:E:724:PHE:CD2	2.35	0.62
2:E:1407:LYS:NZ	2:E:1543:SER:O	2.32	0.62
1:H:2059:ARG:NH1	1:H:2193:THR:O	2.33	0.62
2:G:1980:VAL:HA	2:G:1983:LEU:CD2	2.29	0.62
2:G:2085:ASP:OD2	2:G:2088:ASN:HB3	1.99	0.62
2:G:2115:VAL:H	2:G:2125:SER:HB3	1.63	0.62
2:A:1530:ARG:CD	2:A:1537:MET:HB3	2.26	0.62
2:A:2020:PRO:HA	2:A:2023:VAL:HG22	1.82	0.62
2:C:649:THR:O	2:C:1586:HIS:ND1	2.32	0.62
2:C:923:GLN:HA	2:C:926:ILE:HD13	1.82	0.62
2:C:1386:THR:HG22	2:C:1564:TYR:CD1	2.34	0.62
2:C:1571:ARG:NH1	2:C:1573:VAL:O	2.32	0.62
2:E:936:GLN:O	2:E:938:PRO:HD3	2.00	0.62
2:A:772:LEU:HD11	2:A:876:VAL:HG22	1.82	0.62
2:A:2054:LYS:HB2	2:A:2054:LYS:NZ	2.13	0.62
2:C:1590:LEU:HD11	2:C:1594:MET:HE3	1.80	0.62
2:C:1924:ILE:CD1	2:C:1946:VAL:HB	2.29	0.62
2:G:1103:GLU:HB2	2:G:1104:PRO:HD2	1.80	0.62
2:A:1685:LYS:HG3	2:A:1708:PHE:HE1	1.63	0.61
2:C:1067:PHE:CE2	2:C:1112:LEU:HD22	2.34	0.61
1:F:2064:TYR:N	1:F:2197:VAL:O	2.33	0.61
2:E:1982:ILE:HD13	2:E:1991:ALA:HB1	1.81	0.61
2:G:1894:LYS:NZ	2:G:1901:ILE:HD12	2.15	0.61
2:A:500:LYS:HE3	2:A:502:ARG:HB3	1.82	0.61
2:C:686:ARG:O	2:C:690:THR:HG22	2.00	0.61
2:C:1264:HIS:O	2:C:1326:ARG:NH1	2.30	0.61
2:C:1774:LEU:HD12	2:C:1775:PRO:HD2	1.82	0.61
2:G:1792:ILE:HG21	2:G:1854:ILE:CD1	2.25	0.61
2:G:1930:VAL:HG22	2:G:1949:GLN:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:663:ASP:HA	2:C:699:LEU:HB2	1.80	0.61
2:C:729:ARG:HH21	2:C:904:GLY:HA2	1.65	0.61
2:C:1025:THR:HG23	2:C:1027:LYS:HG2	1.82	0.61
2:C:1458:VAL:CG2	2:C:1477:ILE:HG22	2.30	0.61
2:C:1852:ARG:O	2:C:1853:ILE:HG13	1.99	0.61
2:E:926:ILE:N	2:E:927:PRO:HD2	2.15	0.61
2:E:1203:PHE:HB3	2:E:1232:ARG:NH2	2.15	0.61
2:G:822:THR:HG23	2:G:825:LYS:HB2	1.80	0.61
2:G:1433:PHE:HB2	2:G:1436:LEU:HD23	1.80	0.61
2:G:1629:LEU:HD12	2:G:1630:THR:N	2.15	0.61
2:C:1358:PRO:HB2	2:C:1378:GLN:HG3	1.83	0.61
1:F:2053:THR:HA	1:F:2056:LEU:CD1	2.31	0.61
1:F:2149:GLY:HA2	1:F:2180:TRP:CZ3	2.35	0.61
2:E:541:PHE:HB3	2:E:542:LEU:HD22	1.82	0.61
2:E:1865:PRO:CB	2:E:1870:MET:HE2	2.29	0.61
2:E:2021:GLU:O	2:E:2024:LYS:HG2	2.00	0.61
2:E:2169:LYS:HD2	2:E:2183:ASP:HB2	1.82	0.61
2:G:1145:PHE:CE1	2:G:1161:LEU:HB2	2.35	0.61
2:G:1794:THR:HG22	2:G:1796:MET:HG2	1.83	0.61
2:G:1836:TYR:CD2	2:G:1837:LEU:HD12	2.34	0.61
2:A:574:ASN:ND2	2:A:578:GLU:HG2	2.16	0.61
2:A:1486:VAL:HA	2:A:1489:ARG:HD3	1.81	0.61
1:D:2214:GLU:HG2	1:D:2216:LYS:HZ1	1.65	0.61
2:C:1491:TRP:CH2	2:C:1796:MET:HG3	2.35	0.61
2:C:1854:ILE:CG2	2:C:1863:VAL:HG22	2.30	0.61
2:E:654:THR:O	2:E:657:VAL:HG22	2.00	0.61
2:E:1421:LYS:O	2:E:1423:ASP:N	2.33	0.61
1:H:2083:ILE:HG23	1:H:2246:PHE:CE1	2.35	0.61
2:G:1788:PHE:O	2:G:1792:ILE:HG12	2.01	0.61
2:A:1998:SER:O	2:A:2002:VAL:HG23	2.01	0.61
2:C:1314:MET:HE3	2:C:1343:LEU:HD11	1.82	0.61
2:C:1889:LEU:CD1	2:C:1901:ILE:HD13	2.31	0.61
2:C:2045:GLU:O	2:C:2048:ASN:N	2.33	0.61
1:F:2068:VAL:HG11	1:F:2235:GLN:HB2	1.82	0.61
1:F:2092:ASP:OD1	1:F:2093:LEU:N	2.33	0.61
2:G:2025:VAL:CG2	2:G:2056:LEU:HD22	2.31	0.61
1:B:2255:ASN:HB3	1:B:2286:HIS:CD2	2.35	0.61
2:C:768:ARG:HH22	2:C:802:LEU:HB3	1.63	0.61
2:C:1921:LEU:HD22	2:C:1942:PHE:CE2	2.34	0.61
1:H:2101:LEU:HD11	1:H:2151:ILE:HG13	1.82	0.61
2:G:512:VAL:HG11	2:G:526:THR:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:963:ARG:HD2	2:G:1003:VAL:HG13	1.82	0.61
2:G:1685:LYS:HG3	2:G:1708:PHE:HE1	1.66	0.61
2:G:2083:VAL:HA	2:G:2097:LEU:CD1	2.30	0.61
2:A:1613:VAL:HG22	2:A:1714:VAL:CG2	2.30	0.61
2:A:1856:MET:HB3	2:A:1863:VAL:HG12	1.83	0.61
1:D:2220:VAL:HG13	1:D:2222:ASN:H	1.65	0.61
2:C:1600:LEU:O	2:C:1604:GLN:HG2	2.00	0.61
2:C:2017:ASN:OD1	2:C:2065:GLN:NE2	2.33	0.61
2:E:544:ASP:OD1	2:E:567:ARG:NH2	2.26	0.61
1:H:2074:ASP:O	1:H:2111:GLN:HB3	2.01	0.61
2:G:1243:THR:HG22	2:G:1244:ARG:H	1.66	0.61
2:A:1560:LYS:HA	2:A:1563:ILE:CG1	2.30	0.61
2:C:670:ASP:OD2	2:C:897:GLN:NE2	2.33	0.61
2:C:1165:LYS:HD3	2:C:1328:MET:HA	1.83	0.61
2:G:828:LEU:N	2:G:829:PRO:HD2	2.16	0.61
2:G:1858:GLU:O	2:G:1859:ASP:HB3	2.01	0.61
2:A:1035:ARG:NH1	2:A:1146:GLU:OE2	2.31	0.61
2:A:2085:ASP:HB3	2:A:2088:ASN:HB3	1.82	0.61
2:G:1426:ARG:CG	2:G:1499:THR:CG2	2.79	0.61
2:G:1894:LYS:HZ3	2:G:1901:ILE:HD12	1.64	0.61
2:A:1747:SER:O	2:A:1749:ASP:N	2.31	0.60
2:C:1429:TYR:HB3	2:C:1478:LEU:HD22	1.83	0.60
2:E:760:VAL:HG13	2:E:761:LEU:H	1.66	0.60
2:E:1398:LEU:HD21	2:E:1552:ILE:HG13	1.82	0.60
2:E:1979:ILE:HG12	2:E:1994:ALA:HB3	1.83	0.60
2:A:976:PHE:HA	2:A:979:MET:HE3	1.81	0.60
2:E:1398:LEU:CD2	2:E:1552:ILE:HG13	2.31	0.60
2:E:1431:ALA:HB3	2:E:1437:VAL:HG12	1.84	0.60
1:H:2090:ILE:HG23	1:H:2280:PRO:HA	1.82	0.60
2:A:837:ALA:HA	2:A:844:ARG:NH1	2.17	0.60
2:A:1385:GLN:HG2	2:A:1566:PHE:HZ	1.66	0.60
2:A:1712:LEU:HA	2:A:1753:ARG:O	2.01	0.60
2:A:1903:THR:HG21	2:A:1945:PHE:HA	1.82	0.60
2:C:457:LEU:HD23	2:C:458:VAL:N	2.16	0.60
2:C:1082:GLU:OE1	2:C:1126:LEU:HG	2.00	0.60
2:E:1248:ARG:NH1	2:E:1305:GLU:OE2	2.33	0.60
2:E:2050:ALA:HB3	2:E:2054:LYS:CE	2.25	0.60
2:G:533:GLN:N	2:G:533:GLN:OE1	2.33	0.60
2:G:2183:ASP:OD1	2:G:2184:PRO:HD3	2.01	0.60
1:B:2047:ARG:NH2	2:A:1093:VAL:O	2.34	0.60
2:A:1090:LEU:HD23	2:A:1090:LEU:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:773:ILE:CD1	2:C:860:VAL:HG13	2.31	0.60
2:C:1489:ARG:O	2:C:1794:THR:HG21	2.01	0.60
2:C:1509:HIS:HD2	2:C:1544:VAL:H	1.48	0.60
2:C:1672:TYR:CE1	2:C:1702:VAL:HG11	2.36	0.60
2:C:1854:ILE:HB	2:C:1863:VAL:CG1	2.31	0.60
1:H:2205:THR:HB	1:H:2206:PRO:HD2	1.83	0.60
2:G:1353:LEU:HD12	2:G:1355:ASP:HB2	1.81	0.60
2:G:1426:ARG:CB	2:G:1499:THR:HG23	2.31	0.60
2:G:2171:PHE:HB3	2:G:2183:ASP:CA	2.24	0.60
2:A:1883:GLU:O	2:A:1887:LEU:HG	2.01	0.60
1:F:2220:VAL:HG22	1:F:2221:ASP:H	1.66	0.60
2:E:2097:LEU:HB2	2:E:2158:PHE:CE2	2.34	0.60
2:G:1555:TRP:HA	2:G:1814:ARG:NH2	2.17	0.60
2:G:1930:VAL:C	2:G:1931:LYS:HD2	2.27	0.60
2:A:2005:MET:SD	2:A:2014:GLN:HG3	2.42	0.60
2:C:646:ARG:HA	2:C:957:LEU:HD11	1.83	0.60
2:C:798:ILE:HA	2:C:801:ILE:HG22	1.82	0.60
2:C:1145:PHE:CE1	2:C:1161:LEU:HB2	2.37	0.60
2:C:2042:ASN:HB2	2:C:2043:PRO:HD2	1.84	0.60
2:E:1247:LEU:HD13	2:E:1310:ILE:HG13	1.83	0.60
2:E:1445:GLN:OE1	2:E:1449:SER:OG	2.20	0.60
2:E:1460:LEU:HG	2:E:1467:ASP:OD1	2.01	0.60
2:G:1021:TYR:HD1	2:G:1028:MET:HG2	1.67	0.60
2:G:1401:ALA:O	2:G:1544:VAL:HA	2.02	0.60
2:G:2100:HIS:NE2	2:G:2102:GLU:OE1	2.34	0.60
2:A:1696:LEU:HD22	2:A:1708:PHE:HD2	1.67	0.60
2:A:1879:TYR:CE1	2:A:1880:MET:HG3	2.36	0.60
2:C:1025:THR:HG21	2:C:1027:LYS:NZ	2.17	0.60
2:E:517:GLU:HG2	2:E:520:ARG:NH1	2.12	0.60
2:E:614:VAL:HG12	2:E:633:VAL:HB	1.83	0.60
2:G:504:ASP:O	2:G:506:THR:N	2.34	0.60
2:G:518:TRP:CZ3	2:G:519:ALA:HB2	2.37	0.60
2:G:1653:LEU:HD12	2:G:1654:ASP:N	2.17	0.60
2:E:736:GLU:H	2:E:918:ILE:HG22	1.64	0.60
2:E:870:ASN:HA	2:E:905:ARG:HH12	1.67	0.60
2:E:1596:LYS:HB2	2:E:1597:PRO:HD3	1.81	0.60
2:G:1452:ARG:HD2	2:G:1452:ARG:N	2.14	0.60
2:G:1980:VAL:O	2:G:1983:LEU:HG	2.02	0.60
2:A:1214:LEU:CD1	2:A:1216:MET:HB2	2.31	0.60
2:A:1912:GLN:O	2:A:1943:LYS:NZ	2.32	0.60
2:A:1982:ILE:HG23	2:A:1991:ALA:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:978:ARG:HH11	2:C:978:ARG:HA	1.66	0.60
2:C:1025:THR:CG2	2:C:1027:LYS:HG2	2.30	0.60
2:E:1209:ARG:HA	2:E:1212:GLU:HG2	1.83	0.60
2:G:1185:PRO:HG2	2:G:1188:ILE:HG12	1.82	0.60
2:G:1849:SER:CA	2:G:1854:ILE:HG22	2.32	0.60
1:B:2216:LYS:C	1:B:2218:PRO:HD3	2.27	0.60
1:B:2276:ASP:OD1	1:B:2277:THR:N	2.33	0.60
2:A:1827:ASP:OD1	2:A:1829:THR:OG1	2.19	0.60
2:C:941:SER:HB3	2:C:974:TYR:HD2	1.67	0.60
2:C:1458:VAL:HG23	2:C:1477:ILE:HG22	1.83	0.60
2:C:1574:PRO:HG2	2:C:1751:ARG:CB	2.32	0.60
1:F:2269:LYS:HG3	1:F:2270:PRO:HD2	1.83	0.60
2:E:585:LYS:NZ	2:E:631:THR:O	2.35	0.60
2:E:827:LEU:O	2:E:832:PHE:N	2.27	0.60
2:E:978:ARG:HB3	2:E:986:TYR:CE1	2.37	0.60
2:E:1386:THR:HG22	2:E:1564:TYR:CD2	2.36	0.60
2:E:1408:THR:HG21	2:E:1440:ARG:NH1	2.16	0.60
2:E:1979:ILE:HG22	2:E:1983:LEU:HD22	1.84	0.60
2:G:1606:SER:HB3	2:G:1609:GLN:HB2	1.84	0.60
2:G:1954:ARG:NE	2:G:2004:ALA:O	2.30	0.60
2:A:466:ASP:OD1	2:A:467:GLN:NE2	2.34	0.59
2:A:777:SER:HB3	2:A:780:GLU:CB	2.31	0.59
2:A:1586:HIS:HB3	2:A:1589:SER:HB2	1.83	0.59
2:C:1975:LEU:HD12	2:C:1978:ALA:HB3	1.82	0.59
2:E:547:MET:HE3	2:E:695:ARG:HH21	1.67	0.59
2:E:808:THR:O	2:E:809:ARG:HG2	2.02	0.59
2:E:1021:TYR:CE1	2:E:1028:MET:HE2	2.37	0.59
2:G:1021:TYR:CE1	2:G:1028:MET:HE2	2.36	0.59
2:G:1418:HIS:NE2	2:G:1501:GLU:OE1	2.35	0.59
2:A:1590:LEU:HD11	2:A:1594:MET:HE3	1.84	0.59
2:G:501:LYS:N	2:G:501:LYS:HE3	2.18	0.59
2:G:1425:GLY:HA2	2:G:1501:GLU:CD	2.27	0.59
2:A:1390:LEU:HA	2:A:1538:ARG:NH2	2.16	0.59
2:E:1286:ASP:OD1	2:E:1287:VAL:N	2.36	0.59
2:E:1485:ASP:O	2:E:1489:ARG:HG2	2.02	0.59
2:E:1982:ILE:HB	2:E:1991:ALA:CB	2.29	0.59
2:G:578:GLU:HG3	2:G:579:ILE:H	1.66	0.59
2:G:978:ARG:HA	2:G:978:ARG:HH11	1.67	0.59
2:G:1517:TYR:HB2	2:G:1780:LEU:HD23	1.84	0.59
2:G:1862:THR:HG22	2:G:1863:VAL:N	2.17	0.59
2:A:557:LYS:N	3:A:2201:ACT:OXT	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:895:SER:HB3	2:A:897:GLN:NE2	2.16	0.59
2:C:1793:SER:HA	2:C:1865:PRO:CG	2.32	0.59
2:C:1794:THR:O	2:C:1796:MET:HG2	2.02	0.59
2:E:775:VAL:HG22	2:E:776:HIS:H	1.67	0.59
2:E:2005:MET:HG2	2:E:2006:TRP:H	1.67	0.59
2:E:2189:ASN:OD1	2:E:2190:VAL:N	2.35	0.59
2:G:1495:LYS:CA	2:G:1498:GLN:HG2	2.29	0.59
2:A:887:GLU:HG2	2:A:1132:TYR:CE1	2.38	0.59
2:A:1914:ARG:HB2	2:A:1917:GLU:HG3	1.84	0.59
2:C:2006:TRP:CG	2:C:2007:ASP:H	2.20	0.59
2:E:736:GLU:HB2	2:E:918:ILE:CG2	2.32	0.59
2:E:825:LYS:HD2	2:E:828:LEU:HG	1.84	0.59
2:E:1964:ASP:O	2:E:1965:GLN:HB3	2.01	0.59
2:A:763:HIS:HA	2:A:767:ASN:HB2	1.85	0.59
2:A:1784:LEU:CD1	2:A:1840:LEU:HD11	2.32	0.59
2:C:1598:THR:HG21	2:C:1716:MET:HE3	1.83	0.59
2:C:1629:LEU:HD21	2:C:1669:VAL:HG23	1.83	0.59
2:G:862:THR:HG23	2:G:864:THR:H	1.67	0.59
2:G:1191:LYS:CE	2:G:1216:MET:HE3	2.32	0.59
2:G:1618:ARG:HD3	2:G:1674:GLU:CG	2.32	0.59
2:A:1738:GLN:OE1	2:A:1742:LYS:NZ	2.35	0.59
2:A:1899:LEU:HG	2:A:1997:MET:HE1	1.83	0.59
2:C:1380:ASN:ND2	2:C:1383:GLN:HG2	2.18	0.59
2:C:1673:HIS:CE1	2:C:1675:ALA:HB3	2.37	0.59
2:G:716:ASP:HB3	2:G:719:LYS:HB2	1.84	0.59
2:G:1353:LEU:C	2:G:1354:LEU:HD13	2.28	0.59
2:G:1968:ILE:HA	2:G:1971:LYS:CB	2.33	0.59
2:A:775:VAL:HG21	2:A:780:GLU:HG3	1.84	0.59
2:A:1784:LEU:HD12	2:A:1840:LEU:HD11	1.85	0.59
2:C:626:GLN:HG2	2:C:1266:VAL:HG21	1.85	0.59
2:C:1285:HIS:O	2:C:1761:VAL:HG11	2.03	0.59
2:C:1907:GLU:N	2:C:1907:GLU:OE1	2.36	0.59
2:C:2013:LYS:O	2:C:2013:LYS:HD3	2.03	0.59
2:C:2100:HIS:O	2:C:2101:ILE:HG22	2.02	0.59
2:E:1571:ARG:NH2	2:E:1743:ALA:O	2.36	0.59
2:G:541:PHE:C	2:G:542:LEU:HD12	2.28	0.59
2:G:976:PHE:HA	2:G:979:MET:HE2	1.84	0.59
2:A:813:GLN:HB3	2:A:829:PRO:HA	1.85	0.59
2:E:1434:GLN:NE2	2:E:1438:ASP:OD1	2.36	0.59
1:H:2083:ILE:HG22	1:H:2118:ILE:HD12	1.85	0.59
2:G:1426:ARG:CG	2:G:1499:THR:HG21	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2220:VAL:HG13	1:B:2222:ASN:N	2.18	0.59
2:A:1415:LEU:HD11	2:A:1476:LEU:HD22	1.83	0.59
2:C:454:PRO:HD3	2:C:963:ARG:NH1	2.18	0.59
2:C:617:LEU:HB3	2:C:636:THR:HB	1.84	0.59
1:F:2071:ASP:OD1	1:F:2072:VAL:N	2.35	0.59
2:E:760:VAL:O	2:E:764:VAL:HG12	2.02	0.59
2:E:772:LEU:O	2:E:772:LEU:HD12	2.02	0.59
2:E:1058:MET:HE3	2:E:1063:LEU:HD13	1.84	0.59
2:E:1618:ARG:NH1	2:E:1963:LYS:HB3	2.18	0.59
1:H:2120:MET:O	1:H:2249:PRO:HD3	2.03	0.59
2:G:1503:PHE:CG	2:G:1526:MET:HE2	2.37	0.59
2:A:521:ILE:HG23	2:A:522:PRO:HD3	1.85	0.58
2:A:1021:TYR:HD1	2:A:1028:MET:HG2	1.68	0.58
2:C:521:ILE:HB	2:C:522:PRO:HD3	1.83	0.58
2:E:1431:ALA:HB3	2:E:1437:VAL:CG1	2.33	0.58
2:G:630:GLU:HG3	2:G:631:THR:HG23	1.85	0.58
2:A:862:THR:HG23	2:A:864:THR:H	1.69	0.58
2:C:813:GLN:CB	2:C:829:PRO:HA	2.25	0.58
2:C:861:CYS:SG	2:C:865:LEU:HD23	2.43	0.58
2:C:887:GLU:HG2	2:C:1132:TYR:CE1	2.38	0.58
2:C:941:SER:HB3	2:C:974:TYR:CD2	2.38	0.58
2:C:1391:TYR:HD1	2:C:1413:PHE:HB3	1.68	0.58
2:C:1562:ASP:OD1	2:C:1562:ASP:N	2.33	0.58
2:C:1860:GLU:C	2:C:1862:THR:H	2.12	0.58
2:G:1431:ALA:O	2:G:1481:PRO:HD3	2.02	0.58
2:G:1496:ASN:O	2:G:1499:THR:HG22	2.03	0.58
1:B:2114:GLU:OE2	1:B:2116:ARG:NH1	2.36	0.58
2:A:1591:MET:HG2	2:A:1620:GLN:CD	2.28	0.58
2:A:2134:GLU:HB3	2:A:2168:LEU:HB3	1.84	0.58
2:C:1434:GLN:HA	2:C:1437:VAL:HG22	1.84	0.58
2:C:2020:PRO:O	2:C:2023:VAL:HG22	2.04	0.58
2:E:551:ALA:HB2	2:E:724:PHE:HD2	1.68	0.58
2:E:1023:GLU:N	2:E:1023:GLU:OE1	2.36	0.58
2:E:1063:LEU:HB3	2:E:1163:MET:HE1	1.85	0.58
2:E:1902:VAL:CG1	2:E:1971:LYS:HE3	2.32	0.58
2:E:1983:LEU:HD21	2:E:2143:ILE:HD13	1.85	0.58
2:E:2102:GLU:CB	2:E:2151:GLU:HG2	2.34	0.58
1:H:2251:THR:HG23	1:H:2253:LYS:H	1.69	0.58
2:G:1529:ILE:O	2:G:1533:THR:HG22	2.03	0.58
2:G:2167:ASP:C	2:G:2168:LEU:HD23	2.28	0.58
2:C:828:LEU:N	2:C:829:PRO:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1451:LEU:O	2:C:1453:GLY:N	2.36	0.58
2:C:1673:HIS:HA	2:C:1702:VAL:HG21	1.85	0.58
2:C:1902:VAL:HG11	2:C:1971:LYS:HD2	1.84	0.58
1:F:2181:LYS:O	1:F:2183:GLN:N	2.35	0.58
1:F:2296:GLU:HB2	2:E:1118:ARG:O	2.03	0.58
2:E:580:ASP:OD2	2:E:583:ALA:HB2	2.04	0.58
2:E:761:LEU:HD12	2:E:762:GLU:N	2.18	0.58
2:G:1400:ALA:HB1	2:G:1544:VAL:O	2.03	0.58
2:G:1422:LYS:HD2	2:G:1423:ASP:H	1.68	0.58
2:G:1792:ILE:HG22	2:G:1865:PRO:CB	2.33	0.58
2:A:926:ILE:N	2:A:927:PRO:HD2	2.19	0.58
2:A:992:TYR:CD2	2:A:1001:LYS:HD3	2.37	0.58
2:C:617:LEU:HA	2:C:622:GLN:HE22	1.66	0.58
2:C:686:ARG:NH1	2:C:689:GLN:OE1	2.35	0.58
2:C:926:ILE:N	2:C:927:PRO:HD2	2.19	0.58
2:C:1525:ARG:NH1	2:C:1791:GLU:OE2	2.36	0.58
1:F:2045:GLU:OE2	1:F:2094:ARG:NH1	2.36	0.58
1:F:2279:LEU:CD2	1:F:2285:GLN:HG3	2.32	0.58
2:E:1172:TRP:HD1	2:E:1175:MET:HE3	1.66	0.58
2:G:822:THR:HG21	2:G:825:LYS:HD3	1.85	0.58
2:A:449:VAL:N	2:A:999:GLU:OE2	2.36	0.58
1:D:2047:ARG:NH2	2:C:1093:VAL:O	2.36	0.58
2:C:608:GLU:HB3	2:C:609:PRO:HD3	1.85	0.58
2:C:1598:THR:HG21	2:C:1716:MET:CE	2.33	0.58
2:C:1649:ILE:HG21	2:C:1687:LEU:HD21	1.85	0.58
2:C:2015:ILE:HG23	2:C:2016:PRO:HD2	1.84	0.58
2:E:825:LYS:HE3	2:E:834:ILE:CG2	2.34	0.58
1:B:2049:ARG:NH1	1:B:2282:TYR:OH	2.36	0.58
2:A:1065:ARG:NH2	2:A:1099:GLU:HB3	2.15	0.58
2:C:736:GLU:HB2	2:C:918:ILE:CD1	2.33	0.58
2:C:1401:ALA:O	2:C:1544:VAL:HA	2.03	0.58
2:C:1613:VAL:HG22	2:C:1714:VAL:CG2	2.33	0.58
2:C:2155:LYS:HE3	2:C:2156:LEU:O	2.03	0.58
2:C:2169:LYS:HA	2:C:2185:SER:HA	1.85	0.58
2:E:1124:LEU:H	2:E:1124:LEU:HD12	1.68	0.58
2:G:1722:GLU:OE2	2:G:1724:LYS:HB3	2.04	0.58
2:G:1979:ILE:HD11	2:G:1991:ALA:HB1	1.86	0.58
2:A:1235:ILE:HG13	2:A:1334:MET:HE3	1.85	0.58
2:A:1928:VAL:HG21	2:A:1949:GLN:CB	2.24	0.58
2:A:2017:ASN:CG	2:A:2058:LEU:HD13	2.29	0.58
2:C:1427:ALA:HB3	2:C:1476:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:992:TYR:CD2	2:E:1001:LYS:HB2	2.39	0.58
1:H:2079:MET:HE1	1:H:2151:ILE:CD1	2.28	0.58
1:H:2109:ASN:HB3	1:H:2112:VAL:HG12	1.84	0.58
2:G:808:THR:O	2:G:811:VAL:HG12	2.03	0.58
2:A:612:ILE:HG23	2:A:632:GLN:CB	2.33	0.58
2:A:1353:LEU:HD21	2:A:1381:LYS:HE3	1.85	0.58
1:D:2117:CYS:HB2	1:D:2245:PHE:CZ	2.39	0.58
2:C:1567:SER:O	2:C:1570:VAL:HG22	2.04	0.58
2:C:1958:PRO:CD	2:C:1961:LEU:HD12	2.30	0.58
2:C:2139:THR:C	2:C:2140:LEU:HD12	2.29	0.58
1:F:2082:ASN:ND2	1:F:2083:ILE:HG23	2.19	0.58
2:G:973:THR:HG23	2:G:976:PHE:H	1.69	0.58
2:G:2044:GLU:O	2:G:2045:GLU:HG2	2.04	0.58
2:A:737:PHE:CE2	2:A:933:LEU:HD12	2.39	0.58
2:A:1275:GLU:HB3	2:A:1279:GLY:HA2	1.85	0.58
2:A:1921:LEU:H	2:A:1921:LEU:HD12	1.69	0.58
2:C:1530:ARG:NH1	2:C:1537:MET:O	2.35	0.58
2:C:1546:LEU:HD13	2:C:1552:ILE:HD12	1.84	0.58
2:C:1590:LEU:CD1	2:C:1594:MET:HE3	2.34	0.58
2:C:1672:TYR:CD1	2:C:1702:VAL:HG11	2.39	0.58
2:C:1827:ASP:OD2	2:C:1829:THR:OG1	2.22	0.58
1:F:2109:ASN:ND2	1:F:2112:VAL:HG23	2.19	0.58
1:F:2277:THR:HG23	1:F:2278:PRO:HD2	1.86	0.58
2:E:615:SER:OG	2:E:631:THR:HG21	2.02	0.58
2:E:970:LEU:O	2:E:973:THR:HG22	2.03	0.58
2:E:1502:LEU:CD2	2:E:1504:ILE:HG13	2.34	0.58
1:H:2077:TYR:CE1	1:H:2186:LEU:HD11	2.39	0.58
1:H:2086:LYS:O	1:H:2090:ILE:HG12	2.04	0.58
1:H:2216:LYS:O	1:H:2216:LYS:HD3	2.03	0.58
2:G:471:LEU:CD2	2:G:473:THR:HG23	2.34	0.58
2:G:547:MET:HE3	2:G:695:ARG:NH2	2.18	0.58
2:G:1207:PRO:HB2	2:G:1208:PRO:HD3	1.86	0.58
2:G:1677:SER:O	2:G:1681:LYS:HG3	2.04	0.58
1:B:2309:ALA:OXT	2:A:619:GLY:N	2.37	0.57
2:A:967:VAL:HG21	2:A:1003:VAL:HG22	1.85	0.57
2:A:2034:ILE:HG21	2:A:2074:TYR:CE2	2.38	0.57
1:D:2215:ASN:OD1	1:D:2218:PRO:HD3	2.04	0.57
2:C:1142:ARG:HG2	2:C:1164:CYS:SG	2.44	0.57
2:C:1233:VAL:CG1	2:C:1253:ILE:HG23	2.34	0.57
2:C:2182:GLN:C	2:C:2184:PRO:HD3	2.29	0.57
1:F:2302:VAL:CG2	2:E:1131:VAL:HG21	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1487:LEU:HD23	2:E:1488:SER:N	2.19	0.57
2:G:1436:LEU:HD21	2:G:1704:TRP:HB3	1.85	0.57
2:G:1860:GLU:CD	2:G:1861:GLY:H	2.10	0.57
2:G:1951:HIS:CE1	2:G:2004:ALA:HB2	2.38	0.57
1:B:2045:GLU:HG2	1:B:2046:TRP:N	2.19	0.57
2:A:1766:TYR:O	2:A:1770:LEU:HB2	2.04	0.57
1:D:2151:ILE:HG12	1:D:2188:VAL:HB	1.85	0.57
2:C:1089:LEU:CD1	2:C:1119:LEU:HD13	2.35	0.57
2:C:1509:HIS:CD2	2:C:1544:VAL:H	2.22	0.57
2:E:478:ARG:HB2	2:E:936:GLN:NE2	2.19	0.57
2:E:1573:VAL:HG13	2:E:1746:PRO:HG3	1.84	0.57
2:E:1966:GLU:H	2:E:1968:ILE:HG12	1.70	0.57
2:E:2046:ASN:C	2:E:2048:ASN:H	2.12	0.57
2:G:646:ARG:HA	2:G:957:LEU:HD11	1.86	0.57
2:G:862:THR:OG1	2:G:863:ALA:N	2.35	0.57
2:G:954:GLU:O	2:G:959:ASN:ND2	2.36	0.57
2:G:1552:ILE:O	2:G:1556:ILE:HG12	2.03	0.57
1:B:2047:ARG:HD3	2:A:1098:LYS:HE3	1.87	0.57
2:A:903:LEU:HD12	2:A:933:LEU:HD21	1.85	0.57
1:D:2232:GLU:OE2	1:D:2234:ARG:NH1	2.37	0.57
2:C:729:ARG:CZ	2:C:733:LEU:HD12	2.34	0.57
2:C:797:THR:OG1	2:C:801:ILE:HB	2.05	0.57
2:C:862:THR:HG23	2:C:864:THR:H	1.69	0.57
2:C:1618:ARG:NH1	2:C:1960:ASP:OD1	2.37	0.57
2:C:1871:ILE:HD12	2:C:1872:ALA:N	2.19	0.57
2:C:1979:ILE:HD12	2:C:1980:VAL:N	2.18	0.57
2:E:1114:ALA:HA	2:E:1119:LEU:HD12	1.85	0.57
2:G:1185:PRO:HD2	2:G:1188:ILE:HD11	1.86	0.57
2:G:1688:TYR:HB2	2:G:1693:ILE:HD11	1.85	0.57
2:A:786:LYS:HE3	2:A:824:LEU:HD21	1.84	0.57
2:A:1504:ILE:CD1	2:A:1540:VAL:HG13	2.34	0.57
1:F:2253:LYS:NZ	1:F:2259:MET:HE1	2.20	0.57
2:E:1184:CYS:SG	2:E:1188:ILE:HD11	2.44	0.57
2:E:1411:ALA:HB1	2:E:1504:ILE:HD13	1.85	0.57
2:G:572:ASN:ND2	2:G:584:PHE:HB3	2.19	0.57
2:G:1286:ASP:OD1	2:G:1287:VAL:N	2.37	0.57
2:G:1354:LEU:CD2	2:G:1385:GLN:HB2	2.34	0.57
2:G:1380:ASN:HB3	2:G:1383:GLN:OE1	2.05	0.57
2:G:1426:ARG:O	2:G:1500:VAL:HA	2.04	0.57
2:C:633:VAL:HG23	2:C:633:VAL:O	2.04	0.57
2:C:1054:ILE:CD1	2:C:1144:ILE:HG23	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1431:ALA:HB1	2:C:1432:PRO:HD2	1.86	0.57
1:B:2132:LEU:HB3	1:B:2133:PRO:HD2	1.87	0.57
2:C:1060:ASP:OD1	2:C:1061:VAL:N	2.36	0.57
2:C:2003:GLN:HG3	2:C:2178:VAL:HG23	1.87	0.57
1:F:2068:VAL:HG11	1:F:2235:GLN:CG	2.33	0.57
2:E:590:ALA:O	2:E:638:PRO:HD3	2.05	0.57
2:E:1893:SER:HB2	2:E:1990:ASN:CG	2.29	0.57
2:E:2048:ASN:C	2:E:2050:ALA:H	2.12	0.57
2:E:2079:LEU:HA	2:E:2101:ILE:HG22	1.85	0.57
2:G:530:ASN:HB3	2:G:533:GLN:OE1	2.05	0.57
2:G:1406:GLY:O	2:G:1409:VAL:HG22	2.05	0.57
2:G:1744:LEU:O	2:G:1746:PRO:HD3	2.03	0.57
2:G:1774:LEU:HD12	2:G:1775:PRO:CD	2.31	0.57
2:A:1979:ILE:HG12	2:A:1994:ALA:HB1	1.86	0.57
2:A:2012:LEU:HD13	2:A:2034:ILE:CD1	2.28	0.57
2:C:480:PRO:HG2	2:C:496:VAL:HG13	1.87	0.57
2:C:1380:ASN:O	2:C:1384:THR:HG23	2.04	0.57
2:E:500:LYS:HZ2	2:E:502:ARG:HG2	1.68	0.57
2:E:1207:PRO:HB2	2:E:1208:PRO:HD3	1.86	0.57
2:E:1246:MET:HE2	2:E:1308:VAL:C	2.30	0.57
1:H:2084:LEU:CD2	1:H:2199:LEU:HD11	2.34	0.57
2:G:1434:GLN:O	2:G:1437:VAL:HG22	2.04	0.57
2:G:1836:TYR:HD2	2:G:1837:LEU:HD12	1.70	0.57
1:B:2063:MET:HB3	1:B:2197:VAL:CG2	2.35	0.57
2:A:518:TRP:O	2:A:610:TYR:OH	2.19	0.57
2:A:1067:PHE:CE2	2:A:1112:LEU:HD22	2.39	0.57
2:A:1303:THR:OG1	2:A:1727:ARG:NH2	2.37	0.57
2:C:685:ARG:NH1	2:C:969:TRP:HB2	2.20	0.57
2:E:804:HIS:O	2:E:807:GLY:N	2.35	0.57
2:E:1274:VAL:HG11	2:E:1308:VAL:HG11	1.87	0.57
2:G:1431:ALA:HB3	2:G:1437:VAL:HG12	1.86	0.57
2:G:1860:GLU:OE2	2:G:1861:GLY:N	2.33	0.57
2:G:2066:ALA:O	2:G:2070:THR:N	2.29	0.57
2:C:1065:ARG:NH1	2:C:1099:GLU:HG2	2.19	0.57
2:C:1579:ILE:HD11	2:C:1763:ARG:HH11	1.68	0.57
1:F:2211:TRP:O	1:F:2215:ASN:HB2	2.04	0.57
2:E:562:MET:CE	2:E:606:ARG:HD2	2.34	0.57
1:H:2154:MET:O	1:H:2156:GLY:N	2.37	0.57
2:A:580:ASP:OD2	2:A:583:ALA:HB2	2.05	0.57
2:A:771:MET:HB3	2:A:875:THR:HB	1.87	0.57
2:A:801:ILE:HG13	2:A:804:HIS:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1044:HIS:CE1	2:A:1045:GLU:HG3	2.40	0.57
2:A:1676:LEU:O	2:A:1681:LYS:HE3	2.05	0.57
2:A:1678:GLN:OE1	2:A:1678:GLN:N	2.35	0.57
2:A:1972:ILE:O	2:A:1976:LEU:HD13	2.04	0.57
2:C:1854:ILE:CD1	2:C:1866:LEU:HB2	2.35	0.57
2:E:1037:ALA:HB2	2:E:1047:MET:HG3	1.87	0.57
1:H:2227:THR:HG22	1:H:2229:THR:HG22	1.87	0.57
2:G:590:ALA:HB3	2:G:596:VAL:CG1	2.35	0.57
2:G:2033:ASP:HB2	2:G:2036:ASP:HB3	1.86	0.57
2:A:1419:TRP:HH2	2:A:1476:LEU:HB2	1.68	0.56
2:A:1962:ALA:O	2:A:1965:GLN:HB3	2.04	0.56
2:E:557:LYS:HE2	3:E:2201:ACT:H2	1.86	0.56
2:E:778:ARG:HG2	2:E:836:HIS:HB2	1.87	0.56
2:E:963:ARG:NH2	2:E:1023:GLU:O	2.38	0.56
2:E:1396:ASN:ND2	2:E:1556:ILE:O	2.38	0.56
2:G:884:TYR:OH	2:G:1079:ARG:NH1	2.33	0.56
2:G:943:LEU:HD22	2:G:973:THR:OG1	2.05	0.56
2:G:1552:ILE:HA	2:G:1555:TRP:HB3	1.86	0.56
2:G:1598:THR:HG23	2:G:1714:VAL:HG21	1.86	0.56
1:B:2101:LEU:CD2	1:B:2151:ILE:HD11	2.34	0.56
2:A:801:ILE:O	2:A:804:HIS:ND1	2.38	0.56
2:A:1155:SER:O	2:A:1159:LEU:HD13	2.05	0.56
2:A:1272:ILE:O	2:A:1285:HIS:HA	2.04	0.56
2:A:2046:ASN:N	2:A:2047:PRO:HD2	2.21	0.56
1:D:2276:ASP:OD1	1:D:2277:THR:N	2.33	0.56
1:D:2296:GLU:HG2	2:C:1120:LYS:N	2.20	0.56
2:E:608:GLU:HB3	2:E:609:PRO:HD3	1.86	0.56
2:E:1866:LEU:O	2:E:1868:ALA:N	2.37	0.56
2:G:825:LYS:NZ	2:G:839:MET:HE1	2.19	0.56
2:G:1165:LYS:HB2	2:G:1328:MET:HE2	1.87	0.56
2:G:2031:ILE:HG21	2:G:2037:PHE:HD1	1.69	0.56
2:A:473:THR:HG21	2:A:985:LEU:HD22	1.87	0.56
2:C:690:THR:HG23	2:C:692:GLU:HG3	1.88	0.56
2:C:1025:THR:HG21	2:C:1027:LYS:HZ3	1.68	0.56
2:C:1065:ARG:O	2:C:1069:GLN:HG3	2.05	0.56
2:C:1713:VAL:CG2	2:C:1743:ALA:HB2	2.36	0.56
2:C:1721:PHE:HB2	2:C:1728:TYR:CE1	2.41	0.56
2:C:1997:MET:HE2	2:C:1997:MET:N	2.19	0.56
2:C:2131:VAL:HG11	2:C:2170:LEU:HG	1.88	0.56
1:F:2211:TRP:CE3	1:F:2230:MET:HE1	2.40	0.56
2:E:1616:PRO:CG	2:E:1717:GLY:HA3	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2049:TYR:HB3	2:E:2053:VAL:CG2	2.36	0.56
2:G:529:LEU:HD21	2:G:533:GLN:HB2	1.87	0.56
2:G:1441:PHE:HB2	2:G:1478:LEU:HD22	1.86	0.56
2:G:2100:HIS:ND1	2:G:2153:ASN:OD1	2.34	0.56
2:A:1143:ALA:O	2:A:1147:ILE:HG13	2.06	0.56
2:A:1465:THR:HG23	2:A:1466:THR:H	1.70	0.56
2:G:835:HIS:HB3	2:G:861:CYS:HB3	1.87	0.56
2:G:1311:SER:OG	2:G:1313:PRO:HD2	2.06	0.56
1:B:2253:LYS:HB3	1:B:2286:HIS:NE2	2.21	0.56
2:A:789:ARG:HA	2:A:792:ALA:HB2	1.87	0.56
2:A:1397:VAL:HG23	2:A:1562:ASP:O	2.05	0.56
2:C:515:LEU:O	2:C:520:ARG:HD2	2.06	0.56
2:C:1360:PRO:HA	2:C:1378:GLN:HA	1.87	0.56
2:E:1100:SER:HB2	2:E:1106:ALA:HB2	1.88	0.56
2:E:1104:PRO:O	2:E:1108:ILE:HG12	2.05	0.56
1:H:2101:LEU:HD21	1:H:2151:ILE:CD1	2.36	0.56
2:G:515:LEU:HD22	2:G:537:PHE:HZ	1.71	0.56
2:G:686:ARG:O	2:G:690:THR:HG22	2.06	0.56
2:G:1685:LYS:HG3	2:G:1708:PHE:CE1	2.40	0.56
2:G:1996:GLU:O	2:G:2000:MET:HG3	2.05	0.56
2:A:473:THR:HG21	2:A:985:LEU:CD2	2.35	0.56
2:A:757:TYR:OH	2:A:796:ASP:OD2	2.18	0.56
2:A:1251:LEU:HB3	2:A:1304:VAL:HG12	1.88	0.56
2:A:1489:ARG:HA	2:A:1525:ARG:NH1	2.20	0.56
2:A:2148:VAL:HA	2:A:2152:LEU:HD12	1.88	0.56
1:D:2220:VAL:HG22	1:D:2221:ASP:N	2.21	0.56
2:C:493:GLU:HG2	2:C:738:ILE:HG12	1.86	0.56
1:F:2101:LEU:HD21	1:F:2151:ILE:CG1	2.35	0.56
2:E:798:ILE:HD12	2:E:801:ILE:HD13	1.87	0.56
2:E:1194:ARG:NH1	2:G:2137:THR:OG1	2.39	0.56
2:E:1554:GLU:OE2	2:E:1814:ARG:NH2	2.37	0.56
1:H:2101:LEU:HD22	1:H:2115:ILE:HD13	1.87	0.56
1:H:2162:MET:CE	1:H:2202:TRP:HB3	2.34	0.56
2:G:2115:VAL:HB	2:G:2126:GLU:N	2.19	0.56
2:A:961:ARG:HE	2:A:1600:LEU:CD1	2.17	0.56
2:A:1399:VAL:HG13	2:A:1407:LYS:HE3	1.86	0.56
2:A:2169:LYS:HD3	2:A:2185:SER:HA	1.88	0.56
2:C:562:MET:SD	2:C:606:ARG:NH1	2.70	0.56
2:C:835:HIS:ND1	2:C:865:LEU:HB2	2.21	0.56
2:E:1429:TYR:HB3	2:E:1478:LEU:HD22	1.86	0.56
2:E:1975:LEU:O	2:E:1979:ILE:HG13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2139:HIS:CE1	1:H:2141:MET:HG2	2.41	0.56
2:G:642:ASP:O	2:G:646:ARG:HG3	2.05	0.56
2:G:1312:GLU:HB2	2:G:1313:PRO:HD3	1.88	0.56
1:B:2294:PHE:CD1	2:A:1119:LEU:HD21	2.41	0.56
2:A:1839:ASP:O	2:A:1843:THR:OG1	2.23	0.56
2:A:1914:ARG:HB2	2:A:1917:GLU:CG	2.36	0.56
2:C:1272:ILE:O	2:C:1285:HIS:HA	2.04	0.56
2:C:2012:LEU:HD21	2:C:2032:ASN:O	2.06	0.56
2:E:587:VAL:HG21	2:E:641:TRP:CH2	2.40	0.56
2:E:660:ILE:HD11	2:E:696:ILE:HG12	1.87	0.56
2:E:963:ARG:N	2:E:1026:GLY:O	2.37	0.56
2:E:1065:ARG:NH2	2:E:1099:GLU:HG3	2.20	0.56
2:E:1768:LYS:O	2:E:1772:GLU:HG2	2.06	0.56
2:E:2005:MET:HG2	2:E:2006:TRP:N	2.21	0.56
2:G:1456:GLU:N	2:G:1456:GLU:OE1	2.39	0.56
2:A:624:THR:O	2:A:628:ILE:HG13	2.06	0.56
2:A:1688:TYR:OH	2:A:1710:ALA:HB2	2.06	0.56
2:A:2051:SER:O	2:A:2054:LYS:HG3	2.05	0.56
2:A:2090:ARG:HG3	2:A:2164:GLY:H	1.71	0.56
1:D:2098:ALA:O	1:D:2123:GLN:NE2	2.36	0.56
1:D:2190:VAL:HG22	1:D:2199:LEU:CD2	2.36	0.56
2:C:770:GLN:NE2	2:C:851:PHE:O	2.39	0.56
2:C:1732:PRO:HG2	2:C:1735:GLU:CG	2.33	0.56
2:E:851:PHE:CD2	2:E:856:ILE:HG21	2.41	0.56
2:E:1552:ILE:O	2:E:1556:ILE:HG12	2.06	0.56
2:A:465:PHE:CD2	2:A:471:LEU:HD22	2.41	0.56
2:A:910:GLN:OE1	2:A:910:GLN:N	2.38	0.56
2:A:1390:LEU:HD23	2:A:1410:CYS:O	2.05	0.56
2:A:1969:LEU:HD21	2:A:2121:PRO:HB2	1.88	0.56
2:C:622:GLN:CG	2:C:627:GLN:HB2	2.29	0.56
2:C:725:ASP:OD1	2:C:725:ASP:N	2.36	0.56
2:C:798:ILE:O	2:C:800:GLN:N	2.37	0.56
2:C:1700:ARG:NH2	2:C:1735:GLU:OE1	2.38	0.56
2:C:1911:ILE:HD11	2:C:1966:GLU:CG	2.35	0.56
2:C:2002:VAL:HG21	2:C:2176:SER:HB2	1.88	0.56
2:E:876:VAL:H	2:E:917:GLY:HA2	1.70	0.56
2:E:975:LEU:HG	2:E:979:MET:HE2	1.87	0.56
2:E:2093:GLU:N	2:E:2160:VAL:HG21	2.21	0.56
2:G:654:THR:O	2:G:657:VAL:HG22	2.06	0.56
2:G:936:GLN:O	2:G:938:PRO:HD3	2.05	0.56
2:G:1426:ARG:HG3	2:G:1499:THR:HG23	1.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1679:SER:O	2:G:1683:ILE:HG13	2.06	0.56
2:A:926:ILE:O	2:A:930:LEU:HG	2.06	0.55
2:A:1065:ARG:O	2:A:1069:GLN:HG3	2.06	0.55
2:A:1713:VAL:HG11	2:A:1739:MET:O	2.06	0.55
2:C:454:PRO:HB3	2:C:1003:VAL:HG12	1.89	0.55
2:C:1172:TRP:CD1	2:C:1175:MET:HE3	2.38	0.55
2:C:1391:TYR:CB	2:C:1417:ARG:HB2	2.36	0.55
2:E:1972:ILE:O	2:E:1976:LEU:HD13	2.06	0.55
2:G:639:GLU:OE1	2:G:639:GLU:N	2.38	0.55
2:G:1457:ILE:CG2	2:G:1476:LEU:HD23	2.29	0.55
2:G:1504:ILE:CD1	2:G:1540:VAL:HG13	2.36	0.55
2:G:1924:ILE:HG22	2:G:1946:VAL:CG2	2.36	0.55
2:G:2020:PRO:O	2:G:2023:VAL:HG22	2.05	0.55
1:B:2079:MET:HG3	1:B:2080:PRO:CD	2.37	0.55
2:A:2148:VAL:HG13	2:A:2149:GLY:H	1.71	0.55
1:D:2105:SER:OG	1:D:2113:LYS:HG2	2.05	0.55
2:C:565:MET:O	2:C:569:ILE:HG12	2.06	0.55
2:C:1171:MET:HE1	2:C:1180:GLN:HE21	1.71	0.55
2:C:1460:LEU:HD23	2:C:1479:ALA:CB	2.35	0.55
2:C:1566:PHE:HB3	2:C:1570:VAL:HG21	1.87	0.55
2:C:1852:ARG:HB3	2:C:1886:LEU:HD13	1.89	0.55
2:E:813:GLN:NE2	2:E:855:HIS:O	2.39	0.55
2:E:1073:PHE:HE1	2:E:1133:VAL:HA	1.68	0.55
2:G:2135:GLU:O	2:G:2137:THR:N	2.40	0.55
2:A:1609:GLN:HG3	2:A:1711:HIS:ND1	2.21	0.55
2:C:532:ILE:HD11	2:C:551:ALA:CB	2.37	0.55
2:C:936:GLN:O	2:C:938:PRO:HD3	2.07	0.55
2:C:970:LEU:O	2:C:973:THR:HG22	2.06	0.55
2:E:702:THR:CG2	2:E:935:GLN:HG2	2.37	0.55
2:E:1919:GLY:O	2:E:1923:ARG:N	2.38	0.55
2:G:1894:LYS:CE	2:G:1898:ILE:HG12	2.35	0.55
2:G:2042:ASN:HB2	2:G:2043:PRO:CD	2.35	0.55
2:C:626:GLN:HG2	2:C:1266:VAL:CG2	2.36	0.55
2:C:799:ASN:OD1	2:C:800:GLN:N	2.39	0.55
2:C:1798:GLU:O	2:C:1862:THR:OG1	2.16	0.55
2:E:549:VAL:HG12	2:E:722:PHE:HD2	1.72	0.55
2:E:556:GLY:N	3:E:2201:ACT:OXT	2.39	0.55
2:E:1724:LYS:HG3	2:E:1725:GLU:HG3	1.87	0.55
2:E:2034:ILE:HG12	2:E:2074:TYR:CE2	2.42	0.55
2:G:657:VAL:C	2:G:658:ARG:HD2	2.31	0.55
2:A:1992:LEU:HD22	2:A:2173:MET:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1788:PHE:O	2:C:1792:ILE:HG12	2.06	0.55
1:F:2220:VAL:HG22	1:F:2221:ASP:N	2.21	0.55
2:E:736:GLU:OE1	2:E:759:LYS:NZ	2.34	0.55
2:E:1241:PRO:HG3	2:E:1821:SER:HB2	1.89	0.55
2:G:1048:ASP:OD1	2:G:1052:LYS:HE3	2.06	0.55
2:G:1063:LEU:HD23	2:G:1163:MET:CE	2.37	0.55
2:G:1861:GLY:O	2:G:1862:THR:OG1	2.21	0.55
2:A:1598:THR:HG21	2:A:1716:MET:CE	2.34	0.55
2:A:2015:ILE:HD13	2:A:2069:PHE:CD2	2.41	0.55
2:A:2091:ALA:HB2	2:A:2162:SER:O	2.06	0.55
1:D:2309:ALA:HB1	2:C:618:THR:HA	1.88	0.55
2:C:620:ASP:OD2	2:C:1326:ARG:HD3	2.06	0.55
1:F:2227:THR:HB	1:F:2230:MET:CG	2.34	0.55
2:E:1090:LEU:HD21	2:E:1098:LYS:HD3	1.89	0.55
2:E:1314:MET:HE3	2:E:1338:PHE:HB3	1.89	0.55
2:E:1445:GLN:NE2	2:E:1457:ILE:O	2.39	0.55
2:G:514:GLU:C	2:G:515:LEU:HD12	2.32	0.55
2:G:740:VAL:HG12	2:G:742:ASP:H	1.72	0.55
2:G:970:LEU:O	2:G:973:THR:HG22	2.06	0.55
2:A:789:ARG:HA	2:A:792:ALA:CB	2.36	0.55
2:A:826:ASP:O	2:A:829:PRO:HD2	2.06	0.55
2:A:2045:GLU:C	2:A:2047:PRO:HD2	2.31	0.55
2:C:1364:LEU:HD13	2:C:1364:LEU:O	2.06	0.55
2:C:1793:SER:HA	2:C:1865:PRO:HB3	1.88	0.55
1:F:2068:VAL:HG11	1:F:2235:GLN:HG3	1.88	0.55
2:E:532:ILE:HD11	2:E:724:PHE:CG	2.41	0.55
2:E:1064:PHE:HB3	2:E:1109:ASN:HD21	1.72	0.55
2:E:1445:GLN:HE22	2:E:1457:ILE:H	1.54	0.55
2:G:573:ARG:HG2	2:G:579:ILE:HA	1.88	0.55
2:G:967:VAL:HG13	2:G:1002:ARG:CB	2.36	0.55
2:G:1468:LEU:HD12	2:G:1469:LYS:N	2.22	0.55
2:G:1924:ILE:HG22	2:G:1946:VAL:HG22	1.88	0.55
2:A:1185:PRO:HD2	2:A:1188:ILE:CD1	2.36	0.55
2:A:1696:LEU:HD22	2:A:1708:PHE:CD2	2.41	0.55
2:A:1799:SER:OG	2:A:1861:GLY:O	2.24	0.55
2:C:607:LEU:HB3	2:C:612:ILE:HD11	1.89	0.55
2:C:654:THR:O	2:C:657:VAL:HG22	2.05	0.55
2:C:1104:PRO:O	2:C:1108:ILE:HG12	2.06	0.55
2:C:1615:VAL:HG13	2:C:1616:PRO:HD2	1.89	0.55
1:F:2136:LEU:HD21	1:F:2180:TRP:HE1	1.71	0.55
2:E:1658:GLU:OE1	2:E:1959:ILE:HG21	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2102:GLU:HB2	2:E:2151:GLU:HG2	1.88	0.55
1:H:2101:LEU:HD11	1:H:2151:ILE:CG1	2.36	0.55
2:G:1495:LYS:HA	2:G:1498:GLN:CG	2.32	0.55
1:B:2136:LEU:HD11	1:B:2177:HIS:HB3	1.89	0.55
2:A:521:ILE:N	2:A:522:PRO:HD2	2.22	0.55
2:C:522:PRO:HB2	2:C:562:MET:HE1	1.88	0.55
2:C:803:LYS:HD3	2:C:803:LYS:C	2.32	0.55
2:C:1233:VAL:HG13	2:C:1253:ILE:HG23	1.89	0.55
2:C:1992:LEU:HD13	2:C:2132:VAL:HG21	1.87	0.55
1:F:2047:ARG:NH2	2:E:1093:VAL:O	2.38	0.55
1:F:2146:GLU:O	1:F:2148:LEU:HD13	2.06	0.55
2:E:953:ALA:O	2:E:957:LEU:HD13	2.06	0.55
2:E:2090:ARG:HH22	2:E:2191:ALA:HB3	1.72	0.55
1:H:2253:LYS:NZ	1:H:2285:GLN:HG3	2.22	0.55
2:G:501:LYS:HG2	2:G:727:SER:O	2.06	0.55
2:G:760:VAL:HA	2:G:771:MET:SD	2.46	0.55
2:G:2090:ARG:HG2	2:G:2091:ALA:H	1.72	0.55
2:G:2135:GLU:OE1	2:G:2168:LEU:HB3	2.07	0.55
2:A:788:ILE:O	2:A:792:ALA:HB2	2.07	0.55
2:A:1390:LEU:HD12	2:A:1397:VAL:HG11	1.88	0.55
1:D:2087:PHE:CD1	1:D:2120:MET:HE1	2.42	0.55
2:C:1177:PRO:HG2	2:C:1199:TRP:CD2	2.42	0.55
2:C:1848:LEU:O	2:C:1853:ILE:HB	2.07	0.55
2:E:503:SER:C	2:E:505:PRO:HD3	2.32	0.55
2:E:1243:THR:HG22	2:E:1245:SER:H	1.72	0.55
2:E:1249:ILE:CD1	2:E:1320:ILE:HD11	2.37	0.55
2:E:1272:ILE:O	2:E:1285:HIS:HA	2.06	0.55
2:E:1546:LEU:HD22	2:E:1552:ILE:HD13	1.89	0.55
2:G:1213:LEU:O	2:G:1213:LEU:HD23	2.07	0.55
2:A:840:SER:OG	2:A:843:ASP:OD1	2.25	0.54
2:C:1460:LEU:HD12	2:C:1461:THR:N	2.21	0.54
1:F:2309:ALA:HB1	2:E:618:THR:HA	1.89	0.54
2:E:522:PRO:HB3	2:E:606:ARG:HD3	1.89	0.54
2:E:547:MET:HE3	2:E:695:ARG:NH2	2.22	0.54
2:E:1247:LEU:HD13	2:E:1310:ILE:CG1	2.37	0.54
2:E:2141:LEU:HD23	2:E:2159:VAL:O	2.07	0.54
2:G:778:ARG:HG3	2:G:836:HIS:CG	2.42	0.54
2:G:1460:LEU:HD22	2:G:1483:GLN:CD	2.33	0.54
2:G:1972:ILE:HG23	2:G:1973:LEU:HD12	1.90	0.54
2:A:1383:GLN:HG2	2:A:1409:VAL:CG2	2.38	0.54
2:A:1702:VAL:HG12	2:A:1706:LEU:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2075:PRO:HA	2:A:2103:ARG:HH21	1.73	0.54
2:C:1107:LYS:O	2:C:1111:LEU:HG	2.06	0.54
2:C:1517:TYR:O	2:C:1521:ILE:HG13	2.07	0.54
2:C:1609:GLN:HG3	2:C:1711:HIS:ND1	2.23	0.54
2:E:851:PHE:HA	2:E:856:ILE:CG2	2.36	0.54
2:G:1074:LYS:HD2	2:G:1075:TYR:CE1	2.41	0.54
2:G:1323:ILE:HG12	2:G:1331:GLU:HG3	1.89	0.54
2:G:1578:HIS:C	2:G:1579:ILE:HD12	2.32	0.54
2:A:650:ASP:O	2:A:654:THR:HG23	2.08	0.54
2:A:881:THR:CG2	2:A:893:GLU:HG3	2.37	0.54
2:A:1243:THR:HG23	2:A:1347:PHE:CZ	2.43	0.54
2:A:1975:LEU:O	2:A:1979:ILE:HG13	2.08	0.54
2:C:2002:VAL:HG21	2:C:2176:SER:HB3	1.89	0.54
2:E:478:ARG:H	2:E:936:GLN:HE22	1.54	0.54
2:E:792:ALA:HA	2:E:798:ILE:HG22	1.89	0.54
2:E:1615:VAL:HG13	2:E:1616:PRO:HD2	1.88	0.54
2:E:1715:VAL:HG22	2:E:1739:MET:HE2	1.89	0.54
2:E:1774:LEU:HD12	2:E:1775:PRO:CD	2.31	0.54
2:G:1523:VAL:HG11	2:G:1555:TRP:HE1	1.72	0.54
2:G:1899:LEU:HA	2:G:1902:VAL:CG1	2.36	0.54
2:A:532:ILE:HG23	2:A:724:PHE:CE2	2.42	0.54
2:A:789:ARG:HB3	2:A:832:PHE:CE2	2.42	0.54
2:A:1785:PRO:HG3	2:A:1844:THR:HG22	1.90	0.54
2:A:2183:ASP:N	2:A:2184:PRO:HD3	2.21	0.54
2:C:953:ALA:O	2:C:957:LEU:HD13	2.08	0.54
2:C:1429:TYR:HD2	2:C:1478:LEU:HD22	1.73	0.54
2:C:1525:ARG:O	2:C:1529:ILE:HG12	2.08	0.54
2:C:1680:ASP:O	2:C:1684:VAL:HG23	2.07	0.54
2:C:2079:LEU:HD22	2:C:2080:GLU:N	2.23	0.54
1:F:2149:GLY:HA2	1:F:2180:TRP:CH2	2.43	0.54
2:E:1639:ASP:OD1	2:E:1667:HIS:ND1	2.36	0.54
1:H:2170:HIS:ND1	1:H:2187:THR:OG1	2.39	0.54
2:G:1032:GLU:O	2:G:1036:ILE:HG13	2.07	0.54
2:G:1632:CYS:CB	2:G:1639:ASP:HA	2.30	0.54
2:A:1732:PRO:HG2	2:A:1735:GLU:HG3	1.90	0.54
2:C:1070:SER:HB2	2:C:1073:PHE:CE2	2.43	0.54
2:C:1492:LYS:CE	2:C:1796:MET:HE1	2.33	0.54
2:C:1590:LEU:CG	2:C:1594:MET:HE3	2.37	0.54
2:C:1686:HIS:O	2:C:1690:ASN:HB2	2.06	0.54
2:E:683:THR:O	2:E:686:ARG:HG2	2.08	0.54
2:E:851:PHE:HA	2:E:856:ILE:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1590:LEU:HD21	2:E:1594:MET:CE	2.37	0.54
2:G:1747:SER:OG	2:G:1749:ASP:OD1	2.26	0.54
2:G:2171:PHE:CB	2:G:2183:ASP:HA	2.29	0.54
2:A:804:HIS:HA	2:A:809:ARG:HD2	1.90	0.54
2:A:1254:THR:HG22	2:A:1301:GLU:HA	1.89	0.54
2:C:532:ILE:HD11	2:C:551:ALA:HB1	1.90	0.54
2:C:614:VAL:HG13	2:C:633:VAL:HG23	1.88	0.54
2:C:1357:GLN:O	2:C:1359:LEU:HD22	2.08	0.54
2:C:2076:ASP:HB2	2:C:2105:LEU:HD22	1.89	0.54
2:G:917:GLY:C	2:G:918:ILE:HD12	2.32	0.54
2:G:1972:ILE:CG2	2:G:1973:LEU:HD12	2.38	0.54
2:A:543:ASP:OD1	2:A:544:ASP:N	2.39	0.54
2:A:2007:ASP:OD1	2:A:2008:ARG:HG2	2.07	0.54
2:C:729:ARG:HG2	2:C:730:PRO:HD2	1.89	0.54
2:C:792:ALA:O	2:C:796:ASP:HB3	2.08	0.54
2:C:1372:LEU:O	2:C:1447:ARG:NH2	2.34	0.54
2:C:1444:TRP:O	2:C:1448:LEU:HB3	2.08	0.54
2:C:1947:LEU:HD21	2:C:1961:LEU:HD22	1.89	0.54
2:E:786:LYS:HG2	2:E:827:LEU:HD11	1.87	0.54
2:E:1528:PHE:CE2	2:E:1796:MET:HE3	2.42	0.54
2:E:1721:PHE:HB2	2:E:1728:TYR:CE1	2.42	0.54
2:G:978:ARG:HB3	2:G:986:TYR:CE1	2.43	0.54
2:A:1372:LEU:C	2:A:1374:PRO:HD3	2.32	0.54
2:A:2048:ASN:O	2:A:2052:LEU:HB2	2.07	0.54
1:D:2101:LEU:HD11	1:D:2151:ILE:CG1	2.38	0.54
2:C:1219:ALA:HB1	2:C:1223:VAL:HG23	1.90	0.54
2:C:1867:ASN:OD1	2:C:1868:ALA:N	2.41	0.54
2:E:877:ILE:HG12	2:E:918:ILE:CD1	2.29	0.54
2:E:1021:TYR:HD1	2:E:1028:MET:HG2	1.73	0.54
2:E:1401:ALA:O	2:E:1544:VAL:HA	2.08	0.54
2:G:580:ASP:OD2	2:G:583:ALA:HB2	2.08	0.54
2:G:1820:PRO:HB2	2:G:1825:LEU:CD1	2.38	0.54
2:A:1430:ILE:HD12	2:A:1503:PHE:CZ	2.43	0.54
2:C:777:SER:HB3	2:C:780:GLU:HB3	1.90	0.54
2:C:1854:ILE:H	2:C:1854:ILE:CD1	2.10	0.54
2:C:1979:ILE:HG22	2:C:1994:ALA:HB3	1.90	0.54
1:F:2068:VAL:HG22	1:F:2069:ASP:N	2.20	0.54
2:E:1090:LEU:O	2:E:1098:LYS:NZ	2.40	0.54
2:E:1246:MET:HG3	2:E:1247:LEU:N	2.22	0.54
2:E:1373:TYR:HB3	2:E:1376:TRP:HB2	1.90	0.54
2:E:1973:LEU:HD12	2:E:1974:SER:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2300:ILE:HG13	2:A:1127:MET:CE	2.38	0.54
2:A:1249:ILE:CD1	2:A:1320:ILE:HD11	2.37	0.54
2:C:510:ILE:HG23	2:C:511:PRO:HD2	1.90	0.54
2:C:1249:ILE:HD13	2:C:1320:ILE:HD11	1.89	0.54
2:C:1403:THR:HA	2:C:1407:LYS:HE2	1.90	0.54
2:E:508:GLN:O	2:E:510:ILE:N	2.41	0.54
2:E:862:THR:HG23	2:E:864:THR:H	1.73	0.54
2:E:1143:ALA:O	2:E:1147:ILE:HG13	2.08	0.54
2:E:1460:LEU:HD13	2:E:1477:ILE:CG2	2.37	0.54
2:G:1380:ASN:OD1	2:G:1381:LYS:N	2.36	0.54
2:G:1428:VAL:HG11	2:G:1484:TRP:CE2	2.43	0.54
2:G:1618:ARG:O	2:G:1621:THR:OG1	2.20	0.54
2:A:837:ALA:HA	2:A:844:ARG:HH12	1.73	0.53
2:C:542:LEU:HA	2:C:567:ARG:NH2	2.23	0.53
2:C:1646:VAL:O	2:C:1650:ARG:N	2.40	0.53
2:C:1652:LEU:CD2	2:C:1683:ILE:HG23	2.38	0.53
2:C:2157:GLU:O	2:C:2159:VAL:N	2.42	0.53
2:G:1274:VAL:HG11	2:G:1308:VAL:HG11	1.89	0.53
2:G:1291:ARG:HH11	2:G:1294:LEU:HD11	1.73	0.53
2:G:1352:GLU:HG2	2:G:1353:LEU:N	2.23	0.53
2:G:1785:PRO:HB2	2:G:1879:TYR:CE1	2.42	0.53
2:A:1358:PRO:HB2	2:A:1378:GLN:HG3	1.91	0.53
2:A:1722:GLU:HG2	2:A:1724:LYS:HG2	1.90	0.53
2:C:636:THR:OG1	2:C:637:THR:N	2.41	0.53
2:C:955:ILE:HG22	2:C:1030:ALA:HB2	1.90	0.53
2:C:999:GLU:O	2:C:1003:VAL:HG23	2.08	0.53
2:C:1431:ALA:HB3	2:C:1437:VAL:HG12	1.90	0.53
2:C:1983:LEU:HD12	2:C:1984:SER:N	2.23	0.53
1:F:2159:LEU:HB2	1:F:2202:TRP:CH2	2.40	0.53
2:E:1021:TYR:HE1	2:E:1028:MET:HE2	1.71	0.53
2:E:1670:GLY:O	2:E:1696:LEU:HA	2.08	0.53
2:E:2132:VAL:HG23	2:E:2156:LEU:HD11	1.90	0.53
1:H:2092:ASP:HB3	1:H:2095:VAL:HG22	1.89	0.53
2:A:1460:LEU:HD12	2:A:1467:ASP:OD2	2.08	0.53
2:A:1503:PHE:HD2	2:A:1539:ILE:HG23	1.73	0.53
2:E:921:THR:OG1	2:E:922:THR:N	2.38	0.53
2:E:1613:VAL:HG22	2:E:1714:VAL:CG2	2.38	0.53
2:E:2041:MET:N	2:E:2045:GLU:OE1	2.41	0.53
2:E:2131:VAL:HG22	2:E:2143:ILE:CG1	2.37	0.53
2:G:616:GLU:O	2:G:627:GLN:NE2	2.41	0.53
2:G:1161:LEU:HG	2:G:1165:LYS:HE3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1195:MET:O	2:G:1197:VAL:N	2.42	0.53
2:G:1354:LEU:HD21	2:G:1385:GLN:HB2	1.90	0.53
2:G:1357:GLN:CG	2:G:1358:PRO:HD2	2.37	0.53
2:G:1732:PRO:HG2	2:G:1735:GLU:CB	2.38	0.53
2:G:1907:GLU:OE1	2:G:1907:GLU:N	2.37	0.53
1:B:2253:LYS:HZ2	1:B:2278:PRO:HA	1.72	0.53
2:A:1060:ASP:OD1	2:A:1061:VAL:N	2.41	0.53
2:C:1121:LEU:HB2	2:C:1127:MET:CE	2.38	0.53
2:C:1517:TYR:HB2	2:C:1780:LEU:HD22	1.90	0.53
1:F:2064:TYR:O	1:F:2199:LEU:N	2.38	0.53
2:E:530:ASN:OD1	2:E:532:ILE:HG22	2.09	0.53
2:E:988:VAL:HG13	2:E:1001:LYS:HD2	1.89	0.53
2:E:1354:LEU:HB3	2:E:1356:LEU:HG	1.90	0.53
2:E:1455:LYS:HD2	2:E:1475:ASP:OD2	2.09	0.53
2:E:2131:VAL:HG22	2:E:2143:ILE:HD12	1.91	0.53
2:G:463:LEU:O	2:G:463:LEU:HD23	2.08	0.53
2:G:796:ASP:HB3	2:G:798:ILE:HG12	1.91	0.53
2:G:1798:GLU:CA	2:G:1863:VAL:HG21	2.37	0.53
2:G:1995:MET:CE	2:G:2173:MET:HB2	2.35	0.53
2:G:2071:ASN:O	2:G:2072:ASN:HB3	2.08	0.53
2:A:777:SER:HB3	2:A:780:GLU:HB3	1.91	0.53
2:A:1383:GLN:CD	2:A:1409:VAL:HG21	2.33	0.53
2:A:1386:THR:O	2:A:1390:LEU:HD13	2.08	0.53
2:A:1721:PHE:HB2	2:A:1728:TYR:CE1	2.44	0.53
2:A:1722:GLU:OE1	2:A:1722:GLU:N	2.40	0.53
2:C:805:ASP:N	2:C:805:ASP:OD1	2.42	0.53
2:C:1246:MET:HE3	2:C:1768:LYS:HD3	1.91	0.53
2:C:1352:GLU:OE1	2:C:1352:GLU:N	2.39	0.53
2:C:2132:VAL:HG12	2:C:2133:GLY:N	2.23	0.53
1:F:2080:PRO:HG3	1:F:2242:PHE:CE2	2.44	0.53
2:E:900:LEU:HD11	2:E:932:LEU:HD11	1.89	0.53
2:E:1466:THR:O	2:E:1470:LEU:HD13	2.08	0.53
2:E:1590:LEU:HD21	2:E:1594:MET:HE3	1.90	0.53
2:G:828:LEU:HA	2:G:832:PHE:O	2.07	0.53
2:A:1394:ASP:HA	2:A:1538:ARG:CZ	2.38	0.53
2:A:1796:MET:HE2	2:A:1796:MET:CA	2.39	0.53
2:C:1552:ILE:HG12	2:C:1811:TYR:CE1	2.44	0.53
2:C:1964:ASP:O	2:C:1968:ILE:HG12	2.09	0.53
2:E:1311:SER:OG	2:E:1313:PRO:HD2	2.09	0.53
2:E:2011:PRO:HB2	2:E:2034:ILE:HG23	1.89	0.53
1:H:2220:VAL:HG22	1:H:2221:ASP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1653:LEU:HD12	2:G:1654:ASP:HB2	1.90	0.53
2:G:1732:PRO:HG2	2:G:1735:GLU:HB2	1.91	0.53
2:G:1799:SER:OG	2:G:1802:ASP:HB2	2.08	0.53
2:A:620:ASP:OD2	2:A:623:LEU:HB2	2.09	0.53
2:A:826:ASP:C	2:A:829:PRO:HD2	2.34	0.53
2:C:1387:PHE:HB2	2:C:1391:TYR:CE1	2.44	0.53
1:F:2164:PRO:HG3	1:F:2226:PHE:CZ	2.44	0.53
1:F:2164:PRO:HG3	1:F:2226:PHE:CE1	2.42	0.53
2:E:941:SER:HB2	2:E:974:TYR:HD2	1.72	0.53
2:E:1142:ARG:HD2	2:E:1168:GLU:OE2	2.08	0.53
2:E:1538:ARG:C	2:E:1539:ILE:HD12	2.34	0.53
1:H:2300:ILE:HD12	2:G:1127:MET:SD	2.49	0.53
2:G:926:ILE:CG1	2:G:927:PRO:HD3	2.31	0.53
2:G:1930:VAL:HG22	2:G:1949:GLN:CD	2.34	0.53
2:G:2033:ASP:HB2	2:G:2036:ASP:CB	2.38	0.53
2:G:2066:ALA:O	2:G:2070:THR:OG1	2.25	0.53
2:A:878:ILE:HB	2:A:919:ILE:HD12	1.91	0.53
2:A:1530:ARG:CB	2:A:1537:MET:HE2	2.37	0.53
2:A:1936:VAL:HG13	2:A:1939:SER:OG	2.09	0.53
1:D:2275:LEU:HD21	2:C:1317:ASN:CG	2.33	0.53
2:C:737:PHE:CZ	2:C:930:LEU:HD23	2.44	0.53
2:C:775:VAL:HG22	2:C:776:HIS:H	1.73	0.53
2:C:1235:ILE:HG13	2:C:1334:MET:HE3	1.91	0.53
2:C:1464:THR:HA	2:C:1467:ASP:OD1	2.09	0.53
2:C:2155:LYS:C	2:C:2156:LEU:HD12	2.34	0.53
2:E:686:ARG:O	2:E:690:THR:HB	2.07	0.53
2:E:773:ILE:HG13	2:E:877:ILE:HB	1.90	0.53
2:G:529:LEU:HD23	2:G:530:ASN:O	2.09	0.53
2:G:825:LYS:HE3	2:G:828:LEU:HD12	1.91	0.53
2:G:993:GLU:O	2:G:994:ASP:HB3	2.09	0.53
2:G:1768:LYS:O	2:G:1772:GLU:HG2	2.08	0.53
2:G:1892:LYS:HA	2:G:1988:HIS:CE1	2.44	0.53
1:B:2124:ILE:HG22	1:B:2263:PHE:CE2	2.44	0.53
2:A:654:THR:O	2:A:657:VAL:HG22	2.09	0.53
2:A:663:ASP:HA	2:A:699:LEU:HB2	1.89	0.53
1:D:2101:LEU:HD22	1:D:2115:ILE:HG21	1.91	0.53
2:C:775:VAL:HG21	2:C:780:GLU:HG3	1.89	0.53
2:C:775:VAL:CG2	2:C:780:GLU:HG2	2.39	0.53
2:E:533:GLN:NE2	2:E:559:ASN:HB2	2.23	0.53
2:E:1722:GLU:OE2	2:E:1724:LYS:HE3	2.08	0.53
2:G:1073:PHE:CE1	2:G:1133:VAL:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1990:ASN:HA	2:G:1993:ASN:ND2	2.24	0.53
