



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 3, 2023 – 11:37 PM EDT

PDB ID : 4V59
Title : Crystal structure of fatty acid synthase complexed with nadp+ from thermomyces lanuginosus at 3.1 angstrom resolution.
Authors : Jenni, S.; Leibundgut, M.; Boehringer, D.; Frick, C.; Mikolasek, B.; Ban, N.
Deposited on : 2007-03-09
Resolution : 3.10 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)
Xtrriage (Phenix) : 1.13
EDS : 2.35.1
buster-report : 1.1.7 (2018)
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) : 2.35.1

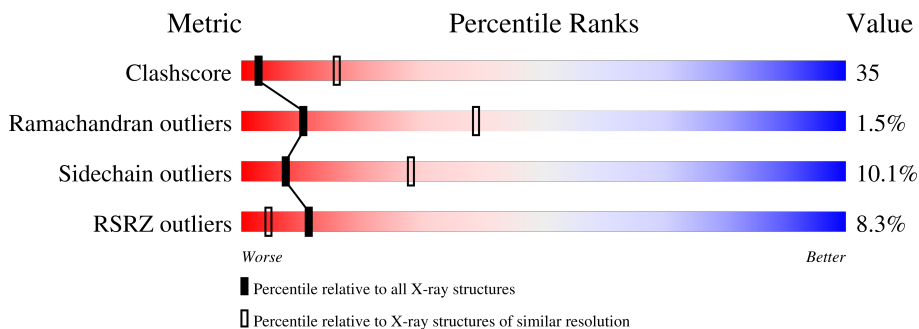
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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))
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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

Mol	Chain	Length	Quality of chain
1	A	1878	 2% 39% 35% 22%
1	B	1878	 2% 40% 34% 22%
1	C	1878	 2% 39% 34% 22%
1	D	1878	 3% 39% 34% 5% 22%
1	E	1878	 3% 38% 35% 22%
1	F	1878	 2% 40% 33% 22%
2	G	2060	 8% 43% 49% 8%

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Mol	Chain	Length	Quality of chain
2	H	2060	
2	I	2060	
2	J	2060	
2	K	2060	
2	L	2060	

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
4	FMN	G	2101	-	-	X	-
4	FMN	H	2101	-	-	X	-
4	FMN	I	2101	-	-	X	-
4	FMN	J	2101	-	-	X	-
4	FMN	K	2101	-	-	X	-
4	FMN	L	2101	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 167247 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1457	11514	7290	2005	2170	49	0	0	0
1	B	1464	11571	7323	2015	2183	50	0	0	0
1	C	1462	11555	7312	2012	2181	50	0	0	0
1	D	1467	11593	7336	2021	2186	50	0	0	0
1	E	1456	11506	7285	2004	2169	48	0	0	0
1	F	1461	11546	7307	2010	2179	50	0	0	0

- Molecule 2 is a protein called FATTY ACID SYNTHASE BETA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	G	2060	16200	10314	2781	3051	54	0	0	0
2	H	2060	16200	10314	2781	3051	54	0	0	0
2	I	2060	16200	10314	2781	3051	54	0	0	0
2	J	2060	16200	10314	2781	3051	54	0	0	0
2	K	2060	16200	10314	2781	3051	54	0	0	0
2	L	2060	16200	10314	2781	3051	54	0	0	0

- Molecule 3 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).



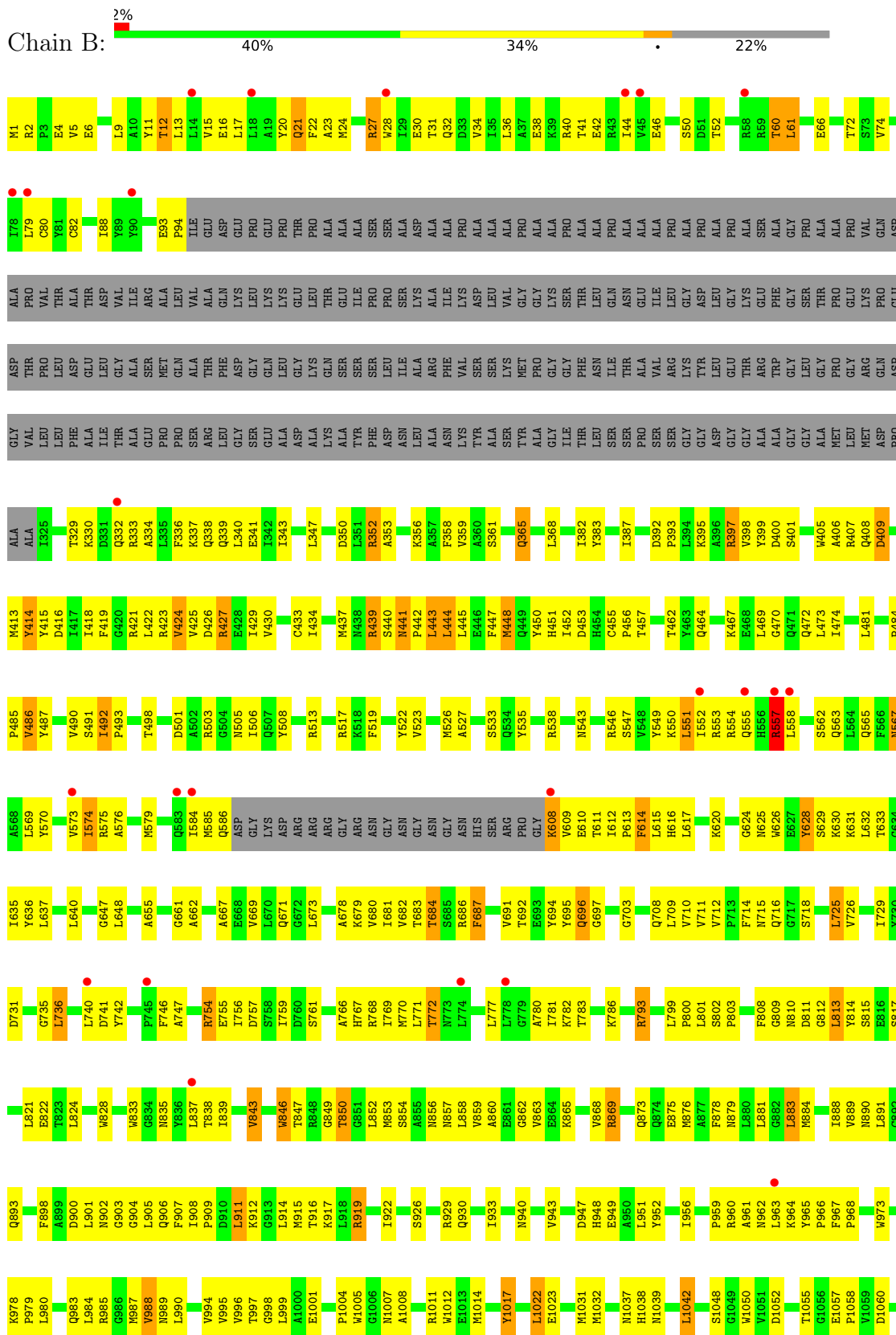
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
3	A	1	48	21	7	17	3	0	0
3	B	1	48	21	7	17	3	0	0
3	C	1	48	21	7	17	3	0	0
3	D	1	48	21	7	17	3	0	0
3	E	1	48	21	7	17	3	0	0
3	F	1	48	21	7	17	3	0	0
3	G	1	48	21	7	17	3	0	0
3	H	1	48	21	7	17	3	0	0
3	I	1	48	21	7	17	3	0	0
3	J	1	48	21	7	17	3	0	0
3	K	1	48	21	7	17	3	0	0
3	L	1	48	21	7	17	3	0	0

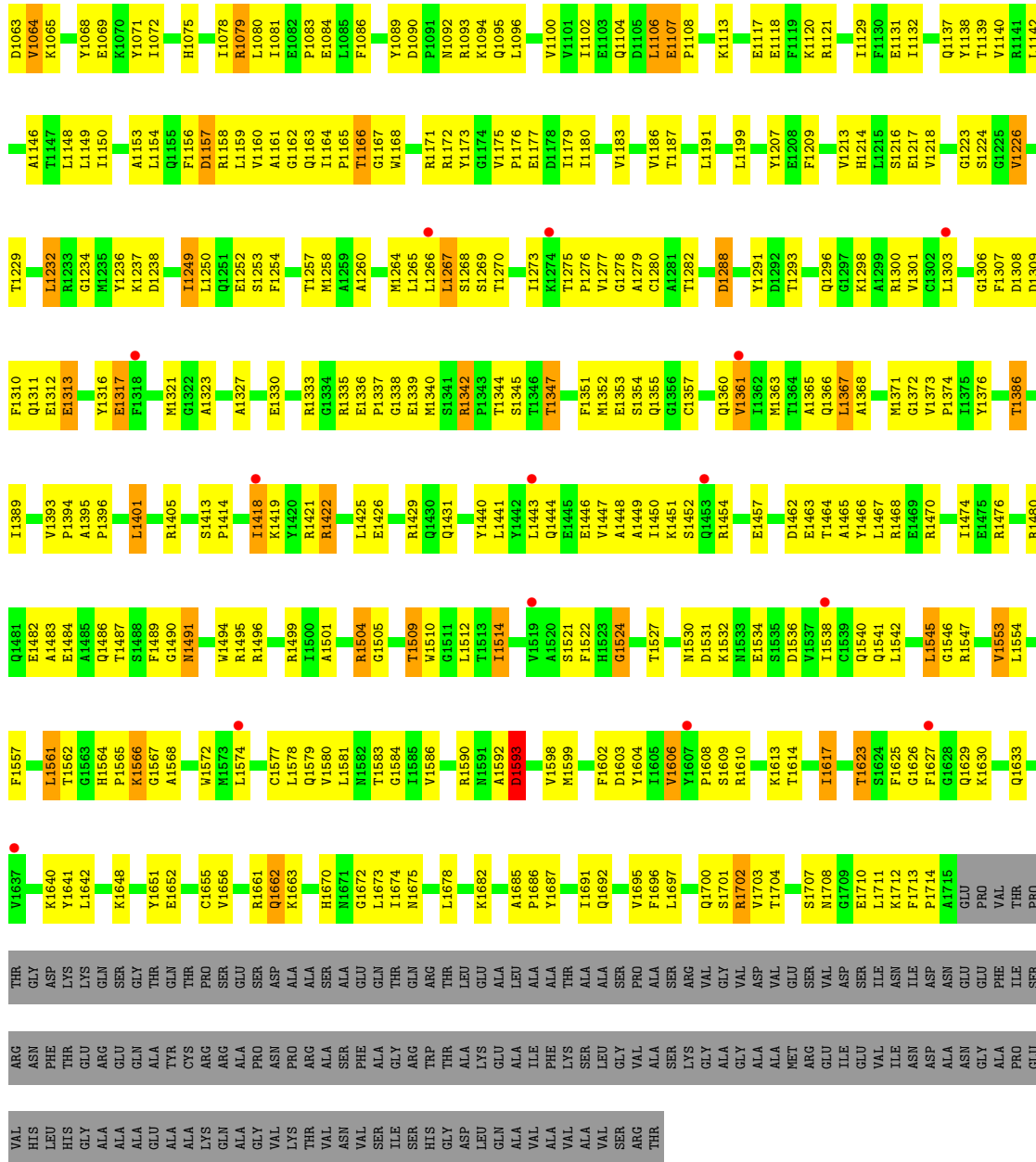
- Molecule 4 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C₁₇H₂₁N₄O₉P).



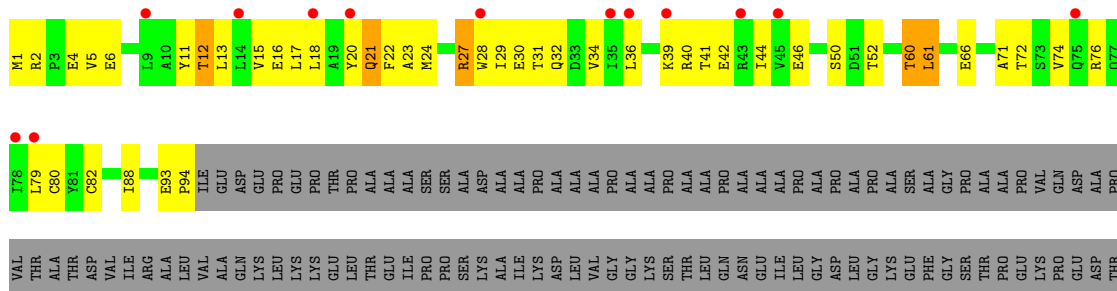
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	G	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	H	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	I	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	J	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	K	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
4	L	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

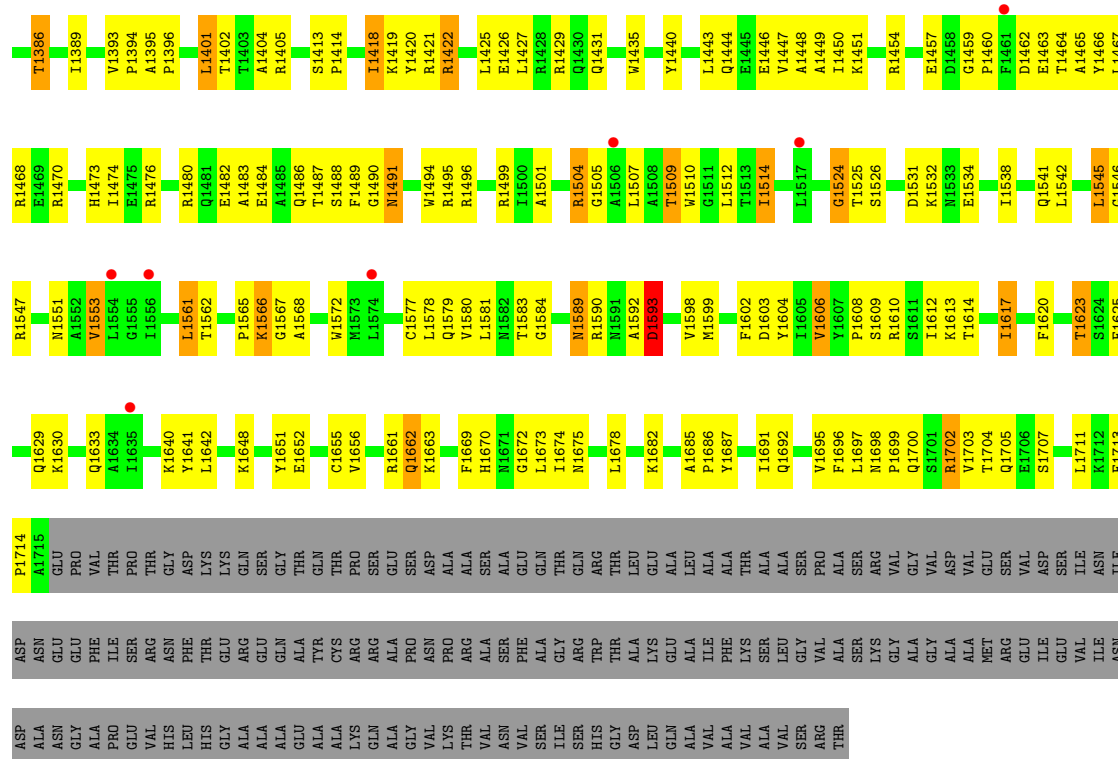
● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS



