



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 17, 2024 – 07:02 AM EDT

PDB ID : 5M59
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.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

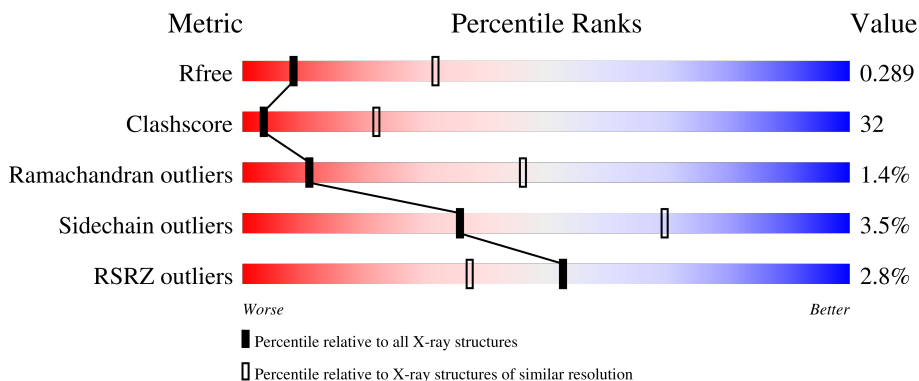
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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}	130704	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (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	
1	D	276	
1	F	276	
1	H	276	
2	A	1772	

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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 i

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

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
			Total	C	N	O	S			
2	A	1738	13917	8891	2369	2592	65	0	0	0
2	C	1702	13628	8709	2319	2536	64	0	0	0

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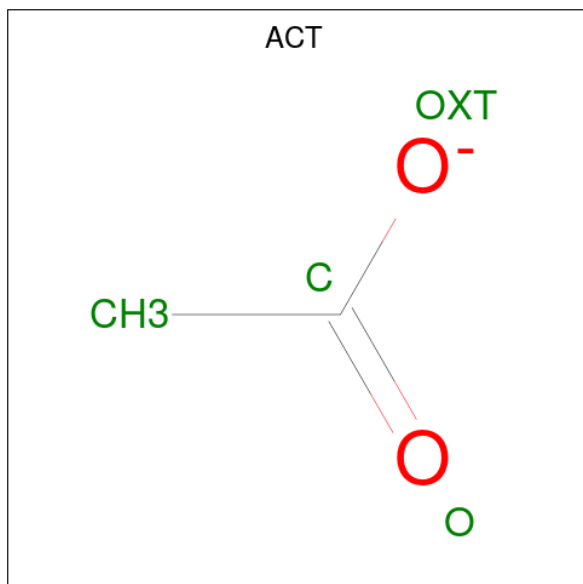
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	E	1740	Total 13925	C 8896	N 2372	O 2592	S 65	0	0	0
2	G	1710	Total 13701	C 8753	N 2336	O 2547	S 65	0	0	0

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 (three-letter code: ACT) (formula: $C_2H_3O_2$).



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

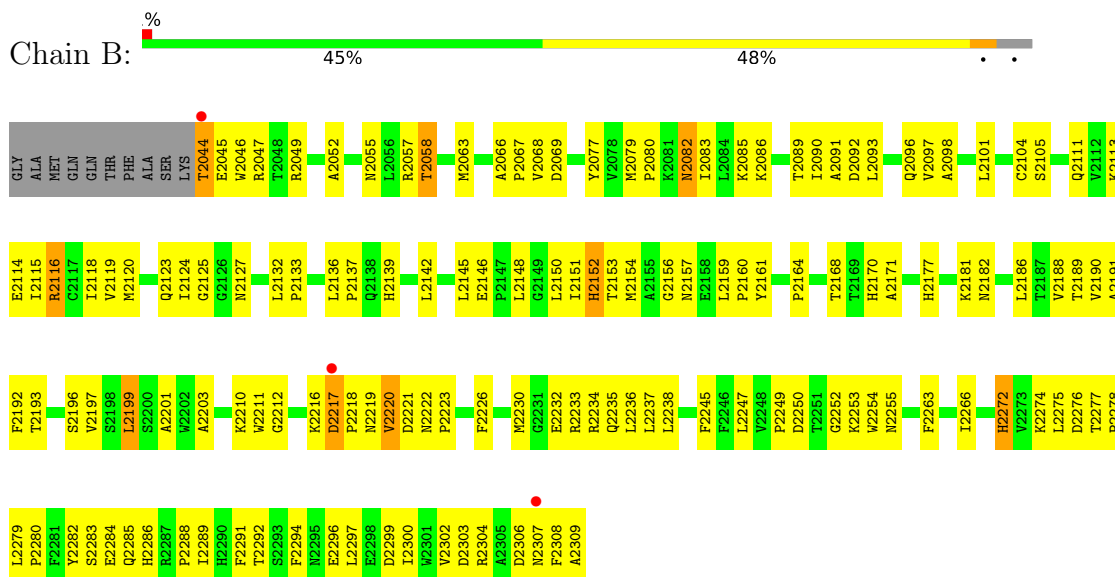
- Molecule 4 is water.