2:G:2005:MET:HB2	2:G:2013:LYS:CD	2.31	0.53
1:B:2069:ASP:OD1	1:B:2069:ASP:N	2.42	0.53
2:A:521:ILE:CG2	2:A:522:PRO:HD3	2.38	0.53
2:A:617:LEU:HD23	2:A:644:ILE:HG13	1.91	0.53
2:A:978:ARG:HB3	2:A:986:TYR:CE1	2.43	0.53
2:C:2172:LEU:HD12	2:C:2172:LEU:N	2.24	0.53
2:E:593:LYS:HA	2:E:596:VAL:HG22	1.89	0.53
2:E:1073:PHE:CE1	2:E:1133:VAL:HG22	2.44	0.53
2:E:1674:GLU:OE2	2:E:1674:GLU:N	2.33	0.53
2:G:1243:THR:HG22	2:G:1244:ARG:N	2.24	0.53
2:G:1353:LEU:O	2:G:1353:LEU:HD13	2.09	0.53
2:G:1411:ALA:O	2:G:1415:LEU:HD23	2.09	0.53
2:G:2101:ILE:O	2:G:2151:GLU:HA	2.09	0.53
2:A:1996:GLU:O	2:A:2000:MET:HG3	2.09	0.52
2:A:2131:VAL:HG22	2:A:2143:ILE:CG1	2.35	0.52
2:C:541:PHE:C	2:C:542:LEU:HD22	2.34	0.52
2:C:803:LYS:HB2	2:C:803:LYS:HZ3	1.73	0.52
2:C:1054:ILE:HA	2:C:1058:MET:SD	2.48	0.52
2:C:1676:LEU:O	2:C:1681:LYS:HE3	2.08	0.52
2:C:1994:ALA:HA	2:C:1997:MET:CG	2.39	0.52
2:C:2062:GLN:O	2:C:2065:GLN:HG2	2.09	0.52
1:F:2120:MET:O	1:F:2249:PRO:HD3	2.09	0.52
2:E:826:ASP:C	2:E:829:PRO:HD2	2.34	0.52
2:E:1089:LEU:HD11	2:E:1119:LEU:HB3	1.91	0.52
2:E:1619:LYS:HD2	2:E:1914:ARG:HD2	1.90	0.52
2:E:1887:LEU:HD23	2:E:1888:SER:N	2.24	0.52
2:E:1978:ALA:O	2:E:1982:ILE:HD11	2.10	0.52
1:H:2070:ASN:HD22	1:H:2235:GLN:CD	2.17	0.52
2:G:1393:THR:HG22	2:G:1394:ASP:N	2.23	0.52
2:G:1889:LEU:O	2:G:1988:HIS:NE2	2.43	0.52
1:B:2288:PRO:CB	2:A:1174:THR:HG21	2.35	0.52
2:A:1713:VAL:HG23	2:A:1743:ALA:HB2	1.91	0.52
2:A:2006:TRP:HB2	2:A:2009:ASP:OD2	2.09	0.52
1:D:2092:ASP:HB3	1:D:2095:VAL:HG12	1.91	0.52
2:C:2036:ASP:O	2:C:2040:GLN:HB2	2.09	0.52
2:C:2087:ASP:N	2:C:2087:ASP:OD1	2.42	0.52
1:F:2101:LEU:HD21	1:F:2151:ILE:CD1	2.39	0.52
2:E:498:PRO:HD3	2:E:734:ARG:CG	2.39	0.52
2:E:526:THR:C	2:E:528:THR:H	2.17	0.52
2:E:1068:ALA:HB3	2:E:1105:THR:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1487:LEU:HD23	2:E:1488:SER:HB3	1.91	0.52
1:H:2132:LEU:HB3	1:H:2133:PRO:HD2	1.92	0.52
2:G:2025:VAL:HG22	2:G:2056:LEU:HD22	1.91	0.52
2:A:1853:ILE:HG22	2:A:1869:ALA:HB2	1.92	0.52
2:A:2170:LEU:O	2:A:2184:PRO:HD2	2.09	0.52
2:C:931:SER:O	2:C:937:LEU:N	2.42	0.52
2:C:1509:HIS:CD2	2:C:1544:VAL:HG22	2.44	0.52
2:C:1590:LEU:HG	2:C:1594:MET:HE3	1.91	0.52
2:C:2002:VAL:CG1	2:C:2176:SER:HB2	2.36	0.52
1:F:2065:VAL:HG21	1:F:2236:LEU:O	2.08	0.52
2:E:804:HIS:HD1	2:E:807:GLY:HA2	1.73	0.52
1:H:2247:LEU:HB3	1:H:2273:VAL:HG11	1.91	0.52
2:G:596:VAL:HB	2:G:635:VAL:HG12	1.90	0.52
2:G:724:PHE:HB3	2:G:728:TYR:CD1	2.44	0.52
2:G:1090:LEU:O	2:G:1090:LEU:HD23	2.09	0.52
2:A:1235:ILE:HD11	2:A:1334:MET:CB	2.39	0.52
2:A:1685:LYS:HG3	2:A:1708:PHE:CE1	2.42	0.52
1:D:2302:VAL:HG11	2:C:1128:ALA:HA	1.91	0.52
2:C:1925:TYR:HA	2:C:1928:VAL:HG22	1.91	0.52
2:E:1235:ILE:O	2:E:1236:GLN:HG3	2.10	0.52
2:E:1434:GLN:O	2:E:1437:VAL:HG22	2.10	0.52
2:E:1679:SER:O	2:E:1683:ILE:HG13	2.09	0.52
1:H:2157:ASN:OD1	1:H:2158:GLU:N	2.31	0.52
2:G:844:ARG:O	2:G:848:GLU:HG3	2.09	0.52
2:G:1143:ALA:O	2:G:1147:ILE:HG13	2.10	0.52
2:G:1490:GLN:OE1	2:G:1492:LYS:N	2.42	0.52
2:G:2046:ASN:CB	2:G:2047:PRO:HD2	2.39	0.52
2:A:744:LYS:O	2:A:748:GLN:HG3	2.09	0.52
2:C:871:LEU:N	2:C:872:PRO:CD	2.73	0.52
2:C:1054:ILE:HD13	2:C:1144:ILE:HG23	1.92	0.52
2:C:1468:LEU:HD11	2:C:1494:ARG:NH2	2.25	0.52
2:C:1992:LEU:HD13	2:C:2132:VAL:CG2	2.38	0.52
2:G:581:LEU:HD22	2:G:612:ILE:HG22	1.90	0.52
2:G:636:THR:OG1	2:G:640:LYS:HB3	2.09	0.52
2:G:1142:ARG:HD2	2:G:1168:GLU:OE2	2.09	0.52
2:G:1490:GLN:OE1	2:G:1492:LYS:HG2	2.09	0.52
1:B:2288:PRO:HB3	2:A:1174:THR:CG2	2.35	0.52
2:A:775:VAL:HG11	2:A:781:THR:CA	2.39	0.52
2:A:809:ARG:O	2:A:813:GLN:HB2	2.09	0.52
2:A:844:ARG:O	2:A:848:GLU:HG3	2.10	0.52
2:A:1205:LEU:HD23	2:A:1210:MET:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1586:HIS:CE1	2:A:1588:PRO:HG2	2.45	0.52
2:A:1908:PHE:CE2	2:A:1971:LYS:HE2	2.44	0.52
2:A:2083:VAL:HG22	2:A:2097:LEU:HD13	1.92	0.52
2:A:2169:LYS:CE	2:A:2185:SER:HB3	2.38	0.52
2:C:1025:THR:HG23	2:C:1027:LYS:H	1.75	0.52
2:C:1254:THR:HG22	2:C:1301:GLU:HG3	1.92	0.52
2:C:1490:GLN:HG2	2:C:1490:GLN:O	2.10	0.52
1:F:2193:THR:HB	1:F:2194:PRO:HD2	1.90	0.52
1:F:2247:LEU:HB3	1:F:2273:VAL:CG1	2.40	0.52
2:E:1445:GLN:HA	2:E:1457:ILE:HD12	1.92	0.52
1:H:2202:TRP:CZ3	1:H:2233:ARG:HG3	2.44	0.52
1:H:2217:ASP:CB	1:H:2218:PRO:CD	2.88	0.52
1:H:2309:ALA:HB1	2:G:618:THR:OG1	2.10	0.52
2:G:647:LYS:HA	2:G:1039:HIS:CD2	2.45	0.52
2:G:736:GLU:CG	2:G:918:ILE:HG13	2.39	0.52
2:G:2115:VAL:CB	2:G:2126:GLU:H	2.22	0.52
2:A:805:ASP:OD1	2:A:806:ALA:N	2.43	0.52
2:A:1032:GLU:OE1	2:A:1035:ARG:NH2	2.43	0.52
2:A:1242:MET:HE3	2:A:1246:MET:HG2	1.91	0.52
2:A:1496:ASN:O	2:A:1499:THR:OG1	2.24	0.52
2:A:1679:SER:O	2:A:1683:ILE:HG13	2.10	0.52
2:A:1928:VAL:CG2	2:A:1949:GLN:HB3	2.28	0.52
2:C:1142:ARG:HD2	2:C:1168:GLU:OE2	2.10	0.52
2:C:1184:CYS:SG	2:C:1188:ILE:HD11	2.49	0.52
2:C:1214:LEU:CD1	2:C:1216:MET:HB2	2.40	0.52
2:C:1470:LEU:C	2:C:1470:LEU:HD12	2.35	0.52
2:E:1067:PHE:CE2	2:E:1112:LEU:HD22	2.44	0.52
2:E:1412:GLU:O	2:E:1416:LEU:HD13	2.08	0.52
2:E:1431:ALA:O	2:E:1481:PRO:HD3	2.09	0.52
2:E:2091:ALA:HB2	2:E:2191:ALA:N	2.24	0.52
2:G:736:GLU:HG3	2:G:918:ILE:HG13	1.92	0.52
2:G:1172:TRP:HD1	2:G:1175:MET:HE3	1.73	0.52
2:G:1820:PRO:O	2:G:1825:LEU:HG	2.10	0.52
2:G:1936:VAL:HG13	2:G:1939:SER:CB	2.39	0.52
2:G:2115:VAL:HB	2:G:2125:SER:CB	2.37	0.52
1:B:2297:LEU:HD12	1:B:2297:LEU:O	2.10	0.52
2:A:772:LEU:HD12	2:A:772:LEU:O	2.10	0.52
2:A:1460:LEU:CD1	2:A:1467:ASP:HB3	2.40	0.52
2:C:834:ILE:HG23	2:C:839:MET:CE	2.40	0.52
2:C:975:LEU:O	2:C:979:MET:HG3	2.10	0.52
2:C:980:LEU:HD23	2:C:998:LEU:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1357:GLN:CG	2:C:1358:PRO:HD2	2.39	0.52
2:C:1913:THR:HG22	2:C:1943:LYS:NZ	2.25	0.52
1:F:2063:MET:HA	1:F:2197:VAL:HG13	1.91	0.52
2:E:1368:ASP:OD1	2:E:1369:TYR:N	2.43	0.52
2:E:2091:ALA:HB2	2:E:2191:ALA:H	1.75	0.52
2:G:1428:VAL:HG21	2:G:1484:TRP:CZ2	2.45	0.52
2:G:1502:LEU:HD23	2:G:1502:LEU:C	2.35	0.52
2:G:1592:LEU:O	2:G:1592:LEU:HD23	2.10	0.52
2:G:1703:CYS:HG	2:G:1704:TRP:CD1	2.28	0.52
2:G:2098:LYS:HA	2:G:2155:LYS:HA	1.92	0.52
1:B:2091:ALA:CB	1:B:2153:THR:HG21	2.40	0.52
2:A:621:ARG:CD	2:A:622:GLN:HE21	2.21	0.52
2:A:1235:ILE:HG13	2:A:1334:MET:CE	2.40	0.52
2:A:1618:ARG:O	2:A:1621:THR:OG1	2.27	0.52
2:C:715:VAL:CG1	2:C:720:GLY:HA3	2.40	0.52
2:C:985:LEU:O	2:C:985:LEU:HD23	2.09	0.52
2:C:1171:MET:HE3	2:C:1328:MET:HE3	1.92	0.52
2:C:1242:MET:HE1	2:C:1307:THR:HG21	1.91	0.52
2:C:2048:ASN:O	2:C:2049:TYR:HB2	2.10	0.52
2:E:650:ASP:O	2:E:654:THR:HG23	2.10	0.52
2:E:898:ASP:O	2:E:902:MET:HG3	2.09	0.52
2:E:1243:THR:HG23	2:E:1347:PHE:CZ	2.45	0.52
2:E:1468:LEU:HD12	2:E:1469:LYS:N	2.24	0.52
2:G:1089:LEU:O	2:G:1093:VAL:HG13	2.10	0.52
2:G:1504:ILE:HD13	2:G:1540:VAL:HG13	1.92	0.52
2:G:1504:ILE:HD12	2:G:1540:VAL:O	2.10	0.52
2:G:1613:VAL:HG13	2:G:1714:VAL:HG23	1.91	0.52
2:G:1718:THR:CG2	2:G:1758:LEU:HB3	2.39	0.52
2:G:2115:VAL:N	2:G:2125:SER:HB3	2.25	0.52
2:A:872:PRO:HB2	2:A:908:ARG:CG	2.38	0.52
2:C:835:HIS:HB3	2:C:861:CYS:HB3	1.90	0.52
2:C:1396:ASN:OD1	2:C:1530:ARG:NH1	2.41	0.52
2:E:562:MET:HG2	2:E:606:ARG:NH2	2.25	0.52
2:G:615:SER:OG	2:G:631:THR:HG21	2.10	0.52
2:G:1247:LEU:HD13	2:G:1310:ILE:CG1	2.40	0.52
2:G:1855:GLU:HB2	2:G:1866:LEU:CD1	2.36	0.52
2:A:686:ARG:HA	2:A:689:GLN:HG2	1.91	0.51
2:C:1503:PHE:CD2	2:C:1539:ILE:HG23	2.45	0.51
2:C:2031:ILE:N	2:C:2031:ILE:HD12	2.25	0.51
1:F:2227:THR:CG2	1:F:2229:THR:HG22	2.40	0.51
2:E:832:PHE:HA	2:E:858:VAL:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1243:THR:HG22	2:E:1244:ARG:N	2.24	0.51
2:E:1898:ILE:O	2:E:1902:VAL:HG12	2.10	0.51
2:E:1934:ASN:ND2	2:E:1934:ASN:O	2.43	0.51
2:G:509:ASN:O	2:G:528:THR:OG1	2.28	0.51
2:G:647:LYS:HG2	2:G:1039:HIS:CD2	2.45	0.51
2:G:1359:LEU:HD21	2:G:1363:ALA:HB2	1.92	0.51
2:G:1928:VAL:HB	2:G:1949:GLN:OE1	2.11	0.51
2:G:1982:ILE:HD13	2:G:1986:GLU:HG3	1.92	0.51
2:G:2169:LYS:C	2:G:2185:SER:HB3	2.34	0.51
2:A:456:LYS:HD3	2:A:992:TYR:OH	2.10	0.51
2:A:496:VAL:HB	2:A:735:GLN:HG3	1.92	0.51
2:A:572:ASN:O	2:A:579:ILE:HD12	2.10	0.51
2:A:1587:PHE:HB3	2:A:1588:PRO:HD3	1.92	0.51
1:D:2101:LEU:HD11	1:D:2151:ILE:HG13	1.92	0.51
2:C:1007:HIS:HE1	2:C:1023:GLU:HG3	1.74	0.51
2:C:1983:LEU:HD12	2:C:1983:LEU:C	2.35	0.51
1:F:2082:ASN:HD21	1:F:2244:GLY:H	1.58	0.51
2:E:585:LYS:NZ	2:E:632:GLN:HA	2.26	0.51
2:E:665:ILE:HG22	2:E:700:SER:HB2	1.91	0.51
2:E:1396:ASN:ND2	2:E:1557:ASP:O	2.37	0.51
2:E:1401:ALA:HB1	2:E:1402:PRO:HD2	1.90	0.51
2:G:657:VAL:O	2:G:658:ARG:HD2	2.10	0.51
2:G:1180:GLN:O	2:G:1182:PRO:HD3	2.10	0.51
2:G:1184:CYS:SG	2:G:1188:ILE:HD11	2.50	0.51
2:G:1242:MET:HG3	2:G:1248:ARG:HB3	1.92	0.51
2:G:1426:ARG:CG	2:G:1499:THR:HG23	2.40	0.51
2:G:2141:LEU:O	2:G:2141:LEU:HD22	2.10	0.51
2:A:515:LEU:O	2:A:520:ARG:NH1	2.43	0.51
2:A:799:ASN:O	2:A:803:LYS:HD2	2.10	0.51
2:A:1108:ILE:HG23	2:A:1133:VAL:HG21	1.93	0.51
2:A:1152:GLY:HA2	2:A:1282:ILE:HB	1.93	0.51
1:D:2079:MET:HE1	1:D:2151:ILE:CD1	2.40	0.51
1:D:2309:ALA:CB	2:C:618:THR:HA	2.41	0.51
2:C:1358:PRO:HB2	2:C:1378:GLN:CG	2.40	0.51
2:C:2155:LYS:HG2	2:C:2156:LEU:N	2.25	0.51
2:E:622:GLN:O	2:E:625:LYS:HB3	2.11	0.51
2:E:757:TYR:O	2:E:761:LEU:HG	2.11	0.51
2:E:1509:HIS:HB3	2:E:1543:SER:OG	2.11	0.51
2:E:1908:PHE:CE1	2:E:1967:VAL:HG13	2.45	0.51
2:E:1982:ILE:HD12	2:E:1982:ILE:H	1.73	0.51
1:B:2300:ILE:HG22	1:B:2302:VAL:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2105:LEU:HD12	2:A:2105:LEU:O	2.10	0.51
1:D:2147:PRO:O	1:D:2148:LEU:HD12	2.11	0.51
2:C:777:SER:HB3	2:C:780:GLU:CB	2.41	0.51
2:C:976:PHE:CE2	2:C:980:LEU:HD11	2.45	0.51
2:C:1056:PRO:HG3	2:C:1153:TRP:CE2	2.46	0.51
2:C:1386:THR:HG22	2:C:1564:TYR:CE1	2.45	0.51
2:C:1391:TYR:HB2	2:C:1417:ARG:HB2	1.93	0.51
2:C:1451:LEU:HA	2:C:1454:GLY:O	2.11	0.51
2:E:1652:LEU:N	2:E:1652:LEU:HD12	2.25	0.51
2:E:1677:SER:O	2:E:1681:LYS:HG3	2.11	0.51
2:E:2140:LEU:HD23	2:E:2140:LEU:C	2.36	0.51
1:H:2160:PRO:HB2	1:H:2161:TYR:CD2	2.45	0.51
2:G:506:THR:HG22	2:G:508:GLN:CG	2.32	0.51
2:G:591:PRO:HD2	2:G:595:LEU:HD23	1.90	0.51
2:G:1676:LEU:O	2:G:1681:LYS:HE3	2.10	0.51
2:G:1713:VAL:HG23	2:G:1743:ALA:HB2	1.91	0.51
2:G:2034:ILE:HD12	2:G:2074:TYR:HE2	1.72	0.51
2:G:2113:PRO:HA	2:G:2126:GLU:OE2	2.11	0.51
1:B:2153:THR:HA	1:B:2190:VAL:HB	1.91	0.51
1:B:2296:GLU:HB3	2:A:1120:LYS:HG3	1.92	0.51
2:A:1138:GLY:O	2:A:1142:ARG:HG3	2.10	0.51
1:D:2289:ILE:HD12	1:D:2289:ILE:N	2.25	0.51
1:D:2301:TRP:HZ3	2:C:1124:LEU:HD23	1.75	0.51
2:C:1230:PHE:CZ	2:C:1330:SER:HB2	2.45	0.51
2:C:1587:PHE:N	2:C:1588:PRO:HD2	2.25	0.51
2:C:1993:ASN:O	2:C:1997:MET:HG2	2.10	0.51
2:E:1109:ASN:OD1	2:E:1113:GLN:NE2	2.36	0.51
2:E:1629:LEU:HD11	2:E:1664:ALA:HA	1.92	0.51
2:E:1711:HIS:CD2	2:E:1752:SER:HA	2.45	0.51
2:G:1072:GLU:OE1	2:G:1072:GLU:N	2.43	0.51
2:G:1622:ARG:NH2	2:G:1658:GLU:OE2	2.41	0.51
2:G:1883:GLU:O	2:G:1886:LEU:HD23	2.10	0.51
2:A:472:MET:CE	2:A:928:TYR:HA	2.41	0.51
2:A:620:ASP:HB3	2:A:624:THR:CG2	2.34	0.51
2:A:1073:PHE:CD2	2:A:1108:ILE:HG21	2.46	0.51
2:A:1811:TYR:CZ	2:A:1815:ARG:HD3	2.45	0.51
2:A:2135:GLU:OE2	2:A:2169:LYS:HG3	2.10	0.51
1:D:2087:PHE:HD1	1:D:2120:MET:HE1	1.75	0.51
1:D:2214:GLU:O	1:D:2216:LYS:N	2.43	0.51
2:C:1121:LEU:HB2	2:C:1127:MET:HE2	1.91	0.51
2:C:1428:VAL:HG13	2:C:1503:PHE:CD1	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1791:GLU:CB	2:C:1797:ILE:HG13	2.33	0.51
2:C:2107:GLU:HG2	2:C:2108:ASP:N	2.25	0.51
2:E:685:ARG:O	2:E:689:GLN:HG2	2.11	0.51
2:E:1236:GLN:CA	2:E:1334:MET:HE1	2.34	0.51
2:E:1890:SER:O	2:E:1893:SER:OG	2.24	0.51
1:H:2186:LEU:HD13	1:H:2201:ALA:HB1	1.92	0.51
2:G:709:VAL:HG22	2:G:974:TYR:CE1	2.46	0.51
2:G:992:TYR:CG	2:G:1001:LYS:HD3	2.45	0.51
2:G:1359:LEU:HD23	2:G:1360:PRO:O	2.10	0.51
2:G:1976:LEU:O	2:G:1980:VAL:HG23	2.11	0.51
2:G:2096:TYR:HA	2:G:2157:GLU:CB	2.41	0.51
2:G:2171:PHE:CD2	2:G:2183:ASP:HA	2.45	0.51
1:B:2250:ASP:CB	1:B:2272:HIS:HB3	2.41	0.51
2:C:1711:HIS:HA	2:C:1745:GLN:O	2.10	0.51
2:C:1906:THR:HA	2:C:1909:GLU:HG3	1.91	0.51
2:C:1994:ALA:HA	2:C:1997:MET:HG2	1.92	0.51
2:C:2031:ILE:HG21	2:C:2037:PHE:HD1	1.76	0.51
1:F:2170:HIS:ND1	1:F:2187:THR:OG1	2.42	0.51
2:G:751:THR:O	2:G:755:ILE:HG13	2.10	0.51
2:G:1171:MET:HE3	2:G:1328:MET:HG2	1.93	0.51
2:G:1401:ALA:HB1	2:G:1402:PRO:HD2	1.93	0.51
2:G:1574:PRO:HD2	2:G:1750:GLY:O	2.10	0.51
2:A:578:GLU:HG3	2:A:579:ILE:N	2.25	0.51
2:A:746:ILE:HD12	2:A:746:ILE:N	2.25	0.51
2:A:1243:THR:HG22	2:A:1244:ARG:N	2.25	0.51
2:A:1792:ILE:HG22	2:A:1865:PRO:CB	2.30	0.51
2:C:976:PHE:CD1	2:C:1002:ARG:HD3	2.46	0.51
2:C:1244:ARG:NH1	2:C:1343:LEU:HB2	2.26	0.51
2:C:1387:PHE:HA	2:C:1390:LEU:HB2	1.91	0.51
2:E:1586:HIS:HB3	2:E:1589:SER:HB2	1.92	0.51
2:E:2085:ASP:N	2:E:2086:PRO:HD3	2.25	0.51
2:G:1420:ALA:C	2:G:1421:LYS:HG3	2.35	0.51
2:G:1590:LEU:HD11	2:G:1594:MET:HE3	1.91	0.51
2:G:1674:GLU:HB2	2:G:1963:LYS:NZ	2.25	0.51
2:G:1735:GLU:HG2	2:G:1739:MET:HE3	1.92	0.51
2:G:1820:PRO:CB	2:G:1825:LEU:HD11	2.40	0.51
2:A:469:ASN:ND2	2:A:670:ASP:OD2	2.44	0.51
2:A:2025:VAL:HG11	2:A:2055:ASP:HB3	1.93	0.51
2:C:846:ASP:O	2:C:850:LEU:HG	2.10	0.51
2:C:1086:LEU:O	2:C:1090:LEU:N	2.43	0.51
2:C:1895:LEU:O	2:C:1898:ILE:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2054:SER:O	1:F:2057:ARG:HG2	2.10	0.51
2:E:798:ILE:HD12	2:E:801:ILE:CD1	2.41	0.51
2:E:1614:PHE:HB3	2:E:1739:MET:HE3	1.93	0.51
2:E:2079:LEU:HD23	2:E:2079:LEU:H	1.76	0.51
1:H:2084:LEU:HD21	1:H:2199:LEU:HD11	1.92	0.51
2:G:975:LEU:O	2:G:979:MET:HG3	2.10	0.51
2:G:1884:MET:HE3	2:G:1901:ILE:HG23	1.91	0.51
1:B:2255:ASN:HB3	1:B:2286:HIS:CG	2.46	0.51
2:A:482:GLY:HA3	2:A:497:PRO:HG3	1.93	0.51
2:A:530:ASN:OD1	2:A:532:ILE:HG12	2.11	0.51
2:A:751:THR:O	2:A:755:ILE:HG13	2.11	0.51
2:A:1042:ILE:HD11	2:A:1140:ILE:HA	1.92	0.51
2:A:1360:PRO:HA	2:A:1378:GLN:HA	1.91	0.51
2:A:1642:LEU:HD21	2:A:1646:VAL:HG12	1.93	0.51
2:C:601:GLY:O	2:C:605:LYS:HG2	2.11	0.51
2:C:760:VAL:HG12	2:C:761:LEU:HD12	1.93	0.51
2:C:1101:ILE:O	2:C:1101:ILE:HD12	2.11	0.51
1:F:2152:HIS:HE1	1:F:2154:MET:HE3	1.75	0.51
2:E:472:MET:HG3	2:E:928:TYR:HD1	1.76	0.51
2:E:623:LEU:O	2:E:624:THR:OG1	2.21	0.51
2:E:2131:VAL:HG22	2:E:2143:ILE:HG13	1.92	0.51
1:H:2065:VAL:HG11	1:H:2236:LEU:O	2.11	0.51
1:H:2227:THR:HG21	1:H:2229:THR:HG22	1.93	0.51
1:H:2297:LEU:O	1:H:2297:LEU:HD12	2.10	0.51
2:G:516:PRO:HB3	2:G:518:TRP:NE1	2.25	0.51
2:G:1892:LYS:HA	2:G:1988:HIS:NE2	2.25	0.51
2:G:2007:ASP:OD1	2:G:2008:ARG:N	2.39	0.51
1:B:2104:CYS:HB3	1:B:2145:LEU:HD23	1.92	0.50
2:A:970:LEU:O	2:A:973:THR:HG22	2.11	0.50
2:A:1231:PRO:HG3	2:A:1327:TRP:CD1	2.46	0.50
2:A:1573:VAL:HG11	2:A:1746:PRO:HB3	1.93	0.50
2:A:1774:LEU:HD12	2:A:1775:PRO:CD	2.41	0.50
2:C:629:SER:HB2	2:C:653:TYR:CZ	2.46	0.50
2:C:820:ASN:HB2	2:C:843:ASP:OD2	2.11	0.50
2:C:822:THR:HG22	2:C:823:ASP:O	2.11	0.50
2:C:1665:LEU:HD22	2:C:1687:LEU:HD23	1.93	0.50
2:C:1952:PHE:HB3	2:C:2006:TRP:HE3	1.75	0.50
2:C:2034:ILE:HA	2:C:2037:PHE:HB3	1.93	0.50
2:E:504:ASP:N	2:E:505:PRO:HD3	2.25	0.50
2:E:1064:PHE:HB3	2:E:1109:ASN:ND2	2.25	0.50
2:E:1310:ILE:HD13	2:E:1318:TYR:OH	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2045:GLU:O	1:H:2049:ARG:HG3	2.11	0.50
2:G:1101:ILE:HG23	2:G:1102:GLU:N	2.21	0.50
2:G:1625:ALA:HA	2:G:1697:ILE:HD12	1.92	0.50
2:G:2026:ALA:CB	2:G:2031:ILE:HD11	2.36	0.50
2:A:1191:LYS:NZ	2:A:1214:LEU:O	2.38	0.50
2:A:1539:ILE:N	2:A:1539:ILE:HD12	2.26	0.50
2:A:1559:LYS:O	2:A:1563:ILE:HG23	2.11	0.50
1:D:2092:ASP:CB	1:D:2095:VAL:HG12	2.40	0.50
2:C:585:LYS:O	2:C:657:VAL:HA	2.11	0.50
2:C:1246:MET:HB2	2:C:1768:LYS:HZ2	1.77	0.50
2:C:1952:PHE:HB3	2:C:2006:TRP:CE3	2.46	0.50
2:E:775:VAL:HG11	2:E:781:THR:HB	1.92	0.50
2:E:1093:VAL:HG11	2:E:1110:VAL:HG13	1.92	0.50
2:E:1352:GLU:O	2:E:1354:LEU:HD12	2.11	0.50
1:H:2300:ILE:HG23	2:G:1127:MET:SD	2.50	0.50
2:G:959:ASN:HD22	2:G:959:ASN:H	1.58	0.50
2:G:1007:HIS:O	2:G:1011:MET:HG2	2.12	0.50
2:G:1247:LEU:HD13	2:G:1310:ILE:HG13	1.92	0.50
2:G:1396:ASN:HD21	2:G:1558:ALA:HB2	1.73	0.50
2:G:1652:LEU:N	2:G:1652:LEU:HD12	2.27	0.50
2:G:1706:LEU:HD11	2:G:1708:PHE:CD2	2.46	0.50
2:G:1867:ASN:O	2:G:1871:ILE:HG13	2.12	0.50
2:G:2015:ILE:H	2:G:2015:ILE:HD12	1.77	0.50
2:A:1587:PHE:CE2	2:A:1591:MET:HE3	2.45	0.50
1:D:2284:GLU:HG2	2:C:1174:THR:HG21	1.93	0.50
2:C:454:PRO:HD3	2:C:963:ARG:HH12	1.76	0.50
2:C:1715:VAL:HG13	2:C:1739:MET:HE1	1.93	0.50
2:C:1857:ASP:HA	2:C:1861:GLY:CA	2.34	0.50
2:C:1972:ILE:O	2:C:1976:LEU:HG	2.10	0.50
2:C:2029:TYR:CD2	2:C:2053:VAL:HG22	2.46	0.50
2:E:1497:VAL:O	2:E:1500:VAL:HG22	2.10	0.50
2:E:1633:LEU:HD12	2:E:1634:ALA:N	2.26	0.50
2:E:2071:ASN:HD21	2:E:2073:LYS:HB2	1.75	0.50
2:G:1155:SER:O	2:G:1159:LEU:HD13	2.11	0.50
2:G:1314:MET:HE2	2:G:1343:LEU:HD11	1.92	0.50
2:G:1902:VAL:CG2	2:G:1971:LYS:HE3	2.42	0.50
1:B:2216:LYS:O	1:B:2217:ASP:HB2	2.11	0.50
2:A:1104:PRO:O	2:A:1108:ILE:HG12	2.12	0.50
2:A:1876:ASN:O	2:A:1876:ASN:ND2	2.44	0.50
2:C:504:ASP:OD1	2:C:504:ASP:N	2.42	0.50
2:C:547:MET:HE3	2:C:722:PHE:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:607:LEU:HD12	2:C:612:ILE:CD1	2.37	0.50
2:C:872:PRO:HD3	2:C:905:ARG:HG3	1.93	0.50
2:C:1276:ASP:HB3	2:C:1283:LEU:HD11	1.94	0.50
2:C:1438:ASP:HA	2:C:1441:PHE:HB3	1.93	0.50
2:C:1685:LYS:HD2	2:C:1686:HIS:N	2.26	0.50
2:C:1897:THR:O	2:C:1901:ILE:HG13	2.11	0.50
2:C:1996:GLU:O	2:C:2000:MET:HG3	2.11	0.50
2:E:2169:LYS:HG3	2:E:2184:PRO:O	2.11	0.50
2:G:501:LYS:HD2	2:G:501:LYS:O	2.10	0.50
2:G:687:THR:HG23	2:G:692:GLU:O	2.10	0.50
2:G:809:ARG:O	2:G:813:GLN:HG2	2.10	0.50
2:G:1525:ARG:O	2:G:1529:ILE:HG23	2.11	0.50
2:G:2041:MET:HE1	2:G:2063:LEU:HD22	1.93	0.50
2:G:2169:LYS:HA	2:G:2185:SER:HB3	1.94	0.50
1:B:2247:LEU:HD23	1:B:2275:LEU:HA	1.92	0.50
2:A:1353:LEU:HD22	2:A:1570:VAL:HG11	1.92	0.50
2:A:1428:VAL:HG13	2:A:1477:ILE:CD1	2.41	0.50
2:A:1504:ILE:HD12	2:A:1540:VAL:O	2.11	0.50
1:D:2284:GLU:HG2	2:C:1174:THR:CG2	2.42	0.50
2:C:1434:GLN:O	2:C:1437:VAL:HG22	2.12	0.50
2:C:1996:GLU:C	2:C:1997:MET:HE2	2.37	0.50
2:E:501:LYS:CG	2:E:727:SER:HB2	2.42	0.50
2:E:555:SER:N	3:E:2201:ACT:OXT	2.45	0.50
2:E:617:LEU:CD2	2:E:640:LYS:HG3	2.40	0.50
2:E:826:ASP:N	2:E:826:ASP:OD1	2.45	0.50
2:E:1539:ILE:HB	2:E:1556:ILE:CG2	2.42	0.50
2:E:1668:GLY:HA2	2:E:1693:ILE:HG22	1.92	0.50
2:E:2142:ALA:CB	2:E:2158:PHE:HA	2.42	0.50
2:E:2167:ASP:C	2:E:2168:LEU:HD12	2.36	0.50
1:H:2047:ARG:HD3	2:G:1098:LYS:HE3	1.93	0.50
2:G:1530:ARG:HH21	2:G:1539:ILE:HG13	1.77	0.50
2:G:1785:PRO:HB2	2:G:1879:TYR:CZ	2.47	0.50
2:G:1895:LEU:CD2	2:G:1896:ARG:H	2.25	0.50
1:B:2296:GLU:HG3	2:A:1119:LEU:HA	1.93	0.50
2:A:464:VAL:HG21	2:A:945:SER:HB3	1.92	0.50
2:A:777:SER:HB3	2:A:780:GLU:HB2	1.92	0.50
1:D:2301:TRP:HA	2:C:778:ARG:HD2	1.93	0.50
2:C:1383:GLN:O	2:C:1387:PHE:HB3	2.10	0.50
2:C:1468:LEU:HD23	2:C:1468:LEU:O	2.12	0.50
2:C:1713:VAL:HG23	2:C:1743:ALA:HB2	1.93	0.50
2:E:623:LEU:O	2:E:623:LEU:HD12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2139:THR:HG22	2:E:2140:LEU:N	2.26	0.50
2:G:452:LEU:CD1	2:G:999:GLU:HG2	2.41	0.50
2:G:722:PHE:HB3	2:G:724:PHE:CE2	2.46	0.50
2:G:772:LEU:HD12	2:G:772:LEU:O	2.11	0.50
2:G:1720:PHE:CE1	2:G:1729:ILE:HD11	2.47	0.50
2:G:1863:VAL:O	2:G:1863:VAL:HG23	2.11	0.50
2:G:2034:ILE:HD12	2:G:2074:TYR:CD2	2.46	0.50
2:A:1359:LEU:O	2:A:1359:LEU:HD12	2.11	0.50
2:A:1487:LEU:HD23	2:A:1488:SER:N	2.27	0.50
2:A:1969:LEU:CD2	2:A:2121:PRO:HG2	2.41	0.50
1:D:2218:PRO:HD2	1:D:2219:ASN:N	2.27	0.50
2:C:1504:ILE:N	2:C:1504:ILE:HD12	2.27	0.50
2:E:784:THR:OG1	2:E:879:LYS:HE2	2.12	0.50
2:E:1530:ARG:HD3	2:E:1537:MET:HE2	1.94	0.50
2:E:1675:ALA:HA	2:E:1963:LYS:CD	2.37	0.50
2:E:1793:SER:HB2	2:E:1870:MET:SD	2.52	0.50
2:E:1983:LEU:HD21	2:E:2143:ILE:CD1	2.42	0.50
1:H:2083:ILE:CG2	1:H:2118:ILE:HD12	2.42	0.50
2:G:607:LEU:CB	2:G:612:ILE:HD11	2.40	0.50
2:G:843:ASP:O	2:G:847:VAL:HG23	2.12	0.50
2:G:1461:THR:HG23	2:G:1462:GLY:N	2.25	0.50
2:G:1657:GLN:NE2	2:G:1677:SER:HB3	2.27	0.50
2:G:1827:ASP:OD1	2:G:1829:THR:OG1	2.24	0.50
2:G:1988:HIS:HB3	2:G:1990:ASN:CG	2.36	0.50
2:A:494:ILE:N	2:A:494:ILE:HD12	2.26	0.50
2:A:618:THR:HA	2:A:640:LYS:HE2	1.94	0.50
2:A:710:ALA:HB3	2:A:717:PHE:HE1	1.77	0.50
2:A:781:THR:HG23	2:A:834:ILE:CD1	2.42	0.50
2:A:1203:PHE:HB3	2:A:1232:ARG:HH21	1.77	0.50
2:A:1247:LEU:CD1	2:A:1310:ILE:HG13	2.31	0.50
2:A:1428:VAL:HG13	2:A:1477:ILE:HD11	1.94	0.50
2:A:1487:LEU:HD23	2:A:1488:SER:HB3	1.93	0.50
2:A:2128:TRP:CD1	2:A:2148:VAL:HG12	2.47	0.50
2:C:772:LEU:O	2:C:876:VAL:HA	2.12	0.50
2:C:1070:SER:HB2	2:C:1073:PHE:CD2	2.47	0.50
2:C:1378:GLN:OE1	2:C:1378:GLN:N	2.43	0.50
2:C:1525:ARG:HD3	2:C:1791:GLU:OE2	2.12	0.50
2:E:955:ILE:HG12	2:E:960:VAL:HG13	1.94	0.50
2:E:1788:PHE:O	2:E:1792:ILE:HG12	2.11	0.50
2:E:2051:SER:HB2	2:E:2054:LYS:CA	2.41	0.50
2:G:785:ALA:CB	2:G:827:LEU:HD21	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:926:ILE:N	2:G:927:PRO:CD	2.75	0.50
2:G:952:ASN:O	2:G:956:VAL:HG23	2.12	0.50
2:G:1073:PHE:HE1	2:G:1133:VAL:HA	1.76	0.50
2:G:2051:SER:C	2:G:2052:LEU:HG	2.37	0.50
2:G:2171:PHE:HD2	2:G:2183:ASP:HA	1.76	0.50
2:G:2172:LEU:HD23	2:G:2172:LEU:H	1.76	0.50
2:A:1251:LEU:HB3	2:A:1304:VAL:CG1	2.41	0.50
2:A:1276:ASP:HB3	2:A:1283:LEU:HD11	1.94	0.50
2:A:1375:ASN:OD1	2:A:1376:TRP:N	2.43	0.50
2:A:2000:MET:HB3	2:A:2005:MET:O	2.12	0.50
1:D:2309:ALA:HB1	2:C:618:THR:OG1	2.12	0.50
2:C:1460:LEU:HD12	2:C:1461:THR:H	1.77	0.50
2:C:1927:HIS:CB	2:C:1955:MET:HE1	2.42	0.50
2:C:2050:ALA:HB3	2:C:2053:VAL:HG23	1.93	0.50
1:F:2236:LEU:HD23	1:F:2237:LEU:N	2.27	0.50
2:E:661:ILE:CG1	2:E:697:ILE:HD11	2.29	0.50
2:E:680:VAL:O	2:E:684:ILE:HG12	2.11	0.50
2:E:760:VAL:HG13	2:E:761:LEU:N	2.25	0.50
2:E:772:LEU:CD1	2:E:876:VAL:HG13	2.42	0.50
2:E:2015:ILE:HD11	2:E:2034:ILE:HG22	1.92	0.50
1:H:2149:GLY:HA2	1:H:2180:TRP:CZ3	2.47	0.50
2:G:841:ARG:CG	2:G:845:THR:HG23	2.32	0.50
2:G:953:ALA:O	2:G:957:LEU:HD13	2.11	0.50
2:G:1413:PHE:O	2:G:1416:LEU:HD12	2.11	0.50
2:G:1886:LEU:CD1	2:G:1887:LEU:HD22	2.41	0.50
2:G:2072:ASN:O	2:G:2072:ASN:ND2	2.45	0.50
2:A:918:ILE:N	2:A:918:ILE:HD12	2.27	0.49
2:A:1184:CYS:SG	2:A:1188:ILE:HD11	2.51	0.49
2:A:1412:GLU:O	2:A:1416:LEU:HD13	2.12	0.49
2:A:1434:GLN:O	2:A:1437:VAL:HG22	2.12	0.49
2:A:1700:ARG:NH2	2:A:1735:GLU:OE2	2.45	0.49
2:C:871:LEU:N	2:C:872:PRO:HD2	2.26	0.49
2:C:921:THR:OG1	2:C:922:THR:N	2.42	0.49
2:C:1747:SER:OG	2:C:1748:LYS:N	2.45	0.49
2:C:2078:THR:CB	2:C:2103:ARG:HA	2.42	0.49
2:E:1890:SER:HA	2:E:1988:HIS:CE1	2.47	0.49
2:E:2130:LEU:HB3	2:E:2156:LEU:HD22	1.94	0.49
1:H:2097:VAL:HG22	1:H:2153:THR:OG1	2.11	0.49
2:A:466:ASP:OD1	2:A:466:ASP:N	2.44	0.49
2:A:471:LEU:HD23	2:A:940:GLU:HG3	1.93	0.49
2:A:1984:SER:C	2:A:1986:GLU:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:532:ILE:HG13	2:C:724:PHE:CE2	2.47	0.49
2:C:590:ALA:HB3	2:C:596:VAL:CG1	2.42	0.49
2:C:616:GLU:HA	2:C:635:VAL:O	2.11	0.49
2:C:642:ASP:O	2:C:646:ARG:HG3	2.11	0.49
2:C:1021:TYR:CD1	2:C:1028:MET:HG2	2.39	0.49
2:C:1487:LEU:HD23	2:C:1488:SER:N	2.27	0.49
2:C:1853:ILE:HG23	2:C:1854:ILE:HD12	1.94	0.49
2:C:1855:GLU:HG3	2:C:1856:MET:N	2.27	0.49
2:C:1928:VAL:HG11	2:C:1949:GLN:HB3	1.94	0.49
2:C:1996:GLU:O	2:C:1999:GLN:HB3	2.12	0.49
1:F:2158:GLU:C	1:F:2159:LEU:HD13	2.37	0.49
2:E:660:ILE:HG13	2:E:696:ILE:HG23	1.94	0.49
2:E:764:VAL:CG1	2:E:802:LEU:HB2	2.42	0.49
2:E:1070:SER:HB2	2:E:1073:PHE:CD2	2.47	0.49
2:G:532:ILE:HG22	2:G:533:GLN:OE1	2.12	0.49
2:G:802:LEU:HD12	2:G:805:ASP:HB3	1.92	0.49
2:G:1246:MET:C	2:G:1247:LEU:HD12	2.37	0.49
2:G:1433:PHE:HB2	2:G:1436:LEU:CD2	2.42	0.49
2:G:2081:PHE:HB2	2:G:2099:ILE:CG1	2.42	0.49
2:G:2085:ASP:N	2:G:2086:PRO:HD3	2.26	0.49
2:A:1392:ASN:O	2:A:1393:THR:OG1	2.22	0.49
2:A:2017:ASN:O	2:A:2017:ASN:ND2	2.45	0.49
2:C:2173:MET:HG3	2:C:2174:SER:N	2.27	0.49
1:F:2171:ALA:HB1	1:F:2213:VAL:HG23	1.94	0.49
2:E:770:GLN:HE22	2:E:908:ARG:NH1	2.10	0.49
2:E:1291:ARG:HB2	2:E:1294:LEU:HB2	1.94	0.49
2:E:1816:LEU:HD11	2:E:1836:TYR:HE2	1.77	0.49
2:E:2141:LEU:N	2:E:2141:LEU:HD12	2.27	0.49
1:H:2092:ASP:OD2	1:H:2095:VAL:HG22	2.12	0.49
2:G:500:LYS:HZ3	2:G:502:ARG:HB2	1.77	0.49
2:G:547:MET:HG2	2:G:697:ILE:CD1	2.42	0.49
2:G:762:GLU:O	2:G:766:GLN:HB3	2.11	0.49
2:G:1016:SER:O	2:G:1018:LEU:N	2.46	0.49
2:G:1914:ARG:HE	2:G:1960:ASP:HB3	1.75	0.49
2:G:1983:LEU:C	2:G:1983:LEU:HD12	2.37	0.49
2:A:533:GLN:NE2	2:A:559:ASN:HB2	2.27	0.49
2:A:1236:GLN:O	2:A:1252:THR:N	2.38	0.49
2:A:1286:ASP:OD1	2:A:1287:VAL:N	2.45	0.49
2:A:1979:ILE:HG12	2:A:1994:ALA:HB3	1.93	0.49
1:D:2113:LYS:NZ	1:D:2146:GLU:OE1	2.32	0.49
2:C:461:GLU:O	2:C:464:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:650:ASP:O	2:C:654:THR:HG23	2.13	0.49
2:C:1517:TYR:HB2	2:C:1780:LEU:CD2	2.43	0.49
2:C:1859:ASP:O	2:C:1860:GLU:HB3	2.13	0.49
2:C:2044:GLU:OE1	2:C:2044:GLU:N	2.45	0.49
1:F:2103:GLY:O	1:F:2146:GLU:N	2.36	0.49
1:F:2289:ILE:HG23	1:F:2290:HIS:CD2	2.46	0.49
2:E:467:GLN:O	2:E:471:LEU:HB2	2.12	0.49
2:E:468:GLY:HA2	2:E:942:GLN:NE2	2.27	0.49
2:E:724:PHE:HB3	2:E:728:TYR:CD2	2.48	0.49
2:E:803:LYS:O	2:E:803:LYS:HG2	2.11	0.49
2:E:1506:ASP:HA	2:E:1542:LEU:HB2	1.93	0.49
2:E:1587:PHE:HB3	2:E:1588:PRO:HD3	1.95	0.49
2:E:2035:PHE:HA	2:E:2038:MET:HG2	1.95	0.49
2:E:2115:VAL:HG13	2:E:2177:TYR:CZ	2.47	0.49
2:E:2132:VAL:CG2	2:E:2156:LEU:HD11	2.41	0.49
1:H:2150:LEU:C	1:H:2150:LEU:HD12	2.37	0.49
2:G:617:LEU:HD11	2:G:634:ILE:HD13	1.93	0.49
2:G:1884:MET:HG3	2:G:1885:PHE:H	1.78	0.49
2:G:1886:LEU:HD12	2:G:1887:LEU:HD13	1.94	0.49
2:G:1962:ALA:O	2:G:1965:GLN:HB3	2.12	0.49
2:G:2046:ASN:HB3	2:G:2047:PRO:HD2	1.94	0.49
2:G:2102:GLU:HG3	2:G:2103:ARG:N	2.25	0.49
2:G:2116:HIS:CD2	2:G:2118:PRO:HD3	2.47	0.49
2:A:1458:VAL:HG21	2:A:1470:LEU:HD22	1.94	0.49
2:C:589:ILE:HD12	2:C:662:ILE:CD1	2.42	0.49
2:C:1075:TYR:O	2:C:1077:PRO:HD3	2.11	0.49
2:C:1178:LEU:HA	2:C:1181:TYR:HD2	1.77	0.49
2:C:1326:ARG:HG3	2:C:1327:TRP:CD1	2.47	0.49
2:C:1889:LEU:HD12	2:C:1901:ILE:HD13	1.94	0.49
2:E:481:GLU:OE1	2:E:481:GLU:N	2.45	0.49
2:E:1354:LEU:HD13	2:E:1385:GLN:NE2	2.27	0.49
2:E:2039:GLU:O	2:E:2045:GLU:HG2	2.12	0.49
1:H:2193:THR:HB	1:H:2194:PRO:HD2	1.95	0.49
2:G:746:ILE:HD12	2:G:746:ILE:N	2.25	0.49
2:G:908:ARG:O	2:G:912:ASP:N	2.33	0.49
2:G:1356:LEU:HD12	2:G:1384:THR:HG22	1.93	0.49
2:G:2115:VAL:CG2	2:G:2126:GLU:H	2.26	0.49
1:B:2253:LYS:CG	1:B:2279:LEU:HD12	2.43	0.49
2:A:776:HIS:ND1	2:A:883:VAL:HG22	2.27	0.49
2:A:930:LEU:O	2:A:934:ASN:HB2	2.13	0.49
2:A:1394:ASP:CB	2:A:1417:ARG:HE	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1432:PRO:HB2	2:A:1433:PHE:CD1	2.47	0.49
2:A:1464:THR:O	2:A:1468:LEU:HD23	2.11	0.49
2:A:1587:PHE:HB3	2:A:1588:PRO:CD	2.42	0.49
2:A:1792:ILE:CG2	2:A:1865:PRO:HB3	2.33	0.49
2:A:1801:GLU:OE1	2:A:1801:GLU:N	2.45	0.49
2:C:593:LYS:O	2:C:596:VAL:HG22	2.13	0.49
2:C:771:MET:HE3	2:C:877:ILE:CD1	2.40	0.49
2:C:1476:LEU:HD23	2:C:1477:ILE:N	2.28	0.49
2:C:2134:GLU:OE1	2:C:2135:GLU:N	2.34	0.49
2:E:1673:HIS:CE1	2:E:1676:LEU:HB2	2.48	0.49
2:E:1678:GLN:O	2:E:1682:ARG:HG3	2.13	0.49
2:E:1894:LYS:HB2	2:E:1897:THR:HG23	1.95	0.49
2:E:2071:ASN:HD22	2:E:2071:ASN:H	1.60	0.49
1:H:2056:LEU:HA	1:H:2059:ARG:HG3	1.95	0.49
2:G:1082:GLU:CD	2:G:1126:LEU:HG	2.38	0.49
2:G:1165:LYS:CB	2:G:1328:MET:HE2	2.42	0.49
2:G:1415:LEU:HD13	2:G:1502:LEU:HD13	1.95	0.49
2:G:1430:ILE:HD12	2:G:1503:PHE:CE1	2.47	0.49
2:G:2127:ASN:OD1	2:G:2145:ARG:NH2	2.44	0.49
1:B:2159:LEU:HD21	1:B:2161:TYR:CZ	2.47	0.49
2:A:899:VAL:HG21	2:A:929:TYR:HE2	1.78	0.49
2:A:1161:LEU:HG	2:A:1165:LYS:HE3	1.93	0.49
2:A:1285:HIS:O	2:A:1761:VAL:HG11	2.12	0.49
2:A:1461:THR:HB	2:A:1467:ASP:OD1	2.13	0.49
2:C:1089:LEU:HD12	2:C:1119:LEU:HD13	1.95	0.49
2:C:1268:GLU:CD	2:C:1326:ARG:HH11	2.21	0.49
2:E:1390:LEU:HD21	2:E:1397:VAL:HG11	1.94	0.49
2:E:1710:ALA:O	2:E:1743:ALA:HA	2.13	0.49
2:G:539:THR:HG22	2:G:547:MET:HE2	1.95	0.49
2:G:1437:VAL:HG11	2:G:1480:THR:HG22	1.93	0.49
2:G:1456:GLU:OE2	2:G:1474:GLY:HA2	2.13	0.49
2:G:1816:LEU:HD11	2:G:1825:LEU:HD23	1.94	0.49
2:G:1998:SER:O	2:G:2001:VAL:HG12	2.13	0.49
2:G:2015:ILE:HD12	2:G:2015:ILE:N	2.28	0.49
1:B:2105:SER:HB3	1:B:2113:LYS:HD2	1.95	0.49
2:A:476:ARG:HH22	2:A:478:ARG:NH1	2.11	0.49
2:A:550:CYS:HB2	2:A:723:TYR:HA	1.95	0.49
2:A:642:ASP:O	2:A:646:ARG:HG3	2.12	0.49
2:A:775:VAL:HG11	2:A:781:THR:HA	1.95	0.49
2:C:1243:THR:HG22	2:C:1244:ARG:N	2.27	0.49
2:C:1594:MET:C	2:C:1597:PRO:HD2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:773:ILE:HD12	2:E:773:ILE:N	2.28	0.49
2:E:1616:PRO:O	2:E:1700:ARG:HG2	2.12	0.49
2:G:739:GLY:HA2	2:G:921:THR:O	2.13	0.49
2:G:798:ILE:HG23	2:G:804:HIS:CD2	2.47	0.49
2:G:903:LEU:HD22	2:G:933:LEU:HD13	1.94	0.49
2:G:1289:ILE:N	2:G:1289:ILE:HD12	2.27	0.49
2:G:1855:GLU:O	2:G:1864:ALA:HB3	2.12	0.49
2:G:1924:ILE:O	2:G:1928:VAL:HG13	2.12	0.49
2:G:2051:SER:O	2:G:2052:LEU:HG	2.13	0.49
2:G:2171:PHE:CE1	2:G:2173:MET:HE2	2.48	0.49
2:A:1431:ALA:HB3	2:A:1437:VAL:HG12	1.95	0.49
2:A:1465:THR:HG23	2:A:1466:THR:N	2.28	0.49
2:A:1517:TYR:O	2:A:1521:ILE:HG13	2.12	0.49
2:A:1843:THR:O	2:A:1846:LYS:HG2	2.12	0.49
2:A:1967:VAL:O	2:A:1971:LYS:HG3	2.11	0.49
1:D:2296:GLU:HG2	2:C:1120:LYS:HB3	1.94	0.49
2:C:1127:MET:O	2:C:1131:VAL:HG23	2.13	0.49
2:C:1428:VAL:HG12	2:C:1500:VAL:HG21	1.95	0.49
1:F:2267:GLU:HG2	1:F:2268:LYS:N	2.28	0.49
2:E:532:ILE:HD13	2:E:728:TYR:CD1	2.47	0.49
2:E:702:THR:HB	2:E:935:GLN:HG3	1.94	0.49
2:E:739:GLY:HA2	2:E:921:THR:O	2.13	0.49
2:E:1245:SER:O	2:E:1310:ILE:N	2.43	0.49
2:E:1570:VAL:HG12	2:E:1570:VAL:O	2.13	0.49
2:E:1920:ILE:HD12	2:E:1920:ILE:N	2.28	0.49
2:G:729:ARG:HH12	2:G:904:GLY:HA2	1.77	0.49
2:G:1142:ARG:HG2	2:G:1164:CYS:SG	2.53	0.49
2:G:1792:ILE:CG2	2:G:1865:PRO:HB3	2.38	0.49
2:G:2040:GLN:HG3	2:G:2045:GLU:OE1	2.13	0.49
1:B:2164:PRO:HG2	1:B:2221:ASP:O	2.12	0.49
2:A:510:ILE:HD13	2:A:534:SER:HB3	1.94	0.49
2:A:543:ASP:OD2	2:A:719:LYS:HD2	2.12	0.49
2:A:1457:ILE:HG23	2:A:1476:LEU:CB	2.40	0.49
2:A:1840:LEU:C	2:A:1840:LEU:HD13	2.38	0.49
1:D:2174:VAL:CG1	1:D:2181:LYS:HB3	2.40	0.49
1:D:2255:ASN:HB3	1:D:2286:HIS:CG	2.48	0.49
2:C:660:ILE:CD1	2:C:696:ILE:HG13	2.41	0.49
2:C:943:LEU:HD22	2:C:973:THR:OG1	2.13	0.49
2:C:1058:MET:HE3	2:C:1062:GLU:HB3	1.95	0.49
2:C:1574:PRO:HG2	2:C:1751:ARG:HA	1.94	0.49
2:C:1712:LEU:HA	2:C:1753:ARG:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2078:THR:OG1	2:C:2104:GLU:O	2.31	0.49
2:E:1242:MET:HE3	2:E:1769:PHE:CZ	2.48	0.49
2:E:1274:VAL:HG21	2:E:1306:PHE:CE2	2.48	0.49
2:E:1577:LEU:HD12	2:E:1577:LEU:O	2.12	0.49
2:E:1581:SER:OG	2:E:1763:ARG:HD2	2.13	0.49
2:E:2046:ASN:CB	2:E:2047:PRO:HD2	2.43	0.49
1:H:2091:ALA:CB	1:H:2153:THR:HG21	2.43	0.49
1:H:2248:VAL:O	1:H:2273:VAL:HG13	2.12	0.49
2:G:636:THR:OG1	2:G:637:THR:N	2.46	0.49
2:G:1426:ARG:CD	2:G:1499:THR:HG21	2.43	0.49
2:G:2064:ALA:O	2:G:2067:ALA:HB3	2.13	0.49
2:A:775:VAL:HG22	2:A:776:HIS:H	1.77	0.48
2:A:1075:TYR:O	2:A:1077:PRO:HD3	2.12	0.48
2:A:1750:GLY:C	2:A:1751:ARG:HG3	2.38	0.48
2:A:2043:PRO:O	2:A:2046:ASN:HB3	2.13	0.48
2:A:2128:TRP:CZ3	2:A:2174:SER:HB3	2.48	0.48
1:D:2301:TRP:CZ3	2:C:1124:LEU:HD23	2.48	0.48
2:C:1206:ASP:HB2	2:C:1208:PRO:HD2	1.95	0.48
2:C:1471:LEU:HD13	2:C:1496:ASN:HB2	1.93	0.48
2:C:1486:VAL:HG13	2:C:1876:ASN:OD1	2.13	0.48
2:C:1579:ILE:CD1	2:C:1763:ARG:HH11	2.25	0.48
2:C:1766:TYR:O	2:C:1770:LEU:HD13	2.13	0.48
2:C:1860:GLU:OE2	2:C:1862:THR:OG1	2.29	0.48
1:F:2247:LEU:HB3	1:F:2273:VAL:HG11	1.95	0.48
2:E:883:VAL:HG12	2:E:884:TYR:N	2.29	0.48
2:E:1148:CYS:SG	2:E:1156:VAL:HG12	2.53	0.48
2:G:523:PHE:O	2:G:526:THR:OG1	2.31	0.48
2:G:708:ASP:OD1	2:G:981:ARG:HG3	2.11	0.48
2:G:777:SER:HB3	2:G:780:GLU:HB2	1.95	0.48
2:A:822:THR:HG22	2:A:823:ASP:O	2.13	0.48
2:A:881:THR:HG22	2:A:893:GLU:HG3	1.93	0.48
2:A:1365:LYS:HG3	2:A:1366:ALA:N	2.27	0.48
2:A:1495:LYS:O	2:A:1499:THR:HG23	2.14	0.48
2:A:1626:ARG:O	2:A:1630:THR:HG23	2.13	0.48
2:C:1854:ILE:HB	2:C:1863:VAL:HG13	1.95	0.48
2:C:1854:ILE:CG1	2:C:1866:LEU:HD13	2.41	0.48
2:C:2131:VAL:O	2:C:2143:ILE:HA	2.13	0.48
1:F:2079:MET:HE1	1:F:2151:ILE:HD11	1.95	0.48
1:F:2227:THR:HG22	1:F:2229:THR:HG22	1.95	0.48
2:E:684:ILE:HG13	2:E:972:TYR:HD2	1.77	0.48
2:E:1058:MET:HG3	2:E:1062:GLU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1305:GLU:OE1	2:E:1727:ARG:NH1	2.42	0.48
1:H:2217:ASP:HB3	1:H:2218:PRO:CD	2.43	0.48
1:H:2284:GLU:HG2	2:G:1174:THR:CG2	2.43	0.48
2:G:521:ILE:HB	2:G:522:PRO:HD3	1.93	0.48
2:G:620:ASP:O	2:G:624:THR:HG23	2.13	0.48
2:G:725:ASP:OD1	2:G:727:SER:OG	2.18	0.48
2:G:1127:MET:O	2:G:1131:VAL:HG23	2.13	0.48
2:G:1522:VAL:O	2:G:1526:MET:HG2	2.13	0.48
2:G:1657:GLN:HG2	2:G:1680:ASP:OD2	2.13	0.48
2:G:1875:TYR:CZ	2:G:1976:LEU:HD21	2.48	0.48
2:G:2048:ASN:ND2	2:G:2051:SER:HA	2.28	0.48
1:B:2171:ALA:CB	1:B:2212:GLY:HA3	2.43	0.48
2:A:786:LYS:HE3	2:A:824:LEU:HD23	1.95	0.48
2:A:1843:THR:O	2:A:1847:GLN:HG3	2.13	0.48
2:A:2046:ASN:N	2:A:2047:PRO:CD	2.77	0.48
2:C:1598:THR:O	2:C:1602:ILE:HG13	2.13	0.48
2:C:1649:ILE:N	2:C:1649:ILE:HD12	2.28	0.48
2:C:1854:ILE:HG22	2:C:1863:VAL:HG22	1.94	0.48
2:C:1991:ALA:HB1	2:C:2141:LEU:HD11	1.94	0.48
1:F:2253:LYS:HZ2	1:F:2259:MET:HE1	1.77	0.48
2:E:508:GLN:O	2:E:510:ILE:HG13	2.13	0.48
2:E:664:GLU:HG3	2:E:666:HIS:CE1	2.48	0.48
2:E:889:GLY:HA3	2:E:1075:TYR:O	2.12	0.48
2:E:989:GLY:C	2:E:991:GLU:H	2.21	0.48
1:H:2170:HIS:HE2	1:H:2185:THR:HG23	1.78	0.48
1:H:2184:ASN:O	1:H:2184:ASN:ND2	2.47	0.48
2:G:727:SER:C	2:G:729:ARG:H	2.21	0.48
2:G:737:PHE:CE2	2:G:933:LEU:HD12	2.38	0.48
2:G:848:GLU:OE2	2:G:869:VAL:HG11	2.14	0.48
2:G:1314:MET:HE2	2:G:1343:LEU:CD1	2.43	0.48
2:G:1354:LEU:O	2:G:1356:LEU:HG	2.13	0.48
2:G:1429:TYR:HA	2:G:1504:ILE:HG23	1.95	0.48
2:G:1503:PHE:CB	2:G:1526:MET:HE2	2.43	0.48
2:G:1566:PHE:HB3	2:G:1570:VAL:HG21	1.95	0.48
2:G:1670:GLY:O	2:G:1696:LEU:HD12	2.13	0.48
2:G:1673:HIS:CE1	2:G:1676:LEU:HD13	2.49	0.48
2:G:1936:VAL:HG13	2:G:1939:SER:HB3	1.94	0.48
2:G:1999:GLN:HE22	2:G:2173:MET:HB3	1.78	0.48
2:G:2171:PHE:CD1	2:G:2173:MET:HE2	2.48	0.48
2:A:613:LYS:O	2:A:631:THR:HB	2.14	0.48
2:A:802:LEU:O	2:A:803:LYS:HE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1573:VAL:CG1	2:A:1746:PRO:HB3	2.43	0.48
2:A:2054:LYS:C	2:A:2054:LYS:HD3	2.39	0.48
2:A:2148:VAL:O	2:A:2152:LEU:HG	2.13	0.48
1:D:2146:GLU:HG3	1:D:2148:LEU:CD1	2.44	0.48
2:C:1048:ASP:O	2:C:1052:LYS:HG3	2.14	0.48
2:C:1527:HIS:O	2:C:1531:THR:HG23	2.12	0.48
2:C:1820:PRO:HB3	2:C:1825:LEU:HD23	1.94	0.48
2:C:1997:MET:HE1	2:C:2000:MET:CE	2.43	0.48
2:C:2029:TYR:CE2	2:C:2056:LEU:HD22	2.48	0.48
2:C:2042:ASN:HD21	2:C:2045:GLU:HG3	1.77	0.48
2:E:659:LEU:HA	2:E:695:ARG:O	2.13	0.48
2:E:733:LEU:HD23	2:E:915:GLY:O	2.13	0.48
2:E:804:HIS:ND1	2:E:807:GLY:HA2	2.28	0.48
2:E:1359:LEU:H	2:E:1384:THR:HG21	1.79	0.48
2:E:1622:ARG:HH22	2:E:1658:GLU:CD	2.21	0.48
2:E:1997:MET:O	2:E:2001:VAL:HG23	2.13	0.48
2:G:469:ASN:HD21	2:G:895:SER:CB	2.25	0.48
2:G:775:VAL:HG21	2:G:780:GLU:HB3	1.96	0.48
2:G:836:HIS:CE1	2:G:839:MET:HG2	2.49	0.48
2:G:851:PHE:HA	2:G:856:ILE:CG2	2.37	0.48
2:G:1656:VAL:HA	2:G:1680:ASP:OD1	2.12	0.48
2:G:1743:ALA:C	2:G:1744:LEU:HD12	2.38	0.48
1:B:2120:MET:O	1:B:2249:PRO:HD3	2.13	0.48
2:A:1120:LYS:O	2:A:1121:LEU:HD23	2.13	0.48
2:A:1423:ASP:N	2:A:1423:ASP:OD1	2.46	0.48
2:A:1577:LEU:HA	2:A:1754:GLY:O	2.14	0.48
2:A:1986:GLU:O	2:A:1988:HIS:N	2.44	0.48
1:D:2149:GLY:HA3	1:D:2186:LEU:O	2.14	0.48
2:C:737:PHE:CZ	2:C:933:LEU:HD22	2.48	0.48
2:C:1063:LEU:HD23	2:C:1163:MET:CE	2.43	0.48
2:C:1431:ALA:O	2:C:1481:PRO:HD3	2.13	0.48
2:C:1460:LEU:HD23	2:C:1483:GLN:HG3	1.96	0.48
2:C:1715:VAL:HG22	2:C:1739:MET:HE3	1.95	0.48
2:C:1874:TYR:HD2	2:C:1875:TYR:CE1	2.31	0.48
2:C:1921:LEU:HD21	2:C:1946:VAL:CG2	2.33	0.48
2:C:2071:ASN:OD1	2:C:2072:ASN:N	2.46	0.48
2:C:2168:LEU:HA	2:C:2185:SER:OG	2.14	0.48
2:E:926:ILE:N	2:E:927:PRO:CD	2.76	0.48
2:E:1042:ILE:HD12	2:E:1140:ILE:HD13	1.95	0.48
2:G:789:ARG:HD3	2:G:827:LEU:HD12	1.94	0.48
2:G:814:GLU:HA	2:G:817:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2162:MET:HE2	1:B:2167:VAL:HA	1.95	0.48
2:A:516:PRO:HD2	2:A:519:ALA:HB3	1.96	0.48
2:A:789:ARG:NH1	2:A:790:ASP:OD1	2.46	0.48
2:A:1293:ASP:OD1	2:A:1293:ASP:N	2.43	0.48
2:A:1856:MET:CB	2:A:1863:VAL:HG12	2.43	0.48
1:D:2085:LYS:O	1:D:2089:THR:HG23	2.14	0.48
1:D:2162:MET:HG2	1:D:2167:VAL:HG23	1.94	0.48
1:D:2164:PRO:HG3	1:D:2226:PHE:CD1	2.49	0.48
2:E:620:ASP:O	2:E:623:LEU:HG	2.14	0.48
1:H:2181:LYS:O	1:H:2183:GLN:N	2.44	0.48
2:G:976:PHE:CE1	2:G:1002:ARG:HD3	2.48	0.48
2:G:1885:PHE:HD1	2:G:1901:ILE:HG22	1.78	0.48
2:A:521:ILE:N	2:A:522:PRO:CD	2.77	0.48
2:A:585:LYS:O	2:A:657:VAL:HA	2.14	0.48
2:A:952:ASN:O	2:A:956:VAL:HG23	2.13	0.48
2:A:1084:LEU:C	2:A:1084:LEU:HD12	2.38	0.48
2:A:1233:VAL:CG1	2:A:1253:ILE:HG23	2.43	0.48
2:A:1399:VAL:CG1	2:A:1542:LEU:HD22	2.44	0.48
2:A:1780:LEU:O	2:A:1784:LEU:HG	2.14	0.48
2:A:1882:MET:O	2:A:1886:LEU:HG	2.14	0.48
2:C:952:ASN:O	2:C:956:VAL:HG23	2.13	0.48
2:C:1067:PHE:CZ	2:C:1112:LEU:HD22	2.49	0.48
2:C:1816:LEU:HD21	2:C:1836:TYR:CD2	2.49	0.48
2:C:2127:ASN:N	2:C:2175:ASP:OD2	2.46	0.48
2:E:666:HIS:HA	2:E:939:ILE:HD13	1.95	0.48
2:G:1517:TYR:HB3	2:G:1779:HIS:HB2	1.96	0.48
1:B:2068:VAL:CG1	1:B:2235:GLN:HB2	2.41	0.48
2:A:1059:ASN:ND2	2:A:1061:VAL:HG12	2.29	0.48
2:A:1415:LEU:HD23	2:A:1415:LEU:O	2.14	0.48
2:A:1491:TRP:HB3	2:A:1529:ILE:HD13	1.95	0.48
2:A:1609:GLN:HB2	2:A:1711:HIS:HB3	1.95	0.48
1:D:2103:GLY:O	1:D:2146:GLU:HG2	2.14	0.48
1:D:2119:VAL:HG22	1:D:2247:LEU:HB2	1.96	0.48
2:C:469:ASN:HD21	2:C:895:SER:HA	1.78	0.48
2:C:798:ILE:HG22	2:C:799:ASN:N	2.29	0.48
2:C:1185:PRO:HG2	2:C:1188:ILE:HG12	1.96	0.48
2:C:1210:MET:O	2:C:1214:LEU:HG	2.14	0.48
2:C:1994:ALA:HA	2:C:1997:MET:HB2	1.96	0.48
1:F:2276:ASP:OD1	1:F:2277:THR:N	2.45	0.48
2:E:501:LYS:O	2:E:501:LYS:HG3	2.13	0.48
2:E:588:TYR:HD2	2:E:661:ILE:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1054:ILE:HG12	2:E:1058:MET:HE1	1.96	0.48
2:E:1342:ILE:N	2:E:1342:ILE:HD12	2.28	0.48
2:E:1445:GLN:NE2	2:E:1457:ILE:HB	2.28	0.48
2:E:1872:ALA:HB2	2:E:1882:MET:HG3	1.96	0.48
2:E:2059:THR:HG22	2:E:2060:GLN:N	2.29	0.48
2:G:547:MET:HG2	2:G:697:ILE:HD12	1.96	0.48
2:G:705:ASN:O	2:G:709:VAL:HG23	2.14	0.48
2:G:1590:LEU:CD1	2:G:1594:MET:HE3	2.43	0.48
2:G:2061:ALA:O	2:G:2065:GLN:HG3	2.14	0.48
2:G:2081:PHE:HD2	2:G:2097:LEU:HD11	1.79	0.48
2:A:1171:MET:HE3	2:A:1328:MET:CB	2.44	0.48
1:D:2092:ASP:CG	1:D:2095:VAL:HG12	2.39	0.48
1:D:2152:HIS:NE2	1:D:2166:ASP:OD1	2.47	0.48
1:D:2245:PHE:HB3	2:C:1316:PRO:HG2	1.96	0.48
2:C:751:THR:O	2:C:755:ILE:HG13	2.12	0.48
2:C:1379:PHE:CE1	2:C:1384:THR:HG22	2.48	0.48
2:C:1927:HIS:HB3	2:C:1955:MET:HE1	1.96	0.48
2:C:1976:LEU:O	2:C:1980:VAL:HG23	2.13	0.48
2:E:918:ILE:HD12	2:E:918:ILE:O	2.14	0.48
2:G:775:VAL:HG22	2:G:776:HIS:N	2.24	0.48
2:G:2014:GLN:OE1	2:G:2014:GLN:N	2.46	0.48
2:G:2018:PHE:CE2	2:G:2023:VAL:HG12	2.49	0.48
1:B:2164:PRO:HG3	1:B:2226:PHE:CZ	2.49	0.48
2:A:507:ASP:OD1	2:A:508:GLN:N	2.47	0.48
2:A:1407:LYS:HB3	2:A:1407:LYS:HZ3	1.79	0.48
2:A:1788:PHE:O	2:A:1792:ILE:HG12	2.14	0.48
2:C:835:HIS:CE1	2:C:865:LEU:HD13	2.48	0.48
2:C:1143:ALA:O	2:C:1147:ILE:HG13	2.14	0.48
2:C:1678:GLN:OE1	2:C:1678:GLN:N	2.38	0.48
2:C:1854:ILE:HD13	2:C:1863:VAL:CG1	2.44	0.48
1:F:2084:LEU:O	1:F:2088:ILE:HG13	2.13	0.48
1:F:2120:MET:HB2	1:F:2248:VAL:HG12	1.96	0.48
2:E:455:LYS:HG2	2:E:1000:GLN:NE2	2.28	0.48
2:E:791:LYS:HA	2:E:794:GLU:HB3	1.95	0.48
2:E:873:ALA:O	2:E:907:GLY:N	2.26	0.48
2:E:1324:SER:OG	2:E:1327:TRP:HB2	2.13	0.48
2:E:1685:LYS:HG3	2:E:1708:PHE:HE1	1.79	0.48
2:E:1892:LYS:HA	2:E:1892:LYS:HD3	1.72	0.48
2:E:1992:LEU:HD23	2:E:1992:LEU:C	2.39	0.48
2:G:1293:ASP:N	2:G:1293:ASP:OD1	2.45	0.48
2:G:1551:ASP:O	2:G:1555:TRP:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1995:MET:HE2	2:G:2173:MET:CB	2.38	0.48
1:B:2044:THR:OG1	1:B:2045:GLU:N	2.45	0.47
2:A:541:PHE:O	2:A:542:LEU:HD23	2.14	0.47
1:D:2120:MET:HE2	1:D:2246:PHE:CE1	2.43	0.47
2:C:721:LEU:HD12	2:C:722:PHE:N	2.28	0.47
2:C:1291:ARG:NH1	2:C:1293:ASP:OD2	2.47	0.47
2:C:2173:MET:CG	2:C:2174:SER:H	2.26	0.47
2:E:754:ASP:O	2:E:758:GLN:HG2	2.14	0.47
2:E:846:ASP:O	2:E:850:LEU:HG	2.13	0.47
2:E:941:SER:HB2	2:E:974:TYR:CD2	2.49	0.47
2:E:990:ALA:O	2:E:993:GLU:HG2	2.14	0.47
2:E:1185:PRO:HG2	2:E:1188:ILE:HD13	1.95	0.47
2:E:1266:VAL:HG12	2:E:1267:THR:HG23	1.96	0.47
2:E:1414:ALA:HB1	2:E:1502:LEU:HD11	1.96	0.47
1:H:2069:ASP:OD1	1:H:2069:ASP:N	2.45	0.47
1:H:2216:LYS:HD3	1:H:2216:LYS:C	2.39	0.47
2:G:628:ILE:HD12	2:G:628:ILE:C	2.39	0.47
2:G:1060:ASP:OD1	2:G:1061:VAL:N	2.47	0.47
2:G:1068:ALA:HB3	2:G:1105:THR:HG23	1.96	0.47
2:G:2096:TYR:HA	2:G:2157:GLU:HB2	1.96	0.47
2:G:2170:LEU:HD23	2:G:2170:LEU:C	2.39	0.47
2:A:1591:MET:HG2	2:A:1620:GLN:NE2	2.30	0.47
2:A:2063:LEU:O	2:A:2063:LEU:HD23	2.13	0.47
2:C:481:GLU:HG2	2:C:482:GLY:N	2.30	0.47
2:C:1959:ILE:HD12	2:C:1959:ILE:N	2.25	0.47
1:F:2086:LYS:O	1:F:2090:ILE:HD13	2.14	0.47
2:E:744:LYS:O	2:E:748:GLN:HB2	2.14	0.47
2:E:1145:PHE:CE1	2:E:1161:LEU:HB2	2.49	0.47
2:E:1663:GLU:O	2:E:1666:SER:OG	2.25	0.47
1:H:2079:MET:HG3	1:H:2080:PRO:HD2	1.95	0.47
1:H:2277:THR:HG23	1:H:2278:PRO:HD2	1.96	0.47
2:G:572:ASN:HD22	2:G:584:PHE:HB3	1.79	0.47
2:G:1266:VAL:HG23	2:G:1267:THR:HG23	1.95	0.47