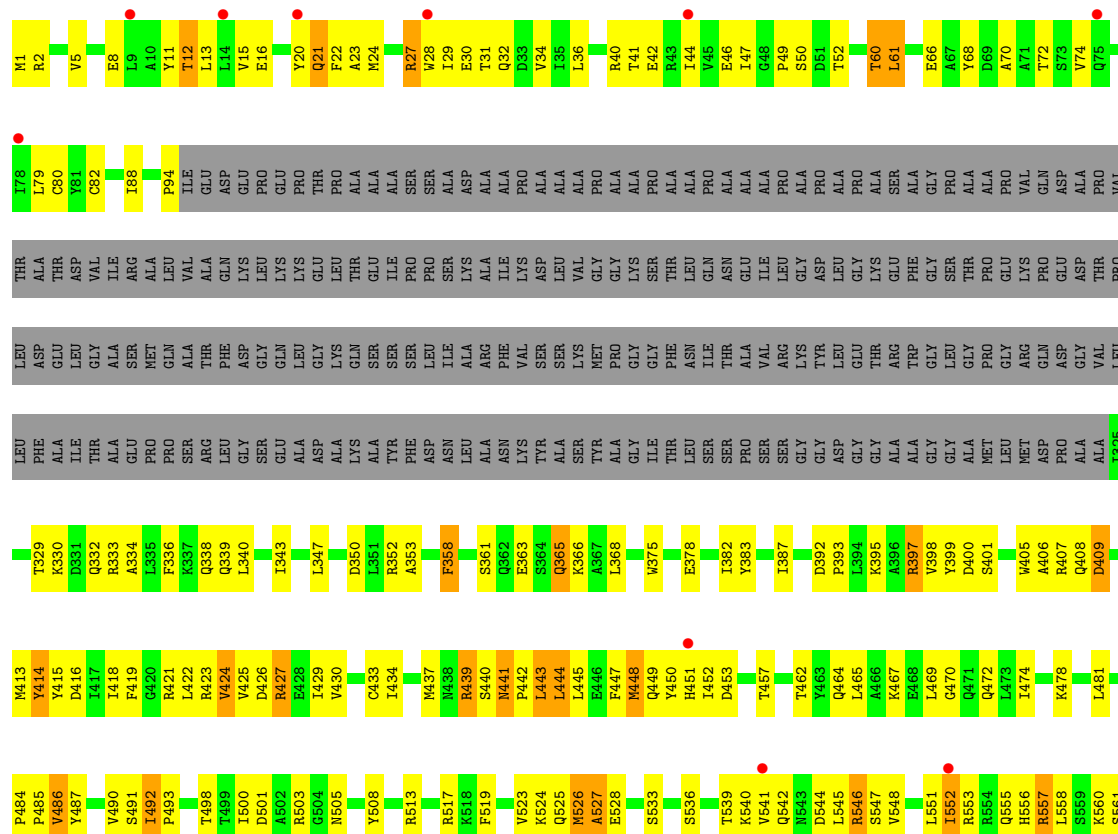


● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

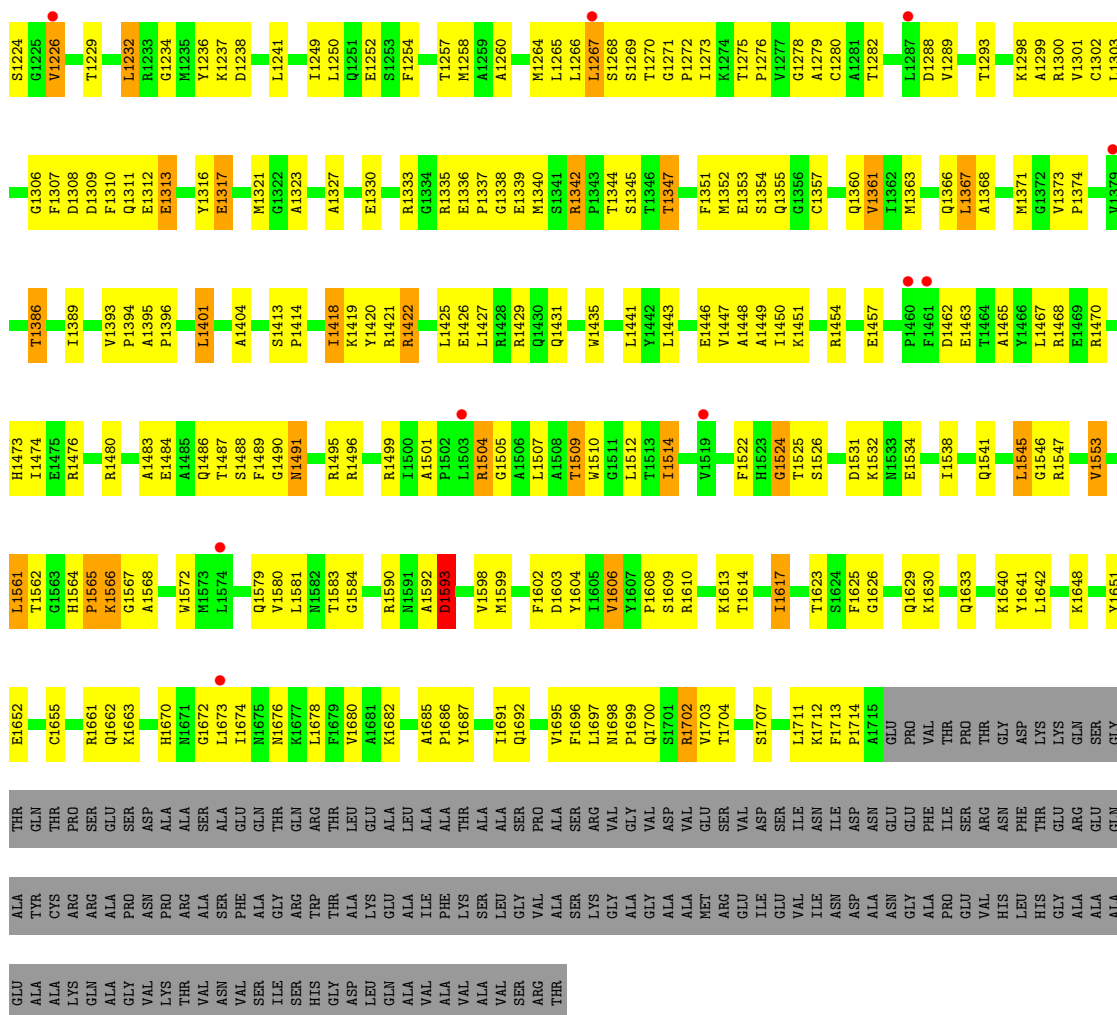




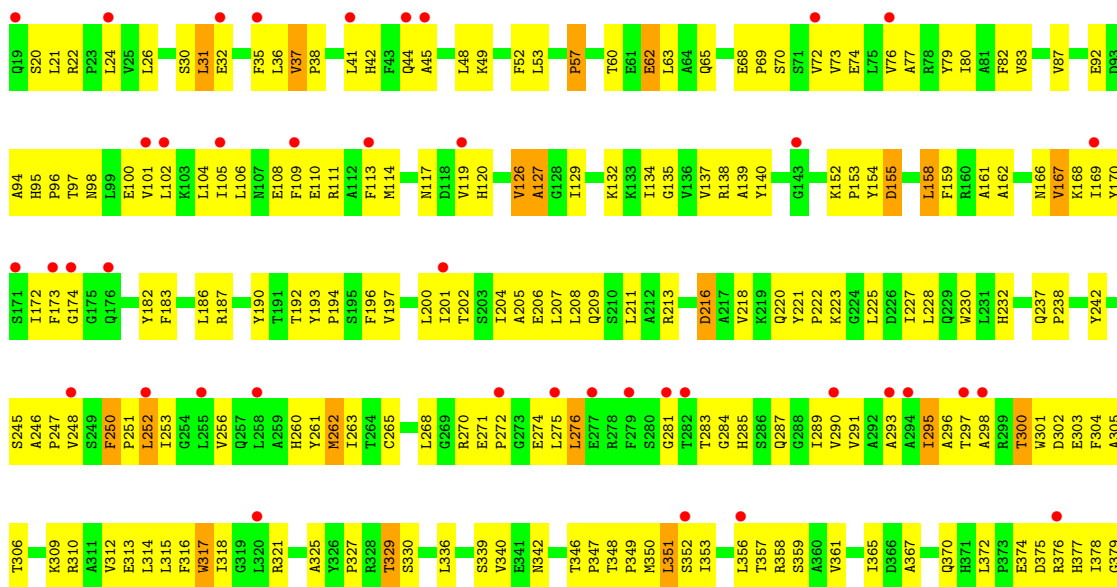
● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

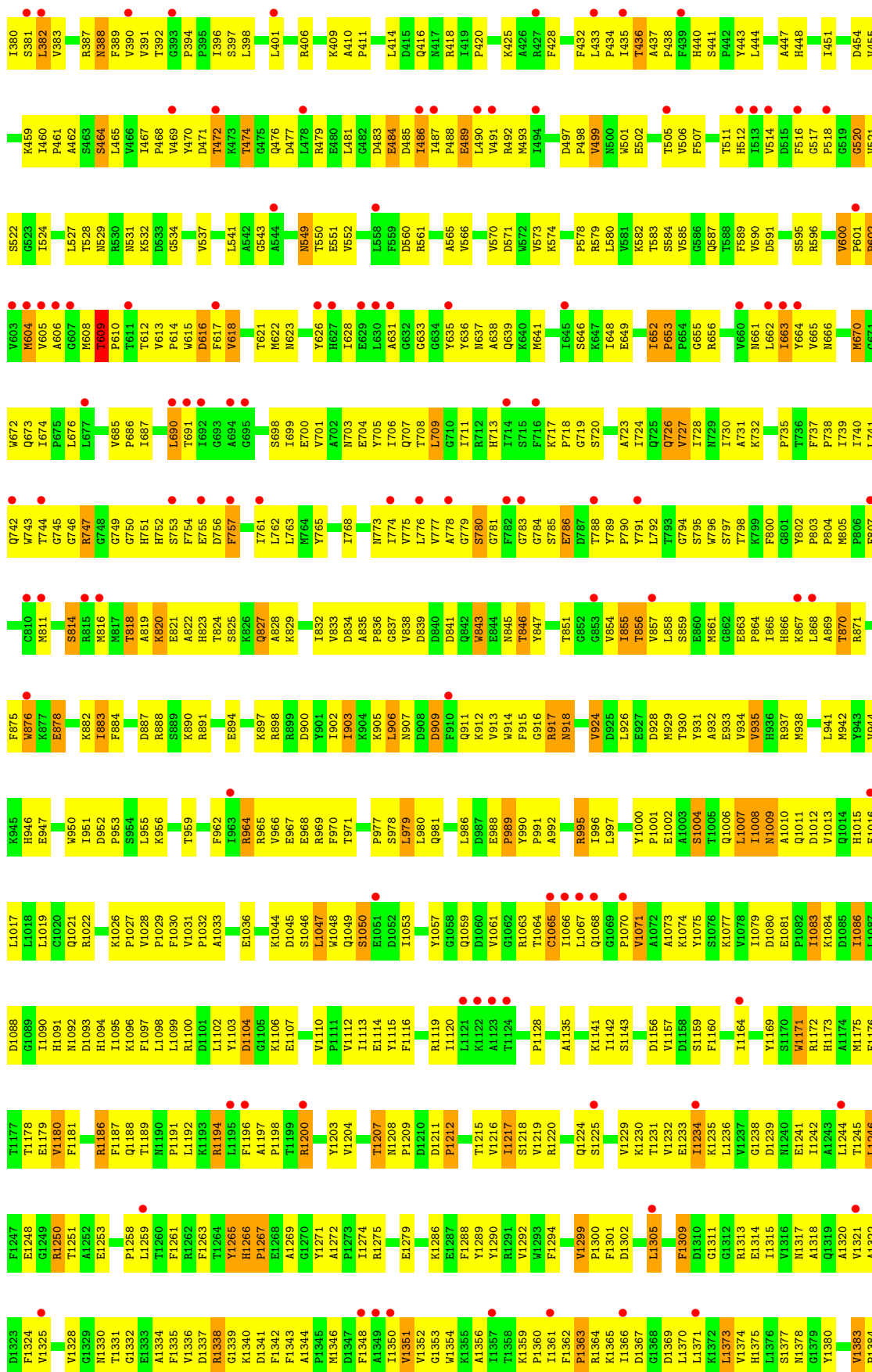


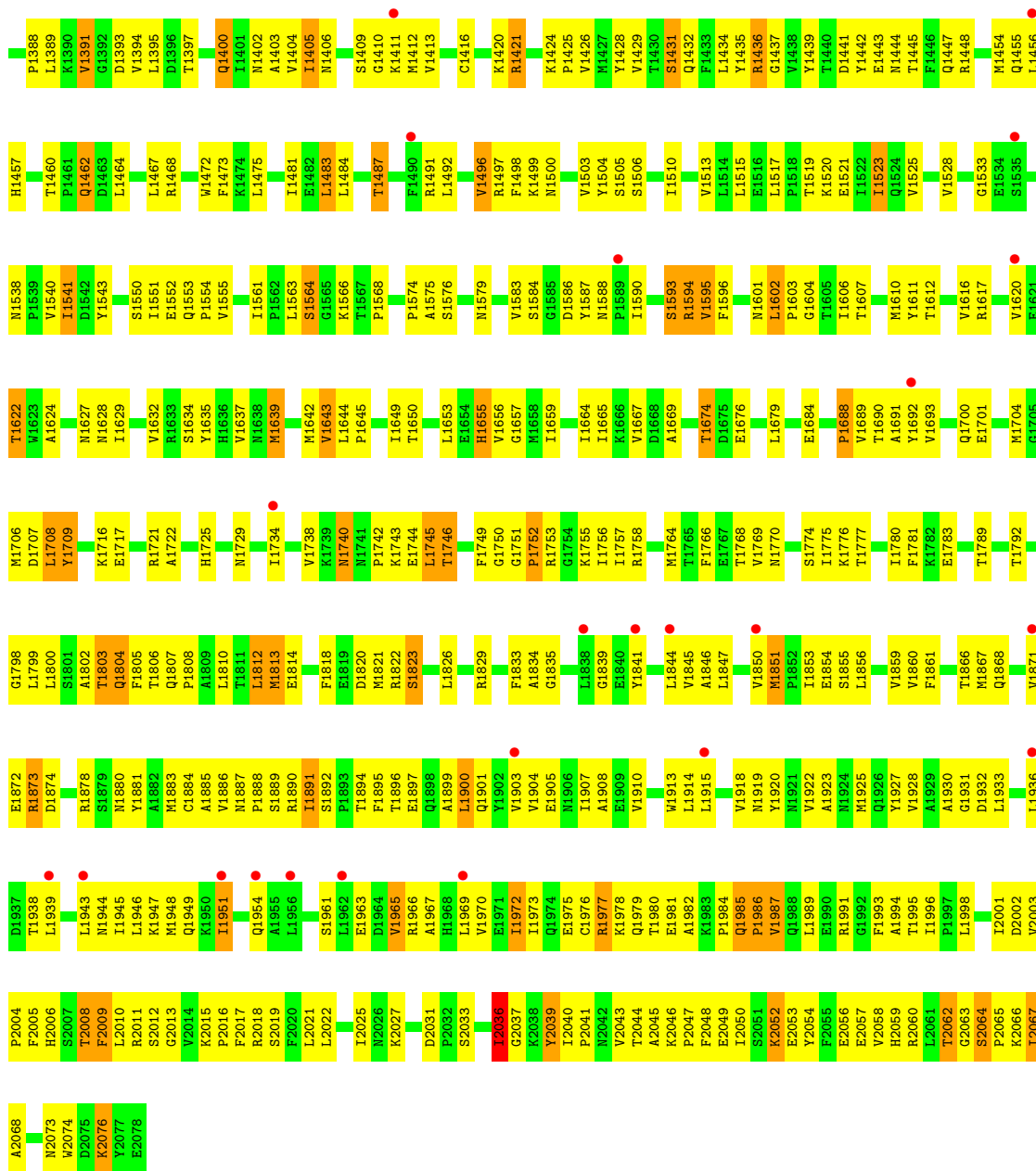
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Y628	S629	R631	R631	T633	G634	L635	L637	L640	G647	T649	L649	F650	Q651	A655	L656	A667	E668	V669	E669	L670	Q671	G672	L673	A678	V680	L681	V682	T683	T684	S685	R686	F687	V691	T692	E693	Y694	Y695	O696	G697	G703	O708	L709	V710	F714	N715							
Q716	G809	D811	G812	L814	R815	S816	S817	L821	E822	T823	L824	R827	W828	E831	W833	L837	L905	T906	I907	V908	I908	S909	G903	G904	R908	A909	D900	Q906	F907	I908	V909	D910	L911	L914	M915	T916	K917	L918	R919	I922	S926	R929	Q930	I933	N940	K941	V942	E946	H948	E949	S950	Q874
E875	M876	F878	L881	G882	L883	M884	P885	V888	R889	N890	L891	Q892	Q893	F898	A899	D900	Q906	F907	I908	V909	D910	L911	L914	M915	T916	K917	L918	R919	I922	S926	R929	Q930	I933	N940	K941	V942	E946	H948	E949	S950	Q874											
Y952	Y956	P959	R960	A961	N962	L963	K964	P966	F967	P968	W973	K978	P979	L980	Q983	N988	L989	L990	V995	V996	T997	G998	L999	E1000	E1001	P1004	W1005	W1006	M1007	A1008	I1011	W1012	R929	Q930	I933	N940	K941	V942	E946	H948	E949	S950	Q874									
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F1119	K1120	R1121	I1129	F1130	E1131	I1132	Q1137	Y1138	T1139	V1140	R1141	L1142	A1146	L1148	L1149	I1150	A1153	L1154	Q1155	F1156	D1157	R1158	L1159	V1160	A1161	G1162	Q1163	I1164	P1165	T1166	W1168	D1169	A1170	R1171	R1172	Y1173	G1174	V1175	P1176	E1177	M1178	D1179	I1180	V1183	D1184	P1185	V1186	T1187	L1188	L1191		
L1199	Y1207	F1209	Y1210	K1211	Y1212	V1213	H1214	L1215	S1216	E1217	V1218	G1223	S1224	G1225	V1226	T1229	L1232	R1233	G1234	W1235	Y1236	K1237	D1238	I1249	L1250	Q1251	S1252	F1254	T1257	M1258	A1259	A1260	M1264	L1267	S1268	S1269	T1270	I1273	K1274	T1275	P1276	V1277	G1278	A1279	C1280	A1281	T1282					
L1287	D1288	T1293	Q1296	G1297	K1298	A1299	R1300	V1301	C1302	L1303	G1306	F1307	D1308	D1309	F1310	Q1311	E1312	E1313	S1314	S1315	Y1316	E1317	M1321	G1322	A1323	A1327	E1330	R1333	G1334	R1335	E1336	P1337	G1338	E1339	M1340	S1341	R1342	P1343	T1344	S1345	T1346	T1347	F1351	M1352	E1353	S1354	Q1355	G1356	C1357	Q1360		
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F1461	D1462	T1464	A1465	Y1466	L1467	R1468	L1469	R1470	H1473	I1474	E1475	R1476	R1480	Q1481	E1482	A1483	E1484	A1485	Q1486	T1487	S1488	F1489	G1490	M1491	F1492	W1494	R1495	R1496	R1499	I1500	A1501	L1502	L1503	R1504	G1505	N1506	T1509	W1510	G1511	L1512	T1513	I1514	S1521	F1522	H1523	G1524	T1527	M1530	E1531			
K1532	M1533	E1534	I1538	Q1541	L1542	L1545	F1546	R1547	V1553	L1554	G1555	I1556	L1561	T1562	G1563	P1565	K1566	G1567	A1568	F1489	G1490	M1491	F1492	W1494	R1495	R1496	R1499	I1500	A1501	L1502	L1503	R1504	G1505	N1506	T1509	W1510	G1511	L1512	T1513	I1514	S1521	F1522	H1523	G1524	T1527	M1530	E1531					
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T1651	A1652	A1653	Y1654	C1655	V1656	F1657	A1658	F1489	G1490	M1491	F1492	W1494	R1495	R1496	R1499	I1500	A1501	L1502	L1503	R1504	G1505	N1506	T1509	W1510	G1511	L1512	T1513	I1514	S1521	F1522	H1523	G1524	T1527	M1530	E1531																	
H1670	Q1662	K1663	F1669	H1670	L1671	L1672	L1673	L1674	M1675	M1676	K1677	L1678	K1682	P1686	I1691	Q1692	V1695	L1696	L1697	K1613																																