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

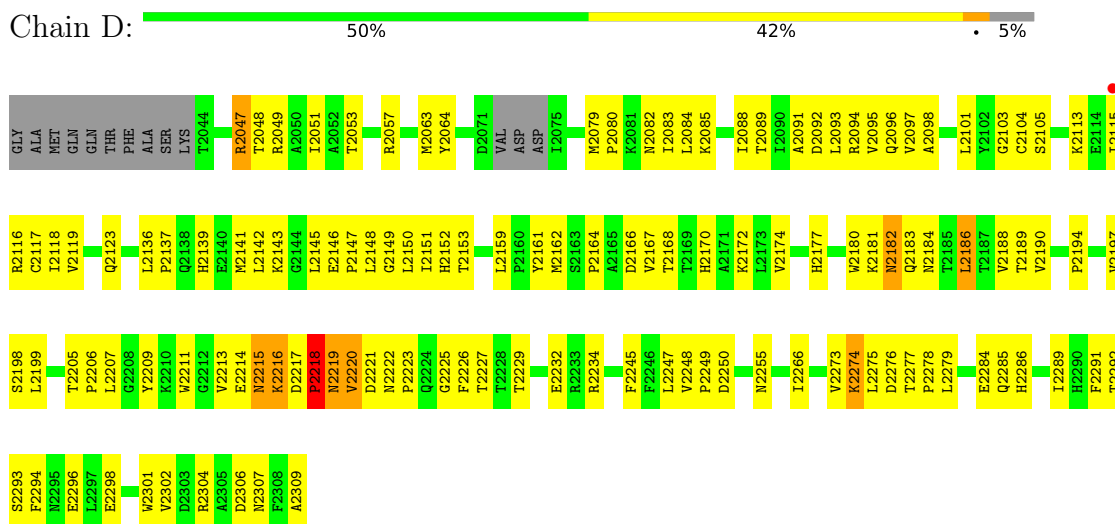
3 Residue-property plots

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

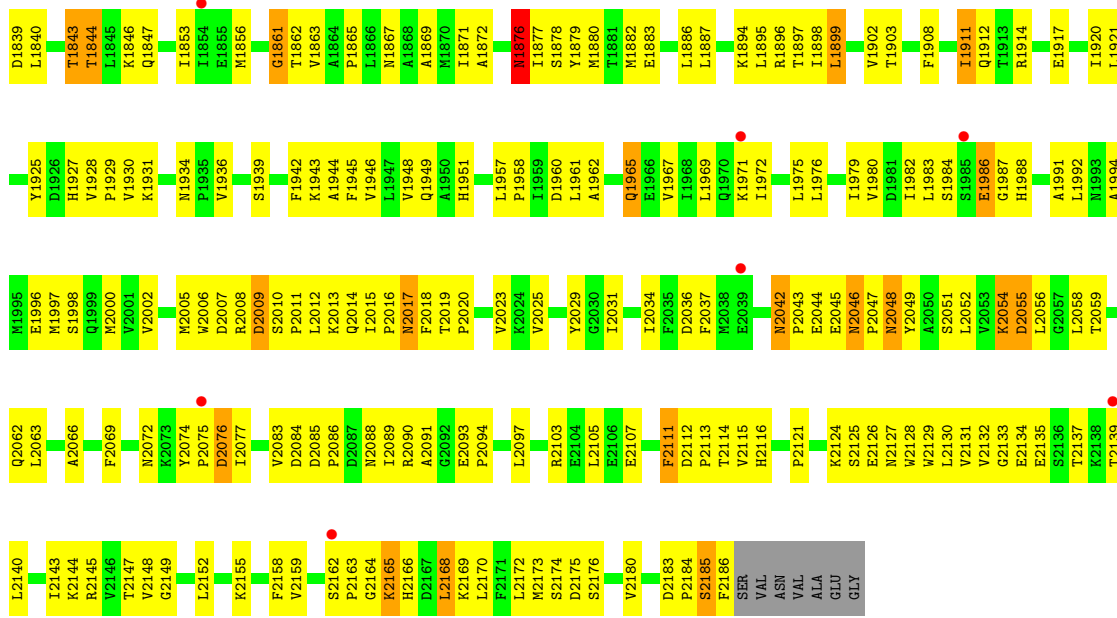


- Molecule 1: Putative pre-mRNA splicing factor

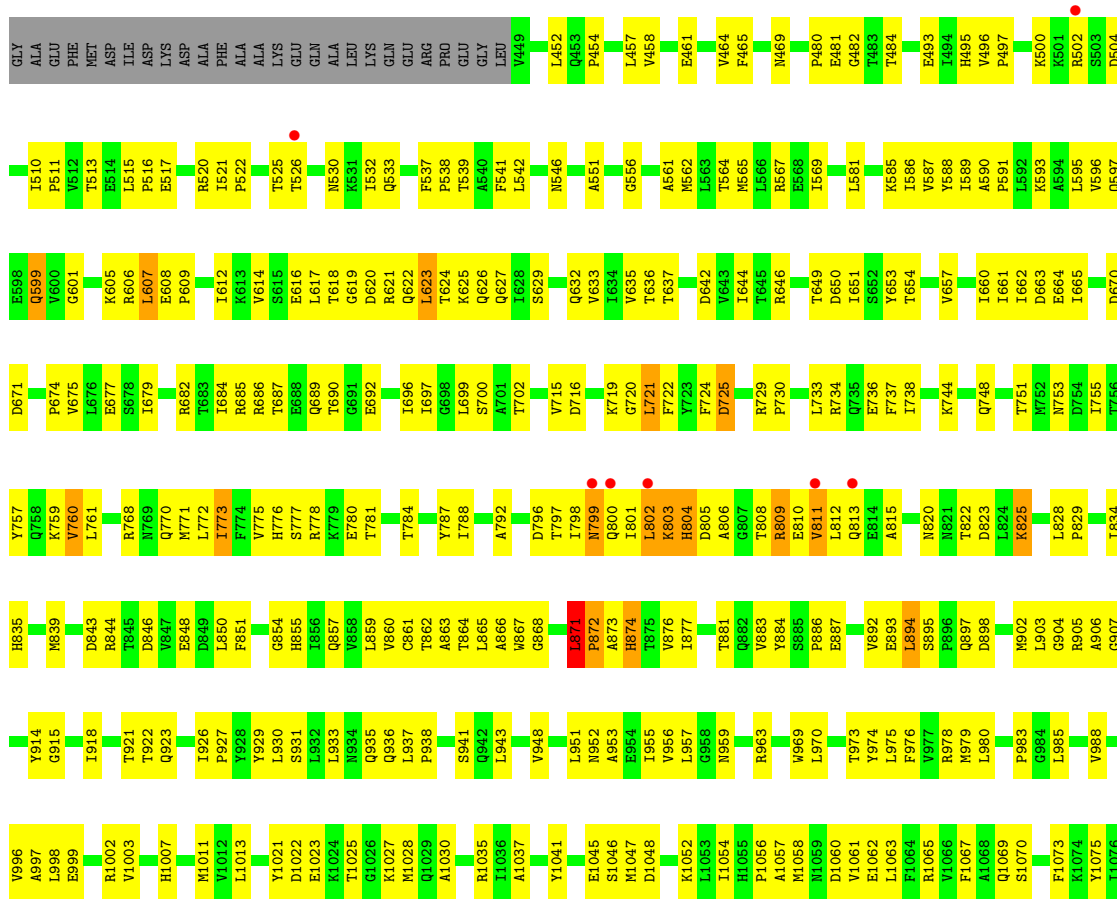


- Molecule 1: Putative pre-mRNA splicing factor

K1748	D1749	G1750	R1751	S1752	K1753	G1754	G1755	G1756	M1757	K1758	P1759	M1760	V1761	Y1766	L1770	L1774	P1775	L1780	L1784	P1785	F1788	I1792	M1796	I1797	S1798	G1800	E1801	I1804	I1804	Y1811	L1817	A1818	N1819	P1820	S1821	L1825	Q1826	D1827	P1828	T1829	H1830	L1837	S1838										
L1676	S1677	Q1678	F1679	D1680	K1681	G1682	L1683	V1684	K1685	Y1688	M1689	L1696	I1697	A1601	R1602	Q1609	P1610	V1613	F1614	V1615	R1618	K1619	Q1620	V1621	R1622	A1625	R1626	T1630	E1638	D1639	L1642	V1646	Q1648	R1650	L1653	E1658	E1663	S1666	G1670	Y1671	P1672	M1739	F1740	G1741	K1742	K1743	L1744	Q1745	P1746	S1747			
S1581	H1586	F1587	P1588	S1589	L1590	M1591	M1594	I1518	Y1519	K1596	P1597	T1598	Y1599	L1600	A1601	R1602	Q1609	P1610	V1613	F1614	V1615	R1618	K1619	Q1620	V1621	R1622	A1625	R1626	T1630	E1638	D1639	L1642	V1646	Q1648	R1650	L1653	E1658	E1663	S1666	G1670	Y1671	P1672	M1739	F1740	G1741	K1742	K1743	L1744	Q1745	P1746	S1747		
L1504	A1505	L1508	Q1514	M1515	G1516	M1517	I1518	Y1519	K1596	P1597	T1598	Y1599	L1600	A1601	R1602	Q1609	P1610	V1613	F1614	V1615	R1618	K1619	Q1620	V1621	R1622	A1625	R1626	T1630	E1638	D1639	L1642	V1646	Q1648	R1650	L1653	E1658	E1663	S1666	G1670	Y1671	P1672	M1739	F1740	G1741	K1742	K1743	L1744	Q1745	P1746	S1747			
R1426	A1427	Y1428	I1430	D1431	D1432	F1433	Q1434	E1435	L1436	V1437	R1440	F1441	L1448	E1456	I1457	V1458	K1459	L1460	T1461	T1464	T1466	D1467	L1468	L1470	L1471	E1472	Q1473	G1474	L1476	I1477	A1479	T1480	P1481	V1486	L1487	S1488	R1489	Q1490	M1491	K1495	M1496	V1497	Q1498	T1499	V1500	E1501	L1502	F1503					
T1351	E1352	L1353	P1358	L1359	V1361	S1362	A1363	K1365	A1366	Y1369	L1372	P1374	M1375	Q1377	F1378	F1379	N1380	K1381	I1382	Q1383	L1384	Q1385	T1386	L1389	Y1391	T1392	T1393	D1394	V1397	L1398	V1399	A1400	A1401	P1402	K1407	T1408	L1409	C1410	A1411	E1412	L1415	L1416	V1417	H1418	W1419	D1423							
I1271	I1272	L1273	V1274	E1276	D1277	G1278	I1282	L1284	H1285	D1286	V1287	F1288	L1289	R1291	D1292	L1293	L1294	E1301	H1302	T1303	V1304	L1307	G1308	M1309	L1310	P1315	P1316	F1319	I1320	I1323	R1326	W1327	M1328	H1329	S1330	E1331	T1332	R1333	M1334	P1335	V1336	F1337	F1338	F1347	P1348	H1350							
E1102	E1103	P1104	K1107	L1108	M1109	V1110	L1111	L1112	Q1113	L1119	K1120	L1121	E1122	G1123	L1124	A1125	L1126	M1127	Y1132	L1133	V1134	Q1135	S1136	G1138	L1139	G1140	L1141	R1142	A1143	E1146	I1147	C1148	L1149	K1150	K1151	L1152	W1153	A1154	S1155	K1158	L1159	A1160	L1161	M1162	M1163	C1164	K1165	E1168	M1171	T1174			
M1175	S1176	P1177	Y1181	L1182	M1109	V1110	L1111	L1112	Q1113	L1119	K1120	L1121	E1122	G1123	L1124	A1125	L1126	M1127	Y1132	L1133	V1134	Q1135	S1136	G1138	L1139	G1140	L1141	R1142	A1143	E1146	I1147	C1148	L1149	K1150	K1151	L1152	W1153	A1154	S1155	K1158	L1159	A1160	L1161	M1162	M1163	C1164	K1165	E1168	M1171	T1174			
R1929	A1030	T1031	E1032	R1035	T1036	A1037	S1038	H1039	Y1040	Y1041	L1042	S1043	H1044	E1045	P886	R887	R888	R889	M1052	H1055	P1056	A1057	M1058	M1059	D1060	L824	Y973	Y974	F1230	P1231	R1232	V1233	E1234	I1235	Q1236	P1241	M1242	T1243	R1244	L1247	R1248	I1249	E1250	V1251	T1252	L1253	T1254	M1256	H1350				
L939	E940	S941	Q942	L943	V944	S945	R946	L947	N952	A953	V883	V884	S885	P886	R887	R888	R889	M962	H1055	P1056	A1057	M1058	M1059	D1060	L824	Y973	Y974	F1230	P1231	R1232	V1233	E1234	I1235	Q1236	P1241	M1242	T1243	R1244	L1247	R1248	I1249	E1250	V1251	T1252	L1253	T1254	M1256	H1350					
A866	L871	P872	T875	M876	L877	L878	T881	R882	V883	V884	S885	P886	R887	R888	R889	M962	H1055	P1056	A1057	M1058	M1059	D1060	L824	Y973	Y974	F1230	P1231	R1232	V1233	E1234	I1235	Q1236	P1241	M1242	T1243	R1244	L1247	R1248	I1249	E1250	V1251	T1252	L1253	T1254	M1256	H1350							
K719	F722	Y723	D724	D725	G726	R729	P730	L733	R734	D735	E736	F737	I738	K744	A745	L746	K747	Q748	L749	K750	T751	P752	N753	D754	D755	T756	Y757	Q758	V760	H763	V764	G765	Q766	N767	R768	N769	Q770	M771	L772	V775	H776	S777	R778	K779	E780	Q857	V858	T781	K786	Y787	I788	R789	D790