2:G:1578:HIS:HB2	2:G:1755:VAL:HG22	1.95	0.47
2:G:1880:MET:O	2:G:1883:GLU:HB3	2.14	0.47
2:A:2165:LYS:HD2	2:A:2166:HIS:N	2.29	0.47
1:D:2298:GLU:HG3	2:C:1170:ARG:HH22	1.80	0.47
1:D:2301:TRP:CD1	1:D:2301:TRP:H	2.31	0.47
2:C:521:ILE:HB	2:C:522:PRO:CD	2.44	0.47
2:C:1137:ALA:O	2:C:1141:LEU:HD23	2.13	0.47
2:C:1185:PRO:HD2	2:C:1188:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1204:ASP:OD2	2:C:1232:ARG:NH1	2.26	0.47
1:F:2159:LEU:HD13	1:F:2159:LEU:N	2.29	0.47
1:F:2284:GLU:HG2	2:E:1174:THR:CG2	2.44	0.47
1:F:2284:GLU:HG2	2:E:1174:THR:HG23	1.95	0.47
2:E:640:LYS:O	2:E:643:VAL:HG12	2.13	0.47
2:E:1573:VAL:CG1	2:E:1746:PRO:HG3	2.45	0.47
2:G:1272:ILE:O	2:G:1285:HIS:HA	2.14	0.47
2:G:1464:THR:HG21	2:G:1486:VAL:HG22	1.96	0.47
2:G:1895:LEU:CG	2:G:1896:ARG:H	2.26	0.47
2:G:2084:ASP:HB2	2:G:2155:LYS:HZ3	1.79	0.47
2:G:2115:VAL:CB	2:G:2125:SER:HB3	2.38	0.47
1:B:2217:ASP:N	1:B:2218:PRO:CD	2.78	0.47
2:A:500:LYS:HD2	2:A:501:LYS:H	1.78	0.47
2:A:941:SER:HB3	2:A:974:TYR:HD2	1.78	0.47
2:A:1275:GLU:HB2	2:A:1319:PHE:HB2	1.96	0.47
2:A:2034:ILE:O	2:A:2037:PHE:HB3	2.14	0.47
2:C:660:ILE:HD11	2:C:696:ILE:CG1	2.43	0.47
2:C:696:ILE:HD12	2:C:696:ILE:N	2.29	0.47
2:C:895:SER:HB2	2:C:897:GLN:NE2	2.29	0.47
2:C:1063:LEU:HB3	2:C:1163:MET:HE1	1.97	0.47
2:C:1276:ASP:OD1	2:C:1279:GLY:N	2.45	0.47
2:C:1895:LEU:HD11	2:C:1997:MET:CE	2.45	0.47
1:F:2079:MET:HE1	1:F:2151:ILE:CD1	2.44	0.47
2:G:581:LEU:HB3	2:G:632:GLN:NE2	2.29	0.47
2:G:903:LEU:HD22	2:G:933:LEU:CD1	2.44	0.47
2:G:1482:LEU:HD11	2:G:1876:ASN:OD1	2.14	0.47
2:G:1799:SER:H	2:G:1863:VAL:HG11	1.78	0.47
2:G:2034:ILE:O	2:G:2038:MET:N	2.47	0.47
1:B:2082:ASN:ND2	1:B:2083:ILE:HG23	2.29	0.47
1:B:2220:VAL:HG22	1:B:2221:ASP:N	2.24	0.47
2:A:1093:VAL:HB	2:A:1113:GLN:OE1	2.15	0.47
2:A:1175:MET:HE2	2:A:1179:ARG:NE	2.28	0.47
2:A:1501:GLU:O	2:A:1538:ARG:N	2.35	0.47
2:A:1508:LEU:HD11	2:A:1555:TRP:HZ3	1.79	0.47
2:A:1895:LEU:HD23	2:A:1895:LEU:C	2.39	0.47
1:D:2209:TYR:O	1:D:2213:VAL:HG23	2.14	0.47
2:C:516:PRO:O	2:C:520:ARG:HG3	2.14	0.47
2:C:715:VAL:HG13	2:C:720:GLY:HA3	1.96	0.47
2:C:1491:TRP:CZ3	2:C:1525:ARG:HD2	2.50	0.47
2:C:1597:PRO:HB2	2:C:1757:MET:HE1	1.96	0.47
2:C:1792:ILE:HD13	2:C:1797:ILE:CB	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2134:GLU:OE1	2:C:2168:LEU:HD22	2.14	0.47
1:F:2211:TRP:CG	1:F:2230:MET:HE1	2.49	0.47
2:E:581:LEU:HD23	2:E:581:LEU:N	2.27	0.47
2:E:590:ALA:HB1	2:E:595:LEU:HD23	1.96	0.47
2:E:671:ASP:O	2:E:674:PRO:HD2	2.14	0.47
2:G:586:ILE:HB	2:G:633:VAL:CA	2.40	0.47
2:G:1552:ILE:O	2:G:1555:TRP:HB3	2.15	0.47
2:G:1966:GLU:O	2:G:1969:LEU:HB2	2.15	0.47
1:B:2285:GLN:O	1:B:2288:PRO:HD3	2.13	0.47
2:A:565:MET:O	2:A:569:ILE:HG13	2.15	0.47
2:A:623:LEU:CD1	2:A:1326:ARG:HD2	2.45	0.47
2:A:923:GLN:O	2:A:926:ILE:HG12	2.15	0.47
2:A:1171:MET:HE3	2:A:1328:MET:HB3	1.96	0.47
2:A:1481:PRO:O	2:A:1522:VAL:HG11	2.15	0.47
2:A:1594:MET:O	2:A:1598:THR:HG23	2.14	0.47
2:A:2052:LEU:C	2:A:2052:LEU:HD23	2.40	0.47
2:C:1213:LEU:HD23	2:C:1213:LEU:C	2.39	0.47
2:C:1398:LEU:HD23	2:C:1398:LEU:C	2.38	0.47
2:C:1613:VAL:HG22	2:C:1714:VAL:HG22	1.96	0.47
2:C:1768:LYS:O	2:C:1772:GLU:HG2	2.15	0.47
2:C:1777:GLU:OE2	2:C:1815:ARG:NH2	2.48	0.47
2:E:725:ASP:OD1	2:E:727:SER:OG	2.21	0.47
2:E:2012:LEU:HD21	2:E:2031:ILE:HG21	1.97	0.47
1:H:2077:TYR:OH	1:H:2184:ASN:HB2	2.13	0.47
2:G:1456:GLU:O	2:G:1456:GLU:HG2	2.14	0.47
2:G:1586:HIS:HB3	2:G:1589:SER:HB2	1.96	0.47
2:G:1676:LEU:HG	2:G:1680:ASP:HB2	1.95	0.47
2:G:1854:ILE:CD1	2:G:1865:PRO:HA	2.42	0.47
2:G:1897:THR:O	2:G:1900:GLU:HG2	2.14	0.47
2:A:532:ILE:HG23	2:A:724:PHE:CD2	2.50	0.47
2:A:806:ALA:HB3	2:A:808:THR:HG22	1.95	0.47
2:A:926:ILE:N	2:A:927:PRO:CD	2.77	0.47
2:A:936:GLN:O	2:A:938:PRO:HD3	2.14	0.47
2:A:1042:ILE:HD12	2:A:1143:ALA:CB	2.45	0.47
2:A:1379:PHE:HB3	2:A:1383:GLN:HB2	1.97	0.47
2:A:1520:GLU:HG3	2:A:1555:TRP:CZ2	2.49	0.47
2:A:1715:VAL:HG23	2:A:1740:PHE:CE1	2.49	0.47
1:D:2276:ASP:HA	2:C:1319:PHE:CE1	2.50	0.47
2:C:539:THR:HG21	2:C:719:LYS:O	2.15	0.47
2:C:797:THR:O	2:C:801:ILE:HG22	2.15	0.47
2:C:797:THR:HG23	2:C:801:ILE:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1222:THR:O	2:C:1226:LEU:HD13	2.15	0.47
2:C:1429:TYR:HE1	2:C:1506:ASP:HB2	1.79	0.47
2:C:1491:TRP:HZ3	2:C:1525:ARG:HD2	1.79	0.47
2:C:2031:ILE:CD1	2:C:2040:GLN:HG2	2.42	0.47
2:E:472:MET:SD	2:E:928:TYR:HA	2.54	0.47
2:E:576:LYS:HG2	2:E:577:GLY:H	1.79	0.47
2:E:775:VAL:HG22	2:E:776:HIS:N	2.29	0.47
2:E:834:ILE:HG23	2:E:839:MET:HE1	1.96	0.47
2:E:1031:THR:HG22	2:E:1032:GLU:N	2.30	0.47
2:E:1331:GLU:HG2	2:E:1332:THR:N	2.29	0.47
2:E:1530:ARG:CB	2:E:1537:MET:HE2	2.38	0.47
2:E:1539:ILE:HD12	2:E:1539:ILE:N	2.29	0.47
2:E:1574:PRO:HB2	2:E:1751:ARG:HG2	1.97	0.47
2:E:1621:THR:HG21	2:E:1699:SER:HB3	1.96	0.47
2:E:2029:TYR:OH	2:E:2053:VAL:HG21	2.15	0.47
1:H:2154:MET:HE1	1:H:2159:LEU:HG	1.97	0.47
2:G:570:GLY:HA2	2:G:573:ARG:HH22	1.80	0.47
2:G:614:VAL:HG22	2:G:633:VAL:HG13	1.96	0.47
2:G:999:GLU:O	2:G:1003:VAL:HG23	2.15	0.47
2:G:1085:GLU:O	2:G:1089:LEU:HD13	2.15	0.47
2:G:1165:LYS:HB2	2:G:1328:MET:CE	2.45	0.47
2:G:1430:ILE:HD12	2:G:1503:PHE:HE1	1.80	0.47
2:G:1468:LEU:HD12	2:G:1469:LYS:HG3	1.96	0.47
2:G:1686:HIS:O	2:G:1690:ASN:HB2	2.15	0.47
2:G:1885:PHE:CD1	2:G:1901:ILE:HG22	2.50	0.47
2:G:1943:LYS:O	2:G:1947:LEU:HG	2.15	0.47
2:G:2026:ALA:HB1	2:G:2031:ILE:CD1	2.41	0.47
2:G:2083:VAL:HG12	2:G:2084:ASP:N	2.29	0.47
1:B:2159:LEU:HA	1:B:2160:PRO:HD3	1.79	0.47
2:A:1289:ILE:HD12	2:A:1289:ILE:O	2.15	0.47
2:A:1460:LEU:HD11	2:A:1467:ASP:HB3	1.95	0.47
2:A:1535:LEU:HB2	2:A:1536:PRO:HD2	1.97	0.47
2:C:1082:GLU:OE2	2:C:1107:LYS:NZ	2.33	0.47
2:C:1206:ASP:CG	2:C:1209:ARG:HG2	2.40	0.47
2:C:2021:GLU:OE1	2:C:2021:GLU:N	2.44	0.47
2:C:2106:GLU:O	2:C:2107:GLU:HB2	2.15	0.47
2:C:2183:ASP:N	2:C:2184:PRO:CD	2.76	0.47
1:F:2298:GLU:HB3	2:E:1118:ARG:HD2	1.97	0.47
2:E:1619:LYS:HG2	2:E:1960:ASP:OD2	2.14	0.47
2:E:2131:VAL:HG22	2:E:2143:ILE:CD1	2.44	0.47
2:G:455:LYS:HG2	2:G:1000:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:650:ASP:O	2:G:654:THR:HG23	2.15	0.47
2:G:832:PHE:O	2:G:856:ILE:HD11	2.14	0.47
2:G:1463:GLU:HG3	2:G:1466:THR:OG1	2.15	0.47
2:G:1798:GLU:HB3	2:G:1863:VAL:HG21	1.97	0.47
2:A:1213:LEU:HD23	2:A:1213:LEU:C	2.40	0.47
2:A:1392:ASN:OD1	2:A:1393:THR:HG23	2.15	0.47
2:A:1792:ILE:O	2:A:1865:PRO:HG3	2.14	0.47
2:A:1928:VAL:HG23	2:A:1929:PRO:HD2	1.97	0.47
2:A:2072:ASN:HB3	2:A:2111:PHE:HZ	1.80	0.47
2:C:1971:LYS:NZ	2:C:2001:VAL:HG11	2.29	0.47
2:C:2131:VAL:CG1	2:C:2171:PHE:H	2.28	0.47
1:F:2289:ILE:HG23	1:F:2290:HIS:HD2	1.80	0.47
2:E:521:ILE:N	2:E:522:PRO:CD	2.78	0.47
2:E:585:LYS:O	2:E:657:VAL:HA	2.15	0.47
2:E:796:ASP:O	2:E:797:THR:OG1	2.31	0.47
2:E:2012:LEU:HD21	2:E:2031:ILE:CG2	2.45	0.47
2:E:2189:ASN:O	2:E:2190:VAL:HG13	2.15	0.47
2:G:1236:GLN:HA	2:G:1334:MET:CE	2.30	0.47
2:G:1392:ASN:CA	2:G:1417:ARG:HB3	2.32	0.47
2:G:1590:LEU:HG	2:G:1594:MET:HE3	1.96	0.47
2:G:1914:ARG:O	2:G:1917:GLU:HG2	2.14	0.47
2:G:2025:VAL:HA	2:G:2028:LYS:CB	2.45	0.47
2:A:878:ILE:HB	2:A:919:ILE:CD1	2.45	0.47
2:A:892:VAL:HG22	2:A:893:GLU:N	2.30	0.47
2:A:1291:ARG:HG3	2:A:1294:LEU:HB2	1.97	0.47
1:D:2083:ILE:HD12	1:D:2118:ILE:CG1	2.39	0.47
1:D:2309:ALA:HB1	2:C:618:THR:CA	2.44	0.47
2:C:521:ILE:HD12	2:C:521:ILE:N	2.27	0.47
1:F:2309:ALA:HB1	2:E:618:THR:OG1	2.15	0.47
2:E:562:MET:O	2:E:566:LEU:HG	2.15	0.47
2:E:665:ILE:C	2:E:667:LEU:H	2.24	0.47
2:E:1487:LEU:HD23	2:E:1487:LEU:C	2.40	0.47
2:E:1887:LEU:HD23	2:E:1888:SER:H	1.79	0.47
2:E:1897:THR:O	2:E:1901:ILE:HG13	2.14	0.47
2:E:1907:GLU:OE1	2:E:1907:GLU:N	2.48	0.47
2:E:1985:SER:OG	2:E:1986:GLU:OE2	2.30	0.47
2:G:471:LEU:HD21	2:G:473:THR:CG2	2.45	0.47
2:G:521:ILE:N	2:G:522:PRO:HD2	2.29	0.47
2:G:992:TYR:OH	2:G:1004:ASP:OD2	2.32	0.47
2:G:1027:LYS:HB2	2:G:1027:LYS:NZ	2.29	0.47
2:G:1056:PRO:HG3	2:G:1153:TRP:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1825:LEU:C	2:G:1825:LEU:HD12	2.40	0.47
1:B:2193:THR:OG1	1:B:2196:SER:O	2.19	0.46
2:A:474:ASN:ND2	2:A:931:SER:OG	2.38	0.46
2:A:1025:THR:OG1	2:A:1027:LYS:HD3	2.15	0.46
2:A:1390:LEU:CD2	2:A:1410:CYS:HB3	2.45	0.46
2:A:2148:VAL:HA	2:A:2152:LEU:CD1	2.44	0.46
1:D:2096:GLN:HG2	1:D:2153:THR:O	2.15	0.46
2:C:738:ILE:HD11	2:C:759:LYS:HE3	1.95	0.46
2:C:1688:TYR:OH	2:C:1710:ALA:HB2	2.15	0.46
2:E:967:VAL:HG12	2:E:1002:ARG:HH21	1.79	0.46
2:E:983:PRO:O	2:E:988:VAL:HB	2.15	0.46
2:E:1477:ILE:N	2:E:1477:ILE:HD12	2.30	0.46
2:E:1641:PHE:HD2	2:E:1669:VAL:HG22	1.80	0.46
2:G:865:LEU:O	2:G:865:LEU:HD23	2.15	0.46
2:G:954:GLU:HB3	2:G:960:VAL:HG11	1.97	0.46
1:B:2164:PRO:HG3	1:B:2226:PHE:CE1	2.51	0.46
2:A:510:ILE:HD12	2:A:510:ILE:N	2.30	0.46
2:A:532:ILE:HG13	2:A:555:SER:OG	2.15	0.46
2:A:953:ALA:O	2:A:957:LEU:HD13	2.15	0.46
2:A:999:GLU:O	2:A:1003:VAL:HG23	2.15	0.46
2:A:1390:LEU:CD1	2:A:1397:VAL:HG11	2.45	0.46
2:A:1586:HIS:HB3	2:A:1589:SER:CB	2.45	0.46
1:D:2080:PRO:HB2	1:D:2082:ASN:OD1	2.15	0.46
2:C:651:ILE:HD12	2:C:654:THR:OG1	2.14	0.46
2:C:1312:GLU:N	2:C:1313:PRO:HD2	2.31	0.46
2:C:1615:VAL:CG1	2:C:1616:PRO:HD2	2.45	0.46
2:C:1975:LEU:HD12	2:C:1978:ALA:CB	2.44	0.46
2:C:2129:TRP:HE3	2:C:2130:LEU:HD23	1.79	0.46
2:E:801:ILE:HD12	2:E:801:ILE:N	2.30	0.46
2:E:802:LEU:C	2:E:802:LEU:HD12	2.40	0.46
2:E:1744:LEU:O	2:E:1746:PRO:HD3	2.16	0.46
2:E:1979:ILE:O	2:E:1983:LEU:HB2	2.15	0.46
2:E:1983:LEU:HD23	2:E:2143:ILE:HD13	1.96	0.46
1:H:2083:ILE:HD11	1:H:2244:GLY:CA	2.42	0.46
2:G:1639:ASP:O	2:G:1641:PHE:N	2.48	0.46
2:G:1959:ILE:HD12	2:G:1959:ILE:N	2.24	0.46
2:G:2025:VAL:HG11	2:G:2056:LEU:HD13	1.98	0.46
1:B:2090:ILE:CG2	1:B:2254:TRP:HZ2	2.27	0.46
1:B:2186:LEU:HD22	1:B:2201:ALA:HB1	1.96	0.46
2:A:527:LYS:HG3	2:A:528:THR:H	1.80	0.46
2:A:639:GLU:O	2:A:643:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:804:HIS:CA	2:A:809:ARG:HD2	2.46	0.46
2:A:1398:LEU:C	2:A:1398:LEU:HD23	2.40	0.46
2:A:1969:LEU:HD23	2:A:2121:PRO:HG2	1.97	0.46
2:C:951:LEU:O	2:C:955:ILE:HG13	2.16	0.46
2:C:1353:LEU:HD23	2:C:1353:LEU:C	2.41	0.46
2:C:1511:LEU:HD12	2:C:1511:LEU:C	2.41	0.46
2:C:1613:VAL:HG13	2:C:1714:VAL:HG23	1.97	0.46
2:C:1794:THR:C	2:C:1795:LYS:HD2	2.39	0.46
2:C:1998:SER:O	2:C:2002:VAL:HG23	2.15	0.46
2:E:457:LEU:C	2:E:457:LEU:HD23	2.41	0.46
2:E:478:ARG:CB	2:E:936:GLN:HE22	2.27	0.46
2:E:976:PHE:CE1	2:E:1002:ARG:HD3	2.50	0.46
2:E:1526:MET:O	2:E:1537:MET:HE1	2.15	0.46
2:E:1838:SER:HA	2:E:1841:VAL:HG12	1.98	0.46
1:H:2136:LEU:HD11	1:H:2177:HIS:HB3	1.98	0.46
2:G:539:THR:HG22	2:G:547:MET:CE	2.45	0.46
2:G:809:ARG:HH11	2:G:855:HIS:CD2	2.33	0.46
2:G:1711:HIS:CE1	2:G:1747:SER:HB3	2.50	0.46
2:G:1894:LYS:HE3	2:G:1898:ILE:CG1	2.43	0.46
2:A:548:LEU:HD22	2:A:709:VAL:HG12	1.98	0.46
2:A:596:VAL:HB	2:A:635:VAL:HG12	1.97	0.46
2:A:729:ARG:HG3	2:A:730:PRO:HD2	1.96	0.46
2:A:943:LEU:HD23	2:A:975:LEU:HD23	1.98	0.46
2:A:1048:ASP:OD1	2:A:1052:LYS:HE3	2.15	0.46
2:A:1331:GLU:HG2	2:A:1332:THR:N	2.30	0.46
2:A:1358:PRO:HA	2:A:1384:THR:HG21	1.98	0.46
2:A:1428:VAL:CG2	2:A:1477:ILE:HD11	2.46	0.46
2:A:1530:ARG:HB2	2:A:1537:MET:CE	2.39	0.46
2:A:2155:LYS:HG3	2:A:2155:LYS:O	2.15	0.46
2:A:2169:LYS:HD3	2:A:2185:SER:HB3	1.98	0.46
1:D:2049:ARG:O	1:D:2053:THR:HG23	2.15	0.46
1:D:2296:GLU:N	1:D:2296:GLU:OE1	2.49	0.46
2:C:1358:PRO:CB	2:C:1378:GLN:HG3	2.44	0.46
2:C:1464:THR:HG21	2:C:1874:TYR:HE1	1.79	0.46
2:C:1713:VAL:HG11	2:C:1739:MET:O	2.14	0.46
2:C:2079:LEU:HD23	2:C:2100:HIS:O	2.16	0.46
1:F:2227:THR:HG22	1:F:2229:THR:H	1.81	0.46
2:E:554:GLY:H	3:E:2201:ACT:CH3	2.29	0.46
2:E:575:GLU:O	2:E:576:LYS:HG2	2.16	0.46
2:E:642:ASP:O	2:E:646:ARG:HG3	2.15	0.46
2:E:751:THR:O	2:E:755:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:766:GLN:OE1	2:E:766:GLN:N	2.49	0.46
2:E:1390:LEU:HD23	2:E:1397:VAL:HG21	1.97	0.46
2:E:1977:SER:C	2:E:1979:ILE:H	2.22	0.46
2:E:1982:ILE:H	2:E:1982:ILE:CD1	2.26	0.46
1:H:2164:PRO:O	1:H:2168:THR:HG23	2.16	0.46
2:G:1392:ASN:HA	2:G:1417:ARG:CD	2.37	0.46
2:G:1555:TRP:HE3	2:G:1814:ARG:HD2	1.80	0.46
2:G:1590:LEU:CG	2:G:1594:MET:HE3	2.46	0.46
2:G:1976:LEU:C	2:G:1976:LEU:HD12	2.40	0.46
2:G:2141:LEU:HD13	2:G:2141:LEU:N	2.30	0.46
2:A:625:LYS:HE2	2:A:640:LYS:CE	2.44	0.46
2:A:1672:TYR:OH	2:A:1681:LYS:HD3	2.15	0.46
2:A:1713:VAL:CG2	2:A:1743:ALA:HB2	2.45	0.46
2:A:2011:PRO:O	2:A:2034:ILE:HD11	2.16	0.46
1:D:2146:GLU:O	1:D:2148:LEU:HD13	2.15	0.46
2:C:564:THR:HG21	2:C:697:ILE:CD1	2.45	0.46
2:C:1487:LEU:HD23	2:C:1487:LEU:C	2.41	0.46
2:C:1494:ARG:HB2	2:C:1497:VAL:HG21	1.98	0.46
2:C:2173:MET:HG3	2:C:2174:SER:H	1.79	0.46
2:E:862:THR:OG1	2:E:863:ALA:N	2.49	0.46
2:E:1142:ARG:HG2	2:E:1164:CYS:SG	2.56	0.46
2:E:1972:ILE:HG23	2:E:1973:LEU:N	2.30	0.46
2:E:2183:ASP:OD1	2:E:2183:ASP:N	2.48	0.46
1:H:2136:LEU:CD1	1:H:2179:SER:HB2	2.45	0.46
2:G:967:VAL:HG13	2:G:1002:ARG:HB3	1.98	0.46
2:G:1062:GLU:O	2:G:1066:VAL:HG23	2.14	0.46
2:G:1353:LEU:CD1	2:G:1355:ASP:HB2	2.44	0.46
2:G:1571:ARG:CG	2:G:1572:PRO:HD2	2.45	0.46
2:G:2081:PHE:HB2	2:G:2099:ILE:HG13	1.98	0.46
2:G:2167:ASP:O	2:G:2168:LEU:HD23	2.16	0.46
2:A:539:THR:O	2:A:695:ARG:NH2	2.48	0.46
2:A:767:ASN:O	2:A:769:ASN:N	2.49	0.46
2:A:1107:LYS:O	2:A:1111:LEU:HG	2.16	0.46
2:A:1804:ILE:HG23	2:A:1837:LEU:HD22	1.98	0.46
2:A:1920:ILE:N	2:A:1920:ILE:HD12	2.30	0.46
2:A:2127:ASN:HB2	2:A:2175:ASP:OD2	2.15	0.46
1:D:2159:LEU:C	1:D:2161:TYR:H	2.24	0.46
1:D:2182:ASN:CG	1:D:2183:GLN:H	2.24	0.46
1:D:2279:LEU:HD12	1:D:2279:LEU:N	2.31	0.46
2:C:546:ASN:C	2:C:715:VAL:HG22	2.40	0.46
2:C:564:THR:HG21	2:C:697:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:784:THR:O	2:C:788:ILE:HG13	2.16	0.46
2:C:1487:LEU:HD23	2:C:1488:SER:CB	2.44	0.46
2:E:548:LEU:HD22	2:E:709:VAL:HG12	1.98	0.46
2:E:1418:HIS:O	2:E:1422:LYS:HB2	2.15	0.46
2:E:2037:PHE:O	2:E:2041:MET:HB2	2.15	0.46
1:H:2090:ILE:O	1:H:2281:PHE:HB2	2.15	0.46
2:G:865:LEU:HD11	2:G:871:LEU:HD12	1.98	0.46
2:G:1314:MET:HE2	2:G:1343:LEU:HG	1.98	0.46
2:G:1383:GLN:HA	2:G:1386:THR:OG1	2.16	0.46
2:G:1503:PHE:HD2	2:G:1539:ILE:HG23	1.81	0.46
2:G:1976:LEU:O	2:G:1979:ILE:HG22	2.15	0.46
1:B:2211:TRP:HZ2	1:B:2223:PRO:HB2	1.81	0.46
1:B:2253:LYS:HD2	1:B:2279:LEU:H	1.81	0.46
2:A:789:ARG:HB3	2:A:832:PHE:HE2	1.81	0.46
2:A:828:LEU:C	2:A:830:TYR:H	2.24	0.46
2:A:865:LEU:HD21	2:A:871:LEU:HD12	1.97	0.46
2:A:1577:LEU:HD23	2:A:1577:LEU:H	1.81	0.46
2:A:2020:PRO:HA	2:A:2023:VAL:CG2	2.46	0.46
1:D:2119:VAL:HG11	1:D:2137:PRO:CG	2.44	0.46
2:C:996:VAL:HG13	2:C:997:ALA:N	2.30	0.46
2:C:1246:MET:HB2	2:C:1768:LYS:NZ	2.30	0.46
2:C:1254:THR:CG2	2:C:1301:GLU:HG3	2.46	0.46
2:C:1391:TYR:CD1	2:C:1413:PHE:HB3	2.49	0.46
2:C:1929:PRO:HG3	2:C:2006:TRP:CZ2	2.51	0.46
2:C:2049:TYR:O	2:C:2053:VAL:HG23	2.16	0.46
2:E:761:LEU:HA	2:E:764:VAL:CG1	2.45	0.46
2:E:877:ILE:HA	2:E:918:ILE:HD12	1.98	0.46
2:E:1400:ALA:HA	2:E:1543:SER:O	2.15	0.46
2:E:1786:ASP:O	2:E:1789:VAL:HG12	2.16	0.46
2:E:1884:MET:O	2:E:1887:LEU:HD22	2.16	0.46
2:E:2093:GLU:HB3	2:E:2094:PRO:HD2	1.96	0.46
2:E:2102:GLU:HB3	2:E:2151:GLU:HG2	1.97	0.46
2:E:2162:SER:O	2:E:2190:VAL:HG21	2.16	0.46
2:G:514:GLU:HG2	2:G:515:LEU:HD13	1.97	0.46
2:G:764:VAL:HG12	2:G:769:ASN:O	2.15	0.46
2:G:1428:VAL:HG22	2:G:1477:ILE:CD1	2.45	0.46
2:G:1710:ALA:O	2:G:1743:ALA:HA	2.16	0.46
2:G:1819:ASN:ND2	2:G:1822:TYR:HB2	2.29	0.46
2:G:1989:LEU:H	2:G:1989:LEU:CD2	2.25	0.46
2:G:2097:LEU:H	2:G:2157:GLU:HB2	1.80	0.46
1:B:2096:GLN:O	1:B:2125:GLY:HA3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:533:GLN:HE21	2:A:559:ASN:HB2	1.81	0.46
2:A:621:ARG:HG2	2:A:622:GLN:HE21	1.81	0.46
2:A:866:ALA:O	2:A:905:ARG:NH2	2.48	0.46
2:A:1181:TYR:CD1	2:A:1226:LEU:HD11	2.51	0.46
2:A:1670:GLY:O	2:A:1696:LEU:HA	2.15	0.46
2:A:1879:TYR:CZ	2:A:1880:MET:HG3	2.51	0.46
2:C:605:LYS:HE2	2:C:605:LYS:CA	2.44	0.46
2:C:622:GLN:HG2	2:C:627:GLN:CB	2.35	0.46
2:C:834:ILE:O	2:C:839:MET:HE3	2.16	0.46
2:C:1047:MET:HE1	2:C:1147:ILE:HD11	1.98	0.46
2:C:1180:GLN:HE22	2:C:1328:MET:H	1.63	0.46
2:C:1944:ALA:O	2:C:1948:VAL:HG23	2.15	0.46
2:E:549:VAL:CG2	2:E:699:LEU:HD22	2.46	0.46
2:E:568:GLU:HG3	2:E:584:PHE:HD2	1.80	0.46
2:E:688:GLU:OE1	2:E:972:TYR:OH	2.32	0.46
2:E:804:HIS:O	2:E:804:HIS:ND1	2.45	0.46
2:E:848:GLU:OE2	2:E:869:VAL:HG21	2.16	0.46
2:E:875:THR:HA	2:E:916:GLU:HB2	1.98	0.46
2:E:1307:THR:HG21	2:E:1765:TYR:CE1	2.50	0.46
2:E:1587:PHE:N	2:E:1588:PRO:HD2	2.30	0.46
2:E:1646:VAL:O	2:E:1650:ARG:HG2	2.16	0.46
2:E:1678:GLN:H	2:E:1678:GLN:CD	2.22	0.46
2:E:1986:GLU:O	2:E:1986:GLU:HG2	2.15	0.46
2:E:2115:VAL:HG22	2:E:2126:GLU:HG2	1.98	0.46
2:E:2142:ALA:HB3	2:E:2158:PHE:HA	1.98	0.46
1:H:2300:ILE:HD11	2:G:1130:MET:HE1	1.98	0.46
2:G:930:LEU:O	2:G:934:ASN:HB2	2.15	0.46
2:G:1425:GLY:C	2:G:1426:ARG:HG2	2.41	0.46
2:G:1579:ILE:HD12	2:G:1579:ILE:N	2.31	0.46
2:G:1603:THR:HB	2:G:1640:ARG:NH1	2.30	0.46
2:G:2060:GLN:O	2:G:2063:LEU:HG	2.15	0.46
2:A:797:THR:CB	2:A:801:ILE:HD13	2.26	0.46
2:A:862:THR:OG1	2:A:863:ALA:N	2.49	0.46
2:A:871:LEU:H	2:A:905:ARG:HD3	1.80	0.46
2:A:1336:VAL:HG12	2:A:1338:PHE:CE1	2.51	0.46
2:A:1401:ALA:HB1	2:A:1402:PRO:HD2	1.98	0.46
2:A:1840:LEU:O	2:A:1844:THR:OG1	2.34	0.46
1:D:2048:THR:O	1:D:2051:ILE:HG13	2.16	0.46
1:D:2150:LEU:C	1:D:2150:LEU:HD12	2.41	0.46
1:D:2218:PRO:HG2	1:D:2223:PRO:CB	2.33	0.46
2:C:581:LEU:HD21	2:C:612:ILE:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:744:LYS:O	2:C:748:GLN:HG3	2.16	0.46
2:C:768:ARG:HH21	2:C:802:LEU:HD22	1.81	0.46
2:C:881:THR:HB	2:C:929:TYR:OH	2.16	0.46
2:C:980:LEU:CD2	2:C:998:LEU:HD12	2.46	0.46
2:C:1354:LEU:HB2	2:C:1356:LEU:HD21	1.96	0.46
2:C:1629:LEU:HD21	2:C:1669:VAL:CG2	2.46	0.46
2:C:1784:LEU:HD22	2:C:1788:PHE:CZ	2.51	0.46
2:C:1913:THR:HG22	2:C:1943:LYS:HZ1	1.81	0.46
2:C:2182:GLN:HB3	2:C:2184:PRO:CD	2.44	0.46
1:F:2085:LYS:O	1:F:2089:THR:HG23	2.16	0.46
1:F:2209:TYR:O	1:F:2213:VAL:HG23	2.16	0.46
2:E:612:ILE:HG21	2:E:633:VAL:HG21	1.97	0.46
2:E:810:GLU:HA	2:E:812:LEU:HD22	1.98	0.46
2:E:985:LEU:HD23	2:E:985:LEU:C	2.41	0.46
2:E:1525:ARG:O	2:E:1529:ILE:HG13	2.16	0.46
2:E:1645:GLU:CD	2:E:1645:GLU:H	2.23	0.46
2:G:467:GLN:O	2:G:471:LEU:HB2	2.16	0.46
2:G:613:LYS:CD	2:G:631:THR:HG22	2.42	0.46
2:G:821:ASN:N	2:G:843:ASP:OD2	2.40	0.46
2:G:892:VAL:HG22	2:G:893:GLU:N	2.31	0.46
2:G:951:LEU:O	2:G:955:ILE:HG13	2.16	0.46
2:G:1017:ASN:O	2:G:1033:LEU:HD23	2.14	0.46
2:G:1310:ILE:HD13	2:G:1318:TYR:OH	2.16	0.46
2:G:1404:GLY:HA3	2:G:1744:LEU:HD21	1.98	0.46
2:G:1442:GLN:O	2:G:1445:GLN:HG2	2.16	0.46
2:G:1491:TRP:HA	2:G:1497:VAL:HG11	1.98	0.46
2:G:1862:THR:C	2:G:1863:VAL:HG22	2.41	0.46
2:G:2082:GLU:HB3	2:G:2098:LYS:NZ	2.31	0.46
2:G:2171:PHE:HB3	2:G:2182:GLN:C	2.41	0.46
2:A:592:LEU:O	2:A:596:VAL:HG13	2.16	0.46
2:A:1365:LYS:HE3	2:A:1365:LYS:HB2	1.81	0.46
1:D:2092:ASP:OD2	1:D:2094:ARG:N	2.35	0.46
1:D:2277:THR:HG23	1:D:2278:PRO:HD2	1.97	0.46
2:C:522:PRO:HB2	2:C:562:MET:CE	2.47	0.46
2:C:1432:PRO:HG2	2:C:1436:LEU:HD12	1.97	0.46
2:C:1895:LEU:HD11	2:C:1997:MET:SD	2.56	0.46
2:C:2029:TYR:OH	2:C:2056:LEU:HD22	2.16	0.46
2:C:2130:LEU:HD22	2:C:2143:ILE:CG2	2.46	0.46
2:E:737:PHE:CZ	2:E:930:LEU:HD23	2.51	0.46
2:E:776:HIS:CE1	2:E:894:LEU:HD11	2.51	0.46
2:E:1009:ALA:O	2:E:1012:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2127:ASN:OD1	2:E:2147:THR:HG22	2.16	0.46
2:E:2129:TRP:CD1	2:E:2143:ILE:HD11	2.51	0.46
1:H:2300:ILE:HD12	2:G:1130:MET:HE1	1.97	0.46
2:G:1402:PRO:HG2	2:G:1405:SER:OG	2.16	0.46
2:G:1922:LYS:HD3	2:G:1937:TRP:CH2	2.51	0.46
2:G:2067:ALA:HA	2:G:2070:THR:OG1	2.15	0.46
1:B:2232:GLU:HG3	1:B:2232:GLU:O	2.16	0.45
2:A:1465:THR:HA	2:A:1468:LEU:HD23	1.98	0.45
2:C:1080:GLN:H	2:C:1080:GLN:CD	2.24	0.45
2:C:1356:LEU:HD22	2:C:1356:LEU:N	2.31	0.45
2:C:1487:LEU:HD23	2:C:1488:SER:HB2	1.97	0.45
2:C:1979:ILE:HD12	2:C:1979:ILE:C	2.41	0.45
2:E:764:VAL:HG11	2:E:802:LEU:HB2	1.96	0.45
2:E:1305:GLU:CD	2:E:1727:ARG:HH12	2.24	0.45
2:E:1386:THR:HG22	2:E:1564:TYR:CE2	2.51	0.45
2:E:1673:HIS:CD2	2:E:1675:ALA:HB3	2.51	0.45
2:E:1928:VAL:HB	2:E:1929:PRO:HD2	1.98	0.45
2:E:2097:LEU:HD23	2:E:2097:LEU:C	2.40	0.45
2:G:529:LEU:CD2	2:G:533:GLN:HB2	2.45	0.45
2:G:976:PHE:HA	2:G:979:MET:CE	2.46	0.45
2:G:1080:GLN:OE1	2:G:1083:LYS:HD2	2.16	0.45
2:G:1426:ARG:HB2	2:G:1499:THR:CG2	2.40	0.45
2:G:1483:GLN:O	2:G:1487:LEU:HB3	2.16	0.45
2:G:1816:LEU:HD21	2:G:1836:TYR:CE2	2.51	0.45
2:A:498:PRO:HB3	2:A:733:LEU:C	2.41	0.45
2:A:636:THR:OG1	2:A:640:LYS:HB3	2.17	0.45
2:A:836:HIS:N	2:A:839:MET:HE2	2.24	0.45
2:A:976:PHE:CE2	2:A:980:LEU:HD11	2.51	0.45
2:A:1460:LEU:HD23	2:A:1479:ALA:CB	2.40	0.45
2:A:1914:ARG:HB2	2:A:1917:GLU:CD	2.41	0.45
2:C:898:ASP:O	2:C:902:MET:HG3	2.16	0.45
2:C:1251:LEU:HB3	2:C:1304:VAL:HG13	1.97	0.45
2:C:1711:HIS:NE2	2:C:1747:SER:HB2	2.31	0.45
2:E:498:PRO:HB3	2:E:733:LEU:C	2.41	0.45
2:E:546:ASN:O	2:E:715:VAL:HG13	2.17	0.45
2:E:754:ASP:OD1	2:E:787:TYR:OH	2.33	0.45
2:E:774:PHE:CE1	2:E:866:ALA:HB2	2.51	0.45
2:E:775:VAL:CG2	2:E:780:GLU:HG2	2.46	0.45
2:E:807:GLY:O	2:E:810:GLU:HB2	2.16	0.45
2:E:1429:TYR:CE1	2:E:1506:ASP:HB2	2.51	0.45
2:E:1567:SER:O	2:E:1570:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1613:VAL:HG22	2:E:1714:VAL:HG22	1.98	0.45
1:H:2071:ASP:C	1:H:2073:ASP:H	2.25	0.45
2:G:749:LEU:O	2:G:753:ASN:ND2	2.32	0.45
2:G:1544:VAL:O	2:G:1546:LEU:HD12	2.17	0.45
2:G:1683:ILE:O	2:G:1687:LEU:HD13	2.16	0.45
2:G:1912:GLN:O	2:G:1943:LYS:NZ	2.50	0.45
2:G:2135:GLU:OE1	2:G:2169:LYS:N	2.46	0.45
1:B:2098:ALA:HA	1:B:2151:ILE:O	2.16	0.45
1:B:2203:ALA:HB2	1:B:2234:ARG:CD	2.46	0.45
1:B:2275:LEU:HD21	2:A:1335:PRO:CB	2.46	0.45
2:A:675:VAL:O	2:A:679:ILE:HG13	2.16	0.45
2:A:1480:THR:HB	2:A:1481:PRO:HD2	1.98	0.45
2:A:1571:ARG:CG	2:A:1572:PRO:HD2	2.41	0.45
2:A:1650:ARG:HD3	2:A:1653:LEU:HB2	1.98	0.45
2:A:1948:VAL:CG2	2:A:1971:LYS:HZ2	2.29	0.45
2:A:2089:ILE:C	2:A:2089:ILE:HD12	2.41	0.45
1:D:2064:TYR:O	1:D:2198:SER:HA	2.17	0.45
2:C:1800:GLY:O	2:C:1803:ALA:HB3	2.17	0.45
2:E:501:LYS:O	2:E:502:ARG:HD2	2.17	0.45
2:E:1146:GLU:O	2:E:1150:LYS:HG2	2.16	0.45
2:E:1598:THR:O	2:E:1602:ILE:HG13	2.17	0.45
2:E:1718:THR:HG21	2:E:1758:LEU:HB3	1.98	0.45
2:E:2174:SER:OG	2:E:2177:TYR:O	2.34	0.45
2:G:518:TRP:CE3	2:G:519:ALA:HB2	2.51	0.45
2:G:626:GLN:O	2:G:630:GLU:HG2	2.15	0.45
2:G:1063:LEU:HB3	2:G:1163:MET:HE1	1.98	0.45
2:G:1075:TYR:O	2:G:1077:PRO:HD3	2.15	0.45
2:G:1425:GLY:O	2:G:1426:ARG:HG2	2.17	0.45
2:G:1886:LEU:HD12	2:G:1886:LEU:C	2.42	0.45
2:G:1919:GLY:O	2:G:1922:LYS:HB3	2.15	0.45
2:A:544:ASP:OD1	2:A:571:LYS:HE3	2.16	0.45
2:A:775:VAL:HG22	2:A:776:HIS:N	2.31	0.45
2:A:804:HIS:HA	2:A:809:ARG:CD	2.46	0.45
2:A:910:GLN:H	2:A:910:GLN:CD	2.23	0.45
2:A:1058:MET:HE1	2:A:1066:VAL:CG2	2.47	0.45
2:A:1397:VAL:O	2:A:1540:VAL:HG23	2.17	0.45
2:A:1525:ARG:O	2:A:1529:ILE:HG13	2.17	0.45
1:D:2218:PRO:CD	1:D:2219:ASN:N	2.78	0.45
1:D:2227:THR:HG22	1:D:2229:THR:H	1.81	0.45
2:C:500:LYS:HE2	2:C:502:ARG:HG2	1.98	0.45
2:C:682:ARG:O	2:C:685:ARG:HB3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:457:LEU:HD23	2:E:458:VAL:N	2.31	0.45
2:E:466:ASP:OD1	2:E:466:ASP:N	2.45	0.45
2:E:613:LYS:O	2:E:631:THR:HB	2.17	0.45
2:E:729:ARG:NH1	2:E:733:LEU:HD12	2.32	0.45
2:E:1520:GLU:OE2	2:E:1811:TYR:N	2.50	0.45
2:E:1906:THR:HA	2:E:1909:GLU:HG3	1.97	0.45
2:E:1920:ILE:O	2:E:1924:ILE:HG13	2.16	0.45
1:H:2070:ASN:HD21	1:H:2076:THR:CG2	2.27	0.45
2:G:557:LYS:NZ	4:G:2301:HOH:O	2.49	0.45
2:G:918:ILE:HD12	2:G:918:ILE:N	2.31	0.45
2:G:1247:LEU:CD1	2:G:1310:ILE:HG13	2.47	0.45
2:G:1583:THR:O	2:G:1584:ILE:HD13	2.17	0.45
2:G:1785:PRO:HB3	2:G:1848:LEU:HD13	1.99	0.45
2:A:479:MET:HE2	2:A:480:PRO:CD	2.47	0.45
2:A:591:PRO:O	2:A:592:LEU:HD12	2.16	0.45
2:A:772:LEU:CD1	2:A:876:VAL:HG22	2.45	0.45
2:A:835:HIS:HB3	2:A:861:CYS:CB	2.46	0.45
2:A:1063:LEU:HG	2:A:1163:MET:HE1	1.97	0.45
2:A:1983:LEU:CD1	2:A:2143:ILE:HG21	2.39	0.45
2:A:2009:ASP:HB2	2:A:2013:LYS:HD3	1.98	0.45
1:D:2139:HIS:CE1	1:D:2141:MET:HB2	2.52	0.45
1:D:2294:PHE:CE2	2:C:1119:LEU:HD21	2.51	0.45
2:C:895:SER:OG	2:C:898:ASP:OD2	2.34	0.45
2:C:1342:ILE:HG22	2:C:1821:SER:OG	2.17	0.45
2:C:1735:GLU:O	2:C:1739:MET:HG3	2.16	0.45
2:E:625:LYS:HD3	2:E:650:ASP:OD2	2.16	0.45
2:E:883:VAL:HG12	2:E:884:TYR:H	1.81	0.45
2:E:1242:MET:HE3	2:E:1769:PHE:HZ	1.82	0.45
2:E:1268:GLU:OE2	2:E:1327:TRP:NE1	2.49	0.45
1:H:2084:LEU:HD22	1:H:2199:LEU:HD11	1.97	0.45
2:G:603:PHE:HA	2:G:606:ARG:HB2	1.99	0.45
2:G:1274:VAL:HA	2:G:1319:PHE:O	2.16	0.45
2:G:1718:THR:HG23	2:G:1758:LEU:HB3	1.97	0.45
2:G:1816:LEU:HD21	2:G:1836:TYR:HE2	1.81	0.45
2:G:1862:THR:CG2	2:G:1863:VAL:HG13	2.33	0.45
2:G:2083:VAL:HA	2:G:2097:LEU:HD13	1.98	0.45
2:A:908:ARG:HD2	2:A:911:TYR:HD2	1.81	0.45
2:A:2077:ILE:HG23	2:A:2103:ARG:HG3	1.99	0.45
1:D:2097:VAL:O	1:D:2152:HIS:HA	2.16	0.45
2:C:684:ILE:HA	2:C:687:THR:HB	1.98	0.45
2:C:1369:TYR:HB3	2:C:1416:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1382:ILE:H	2:C:1382:ILE:CD1	2.23	0.45
2:C:1476:LEU:HD23	2:C:1476:LEU:C	2.42	0.45
2:C:1546:LEU:C	2:C:1773:ALA:HB1	2.42	0.45
2:C:1799:SER:HA	2:C:1862:THR:OG1	2.17	0.45
2:C:1807:ALA:O	2:C:1810:THR:OG1	2.25	0.45
2:E:481:GLU:OE1	2:E:482:GLY:N	2.48	0.45
2:E:576:LYS:CG	2:E:577:GLY:H	2.28	0.45
2:E:1013:LEU:HB3	2:E:1019:ILE:HG12	1.97	0.45
2:E:1065:ARG:O	2:E:1069:GLN:HG3	2.16	0.45
2:E:1233:VAL:CG1	2:E:1253:ILE:HG23	2.47	0.45
2:E:1314:MET:HE1	2:E:1341:LEU:HD23	1.98	0.45
2:E:1629:LEU:HD21	2:E:1669:VAL:HB	1.98	0.45
2:E:1804:ILE:O	2:E:1808:THR:HG23	2.17	0.45
2:E:1826:GLN:OE1	2:E:1826:GLN:N	2.33	0.45
2:E:2015:ILE:HA	2:E:2016:PRO:HD3	1.87	0.45
2:G:1115:TYR:CZ	2:G:1170:ARG:HD2	2.51	0.45
2:G:1235:ILE:HG21	2:G:1322:VAL:HG21	1.97	0.45
2:G:2018:PHE:HE2	2:G:2023:VAL:HG12	1.82	0.45
2:G:2141:LEU:HD13	2:G:2141:LEU:H	1.81	0.45
2:A:1394:ASP:HA	2:A:1538:ARG:NH1	2.31	0.45
2:A:1625:ALA:HA	2:A:1697:ILE:CD1	2.47	0.45
1:D:2101:LEU:HD21	1:D:2151:ILE:HD12	1.98	0.45
2:C:886:PRO:HB2	2:C:1132:TYR:HB2	1.99	0.45
2:C:1022:ASP:CB	2:C:1025:THR:HG22	2.40	0.45
2:C:1578:HIS:HB2	2:C:1755:VAL:HG22	1.99	0.45
2:C:1866:LEU:O	2:C:1870:MET:HG2	2.17	0.45
1:F:2191:ALA:O	1:F:2197:VAL:HG23	2.16	0.45
2:E:504:ASP:HA	2:E:507:ASP:OD2	2.17	0.45
2:E:665:ILE:HG23	2:E:700:SER:HB2	1.99	0.45
2:E:1875:TYR:CE1	2:E:1976:LEU:HB3	2.52	0.45
2:E:2090:ARG:NH2	2:E:2191:ALA:HB3	2.31	0.45
1:H:2168:THR:O	1:H:2172:LYS:HG3	2.17	0.45
1:H:2237:LEU:C	1:H:2238:LEU:HD12	2.41	0.45
2:G:1138:GLY:O	2:G:1142:ARG:HG3	2.16	0.45
2:G:1363:ALA:HB1	2:G:1387:PHE:HE1	1.76	0.45
2:G:1785:PRO:O	2:G:1789:VAL:HG23	2.17	0.45
2:G:1992:LEU:O	2:G:1996:GLU:HG3	2.16	0.45
2:G:2083:VAL:HG12	2:G:2084:ASP:H	1.82	0.45
2:G:2169:LYS:O	2:G:2170:LEU:HB2	2.16	0.45
1:B:2157:ASN:O	1:B:2157:ASN:ND2	2.50	0.45
2:A:973:THR:HG23	2:A:976:PHE:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2051:ILE:C	1:D:2051:ILE:HD12	2.42	0.45
1:D:2207:LEU:H	1:D:2207:LEU:CD2	2.26	0.45
2:C:591:PRO:CG	2:C:664:GLU:HB2	2.47	0.45
2:C:1084:LEU:C	2:C:1084:LEU:HD12	2.42	0.45
2:C:1185:PRO:HG2	2:C:1188:ILE:CD1	2.47	0.45
2:C:2002:VAL:CB	2:C:2176:SER:HB2	2.47	0.45
2:E:581:LEU:HG	2:E:582:ASP:OD1	2.16	0.45
2:E:985:LEU:HD23	2:E:985:LEU:O	2.17	0.45
2:E:1528:PHE:O	2:E:1532:GLN:HG2	2.17	0.45
2:E:2052:LEU:N	2:E:2052:LEU:HD12	2.31	0.45
1:H:2170:HIS:O	1:H:2174:VAL:HG23	2.16	0.45
2:G:573:ARG:HG2	2:G:579:ILE:CA	2.46	0.45
2:G:641:TRP:HD1	2:G:679:ILE:HD13	1.81	0.45
2:G:1354:LEU:HD21	2:G:1385:GLN:CB	2.45	0.45
2:G:1455:LYS:HD2	2:G:1475:ASP:CG	2.42	0.45
2:G:1979:ILE:O	2:G:1983:LEU:N	2.42	0.45
1:B:2280:PRO:HD2	1:B:2283:SER:HB2	1.99	0.45
2:A:917:GLY:C	2:A:918:ILE:HD12	2.42	0.45
2:A:1241:PRO:HG3	2:A:1821:SER:HB2	1.99	0.45
2:A:1460:LEU:HD13	2:A:1460:LEU:HA	1.71	0.45
2:A:1911:ILE:HD13	2:A:1912:GLN:N	2.31	0.45
2:C:588:TYR:CE2	2:C:599:GLN:HG2	2.51	0.45
2:C:1435:GLU:O	2:C:1439:LEU:HB2	2.17	0.45
2:C:1744:LEU:O	2:C:1746:PRO:HD3	2.17	0.45
2:C:2050:ALA:O	2:C:2051:SER:HB2	2.17	0.45
2:E:1613:VAL:HG13	2:E:1714:VAL:HG23	1.98	0.45
2:G:565:MET:O	2:G:569:ILE:HG13	2.17	0.45
2:G:876:VAL:CG2	2:G:906:ALA:HB2	2.47	0.45
2:G:1049:THR:O	2:G:1053:LEU:HD13	2.17	0.45
2:G:1240:GLN:HB2	2:G:1248:ARG:HG2	1.98	0.45
2:G:1283:LEU:N	2:G:1283:LEU:HD12	2.32	0.45
2:G:1303:THR:O	2:G:1727:ARG:HD2	2.17	0.45
2:G:1584:ILE:HG22	2:G:1586:HIS:H	1.81	0.45
2:G:1840:LEU:HD23	2:G:1840:LEU:C	2.42	0.45
2:G:1952:PHE:O	2:G:2005:MET:HA	2.17	0.45
2:G:1968:ILE:C	2:G:1968:ILE:HD12	2.41	0.45
1:B:2080:PRO:HG2	1:B:2083:ILE:CG1	2.46	0.45
1:B:2289:ILE:O	1:B:2292:THR:HG22	2.17	0.45
2:A:1149:LEU:HD21	2:A:1271:TRP:CZ3	2.51	0.45
2:A:1426:ARG:NH2	2:A:1472:GLU:HA	2.32	0.45
2:A:1543:SER:OG	2:A:1546:LEU:HD11	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1570:VAL:O	2:A:1570:VAL:HG12	2.16	0.45
2:C:513:THR:HG22	2:C:520:ARG:HH21	1.82	0.45
2:C:883:VAL:HG12	2:C:884:TYR:N	2.32	0.45
2:C:1124:LEU:C	2:C:1124:LEU:HD13	2.42	0.45
2:C:1289:ILE:HD12	2:C:1289:ILE:O	2.17	0.45
2:C:2181:ASP:OD1	2:C:2181:ASP:N	2.50	0.45
1:F:2236:LEU:HD23	1:F:2236:LEU:C	2.42	0.45
1:F:2247:LEU:HD23	1:F:2275:LEU:HA	1.99	0.45
1:F:2309:ALA:CB	2:E:618:THR:HA	2.47	0.45
2:E:650:ASP:N	2:E:650:ASP:OD1	2.49	0.45
2:E:923:GLN:O	2:E:926:ILE:HG12	2.16	0.45
2:E:1222:THR:O	2:E:1226:LEU:HB2	2.17	0.45
2:E:1394:ASP:OD1	2:E:1417:ARG:HD3	2.17	0.45
2:E:1624:THR:HG22	2:E:1697:ILE:HD13	2.00	0.45
2:E:2129:TRP:CZ3	2:E:2175:ASP:HB3	2.52	0.45
1:H:2190:VAL:HG22	1:H:2199:LEU:HD21	1.98	0.45
2:G:612:ILE:C	2:G:612:ILE:HD12	2.42	0.45
1:B:2237:LEU:HD12	1:B:2238:LEU:H	1.82	0.44
2:A:713:LEU:HB2	2:A:715:VAL:HG23	1.98	0.44
2:A:1481:PRO:HB2	2:A:1518:ILE:HG23	1.99	0.44
2:A:1774:LEU:HA	2:A:1775:PRO:HD3	1.83	0.44
2:A:2170:LEU:C	2:A:2170:LEU:HD13	2.41	0.44
1:D:2220:VAL:HG13	1:D:2222:ASN:N	2.31	0.44
1:F:2106:PRO:HG3	1:F:2114:GLU:CD	2.42	0.44
2:E:1080:GLN:OE1	2:E:1083:LYS:HD3	2.17	0.44
2:E:1163:MET:O	2:E:1166:MET:HB3	2.16	0.44
2:E:1184:CYS:HB2	2:E:1226:LEU:HD21	1.99	0.44
2:E:1246:MET:O	2:E:1247:LEU:HD12	2.17	0.44
2:E:1383:GLN:CD	2:E:1409:VAL:HG21	2.42	0.44
2:E:1418:HIS:HB2	2:E:1502:LEU:HD12	1.98	0.44
2:E:1587:PHE:HB3	2:E:1588:PRO:CD	2.46	0.44
2:E:1594:MET:HB2	2:E:1716:MET:HE3	1.99	0.44
2:E:1676:LEU:O	2:E:1681:LYS:HE3	2.16	0.44
2:E:1855:GLU:HB3	2:E:1866:LEU:HD12	1.99	0.44
1:H:2075:ILE:HA	1:H:2111:GLN:O	2.17	0.44
1:H:2302:VAL:HG11	2:G:1128:ALA:HA	1.98	0.44
1:H:2307:ASN:OD1	2:G:672:ARG:NH1	2.50	0.44
2:G:967:VAL:HG13	2:G:1002:ARG:HB2	1.98	0.44
2:G:1397:VAL:HG12	2:G:1398:LEU:N	2.31	0.44
2:G:1641:PHE:HE2	2:G:1695:VAL:CG2	2.30	0.44
2:A:621:ARG:CG	2:A:622:GLN:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:797:THR:O	2:A:801:ILE:HB	2.17	0.44
2:A:936:GLN:HE21	2:A:936:GLN:HB3	1.56	0.44
2:A:1206:ASP:OD2	2:A:1209:ARG:HB2	2.17	0.44
2:A:2085:ASP:N	2:A:2086:PRO:HD3	2.31	0.44
2:C:482:GLY:CA	2:C:497:PRO:HG3	2.47	0.44
2:C:1148:CYS:SG	2:C:1156:VAL:HG12	2.57	0.44
2:C:1149:LEU:HD21	2:C:1271:TRP:CZ3	2.52	0.44
2:C:1386:THR:O	2:C:1390:LEU:HG	2.17	0.44
2:C:1426:ARG:O	2:C:1500:VAL:HA	2.16	0.44
2:C:1486:VAL:HG23	2:C:1487:LEU:H	1.82	0.44
2:C:1652:LEU:HD12	2:C:1652:LEU:N	2.31	0.44
1:F:2162:MET:HE2	1:F:2167:VAL:HA	1.99	0.44
2:E:832:PHE:CD2	2:E:858:VAL:HG11	2.53	0.44
2:E:1095:ILE:HD12	2:E:1095:ILE:N	2.33	0.44
2:E:1213:LEU:C	2:E:1213:LEU:HD23	2.42	0.44
2:E:1919:GLY:HA2	2:E:1922:LYS:HB2	1.98	0.44
2:E:2019:THR:O	2:E:2023:VAL:HG13	2.16	0.44
2:E:2048:ASN:O	2:E:2049:TYR:HB2	2.16	0.44
2:G:1894:LYS:CG	2:G:1990:ASN:HD22	2.28	0.44
2:A:955:ILE:CG2	2:A:1030:ALA:HB2	2.42	0.44
2:A:1008:SER:O	2:A:1012:VAL:HG13	2.17	0.44
2:A:1487:LEU:HD23	2:A:1487:LEU:C	2.43	0.44
2:A:1514:GLN:HG3	2:A:1515:MET:H	1.83	0.44
2:A:1539:ILE:HB	2:A:1556:ILE:CG2	2.47	0.44
2:A:2115:VAL:HG12	2:A:2126:GLU:CG	2.48	0.44
2:C:781:THR:HG23	2:C:834:ILE:CD1	2.47	0.44
2:C:881:THR:CG2	2:C:921:THR:HB	2.47	0.44
2:C:1138:GLY:O	2:C:1142:ARG:HG3	2.17	0.44
2:C:1416:LEU:HD23	2:C:1416:LEU:C	2.42	0.44
2:C:1946:VAL:O	2:C:1949:GLN:HB2	2.17	0.44
2:C:2003:GLN:CG	2:C:2178:VAL:HG23	2.47	0.44
2:C:2031:ILE:CG2	2:C:2037:PHE:HB2	2.46	0.44
2:E:580:ASP:HB3	2:E:583:ALA:CB	2.48	0.44
2:E:1124:LEU:HD12	2:E:1124:LEU:N	2.31	0.44
2:E:1590:LEU:HD23	2:E:1590:LEU:C	2.42	0.44
2:E:1987:GLY:CA	2:E:2139:THR:HA	2.45	0.44
2:G:898:ASP:O	2:G:902:MET:HG3	2.17	0.44
2:G:1438:ASP:HB3	2:G:1459:LYS:CE	2.48	0.44
2:G:1445:GLN:HA	2:G:1457:ILE:HD11	1.98	0.44
2:G:1982:ILE:HG21	2:G:1990:ASN:OD1	2.17	0.44
1:B:2189:THR:O	1:B:2199:LEU:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1391:TYR:O	2:A:1417:ARG:HD2	2.17	0.44
2:A:1407:LYS:HZ3	2:A:1407:LYS:CB	2.30	0.44
2:A:1942:PHE:O	2:A:1946:VAL:HG12	2.18	0.44
1:D:2168:THR:O	1:D:2172:LYS:HG3	2.17	0.44
1:D:2207:LEU:HD23	1:D:2207:LEU:N	2.28	0.44
1:D:2285:GLN:OE1	1:D:2285:GLN:N	2.47	0.44
2:C:757:TYR:HE1	2:C:792:ALA:HA	1.83	0.44
2:C:1089:LEU:HD11	2:C:1119:LEU:HD13	1.98	0.44
2:C:1205:LEU:HD13	2:C:1210:MET:HB2	1.99	0.44
2:C:1851:ALA:O	2:C:1853:ILE:N	2.50	0.44
2:C:1954:ARG:O	2:C:1954:ARG:HD3	2.17	0.44
2:E:617:LEU:HB3	2:E:636:THR:HB	1.99	0.44
2:E:772:LEU:HD12	2:E:876:VAL:HG13	2.00	0.44
2:E:775:VAL:HG21	2:E:780:GLU:CG	2.47	0.44
2:E:884:TYR:OH	2:E:1079:ARG:NH1	2.49	0.44
2:E:961:ARG:HB3	2:E:961:ARG:NH1	2.32	0.44
2:E:1920:ILE:HA	2:E:1923:ARG:HG2	1.99	0.44
2:E:2141:LEU:HD22	2:E:2168:LEU:HD21	1.99	0.44
1:H:2119:VAL:HG22	1:H:2247:LEU:HB2	1.99	0.44
2:G:1148:CYS:SG	2:G:1156:VAL:HG12	2.58	0.44
2:G:1365:LYS:O	2:G:1367:LYS:HG2	2.17	0.44
2:G:1639:ASP:OD1	2:G:1639:ASP:N	2.51	0.44
2:G:1862:THR:CG2	2:G:1863:VAL:N	2.80	0.44
1:B:2079:MET:CE	1:B:2115:ILE:HG21	2.48	0.44
2:A:593:LYS:HA	2:A:596:VAL:HG22	1.98	0.44
2:A:1419:TRP:CZ3	2:A:1476:LEU:HB2	2.52	0.44
2:A:1511:LEU:C	2:A:1511:LEU:HD12	2.43	0.44
1:D:2053:THR:HA	1:D:2093:LEU:HD21	1.99	0.44
2:C:607:LEU:N	2:C:607:LEU:HD23	2.32	0.44
2:C:1396:ASN:HB3	2:C:1556:ILE:HG22	1.99	0.44
2:C:1477:ILE:HD11	2:C:1484:TRP:HZ3	1.83	0.44
2:C:1533:THR:OG1	2:C:1535:LEU:HG	2.16	0.44
2:C:1708:PHE:O	2:C:1742:LYS:HG3	2.17	0.44
2:C:2031:ILE:HG23	2:C:2037:PHE:CB	2.44	0.44
1:F:2240:ASP:OD1	1:F:2240:ASP:N	2.47	0.44
2:E:537:PHE:CE1	2:E:541:PHE:HD2	2.35	0.44
2:E:826:ASP:O	2:E:829:PRO:HD2	2.17	0.44
2:E:1161:LEU:HG	2:E:1165:LYS:HE3	1.99	0.44
2:E:1429:TYR:CD2	2:E:1478:LEU:HD22	2.53	0.44
2:E:1443:ASP:O	2:E:1446:LYS:HB3	2.17	0.44
2:E:2049:TYR:CB	2:E:2053:VAL:HG22	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:683:THR:O	2:G:687:THR:OG1	2.27	0.44
2:G:1849:SER:HB2	2:G:1854:ILE:CG2	2.47	0.44
2:G:2140:LEU:HD22	2:G:2140:LEU:C	2.43	0.44
1:B:2127:ASN:OD1	1:B:2127:ASN:N	2.49	0.44
1:B:2284:GLU:HG3	1:B:2291:PHE:CZ	2.52	0.44
2:A:733:LEU:HD11	2:A:917:GLY:N	2.33	0.44
2:A:816:ALA:O	2:A:819:VAL:HG12	2.18	0.44
2:A:1274:VAL:HG11	2:A:1308:VAL:HG11	1.99	0.44
2:A:1535:LEU:C	2:A:1535:LEU:HD12	2.42	0.44
2:A:1720:PHE:O	2:A:1728:TYR:HA	2.17	0.44
2:A:1898:ILE:O	2:A:1902:VAL:HG12	2.18	0.44
2:A:1965:GLN:C	2:A:1967:VAL:H	2.26	0.44
2:C:877:ILE:HA	2:C:918:ILE:O	2.18	0.44
2:C:892:VAL:HG22	2:C:893:GLU:N	2.32	0.44
2:C:1089:LEU:O	2:C:1093:VAL:HG13	2.18	0.44
2:C:1136:SER:O	2:C:1140:ILE:HG12	2.16	0.44
2:C:1480:THR:H	2:C:1483:GLN:HE21	1.65	0.44
2:C:1798:GLU:N	2:C:1798:GLU:OE2	2.51	0.44
2:C:1979:ILE:CG2	2:C:1994:ALA:HB3	2.48	0.44
2:C:2015:ILE:HG12	2:C:2069:PHE:CD2	2.53	0.44
1:F:2148:LEU:O	1:F:2186:LEU:N	2.49	0.44
2:E:798:ILE:HG13	2:E:801:ILE:HB	2.00	0.44
2:E:943:LEU:HD22	2:E:973:THR:OG1	2.17	0.44
2:E:1100:SER:CB	2:E:1106:ALA:HB2	2.46	0.44
2:E:1426:ARG:HG2	2:E:1500:VAL:HG12	1.99	0.44
2:E:1614:PHE:CG	2:E:1739:MET:HE3	2.53	0.44
2:E:1683:ILE:O	2:E:1687:LEU:HD13	2.18	0.44
2:E:1784:LEU:N	2:E:1785:PRO:CD	2.81	0.44
1:H:2298:GLU:OE2	2:G:1118:ARG:NE	2.49	0.44
2:G:825:LYS:HD2	2:G:825:LYS:HA	1.82	0.44
2:G:1988:HIS:HB3	2:G:1990:ASN:OD1	2.17	0.44
2:A:454:PRO:HD3	2:A:963:ARG:CZ	2.48	0.44
2:A:509:ASN:O	2:A:511:PRO:HD3	2.18	0.44
2:A:729:ARG:CG	2:A:730:PRO:HD2	2.48	0.44
2:C:1090:LEU:HD23	2:C:1090:LEU:O	2.18	0.44
2:C:1618:ARG:HG3	2:C:1673:HIS:ND1	2.33	0.44
1:F:2109:ASN:HD22	1:F:2112:VAL:HG23	1.81	0.44
1:F:2162:MET:SD	1:F:2167:VAL:HG22	2.58	0.44
2:E:593:LYS:HE3	2:E:616:GLU:OE2	2.17	0.44
2:E:802:LEU:HD12	2:E:803:LYS:N	2.33	0.44
2:E:1000:GLN:O	2:E:1003:VAL:HB	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1137:ALA:O	2:E:1141:LEU:HG	2.17	0.44
2:E:1819:ASN:ND2	2:E:1822:TYR:HB2	2.33	0.44
2:G:1065:ARG:O	2:G:1069:GLN:HG3	2.17	0.44
2:G:1451:LEU:HD22	2:G:1452:ARG:HH21	1.83	0.44
2:G:1799:SER:OG	2:G:1802:ASP:N	2.50	0.44
2:G:2103:ARG:O	2:G:2105:LEU:HD12	2.18	0.44
2:A:596:VAL:O	2:A:600:VAL:HG23	2.18	0.44
2:A:668:LEU:HD23	2:A:676:LEU:HB2	2.00	0.44
2:A:1242:MET:HE1	2:A:1307:THR:HG21	2.00	0.44
2:A:2031:ILE:HG22	2:A:2036:ASP:O	2.17	0.44
2:A:2111:PHE:CD1	2:A:2113:PRO:HD3	2.49	0.44
2:C:811:VAL:O	2:C:815:ALA:N	2.42	0.44
2:C:1703:CYS:HG	2:C:1704:TRP:CD1	2.36	0.44
2:C:1715:VAL:HG23	2:C:1740:PHE:CE1	2.52	0.44
1:F:2193:THR:HB	1:F:2194:PRO:CD	2.48	0.44
2:E:479:MET:HE1	2:E:496:VAL:HG21	1.99	0.44
2:E:512:VAL:HG22	2:E:520:ARG:HG3	2.00	0.44
2:E:799:ASN:O	2:E:803:LYS:N	2.22	0.44
2:E:1063:LEU:HD23	2:E:1163:MET:CE	2.47	0.44
2:E:1185:PRO:HG2	2:E:1188:ILE:CD1	2.48	0.44
2:E:1457:ILE:HD13	2:E:1476:LEU:HD23	1.99	0.44
2:E:1837:LEU:C	2:E:1837:LEU:HD12	2.43	0.44
2:E:1865:PRO:CG	2:E:1870:MET:HE2	2.47	0.44
1:H:2091:ALA:HB2	1:H:2153:THR:HG21	1.99	0.44
2:G:519:ALA:HA	2:G:610:TYR:OH	2.18	0.44
2:G:547:MET:HE3	2:G:695:ARG:HH21	1.83	0.44
2:G:1491:TRP:CZ2	2:G:1532:GLN:HG3	2.53	0.44
2:G:1511:LEU:C	2:G:1511:LEU:HD12	2.42	0.44
2:G:1889:LEU:HD12	2:G:1889:LEU:N	2.32	0.44
2:G:2063:LEU:C	2:G:2063:LEU:HD12	2.43	0.44
2:A:687:THR:HG23	2:A:692:GLU:O	2.17	0.44
2:A:738:ILE:HD13	2:A:755:ILE:HG21	2.00	0.44
2:A:1085:GLU:OE2	2:A:1122:GLU:N	2.41	0.44
2:A:1428:VAL:HG22	2:A:1477:ILE:CG1	2.47	0.44
2:A:1581:SER:HB2	2:A:1760:ALA:HA	1.99	0.44
2:A:1979:ILE:O	2:A:1982:ILE:HG22	2.18	0.44
1:D:2079:MET:CE	1:D:2115:ILE:HG21	2.48	0.44
2:C:593:LYS:HE2	2:C:597:GLN:OE1	2.18	0.44
2:C:1617:SER:HB3	2:C:1620:GLN:HB2	2.00	0.44
2:C:1881:THR:OG1	2:C:1907:GLU:OE1	2.36	0.44
2:C:1911:ILE:O	2:C:1913:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1979:ILE:HD13	2:C:2130:LEU:CD1	2.48	0.44
1:F:2284:GLU:OE2	2:E:1174:THR:HG23	2.17	0.44
2:E:526:THR:O	2:E:527:LYS:HB2	2.18	0.44
2:E:546:ASN:C	2:E:715:VAL:HG22	2.43	0.44
2:E:590:ALA:O	2:E:637:THR:HA	2.17	0.44
2:E:835:HIS:CE1	2:E:865:LEU:HB2	2.52	0.44
2:E:998:LEU:O	2:E:1002:ARG:HG3	2.18	0.44
2:E:1073:PHE:CD1	2:E:1133:VAL:HG22	2.53	0.44
2:E:1276:ASP:OD1	2:E:1279:GLY:N	2.49	0.44
2:E:1560:LYS:HA	2:E:1563:ILE:CG1	2.43	0.44
2:G:541:PHE:HB3	2:G:542:LEU:HD12	2.00	0.44
2:G:1241:PRO:CG	2:G:1821:SER:HB2	2.48	0.44
2:G:1490:GLN:CD	2:G:1492:LYS:HG2	2.43	0.44
2:G:1861:GLY:O	2:G:1862:THR:CB	2.64	0.44
2:G:2083:VAL:CG1	2:G:2086:PRO:HG3	2.48	0.44
2:G:2093:GLU:HA	2:G:2094:PRO:HD3	1.81	0.44
1:B:2299:ASP:C	1:B:2300:ILE:HD12	2.43	0.43
2:A:562:MET:O	2:A:566:LEU:HG	2.18	0.43
2:A:1397:VAL:HB	2:A:1562:ASP:HB3	2.00	0.43
2:A:1471:LEU:HD23	2:A:1471:LEU:C	2.43	0.43
2:A:1497:VAL:O	2:A:1500:VAL:HG12	2.17	0.43
2:A:1622:ARG:NH2	2:A:1658:GLU:OE1	2.51	0.43
2:A:1903:THR:HG22	2:A:1971:LYS:NZ	2.33	0.43
2:A:1982:ILE:HG23	2:A:1991:ALA:CB	2.48	0.43
2:A:2129:TRP:CZ3	2:A:2175:ASP:HB3	2.53	0.43
2:C:588:TYR:HB3	2:C:635:VAL:HG22	2.00	0.43
2:C:729:ARG:HG3	2:C:730:PRO:HD2	2.00	0.43
2:C:844:ARG:O	2:C:848:GLU:HG3	2.17	0.43
2:C:1403:THR:HA	2:C:1407:LYS:HE3	1.98	0.43
2:C:1858:GLU:O	2:C:1860:GLU:N	2.51	0.43
2:C:1881:THR:HG23	2:C:1884:MET:CE	2.48	0.43
2:C:1913:THR:HA	2:C:1943:LYS:NZ	2.33	0.43
1:F:2056:LEU:HD11	1:F:2093:LEU:CD2	2.48	0.43
1:F:2164:PRO:O	1:F:2168:THR:HG23	2.17	0.43
2:E:1398:LEU:HD21	2:E:1552:ILE:CG1	2.47	0.43
2:E:1784:LEU:O	2:E:1788:PHE:N	2.44	0.43
2:E:1843:THR:O	2:E:1847:GLN:HG3	2.18	0.43
2:E:1952:PHE:HB3	2:E:2006:TRP:CE3	2.43	0.43
1:H:2104:CYS:SG	1:H:2116:ARG:NH2	2.91	0.43
1:H:2158:GLU:C	1:H:2159:LEU:HD12	2.43	0.43
1:H:2308:PHE:CE1	2:G:639:GLU:HB3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1515:MET:O	2:G:1518:ILE:HG12	2.18	0.43
2:G:2096:TYR:HD1	2:G:2156:LEU:HA	1.82	0.43
1:B:2303:ASP:OD1	2:A:778:ARG:NH2	2.39	0.43
2:A:621:ARG:CG	2:A:622:GLN:HE21	2.32	0.43
2:A:746:ILE:H	2:A:746:ILE:CD1	2.28	0.43
2:A:1021:TYR:CE1	2:A:1028:MET:HE2	2.53	0.43
2:A:1061:VAL:HG13	2:A:1062:GLU:N	2.33	0.43
2:A:1429:TYR:HA	2:A:1504:ILE:HG23	2.00	0.43
2:A:1541:GLY:O	2:A:1542:LEU:HD23	2.18	0.43
2:A:1784:LEU:O	2:A:1788:PHE:N	2.46	0.43
2:A:1934:ASN:O	2:A:1934:ASN:ND2	2.51	0.43
2:A:2132:VAL:HG12	2:A:2170:LEU:HD23	2.01	0.43
2:C:1085:GLU:HA	2:C:1088:LYS:HE2	2.00	0.43
2:C:1171:MET:HG3	2:C:1328:MET:HE3	2.01	0.43
2:C:1249:ILE:CD1	2:C:1320:ILE:HD11	2.47	0.43
2:C:2167:ASP:O	2:C:2168:LEU:HD12	2.17	0.43
2:E:2020:PRO:HA	2:E:2023:VAL:HG22	2.00	0.43
2:E:2075:PRO:O	2:E:2180:VAL:HG11	2.18	0.43
2:G:593:LYS:HE2	2:G:616:GLU:OE2	2.18	0.43
2:G:1556:ILE:O	2:G:1556:ILE:HG22	2.17	0.43
2:G:1862:THR:O	2:G:1863:VAL:HG22	2.17	0.43
1:B:2151:ILE:HG23	1:B:2188:VAL:HB	2.00	0.43
2:A:1085:GLU:O	2:A:1089:LEU:HB2	2.17	0.43
2:A:1154:ALA:O	2:A:1158:LYS:HG3	2.18	0.43
2:A:1837:LEU:HD23	2:A:1837:LEU:O	2.17	0.43
1:D:2284:GLU:HG3	1:D:2291:PHE:CD1	2.54	0.43