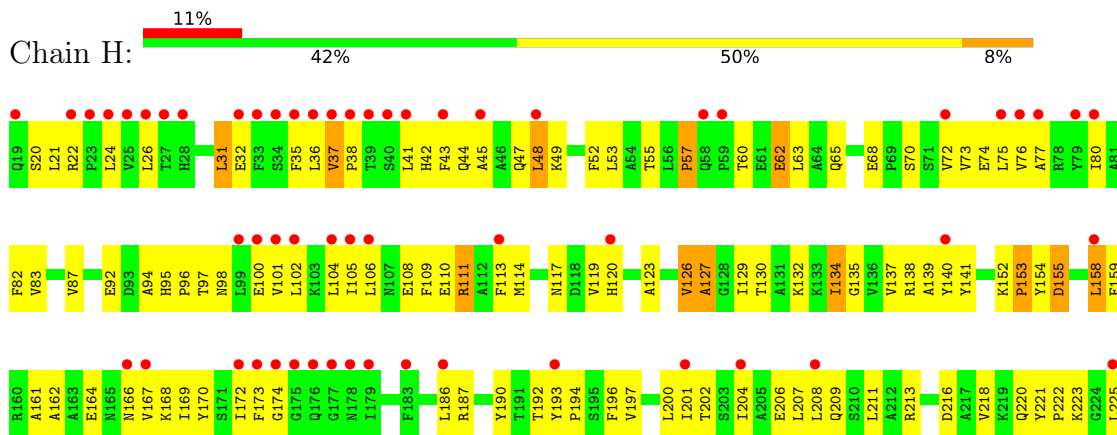
● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