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



L2172	D2181	S2051	G1987	E1917	Q1847	L1774	M1689	M1689	A1601
M2173	Q2182	L2052	H1988	E1918	L1848	P1775	M1690	M1690	I1602
D2176	D2183	V2053	L1989	G1919	S1849	S1778	I1693	I1693	T1603
Y2177	P2184	K2054	A1991	G1919	D1850	L1779	Q1694	Q1694	Q1604
	S2185	D2055	L1992	K1922	A1851	L1780	V1695	V1695	L1605
		L2056	M1993	R1923	L1854	H1781	L1696	L1696	S1606
		G2057	A1994	I1924	E1855	L1784	I1697	I1697	P1607
		L2058	M1995	Y1925	M1856	P1785	W1704	W1704	D1608
		T2059	E1996	V1928	E1857	P1785	E1705	E1705	Q1609
		Q2060	M1997	V1928	D1858	F1788	L1706	L1706	V1613
		A2061	S1998	F1929	E1859	V1789	D1707	D1707	P1616
		Q2062	Q1999	V1930	E1860	I1790	F1708	F1708	S1617
		L2063	M2000	K1931	G1861	E1791	I1709	I1709	R1618
		Q2064	V2001	V1936	T1862	E1791	A1710	A1710	V1622
		Q2065	Q2002	W1936	V1863	I1792	I1710	I1710	A1625
		A2066	Q2003	W1937	A1864	I1792	A1710	A1710	L1629
		N2068	A2004	D1938	P1865	T1794	S1793	S1793	T1630
		F2069	M2005	S1939	L1866	L1794	T1794	T1794	A1631
		T2070	M2006	K1943	M1867	K1795	L1712	L1712	C1632
		M2071	D2007	V1946	A1868	M1796	M1796	M1796	
		N2072	R2008	V1946	A1869	I1797	I1797	I1797	
		Y2074	D2009	M1870	M1870	S1799	S1799	S1799	
		PRO	S2010	L1947	I1871	G1800	G1800	G1800	
		ASP	L2012	V1948	Y1874	F1720	F1720	F1720	
		ILE	Q2013	Q1949	Y1875	E1722	E1722	E1722	
		THR	K2014	A1950	N1876	G1723	G1723	G1723	
		LEU	I2015	H1951	Y1877	K1724	K1724	K1724	
		GLU	P2016	F1952	S1878	F1809	F1809	F1809	
		F2081	N2017	R1954	Y1879	F1809	F1809	F1809	
		E2082	Q2018	M1880	M1880	F1812	F1812	F1812	
		V2083	I2019	I1959	E1883	Y1813	Y1813	Y1813	
		D2084	P2020	D1960	M1884	R1814	R1814	R1814	
		P2086	V2023	L1961	F1885	R1815	R1815	R1815	
		N2088	K2024	A1962	F1885	L1816	L1816	L1816	
		I2089	V2025	K1963	L1886	M1819	M1819	M1819	
		A2091	A2026	D1964	L1887	P1820	P1820	P1820	
		G2092	N2027	Q1965	S1888	S1821	S1821	S1821	
		E2093	K2028	V1967	L1889	P1746	P1746	P1746	
		A2095	I2031	I1968	H1891	S1747	S1747	S1747	
		Y2096	N2032	Q1970	K1892	L1825	L1825	L1825	
		L2097	D2033	K1971	S1893	Q1826	Q1826	Q1826	
		K2098	I2034	I1972	K1894	D1827	D1827	D1827	
		H2100	F2035	L1973	L1895	P1828	P1828	P1828	
		I2101	D2036	S1974	T1897	T1829	T1829	T1829	
		E2102	F2037	L1975	I1898	S1834	S1834	S1834	
		R2103	M2038	L1976	L1899	Q1835	Q1835	Q1835	
		E2104	E2039	S1977	E1900	L1837	L1837	L1837	
		L2105	Q2040	A1978	I1901	Y1836	Y1836	Y1836	
		E2106	M2041	I1979	V1902	S1838	S1838	S1838	
		E2107	N2042	V1980	V1902	R1839	R1839	R1839	
		ASP	P2043	D1981	E1907	L1840	L1840	L1840	
		GLU	E2044	I1982	F1908	V1841	V1841	V1841	
			E2045	L1983	Q1913	E1842	E1842	E1842	
			N2046	S1984	T1843	T1843	T1843	T1843	
			P2047	S1985	Q1913	E1772	E1772	E1772	
			N2048	E1986	R1914	K1846	K1846	K1846	
GLU									
PHE									
ASP									
P2113									
V2114									
H2116									
A2117									
P2118									
F2119									
Y2120									
P2121									
S2125									
E2126									
N2127									
W2128									
TRP									
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L2141									
A2142									
T2143									
K2144									
R2145									
V2146									
THR									
VAL									
GLY									
LYS									
E2151									
L2152									
N2153									
V2154									
K2155									
L2156									
E2157									
F2158									
V2159									
VAL									
PRO									
SER									
PRO									
GLY									
LYS									
HIS									
D2167									
L2168									
K2169									
L2170									
F2171									

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 49.52 – 3.20	Depositor EDS
% Data completeness (in resolution range)	99.0 (49.13-3.20) 99.0 (49.52-3.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 3.19Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.244 , 0.287 0.248 , 0.289	Depositor DCC
R_{free} test set	9222 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	93.4	Xtrriage
Anisotropy	0.312	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 60.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	0.044 for h,-k,-l	Xtrriage
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

Xtrriage'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 [i](#)

5.1 Standard geometry [i](#)

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	0.20	0/2175	0.38	0/2962
1	D	0.22	0/2151	0.39	0/2927
1	F	0.21	0/2174	0.39	0/2958
1	H	0.21	0/2184	0.37	0/2973
2	A	0.21	0/14227	0.37	0/19296
2	C	0.21	0/13925	0.38	0/18882
2	E	0.21	0/14234	0.38	0/19306
2	G	0.22	0/13998	0.39	0/18976
All	All	0.21	0/65068	0.38	0/88280

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.

There are no bond angle outliers.

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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2116	0	2075	139	0
1	D	2093	0	2057	120	0
1	F	2116	0	2079	124	0
1	H	2125	0	2088	127	0
2	A	13917	0	13956	862	0
2	C	13628	0	13674	959	0
2	E	13925	0	13970	867	0
2	G	13701	0	13768	973	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
4	F	1	0	0	0	0
4	G	3	0	0	1	0
All	All	63667	12	63679	4086	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 32.