2:C:1037:ALA:CB	2:C:1047:MET:HG3	2.47	0.43
2:C:1372:LEU:C	2:C:1372:LEU:HD23	2.43	0.43
2:C:1843:THR:O	2:C:1847:GLN:HG3	2.18	0.43
1:F:2086:LYS:CE	1:F:2278:PRO:HG2	2.44	0.43
1:F:2119:VAL:HG11	1:F:2137:PRO:HG3	2.00	0.43
1:F:2183:GLN:HG2	2:G:1205:LEU:C	2.44	0.43
2:E:1398:LEU:HD21	2:E:1552:ILE:CD1	2.48	0.43
2:E:1973:LEU:HD12	2:E:1973:LEU:C	2.44	0.43
2:E:2127:ASN:ND2	2:E:2145:ARG:HE	2.15	0.43
2:E:2141:LEU:HB3	2:E:2159:VAL:HG22	2.00	0.43
2:G:540:ALA:HA	2:G:695:ARG:HH22	1.83	0.43
2:G:1249:ILE:HD11	2:G:1320:ILE:CD1	2.39	0.43
2:G:1251:LEU:HB3	2:G:1304:VAL:HG13	2.00	0.43
2:G:1784:LEU:HB2	2:G:1785:PRO:HD3	2.01	0.43
2:G:1792:ILE:O	2:G:1865:PRO:HG3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2101:LEU:HD21	1:B:2151:ILE:CD1	2.45	0.43
1:B:2250:ASP:HB3	1:B:2272:HIS:HB3	1.99	0.43
2:A:577:GLY:O	2:A:578:GLU:HG2	2.18	0.43
2:A:971:GLY:HA3	2:A:1002:ARG:NH1	2.33	0.43
2:A:1401:ALA:O	2:A:1544:VAL:HA	2.18	0.43
2:A:1465:THR:HG23	2:A:1466:THR:HG23	1.99	0.43
2:A:2075:PRO:HG2	2:A:2180:VAL:HG21	2.01	0.43
2:C:541:PHE:C	2:C:567:ARG:HD2	2.43	0.43
2:C:729:ARG:HH12	2:C:906:ALA:HB3	1.82	0.43
2:C:1396:ASN:CG	2:C:1530:ARG:HH12	2.26	0.43
2:C:1468:LEU:HD21	2:C:1494:ARG:NH1	2.34	0.43
2:C:1535:LEU:C	2:C:1535:LEU:HD12	2.44	0.43
2:C:1860:GLU:HG2	2:C:1862:THR:HB	2.00	0.43
2:C:1913:THR:HA	2:C:1943:LYS:HZ1	1.84	0.43
2:C:2032:ASN:N	2:C:2036:ASP:OD1	2.50	0.43
2:C:2156:LEU:HD12	2:C:2156:LEU:N	2.33	0.43
2:E:1007:HIS:O	2:E:1011:MET:HG2	2.18	0.43
2:E:1129:ASP:O	2:E:1133:VAL:HG23	2.17	0.43
2:G:1273:LEU:HD23	2:G:1285:HIS:CB	2.48	0.43
2:G:1382:ILE:O	2:G:1386:THR:HG23	2.18	0.43
2:G:1425:GLY:HA2	2:G:1501:GLU:OE1	2.18	0.43
2:G:1766:TYR:O	2:G:1770:LEU:HD13	2.18	0.43
2:G:1914:ARG:NE	2:G:1960:ASP:HB3	2.33	0.43
2:A:803:LYS:HE2	2:A:803:LYS:CA	2.45	0.43
2:A:1441:PHE:CD1	2:A:1459:LYS:HB2	2.53	0.43
2:A:1718:THR:O	2:A:1731:TYR:N	2.49	0.43
2:A:1815:ARG:NH1	2:A:1818:ALA:HB3	2.33	0.43
1:D:2053:THR:HG22	1:D:2093:LEU:CD2	2.49	0.43
1:D:2177:HIS:HB2	1:D:2180:TRP:HB2	2.00	0.43
2:C:541:PHE:O	2:C:567:ARG:HD2	2.18	0.43
2:C:1188:ILE:HG21	2:C:1219:ALA:HB2	1.99	0.43
2:C:1274:VAL:HA	2:C:1319:PHE:O	2.18	0.43
2:C:1387:PHE:HB2	2:C:1391:TYR:OH	2.18	0.43
2:C:1441:PHE:HB2	2:C:1478:LEU:HD12	1.99	0.43
1:F:2308:PHE:O	2:E:640:LYS:HD3	2.18	0.43
2:E:777:SER:HB3	2:E:780:GLU:HB3	2.00	0.43
2:E:1090:LEU:CD2	2:E:1098:LYS:HD3	2.48	0.43
2:E:1511:LEU:C	2:E:1511:LEU:HD12	2.43	0.43
2:E:1891:HIS:O	2:E:1892:LYS:HB2	2.18	0.43
1:H:2284:GLU:HG2	2:G:1174:THR:HG23	2.01	0.43
2:G:590:ALA:O	2:G:638:PRO:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:MET:HG3	2:G:920:ILE:HG21	2.00	0.43
2:G:1925:TYR:O	2:G:1928:VAL:HG22	2.19	0.43
1:B:2106:PRO:HG3	1:B:2114:GLU:CD	2.44	0.43
2:A:593:LYS:O	2:A:596:VAL:HG22	2.18	0.43
2:A:660:ILE:CD1	2:A:696:ILE:HG12	2.46	0.43
2:A:940:GLU:OE2	2:A:986:TYR:OH	2.35	0.43
2:A:1241:PRO:CG	2:A:1821:SER:HB2	2.49	0.43
2:A:1460:LEU:HD12	2:A:1467:ASP:CG	2.44	0.43
2:A:1533:THR:CG2	2:A:1535:LEU:HG	2.48	0.43
2:A:1610:PRO:O	2:A:1710:ALA:HB1	2.19	0.43
2:A:1872:ALA:HB2	2:A:1882:MET:HG3	2.01	0.43
1:D:2182:ASN:OD1	1:D:2183:GLN:N	2.48	0.43
1:D:2306:ASP:O	1:D:2307:ASN:HB2	2.18	0.43
2:C:541:PHE:HB3	2:C:542:LEU:HD22	2.00	0.43
2:C:684:ILE:HD12	2:C:684:ILE:N	2.34	0.43
2:C:851:PHE:CD1	2:C:871:LEU:HD12	2.52	0.43
2:C:1430:ILE:HD12	2:C:1503:PHE:CZ	2.53	0.43
2:C:1559:LYS:O	2:C:1563:ILE:HG12	2.18	0.43
2:C:1596:LYS:HB3	2:C:1597:PRO:CD	2.45	0.43
2:C:2011:PRO:O	2:C:2014:GLN:HG2	2.18	0.43
2:C:2130:LEU:HD22	2:C:2143:ILE:HG21	2.01	0.43
2:C:2131:VAL:HG12	2:C:2132:VAL:N	2.33	0.43
1:F:2077:TYR:HA	1:F:2113:LYS:O	2.19	0.43
1:F:2124:ILE:CG2	1:F:2131:GLN:HB2	2.48	0.43
2:E:832:PHE:C	2:E:856:ILE:HD11	2.44	0.43
2:E:1985:SER:HB3	2:E:1988:HIS:CD2	2.53	0.43
2:E:2015:ILE:O	2:E:2018:PHE:HB2	2.18	0.43
2:E:2026:ALA:O	2:E:2031:ILE:HB	2.19	0.43
1:H:2065:VAL:CG2	1:H:2238:LEU:HD13	2.47	0.43
1:H:2084:LEU:O	1:H:2088:ILE:HG13	2.18	0.43
2:G:1084:LEU:H	2:G:1084:LEU:CD2	2.31	0.43
2:G:1354:LEU:HD23	2:G:1385:GLN:HB2	2.01	0.43
1:B:2253:LYS:HD3	1:B:2253:LYS:HA	1.74	0.43
2:A:1428:VAL:HG22	2:A:1477:ILE:CD1	2.47	0.43
2:A:2062:GLN:O	2:A:2066:ALA:N	2.51	0.43
1:D:2170:HIS:O	1:D:2174:VAL:HG23	2.19	0.43
2:C:530:ASN:ND2	2:C:532:ILE:HG22	2.34	0.43
2:C:729:ARG:HH22	2:C:906:ALA:CB	2.32	0.43
2:C:866:ALA:O	2:C:905:ARG:NH1	2.49	0.43
2:C:948:VAL:HG12	2:C:1013:LEU:HD21	2.01	0.43
2:C:1837:LEU:O	2:C:1841:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2045:GLU:HB3	2:C:2046:ASN:H	1.55	0.43
2:E:1746:PRO:HB3	2:E:1751:ARG:O	2.19	0.43
2:E:1912:GLN:O	2:E:1943:LYS:NZ	2.50	0.43
2:E:2115:VAL:HG13	2:E:2177:TYR:CE2	2.53	0.43
1:H:2163:SER:O	1:H:2167:VAL:HG23	2.19	0.43
2:G:578:GLU:HG3	2:G:579:ILE:N	2.32	0.43
2:G:1438:ASP:HB3	2:G:1459:LYS:HE3	2.00	0.43
2:G:1670:GLY:O	2:G:1696:LEU:HA	2.18	0.43
2:G:1889:LEU:HD12	2:G:1889:LEU:H	1.84	0.43
2:G:1989:LEU:HB3	2:G:2139:THR:HG21	2.01	0.43
2:G:2012:LEU:HD22	2:G:2012:LEU:N	2.33	0.43
1:B:2091:ALA:HB2	1:B:2153:THR:HG21	2.00	0.43
1:B:2164:PRO:O	1:B:2168:THR:HG23	2.19	0.43
1:B:2306:ASP:O	1:B:2307:ASN:HB2	2.19	0.43
2:A:685:ARG:O	2:A:689:GLN:HG2	2.19	0.43
2:A:995:ASP:OD2	2:A:1000:GLN:N	2.51	0.43
2:A:1533:THR:HG22	2:A:1535:LEU:HG	2.01	0.43
2:A:1758:LEU:HD12	2:A:1758:LEU:O	2.19	0.43
2:A:1967:VAL:CG1	2:A:1971:LYS:HE3	2.49	0.43
2:A:2010:SER:OG	2:A:2012:LEU:HD23	2.18	0.43
2:A:2016:PRO:HG3	2:A:2116:HIS:CE1	2.54	0.43
2:C:686:ARG:HH21	2:C:959:ASN:HA	1.84	0.43
2:C:862:THR:OG1	2:C:863:ALA:N	2.48	0.43
2:C:1106:ALA:O	2:C:1110:VAL:HG23	2.18	0.43
2:C:1774:LEU:HD12	2:C:1775:PRO:CD	2.49	0.43
2:C:1854:ILE:HB	2:C:1863:VAL:HG11	2.01	0.43
2:C:2031:ILE:HA	2:C:2036:ASP:OD1	2.19	0.43
1:F:2150:LEU:HD12	1:F:2150:LEU:O	2.19	0.43
1:F:2276:ASP:OD1	2:E:1333:ARG:NH1	2.51	0.43
1:F:2302:VAL:HG22	2:E:1131:VAL:HG21	2.00	0.43
2:E:975:LEU:O	2:E:979:MET:HG3	2.19	0.43
2:E:2156:LEU:HD12	2:E:2156:LEU:O	2.19	0.43
1:H:2081:LYS:HE2	1:H:2240:ASP:OD1	2.19	0.43
2:G:735:GLN:OE1	2:G:933:LEU:HB3	2.19	0.43
2:G:1187:GLU:HG2	2:G:1188:ILE:N	2.34	0.43
2:G:1982:ILE:CG2	2:G:1991:ALA:HB2	2.49	0.43
1:B:2266:ILE:O	1:B:2266:ILE:HG12	2.19	0.43
2:A:898:ASP:O	2:A:902:MET:HG3	2.18	0.43
2:A:2042:ASN:OD1	2:A:2043:PRO:HD2	2.19	0.43
2:A:2084:ASP:OD1	2:A:2084:ASP:N	2.52	0.43
2:A:2130:LEU:O	2:A:2143:ILE:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2162:SER:HA	2:A:2163:PRO:HD3	1.82	0.43
2:A:2169:LYS:NZ	2:A:2185:SER:HB3	2.33	0.43
2:C:556:GLY:HA2	3:C:2201:ACT:OXT	2.18	0.43
2:C:657:VAL:HG23	2:C:657:VAL:O	2.19	0.43
2:C:976:PHE:HA	2:C:979:MET:HE2	2.01	0.43
2:C:1063:LEU:HD23	2:C:1163:MET:HE3	2.00	0.43
2:C:1481:PRO:HB2	2:C:1518:ILE:CG2	2.45	0.43
1:F:2163:SER:O	1:F:2167:VAL:HG23	2.18	0.43
1:F:2296:GLU:OE2	2:E:1120:LYS:NZ	2.36	0.43
2:E:778:ARG:NH1	2:E:838:GLY:HA2	2.33	0.43
2:E:856:ILE:O	2:E:858:VAL:N	2.51	0.43
2:E:961:ARG:HB3	2:E:961:ARG:CZ	2.49	0.43
2:E:1418:HIS:HA	2:E:1422:LYS:HG3	1.99	0.43
2:E:1600:LEU:HA	2:E:1603:THR:OG1	2.19	0.43
2:E:1998:SER:O	2:E:2002:VAL:HG12	2.19	0.43
2:G:565:MET:CE	2:G:633:VAL:HG21	2.47	0.43
2:G:823:ASP:OD1	2:G:824:LEU:HG	2.19	0.43
2:G:1497:VAL:HG13	2:G:1498:GLN:OE1	2.19	0.43
2:G:1563:ILE:C	2:G:1563:ILE:HD12	2.44	0.43
2:G:1886:LEU:HG	2:G:1887:LEU:HD22	2.00	0.43
2:G:2040:GLN:CD	2:G:2045:GLU:HB2	2.44	0.43
2:G:2058:LEU:HD23	2:G:2062:GLN:HE22	1.84	0.43
2:G:2120:TYR:HA	2:G:2121:PRO:HD3	1.89	0.43
1:B:2160:PRO:O	1:B:2233:ARG:NH2	2.52	0.43
1:B:2210:LYS:NZ	1:B:2210:LYS:HB3	2.34	0.43
2:A:776:HIS:NE2	2:A:894:LEU:HD11	2.33	0.43
2:A:885:SER:O	2:A:889:GLY:N	2.51	0.43
2:A:1101:ILE:HD12	2:A:1101:ILE:O	2.19	0.43
2:A:1181:TYR:HA	2:A:1182:PRO:HD3	1.88	0.43
2:A:1647:ASP:OD1	2:A:1648:GLN:HG2	2.19	0.43
2:A:1792:ILE:HD13	2:A:1797:ILE:HB	2.01	0.43
2:A:1975:LEU:CD1	2:A:1997:MET:HG2	2.34	0.43
2:A:2185:SER:O	2:A:2186:PHE:HB2	2.19	0.43
2:C:452:LEU:HD23	2:C:452:LEU:C	2.44	0.43
2:C:851:PHE:HZ	2:C:873:ALA:HB1	1.82	0.43
2:C:1545:SER:OG	2:C:1568:PRO:HB3	2.18	0.43
2:C:2063:LEU:C	2:C:2063:LEU:HD12	2.44	0.43
2:C:2090:ARG:HH22	2:C:2165:LYS:HA	1.84	0.43
1:F:2275:LEU:HD21	2:E:1317:ASN:ND2	2.34	0.43
2:E:737:PHE:CE2	2:E:930:LEU:HD23	2.54	0.43
2:E:833:GLY:CA	2:E:856:ILE:HD11	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1094:PRO:HG2	2:E:1172:TRP:CZ2	2.54	0.43
2:E:1102:GLU:OE1	2:E:1102:GLU:N	2.51	0.43
2:E:1179:ARG:NE	2:E:1193:GLU:OE1	2.45	0.43
2:E:1315:PRO:HA	2:E:1316:PRO:HD3	1.89	0.43
2:E:1715:VAL:HB	2:E:1756:LEU:HD12	2.01	0.43
2:E:1804:ILE:HG23	2:E:1837:LEU:CD1	2.49	0.43
2:E:2083:VAL:O	2:E:2086:PRO:HG3	2.18	0.43
2:G:877:ILE:HA	2:G:918:ILE:O	2.19	0.43
2:G:993:GLU:O	2:G:994:ASP:CB	2.67	0.43
2:G:1107:LYS:O	2:G:1111:LEU:HB2	2.19	0.43
2:G:1149:LEU:HD21	2:G:1271:TRP:CZ3	2.54	0.43
2:G:1283:LEU:HD12	2:G:1283:LEU:H	1.83	0.43
2:G:1451:LEU:O	2:G:1452:ARG:C	2.62	0.43
2:G:1464:THR:HA	2:G:1467:ASP:HB2	2.00	0.43
2:G:1509:HIS:HB3	2:G:1543:SER:OG	2.19	0.43
2:G:1618:ARG:NH2	2:G:1914:ARG:HH21	2.16	0.43
2:G:1678:GLN:OE1	2:G:1678:GLN:N	2.48	0.43
2:G:1682:ARG:HA	2:G:1685:LYS:HB3	2.00	0.43
2:G:2054:LYS:HG3	2:G:2054:LYS:O	2.18	0.43
1:B:2302:VAL:HG21	2:A:1127:MET:HB3	2.01	0.42
2:A:1948:VAL:HG21	2:A:1971:LYS:HZ2	1.84	0.42
2:A:2056:LEU:HD22	2:A:2056:LEU:N	2.34	0.42
2:A:2133:GLY:O	2:A:2168:LEU:HB2	2.19	0.42
2:C:1418:HIS:HD1	2:C:1419:TRP:CD1	2.37	0.42
2:C:1591:MET:HE1	2:C:1616:PRO:HG2	2.00	0.42
1:F:2051:ILE:HG21	2:E:1099:GLU:HG2	2.01	0.42
1:F:2309:ALA:HB1	2:E:618:THR:CA	2.49	0.42
2:E:541:PHE:O	2:E:567:ARG:HD2	2.19	0.42
2:E:1840:LEU:HD23	2:E:1840:LEU:C	2.44	0.42
2:E:2182:GLN:C	2:E:2184:PRO:HD3	2.44	0.42
1:H:2211:TRP:CZ2	1:H:2226:PHE:HB2	2.54	0.42
2:G:564:THR:HG21	2:G:697:ILE:HG13	2.01	0.42
2:G:877:ILE:HG12	2:G:918:ILE:HB	2.01	0.42
2:G:926:ILE:HD12	2:G:927:PRO:N	2.34	0.42
2:G:1058:MET:CE	2:G:1063:LEU:HD13	2.44	0.42
2:G:1171:MET:CE	2:G:1328:MET:HB3	2.49	0.42
2:G:1792:ILE:HG22	2:G:1865:PRO:CG	2.49	0.42
2:G:2025:VAL:HA	2:G:2028:LYS:HB2	2.00	0.42
2:A:760:VAL:HG21	2:A:858:VAL:HG21	2.01	0.42
2:A:1249:ILE:HD11	2:A:1320:ILE:HD11	2.01	0.42
2:A:1351:THR:CG2	2:A:1565:ASN:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1460:LEU:HB2	2:A:1479:ALA:CB	2.44	0.42
2:A:1615:VAL:CG2	2:A:1621:THR:HG22	2.49	0.42
2:A:1914:ARG:NE	2:A:1914:ARG:HA	2.34	0.42
2:A:1983:LEU:CB	2:A:2140:LEU:HD21	2.46	0.42
2:A:2076:ASP:O	2:A:2077:ILE:HG23	2.19	0.42
2:A:2143:ILE:HG12	2:A:2144:LYS:N	2.34	0.42
1:D:2101:LEU:HD22	1:D:2115:ILE:CG2	2.49	0.42
1:D:2289:ILE:HA	1:D:2292:THR:HG23	2.00	0.42
2:C:834:ILE:HG23	2:C:839:MET:HE1	2.01	0.42
2:C:1507:ASP:N	2:C:1542:LEU:O	2.52	0.42
2:C:1581:SER:HB2	2:C:1760:ALA:HA	2.00	0.42
2:C:1586:HIS:CE1	2:C:1588:PRO:HG2	2.54	0.42
1:F:2149:GLY:HA3	1:F:2186:LEU:O	2.19	0.42
2:E:585:LYS:HG2	2:E:632:GLN:HA	2.01	0.42
2:E:1016:SER:CB	2:E:1018:LEU:HD13	2.49	0.42
2:E:1812:PHE:O	2:E:1816:LEU:HB2	2.17	0.42
2:E:1981:ASP:O	2:E:1984:SER:OG	2.27	0.42
2:E:2141:LEU:CD2	2:E:2168:LEU:HD21	2.49	0.42
2:G:585:LYS:O	2:G:657:VAL:HA	2.20	0.42
2:G:1404:GLY:CA	2:G:1744:LEU:HD21	2.50	0.42
2:G:2038:MET:HE3	2:G:2070:THR:O	2.19	0.42
1:B:2170:HIS:HE1	1:B:2186:LEU:HA	1.83	0.42
2:A:1067:PHE:CD1	2:A:1140:ILE:HG21	2.55	0.42
2:A:1107:LYS:HE3	2:A:1126:LEU:CD1	2.49	0.42
2:A:1820:PRO:HB3	2:A:1825:LEU:HD23	2.01	0.42
2:A:2002:VAL:HG21	2:A:2176:SER:HA	2.00	0.42
2:C:677:GLU:OE2	2:C:941:SER:HB2	2.19	0.42
2:C:983:PRO:HA	2:C:988:VAL:HG23	2.01	0.42
2:C:1103:GLU:HB3	2:C:1104:PRO:HD2	2.00	0.42
2:C:1223:VAL:O	2:C:1227:VAL:HG12	2.19	0.42
2:C:1254:THR:HG22	2:C:1301:GLU:HA	2.02	0.42
2:C:1677:SER:O	2:C:1681:LYS:HG3	2.19	0.42
2:C:1948:VAL:HG12	2:C:1952:PHE:CZ	2.54	0.42
2:C:1960:ASP:C	2:C:1962:ALA:H	2.26	0.42
2:E:521:ILE:H	2:E:521:ILE:HG13	1.49	0.42
2:E:593:LYS:O	2:E:596:VAL:HG22	2.19	0.42
2:E:657:VAL:O	2:E:658:ARG:HG3	2.20	0.42
2:E:674:PRO:HB2	2:E:946:LYS:CD	2.33	0.42
2:E:778:ARG:HH21	2:E:837:ALA:HB3	1.85	0.42
2:E:1712:LEU:HD13	2:E:1753:ARG:HB2	2.01	0.42
2:E:1714:VAL:HA	2:E:1755:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2115:VAL:HG12	2:E:2116:HIS:N	2.33	0.42
2:E:2127:ASN:HB2	2:E:2175:ASP:OD2	2.19	0.42
2:E:2154:VAL:HG12	2:E:2155:LYS:N	2.33	0.42
1:H:2190:VAL:HG13	1:H:2197:VAL:HG11	2.01	0.42
2:G:903:LEU:CD2	2:G:933:LEU:HD13	2.49	0.42
2:G:1103:GLU:CB	2:G:1104:PRO:HD2	2.46	0.42
2:G:1185:PRO:HG2	2:G:1188:ILE:CG1	2.48	0.42
2:G:1219:ALA:O	2:G:1223:VAL:HG23	2.19	0.42
2:G:1361:VAL:HG23	2:G:1377:GLN:O	2.19	0.42
2:G:1851:ALA:HB1	2:G:1883:GLU:OE1	2.19	0.42
2:G:2138:LYS:O	2:G:2138:LYS:NZ	2.52	0.42
1:B:2085:LYS:O	1:B:2089:THR:HG23	2.19	0.42
1:B:2146:GLU:O	1:B:2148:LEU:HD13	2.19	0.42
2:A:535:LYS:HB3	2:A:724:PHE:HZ	1.84	0.42
2:A:608:GLU:N	2:A:609:PRO:CD	2.79	0.42
2:A:833:GLY:C	2:A:859:LEU:HD12	2.44	0.42
2:A:943:LEU:O	2:A:947:LEU:N	2.52	0.42
2:A:1136:SER:O	2:A:1140:ILE:HG12	2.19	0.42
2:A:1514:GLN:HG3	2:A:1515:MET:N	2.34	0.42
2:A:1519:TYR:O	2:A:1523:VAL:HG23	2.19	0.42
2:A:1948:VAL:O	2:A:1951:HIS:HB3	2.20	0.42
1:D:2137:PRO:CB	1:D:2273:VAL:HG21	2.49	0.42
1:D:2304:ARG:NH2	2:C:1135:GLN:OE1	2.50	0.42
2:C:1458:VAL:O	2:C:1477:ILE:HA	2.19	0.42
1:F:2217:ASP:N	1:F:2218:PRO:HD3	2.34	0.42
2:E:541:PHE:C	2:E:542:LEU:HD13	2.44	0.42
2:E:587:VAL:HB	2:E:660:ILE:HG22	2.00	0.42
2:E:1062:GLU:O	2:E:1066:VAL:HG23	2.20	0.42
2:E:1441:PHE:CB	2:E:1478:LEU:HD12	2.43	0.42
1:H:2181:LYS:C	1:H:2183:GLN:H	2.27	0.42
2:G:670:ASP:OD1	2:G:671:ASP:N	2.52	0.42
2:G:1372:LEU:C	2:G:1374:PRO:HD3	2.44	0.42
2:G:1720:PHE:CZ	2:G:1729:ILE:HD11	2.54	0.42
2:G:1899:LEU:C	2:G:1899:LEU:HD12	2.44	0.42
2:G:2025:VAL:HG21	2:G:2056:LEU:HD22	2.01	0.42
2:C:1354:LEU:CB	2:C:1356:LEU:HD21	2.49	0.42
2:C:1763:ARG:HH22	2:C:1767:LYS:NZ	2.18	0.42
2:C:1920:ILE:O	2:C:1924:ILE:HG23	2.19	0.42
2:E:684:ILE:HG13	2:E:972:TYR:CD2	2.54	0.42
2:E:1471:LEU:O	2:E:1471:LEU:HD23	2.19	0.42
2:E:1614:PHE:HA	2:E:1698:ALA:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1965:GLN:O	2:E:1966:GLU:HB2	2.20	0.42
2:E:2034:ILE:C	2:E:2034:ILE:HD12	2.44	0.42
1:H:2156:GLY:H	1:H:2192:PHE:HB2	1.84	0.42
2:G:633:VAL:HG13	2:G:633:VAL:O	2.20	0.42
2:G:1274:VAL:HG21	2:G:1306:PHE:CE2	2.54	0.42
2:G:1959:ILE:H	2:G:1959:ILE:CD1	2.22	0.42
2:A:589:ILE:HD12	2:A:662:ILE:HD12	2.00	0.42
2:A:646:ARG:HD3	2:A:1038:SER:O	2.19	0.42
2:A:1185:PRO:O	2:A:1188:ILE:HG12	2.19	0.42
2:A:1360:PRO:HG2	2:A:1362:SER:OG	2.19	0.42
2:A:1505:ALA:HB1	2:A:1519:TYR:OH	2.19	0.42
2:A:1894:LYS:HB3	2:A:1896:ARG:HH11	1.84	0.42
2:A:2090:ARG:HG3	2:A:2164:GLY:N	2.34	0.42
2:C:517:GLU:HA	2:C:520:ARG:HD3	2.02	0.42
2:C:926:ILE:HG22	2:C:927:PRO:N	2.35	0.42
2:C:1045:GLU:HG2	2:C:1046:SER:N	2.34	0.42
2:C:1163:MET:O	2:C:1166:MET:HB3	2.19	0.42
2:C:1229:LYS:NZ	2:C:1260:ASP:OD2	2.34	0.42
2:C:1323:ILE:HG12	2:C:1331:GLU:HG3	2.02	0.42
2:C:1429:TYR:CE1	2:C:1506:ASP:HB2	2.54	0.42
2:C:1737:LEU:CD1	2:C:1774:LEU:HD22	2.49	0.42
1:F:2206:PRO:O	1:F:2209:TYR:HB3	2.19	0.42
1:F:2294:PHE:HE2	2:E:1119:LEU:HD21	1.85	0.42
2:E:1406:GLY:O	2:E:1409:VAL:HG22	2.18	0.42
2:E:1502:LEU:C	2:E:1502:LEU:HD23	2.44	0.42
2:E:1886:LEU:C	2:E:1886:LEU:HD12	2.44	0.42
2:E:1895:LEU:HD12	2:E:1895:LEU:N	2.34	0.42
2:E:1928:VAL:O	2:E:1931:LYS:NZ	2.52	0.42
2:E:2058:LEU:HB2	2:E:2063:LEU:CD2	2.50	0.42
1:H:2183:GLN:O	1:H:2183:GLN:NE2	2.53	0.42
2:G:464:VAL:HG22	2:G:465:PHE:N	2.34	0.42
2:G:614:VAL:HG22	2:G:633:VAL:HG11	1.98	0.42
2:G:617:LEU:CD1	2:G:634:ILE:HD13	2.50	0.42
2:G:812:LEU:HD22	2:G:855:HIS:CE1	2.55	0.42
2:G:1791:GLU:HB3	2:G:1797:ILE:HB	2.00	0.42
2:G:2015:ILE:HG23	2:G:2016:PRO:HD2	2.02	0.42
1:B:2086:LYS:O	1:B:2090:ILE:HG13	2.19	0.42
1:B:2219:ASN:O	1:B:2220:VAL:HB	2.20	0.42
2:A:1146:GLU:O	2:A:1150:LYS:HG2	2.20	0.42
2:A:1230:PHE:CD1	2:A:1231:PRO:HD2	2.55	0.42
2:A:1440:ARG:HE	2:A:1440:ARG:CA	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1638:GLU:HG2	2:A:1639:ASP:OD1	2.19	0.42
2:A:1980:VAL:O	2:A:1984:SER:HB2	2.19	0.42
2:A:2054:LYS:HB2	2:A:2054:LYS:HZ2	1.81	0.42
2:A:2115:VAL:HG12	2:A:2126:GLU:HG2	2.01	0.42
2:C:1308:VAL:HA	2:C:1309:PRO:HD3	1.92	0.42
2:C:1437:VAL:O	2:C:1441:PHE:HB2	2.20	0.42
2:C:1854:ILE:CB	2:C:1863:VAL:HG13	2.49	0.42
2:C:1971:LYS:O	2:C:1975:LEU:N	2.47	0.42
2:C:2078:THR:CB	2:C:2104:GLU:H	2.32	0.42
2:E:800:GLN:NE2	2:E:800:GLN:O	2.53	0.42
2:E:1185:PRO:O	2:E:1188:ILE:HG12	2.20	0.42
2:E:1441:PHE:O	2:E:1445:GLN:HB3	2.19	0.42
2:E:1548:ASN:O	2:E:1548:ASN:ND2	2.53	0.42
2:E:1865:PRO:HG3	2:E:1870:MET:HE2	2.01	0.42
2:E:2046:ASN:C	2:E:2048:ASN:N	2.76	0.42
2:E:2170:LEU:HD23	2:E:2170:LEU:C	2.44	0.42
2:G:522:PRO:HG3	2:G:566:LEU:HD21	2.02	0.42
2:G:976:PHE:O	2:G:980:LEU:HG	2.20	0.42
2:G:1033:LEU:CD1	2:G:1047:MET:HE3	2.48	0.42
2:G:1171:MET:HE3	2:G:1328:MET:HB3	2.02	0.42
2:G:1422:LYS:HD2	2:G:1423:ASP:N	2.34	0.42
2:G:1427:ALA:N	2:G:1475:ASP:O	2.45	0.42
2:G:1880:MET:HA	2:G:1883:GLU:HB3	2.01	0.42
1:B:2066:ALA:HA	1:B:2067:PRO:HD3	1.79	0.42
1:B:2284:GLU:HG3	1:B:2291:PHE:CE1	2.54	0.42
2:A:881:THR:OG1	2:A:921:THR:HB	2.20	0.42
2:A:1348:PRO:HA	2:A:1349:PRO:HD3	1.89	0.42
2:A:2044:GLU:H	2:A:2044:GLU:HG2	1.64	0.42
2:A:2077:ILE:HG22	2:A:2103:ARG:CA	2.37	0.42
1:D:2091:ALA:HB2	1:D:2097:VAL:HG21	2.01	0.42
2:C:1314:MET:HE3	2:C:1343:LEU:CD1	2.49	0.42
2:C:1491:TRP:CG	2:C:1529:ILE:HD12	2.55	0.42
2:C:1535:LEU:HD12	2:C:1535:LEU:O	2.20	0.42
2:E:542:LEU:HD22	2:E:542:LEU:N	2.34	0.42
2:E:590:ALA:HB3	2:E:596:VAL:HG12	2.01	0.42
2:E:823:ASP:O	2:E:824:LEU:HB3	2.19	0.42
2:E:1032:GLU:O	2:E:1036:ILE:HG13	2.19	0.42
2:E:1504:ILE:HG12	2:E:1540:VAL:HB	2.00	0.42
2:E:1834:SER:O	2:E:1838:SER:OG	2.30	0.42
2:G:634:ILE:HD12	2:G:634:ILE:O	2.20	0.42
2:G:1675:ALA:HA	2:G:1963:LYS:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1784:LEU:HD23	2:G:1784:LEU:HA	1.91	0.42
2:G:1954:ARG:HH22	2:G:2013:LYS:HB2	1.84	0.42
2:G:1983:LEU:HD12	2:G:1984:SER:N	2.35	0.42
2:G:2138:LYS:HA	2:G:2138:LYS:NZ	2.31	0.42
2:G:2140:LEU:HD22	2:G:2140:LEU:O	2.20	0.42
1:B:2181:LYS:O	1:B:2182:ASN:HB2	2.20	0.42
1:B:2300:ILE:CG2	1:B:2302:VAL:H	2.32	0.42
2:A:687:THR:HG23	2:A:693:PRO:HA	2.02	0.42
2:A:1408:THR:HB	2:A:1440:ARG:NH2	2.34	0.42
2:A:1567:SER:O	2:A:1570:VAL:HG23	2.19	0.42
2:A:1638:GLU:HG2	2:A:1639:ASP:N	2.35	0.42
2:A:2016:PRO:C	2:A:2018:PHE:H	2.28	0.42
1:D:2098:ALA:HA	1:D:2151:ILE:O	2.19	0.42
2:C:484:THR:CG2	2:C:495:HIS:HB2	2.50	0.42
2:C:498:PRO:HB3	2:C:733:LEU:C	2.45	0.42
2:C:651:ILE:HA	2:C:654:THR:OG1	2.20	0.42
2:C:976:PHE:CE1	2:C:1002:ARG:HD3	2.54	0.42
2:C:1206:ASP:OD2	2:C:1209:ARG:NE	2.52	0.42
2:C:1310:ILE:HD13	2:C:1318:TYR:OH	2.19	0.42
2:C:2137:THR:HG23	2:C:2138:LYS:N	2.32	0.42
2:E:549:VAL:HG12	2:E:722:PHE:CD2	2.53	0.42
2:E:967:VAL:HG13	2:E:1002:ARG:HB2	2.02	0.42
2:E:1085:GLU:O	2:E:1089:LEU:HB2	2.20	0.42
2:E:1815:ARG:HD2	2:E:1815:ARG:HA	1.83	0.42
2:E:2071:ASN:O	2:E:2072:ASN:HB2	2.20	0.42
1:H:2060:ALA:O	1:H:2063:MET:HE3	2.19	0.42
1:H:2072:VAL:O	1:H:2072:VAL:HG13	2.19	0.42
2:G:521:ILE:HB	2:G:522:PRO:CD	2.50	0.42
2:G:765:GLY:HA2	2:G:799:ASN:O	2.20	0.42
2:G:827:LEU:HG	2:G:832:PHE:HB2	2.02	0.42
2:G:1884:MET:HG3	2:G:1885:PHE:N	2.34	0.42
2:G:1974:SER:O	2:G:1978:ALA:HB2	2.20	0.42
2:A:736:GLU:CG	2:A:918:ILE:HG13	2.50	0.42
2:A:963:ARG:HA	2:A:1028:MET:HE3	2.01	0.42
2:A:1063:LEU:HD23	2:A:1163:MET:CE	2.46	0.42
2:A:1383:GLN:NE2	2:A:1409:VAL:HG21	2.35	0.42
2:A:1586:HIS:ND1	2:A:1589:SER:OG	2.44	0.42
2:A:1642:LEU:CD2	2:A:1646:VAL:HG12	2.49	0.42
2:A:2077:ILE:CG2	2:A:2103:ARG:HG3	2.50	0.42
2:A:2127:ASN:HB2	2:A:2175:ASP:CG	2.44	0.42
2:A:2130:LEU:CD2	2:A:2172:LEU:HD13	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2152:HIS:CE1	1:D:2189:THR:HG22	2.55	0.42
2:C:825:LYS:HE3	2:C:834:ILE:CG2	2.50	0.42
2:C:1129:ASP:O	2:C:1133:VAL:HG23	2.20	0.42
2:C:1180:GLN:NE2	2:C:1328:MET:HB3	2.35	0.42
2:C:1240:GLN:HA	2:C:1241:PRO:HD2	1.93	0.42
2:C:1489:ARG:C	2:C:1794:THR:HG21	2.44	0.42
2:C:1574:PRO:HG2	2:C:1751:ARG:CA	2.49	0.42
2:C:1584:ILE:HG22	2:C:1586:HIS:H	1.84	0.42
2:C:1722:GLU:OE2	2:C:1724:LYS:HB2	2.20	0.42
2:E:580:ASP:CG	2:E:583:ALA:HB2	2.45	0.42
2:E:585:LYS:HZ2	2:E:632:GLN:HA	1.85	0.42
2:E:1060:ASP:OD1	2:E:1060:ASP:N	2.52	0.42
2:E:1314:MET:HA	2:E:1315:PRO:HD2	1.95	0.42
2:E:1336:VAL:HG12	2:E:1338:PHE:CE1	2.55	0.42
2:E:1555:TRP:HA	2:E:1814:ARG:NH2	2.35	0.42
2:E:1615:VAL:CG1	2:E:1616:PRO:HD2	2.50	0.42
2:E:1792:ILE:HD13	2:E:1797:ILE:O	2.20	0.42
2:E:2058:LEU:HB2	2:E:2063:LEU:HD21	2.01	0.42
1:H:2300:ILE:HG21	2:G:1131:VAL:CG2	2.50	0.42
2:G:685:ARG:HD2	2:G:969:TRP:HA	2.02	0.42
2:G:746:ILE:H	2:G:746:ILE:CD1	2.27	0.42
2:G:1504:ILE:HA	2:G:1540:VAL:HG13	2.02	0.42
2:G:1571:ARG:NH2	2:G:1752:SER:OG	2.53	0.42
2:G:2011:PRO:CG	2:G:2012:LEU:HD22	2.46	0.42
2:G:2023:VAL:O	2:G:2026:ALA:HB3	2.19	0.42
1:B:2101:LEU:CD2	1:B:2115:ILE:HD13	2.48	0.41
2:A:549:VAL:HG12	2:A:722:PHE:HB2	2.02	0.41
2:A:1095:ILE:HA	2:A:1096:PRO:HD3	1.93	0.41
2:A:1171:MET:CE	2:A:1328:MET:HB3	2.50	0.41
2:A:1364:LEU:HD12	2:A:1364:LEU:N	2.34	0.41
2:A:1519:TYR:O	2:A:1522:VAL:HG22	2.20	0.41
2:A:2094:PRO:HA	2:A:2159:VAL:HG22	2.02	0.41
1:D:2057:ARG:NH1	2:C:1057:ALA:O	2.53	0.41
2:C:757:TYR:CE1	2:C:792:ALA:HA	2.55	0.41
2:C:1687:LEU:HD12	2:C:1687:LEU:HA	1.88	0.41
2:C:1852:ARG:HB3	2:C:1886:LEU:CD1	2.49	0.41
2:C:2021:GLU:O	2:C:2024:LYS:HB3	2.20	0.41
2:C:2120:TYR:HA	2:C:2121:PRO:HD3	1.94	0.41
1:F:2053:THR:HA	1:F:2093:LEU:HD21	2.01	0.41
1:F:2150:LEU:HD12	1:F:2150:LEU:C	2.44	0.41
2:E:492:GLU:O	2:E:738:ILE:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:674:PRO:HB3	2:E:943:LEU:HD12	2.02	0.41
2:E:827:LEU:HB3	2:E:832:PHE:C	2.44	0.41
2:E:988:VAL:HA	2:E:1001:LYS:HE2	2.02	0.41
2:E:1190:LYS:O	2:E:1194:ARG:HD3	2.20	0.41
2:E:1210:MET:HE1	2:E:1223:VAL:HG12	2.02	0.41
2:E:1594:MET:C	2:E:1597:PRO:HD2	2.44	0.41
2:E:1622:ARG:O	2:E:1625:ALA:HB3	2.19	0.41
2:E:1979:ILE:O	2:E:1983:LEU:HD13	2.20	0.41
1:H:2088:ILE:HD13	1:H:2197:VAL:HG21	2.01	0.41
2:G:1093:VAL:HB	2:G:1113:GLN:OE1	2.19	0.41
2:G:1529:ILE:CD1	2:G:1537:MET:HE1	2.50	0.41
2:G:1596:LYS:N	2:G:1597:PRO:CD	2.82	0.41
1:B:2236:LEU:HD23	1:B:2237:LEU:N	2.35	0.41
1:B:2306:ASP:C	1:B:2308:PHE:H	2.27	0.41
2:A:756:THR:O	2:A:760:VAL:HG12	2.20	0.41
2:C:596:VAL:HB	2:C:635:VAL:HG12	2.01	0.41
2:C:675:VAL:O	2:C:679:ILE:HG13	2.20	0.41
2:C:702:THR:O	2:C:935:GLN:HG3	2.20	0.41
2:C:768:ARG:HH21	2:C:802:LEU:HB3	1.83	0.41
2:C:808:THR:HG23	2:C:809:ARG:N	2.35	0.41
2:C:1908:PHE:CZ	2:C:1967:VAL:HG13	2.55	0.41
1:F:2276:ASP:HA	2:E:1319:PHE:CE1	2.55	0.41
2:E:665:ILE:O	2:E:665:ILE:HG12	2.20	0.41
2:E:926:ILE:O	2:E:930:LEU:HG	2.19	0.41
2:E:1820:PRO:HB2	2:E:1825:LEU:O	2.19	0.41
2:E:1857:ASP:HB3	2:E:1862:THR:CG2	2.50	0.41
2:E:1968:ILE:CA	2:E:1971:LYS:HB3	2.41	0.41
1:H:2093:LEU:HD22	1:H:2093:LEU:N	2.35	0.41
1:H:2146:GLU:O	1:H:2148:LEU:HD13	2.18	0.41
2:G:963:ARG:O	2:G:967:VAL:HG23	2.19	0.41
2:G:1171:MET:HE3	2:G:1328:MET:CB	2.51	0.41
2:G:1591:MET:HA	2:G:1591:MET:CE	2.39	0.41
2:G:1672:TYR:CE2	2:G:1681:LYS:HG2	2.56	0.41
2:G:1796:MET:HA	2:G:1796:MET:CE	2.40	0.41
2:G:1812:PHE:O	2:G:1816:LEU:HB2	2.20	0.41
1:B:2216:LYS:C	1:B:2216:LYS:HD3	2.45	0.41
1:B:2245:PHE:CD2	2:A:1316:PRO:HB3	2.55	0.41
2:A:479:MET:HE2	2:A:480:PRO:HD3	2.01	0.41
2:A:599:GLN:HA	2:A:602:ASN:HB3	2.02	0.41
2:A:926:ILE:CG1	2:A:927:PRO:HD3	2.49	0.41
2:A:1979:ILE:HG22	2:A:1983:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2017:ASN:ND2	2:A:2058:LEU:HD22	2.35	0.41
2:A:2137:THR:HG22	2:A:2139:THR:HG23	2.01	0.41
2:A:2145:ARG:NH2	2:A:2175:ASP:OD2	2.52	0.41
2:C:1682:ARG:HA	2:C:1685:LYS:HE3	2.02	0.41
2:C:2015:ILE:HG12	2:C:2069:PHE:HD2	1.85	0.41
1:F:2217:ASP:N	1:F:2218:PRO:CD	2.82	0.41
1:F:2248:VAL:HB	1:F:2249:PRO:HD2	2.02	0.41
2:E:812:LEU:HD23	2:E:812:LEU:H	1.85	0.41
2:E:1054:ILE:HG22	2:E:1153:TRP:HZ3	1.84	0.41
2:E:1097:VAL:O	2:E:1097:VAL:HG22	2.19	0.41
2:E:1235:ILE:C	2:E:1236:GLN:HG3	2.44	0.41
2:E:1559:LYS:O	2:E:1561:HIS:N	2.51	0.41
2:E:1600:LEU:C	2:E:1600:LEU:HD12	2.45	0.41
2:E:1985:SER:HB3	2:E:1988:HIS:HD2	1.86	0.41
1:H:2220:VAL:O	1:H:2223:PRO:HD3	2.21	0.41
1:H:2253:LYS:HZ2	1:H:2285:GLN:HG3	1.84	0.41
1:H:2301:TRP:HA	2:G:778:ARG:NH1	2.35	0.41
2:G:489:LYS:O	2:G:489:LYS:HG3	2.20	0.41
2:G:1354:LEU:HD13	2:G:1354:LEU:N	2.35	0.41
2:G:1618:ARG:HH11	2:G:1674:GLU:CD	2.27	0.41
2:G:1922:LYS:HD3	2:G:1937:TRP:CZ3	2.56	0.41
2:G:1968:ILE:HD12	2:G:1969:LEU:N	2.35	0.41
2:G:2098:LYS:N	2:G:2155:LYS:HG3	2.35	0.41
2:A:562:MET:HE1	2:A:607:LEU:HD21	2.02	0.41
2:A:1171:MET:HE1	2:A:1180:GLN:HG3	2.01	0.41
2:C:625:LYS:HB2	2:C:650:ASP:CG	2.45	0.41
2:C:894:LEU:HD23	2:C:895:SER:H	1.85	0.41
2:C:983:PRO:O	2:C:988:VAL:HG23	2.21	0.41
2:C:1093:VAL:HB	2:C:1113:GLN:OE1	2.21	0.41
2:C:1219:ALA:HB1	2:C:1223:VAL:CG2	2.50	0.41
2:C:1573:VAL:HG13	2:C:1746:PRO:HB3	2.02	0.41
2:C:1852:ARG:NH1	2:C:1866:LEU:HD21	2.35	0.41
2:C:2034:ILE:H	2:C:2034:ILE:HD12	1.85	0.41
1:F:2301:TRP:CD1	1:F:2301:TRP:C	2.98	0.41
2:E:460:LEU:HD12	2:E:460:LEU:N	2.31	0.41
2:E:500:LYS:NZ	2:E:502:ARG:HG2	2.35	0.41
2:E:1207:PRO:CB	2:E:1208:PRO:HD3	2.49	0.41
2:E:1411:ALA:CB	2:E:1504:ILE:HD13	2.50	0.41
2:E:1501:GLU:O	2:E:1537:MET:HA	2.19	0.41
2:E:1522:VAL:O	2:E:1526:MET:HG2	2.20	0.41
2:E:1777:GLU:OE1	2:E:1815:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1969:LEU:HD21	2:E:2121:PRO:HG2	2.02	0.41
2:E:1983:LEU:HD12	2:E:1991:ALA:HB3	2.02	0.41
1:H:2096:GLN:HG2	1:H:2153:THR:O	2.21	0.41
1:H:2220:VAL:HG13	1:H:2223:PRO:N	2.36	0.41
2:G:633:VAL:O	2:G:633:VAL:HG22	2.21	0.41
2:G:1191:LYS:O	2:G:1195:MET:HG2	2.20	0.41
2:G:1457:ILE:O	2:G:1457:ILE:HG12	2.20	0.41
2:G:1758:LEU:HD12	2:G:1758:LEU:O	2.20	0.41
2:G:1840:LEU:HD23	2:G:1841:VAL:N	2.35	0.41
2:G:1924:ILE:HD12	2:G:1924:ILE:N	2.36	0.41
2:G:1965:GLN:C	2:G:1967:VAL:H	2.28	0.41
2:A:599:GLN:HG2	2:A:603:PHE:CE2	2.55	0.41
2:A:621:ARG:HB3	2:A:623:LEU:HG	2.02	0.41
2:A:1175:MET:HE2	2:A:1179:ARG:HE	1.85	0.41
2:A:1862:THR:HG23	2:A:1862:THR:O	2.20	0.41
2:A:2114:THR:HA	2:A:2125:SER:HA	2.03	0.41
1:D:2146:GLU:HA	1:D:2147:PRO:HD3	1.93	0.41
2:C:834:ILE:HA	2:C:860:VAL:O	2.20	0.41
2:C:974:TYR:CZ	2:C:978:ARG:HD3	2.55	0.41
2:C:1687:LEU:HG	2:C:1692:ALA:HB3	2.01	0.41
2:C:1860:GLU:HG2	2:C:1862:THR:H	1.86	0.41
2:C:1968:ILE:HG22	2:C:2120:TYR:CE2	2.55	0.41
1:F:2263:PHE:HA	1:F:2266:ILE:HG22	2.01	0.41
2:E:526:THR:OG1	2:E:528:THR:O	2.38	0.41
2:E:771:MET:HE1	2:E:877:ILE:HD11	2.01	0.41
2:E:988:VAL:O	2:E:990:ALA:N	2.53	0.41
2:E:1804:ILE:HG23	2:E:1837:LEU:HD11	2.03	0.41
2:E:2017:ASN:O	2:E:2058:LEU:HD11	2.21	0.41
2:E:2053:VAL:O	2:E:2053:VAL:HG12	2.20	0.41
2:G:673:GLY:N	2:G:674:PRO:CD	2.83	0.41
2:G:825:LYS:NZ	2:G:847:VAL:HG21	2.29	0.41
2:G:985:LEU:HD23	2:G:985:LEU:O	2.20	0.41
2:G:1460:LEU:HD13	2:G:1479:ALA:CB	2.50	0.41
2:G:1914:ARG:NH2	2:G:1960:ASP:O	2.53	0.41
2:G:2152:LEU:HD22	2:G:2152:LEU:N	2.35	0.41
1:B:2063:MET:HB3	1:B:2197:VAL:HG23	2.01	0.41
1:B:2077:TYR:HA	1:B:2113:LYS:O	2.19	0.41
2:A:479:MET:HE2	2:A:479:MET:HA	2.02	0.41
2:A:1277:CYS:HB3	2:A:1315:PRO:HB2	2.03	0.41
2:A:1408:THR:HB	2:A:1440:ARG:HH22	1.86	0.41
2:A:1663:GLU:O	2:A:1666:SER:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1702:VAL:HG12	2:A:1702:VAL:O	2.20	0.41
2:A:1877:ILE:HG22	2:A:1878:SER:N	2.36	0.41
2:A:1930:VAL:HB	2:A:1949:GLN:NE2	2.34	0.41
1:D:2063:MET:HG2	1:D:2197:VAL:HB	2.01	0.41
1:D:2215:ASN:CG	1:D:2218:PRO:HD3	2.46	0.41
2:C:671:ASP:O	2:C:674:PRO:HD2	2.21	0.41
2:C:1205:LEU:O	2:C:1205:LEU:HD12	2.21	0.41
2:C:1408:THR:CG2	2:C:1440:ARG:HE	2.28	0.41
2:C:1434:GLN:HG2	2:C:1480:THR:HG21	2.02	0.41
2:C:1997:MET:CE	2:C:2000:MET:HE3	2.50	0.41
2:C:2012:LEU:HD22	2:C:2012:LEU:N	2.36	0.41
2:C:2033:ASP:OD1	2:C:2035:PHE:HB2	2.21	0.41
2:E:756:THR:O	2:E:760:VAL:HG12	2.20	0.41
2:E:1517:TYR:O	2:E:1521:ILE:HG13	2.20	0.41
2:E:1688:TYR:OH	2:E:1710:ALA:HB2	2.21	0.41
2:E:1950:ALA:HB1	2:E:1957:LEU:HD11	2.02	0.41
1:H:2072:VAL:O	1:H:2072:VAL:HG22	2.21	0.41
1:H:2253:LYS:NZ	1:H:2285:GLN:O	2.53	0.41
2:G:1598:THR:O	2:G:1602:ILE:HG13	2.20	0.41
2:G:1629:LEU:HD12	2:G:1630:THR:HG23	2.03	0.41
2:A:978:ARG:HA	2:A:978:ARG:HH11	1.85	0.41
2:A:1101:ILE:H	2:A:1101:ILE:HG13	1.78	0.41
2:A:1207:PRO:HG3	2:A:1221:LYS:HD3	2.03	0.41
2:A:1407:LYS:HZ3	2:A:1407:LYS:CA	2.33	0.41
2:A:1426:ARG:NH2	2:A:1472:GLU:O	2.54	0.41
2:A:1440:ARG:HA	2:A:1440:ARG:NE	2.26	0.41
2:A:1709:THR:OG1	2:A:1744:LEU:HB2	2.20	0.41
2:C:1230:PHE:CD1	2:C:1231:PRO:HD2	2.56	0.41
2:E:496:VAL:N	2:E:735:GLN:O	2.37	0.41
2:E:881:THR:CG2	2:E:919:ILE:HD11	2.42	0.41
2:E:978:ARG:NH2	2:E:982:SER:OG	2.54	0.41
2:E:1229:LYS:HD3	2:E:1263:LEU:HD12	2.03	0.41
2:E:1430:ILE:HD12	2:E:1503:PHE:CZ	2.55	0.41
2:E:1586:HIS:CE1	2:E:1588:PRO:HG2	2.56	0.41
2:E:1712:LEU:HD12	2:E:1713:VAL:H	1.84	0.41
2:E:1855:GLU:N	2:E:1866:LEU:HD12	2.36	0.41
2:E:1879:TYR:CE1	2:E:1880:MET:HG3	2.55	0.41
2:G:461:GLU:O	2:G:464:VAL:HG12	2.21	0.41
2:G:764:VAL:HA	2:G:767:ASN:O	2.21	0.41
2:G:797:THR:OG1	2:G:800:GLN:HB2	2.20	0.41
2:G:1478:LEU:HD12	2:G:1478:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1529:ILE:HG13	2:G:1537:MET:HE1	2.03	0.41
1:B:2247:LEU:HD23	1:B:2275:LEU:CA	2.50	0.41
1:B:2274:LYS:HE3	1:B:2274:LYS:HB2	1.83	0.41
2:A:510:ILE:CD1	2:A:534:SER:HB3	2.50	0.41
2:A:808:THR:HG23	2:A:809:ARG:N	2.35	0.41
2:A:1176:SER:HA	2:A:1177:PRO:HD3	1.88	0.41
2:A:1468:LEU:HG	2:A:1469:LYS:N	2.36	0.41
2:A:1712:LEU:HD12	2:A:1754:GLY:HA2	2.03	0.41
2:A:1903:THR:HG22	2:A:1971:LYS:HZ3	1.86	0.41
2:C:677:GLU:OE1	2:C:943:LEU:HB2	2.21	0.41
2:C:1116:ILE:HG22	2:C:1172:TRP:CD1	2.55	0.41
2:C:1235:ILE:HG22	2:C:1253:ILE:HG12	2.03	0.41
2:C:1451:LEU:C	2:C:1451:LEU:HD22	2.46	0.41
2:C:1607:PRO:HA	2:C:1640:ARG:NH1	2.36	0.41
2:C:1652:LEU:HD23	2:C:1683:ILE:HG23	2.01	0.41
2:C:1796:MET:O	2:C:1797:ILE:HD13	2.21	0.41
2:E:517:GLU:HA	2:E:520:ARG:NH1	2.35	0.41
2:E:549:VAL:HG22	2:E:699:LEU:HD22	2.02	0.41
2:E:781:THR:HG23	2:E:834:ILE:HD11	2.01	0.41
2:E:1439:LEU:O	2:E:1442:GLN:HB3	2.19	0.41
2:E:1718:THR:O	2:E:1719:GLN:HG3	2.21	0.41
2:E:1841:VAL:O	2:E:1845:LEU:HG	2.21	0.41
2:E:2004:ALA:CB	2:E:2119:PHE:HB2	2.51	0.41
2:E:2049:TYR:CD1	2:E:2053:VAL:HG22	2.55	0.41
2:G:500:LYS:O	2:G:502:ARG:N	2.54	0.41
2:G:639:GLU:O	2:G:643:VAL:HG12	2.20	0.41
2:G:926:ILE:HD12	2:G:926:ILE:C	2.45	0.41
2:G:1142:ARG:NH2	2:G:1168:GLU:OE2	2.49	0.41
2:G:1489:ARG:HG3	2:G:1490:GLN:N	2.36	0.41
2:G:1514:GLN:HB3	2:G:1515:MET:H	1.66	0.41
2:G:1713:VAL:CG2	2:G:1743:ALA:HB2	2.50	0.41
2:G:1732:PRO:HG2	2:G:1735:GLU:HB3	2.03	0.41
1:B:2096:GLN:HG2	1:B:2153:THR:O	2.20	0.41
1:B:2253:LYS:HZ1	1:B:2278:PRO:HA	1.84	0.41
2:A:621:ARG:HG2	2:A:622:GLN:N	2.31	0.41
2:A:789:ARG:O	2:A:792:ALA:HB3	2.21	0.41
2:A:798:ILE:HG13	2:A:799:ASN:N	2.29	0.41
2:A:1460:LEU:CD2	2:A:1479:ALA:HB2	2.40	0.41
2:A:1817:LEU:N	2:A:1817:LEU:HD12	2.35	0.41
2:A:1868:ALA:O	2:A:1882:MET:HE2	2.21	0.41
2:A:1957:LEU:HB3	2:A:1958:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1976:LEU:HA	2:A:1979:ILE:HD12	2.03	0.41
1:D:2164:PRO:HG3	1:D:2226:PHE:CE1	2.56	0.41
1:D:2309:ALA:HB1	2:C:619:GLY:H	1.86	0.41
2:C:521:ILE:N	2:C:522:PRO:HD2	2.36	0.41
2:C:546:ASN:O	2:C:715:VAL:HG13	2.21	0.41
2:C:616:GLU:HG3	2:C:616:GLU:O	2.20	0.41
2:C:621:ARG:O	2:C:624:THR:OG1	2.28	0.41
2:C:775:VAL:HG22	2:C:776:HIS:N	2.34	0.41
2:C:1382:ILE:HD12	2:C:1382:ILE:N	2.25	0.41
2:C:1415:LEU:CD1	2:C:1502:LEU:HD21	2.43	0.41
2:C:1460:LEU:CD2	2:C:1483:GLN:HG3	2.50	0.41
2:C:1509:HIS:NE2	2:C:1544:VAL:HG13	2.36	0.41
2:C:1672:TYR:OH	2:C:1681:LYS:HD3	2.20	0.41
2:C:1804:ILE:O	2:C:1808:THR:HG23	2.21	0.41
2:C:2005:MET:HG3	2:C:2178:VAL:HG21	2.00	0.41
2:C:2182:GLN:CB	2:C:2184:PRO:HD3	2.49	0.41
1:F:2079:MET:HA	1:F:2080:PRO:HD3	1.85	0.41
2:E:482:GLY:CA	2:E:497:PRO:HG3	2.50	0.41
2:E:515:LEU:O	2:E:515:LEU:HD12	2.21	0.41
2:E:592:LEU:HD12	2:E:867:TRP:CD2	2.56	0.41
2:E:617:LEU:HA	2:E:622:GLN:NE2	2.35	0.41
2:E:747:LYS:HE2	2:E:751:THR:OG1	2.21	0.41
2:E:1171:MET:HE3	2:E:1328:MET:CG	2.47	0.41
2:E:1229:LYS:HD3	2:E:1260:ASP:HB2	2.01	0.41
2:E:1582:TYR:CD1	2:E:1594:MET:HE2	2.55	0.41
2:G:456:LYS:HB3	2:G:992:TYR:OH	2.21	0.41
2:G:471:LEU:HD23	2:G:471:LEU:C	2.46	0.41
2:G:548:LEU:HD22	2:G:709:VAL:HG12	2.03	0.41
2:G:549:VAL:HG22	2:G:699:LEU:CD2	2.51	0.41
2:G:574:ASN:HB3	2:G:575:GLU:H	1.57	0.41
2:G:784:THR:O	2:G:788:ILE:HG13	2.21	0.41
2:G:960:VAL:HG21	2:G:966:GLY:HA2	2.02	0.41
2:G:1314:MET:HE2	2:G:1343:LEU:CG	2.50	0.41
2:G:1336:VAL:HG12	2:G:1338:PHE:CE1	2.56	0.41
2:G:1527:HIS:HB3	2:G:1809:PHE:CE2	2.56	0.41
2:G:2058:LEU:HD23	2:G:2062:GLN:NE2	2.36	0.41
1:B:2080:PRO:HG2	1:B:2083:ILE:CD1	2.51	0.41
1:B:2284:GLU:OE2	2:A:1174:THR:OG1	2.39	0.41
2:A:679:ILE:O	2:A:683:THR:HG23	2.20	0.41
2:A:806:ALA:CB	2:A:808:THR:HG22	2.50	0.41
2:A:1047:MET:HE1	2:A:1147:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1236:GLN:HA	2:A:1334:MET:HE1	2.04	0.41
2:A:1458:VAL:HG22	2:A:1477:ILE:HG22	2.00	0.41
2:A:1546:LEU:HD22	2:A:1552:ILE:CD1	2.46	0.41
2:A:1715:VAL:HB	2:A:1756:LEU:HD12	2.03	0.41
1:D:2211:TRP:HE1	1:D:2225:GLY:HA3	1.86	0.41
2:C:1007:HIS:O	2:C:1011:MET:HG2	2.20	0.41
2:C:1109:ASN:O	2:C:1113:GLN:HG3	2.21	0.41
2:C:1115:TYR:OH	2:C:1170:ARG:HD2	2.21	0.41
2:C:1390:LEU:O	2:C:1538:ARG:NH1	2.39	0.41
2:C:1398:LEU:CD1	2:C:1552:ILE:HG22	2.50	0.41
2:C:1401:ALA:HB1	2:C:1402:PRO:HD2	2.03	0.41
2:C:1868:ALA:HB1	2:C:1882:MET:SD	2.60	0.41
2:E:539:THR:HG23	2:E:719:LYS:CD	2.49	0.41
2:E:590:ALA:HB1	2:E:591:PRO:HD2	2.03	0.41
2:E:1501:GLU:HG3	2:E:1536:PRO:O	2.21	0.41
2:E:1672:TYR:HD2	2:E:1702:VAL:HG21	1.85	0.41
1:H:2087:PHE:CE2	1:H:2153:THR:HG23	2.56	0.41
1:H:2218:PRO:O	1:H:2220:VAL:N	2.51	0.41
2:G:474:ASN:HA	2:G:475:PRO:HD3	1.92	0.41
2:G:651:ILE:HA	2:G:654:THR:OG1	2.21	0.41
2:G:771:MET:O	2:G:858:VAL:HA	2.20	0.41
2:G:776:HIS:CE1	2:G:894:LEU:HD11	2.56	0.41
2:G:1054:ILE:HG22	2:G:1153:TRP:HZ3	1.86	0.41
2:G:1209:ARG:O	2:G:1213:LEU:HB2	2.21	0.41
2:G:1396:ASN:ND2	2:G:1396:ASN:O	2.54	0.41
2:G:1997:MET:HE2	2:G:1997:MET:HB3	2.00	0.41
2:A:562:MET:HE1	2:A:607:LEU:CD2	2.52	0.40
2:A:677:GLU:OE1	2:A:973:THR:OG1	2.38	0.40
2:A:759:LYS:HD3	2:A:759:LYS:HA	1.93	0.40
2:A:843:ASP:O	2:A:847:VAL:HG23	2.21	0.40
2:A:1598:THR:O	2:A:1602:ILE:HG13	2.21	0.40
2:A:1712:LEU:HD12	2:A:1753:ARG:O	2.21	0.40
2:A:2046:ASN:HA	2:A:2049:TYR:HB2	2.02	0.40
2:A:2112:ASP:N	2:A:2113:PRO:CD	2.84	0.40
1:D:2276:ASP:HA	2:C:1319:PHE:CZ	2.57	0.40
2:C:716:ASP:O	2:C:720:GLY:N	2.43	0.40
2:C:788:ILE:O	2:C:792:ALA:HB2	2.21	0.40
2:C:1379:PHE:HE1	2:C:1384:THR:HG22	1.85	0.40
2:C:1421:LYS:HG2	2:C:1422:LYS:N	2.36	0.40
2:E:581:LEU:H	2:E:581:LEU:CD2	2.28	0.40
2:E:722:PHE:HB3	2:E:724:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:811:VAL:O	2:E:811:VAL:HG12	2.22	0.40
2:E:823:ASP:OD1	2:E:824:LEU:N	2.54	0.40
2:E:1053:LEU:HD22	2:E:1069:GLN:OE1	2.21	0.40
2:E:1766:TYR:O	2:E:1770:LEU:HB2	2.21	0.40
2:G:514:GLU:O	2:G:515:LEU:HD12	2.20	0.40
2:G:1596:LYS:HB3	2:G:1597:PRO:HD3	2.02	0.40
2:G:2183:ASP:OD1	2:G:2183:ASP:N	2.43	0.40
1:B:2047:ARG:CD	2:A:1098:LYS:HE3	2.50	0.40
1:B:2077:TYR:HE2	1:B:2234:ARG:HD3	1.86	0.40
1:B:2097:VAL:O	1:B:2152:HIS:HA	2.21	0.40
1:B:2192:PHE:HD1	1:B:2197:VAL:HG12	1.85	0.40
1:B:2253:LYS:HG3	1:B:2279:LEU:HD12	2.03	0.40
2:A:562:MET:CE	2:A:607:LEU:HD21	2.51	0.40
2:A:709:VAL:HG22	2:A:974:TYR:CE1	2.57	0.40
2:A:1072:GLU:OE1	2:A:1072:GLU:N	2.53	0.40
2:A:1177:PRO:HG2	2:A:1199:TRP:CD2	2.56	0.40
2:A:1391:TYR:C	2:A:1417:ARG:HD2	2.46	0.40
2:A:1430:ILE:HD12	2:A:1503:PHE:HZ	1.86	0.40
2:A:1535:LEU:HD12	2:A:1535:LEU:O	2.21	0.40
2:A:1871:ILE:HD11	2:A:1984:SER:HB2	2.03	0.40
2:A:1972:ILE:HG12	2:A:2124:LYS:HE2	2.03	0.40
2:C:771:MET:N	2:C:857:GLN:O	2.54	0.40
2:C:937:LEU:HA	2:C:938:PRO:HD3	1.92	0.40
2:C:1314:MET:HE3	2:C:1343:LEU:CG	2.51	0.40
2:C:1314:MET:HE3	2:C:1343:LEU:HD21	2.03	0.40
2:C:1461:THR:HG23	2:C:1462:GLY:N	2.36	0.40
2:C:1586:HIS:HB3	2:C:1589:SER:HB2	2.03	0.40
2:C:1644:VAL:HG13	2:C:1649:ILE:CD1	2.38	0.40
2:C:1858:GLU:OE1	2:C:1859:ASP:N	2.54	0.40
2:C:2074:TYR:HD1	2:C:2075:PRO:HD2	1.85	0.40
2:C:2079:LEU:HA	2:C:2101:ILE:CG2	2.51	0.40
2:C:2129:TRP:CE3	2:C:2130:LEU:HD23	2.55	0.40
2:E:1176:SER:HA	2:E:1177:PRO:HD3	1.87	0.40
2:E:1556:ILE:O	2:E:1556:ILE:HG22	2.20	0.40
1:H:2227:THR:O	1:H:2230:MET:HG2	2.21	0.40
2:G:685:ARG:NH1	2:G:959:ASN:O	2.53	0.40
2:G:1273:LEU:HD23	2:G:1285:HIS:HB2	2.02	0.40
2:G:1468:LEU:HD12	2:G:1468:LEU:C	2.47	0.40
2:G:1471:LEU:HG	2:G:1496:ASN:CG	2.46	0.40
2:G:1714:VAL:HA	2:G:1755:VAL:O	2.20	0.40
2:G:1875:TYR:O	2:G:1877:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2052:ALA:CB	1:B:2093:LEU:HG	2.51	0.40
1:B:2101:LEU:HG	1:B:2151:ILE:HG13	2.02	0.40
1:B:2297:LEU:CD2	2:A:1120:LYS:HA	2.44	0.40
1:B:2300:ILE:N	1:B:2300:ILE:HD12	2.37	0.40
2:A:955:ILE:HG22	2:A:1030:ALA:CB	2.42	0.40
2:A:1040:TYR:O	2:A:1139:ARG:HD2	2.21	0.40
2:A:1142:ARG:HD2	2:A:1168:GLU:OE2	2.21	0.40
2:A:1380:ASN:O	2:A:1384:THR:HG23	2.21	0.40
2:A:1386:THR:HG22	2:A:1564:TYR:CE2	2.56	0.40
2:A:1784:LEU:N	2:A:1785:PRO:CD	2.84	0.40
2:A:1867:ASN:O	2:A:1871:ILE:HG13	2.21	0.40
2:A:1908:PHE:O	2:A:1911:ILE:HB	2.22	0.40
2:A:1914:ARG:HA	2:A:1914:ARG:HE	1.87	0.40
2:A:2148:VAL:HG13	2:A:2149:GLY:N	2.33	0.40
2:C:561:ALA:O	2:C:565:MET:HG3	2.21	0.40
1:F:2117:CYS:HB2	1:F:2245:PHE:CE2	2.56	0.40
2:E:494:ILE:HB	2:E:737:PHE:HB2	2.04	0.40
2:E:740:VAL:HG21	2:E:748:GLN:HG3	2.03	0.40
2:E:792:ALA:CA	2:E:798:ILE:HG22	2.51	0.40
2:E:976:PHE:HA	2:E:979:MET:HE3	2.03	0.40
2:E:1481:PRO:HB3	2:E:1519:TYR:HA	2.03	0.40
2:E:1928:VAL:HG21	2:E:1949:GLN:OE1	2.20	0.40
1:H:2047:ARG:O	1:H:2051:ILE:HG13	2.21	0.40
1:H:2274:LYS:HE2	1:H:2276:ASP:HB2	2.02	0.40
2:G:624:THR:HA	2:G:627:GLN:OE1	2.22	0.40
2:G:738:ILE:HD11	2:G:759:LYS:HE3	2.03	0.40
2:G:1207:PRO:CB	2:G:1208:PRO:HD3	2.51	0.40
2:G:1216:MET:HA	2:G:1217:PRO:HD3	1.90	0.40
2:G:1426:ARG:HD2	2:G:1499:THR:HG21	2.02	0.40
2:G:1601:ALA:O	2:G:1605:LEU:HB2	2.22	0.40
2:G:1801:GLU:O	2:G:1804:ILE:HB	2.21	0.40
2:G:1995:MET:O	2:G:1999:GLN:HG3	2.21	0.40
2:G:2097:LEU:O	2:G:2156:LEU:N	2.54	0.40
2:G:2169:LYS:CA	2:G:2185:SER:HB3	2.51	0.40
1:B:2055:ASN:HA	1:B:2058:THR:HG23	2.03	0.40
2:A:472:MET:HG3	2:A:474:ASN:OD1	2.21	0.40
2:A:540:ALA:HA	2:A:695:ARG:HH22	1.86	0.40
2:A:978:ARG:HA	2:A:978:ARG:NH1	2.36	0.40
2:A:1587:PHE:N	2:A:1588:PRO:HD2	2.36	0.40
2:A:1932:MET:HE3	2:A:1935:PRO:HB3	2.03	0.40
1:D:2084:LEU:O	1:D:2088:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:825:LYS:HG3	2:C:828:LEU:HB2	2.03	0.40
2:C:1328:MET:HG3	2:C:1329:HIS:N	2.36	0.40
2:C:1460:LEU:HD13	2:C:1467:ASP:CB	2.51	0.40
2:C:1492:LYS:HE3	2:C:1796:MET:CE	2.38	0.40
2:C:1571:ARG:NH1	2:C:1575:LEU:HB2	2.37	0.40
2:C:1780:LEU:O	2:C:1780:LEU:HD13	2.21	0.40
2:C:1815:ARG:NH2	2:C:1819:ASN:HB2	2.36	0.40
2:C:1871:ILE:O	2:C:1875:TYR:HD1	2.05	0.40
2:C:1884:MET:HE3	2:C:1884:MET:HB3	1.94	0.40
2:C:2010:SER:HA	2:C:2011:PRO:HD3	1.84	0.40
1:F:2177:HIS:HB2	1:F:2180:TRP:CD1	2.57	0.40
1:F:2261:SER:O	2:G:1891:HIS:HB3	2.22	0.40
2:E:825:LYS:CE	2:E:834:ILE:HG22	2.49	0.40
2:E:1016:SER:HB2	2:E:1018:LEU:HD13	2.02	0.40
2:E:1094:PRO:HG2	2:E:1172:TRP:CE2	2.57	0.40
2:E:1614:PHE:HB2	2:E:1739:MET:HE3	2.03	0.40
2:G:1116:ILE:HG22	2:G:1172:TRP:CD1	2.56	0.40
2:G:1501:GLU:H	2:G:1501:GLU:HG3	1.58	0.40
2:G:1503:PHE:HB2	2:G:1526:MET:HE2	2.02	0.40
2:G:1570:VAL:O	2:G:1570:VAL:HG12	2.21	0.40
2:G:1649:ILE:HD12	2:G:1649:ILE:N	2.36	0.40
2:G:1800:GLY:O	2:G:1804:ILE:HG12	2.22	0.40
2:G:1801:GLU:HA	2:G:1804:ILE:HG12	2.03	0.40
2:G:1843:THR:O	2:G:1846:LYS:HG2	2.21	0.40
2:G:1856:MET:HE2	2:G:1856:MET:HB3	1.95	0.40
2:G:2005:MET:HE1	2:G:2009:ASP:CB	2.49	0.40
2:A:493:GLU:C	2:A:494:ILE:HD12	2.46	0.40
2:A:605:LYS:HE2	2:A:605:LYS:HB3	1.93	0.40
2:A:1567:SER:OG	2:A:1568:PRO:HD2	2.22	0.40
2:A:2009:ASP:OD2	2:A:2013:LYS:NZ	2.48	0.40
2:A:2169:LYS:HD3	2:A:2185:SER:CB	2.51	0.40
1:D:2146:GLU:HG3	1:D:2148:LEU:HD11	2.03	0.40
1:D:2306:ASP:C	1:D:2308:PHE:H	2.30	0.40
2:C:716:ASP:OD1	2:C:719:LYS:HG2	2.22	0.40
2:C:827:LEU:HD12	2:C:827:LEU:C	2.46	0.40
2:C:1025:THR:HG21	2:C:1027:LYS:HG2	2.02	0.40
2:C:1435:GLU:OE1	2:C:1704:TRP:HB2	2.22	0.40
2:C:1658:GLU:OE2	2:C:1671:TYR:OH	2.31	0.40
2:E:1230:PHE:HA	2:E:1231:PRO:HD3	1.90	0.40
2:E:1706:LEU:HD11	2:E:1708:PHE:CD2	2.57	0.40
2:E:1827:ASP:OD1	2:E:1829:THR:OG1	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2070:THR:C	2:E:2072:ASN:H	2.29	0.40
1:H:2306:ASP:C	1:H:2308:PHE:H	2.29	0.40
2:G:491:TYR:CD1	2:G:755:ILE:HD11	2.56	0.40
2:G:566:LEU:HA	2:G:569:ILE:HB	2.04	0.40
2:G:893:GLU:HG3	2:G:929:TYR:OH	2.21	0.40
2:G:1176:SER:HA	2:G:1177:PRO:HD3	1.91	0.40
2:G:1398:LEU:HD23	2:G:1398:LEU:C	2.46	0.40
2:G:1587:PHE:HB3	2:G:1588:PRO:CD	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	B	264/276 (96%)	241 (91%)	19 (7%)	4 (2%)	8	37
1	D	259/276 (94%)	239 (92%)	13 (5%)	7 (3%)	4	25
1	F	261/276 (95%)	237 (91%)	22 (8%)	2 (1%)	16	50
1	H	265/276 (96%)	243 (92%)	13 (5%)	9 (3%)	3	20
2	A	1736/1772 (98%)	1619 (93%)	105 (6%)	12 (1%)	18	52
2	C	1686/1772 (95%)	1537 (91%)	130 (8%)	19 (1%)	11	43
2	E	1736/1772 (98%)	1580 (91%)	127 (7%)	29 (2%)	7	35
2	G	1698/1772 (96%)	1537 (90%)	131 (8%)	30 (2%)	6	34
All	All	7905/8192 (96%)	7233 (92%)	560 (7%)	112 (1%)	9	39