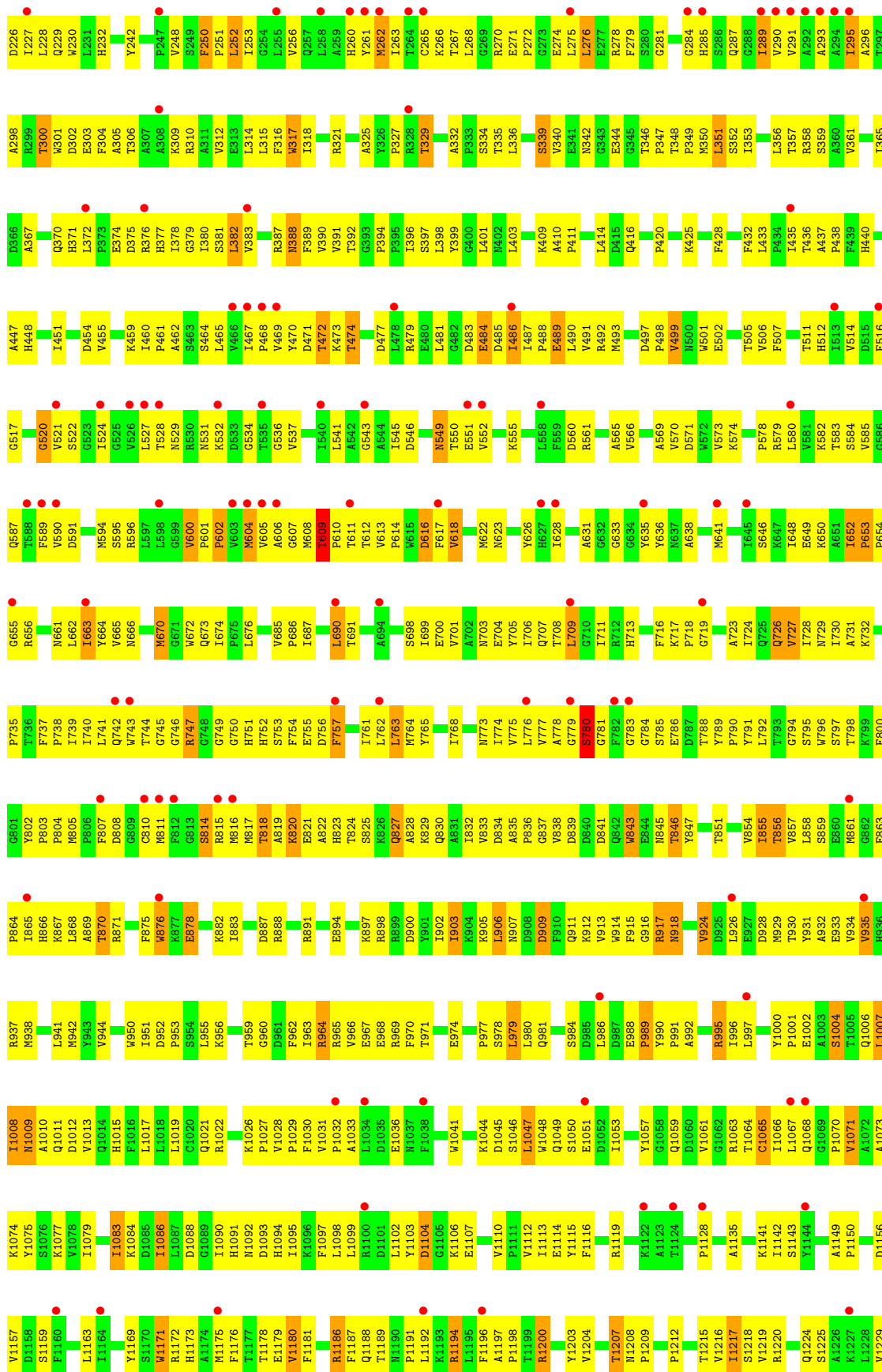


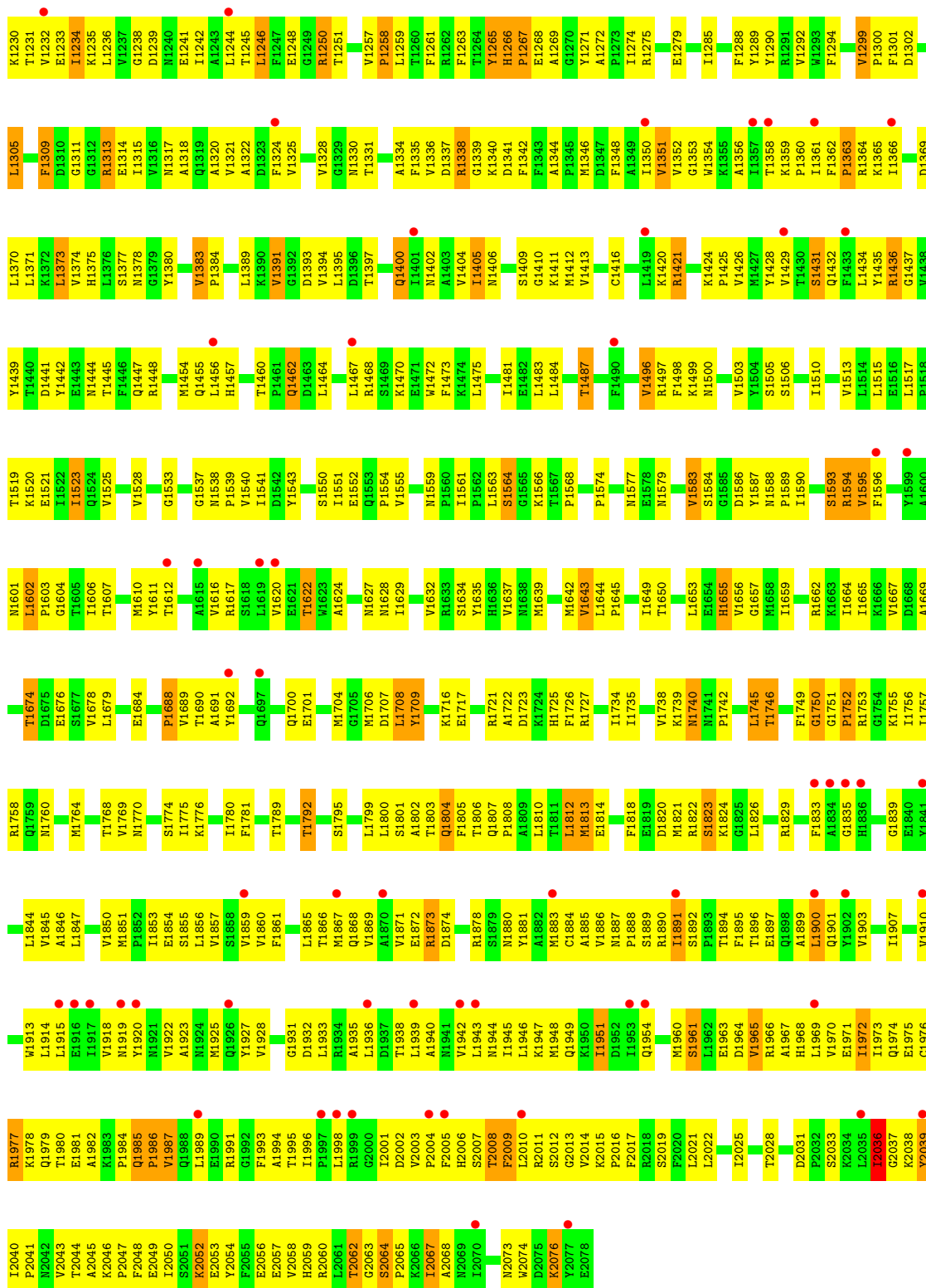




• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

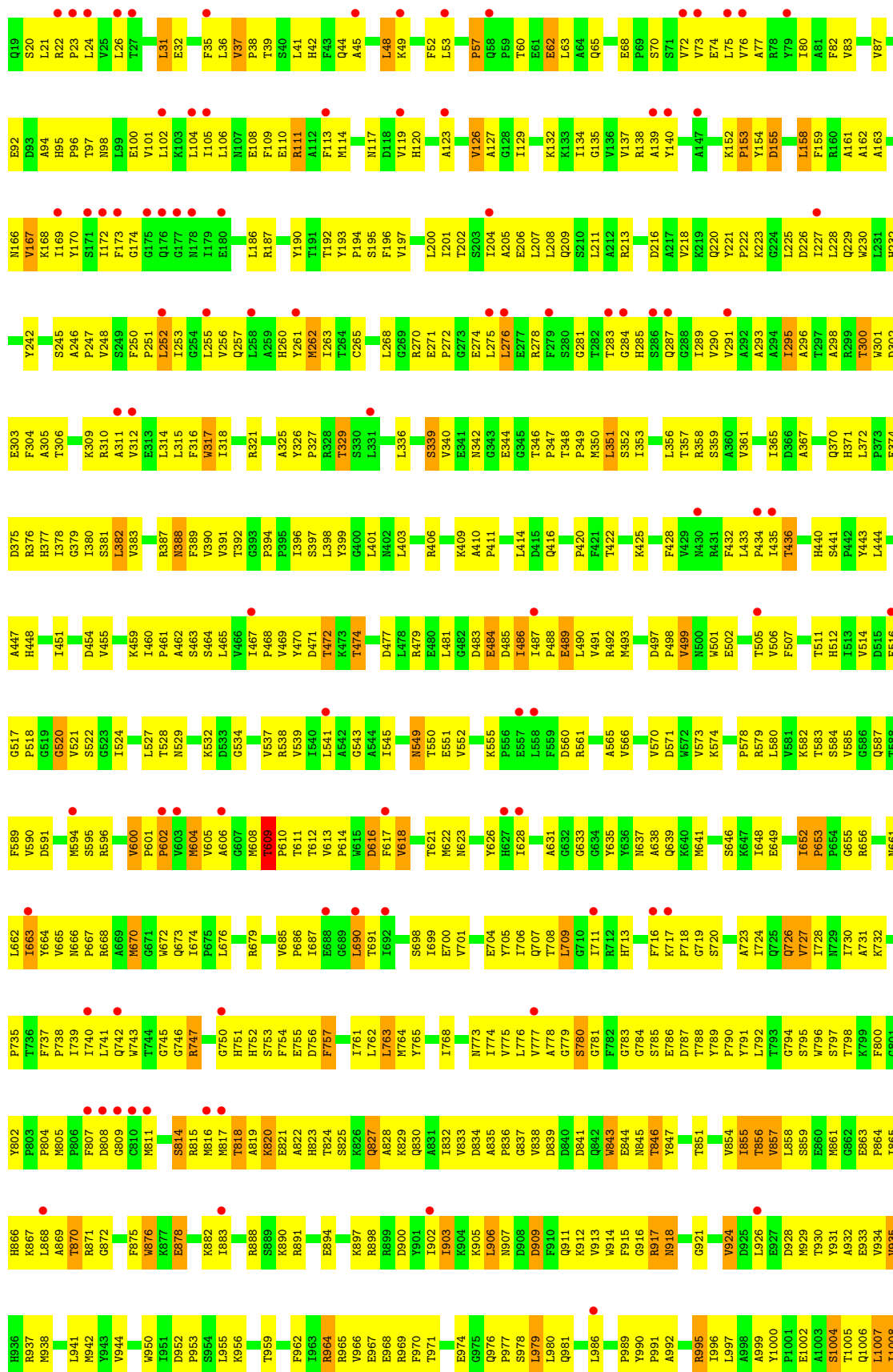




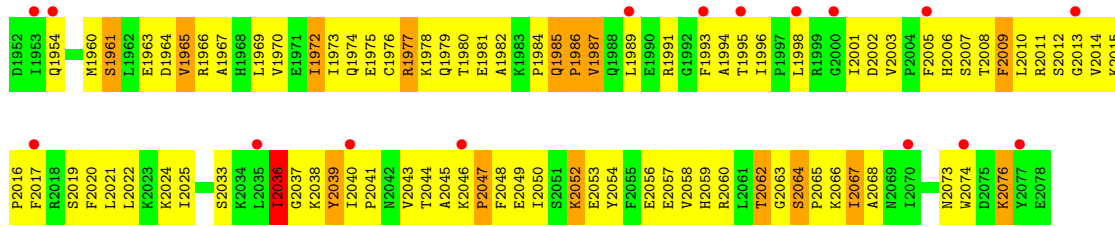


● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

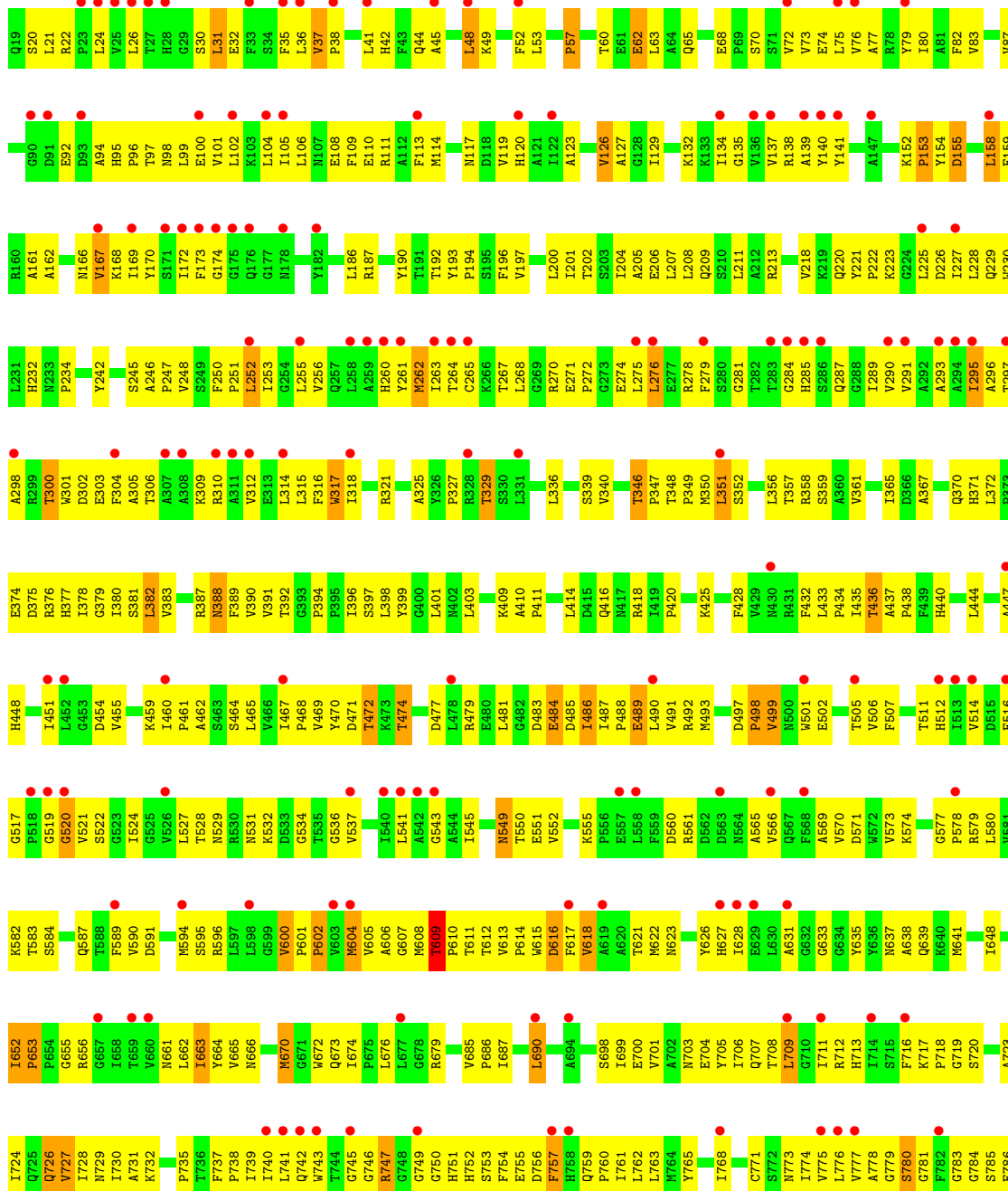




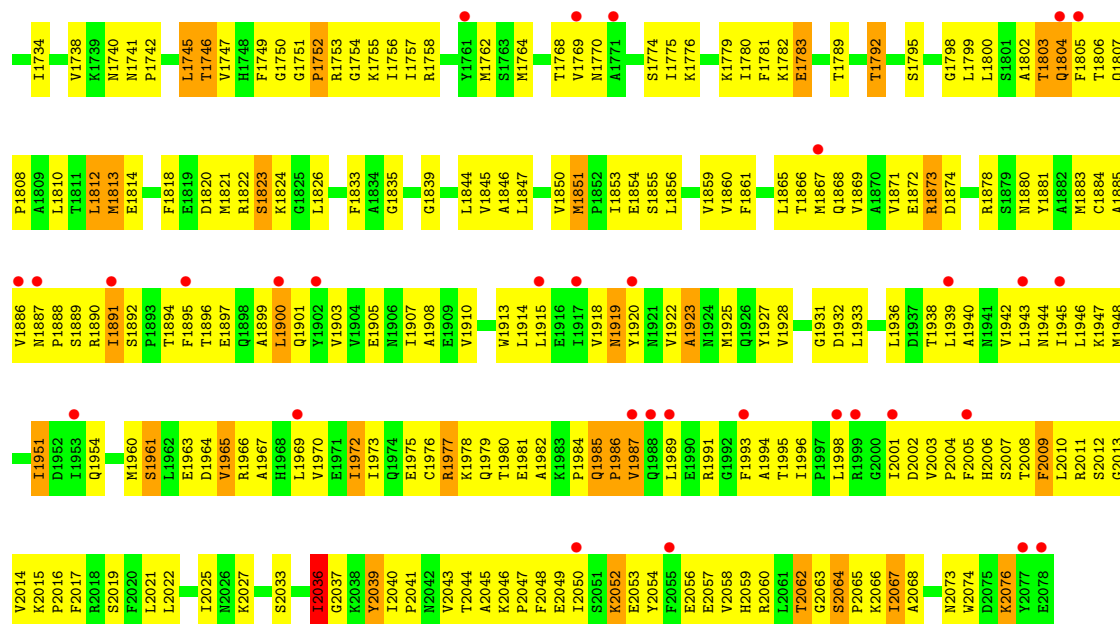
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V1747	H1748	G1750	G1751	G1752	R1753	G1754	A1755	T1756	R1757	R1758	Y1761	M1762	S1763	M1764	F1765	E1766	E1767	S1774	I1775	K1776	K1777	K1778	K1779	L1780	F1781	K1782	E1783	T1789	T1792	Y1793	R1794	S1795	L1799	L1800	S1801	A1802	Q1803	Q1804	F1805	Q1806	Q1807	P1808	P1809	I1810	T1811	L1812	M1813	E1814	F1818	E1819																																									
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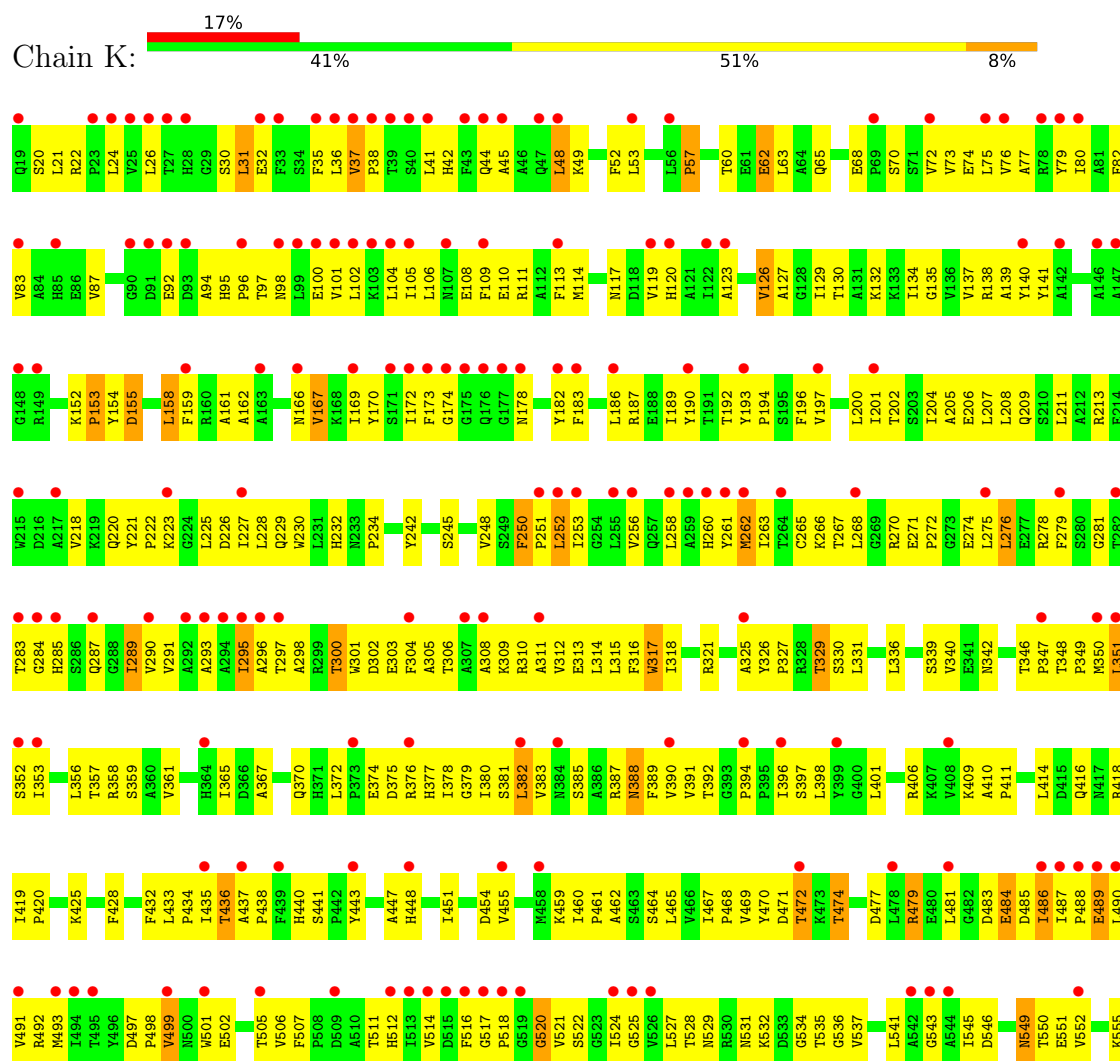
● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

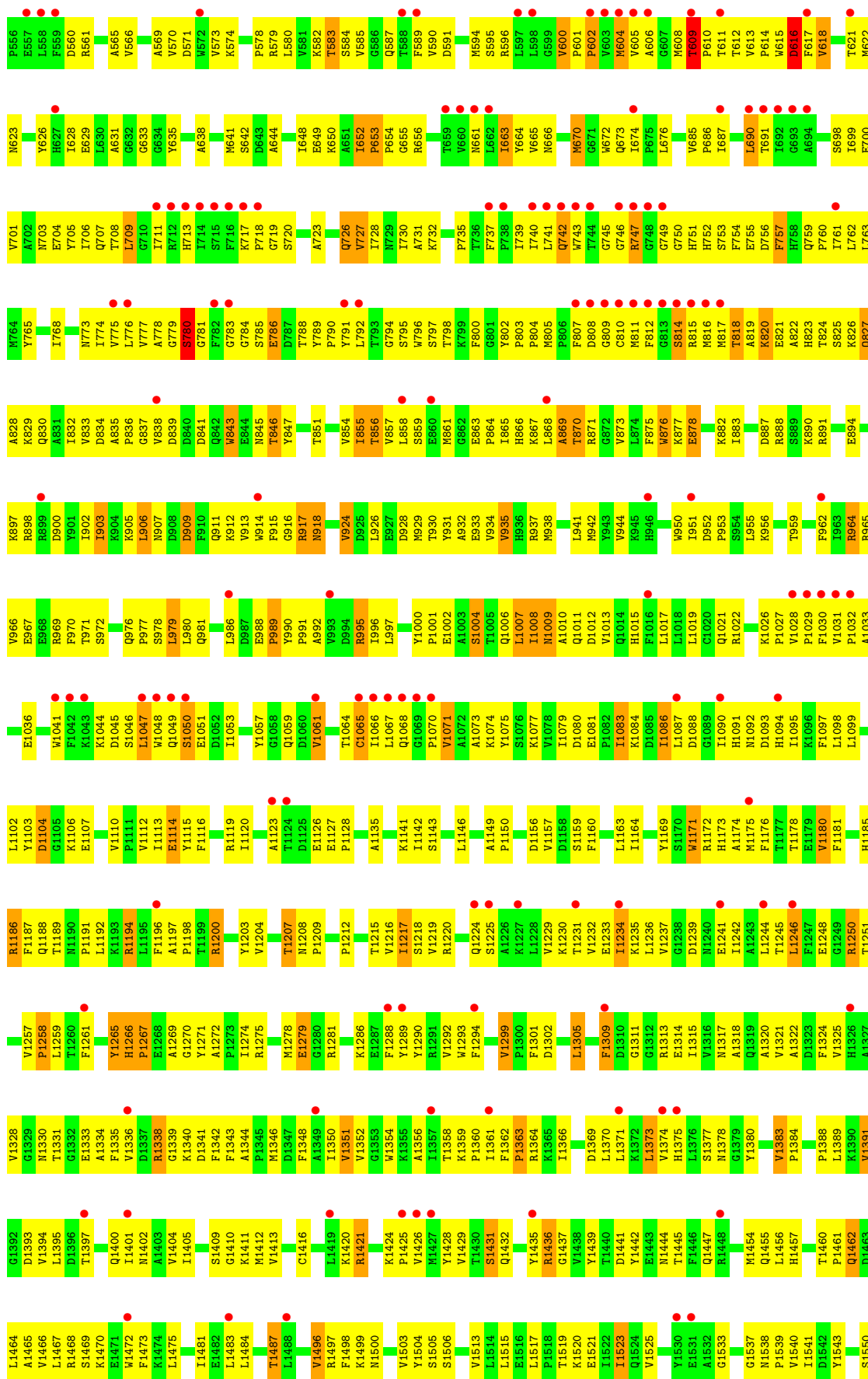


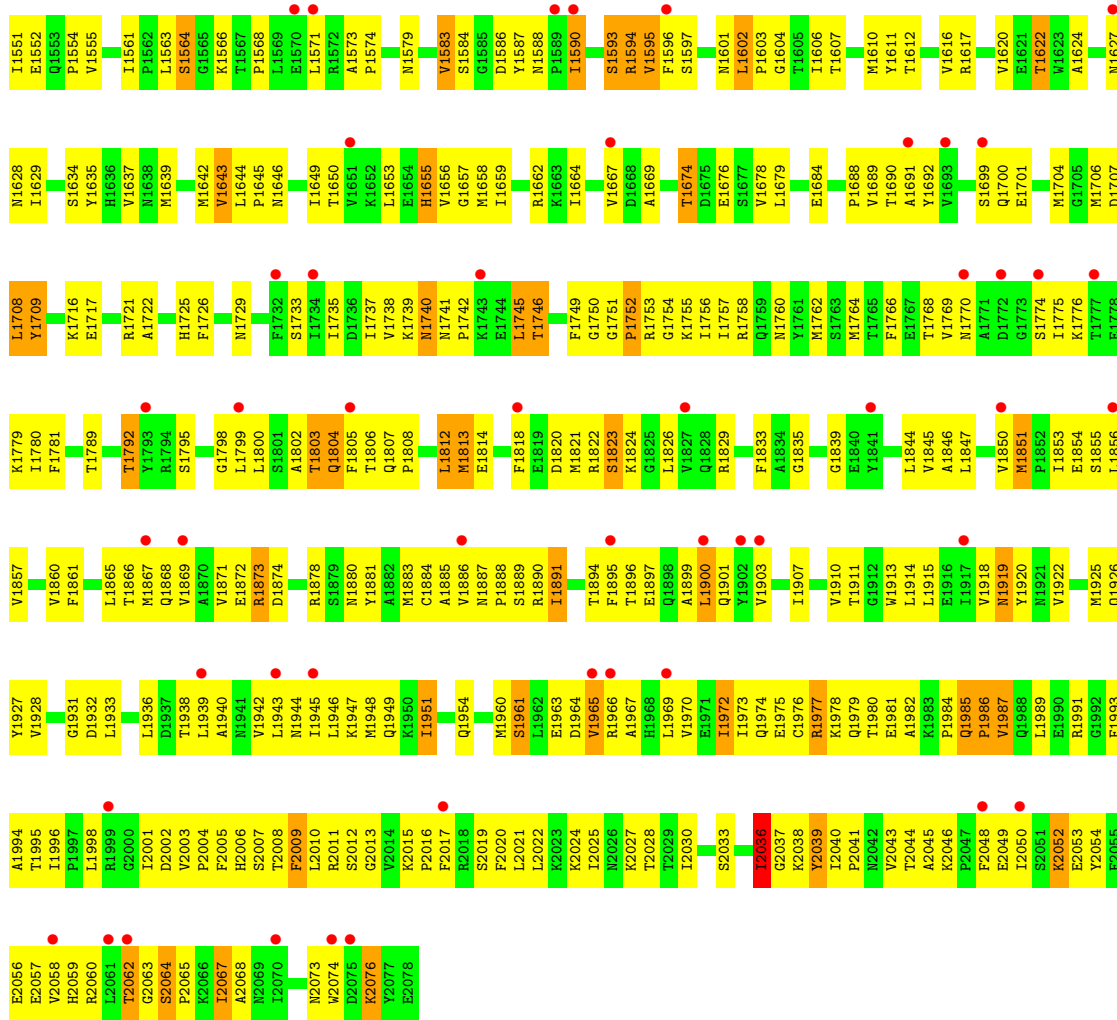
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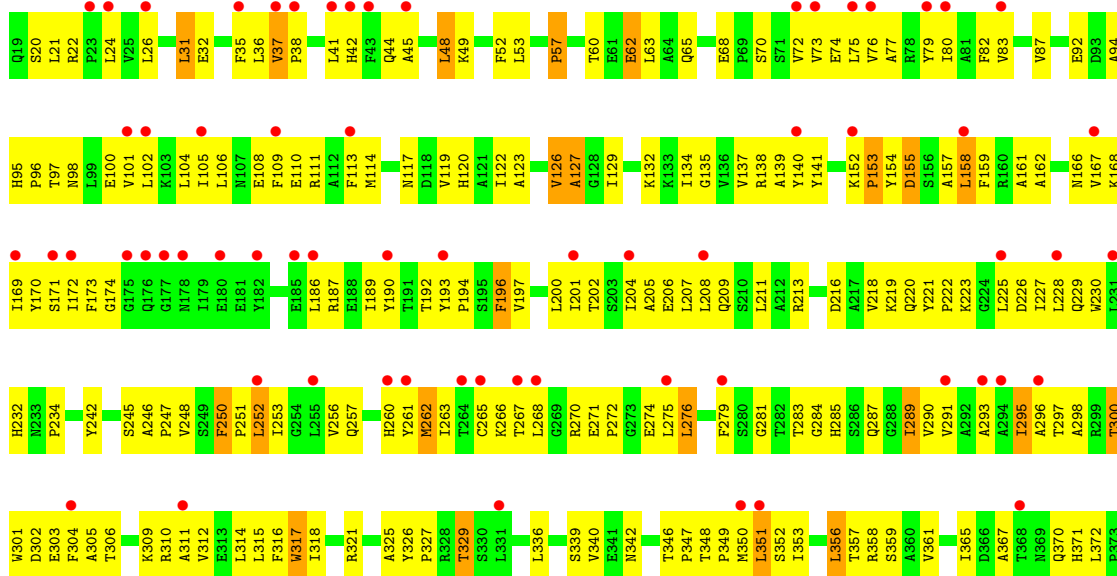
• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS







• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



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N2069	H2006	M1941	I1879	A1809	V1738	E1654	D1586	F1507	F1432	P1363
I2070	S2007	M1942	M1880	L1810	K1739	H1655	G1587	Q1508	F1433	R1364
V2073	T2008	L1943	Y1861	L1811	M1740	V1656	N1588	F1434	L1434	K1365
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Y2077	S2012	A1885	A1885	F1818	E1744	V1592	S1593	V1438	L1371	L1371
E2078	G2013	M1948	V1886	L1745	L1745	R1662	S1593	V1439	L1372	L1372
	V2014	Q1949	P1887	L1746	T1746	K1663	R1594	L1440	K1373	K1373
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	P2016	I1851	S1889	M1821	K1750	V1667	F1596	Y1442	H1375	H1375
	F2017	D1952	R1890	R1822	G1751	D1668	S1598	E1443	L1376	L1376
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	K2027	V1965	G1835	G1835	M1759	L1679	I1606	L1456	P1388	P1388
	I2030	A1967	H1836	H1836	Y1761	Q1680	T1607	H1457	L1389	L1389
	S2033	H1968	G1839	G1839	M1762	E1684	M1610	T1460	K1390	K1390
	K2034	V1970	E1905	E1905	S1763	P1688	T1612	P1461	V1391	V1391
	L2035	I1971	Y1841	Y1841	T1765	V1689	V1616	Q1462	G1392	G1392
	I2036	I1972	S1842	S1842	F1766	T1690	R1617	M1538	L1393	L1393
	G2037	I1973	A1843	A1843	E1767	A1691	A1617	L1464	V1394	V1394
	K2038	Q1974	L1844	L1844	I1682	V1692	S1618	V1466	L1395	L1395
	Y2039	E1975	V1845	V1845	V1683	L1619	D1542	L1467	D1396	D1396
	I2040	C1976	A1846	A1846	M1770	F1694	V1620	R1468	T1397	T1397
	P2041	R1977	L1847	L1847	M1770	V1694	V1620	T1398	T1398	T1398
	V2043	K1978	A1848	A1848	S1774	Q1700	E1621	A1399	Q1400	Q1400
	T2044	Q1979	D1849	D1849	I1775	E1701	W1693	W1472	I1401	I1401
	A2045	T1980	L1915	L1915	K1776	M1704	A1624	F1473	A1402	A1402
	K2046	E1981	V1916	V1916	K1779	G1705	N1627	K1474	A1403	A1403
	P2047	A1982	I1917	I1917	I1780	M1706	N1628	L1475	V1404	V1404
	F2048	K1983	M1918	M1918	D1707	D1707	I1629	V1554	I1405	I1405
	E2049	P1984	Y1920	Y1920	K1781	L1708	I1629	P1555	N1406	N1406
	I2050	Q1985	N1921	N1921	F1782	Y1709	V1632	P1560	S1409	S1409
	S2051	P1986	V1922	V1922	E1783	V1709	R1632	I1561	G1410	G1410
	K2052	V1987	A1923	A1923	T1789	K1716	R1633	P1562	K1411	K1411
	E2053	Q1988	M1924	M1924	I1789	E1717	Y1635	L1563	M1412	M1412
	Y2054	L1989	M1925	M1925	T1792	A1717	H1636	S1564	V1413	V1413
	F2055	E1990	Q1926	Q1926	T1792	R1721	V1637	G1565	C1416	C1416
	E2056	R1991	Y1927	Y1927	S1795	A1722	H1638	T1567	K1420	K1420
	E2057	G1992	V1928	V1928	G1798	D1723	M1639	P1568	R1491	R1491
	V2058	F1993	A1929	A1929	L1799	K1724	M1642	L1492	L1492	L1492
	H2059	T1994	A1930	A1930	L1799	H1725	V1643	V1496	K1420	K1420
	R2060	T1995	G1931	G1931	S1801	F1726	V1644	R1497	R1497	R1497
	K2061	L1996	Q1868	Q1868	L1800	R1727	L1644	F1498	K1424	K1424
	P2062	P1997	V1869	V1869	S1801	R1727	P1645	K1499	P1425	P1425
	G2063	L1998	A1870	A1870	A1802	E1728	M1646	M1500	V1426	V1426
	S2064	T2001	V1871	V1871	R1803	Y1730	N1646	Y1579	M1427	M1427
	P2065	D2002	E1872	E1872	Q1804	Y1730	I1649	Y1580	M1427	M1427
			R1873	R1873	F1805			Y1503	Y1503	Y1503

4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	215.78Å 412.67Å 220.90Å 90.00° 111.57° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 96.48 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.7 (12.00-3.10) 92.6 (96.48-3.10)	Depositor EDS
R_{merge}	0.24	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 3.13Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.270 , 0.300 0.252 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	66.0	Xtrriage
Anisotropy	0.182	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 64.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.21$	Xtrriage
Estimated twinning fraction	0.078 for l,-k,h	Xtrriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	167247	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.40% 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: NAP, FMN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.43	0/11744	0.60	1/15873 (0.0%)
1	B	0.43	0/11801	0.60	1/15949 (0.0%)
1	C	0.44	0/11785	0.59	0/15928
1	D	0.43	0/11824	0.60	0/15980
1	E	0.42	0/11736	0.59	0/15863
1	F	0.44	0/11776	0.60	5/15916 (0.0%)
2	G	0.36	0/16573	0.53	0/22516
2	H	0.35	0/16573	0.53	0/22516
2	I	0.35	0/16573	0.53	0/22516
2	J	0.36	0/16573	0.54	0/22516
2	K	0.39	0/16573	0.55	0/22516
2	L	0.36	0/16573	0.54	0/22516
All	All	0.39	0/170104	0.56	7/230605 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	F	0	1
All	All	0	2

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	585	MET	N-CA-C	9.44	136.48	111.00
1	B	608	LYS	N-CA-C	-8.94	86.85	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	614	PHE	N-CA-C	6.04	127.30	111.00
1	F	613	PRO	CA-C-N	5.57	129.46	117.20
1	A	579	MET	N-CA-C	5.39	125.55	111.00
1	F	613	PRO	C-N-CA	5.04	134.30	121.70
1	F	585	MET	CB-CA-C	-5.02	100.36	110.40

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	578	ALA	Peptide
1	F	613	PRO	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11514	0	11476	746	1
1	B	11571	0	11529	708	1
1	C	11555	0	11507	717	0
1	D	11593	0	11552	725	0
1	E	11506	0	11467	754	0
1	F	11546	0	11499	701	0
2	G	16200	0	16081	1290	1
2	H	16200	0	16081	1326	1
2	I	16200	0	16081	1344	0
2	J	16200	0	16081	1326	0
2	K	16200	0	16081	1391	0
2	L	16200	0	16081	1366	0
3	A	48	0	25	5	0
3	B	48	0	25	5	0
3	C	48	0	25	4	0
3	D	48	0	25	6	0
3	E	48	0	25	4	0
3	F	48	0	25	4	0
3	G	48	0	25	4	0
3	H	48	0	25	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	I	48	0	25	4	0
3	J	48	0	25	4	0
3	K	48	0	25	4	0
3	L	48	0	25	4	0
4	G	31	0	19	17	0
4	H	31	0	19	16	0
4	I	31	0	19	16	0
4	J	31	0	19	15	0
4	K	31	0	19	15	0
4	L	31	0	19	15	0
All	All	167247	0	165930	11767	2

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 35.