All (4086) 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:A:835:HIS:HA	2:A:839:MET:HE1	1.31	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
2:C:2000:MET:HE2	2:C:2007:ASP:HA	1.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
1:B:2057:ARG:HD2	2:A:1057:ALA:HB1	1.53	0.91
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:1396:ASN:HB2	2:E:1558:ALA:HB2	1.62	0.82
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
2:C:2040:GLN:CA	2:C:2046:ASN:HB3	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1382:ILE:H	2:C:1382:ILE:HD12	1.48	0.79
2:A:1944:ALA:HB1	2:A:1971:LYS:HZ3	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
1:F:2227:THR:HB	1:F:2230:MET:HG3	1.63	0.78
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:C:1979:ILE:HA	2:C:1982:ILE:HG22	1.66	0.74
2:G:1236:GLN:HA	2:G:1334:MET:HE1	1.68	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:1587:PHE:HB3	2:G:1588:PRO:HD3	1.68	0.74
2:C:660:ILE:HD11	2:C:696:ILE:HG13	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:G:665:ILE:CG2	2:G:700:SER:HB2	2.18	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:A:1530:ARG:HB2	2:A:1537:MET:HE1	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
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: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
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
1:H:2079:MET:HE1	1:H:2151:ILE:HD11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1419:TRP:CH2	2:G:1476:LEU:HB2	2.24	0.72
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:C:1959:ILE:H	2:C:1959:ILE:HD12	1.54	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
2:G:1063:LEU:HD23	2:G:1163:MET: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: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:G:1798:GLU:C	2:G:1863:VAL:HG21	2.11	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
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
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: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
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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1997:MET:HA	2:A:2000:MET:HE2	1.74	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: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: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
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:C:903:LEU:HD13	2:C:933:LEU:HD21	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:E:1908:PHE:CD1	2:E:1967:VAL:HG13	2.29	0.67
1:H:2162:MET:HE3	1:H:2202:TRP:HB3	1.77	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1067:PHE:CE2	2:G:1112:LEU:HD22	2.30	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: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
1:F:2211:TRP:CD2	1:F:2230:MET:HE1	2.31	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: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:1063:LEU:HD23	2:C:1163:MET:HE3	1.78	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:C:771:MET:CE	2:C:877:ILE:HD12	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1530:ARG:HD3	2:E:1537:MET:HE2	1.77	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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
1:H:2119:VAL:HG11	1:H:2137:PRO:HG3	1.79	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
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:C:996:VAL:HG13	2:C:997:ALA:H	1.63	0.64
2:E:540:ALA:HA	2:E:547:MET:HE3	1.78	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: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
1:B:2300:ILE:HG13	2:A:1127:MET:HE3	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2138:LYS:HA	2:G:2138:LYS:HZ3	1.63	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: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:C:1457:ILE:HG22	2:C:1476:LEU:HB3	1.80	0.63
2:C:1467:ASP:HA	2:C:1470:LEU:CD2	2.29	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: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
1:H:2079:MET:HE2	1:H:2115:ILE:HD12	1.79	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
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:562:MET:HE3	2:C:607:LEU:HD21	1.79	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: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:1171:MET:HE3	2:E:1328:MET:HG2	1.80	0.63
2:E:1502:LEU:HD21	2:E:1504:ILE:HG13	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1944:ALA:HB1	2:A:1971:LYS:NZ	2.14	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:E:625:LYS:HD3	2:E:650:ASP:CG	2.19	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
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
1:B:2253:LYS:HZ2	1:B:2278:PRO:HA	1.63	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:A:2042:ASN:CG	2:A:2043:PRO:HD2	2.20	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:2216:LYS:C	1:F:2218:PRO:HD3	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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:1591:MET:HE1	2:E:1616:PRO:HG2	1.82	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:C:1210:MET:HE1	2:C:1224:CYS:N	2.15	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:1924:ILE:CD1	2:C:1946:VAL:HB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2046:ASN:CG	2:E:2047:PRO:HD2	2.21	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH2	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
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:1236:GLN:HA	2:G:1334:MET:CE	2.30	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:E:1978:ALA:C	2:E:1982:ILE:HD11	2.21	0.61
2:G:1426:ARG:CG	2:G:1499:THR:CG2	2.79	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:C:1590:LEU:HD11	2:C:1594:MET:HE2	1.82	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:E:585:LYS:HZ3	2:E:632:GLN:HA	1.66	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1314:MET:HE2	2:G:1343:LEU:HD11	1.84	0.60
2:G:1849:SER:CA	2:G:1854:ILE:HG22	2.32	0.60
1:B:2276:ASP:OD1	1:B:2277:THR:N	2.33	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:808:THR:O	2:E:809:ARG:HG2	2.02	0.59
2:E:1743:ALA:C	2:E:1744:LEU:HD12	2.23	0.59
2:G:1418:HIS:NE2	2:G:1501:GLU:OE1	2.35	0.59
2:G:501:LYS:N	2:G:501:LYS:HE3	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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: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: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:A:813:GLN:HB3	2:A:829:PRO:HA	1.85	0.59
2:C:522:PRO:HB2	2:C:562:MET:HE1	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1426:ARG:CG	2:G:1499:THR:HG21	2.33	0.59
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
2:C:2134:GLU:CD	2:C:2168:LEU:HD13	2.24	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: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: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:G:2183:ASP:CG	2:G:2184:PRO:HD3	2.23	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: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:2134:GLU:HB3	2:A:2168:LEU:HB3	1.84	0.58
2:C:834:ILE:HG23	2:C:839:MET:HE1	1.83	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: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:C:828:LEU:N	2:C:829:PRO:HD2	2.18	0.58
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:G:1995:MET:HE1	2:G:2173:MET:H	1.67	0.58
2:A:1928:VAL:HG21	2:A:1949:GLN:CB	2.24	0.58
2:C:1427:ALA:HB3	2:C:1476:LEU:HD12	1.84	0.58
2:E:992:TYR:CD2	2:E:1001:LYS:HB2	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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
1:F:2302:VAL:CG2	2:E:1131:VAL:HG21	2.34	0.57
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:1530:ARG:HB3	2:E:1537:MET:HE1	1.86	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
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:G:1648:GLN:C	2:G:1649:ILE:HD12	2.24	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
2:C:1431:ALA:HB1	2:C:1432:PRO:HD2	1.86	0.57
2:G:1058:MET:HE3	2:G:1063:LEU:HD13	1.87	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:757:TYR:OH	2:A:796:ASP:OD2	2.18	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
2:A:1044:HIS:CE1	2:A:1045:GLU:HG3	2.40	0.57
2:A:1598:THR:HG21	2:A:1716:MET:CE	2.34	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:2162:MET:CE	1:H:2202:TRP:HB3	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1715:VAL:HG22	2:C:1739:MET:HE3	1.86	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:921:THR:OG1	2:E:922:THR:N	2.38	0.56
2:E:1866:LEU:O	2:E:1868:ALA:N	2.37	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:2131:VAL:HG11	2:C:2170:LEU:HG	1.88	0.56
2:E:1616:PRO:CG	2:E:1717:GLY:HA3	2.33	0.56
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:1995:MET:CE	2:G:2173:MET:HB2	2.35	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:C:1171:MET:HE1	2:C:1180:GLN:HE21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1063:LEU:HD23	2:E:1163:MET:HE3	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: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:1530:ARG:HD3	2:A:1537:MET:HE2	1.87	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
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
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:771:MET:HE3	2:C:877:ILE:HD12	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1930:VAL:C	2:G:1931:LYS:HD2	2.27	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: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: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:A:1992:LEU:HD22	2:A:2173:MET:HG3	1.88	0.55
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
1:B:2216:LYS:C	1:B:2218:PRO:HD3	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1445:GLN:NE2	2:E:1457:ILE:O	2.39	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: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:500:LYS:HZ3	2:G:502:ARG:HB2	1.72	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:1425:GLY:HA2	2:G:1501:GLU:CD	2.27	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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:1121:LEU:HB2	2:C:1127:MET:HE1	1.89	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: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: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
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: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:1774:LEU:HD12	2:E:1775:PRO:CD	2.31	0.54
2:G:1353:LEU:C	2:G:1354:LEU:HD13	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:1492:LYS:HE3	2:C:1796:MET:CE	2.38	0.54
2:C:2076:ASP:HB2	2:C:2105:LEU:HD22	1.89	0.54
2:G:1191:LYS:HE2	2:G:1216:MET:HE3	1.88	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1063:LEU:HD23	2:A:1163:MET:HE1	1.88	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:1860:GLU:C	2:C:1862:THR:H	2.12	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:A:1591:MET:HG2	2:A:1620:GLN:CD	2.28	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
2:G:1798:GLU:CA	2:G:1863:VAL:HG21	2.37	0.54
2:G:2167:ASP:C	2:G:2168:LEU:HD23	2.28	0.54
1:B:2193:THR:OG1	1:B:2196:SER:O	2.19	0.54
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: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
1:H:2079:MET:CE	1:H:2151:ILE:HD11	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:541:PHE:C	2:G:542:LEU:HD12	2.28	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
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
2:A:1060:ASP:OD1	2:A:1061:VAL:N	2.41	0.53
2:A:2017:ASN:CG	2:A:2058:LEU:HD13	2.29	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:1894:LYS:HZ3	2:G:1901:ILE:HD12	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
2:C:2139:THR:C	2:C:2140:LEU:HD12	2.29	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: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: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
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:C:1387:PHE:HB2	2:C:1391:TYR:CE1	2.44	0.53
2:C:2182:GLN:C	2:C:2184:PRO:HD3	2.29	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
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:1860:GLU:CD	2:G:1861:GLY:H	2.10	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:1715:VAL:HG22	2:A:1739:MET:HE1	1.91	0.53
2:A:1936:VAL:HG13	2:A:1939:SER:OG	2.09	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:1464:THR:HA	2:C:1467:ASP:OD1	2.09	0.53
2:E:686:ARG:O	2:E:690:THR:HB	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1165:LYS:HB2	2:G:1328:MET:HE1	1.91	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
1:F:2211:TRP:CG	1:F:2230:MET:HE1	2.44	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:E:2046:ASN:C	2:E:2048:ASN:H	2.12	0.53
2:G:1073:PHE:CE1	2:G:1133:VAL:HA	2.44	0.53
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:1235:ILE:HG13	2:A:1334:MET:HE3	1.91	0.52
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: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:1089:LEU:HD11	2:E:1119:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:E:2048:ASN:C	2:E:2050:ALA:H	2.12	0.52
2:G:540:ALA:HA	2:G:547:MET:HE3	1.91	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:1881:THR:HG1	2:C:1906:THR:HG1	1.58	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:1068:ALA:HB3	2:E:1105:THR:HG23	1.91	0.52
2:E:1243:THR:HG22	2:E:1244:ARG:N	2.24	0.52
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: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
2:E:1893:SER:HB2	2:E:1990:ASN:CG	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:921:THR:OG1	2:C:922:THR:N	2.42	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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
2:C:2048:ASN:O	2:C:2049:TYR:HB2	2.10	0.52
1:F:2063:MET:HA	1:F:2197:VAL:HG13	1.91	0.52
1:F:2211:TRP:CE3	1:F:2230:MET:HE1	2.45	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:1592:LEU:O	2:G:1592:LEU:HD23	2.10	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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:2309:ALA:CB	2:C:618:THR:HA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:G:1591:MET:HA	2:G:1591:MET:CE	2.39	0.51
1:B:2300:ILE:HG22	1:B:2302:VAL:H	1.74	0.51
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
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