All (112) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	2217	ASP
1	B	2220	VAL

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Mol	Chain	Res	Type
2	A	575	GLU
2	A	1748	LYS
1	D	2218	PRO
2	C	872	PRO
2	C	1452	ARG
2	C	1852	ARG
2	C	2047	PRO
2	C	2101	ILE
2	C	2158	PHE
1	F	2301	TRP
2	E	509	ASN
2	E	1422	LYS
2	E	2010	SER
2	E	2046	ASN
2	E	2113	PRO
1	H	2074	ASP
1	H	2155	ALA
1	H	2217	ASP
1	H	2218	PRO
2	G	501	LYS
2	G	505	PRO
2	G	1452	ARG
2	G	1859	ASP
2	G	1862	THR
2	G	2072	ASN
2	G	2136	SER
2	A	621	ARG
2	A	768	ARG
2	A	798	ILE
2	A	1861	GLY
1	D	2182	ASN
1	D	2215	ASN
2	C	799	ASN
2	C	2121	PRO
2	C	2173	MET
2	E	768	ARG
2	E	917	GLY
2	E	1915	ARG
2	E	1929	PRO
2	E	2045	GLU
2	E	2053	VAL
2	E	2161	PRO

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Mol	Chain	Res	Type
2	G	994	ASP
2	G	1017	ASN
2	G	1365	LYS
2	G	1640	ARG
2	G	1799	SER
2	G	1985	SER
2	G	2002	VAL
2	G	2053	VAL
2	G	2170	LEU
1	B	2156	GLY
2	A	2107	GLU
1	D	2219	ASN
2	C	2137	THR
2	E	1966	GLU
1	H	2182	ASN
2	G	516	PRO
2	G	1196	ASP
2	G	1421	LYS
2	G	1860	GLU
2	G	1876	ASN
2	G	2121	PRO
2	C	1860	GLU
2	C	2051	SER
2	E	468	GLY
2	E	505	PRO
2	E	767	ASN
2	E	989	GLY
2	E	1094	PRO
2	E	1462	GLY
2	E	2050	ALA
1	H	2072	VAL
1	H	2219	ASN
2	G	728	TYR
2	G	960	VAL
2	G	1231	PRO
2	G	1364	LEU
2	A	1987	GLY
1	D	2194	PRO
1	D	2220	VAL
2	C	874	HIS
2	C	2163	PRO
2	E	576	LYS