All (11767) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:GLN:HB3	1:D:579:MET:HE2	1.25	1.17
1:F:1443:LEU:HD21	1:F:1470:ARG:HB3	1.18	1.17
1:B:1268:SER:HB3	1:D:1389:ILE:HG13	1.23	1.16
1:D:1504:ARG:HG3	1:D:1504:ARG:HH11	1.02	1.15
1:F:1504:ARG:HH11	1:F:1504:ARG:HG3	1.04	1.15
1:C:1443:LEU:HD21	1:C:1470:ARG:HB3	1.18	1.14
1:E:1278:GLY:H	1:E:1282:THR:HG22	1.13	1.14
1:B:1443:LEU:HD21	1:B:1470:ARG:HB3	1.16	1.13
2:H:1594:ARG:HG2	2:H:1594:ARG:HH11	1.13	1.12
1:B:397:ARG:HG2	1:B:397:ARG:HH11	1.14	1.12
1:B:1504:ARG:HH11	1:B:1504:ARG:HG3	1.03	1.12
1:A:1443:LEU:HD21	1:A:1470:ARG:HB3	1.14	1.11
1:A:1278:GLY:H	1:A:1282:THR:HG22	1.11	1.11
2:L:1594:ARG:HG2	2:L:1594:ARG:HH11	1.15	1.11
1:E:1443:LEU:HD21	1:E:1470:ARG:HB3	1.14	1.11
2:I:1594:ARG:HG2	2:I:1594:ARG:HH11	1.08	1.11
1:A:1389:ILE:HG13	1:E:1268:SER:HB3	1.29	1.10
1:B:1389:ILE:HG13	1:D:1268:SER:HB3	1.27	1.10
2:J:1594:ARG:HG2	2:J:1594:ARG:HH11	1.09	1.10
1:C:1268:SER:HB3	1:F:1389:ILE:HG13	1.29	1.10
1:E:1504:ARG:HH11	1:E:1504:ARG:HG3	1.06	1.10
1:D:397:ARG:HG2	1:D:397:ARG:HH11	1.13	1.09
1:A:1504:ARG:HG3	1:A:1504:ARG:HH11	1.04	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:397:ARG:HH11	1:E:397:ARG:HG2	1.15	1.09
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.28	1.09
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.35	1.08
1:C:1278:GLY:H	1:C:1282:THR:HG22	1.11	1.08
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.68	1.08
1:F:397:ARG:HG2	1:F:397:ARG:HH11	1.16	1.08
1:F:1278:GLY:H	1:F:1282:THR:HG22	1.15	1.08
1:C:397:ARG:HG2	1:C:397:ARG:HH11	1.14	1.08
1:D:1443:LEU:HD21	1:D:1470:ARG:HB3	1.16	1.08
1:B:427:ARG:HH12	1:B:492:ILE:HG23	1.18	1.07
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.89	1.07
1:B:1342:ARG:NH1	1:B:1347:THR:HB	1.69	1.07
2:I:610:PRO:HD2	4:I:2101:FMN:H6	1.35	1.07
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.68	1.06
2:K:1594:ARG:HG2	2:K:1594:ARG:HH11	1.18	1.06
2:G:511:THR:HG22	2:G:512:HIS:CD2	1.89	1.06
2:K:1194:ARG:HH11	2:K:1194:ARG:HG3	0.90	1.06
1:F:427:ARG:HH12	1:F:492:ILE:HG23	1.15	1.06
2:H:846:THR:HG21	2:H:866:HIS:CD2	1.90	1.06
2:K:846:THR:HG21	2:K:866:HIS:CD2	1.90	1.06
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.90	1.06
1:A:397:ARG:HG2	1:A:397:ARG:HH11	1.16	1.06
1:C:1504:ARG:HH11	1:C:1504:ARG:HG3	0.99	1.06
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.89	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.91	1.06
1:E:1342:ARG:NH1	1:E:1347:THR:HB	1.71	1.05
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.91	1.05
2:I:374:GLU:HA	2:I:377:HIS:CD2	1.90	1.05
1:E:965:TYR:CZ	1:E:1199:LEU:HD22	1.91	1.05
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.69	1.05
2:I:1194:ARG:HH11	2:I:1194:ARG:HG3	0.94	1.05
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.19	1.05
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.92	1.05
2:J:1194:ARG:HH11	2:J:1194:ARG:HG3	0.89	1.05
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.71	1.05
1:B:1278:GLY:H	1:B:1282:THR:HG22	1.15	1.05
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.36	1.05
2:L:846:THR:HG21	2:L:866:HIS:CD2	1.92	1.05
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.39	1.04
2:G:1594:ARG:HG2	2:G:1594:ARG:HH11	1.15	1.04
2:H:610:PRO:HD2	4:H:2101:FMN:H6	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:610:PRO:HD2	4:K:2101:FMN:H6	1.36	1.04
2:L:1194:ARG:HG3	2:L:1194:ARG:HH11	0.93	1.04
2:G:846:THR:HG21	2:G:866:HIS:CD2	1.92	1.04
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.93	1.04
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.69	1.04
2:H:1194:ARG:HH11	2:H:1194:ARG:HG3	0.93	1.04
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.91	1.04
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.39	1.04
1:C:1702:ARG:CG	1:C:1702:ARG:HH11	1.70	1.03
2:J:610:PRO:HD2	4:J:2101:FMN:H6	1.36	1.03
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.72	1.03
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.21	1.03
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.39	1.03
1:B:1702:ARG:HH11	1:B:1702:ARG:CG	1.69	1.03
2:L:610:PRO:HD2	4:L:2101:FMN:H6	1.35	1.03
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.58	1.03
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.73	1.03
1:D:1278:GLY:H	1:D:1282:THR:HG22	1.23	1.02
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.73	1.02
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.19	1.02
2:J:846:THR:HG21	2:J:866:HIS:CD2	1.94	1.02
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.38	1.02
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.19	1.02
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.21	1.02
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.93	1.02
2:J:1194:ARG:HG3	2:J:1194:ARG:NH1	1.68	1.02
2:I:846:THR:HG21	2:I:866:HIS:CD2	1.94	1.02
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.72	1.01
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.17	1.01
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.42	1.01
1:F:427:ARG:HH11	1:F:427:ARG:HG3	1.21	1.01
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.24	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:HH11	0.89	1.01
2:L:917:ARG:HH11	2:L:917:ARG:CG	1.74	1.01
1:F:1079:ARG:HG2	1:F:1079:ARG:HH11	1.26	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:NH1	1.67	1.01
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.76	1.01
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.75	1.01
2:K:1200:ARG:HD3	2:K:1200:ARG:H	1.25	1.01
1:B:427:ARG:HG3	1:B:427:ARG:HH11	1.23	1.01
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:595:SER:HB3	2:J:602:PRO:HG3	1.42	1.01
2:K:2052:LYS:HD3	2:K:2074:TRP:NE1	1.76	1.01
1:A:1672:GLY:HA3	1:A:1678:LEU:HD23	1.41	1.00
2:G:595:SER:HB3	2:G:602:PRO:HG3	1.39	1.00
2:G:610:PRO:HD2	4:G:2101:FMN:H6	1.38	1.00
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.04	1.00
1:A:1476:ARG:HH12	1:E:1499:ARG:HD3	1.26	1.00
2:L:1200:ARG:H	2:L:1200:ARG:HD3	1.26	1.00
1:A:427:ARG:HH11	1:A:427:ARG:HG3	1.25	1.00
1:F:1702:ARG:CG	1:F:1702:ARG:HH11	1.74	1.00
2:H:917:ARG:HH11	2:H:917:ARG:CG	1.75	1.00
2:I:917:ARG:HH11	2:I:917:ARG:CG	1.75	1.00
2:I:595:SER:HB3	2:I:602:PRO:HG3	1.43	1.00
2:J:752:HIS:HE1	2:J:847:TYR:HE2	1.07	1.00
1:D:527:ALA:HB2	1:D:637:LEU:HD22	1.42	1.00
2:K:1194:ARG:HG3	2:K:1194:ARG:NH1	1.69	1.00
1:C:1504:ARG:HH11	1:C:1504:ARG:CG	1.75	1.00
1:D:1079:ARG:HG2	1:D:1079:ARG:HH11	1.26	1.00
2:H:595:SER:HB3	2:H:602:PRO:HG3	1.42	0.99
1:F:397:ARG:HH11	1:F:397:ARG:CG	1.75	0.99
2:K:595:SER:HB3	2:K:602:PRO:HG3	1.40	0.99
2:H:1194:ARG:HG3	2:H:1194:ARG:NH1	1.72	0.98
2:J:1610:MET:HE2	2:J:1610:MET:HA	1.43	0.98
2:J:1200:ARG:H	2:J:1200:ARG:HD3	1.28	0.98
2:K:511:THR:HG22	2:K:512:HIS:CD2	1.97	0.98
2:G:2033:SER:HA	2:G:2036:ILE:HG13	1.46	0.98
1:A:1702:ARG:CG	1:A:1702:ARG:HH11	1.75	0.98
1:E:989:ASN:H	1:E:1491:ASN:HD21	1.10	0.98
2:L:917:ARG:HH11	2:L:917:ARG:HG3	1.29	0.98
1:E:998:GLY:HA3	1:E:1361:VAL:HG13	1.43	0.97
1:B:397:ARG:HH11	1:B:397:ARG:CG	1.77	0.97
1:C:427:ARG:HH11	1:C:427:ARG:HG3	1.26	0.97
2:I:1200:ARG:H	2:I:1200:ARG:HD3	1.28	0.97
2:H:2033:SER:HA	2:H:2036:ILE:HG13	1.47	0.97
1:C:397:ARG:HH11	1:C:397:ARG:CG	1.77	0.97
2:K:917:ARG:HH11	2:K:917:ARG:CG	1.77	0.97
1:D:406:ALA:HA	1:D:439:ARG:HH11	1.30	0.97
1:B:1079:ARG:HG2	1:B:1079:ARG:HH11	1.30	0.97
2:L:752:HIS:HE1	2:L:847:TYR:HE2	1.06	0.97
1:B:989:ASN:H	1:B:1491:ASN:HD21	1.07	0.96
1:F:1504:ARG:HH11	1:F:1504:ARG:CG	1.78	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1703:VAL:HG11	1:F:1711:LEU:HB3	1.43	0.96
2:G:1200:ARG:H	2:G:1200:ARG:HD3	1.28	0.96
1:E:532:ILE:CG2	1:E:907:PHE:HB2	1.95	0.96
2:K:846:THR:HG21	2:K:866:HIS:HD2	1.28	0.96
2:H:1200:ARG:HD3	2:H:1200:ARG:H	1.28	0.96
2:I:1048:TRP:CE2	2:I:1049:GLN:HG2	2.00	0.96
1:A:998:GLY:HA3	1:A:1361:VAL:HG13	1.45	0.96
2:I:2033:SER:HA	2:I:2036:ILE:HG13	1.46	0.96
2:L:1637:VAL:HG11	2:L:1679:LEU:HD13	1.48	0.96
1:A:1278:GLY:N	1:A:1282:THR:HG22	1.81	0.96
1:C:881:LEU:HA	1:C:884:MET:HG3	1.47	0.96
2:I:917:ARG:HH11	2:I:917:ARG:HG3	1.28	0.96
1:D:998:GLY:HA3	1:D:1361:VAL:HG13	1.46	0.95
1:E:397:ARG:HH11	1:E:397:ARG:CG	1.79	0.95
2:L:1610:MET:HE2	2:L:1610:MET:HA	1.47	0.95
1:A:1079:ARG:HG2	1:A:1079:ARG:HH11	1.29	0.95
2:L:1048:TRP:CE2	2:L:1049:GLN:HG2	2.01	0.95
1:A:1504:ARG:HH11	1:A:1504:ARG:CG	1.79	0.95
2:G:750:GLY:HA2	2:G:865:ILE:HG23	1.47	0.95
2:G:917:ARG:HH11	2:G:917:ARG:CG	1.78	0.95
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.28	0.95
2:J:917:ARG:CG	2:J:917:ARG:HH11	1.79	0.95
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.48	0.95
1:A:397:ARG:HH11	1:A:397:ARG:CG	1.80	0.95
1:C:427:ARG:HH12	1:C:492:ILE:HG23	1.30	0.95
1:C:1079:ARG:HG2	1:C:1079:ARG:HH11	1.31	0.95
1:B:998:GLY:HA3	1:B:1361:VAL:HG13	1.44	0.95
2:J:1868:GLN:HG2	2:J:1873:ARG:NH2	1.81	0.95
2:J:1048:TRP:CE2	2:J:1049:GLN:HG2	2.02	0.95
2:J:2033:SER:HA	2:J:2036:ILE:HG13	1.48	0.95
1:E:1504:ARG:HH11	1:E:1504:ARG:CG	1.80	0.94
2:I:501:TRP:HE1	2:I:528:THR:HG22	1.32	0.94
2:K:582:LYS:HB2	2:K:1112:VAL:HG22	1.45	0.94
1:C:1278:GLY:N	1:C:1282:THR:HG22	1.81	0.94
2:L:846:THR:HG21	2:L:866:HIS:HD2	1.30	0.94
2:L:158:LEU:HA	2:L:566:VAL:HG21	1.47	0.94
1:F:1663:LYS:HG2	2:L:1007:LEU:HD11	1.49	0.94
1:A:1148:LEU:HD13	1:E:1148:LEU:HD13	1.48	0.94
2:K:1769:VAL:HG22	2:K:1775:ILE:HA	1.49	0.94
1:D:397:ARG:HH11	1:D:397:ARG:CG	1.78	0.94
1:D:427:ARG:HH12	1:D:492:ILE:HG23	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1504:ARG:HH11	1:D:1504:ARG:CG	1.78	0.94
2:H:752:HIS:HE1	2:H:847:TYR:HE2	1.07	0.94
2:K:1610:MET:HE2	2:K:1610:MET:HA	1.48	0.94
2:K:2033:SER:HA	2:K:2036:ILE:HG13	1.46	0.94
1:E:570:TYR:O	1:E:574:ILE:HG13	1.66	0.94
2:K:917:ARG:HH11	2:K:917:ARG:HG3	1.32	0.94
2:L:2033:SER:HA	2:L:2036:ILE:HG13	1.47	0.94
1:A:989:ASN:H	1:A:1491:ASN:HD21	1.11	0.93
1:B:586:GLN:O	1:E:538:ARG:NH2	2.00	0.93
1:C:612:ILE:HG23	1:C:628:TYR:CD2	2.04	0.93
2:L:1180:VAL:HG11	2:L:1187:PHE:CD2	2.04	0.93
1:E:406:ALA:HA	1:E:439:ARG:HH11	1.31	0.93
2:H:1048:TRP:CE2	2:H:1049:GLN:HG2	2.02	0.93
1:A:406:ALA:HA	1:A:439:ARG:HH11	1.32	0.93
1:B:824:LEU:HB3	1:B:839:ILE:HD13	1.50	0.93
2:G:938:MET:HB3	2:G:959:THR:HG22	1.51	0.93
2:H:501:TRP:HE1	2:H:528:THR:HG22	1.34	0.93
1:B:406:ALA:HA	1:B:439:ARG:HH11	1.32	0.93
1:F:998:GLY:HA3	1:F:1361:VAL:HG13	1.47	0.93
2:G:846:THR:HG21	2:G:866:HIS:HD2	1.31	0.93
2:H:750:GLY:HA2	2:H:865:ILE:HG23	1.48	0.93
2:L:501:TRP:HE1	2:L:528:THR:HG22	1.30	0.93
2:H:1008:ILE:HD12	2:H:1013:VAL:HG22	1.48	0.93
2:H:117:ASN:HA	2:H:561:ARG:HG3	1.51	0.93
2:J:1868:GLN:HG2	2:J:1873:ARG:HH22	1.32	0.93
2:L:1007:LEU:H	2:L:1007:LEU:HD12	1.34	0.92
2:I:752:HIS:HE1	2:I:847:TYR:HE2	1.05	0.92
1:E:1278:GLY:N	1:E:1282:THR:HG22	1.83	0.92
2:J:501:TRP:HE1	2:J:528:THR:HG22	1.32	0.92
1:B:1672:GLY:HA3	1:B:1678:LEU:HD23	1.50	0.92
1:D:1672:GLY:HA3	1:D:1678:LEU:HD23	1.52	0.92
1:E:1079:ARG:HG2	1:E:1079:ARG:HH11	1.33	0.92
1:F:1672:GLY:HA3	1:F:1678:LEU:HD23	1.51	0.92
2:K:750:GLY:HA2	2:K:865:ILE:HG23	1.52	0.92
2:K:814:SER:HB2	4:K:2101:FMN:O3P	1.70	0.92
1:F:811:ASP:HB3	1:F:814:TYR:HB3	1.52	0.92
2:G:1637:VAL:HG11	2:G:1679:LEU:HD13	1.52	0.92
2:H:846:THR:HG21	2:H:866:HIS:HD2	1.29	0.92
2:H:1007:LEU:H	2:H:1007:LEU:HD12	1.33	0.92
1:F:989:ASN:H	1:F:1491:ASN:HD21	1.16	0.92
2:K:1180:VAL:HG11	2:K:1187:PHE:CD2	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:SER:HB2	1:A:612:ILE:HB	1.50	0.92
1:A:574:ILE:CG2	1:A:579:MET:HB2	2.00	0.92
1:A:811:ASP:HB3	1:A:814:TYR:HB3	1.50	0.92
1:B:1278:GLY:N	1:B:1282:THR:HG22	1.84	0.92
2:G:917:ARG:HH11	2:G:917:ARG:HG3	1.34	0.92
2:H:1868:GLN:HG2	2:H:1873:ARG:NH2	1.85	0.92
2:J:917:ARG:HH11	2:J:917:ARG:HG3	1.34	0.92
1:A:570:TYR:O	1:A:574:ILE:HG13	1.68	0.91
1:C:406:ALA:HA	1:C:439:ARG:HH11	1.33	0.91
1:D:824:LEU:HB3	1:D:839:ILE:HD13	1.51	0.91
2:L:1265:TYR:CE1	2:L:1267:PRO:HG3	2.05	0.91
1:C:1148:LEU:HD13	1:F:1148:LEU:HD13	1.53	0.91
1:D:811:ASP:HB3	1:D:814:TYR:HB3	1.52	0.91
2:G:1769:VAL:HG22	2:G:1775:ILE:HA	1.52	0.91
2:J:791:TYR:HA	2:J:796:TRP:CD1	2.05	0.91
2:I:750:GLY:HA2	2:I:865:ILE:HG23	1.52	0.91