2:A:1827:ASP:OD1	2:A:1829:THR:OG1	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1799:SER:OG	2:A:1861:GLY:O	2.24	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:2214:GLU:O	1:D:2216:LYS:N	2.43	0.51
2:C:1428:VAL:HG13	2:C:1503:PHE:CD1	2.36	0.51
2:C:1492:LYS:HE3	2:C:1796:MET:HE1	1.92	0.51
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
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:1796:MET:HA	2:G:1796:MET:CE	2.40	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: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:1674:GLU:HB2	2:G:1963:LYS:NZ	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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
2:E:472:MET:HG3	2:E:928:TYR:HD1	1.76	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:657:VAL:C	2:G:658:ARG:HD2	2.31	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: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
2:A:1598:THR:HG21	2:A:1716:MET:HE2	1.93	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: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
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: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:1993:ASN:O	2:C:1997:MET:HE3	2.11	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: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:A:2045:GLU:C	2:A:2047:PRO:HD2	2.31	0.50
2:C:504:ASP:OD1	2:C:504:ASP:N	2.42	0.50
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:501:LYS:CG	2:E:727:SER:HB2	2.42	0.50
2:E:503:SER:C	2:E:505:PRO:HD3	2.32	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:803:LYS:O	2:E:803:LYS:HG2	2.11	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
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:803:LYS:HD3	2:C:803:LYS:C	2.32	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:HD12	2:E:623:LEU:O	2.12	0.50
2:E:1530:ARG:HB3	2:E:1537:MET:CE	2.41	0.50
2:E:2139:THR:HG22	2:E:2140:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:452:LEU:CD1	2:G:999:GLU:HG2	2.41	0.50
2:G:514:GLU:C	2:G:515:LEU:HD12	2.32	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1073:PHE:HE1	2:G:1133:VAL:HA	1.76	0.50
2:G:1460:LEU:HD22	2:G:1483:GLN:CD	2.33	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:1372:LEU:C	2:A:1374:PRO:HD3	2.32	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: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:1578:HIS:C	2:G:1579:ILE:HD12	2.32	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:1243:THR:HG22	2:C:1244:ARG:N	2.27	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:562:MET:HE1	2:E:606:ARG:HD2	1.93	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
1:D:2214:GLU:HG2	1:D:2216:LYS:HZ1	1.76	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
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: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: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: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
2:C:461:GLU:O	2:C:464:VAL:HG12	2.11	0.49
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:917:GLY:C	2:G:918:ILE:HD12	2.32	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:F:2267:GLU:HG2	1:F:2268:LYS:N	2.28	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: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: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: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
1:D:2275:LEU:HD21	2:C:1317:ASN:CG	2.33	0.49
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1314:MET:HE3	2:C:1343:LEU:HD21	1.94	0.49
2:C:1428:VAL:HG12	2:C:1500:VAL:HG21	1.95	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
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: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
2:C:2078:THR:OG1	2:C:2104:GLU:O	2.31	0.49
2:E:526:THR:C	2:E:528:THR:H	2.17	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:1591:MET:HE3	2:E:1616:PRO:HG2	1.94	0.49
2:E:1793:SER:HA	2:E:1870:MET:HE1	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1075:TYR:O	2:A:1077:PRO:HD3	2.12	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:1383:GLN:CD	2:A:1409:VAL:HG21	2.33	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:826:ASP:C	2:E:829:PRO:HD2	2.34	0.48
2:E:889:GLY:HA3	2:E:1075:TYR:O	2.12	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: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: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: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:2005:MET:HE1	2:G:2009:ASP:HB3	1.95	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
2:A:1573:VAL:CG1	2:A:1746:PRO:HB3	2.43	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1656:VAL:HA	2:G:1680:ASP:OD1	2.12	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: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: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
2:G:1930:VAL:HG22	2:G:1949:GLN:CD	2.34	0.48
2:G:1995:MET:HE2	2:G:2173:MET:HB2	1.94	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:1530:ARG:HB2	2:A:1537:MET:CE	2.39	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:G:2169:LYS:C	2:G:2185:SER:HB3	2.34	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:PHE:CZ	2:C:1112:LEU:HD22	2.49	0.48
2:C:1246:MET:HB2	2:C:1768:LYS:HZ2	1.79	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:C:2155:LYS:C	2:C:2156:LEU:HD12	2.34	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
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: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:826:ASP:C	2:A:829:PRO:HD2	2.34	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
1:D:2293:SER:HB2	2:C:1175:MET:HE2	1.95	0.48
2:C:541:PHE:C	2:C:542:LEU:HD22	2.34	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: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
1:H:2070:ASN:HD22	1:H:2235:GLN:CD	2.17	0.48
2:G:775:VAL:HG22	2:G:776:HIS:N	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1058:MET:CE	2:G:1063:LEU:HD13	2.44	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: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:1594:MET:HE2	2:E:1757:MET:HB3	1.96	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: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
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
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
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: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:1598:THR:HG21	2:C:1716:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:1314:MET:HE1	2:C:1343:LEU:HG	1.96	0.47
2:C:1470:LEU:C	2:C:1470:LEU:HD12	2.35	0.47
2:C:1491:TRP:CZ3	2:C:1525:ARG:HD2	2.50	0.47
2:C:1792:ILE:HD13	2:C:1797:ILE:CB	2.41	0.47
2:C:2134:GLU:OE1	2:C:2168:LEU:HD22	2.14	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:E:1538:ARG:C	2:E:1539:ILE:HD12	2.34	0.47
2:G:586:ILE:HB	2:G:633:VAL:CA	2.40	0.47
2:G:976:PHE:HA	2:G:979:MET:HE2	1.95	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: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: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:1502:LEU:HD23	2:G:1502:LEU:C	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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
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:1314:MET:HE2	2:G:1343:LEU:CD1	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1242:MET:HE1	2:A:1307:THR:CG2	2.44	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:1983:LEU:HD12	2:C:1983:LEU:C	2.35	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:539:THR:HG22	2:G:547:MET:HE1	1.97	0.47
2:G:1392:ASN:CA	2:G:1417:ARG:HB3	2.32	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: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:G:471:LEU:HD21	2:G:473:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:521:ILE:N	2:G:522:PRO:HD2	2.29	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
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:1171:MET:HG3	2:C:1328:MET:HE3	1.96	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:1063:LEU:HD23	2:C:1163:MET:CE	2.43	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:A:804:HIS:CA	2:A:809:ARG:HD2	2.46	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:1613:VAL:HG13	2:C:1714:VAL:HG23	1.97	0.46
2:C:1998:SER:O	2:C:2002:VAL:HG23	2.15	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: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: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
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:1982:ILE:H	2:E:1982:ILE:CD1	2.26	0.46
2:E:2140:LEU:HD23	2:E:2140:LEU:C	2.36	0.46
1:H:2164:PRO:O	1:H:2168:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:976:PHE:HA	2:C:979:MET:HE2	1.98	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:1063:LEU:HD23	2:A:1163:MET:CE	2.46	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:2279:LEU:HD12	1:D:2279:LEU:N	2.31	0.46
2:C:564:THR:HG21	2:C:697:ILE:HG13	1.97	0.46
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:466:ASP:OD1	2:E:466:ASP:N	2.45	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:1420:ALA:C	2:G:1421:LYS:HG3	2.35	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
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:975:LEU:HG	2:A:979:MET:CE	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:2079:MET:HE2	1:H:2115:ILE:CD1	2.45	0.46
2:G:930:LEU:O	2:G:934:ASN:HB2	2.15	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: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
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: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:1525:ARG:O	2:E:1529:ILE:HG13	2.16	0.46
2:G:467:GLN:O	2:G:471:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:976:PHE:HA	2:G:979:MET:CE	2.46	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:1590:LEU:HD11	2:G:1594:MET:HE2	1.98	0.46
2:G:2082:GLU:HB3	2:G:2098:LYS:NZ	2.31	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
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
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:975:LEU:O	2:A:979:MET:HE2	2.16	0.45
2:A:1465:THR:HA	2:A:1468:LEU:HD23	1.98	0.45
2:A:1715:VAL:HG13	2:A:1739:MET:CE	2.45	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:E:764:VAL:HG11	2:E:802:LEU:HB2	1.96	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:G:529:LEU:CD2	2:G:533:GLN:HB2	2.45	0.45
2:G:1080:GLN:OE1	2:G:1083:LYS:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:636:THR:OG1	2:A:640:LYS:HB3	2.17	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: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: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
2:E:1613:VAL:HG22	2:E:1714:VAL:HG22	1.98	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:1618:ARG:O	2:A:1621:THR:OG1	2.27	0.45
2:A:1650:ARG:HD3	2:A:1653:LEU:HB2	1.98	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:2167:ASP:C	2:E:2168:LEU:HD12	2.36	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:1075:TYR:O	2:G:1077:PRO:HD3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1425:GLY:O	2:G:1426:ARG:HG2	2.17	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: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
2:E:457:LEU:HD23	2:E:458:VAL:N	2.31	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:G:1983:LEU:C	2:G:1983:LEU:HD12	2.37	0.45
2:G:1988:HIS:HB3	2:G:1990:ASN:CG	2.36	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:1191:LYS:HE2	2:A:1195:MET:HE3	1.98	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:803:LYS:HB2	2:C:803:LYS:HZ2	1.80	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:C:1382:ILE:H	2:C:1382:ILE:CD1	2.23	0.45
2:C:1799:SER:HA	2:C:1862:THR:OG1	2.17	0.45
2:C:1881:THR:OG1	2:C:1906:THR:OG1	2.32	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: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:E:2048:ASN:O	2:E:2049:TYR:HB2	2.16	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:771:MET:HE1	2:C:877:ILE:HD12	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2168:THR:O	1:H:2172:LYS:HG3	2.17	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:1796:MET:HA	2:G:1796:MET:HE2	1.97	0.45
2:G:1992:LEU:O	2:G:1996:GLU:HG3	2.16	0.45
2:G:2051:SER:C	2:G:2052:LEU:HG	2.37	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
1:B:2226:PHE:HA	1:B:2230:MET:HE1	1.99	0.45
2:A:973:THR:HG23	2:A:976:PHE:H	1.82	0.45
2:A:1984:SER:C	2:A:1986:GLU:H	2.20	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:1185:PRO:HG2	2:C:1188:ILE:CD1	2.47	0.45
2:C:1591:MET:HE3	2:C:1616:PRO:HG2	1.99	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:1236:GLN:HA	2:E:1334:MET:CE	2.47	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:1246:MET:C	2:G:1247:LEU:HD12	2.37	0.45
2:G:1354:LEU:HD21	2:G:1385:GLN:CB	2.45	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1952:PHE:O	2:G:2005:MET:HA	2.17	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
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: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: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
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
1:D:2220:VAL:HG13	1:D:2222:ASN:N	2.31	0.44
1:F:2158:GLU:C	1:F:2159:LEU:HD13	2.37	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:C:1913:THR:HG22	2:C:1943:LYS:HZ1	1.83	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: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
1:H:2150:LEU:C	1:H:2150:LEU:HD12	2.37	0.44
2:G:1082:GLU:CD	2:G:1126:LEU:HG	2.38	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: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:562:MET:CE	2:C:607:LEU:HD21	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:1268:GLU:CD	2:C:1326:ARG:HH11	2.21	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:A:1391:TYR:O	2:A:1417:ARG:HD2	2.17	0.44
2:A:1537:MET:HE2	2:A:1539:ILE:HD11	1.99	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:N	2:G:1639:ASP:OD1	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
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:1594:MET:C	2:C:1597:PRO:HD2	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:1720:PHE:O	2:A:1728:TYR:HA	2.17	0.44
2:A:1840:LEU:C	2:A:1840:LEU:HD13	2.38	0.44