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Mol	Chain	Res	Type
2	E	1313	PRO
2	E	1965	GLN
2	G	1616	PRO
2	G	2047	PRO
1	B	2252	GLY
2	A	1876	ASN
2	E	868	GLY
1	H	2160	PRO
1	H	2181	LYS
2	A	996	VAL
2	C	1241	PRO
2	E	1208	PRO
2	E	2180	VAL
2	G	468	GLY
2	A	1231	PRO
2	E	1217	PRO
2	A	2046	ASN
1	F	2300	ILE
2	E	1231	PRO
2	C	811	VAL
2	E	1616	PRO
2	G	819	VAL
1	D	2266	ILE
2	C	868	GLY
2	C	871	LEU
2	C	1669	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	B	234/241 (97%)	226 (97%)	8 (3%)	32	64
1	D	231/241 (96%)	226 (98%)	5 (2%)	45	71
1	F	235/241 (98%)	229 (97%)	6 (3%)	40	69
1	H	235/241 (98%)	231 (98%)	4 (2%)	53	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A	1534/1562 (98%)	1476 (96%)	58 (4%)	29	62
2	C	1503/1562 (96%)	1433 (95%)	70 (5%)	23	57
2	E	1537/1562 (98%)	1488 (97%)	49 (3%)	34	65
2	G	1511/1562 (97%)	1470 (97%)	41 (3%)	39	68
All	All	7020/7212 (97%)	6779 (97%)	241 (3%)	32	64