2:K:635:TYR:CG	2:K:641:MET:HG3	2.06	0.91
2:K:1265:TYR:CE1	2:K:1267:PRO:HG3	2.04	0.91
1:E:612:ILE:HG12	1:E:628:TYR:CD2	2.06	0.91
1:E:962:ASN:HD22	2:K:1006:GLN:NE2	1.68	0.91
2:I:1180:VAL:HG11	2:I:1187:PHE:CD2	2.05	0.91
2:H:917:ARG:HH11	2:H:917:ARG:HG3	1.30	0.91
2:H:1919:ASN:HB2	2:H:1928:VAL:HB	1.53	0.91
1:A:824:LEU:HB3	1:A:839:ILE:HD13	1.52	0.91
1:E:427:ARG:HH11	1:E:427:ARG:CG	1.84	0.91
1:F:427:ARG:HH11	1:F:427:ARG:CG	1.83	0.91
2:L:1008:ILE:HD12	2:L:1013:VAL:HG22	1.50	0.91
1:B:427:ARG:HH11	1:B:427:ARG:CG	1.84	0.91
1:C:824:LEU:HB3	1:C:839:ILE:HD13	1.51	0.91
2:K:1868:GLN:HG2	2:K:1873:ARG:NH2	1.86	0.91
2:K:1048:TRP:CE2	2:K:1049:GLN:HG2	2.04	0.90
2:K:1919:ASN:HB2	2:K:1928:VAL:HB	1.53	0.90
1:A:574:ILE:HG23	1:A:579:MET:HB2	1.52	0.90
1:B:1504:ARG:HH11	1:B:1504:ARG:CG	1.83	0.90
2:G:582:LYS:HB2	2:G:1112:VAL:HG22	1.53	0.90
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.07	0.90
2:K:752:HIS:HE1	2:K:847:TYR:HE2	1.02	0.90
2:K:791:TYR:HA	2:K:796:TRP:CD1	2.07	0.90
2:J:1180:VAL:HG11	2:J:1187:PHE:CD2	2.06	0.90
2:K:376:ARG:HB3	2:K:394:PRO:HG2	1.54	0.90
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.52	0.90
1:C:1448:ALA:HA	1:C:1451:LYS:HE3	1.54	0.90
1:E:824:LEU:HB3	1:E:839:ILE:HD13	1.53	0.90
2:K:289:ILE:HG12	2:K:493:MET:HE1	1.51	0.90
1:A:1703:VAL:HG11	1:A:1711:LEU:HB3	1.53	0.90
1:F:406:ALA:HA	1:F:439:ARG:HH11	1.35	0.90
2:I:846:THR:HG21	2:I:866:HIS:HD2	1.33	0.90
2:I:1610:MET:HE2	2:I:1610:MET:HA	1.51	0.90
1:D:570:TYR:O	1:D:574:ILE:HG13	1.71	0.90
1:D:1504:ARG:HG3	1:D:1504:ARG:NH1	1.84	0.90
2:I:938:MET:HB3	2:I:959:THR:HG22	1.52	0.90
1:C:72:THR:HB	1:C:74:VAL:HG23	1.54	0.90
2:I:1007:LEU:H	2:I:1007:LEU:HD12	1.35	0.90
2:I:1194:ARG:HG3	2:I:1194:ARG:NH1	1.73	0.90
2:K:2059:HIS:HE1	2:K:2068:ALA:HB2	1.37	0.90
2:L:938:MET:HB3	2:L:959:THR:HG22	1.53	0.90
1:F:824:LEU:HB3	1:F:839:ILE:HD13	1.52	0.90
1:B:811:ASP:HB3	1:B:814:TYR:HB3	1.54	0.90
1:E:427:ARG:HH12	1:E:492:ILE:HG23	1.36	0.90
1:F:613:PRO:HG2	1:F:633:THR:HG21	1.53	0.90
2:H:938:MET:HB3	2:H:959:THR:HG22	1.52	0.90
2:H:1868:GLN:HG2	2:H:1873:ARG:HH22	1.35	0.90
2:J:1007:LEU:H	2:J:1007:LEU:HD12	1.38	0.89
1:D:1448:ALA:HA	1:D:1451:LYS:HE3	1.54	0.89
1:E:881:LEU:HA	1:E:884:MET:HG3	1.55	0.89
2:K:1442:TYR:O	2:K:1445:THR:HG22	1.72	0.89
2:G:854:VAL:HG21	2:G:1070:PRO:HA	1.54	0.89
2:H:582:LYS:HB2	2:H:1112:VAL:HG22	1.54	0.89
1:A:1504:ARG:HG3	1:A:1504:ARG:NH1	1.85	0.89
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.06	0.89
2:H:327:PRO:HD2	2:I:1338:ARG:HH21	1.36	0.89
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.08	0.89
2:L:1616:VAL:HG11	2:L:1679:LEU:HD12	1.53	0.89
1:C:1672:GLY:HA3	1:C:1678:LEU:HD23	1.55	0.89
2:K:752:HIS:HE1	2:K:847:TYR:CE2	1.90	0.89
2:K:752:HIS:CE1	2:K:847:TYR:HE2	1.89	0.89
1:A:965:TYR:CZ	1:A:1199:LEU:HD22	2.08	0.89
2:G:1919:ASN:HB2	2:G:1928:VAL:HB	1.52	0.89
2:H:610:PRO:HG3	2:H:1047:LEU:HD22	1.54	0.89
2:J:750:GLY:HA2	2:J:865:ILE:HG23	1.55	0.89
1:C:397:ARG:HG2	1:C:397:ARG:NH1	1.82	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:THR:HB	1:D:74:VAL:HG23	1.55	0.89
1:B:1005:TRP:NE1	1:B:1561:LEU:HD22	1.89	0.89
1:F:1107:GLU:HG3	1:F:1108:PRO:HD2	1.55	0.89
2:I:582:LYS:HB2	2:I:1112:VAL:HG22	1.54	0.89
2:J:582:LYS:HB2	2:J:1112:VAL:HG22	1.54	0.89
2:J:938:MET:HB3	2:J:959:THR:HG22	1.53	0.89
1:E:811:ASP:HB3	1:E:814:TYR:HB3	1.54	0.88
2:G:501:TRP:HE1	2:G:528:THR:HG22	1.35	0.88
2:G:1194:ARG:HH11	2:G:1194:ARG:CG	1.82	0.88
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.08	0.88
2:H:1265:TYR:CE1	2:H:1267:PRO:HG3	2.07	0.88
2:I:791:TYR:HA	2:I:796:TRP:CD1	2.07	0.88
2:I:1637:VAL:HG11	2:I:1679:LEU:HD13	1.52	0.88
1:A:881:LEU:HA	1:A:884:MET:HG3	1.55	0.88
1:B:1448:ALA:HA	1:B:1451:LYS:HE3	1.54	0.88
1:E:1504:ARG:HG3	1:E:1504:ARG:NH1	1.87	0.88
2:K:117:ASN:HA	2:K:561:ARG:HG3	1.55	0.88
1:D:427:ARG:HH11	1:D:427:ARG:CG	1.86	0.88
2:G:685:VAL:HG23	2:G:1186:ARG:HH12	1.35	0.88
1:E:1448:ALA:HA	1:E:1451:LYS:HE3	1.56	0.88
2:I:1602:LEU:HG	2:I:1606:ILE:HD11	1.55	0.88
2:K:938:MET:HB3	2:K:959:THR:HG22	1.53	0.88
2:H:1616:VAL:HG11	2:H:1679:LEU:HD12	1.54	0.88
2:G:1265:TYR:CE1	2:G:1267:PRO:HG3	2.09	0.88
1:C:1476:ARG:HH12	1:F:1499:ARG:HD3	1.38	0.88
1:E:962:ASN:HD22	2:K:1006:GLN:HE22	0.89	0.88
2:G:635:TYR:CG	2:G:641:MET:HG3	2.09	0.88
2:H:1637:VAL:HG11	2:H:1679:LEU:HD13	1.55	0.88
2:I:1919:ASN:HB2	2:I:1928:VAL:HB	1.53	0.88
2:J:605:VAL:HB	2:J:628:ILE:HG13	1.56	0.88
2:L:582:LYS:HB2	2:L:1112:VAL:HG22	1.55	0.88
2:J:1616:VAL:HG11	2:J:1679:LEU:HD12	1.56	0.88
2:K:857:VAL:HG13	2:K:876:TRP:NE1	1.88	0.88
1:A:72:THR:HB	1:A:74:VAL:HG23	1.56	0.88
2:G:1008:ILE:HD12	2:G:1013:VAL:HG22	1.53	0.88
2:L:750:GLY:HA2	2:L:865:ILE:HG23	1.56	0.88
1:A:1499:ARG:HD3	1:E:1476:ARG:HH12	1.39	0.87
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.56	0.87
1:E:72:THR:HB	1:E:74:VAL:HG23	1.54	0.87
1:F:1278:GLY:N	1:F:1282:THR:HG22	1.87	0.87
2:I:1008:ILE:HD12	2:I:1013:VAL:HG22	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.56	0.87
2:H:1769:VAL:HG22	2:H:1775:ILE:HA	1.53	0.87
2:I:752:HIS:HE1	2:I:847:TYR:CE2	1.93	0.87
2:L:1769:VAL:HG22	2:L:1775:ILE:HA	1.53	0.87
1:C:1504:ARG:HG3	1:C:1504:ARG:NH1	1.81	0.87
2:I:511:THR:HG22	2:I:512:HIS:HD2	1.36	0.87
2:J:846:THR:HG21	2:J:866:HIS:HD2	1.32	0.87
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.73	0.87
2:K:1616:VAL:HG11	2:K:1679:LEU:HD12	1.55	0.87
1:C:1702:ARG:HH11	1:C:1702:ARG:HG2	1.36	0.87
1:E:1447:VAL:HG21	1:E:1467:LEU:HD21	1.55	0.87
2:L:1123:ALA:O	2:L:1126:GLU:HG3	1.73	0.87
2:L:1194:ARG:HG3	2:L:1194:ARG:NH1	1.71	0.87
1:E:967:PHE:CD2	1:E:1374:PRO:HG3	2.10	0.87
2:K:158:LEU:HD22	2:K:169:ILE:HD11	1.56	0.87
1:C:965:TYR:CZ	1:C:1199:LEU:HD22	2.09	0.87
1:F:72:THR:HB	1:F:74:VAL:HG23	1.57	0.87
2:H:2059:HIS:HE1	2:H:2068:ALA:HB2	1.40	0.87
2:K:1499:LYS:HB3	2:K:1505:SER:HB2	1.56	0.87
2:G:752:HIS:CE1	2:G:847:TYR:HE2	1.92	0.87
2:G:1890:ARG:HH22	2:G:1996:ILE:HD11	1.37	0.87
2:I:1616:VAL:HG11	2:I:1679:LEU:HD12	1.56	0.87
1:C:1499:ARG:HD3	1:F:1476:ARG:HH12	1.38	0.87
2:G:1616:VAL:HG11	2:G:1679:LEU:HD12	1.55	0.87
2:H:605:VAL:HB	2:H:628:ILE:HG13	1.57	0.87
2:I:1594:ARG:HG2	2:I:1594:ARG:NH1	1.85	0.87
2:J:1637:VAL:HG11	2:J:1679:LEU:HD13	1.55	0.87
2:J:1769:VAL:HG22	2:J:1775:ILE:HA	1.55	0.87
1:B:72:THR:HB	1:B:74:VAL:HG23	1.56	0.87
1:D:684:THR:HG23	1:D:686:ARG:H	1.39	0.87
2:G:1007:LEU:HD12	2:G:1007:LEU:H	1.40	0.87
2:J:1265:TYR:CE1	2:J:1267:PRO:HG3	2.09	0.87
2:L:791:TYR:HA	2:L:796:TRP:CD1	2.09	0.87
1:A:427:ARG:HH11	1:A:427:ARG:CG	1.87	0.86
1:B:1702:ARG:HH11	1:B:1702:ARG:HG3	1.40	0.86
1:D:605:ARG:HB3	1:D:606:PRO:CD	2.05	0.86
1:D:881:LEU:HA	1:D:884:MET:HG3	1.55	0.86
2:H:814:SER:HB2	4:H:2101:FMN:O3P	1.75	0.86
2:J:1918:VAL:HG13	2:J:2006:HIS:HB2	1.57	0.86
2:K:854:VAL:HG21	2:K:1070:PRO:HA	1.57	0.86
1:B:612:ILE:HG23	1:B:628:TYR:CD2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1919:ASN:HB2	2:L:1928:VAL:HB	1.55	0.86
1:A:962:ASN:HD22	2:G:1006:GLN:HE22	1.16	0.86
2:K:1007:LEU:H	2:K:1007:LEU:HD12	1.40	0.86
2:H:511:THR:HG22	2:H:512:HIS:HD2	1.38	0.86
2:L:1288:PHE:O	2:L:1292:VAL:HG23	1.74	0.86
1:F:397:ARG:HG2	1:F:397:ARG:NH1	1.84	0.86
2:H:1194:ARG:HH11	2:H:1194:ARG:CG	1.86	0.86
1:A:612:ILE:HD12	1:F:579:MET:CE	2.06	0.86
1:C:998:GLY:HA3	1:C:1361:VAL:HG13	1.56	0.86
1:D:1702:ARG:HH11	1:D:1702:ARG:HG2	1.40	0.86
1:F:1448:ALA:HA	1:F:1451:LYS:HE3	1.56	0.86
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.38	0.86
1:E:557:ARG:HH11	1:E:557:ARG:CG	1.89	0.86
1:E:1663:LYS:HG2	2:K:1007:LEU:HD11	1.56	0.86
1:F:526:MET:O	1:F:613:PRO:O	1.93	0.86
2:L:605:VAL:HB	2:L:628:ILE:HG13	1.56	0.86
2:L:854:VAL:HG21	2:L:1070:PRO:HA	1.58	0.86
1:D:397:ARG:HG2	1:D:397:ARG:NH1	1.82	0.86
2:H:1231:THR:HG23	2:H:1595:VAL:HG21	1.55	0.86
2:H:1602:LEU:HG	2:H:1606:ILE:HD11	1.57	0.86
1:B:1504:ARG:HG3	1:B:1504:ARG:NH1	1.84	0.86
1:E:962:ASN:ND2	2:K:1006:GLN:HE22	1.73	0.86
2:I:1454:MET:HE2	2:I:1550:SER:HA	1.58	0.86
1:B:1102:ILE:HD12	1:B:1146:ALA:HB3	1.58	0.85
1:D:741:ASP:OD1	1:D:793:ARG:HD3	1.75	0.85
2:L:2059:HIS:HE1	2:L:2068:ALA:HB2	1.40	0.85
1:D:989:ASN:H	1:D:1491:ASN:HD21	1.22	0.85
2:G:752:HIS:HE1	2:G:847:TYR:CE2	1.92	0.85
1:F:881:LEU:HA	1:F:884:MET:HG3	1.58	0.85
2:G:376:ARG:HB3	2:G:394:PRO:HG2	1.58	0.85
2:H:43:PHE:CD2	2:I:22:ARG:HG2	2.11	0.85
2:I:1868:GLN:HG2	2:I:1873:ARG:HH22	1.39	0.85
1:F:1504:ARG:HG3	1:F:1504:ARG:NH1	1.86	0.85
2:I:1769:VAL:HG22	2:I:1775:ILE:HA	1.56	0.85
1:C:427:ARG:HH11	1:C:427:ARG:CG	1.88	0.85
2:G:1868:GLN:HG2	2:G:1873:ARG:NH2	1.91	0.85
2:J:1340:LYS:HG3	2:L:376:ARG:NH2	1.92	0.85
2:L:752:HIS:CE1	2:L:847:TYR:HE2	1.94	0.85
2:L:814:SER:HB2	4:L:2101:FMN:O3P	1.76	0.85
1:A:1448:ALA:HA	1:A:1451:LYS:HE3	1.56	0.85
2:J:1499:LYS:HB3	2:J:1505:SER:HB2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1443:LEU:HD21	1:A:1470:ARG:CB	2.03	0.85
1:D:1443:LEU:HD21	1:D:1470:ARG:CB	2.05	0.85
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	1.91	0.85
1:E:1702:ARG:HH11	1:E:1702:ARG:HG2	1.42	0.85
2:G:1602:LEU:HG	2:G:1606:ILE:HD11	1.58	0.85
2:H:752:HIS:CE1	2:H:847:TYR:HE2	1.95	0.85
2:J:117:ASN:HA	2:J:561:ARG:HG3	1.57	0.85
1:B:868:VAL:HG11	1:B:908:ILE:HD11	1.57	0.85
2:H:1499:LYS:HB3	2:H:1505:SER:HB2	1.59	0.85
2:J:752:HIS:HE1	2:J:847:TYR:CE2	1.95	0.85
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.57	0.85
1:C:868:VAL:HG11	1:C:908:ILE:HD11	1.58	0.85
2:J:2059:HIS:HE1	2:J:2068:ALA:HB2	1.40	0.85
1:B:1663:LYS:HG2	2:H:1007:LEU:HD11	1.58	0.84
1:F:868:VAL:HG11	1:F:908:ILE:HD11	1.58	0.84
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.40	0.84
2:J:1919:ASN:HB2	2:J:1928:VAL:HB	1.55	0.84
2:K:1602:LEU:HG	2:K:1606:ILE:HD11	1.58	0.84
1:D:558:LEU:HB2	1:D:563:GLN:HG3	1.60	0.84
2:L:511:THR:HG22	2:L:512:HIS:HD2	1.38	0.84
2:L:1499:LYS:HB3	2:L:1505:SER:HB2	1.59	0.84
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.59	0.84
2:I:752:HIS:CE1	2:I:847:TYR:HE2	1.94	0.84
1:C:989:ASN:H	1:C:1491:ASN:HD21	1.22	0.84
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.34	0.84
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	1.93	0.84
2:J:511:THR:HG22	2:J:512:HIS:HD2	1.39	0.84
2:K:1194:ARG:HH11	2:K:1194:ARG:CG	1.83	0.84
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.60	0.84
2:J:635:TYR:CG	2:J:641:MET:HG3	2.12	0.84
1:D:868:VAL:HG11	1:D:908:ILE:HD11	1.58	0.84
1:D:1278:GLY:N	1:D:1282:THR:HG22	1.91	0.84
2:J:752:HIS:CE1	2:J:847:TYR:HE2	1.94	0.84
2:L:635:TYR:CG	2:L:641:MET:HG3	2.12	0.84
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.58	0.84
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.42	0.84
1:B:684:THR:HG23	1:B:686:ARG:H	1.42	0.84
1:C:498:THR:HG21	1:C:858:LEU:HA	1.57	0.84
1:F:1005:TRP:NE1	1:F:1561:LEU:HD22	1.93	0.84
2:G:818:THR:HG22	2:G:829:LYS:HB2	1.58	0.84
2:L:610:PRO:HG3	2:L:1047:LEU:HD22	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1231:THR:HG23	2:L:1595:VAL:HG21	1.58	0.84
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.78	0.84
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.60	0.84
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.43	0.84
2:L:752:HIS:HE1	2:L:847:TYR:CE2	1.94	0.84
2:L:1594:ARG:HG2	2:L:1594:ARG:NH1	1.92	0.84
1:D:1107:GLU:HG3	1:D:1108:PRO:HD2	1.60	0.83
2:I:1499:LYS:HB3	2:I:1505:SER:HB2	1.58	0.83
2:J:448:HIS:HD2	2:J:491:VAL:HG12	1.43	0.83
2:I:1265:TYR:CE1	2:I:1267:PRO:HG3	2.12	0.83
2:J:814:SER:HB2	4:J:2101:FMN:O3P	1.78	0.83
1:B:961:ALA:HB2	1:B:1022:LEU:HD12	1.60	0.83
1:D:557:ARG:HH11	1:D:557:ARG:CG	1.90	0.83
1:E:1102:ILE:HD12	1:E:1146:ALA:HB3	1.60	0.83
2:G:610:PRO:HG3	2:G:1047:LEU:HD22	1.59	0.83
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.59	0.83
2:I:2059:HIS:HE1	2:I:2068:ALA:HB2	1.41	0.83
2:J:1594:ARG:HG2	2:J:1594:ARG:NH1	1.87	0.83
2:L:1602:LEU:HG	2:L:1606:ILE:HD11	1.60	0.83
1:D:961:ALA:HB2	1:D:1022:LEU:HD12	1.60	0.83
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	1.59	0.83
2:I:814:SER:HB2	4:I:2101:FMN:O3P	1.78	0.83
1:E:741:ASP:OD1	1:E:793:ARG:HD3	1.77	0.83
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.92	0.83
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.58	0.83