2:A:1898:ILE:O	2:A:1902:VAL:HG12	2.18	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: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:A:836:HIS:H	2:A:839:MET:HE2	1.83	0.44
2:A:1750:GLY:C	2:A:1751:ARG:HG3	2.38	0.44
2:C:736:GLU:OE1	2:C:759:LYS:NZ	2.40	0.44
2:C:1090:LEU:HD23	2:C:1090:LEU:O	2.18	0.44
2:C:1598:THR:HG21	2:C:1716:MET:HE3	1.99	0.44
2:C:1618:ARG:HG3	2:C:1673:HIS:ND1	2.33	0.44
2:C:1913:THR:HA	2:C:1943:LYS:HZ1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1171:MET:HE1	2:A:1328:MET:HB3	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: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: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
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:1491:TRP:CZ2	2:G:1532:GLN:HG3	2.53	0.44
2:G:1889:LEU:HD12	2:G:1889:LEU:N	2.32	0.44
2:A:472:MET:HE2	2:A:928:TYR:HA	2.00	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:1242:MET:HE1	2:A:1307:THR:HG22	2.00	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: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:989:GLY:C	2:E:991:GLU:H	2.21	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:727:SER:C	2:G:729:ARG:H	2.21	0.44
2:G:1241:PRO:CG	2:G:1821:SER:HB2	2.48	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
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: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:1622:ARG:HH22	2:E:1658:GLU:CD	2.21	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:2216:LYS:HD3	1:H:2216:LYS:C	2.39	0.43
1:H:2308:PHE:CE1	2:G:639:GLU:HB3	2.52	0.43
2:G:1515:MET:O	2:G:1518:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1743:ALA:C	2:G:1744:LEU:HD12	2.38	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:1061:VAL:HG13	2:A:1062:GLU:N	2.33	0.43
2:A:1191:LYS:NZ	2:A:1214:LEU:O	2.38	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:2054:LYS:C	2:A:2054:LYS:HD3	2.39	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: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:862:THR:OG1	2:C:863:ALA:N	2.48	0.43
2:C:1037:ALA:CB	2:C:1047:MET:HG3	2.47	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
2:E:1398:LEU:HD21	2:E:1552:ILE:CD1	2.48	0.43
2:E:1992:LEU:HD23	2:E:1992:LEU:C	2.39	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:1033:LEU:CD1	2:G:1047:MET:HE3	2.48	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:1084:LEU:C	2:A:1084:LEU:HD12	2.38	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:729:ARG:HH12	2:C:906:ALA:HB3	1.82	0.43
2:C:1468:LEU:HD21	2:C:1494:ARG:NH1	2.34	0.43
2:C:1860:GLU:HG2	2:C:1862:THR:HB	2.00	0.43
2:C:2032:ASN:N	2:C:2036:ASP:OD1	2.50	0.43
2:C:2156:LEU:N	2:C:2156:LEU:HD12	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:2208:GLY:HA2	1:F:2230:MET:HE3	2.00	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: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
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
2:A:593:LYS:O	2:A:596:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:660:ILE:CD1	2:A:696:ILE:HG12	2.46	0.43
2:A:1241:PRO:CG	2:A:1821:SER:HB2	2.49	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:2092:ASP:CG	1:D:2095:VAL:HG12	2.39	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:1890:SER:O	2:E:1893:SER:OG	2.24	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2044:THR:N	2:A:1098:LYS:HZ1	2.17	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:1715:VAL:HG22	2:A:1739:MET:CE	2.48	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: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:623:LEU:O	2:E:624:THR:OG1	2.21	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:565:MET:CE	2:G:633:VAL:HG21	2.47	0.43
2:G:628:ILE:HD12	2:G:628:ILE:C	2.39	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:2029:TYR:HH	2:A:2051:SER:HG	1.58	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: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
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: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:1886:LEU:HG	2:G:1887:LEU:HD22	2.00	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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
1:H:2211:TRP:CZ2	1:H:2226:PHE:HB2	2.54	0.42
1:H:2253:LYS:HZ2	1:H:2285:GLN:HG3	1.83	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: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
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: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:479:MET:HE2	2:E:483:THR:HG21	2.00	0.42
2:E:585:LYS:HG2	2:E:632:GLN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:688:GLU:OE1	2:E:972:TYR:OH	2.32	0.42
2:E:1016:SER:CB	2:E:1018:LEU:HD13	2.49	0.42
2:E:1054:ILE:HG23	2:E:1058:MET:HE2	1.99	0.42
2:E:1590:LEU:HD21	2:E:1594:MET:HE1	2.00	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:913:THR:HG1	2:G:914:TYR:HD1	1.67	0.42
2:G:1404:GLY:CA	2:G:1744:LEU:HD21	2.50	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:1213:LEU:HD23	2:C:1213:LEU:C	2.39	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: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
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
1:B:2085:LYS:O	1:B:2089:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1407:LYS:HZ3	2:A:1407:LYS:CA	2.32	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:1895:LEU:HD23	2:A:1895:LEU:C	2.39	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: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
2:G:670:ASP:OD1	2:G:671:ASP:N	2.52	0.42
2:G:1054:ILE:HG23	2:G:1058:MET:HE2	2.01	0.42
2:G:1720:PHE:CZ	2:G:1729:ILE:HD11	2.54	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:562:MET:HE3	2:E:606:ARG:HD2	2.01	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
2:E:1965:GLN:O	2:E:1966:GLU:HB2	2.20	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
1:B:2079:MET:HE2	1:B:2115:ILE:HG21	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:517:GLU:HA	2:C:520:ARG:HD3	2.02	0.42
2:C:546:ASN:C	2:C:715:VAL:HG22	2.40	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:1206:ASP:CG	2:C:1209:ARG:HG2	2.40	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
2:C:2006:TRP:CG	2:C:2007:ASP:N	2.86	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: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
2:G:2170:LEU:HD23	2:G:2170:LEU:C	2.39	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:479:MET:HA	2:A:479:MET:HE3	2.00	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: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:665:ILE:C	2:E:667:LEU:H	2.24	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:1487:LEU:HD23	2:E:1487:LEU:C	2.40	0.42
2:E:1504:ILE:HG12	2:E:1540:VAL:HB	2.00	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
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:O	2:G:2140:LEU:HD22	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:2052:LEU:C	2:A:2052:LEU:HD23	2.40	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:651:ILE:HA	2:C:654:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1971:LYS:HZ3	2:C:2001:VAL:HG11	1.83	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: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:1825:LEU:C	2:G:1825:LEU:HD12	2.40	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:1383:GLN:NE2	2:A:1409:VAL:HG21	2.35	0.42
2:A:1398:LEU:C	2:A:1398:LEU:HD23	2.40	0.42
2:A:1586:HIS:ND1	2:A:1589:SER:OG	2.44	0.42
2:A:1598:THR:HG21	2:A:1716:MET:HE3	2.01	0.42
2:A:1642:LEU:CD2	2:A:1646:VAL:HG12	2.49	0.42
2:A:1716:MET:HE3	2:A:1716:MET:HB2	1.94	0.42
2:A:2077:ILE:CG2	2:A:2103:ARG:HG3	2.50	0.42
2:A:2130:LEU:CD2	2:A:2172:LEU:HD13	2.45	0.42
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:1398:LEU:HD23	2:C:1398:LEU:C	2.38	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:C:1794:THR:C	2:C:1795:LYS:HD2	2.39	0.42
2:E:802:LEU:HD12	2:E:802:LEU:C	2.40	0.42
2:E:1060:ASP:N	2:E:1060:ASP:OD1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1033:LEU:HD11	2:G:1047:MET:HE3	2.02	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:1213:LEU:HD23	2:A:1213:LEU:C	2.40	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
2:E:492:GLU:O	2:E:738:ILE:HA	2.19	0.41
2:E:674:PRO:HB3	2:E:943:LEU:HD12	2.02	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: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: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
2:A:472:MET:HE1	2:A:928:TYR:HA	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1353:LEU:HD23	2:C:1353:LEU:C	2.41	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:457:LEU:HD23	2:E:457:LEU:C	2.41	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:1672:TYR:CE2	2:G:1681:LYS:HG2	2.56	0.41
2:G:1812:PHE:O	2:G:1816:LEU:HB2	2.20	0.41
1:B:2245:PHE:CD2	2:A:1316:PRO:HB3	2.55	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
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:1487:LEU:HD23	2:C:1487:LEU:C	2.41	0.41
2:C:1682:ARG:HA	2:C:1685:LYS:HE3	2.02	0.41
2:C:1936:VAL:O	2:C:1939:SER:OG	2.30	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:1559:LYS:O	2:E:1561:HIS:N	2.51	0.41
2:E:1977:SER:C	2:E:1979:ILE:H	2.22	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: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:1922:LYS:HD3	2:G:1937:TRP:CZ3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1968:ILE:HD12	2:G:1969:LEU:N	2.35	0.41
2:G:1976:LEU:C	2:G:1976:LEU:HD12	2.40	0.41
2:G:2098:LYS:N	2:G:2155:LYS:HG3	2.35	0.41
2:A:1195:MET:HE3	2:A:1214:LEU:O	2.20	0.41
1:D:2159:LEU:C	1:D:2161:TYR:H	2.24	0.41
1:D:2182:ASN:CG	1:D:2183:GLN:H	2.24	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
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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:526:THR:OG1	2:E:528:THR:O	2.38	0.41
2:E:988:VAL:O	2:E:990:ALA:N	2.53	0.41
2:E:1678:GLN:H	2:E:1678:GLN:CD	2.22	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:828:LEU:C	2:A:830:TYR:H	2.24	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
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
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: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:G:1899:LEU:HB3	2:G:1997:MET:HE1	2.02	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:1426:ARG:NH2	2:A:1472:GLU:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:D:2150:LEU:C	1:D:2150:LEU:HD12	2.41	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:985:LEU:HD23	2:E:985:LEU:C	2.41	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
2:G:2171:PHE:HB3	2:G:2182:GLN:C	2.41	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:639:GLU:O	2:G:643:VAL:HG12	2.20	0.41
2:G:771:MET:HE2	2:G:773:ILE:HD11	2.03	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
2:G:1862:THR:C	2:G:1863:VAL:HG22	2.41	0.41
1:B:2096:GLN:HG2	1:B:2153:THR:O	2.20	0.41
2:A:498:PRO:HB3	2:A:733:LEU:C	2.41	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:1796:MET:HA	2:A:1796:MET:CE	2.51	0.41
2:A:1817:LEU:N	2:A:1817:LEU:HD12	2.35	0.41
2:A:1914:ARG:HB2	2:A:1917:GLU:CD	2.41	0.41
2:A:1957:LEU:HB3	2:A:1958:PRO:HD2	2.02	0.41
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:1511:LEU:HD12	2:C:1511:LEU:C	2.41	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:1979:ILE:HD12	2:C:1979:ILE:C	2.41	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:498:PRO:HB3	2:E:733:LEU:C	2.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1229:LYS:HD3	2:E:1260:ASP:HB2	2.01	0.41
2:E:2097:LEU:HD23	2:E:2097:LEU:C	2.40	0.41
1:H:2071:ASP:C	1:H:2073:ASP:H	2.25	0.41
2:G:456:LYS:HB3	2:G:992:TYR:OH	2.21	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: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: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:565:MET:HE2	2:G:607:LEU:HD11	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2000:MET:CE	2:G:2007:ASP:HB3	2.50	0.41
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:910:GLN:H	2:A:910:GLN:CD	2.23	0.40
2:A:975:LEU:HG	2:A:979:MET:HE2	2.03	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
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:1235:ILE:O	2:E:1334:MET:HE3	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:937:LEU:HA	2:C:938:PRO:HD3	1.92	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:479:MET:CE	2:E:483:THR:HG21	2.51	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:1591:MET:HA	2:G:1591:MET:HE2	2.02	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
2:G:1886:LEU:HD12	2:G:1886:LEU:C	2.42	0.40
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
2:C:1476:LEU:HD23	2:C:1476:LEU:C	2.42	0.40
2:C:1546:LEU:C	2:C:1773:ALA:HB1	2.42	0.40
2:C:1895:LEU:HD11	2:C:1997:MET:HE1	2.04	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:1481:PRO:HB3	2:E:1519:TYR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:D:2084:LEU:O	1:D:2088:ILE:HG13	2.21	0.40
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: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: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:2006:TRP:CG	2:E:2007:ASP:N	2.89	0.40
1:H:2237:LEU:C	1:H:2238:LEU:HD12	2.41	0.40
2:G:1116:ILE:HG22	2:G:1172:TRP:CD1	2.56	0.40
2:G:1455:LYS:HD2	2:G:1475:ASP:CG	2.42	0.40
2:G:1501:GLU:H	2:G:1501:GLU:HG3	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1843:THR:O	2:G:1846:LYS:HG2	2.21	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:2089:ILE:HD12	2:A:2089:ILE:C	2.41	0.40
2:A:2169:LYS:HD3	2:A:2185:SER:CB	2.51	0.40
1:D:2051:ILE:C	1:D:2051:ILE:HD12	2.42	0.40
1:D:2146:GLU:HG3	1:D:2148:LEU:HD11	2.03	0.40
2:C:716:ASP:OD1	2:C:719:LYS:HG2	2.22	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: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: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:1425:GLY:C	2:G:1426:ARG:HG2	2.41	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 [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	B	264/276 (96%)	241 (91%)	19 (7%)	4 (2%)	10 44
1	D	259/276 (94%)	239 (92%)	13 (5%)	7 (3%)	5 30
1	F	261/276 (95%)	237 (91%)	22 (8%)	2 (1%)	19 58
1	H	265/276 (96%)	243 (92%)	13 (5%)	9 (3%)	3 24
2	A	1736/1772 (98%)	1619 (93%)	105 (6%)	12 (1%)	22 61
2	C	1686/1772 (95%)	1537 (91%)	130 (8%)	19 (1%)	14 51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	E	1736/1772 (98%)	1580 (91%)	127 (7%)	29 (2%)	9	42
2	G	1698/1772 (96%)	1537 (90%)	131 (8%)	30 (2%)	8	41
All	All	7905/8192 (96%)	7233 (92%)	560 (7%)	112 (1%)	11	46