All (241) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	2044	THR
1	B	2058	THR
1	B	2082	ASN
1	B	2116	ARG
1	B	2123	GLN
1	B	2151	ILE
1	B	2199	LEU
1	B	2210	LYS
2	A	467	GLN
2	A	479	MET
2	A	578	GLU
2	A	592	LEU
2	A	599	GLN
2	A	622	GLN
2	A	686	ARG
2	A	692	GLU
2	A	749	LEU
2	A	766	GLN
2	A	794	GLU
2	A	800	GLN
2	A	801	ILE
2	A	803	LYS
2	A	824	LEU
2	A	936	GLN
2	A	991	GLU
2	A	1041	TYR
2	A	1101	ILE
2	A	1174	THR
2	A	1209	ARG
2	A	1293	ASP
2	A	1294	LEU
2	A	1407	LYS

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Mol	Chain	Res	Type
2	A	1423	ASP
2	A	1436	LEU
2	A	1439	LEU
2	A	1456	GLU
2	A	1460	LEU
2	A	1468	LEU
2	A	1470	LEU
2	A	1475	ASP
2	A	1540	VAL
2	A	1609	GLN
2	A	1798	GLU
2	A	1830	HIS
2	A	1843	THR
2	A	1844	THR
2	A	1897	THR
2	A	1898	ILE
2	A	1899	LEU
2	A	1911	ILE
2	A	1936	VAL
2	A	1961	LEU
2	A	1965	GLN
2	A	1986	GLU
2	A	2009	ASP
2	A	2018	PHE
2	A	2042	ASN
2	A	2044	GLU
2	A	2048	ASN
2	A	2054	LYS
2	A	2055	ASP
2	A	2076	ASP
2	A	2077	ILE
2	A	2148	VAL
2	A	2165	LYS
2	A	2185	SER
1	D	2059	ARG
1	D	2090	ILE
1	D	2184	ASN
1	D	2218	PRO
1	D	2274	LYS
2	C	465	PHE
2	C	599	GLN
2	C	607	LEU