All (112) Ramachandran outliers are listed below:

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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 [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	234/241 (97%)	225 (96%)	9 (4%)	33	67
1	D	231/241 (96%)	224 (97%)	7 (3%)	41	73
1	F	235/241 (98%)	227 (97%)	8 (3%)	37	70
1	H	235/241 (98%)	231 (98%)	4 (2%)	60	83
2	A	1534/1562 (98%)	1475 (96%)	59 (4%)	33	67
2	C	1503/1562 (96%)	1439 (96%)	64 (4%)	29	64
2	E	1537/1562 (98%)	1486 (97%)	51 (3%)	38	71
2	G	1511/1562 (97%)	1469 (97%)	42 (3%)	43	74
All	All	7020/7212 (97%)	6776 (96%)	244 (4%)	36	69

All (244) 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	2150	LEU
1	B	2152	HIS
1	B	2199	LEU
1	B	2272	HIS
2	A	452	LEU
2	A	462	ASN
2	A	467	GLN
2	A	479	MET
2	A	489	LYS
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	800	GLN
2	A	801	ILE
2	A	803	LYS

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Mol	Chain	Res	Type
2	A	824	LEU
2	A	935	GLN
2	A	936	GLN
2	A	1041	TYR
2	A	1044	HIS
2	A	1174	THR
2	A	1209	ARG
2	A	1294	LEU
2	A	1329	HIS
2	A	1407	LYS
2	A	1423	ASP
2	A	1436	LEU
2	A	1456	GLU
2	A	1460	LEU
2	A	1468	LEU
2	A	1470	LEU
2	A	1473	GLN
2	A	1475	ASP
2	A	1519	TYR
2	A	1525	ARG
2	A	1609	GLN
2	A	1812	PHE
2	A	1830	HIS
2	A	1843	THR
2	A	1844	THR
2	A	1876	ASN
2	A	1897	THR
2	A	1899	LEU
2	A	1911	ILE
2	A	1927	HIS
2	A	1965	GLN
2	A	1986	GLU
2	A	2009	ASP
2	A	2017	ASN
2	A	2018	PHE
2	A	2042	ASN
2	A	2048	ASN
2	A	2054	LYS
2	A	2055	ASP
2	A	2076	ASP
2	A	2111	PHE
2	A	2165	LYS

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Mol	Chain	Res	Type
2	A	2168	LEU
2	A	2185	SER
1	D	2047	ARG
1	D	2143	LYS
1	D	2184	ASN
1	D	2186	LEU
1	D	2216	LYS
1	D	2218	PRO
1	D	2274	LYS
2	C	465	PHE
2	C	599	GLN
2	C	607	LEU
2	C	623	LEU
2	C	625	LYS
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	825	LYS
2	C	871	LEU
2	C	894	LEU
2	C	914	TYR
2	C	1041	TYR
2	C	1195	MET
2	C	1299	GLU
2	C	1343	LEU
2	C	1356	LEU
2	C	1359	LEU
2	C	1379	PHE
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	1515	MET
2	C	1519	TYR

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Mol	Chain	Res	Type
2	C	1550	ARG
2	C	1598	THR
2	C	1645	GLU
2	C	1685	LYS
2	C	1690	ASN
2	C	1758	LEU
2	C	1780	LEU
2	C	1795	LYS
2	C	1798	GLU
2	C	1859	ASP
2	C	1862	THR
2	C	1885	PHE
2	C	1889	LEU
2	C	1924	ILE
2	C	1954	ARG
2	C	1977	SER
2	C	1986	GLU
2	C	2018	PHE
2	C	2052	LEU
2	C	2058	LEU
2	C	2063	LEU
2	C	2074	TYR
2	C	2079	LEU
2	C	2087	ASP
2	C	2106	GLU
2	C	2119	PHE
2	C	2128	TRP
2	C	2134	GLU
2	C	2135	GLU
2	C	2158	PHE
2	C	2166	HIS
1	F	2053	THR
1	F	2070	ASN
1	F	2117	CYS
1	F	2159	LEU
1	F	2172	LYS
1	F	2184	ASN
1	F	2224	GLN
1	F	2301	TRP
2	E	473	THR
2	E	481	GLU
2	E	507	ASP

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Mol	Chain	Res	Type
2	E	508	GLN
2	E	521	ILE
2	E	541	PHE
2	E	542	LEU
2	E	573	ARG
2	E	576	LYS
2	E	582	ASP
2	E	584	PHE
2	E	606	ARG
2	E	632	GLN
2	E	633	VAL
2	E	650	ASP
2	E	702	THR
2	E	719	LYS
2	E	733	LEU
2	E	769	ASN
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	1039	HIS
2	E	1041	TYR
2	E	1101	ILE
2	E	1240	GLN
2	E	1246	MET
2	E	1423	ASP
2	E	1519	TYR
2	E	1758	LEU
2	E	1816	LEU
2	E	1879	TYR
2	E	1891	HIS
2	E	1930	VAL
2	E	1934	ASN
2	E	1982	ILE
2	E	2009	ASP
2	E	2033	ASP
2	E	2045	GLU
2	E	2054	LYS
2	E	2070	THR
2	E	2071	ASN

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Mol	Chain	Res	Type
2	E	2073	LYS
2	E	2074	TYR
2	E	2078	THR
2	E	2088	ASN
2	E	2138	LYS
2	E	2190	VAL
1	H	2069	ASP
1	H	2110	ASP
1	H	2135	HIS
1	H	2301	TRP
2	G	501	LYS
2	G	509	ASN
2	G	671	ASP
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	1519	TYR
2	G	1608	ASP
2	G	1639	ASP
2	G	1640	ARG
2	G	1722	GLU
2	G	1860	GLU
2	G	1874	TYR
2	G	1895	LEU
2	G	1969	LEU
2	G	1979	ILE
2	G	2025	VAL

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Mol	Chain	Res	Type
2	G	2044	GLU
2	G	2052	LEU
2	G	2070	THR
2	G	2115	VAL
2	G	2127	ASN
2	G	2135	GLU
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 (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	2082	ASN
2	A	800	GLN
2	A	813	GLN
2	C	622	GLN
2	C	770	GLN
2	C	855	HIS
2	C	1180	GLN
2	C	1483	GLN
2	C	1509	HIS
2	C	1934	ASN
1	F	2182	ASN
1	F	2184	ASN
1	F	2290	HIS
2	E	769	ASN
2	E	800	GLN
2	E	936	GLN
2	E	1673	HIS
2	E	2071	ASN
2	E	2127	ASN
1	H	2070	ASN
1	H	2183	GLN
2	G	959	ASN
2	G	1396	ASN
2	G	1673	HIS
2	G	1988	HIS
2	G	2003	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	E	2201	-	3,3,3	0.77	0	3,3,3	1.35	0
3	ACT	A	2201	-	3,3,3	0.78	0	3,3,3	1.34	0
3	ACT	G	2201	-	3,3,3	0.78	0	3,3,3	1.35	0
3	ACT	C	2201	-	3,3,3	0.77	0	3,3,3	1.36	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	E	2201	ACT	4	0
3	A	2201	ACT	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	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%)	-0.05	3 (1%) 80 69	54, 76, 110, 128	0
1	D	263/276 (95%)	-0.06	1 (0%) 92 89	56, 73, 101, 130	0
1	F	265/276 (96%)	-0.02	4 (1%) 73 61	53, 83, 117, 143	0
1	H	267/276 (96%)	-0.01	2 (0%) 87 81	54, 77, 111, 132	0
2	A	1738/1772 (98%)	0.01	25 (1%) 75 63	39, 73, 123, 171	0
2	C	1702/1772 (96%)	0.12	60 (3%) 44 28	49, 86, 159, 209	0
2	E	1740/1772 (98%)	0.06	24 (1%) 75 63	48, 80, 132, 205	0
2	G	1710/1772 (96%)	0.27	106 (6%) 20 11	48, 92, 171, 209	0
All	All	7951/8192 (97%)	0.09	225 (2%) 53 37	39, 81, 154, 209	0

All (225) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	G	2171	PHE	4.9
2	G	2142	ALA	4.6
2	C	2170	LEU	4.6
2	A	1985	SER	4.5
2	G	2088	ASN	4.5
2	G	1475	ASP	4.5
2	G	2038	MET	4.4
1	B	2217	ASP	4.4
2	G	1838	SER	4.4
2	G	2096	TYR	4.1
2	C	1416	LEU	4.1
2	G	800	GLN	4.1
2	G	2155	LYS	4.1
2	G	2003	GLN	4.0
2	G	2039	GLU	4.0
2	E	796	ASP	3.9

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Mol	Chain	Res	Type	RSRZ
2	A	800	GLN	3.9
2	C	1504	ILE	3.9
2	G	2101	ILE	3.9
2	G	1361	VAL	3.9
2	C	2185	SER	3.9
2	E	508	GLN	3.8
2	G	2172	LEU	3.8
2	G	1541	GLY	3.8
2	C	2127	ASN	3.8
2	G	2042	ASN	3.7
2	G	1428	VAL	3.7
2	G	2094	PRO	3.7
2	A	2075	PRO	3.7
2	G	2153	ASN	3.7
2	G	1427	ALA	3.7
2	A	809	ARG	3.6
2	G	1384	THR	3.6
2	C	1987	GLY	3.5
2	C	1856	MET	3.5
2	E	2084	ASP	3.5
2	G	2041	MET	3.5
2	G	2100	HIS	3.5
2	C	2035	PHE	3.4
2	G	1501	GLU	3.4
2	G	803	LYS	3.4
2	G	1495	LYS	3.4
2	C	1502	LEU	3.4
2	C	2072	ASN	3.4
2	A	832	PHE	3.4
2	C	1362	SER	3.3
2	E	2161	PRO	3.3
2	G	2089	ILE	3.3
2	G	2170	LEU	3.3
2	C	2110	GLU	3.2
2	G	2151	GLU	3.2
2	G	2181	ASP	3.2
2	C	1867	ASN	3.2
2	G	2173	MET	3.2
2	G	1476	LEU	3.1
2	C	1495	LYS	3.1
2	C	1865	PRO	3.1
2	G	857	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	1098	LYS	3.1
2	G	1365	LYS	3.1
2	G	1502	LEU	3.1
2	G	2034	ILE	3.1
2	G	1499	THR	3.0
2	C	800	GLN	3.0
2	E	506	THR	3.0
2	G	502	ARG	3.0
2	C	813	GLN	3.0
2	A	810	GLU	3.0
2	C	1413	PHE	3.0
2	A	804	HIS	3.0
2	C	1420	ALA	2.9
2	A	829	PRO	2.9
2	C	1891	HIS	2.9
2	C	2108	ASP	2.9
2	G	1809	PHE	2.9
2	C	1902	VAL	2.9
2	G	1834	SER	2.8
2	G	2084	ASP	2.8
2	A	2039	GLU	2.8
2	G	1417	ARG	2.8
2	G	812	LEU	2.8
2	C	1379	PHE	2.7
2	C	1852	ARG	2.7
2	G	1397	VAL	2.7
2	G	2014	GLN	2.7
2	G	2141	LEU	2.7
2	G	1473	GLN	2.7
2	G	2159	VAL	2.7
2	G	1362	SER	2.7
2	G	1360	PRO	2.7
2	G	1410	CYS	2.7
2	G	805	ASP	2.7
2	E	2034	ILE	2.7
2	G	1415	LEU	2.6
2	G	2152	LEU	2.6
2	A	858	VAL	2.6
1	F	2236	LEU	2.6
2	G	2158	PHE	2.6
1	F	2134	GLN	2.6
2	G	1421	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
2	A	1364	LEU	2.6
2	A	1854	ILE	2.6
2	G	1561	HIS	2.6
2	G	2093	GLU	2.6
2	G	2156	LEU	2.6
2	E	2103	ARG	2.6
2	G	2047	PRO	2.6
2	G	1098	LYS	2.5
2	A	833	GLY	2.5
1	H	2074	ASP	2.5
2	E	2098	LYS	2.5
2	G	2060	GLN	2.5
2	C	1422	LYS	2.5
2	C	1219	ALA	2.5
2	G	1484	TRP	2.5
2	G	2081	PHE	2.5
2	G	1841	VAL	2.5
2	G	1540	VAL	2.5
2	E	911	TYR	2.5
2	G	1695	VAL	2.5
2	A	1971	LYS	2.5
2	C	1367	LYS	2.5
2	C	811	VAL	2.5
2	C	2073	LYS	2.5
2	G	828	LEU	2.5
2	C	2178	VAL	2.4
2	G	1388	ASN	2.4
2	G	1539	ILE	2.4
2	G	2035	PHE	2.4
2	A	801	ILE	2.4
2	G	1837	LEU	2.4
2	G	832	PHE	2.4
2	G	1399	VAL	2.4
2	G	2065	GLN	2.4
2	G	1385	GLN	2.4
2	C	1536	PRO	2.4
2	G	1857	ASP	2.4
2	C	1501	GLU	2.4
2	G	1398	LEU	2.4
2	C	526	THR	2.3
1	H	2156	GLY	2.3
2	C	1994	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
2	E	1649	ILE	2.3
2	G	1861	GLY	2.3
2	C	1949	GLN	2.3
2	C	802	LEU	2.3
2	C	1540	VAL	2.3
2	C	2075	PRO	2.3
2	A	828	LEU	2.3
1	B	2044	THR	2.3
2	E	2041	MET	2.3
2	G	1451	LEU	2.3
2	G	2097	LEU	2.3
2	A	813	GLN	2.3
2	G	2128	TRP	2.3
2	G	2176	SER	2.3
2	C	1410	CYS	2.3
2	C	2129	TRP	2.2
2	G	1392	ASN	2.2
2	G	514	GLU	2.2
2	C	1417	ARG	2.2
2	G	834	ILE	2.2
2	E	2176	SER	2.2
2	G	2175	ASP	2.2
2	A	2139	THR	2.2
2	C	1894	LYS	2.2
2	G	1869	ALA	2.2
2	C	1388	ASN	2.2
2	E	1427	ALA	2.2
2	A	1448	LEU	2.2
2	G	1453	GLY	2.2
2	E	1692	ALA	2.2
2	G	873	ALA	2.2
2	C	1426	ARG	2.2
2	C	2138	LYS	2.2
2	G	1858	GLU	2.2
2	G	2006	TRP	2.2
2	C	502	ARG	2.2
2	G	1504	ILE	2.2
2	C	2006	TRP	2.2
1	D	2115	ILE	2.2
2	G	2154	VAL	2.2
2	C	1845	LEU	2.1
2	G	1503	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
2	G	804	HIS	2.1
2	E	671	ASP	2.1
2	E	574	ASN	2.1
2	G	811	VAL	2.1
2	E	2109	GLU	2.1
2	A	857	GLN	2.1
2	G	1629	LEU	2.1
2	A	2162	SER	2.1
2	C	1893	SER	2.1
2	E	832	PHE	2.1
2	C	1359	LEU	2.1
2	C	1899	LEU	2.1
2	A	805	ASP	2.1
2	C	1855	GLU	2.1
2	G	2009	ASP	2.1
2	G	1416	LEU	2.1
2	E	1813	TYR	2.1
2	G	508	GLN	2.1
2	G	808	THR	2.1
2	A	803	LYS	2.1
2	E	2072	ASN	2.1
2	G	1560	LYS	2.1
2	C	2132	VAL	2.0
2	C	2172	LEU	2.0
2	C	2069	PHE	2.0
2	E	2165	LYS	2.0
1	F	2217	ASP	2.0
2	E	504	ASP	2.0
2	C	1397	VAL	2.0
1	B	2307	ASN	2.0
2	C	2139	THR	2.0
2	E	624	THR	2.0
2	G	1798	GLU	2.0
2	A	856	ILE	2.0
2	C	2134	GLU	2.0
2	G	770	GLN	2.0
2	G	2145	ARG	2.0
1	F	2202	TRP	2.0
2	A	826	ASP	2.0
2	E	583	ALA	2.0
2	C	799	ASN	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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(\AA^2)	Q<0.9
3	ACT	C	2201	4/4	0.62	0.36	80,91,97,98	0
3	ACT	E	2201	4/4	0.85	0.27	87,92,111,111	0
3	ACT	G	2201	4/4	0.85	0.24	84,89,104,104	0
3	ACT	A	2201	4/4	0.88	0.20	63,68,81,81	0

6.5 Other polymers [i](#)

There are no such residues in this entry.