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Mol	Chain	Res	Type
2	C	623	LEU
2	C	625	LYS
2	C	633	VAL
2	C	721	LEU
2	C	725	ASP
2	C	760	VAL
2	C	773	ILE
2	C	802	LEU
2	C	803	LYS
2	C	804	HIS
2	C	809	ARG
2	C	810	GLU
2	C	871	LEU
2	C	894	LEU
2	C	914	TYR
2	C	996	VAL
2	C	1041	TYR
2	C	1101	ILE
2	C	1195	MET
2	C	1247	LEU
2	C	1289	ILE
2	C	1299	GLU
2	C	1343	LEU
2	C	1356	LEU
2	C	1359	LEU
2	C	1364	LEU
2	C	1380	ASN
2	C	1407	LYS
2	C	1410	CYS
2	C	1451	LEU
2	C	1452	ARG
2	C	1486	VAL
2	C	1514	GLN
2	C	1515	MET
2	C	1550	ARG
2	C	1562	ASP
2	C	1579	ILE
2	C	1598	THR
2	C	1645	GLU
2	C	1690	ASN
2	C	1780	LEU
2	C	1795	LYS

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Mol	Chain	Res	Type
2	C	1798	GLU
2	C	1854	ILE
2	C	1859	ASP
2	C	1862	THR
2	C	1889	LEU
2	C	1924	ILE
2	C	1977	SER
2	C	1986	GLU
2	C	2018	PHE
2	C	2023	VAL
2	C	2052	LEU
2	C	2056	LEU
2	C	2058	LEU
2	C	2063	LEU
2	C	2077	ILE
2	C	2079	LEU
2	C	2087	ASP
2	C	2106	GLU
2	C	2119	PHE
2	C	2134	GLU
2	C	2135	GLU
2	C	2143	ILE
2	C	2158	PHE
2	C	2166	HIS
2	C	2168	LEU
1	F	2053	THR
1	F	2159	LEU
1	F	2172	LYS
1	F	2210	LYS
1	F	2224	GLN
1	F	2261	SER
2	E	473	THR
2	E	481	GLU
2	E	507	ASP
2	E	508	GLN
2	E	521	ILE
2	E	542	LEU
2	E	573	ARG
2	E	579	ILE
2	E	582	ASP
2	E	584	PHE
2	E	606	ARG

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Mol	Chain	Res	Type
2	E	633	VAL
2	E	650	ASP
2	E	702	THR
2	E	719	LYS
2	E	733	LEU
2	E	766	GLN
2	E	799	ASN
2	E	808	THR
2	E	826	ASP
2	E	827	LEU
2	E	964	ASP
2	E	991	GLU
2	E	1041	TYR
2	E	1101	ILE
2	E	1187	GLU
2	E	1246	MET
2	E	1294	LEU
2	E	1423	ASP
2	E	1518	ILE
2	E	1645	GLU
2	E	1678	GLN
2	E	1816	LEU
2	E	1866	LEU
2	E	1879	TYR
2	E	1891	HIS
2	E	1930	VAL
2	E	1982	ILE
2	E	1983	LEU
2	E	2045	GLU
2	E	2054	LYS
2	E	2070	THR
2	E	2071	ASN
2	E	2078	THR
2	E	2088	ASN
2	E	2114	THR
2	E	2148	VAL
2	E	2180	VAL
2	E	2190	VAL
1	H	2069	ASP
1	H	2110	ASP
1	H	2135	HIS
1	H	2216	LYS

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Mol	Chain	Res	Type
2	G	501	LYS
2	G	509	ASN
2	G	532	ILE
2	G	579	ILE
2	G	912	ASP
2	G	959	ASN
2	G	994	ASP
2	G	1041	TYR
2	G	1126	LEU
2	G	1195	MET
2	G	1262	GLU
2	G	1354	LEU
2	G	1369	TYR
2	G	1392	ASN
2	G	1396	ASN
2	G	1416	LEU
2	G	1421	LYS
2	G	1457	ILE
2	G	1498	GLN
2	G	1499	THR
2	G	1501	GLU
2	G	1502	LEU
2	G	1847	GLN
2	G	1860	GLU
2	G	1887	LEU
2	G	1895	LEU
2	G	1930	VAL
2	G	1967	VAL
2	G	1969	LEU
2	G	1979	ILE
2	G	2025	VAL
2	G	2044	GLU
2	G	2052	LEU
2	G	2070	THR
2	G	2115	VAL
2	G	2127	ASN
2	G	2138	LYS
2	G	2140	LEU
2	G	2141	LEU
2	G	2153	ASN
2	G	2181	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (67)

such sidechains are listed below:

Mol	Chain	Res	Type
2	A	800	GLN
2	A	813	GLN
2	A	1285	HIS
2	A	1726	HIS
2	A	1847	GLN
2	A	1965	GLN
2	A	1993	ASN
2	A	2072	ASN
1	D	2134	GLN
2	C	462	ASN
2	C	622	GLN
2	C	626	GLN
2	C	735	GLN
2	C	770	GLN
2	C	855	HIS
2	C	962	ASN
2	C	1039	HIS
2	C	1180	GLN
2	C	1509	HIS
2	C	1648	GLN
2	C	1835	GLN
2	C	1934	ASN
1	F	2082	ASN
1	F	2111	GLN
1	F	2152	HIS
1	F	2182	ASN
1	F	2235	GLN
1	F	2307	ASN
2	E	602	ASN
2	E	622	GLN
2	E	748	GLN
2	E	769	ASN
2	E	800	GLN
2	E	936	GLN
2	E	1055	HIS
2	E	1240	GLN
2	E	1258	GLN
2	E	1385	GLN
2	E	1532	GLN
2	E	1561	HIS
2	E	1673	HIS
2	E	1689	ASN

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Mol	Chain	Res	Type
2	E	1912	GLN
2	E	2048	ASN
2	E	2071	ASN
2	E	2127	ASN
2	E	2182	GLN
1	H	2070	ASN
1	H	2127	ASN
1	H	2183	GLN
1	H	2255	ASN
2	G	559	ASN
2	G	602	ASN
2	G	901	GLN
2	G	952	ASN
2	G	959	ASN
2	G	1055	HIS
2	G	1396	ASN
2	G	1445	GLN
2	G	1496	ASN
2	G	1565	ASN
2	G	1673	HIS
2	G	1719	GLN
2	G	1912	GLN
2	G	1988	HIS
2	G	2003	GLN
2	G	2062	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	ACT	C	2201	-	3,3,3	0.82	0	3,3,3	1.35	0
3	ACT	E	2201	-	3,3,3	0.82	0	3,3,3	1.35	0
3	ACT	A	2201	-	3,3,3	0.83	0	3,3,3	1.34	0
3	ACT	G	2201	-	3,3,3	0.82	0	3,3,3	1.35	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	2201	ACT	1	0
3	E	2201	ACT	4	0
3	A	2201	ACT	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	B	266/276 (96%)	0.13	3 (1%) 78 61	54, 76, 110, 128	0
1	D	263/276 (95%)	-0.02	1 (0%) 88 79	56, 73, 101, 130	0
1	F	265/276 (96%)	0.08	2 (0%) 82 67	53, 83, 117, 143	0
1	H	267/276 (96%)	0.07	5 (1%) 66 46	54, 77, 111, 132	0
2	A	1738/1772 (98%)	0.02	20 (1%) 76 58	39, 73, 123, 171	0
2	C	1702/1772 (96%)	0.28	48 (2%) 55 35	49, 86, 159, 209	0
2	E	1740/1772 (98%)	0.11	14 (0%) 82 67	48, 80, 132, 205	0
2	G	1710/1772 (96%)	0.34	66 (3%) 43 27	48, 92, 171, 209	0
All	All	7951/8192 (97%)	0.17	159 (1%) 65 45	39, 81, 154, 209	0

All (159) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	1971	LYS	5.5
2	G	2172	LEU	4.7
2	G	2143	ILE	4.6
2	C	813	GLN	4.5
2	C	1504	ILE	4.2
2	G	800	GLN	4.1
2	A	800	GLN	4.0
2	C	1994	ALA	3.6
2	C	811	VAL	3.5
2	C	1899	LEU	3.4
2	G	2171	PHE	3.4
2	G	1415	LEU	3.3
2	G	1488	SER	3.3
2	G	1476	LEU	3.2
2	E	624	THR	3.2
2	E	796	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
2	C	1410	CYS	3.2
2	G	2042	ASN	3.2
2	G	1431	ALA	3.2
2	G	2037	PHE	3.1
2	A	1985	SER	3.1
2	G	2128	TRP	3.1
2	G	1540	VAL	3.1
2	C	1893	SER	3.1
2	A	1060	ASP	3.1
2	G	2101	ILE	3.1
2	C	1413	PHE	3.0
2	G	1504	ILE	3.0
2	A	813	GLN	3.0
2	G	1477	ILE	3.0
1	B	2251	THR	3.0
1	B	2217	ASP	2.9
2	G	1428	VAL	2.9
2	C	1902	VAL	2.9
2	G	1989	LEU	2.9
2	C	799	ASN	2.8
2	C	2035	PHE	2.8
2	G	2003	GLN	2.8
2	C	624	THR	2.8
2	C	2077	ILE	2.8
2	A	829	PRO	2.8
2	C	1497	VAL	2.8
1	D	2285	GLN	2.7
2	G	1475	ASP	2.7
2	C	1540	VAL	2.7
2	G	1427	ALA	2.7
2	G	1695	VAL	2.7
2	G	1563	ILE	2.6
2	G	2047	PRO	2.6
1	B	2072	VAL	2.6
2	G	1399	VAL	2.6
2	G	448	LEU	2.6
2	G	2045	GLU	2.6
2	G	1977	SER	2.6
2	C	1966	GLU	2.6
2	C	2081	PHE	2.5
2	G	2146	VAL	2.5
2	G	514	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
2	G	2175	ASP	2.5
2	C	1885	PHE	2.5
2	G	1502	LEU	2.5
2	C	1462	GLY	2.5
2	G	1875	TYR	2.5
2	E	811	VAL	2.5
2	E	1427	ALA	2.5
2	G	1995	MET	2.4
2	G	2173	MET	2.4
2	E	2056	LEU	2.4
2	C	800	GLN	2.4
2	G	1869	ALA	2.4
2	G	1539	ILE	2.4
2	C	2156	LEU	2.4
1	H	2155	ALA	2.4
2	A	809	ARG	2.4
2	G	1888	SER	2.4
2	C	1853	ILE	2.4
1	F	2134	GLN	2.4
2	C	1945	PHE	2.4
2	G	1541	GLY	2.3
2	C	2091	ALA	2.3
2	A	1486	VAL	2.3
2	E	1967	VAL	2.3
2	C	2142	ALA	2.3
2	A	832	PHE	2.3
2	E	449	VAL	2.3
2	E	633	VAL	2.3
2	G	1484	TRP	2.3
2	G	2041	MET	2.3
2	A	830	TYR	2.3
2	G	1703	CYS	2.3
2	C	1416	LEU	2.3
2	C	1976	LEU	2.3
2	C	2170	LEU	2.3
2	A	1908	PHE	2.3
2	A	799	ASN	2.3
2	A	1970	GLN	2.3
2	G	2040	GLN	2.3
2	G	2039	GLU	2.3
2	E	917	GLY	2.3
2	G	2176	SER	2.3

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Mol	Chain	Res	Type	RSRZ
2	C	1805	ASN	2.3
2	C	1981	ASP	2.3
2	G	1503	PHE	2.2
2	G	2074	TYR	2.2
2	C	2143	ILE	2.2
2	A	2075	PRO	2.2
2	G	1865	PRO	2.2
2	A	2152	LEU	2.2
2	C	1502	LEU	2.2
2	E	2001	VAL	2.2
2	G	2001	VAL	2.2
2	G	1505	ALA	2.2
2	A	1788	PHE	2.2
2	C	626	GLN	2.2
2	C	767	ASN	2.2
2	C	1652	LEU	2.2
2	C	1848	LEU	2.2
2	A	1407	LYS	2.2
2	C	1979	ILE	2.2
2	G	1385	GLN	2.2
2	C	1098	LYS	2.2
2	E	1425	GLY	2.2
2	C	1426	ARG	2.2
2	A	1419	TRP	2.2
2	C	2006	TRP	2.2
2	C	1789	VAL	2.1
2	G	1564	TYR	2.1
2	G	924	GLY	2.1
2	G	1877	ILE	2.1
2	G	1407	LYS	2.1
2	G	2141	LEU	2.1
2	E	2179	GLY	2.1
1	H	2074	ASP	2.1
2	G	1500	VAL	2.1
1	H	2185	THR	2.1
2	G	1511	LEU	2.1
2	C	2173	MET	2.1
2	C	1949	GLN	2.1
2	G	1978	ALA	2.1
2	G	2004	ALA	2.1
2	E	2176	SER	2.1
2	C	1806	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
2	E	1653	LEU	2.1
2	G	1639	ASP	2.1
2	G	1195	MET	2.1
2	G	1369	TYR	2.1
2	A	1424	ALA	2.1
2	C	1420	ALA	2.1
2	C	1987	GLY	2.1
2	C	2122	GLY	2.1
2	C	802	LEU	2.1
2	G	797	THR	2.1
2	G	1800	GLY	2.1
2	G	1497	VAL	2.0
1	F	2159	LEU	2.0
2	G	1652	LEU	2.0
1	H	2158	GLU	2.0
2	A	827	LEU	2.0
1	H	2217	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	ACT	C	2201	4/4	0.28	0.18	80,91,97,98	0
3	ACT	E	2201	4/4	0.65	0.19	87,92,111,111	0
3	ACT	G	2201	4/4	0.67	0.11	84,89,104,104	0
3	ACT	A	2201	4/4	0.82	0.12	63,68,81,81	0

6.5 Other polymers ⓘ

There are no such residues in this entry.