2:H:1700:GLN:HA	2:H:1704:MET:HE1	1.59	0.83
1:C:669:VAL:O	1:C:673:LEU:HD12	1.78	0.83
2:K:685:VAL:HG23	2:K:1186:ARG:NH1	1.92	0.83
2:K:1637:VAL:HG11	2:K:1679:LEU:HD13	1.60	0.83
2:L:1454:MET:HE2	2:L:1550:SER:HA	1.61	0.83
1:A:557:ARG:HH11	1:A:557:ARG:CG	1.90	0.83
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.14	0.83
2:J:327:PRO:O	2:K:1338:ARG:NH2	2.11	0.83
1:E:532:ILE:HG21	1:E:907:PHE:HB2	1.60	0.83
2:K:610:PRO:HG3	2:K:1047:LEU:HD22	1.59	0.83
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.60	0.83
2:G:2059:HIS:HE1	2:G:2068:ALA:HB2	1.43	0.83
2:K:511:THR:HG22	2:K:512:HIS:HD2	1.42	0.83
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.79	0.82
1:D:1447:VAL:HG21	1:D:1467:LEU:HD21	1.61	0.82
1:E:967:PHE:CG	1:E:1374:PRO:HG3	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:814:SER:HB2	4:G:2101:FMN:O3P	1.79	0.82
2:K:605:VAL:HB	2:K:628:ILE:HG13	1.59	0.82
1:A:1447:VAL:HG21	1:A:1467:LEU:HD21	1.60	0.82
1:A:1565:PRO:HG3	1:A:1572:TRP:CZ3	2.14	0.82
1:C:1565:PRO:HG3	1:C:1572:TRP:CZ3	2.14	0.82
1:E:612:ILE:HG12	1:E:628:TYR:CE2	2.13	0.82
2:G:471:ASP:HB3	2:G:474:THR:O	1.79	0.82
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.61	0.82
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.95	0.82
2:H:1594:ARG:HG2	2:H:1594:ARG:NH1	1.89	0.82
2:J:610:PRO:HG3	2:J:1047:LEU:HD22	1.59	0.82
2:K:818:THR:HG22	2:K:829:LYS:HB2	1.59	0.82
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.60	0.82
1:D:406:ALA:HA	1:D:439:ARG:NH1	1.93	0.82
1:B:397:ARG:HG2	1:B:397:ARG:NH1	1.82	0.82
1:E:532:ILE:CG2	1:E:907:PHE:CB	2.58	0.82
1:F:535:TYR:OH	1:F:630:LYS:HE3	1.79	0.82
2:H:600:VAL:HG13	2:H:601:PRO:HD2	1.60	0.82
2:J:300:THR:HB	2:J:303:GLU:H	1.45	0.82
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.45	0.82
1:F:1447:VAL:HG21	1:F:1467:LEU:HD21	1.60	0.82
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.15	0.82
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.60	0.82
2:H:43:PHE:HB2	2:I:22:ARG:NH2	1.95	0.82
2:H:1454:MET:HE2	2:H:1550:SER:HA	1.61	0.82
2:I:1890:ARG:HH22	2:I:1996:ILE:HD11	1.43	0.82
2:K:783:GLY:HA3	2:K:1075:TYR:HB3	1.60	0.82
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.44	0.82
1:A:498:THR:HG21	1:A:858:LEU:HA	1.62	0.82
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.10	0.82
1:C:1443:LEU:HD21	1:C:1470:ARG:CB	2.06	0.82
1:D:1565:PRO:HG3	1:D:1572:TRP:CZ3	2.15	0.82
1:A:1702:ARG:HH11	1:A:1702:ARG:HG3	1.45	0.82
1:B:777:LEU:O	1:B:781:ILE:HG13	1.80	0.82
2:H:917:ARG:HG3	2:H:917:ARG:NH1	1.89	0.82
1:A:406:ALA:HA	1:A:439:ARG:NH1	1.93	0.81
1:A:1102:ILE:HD12	1:A:1146:ALA:HB3	1.61	0.81
1:B:1702:ARG:HH11	1:B:1702:ARG:HG2	1.42	0.81
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.09	0.81
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.44	0.81
2:K:1231:THR:HG23	2:K:1595:VAL:HG21	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.94	0.81
1:D:498:THR:HG21	1:D:858:LEU:HA	1.62	0.81
1:D:1702:ARG:HH11	1:D:1702:ARG:HG3	1.41	0.81
2:J:1454:MET:HE2	2:J:1550:SER:HA	1.62	0.81
1:A:408:GLN:HG2	1:A:1610:ARG:HH12	1.44	0.81
1:A:558:LEU:HB2	1:A:563:GLN:HG3	1.62	0.81
1:A:1363:MET:HE1	1:A:1373:VAL:HG21	1.61	0.81
1:B:406:ALA:HA	1:B:439:ARG:NH1	1.93	0.81
1:B:1094:LYS:HE3	1:B:1316:TYR:CD1	2.14	0.81
1:C:1107:GLU:HG3	1:C:1108:PRO:HD2	1.61	0.81
2:G:459:LYS:HA	2:G:485:ASP:OD1	1.80	0.81
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.45	0.81
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.63	0.81
2:K:1454:MET:HE2	2:K:1550:SER:HA	1.62	0.81
2:L:917:ARG:HG3	2:L:917:ARG:NH1	1.88	0.81
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.62	0.81
1:E:558:LEU:HB2	1:E:563:GLN:HG3	1.61	0.81
1:E:1703:VAL:HG11	1:E:1711:LEU:HB3	1.59	0.81
1:F:1565:PRO:HG3	1:F:1572:TRP:CZ3	2.16	0.81
2:H:448:HIS:HD2	2:H:491:VAL:HG12	1.46	0.81
2:I:1289:TYR:CG	2:I:1370:LEU:HD23	2.14	0.81
1:A:397:ARG:HG2	1:A:397:ARG:NH1	1.85	0.81
1:B:452:ILE:HD11	1:B:470:GLY:HA3	1.62	0.81
1:C:1447:VAL:HG21	1:C:1467:LEU:HD21	1.62	0.81
1:F:961:ALA:HB2	1:F:1022:LEU:HD12	1.61	0.81
2:H:635:TYR:CG	2:H:641:MET:HG3	2.14	0.81
2:I:635:TYR:CG	2:I:641:MET:HG3	2.16	0.81
2:I:917:ARG:HG3	2:I:917:ARG:NH1	1.88	0.81
2:I:1288:PHE:O	2:I:1292:VAL:HG23	1.79	0.81
2:J:685:VAL:HG23	2:J:1186:ARG:HH12	1.46	0.81
2:J:854:VAL:HG21	2:J:1070:PRO:HA	1.61	0.81
2:J:1746:THR:HB	2:J:1792:THR:HG23	1.62	0.81
1:B:1107:GLU:HG3	1:B:1108:PRO:HD2	1.61	0.81
1:B:1443:LEU:HD21	1:B:1470:ARG:CB	2.05	0.81
1:C:365:GLN:CG	1:D:365:GLN:HG3	2.11	0.81
1:C:1102:ILE:HD12	1:C:1146:ALA:HB3	1.63	0.81
2:H:374:GLU:HA	2:H:377:HIS:HD2	1.41	0.81
2:L:376:ARG:HB3	2:L:394:PRO:HG2	1.63	0.81
1:C:365:GLN:HG3	1:D:365:GLN:CG	2.11	0.81
1:E:1443:LEU:HD21	1:E:1470:ARG:CB	2.03	0.81
2:H:818:THR:HG22	2:H:829:LYS:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:752:HIS:HE1	2:H:847:TYR:CE2	1.95	0.81
2:I:1194:ARG:HH11	2:I:1194:ARG:CG	1.87	0.81
2:L:2057:GLU:HA	2:L:2060:ARG:NH1	1.95	0.81
1:B:1447:VAL:HG21	1:B:1467:LEU:HD21	1.63	0.81
1:C:406:ALA:HA	1:C:439:ARG:NH1	1.95	0.81
1:C:1005:TRP:NE1	1:C:1561:LEU:HD22	1.96	0.81
2:K:600:VAL:HG13	2:K:601:PRO:HD2	1.63	0.81
1:C:506:ILE:HD13	1:C:922:ILE:HG22	1.63	0.81
1:D:1102:ILE:HD12	1:D:1146:ALA:HB3	1.63	0.81
1:E:1565:PRO:HG3	1:E:1572:TRP:CZ3	2.16	0.81
1:F:684:THR:HG23	1:F:686:ARG:H	1.46	0.81
2:G:917:ARG:HG3	2:G:917:ARG:NH1	1.92	0.81
2:H:158:LEU:HA	2:H:566:VAL:HG21	1.62	0.81
2:I:374:GLU:HA	2:I:377:HIS:HD2	1.44	0.81
2:I:605:VAL:HB	2:I:628:ILE:HG13	1.63	0.81
2:J:2057:GLU:HA	2:J:2060:ARG:NH1	1.95	0.81
2:K:1700:GLN:HA	2:K:1704:MET:HE1	1.62	0.81
2:K:1868:GLN:HG2	2:K:1873:ARG:HH22	1.46	0.81
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.46	0.81
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.45	0.81
1:A:1005:TRP:NE1	1:A:1561:LEU:HD22	1.96	0.80
1:A:1443:LEU:CD2	1:A:1470:ARG:HB3	2.06	0.80
1:C:729:ILE:HA	1:C:736:LEU:CD2	2.11	0.80
1:E:397:ARG:HG2	1:E:397:ARG:NH1	1.83	0.80
1:E:498:THR:HG21	1:E:858:LEU:HA	1.63	0.80
1:F:1363:MET:HE1	1:F:1373:VAL:HG21	1.61	0.80
2:G:1499:LYS:HB3	2:G:1505:SER:HB2	1.63	0.80
2:H:43:PHE:CG	2:I:22:ARG:NE	2.49	0.80
1:A:973:TRP:CE2	1:A:1648:LYS:HB2	2.17	0.80
1:E:684:THR:HG23	1:E:686:ARG:H	1.44	0.80
2:J:459:LYS:HA	2:J:485:ASP:OD1	1.81	0.80
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.46	0.80
1:B:440:SER:HB3	1:B:481:LEU:HD23	1.61	0.80
1:C:1702:ARG:HH11	1:C:1702:ARG:HG3	1.46	0.80
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.61	0.80
1:F:538:ARG:HA	1:F:585:MET:HE1	1.61	0.80
1:F:1702:ARG:HH11	1:F:1702:ARG:HG3	1.44	0.80
2:I:911:GLN:HE21	2:I:1064:THR:HG23	1.46	0.80
2:H:1115:TYR:HB3	2:H:1267:PRO:HB3	1.62	0.80
2:I:1231:THR:HG23	2:I:1595:VAL:HG21	1.64	0.80
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:374:GLU:HA	2:K:377:HIS:HD2	1.46	0.80
1:A:1702:ARG:HH11	1:A:1702:ARG:HG2	1.45	0.80
1:B:1104:GLN:OE1	1:D:1107:GLU:HB2	1.80	0.80
1:C:1617:ILE:HD13	1:C:1617:ILE:H	1.47	0.80
1:D:1278:GLY:HA2	1:D:1630:LYS:HE2	1.62	0.80
1:F:1102:ILE:HD12	1:F:1146:ALA:HB3	1.61	0.80
1:F:1702:ARG:HH11	1:F:1702:ARG:HG2	1.45	0.80
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.81	0.80
2:I:685:VAL:HG12	2:I:687:ILE:HG13	1.64	0.80
2:I:1746:THR:HB	2:I:1792:THR:HG23	1.63	0.80
2:L:747:ARG:HH11	2:L:780:SER:HB3	1.46	0.80
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.63	0.80
1:D:1005:TRP:NE1	1:D:1561:LEU:HD22	1.97	0.80
1:E:406:ALA:HA	1:E:439:ARG:NH1	1.96	0.80
2:G:856:THR:HG23	2:G:866:HIS:CD2	2.17	0.80
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.64	0.80
2:I:1700:GLN:HA	2:I:1704:MET:HE1	1.64	0.80
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.63	0.80
2:L:459:LYS:HA	2:L:485:ASP:OD1	1.80	0.80
1:B:1617:ILE:H	1:B:1617:ILE:HD13	1.46	0.80
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.64	0.80
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.62	0.80
1:C:440:SER:HB3	1:C:481:LEU:HD23	1.64	0.80
2:G:605:VAL:HB	2:G:628:ILE:HG13	1.64	0.80
2:H:1288:PHE:O	2:H:1292:VAL:HG23	1.81	0.80
2:J:1700:GLN:HA	2:J:1704:MET:HE1	1.63	0.80
2:L:374:GLU:HA	2:L:377:HIS:HD2	1.45	0.80
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.82	0.79
1:D:527:ALA:HB2	1:D:637:LEU:CD2	2.12	0.79
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.64	0.79
2:K:747:ARG:HH11	2:K:780:SER:HB3	1.47	0.79
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.12	0.79
2:K:595:SER:HB3	2:K:602:PRO:CG	2.13	0.79
2:K:917:ARG:HG3	2:K:917:ARG:NH1	1.92	0.79
2:K:1746:THR:HB	2:K:1792:THR:HG23	1.63	0.79
2:I:459:LYS:HA	2:I:485:ASP:OD1	1.80	0.79
1:B:824:LEU:HB3	1:B:839:ILE:CD1	2.11	0.79
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.65	0.79
1:E:868:VAL:HG11	1:E:908:ILE:HD11	1.63	0.79
1:E:960:ARG:HB3	2:K:969:ARG:NH1	1.98	0.79
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2052:LYS:HD3	2:H:2074:TRP:HE1	1.43	0.79
1:D:965:TYR:CZ	1:D:1199:LEU:HD22	2.17	0.79
1:F:1674:ILE:HD11	2:L:1011:GLN:HG3	1.65	0.79
2:G:300:THR:HB	2:G:303:GLU:H	1.48	0.79
2:G:783:GLY:HA3	2:G:1075:TYR:HB3	1.63	0.79
2:G:1918:VAL:HG13	2:G:2006:HIS:HB2	1.63	0.79
2:H:685:VAL:HG12	2:H:687:ILE:HG13	1.65	0.79
2:H:903:ILE:HD11	2:H:914:TRP:CE2	2.17	0.79
2:K:903:ILE:HD11	2:K:914:TRP:CE2	2.18	0.79
2:L:2015:LYS:HB2	2:L:2016:PRO:HD3	1.63	0.79
1:B:1686:PRO:HB2	1:B:1713:PHE:CD1	2.18	0.79
1:F:406:ALA:HA	1:F:439:ARG:NH1	1.98	0.79
1:F:612:ILE:HD12	1:F:907:PHE:HZ	1.47	0.79
2:J:590:VAL:HG23	2:J:1091:HIS:NE2	1.96	0.79
1:A:868:VAL:HG11	1:A:908:ILE:HD11	1.61	0.79
1:B:1674:ILE:HD11	2:H:1011:GLN:HG3	1.63	0.79
1:C:612:ILE:HG23	1:C:628:TYR:CE2	2.18	0.79
2:G:374:GLU:HA	2:G:377:HIS:HD2	1.48	0.79
2:I:2057:GLU:HA	2:I:2060:ARG:NH1	1.98	0.79
1:B:498:THR:HG21	1:B:858:LEU:HA	1.64	0.79
1:B:552:ILE:HG12	1:E:552:ILE:HD11	1.65	0.79
1:C:1342:ARG:HH11	1:C:1347:THR:HB	1.47	0.79
1:D:440:SER:HB3	1:D:481:LEU:HD23	1.64	0.79
2:H:1890:ARG:HH22	2:H:1996:ILE:HD11	1.46	0.79
2:I:622:MET:SD	2:I:652:ILE:HD11	2.23	0.79
2:J:1231:THR:HG23	2:J:1595:VAL:HG21	1.65	0.79
2:K:685:VAL:HG12	2:K:687:ILE:HG13	1.64	0.79
2:L:1721:ARG:NH2	2:L:1853:ILE:HD12	1.97	0.79
1:B:881:LEU:HA	1:B:884:MET:HG3	1.63	0.78
1:D:905:LEU:HD22	1:D:911:LEU:HD21	1.65	0.78
1:F:964:LYS:O	1:F:966:PRO:HD3	1.83	0.78
2:I:300:THR:HB	2:I:303:GLU:H	1.48	0.78
2:J:856:THR:HG23	2:J:866:HIS:CD2	2.18	0.78
1:F:1443:LEU:HD21	1:F:1470:ARG:CB	2.07	0.78
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.64	0.78
2:I:1764:MET:HB3	2:I:1780:ILE:HD12	1.65	0.78
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.48	0.78
2:L:493:MET:HA	2:L:497:ASP:HB2	1.66	0.78
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.64	0.78
1:A:574:ILE:HG23	1:A:579:MET:CB	2.12	0.78
2:L:1442:TYR:O	2:L:1445:THR:HG22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.65	0.78
2:I:158:LEU:HD22	2:I:169:ILE:HD11	1.65	0.78
2:J:903:ILE:HD11	2:J:914:TRP:CE2	2.19	0.78
2:K:1120:ILE:HD13	2:K:1173:HIS:CE1	2.17	0.78
2:G:1454:MET:HE2	2:G:1550:SER:HA	1.65	0.78
1:D:669:VAL:O	1:D:673:LEU:HD12	1.84	0.78
2:G:2052:LYS:HD3	2:G:2074:TRP:HE1	1.46	0.78
2:I:854:VAL:HG21	2:I:1070:PRO:HA	1.65	0.78
2:K:2057:GLU:HA	2:K:2060:ARG:NH1	1.98	0.78
2:H:1442:TYR:O	2:H:1445:THR:HG22	1.83	0.78
1:E:824:LEU:HB3	1:E:839:ILE:CD1	2.12	0.78
1:F:616:HIS:HA	1:F:633:THR:HG23	1.66	0.78
1:F:777:LEU:O	1:F:781:ILE:HG13	1.84	0.78
2:K:493:MET:HA	2:K:497:ASP:HB2	1.64	0.78
1:B:741:ASP:OD1	1:B:793:ARG:HD3	1.84	0.78
1:E:973:TRP:CE2	1:E:1648:LYS:HB2	2.19	0.78
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.64	0.78
2:G:595:SER:HB3	2:G:602:PRO:CG	2.13	0.78
2:J:1706:MET:O	2:J:1709:TYR:HB3	1.84	0.78
2:K:2059:HIS:CE1	2:K:2068:ALA:HB2	2.18	0.78
1:B:1499:ARG:CD	1:D:1476:ARG:HH12	1.96	0.78
1:E:430:VAL:HG11	1:E:490:VAL:HG11	1.66	0.78
2:H:300:THR:HB	2:H:303:GLU:H	1.49	0.78
2:J:911:GLN:HE21	2:J:1064:THR:HG23	1.49	0.78
2:K:471:ASP:HB3	2:K:474:THR:O	1.83	0.78
2:L:685:VAL:HG12	2:L:687:ILE:HG13	1.66	0.78
1:A:669:VAL:O	1:A:673:LEU:HD12	1.83	0.77
1:C:613:PRO:HG2	1:C:633:THR:HG21	1.65	0.77
1:F:22:PHE:HE2	2:L:2017:PHE:CG	2.01	0.77
2:G:1594:ARG:HG2	2:G:1594:ARG:NH1	1.90	0.77
2:K:718:PRO:HG2	2:K:727:VAL:HG21	1.64	0.77
2:K:1594:ARG:HG2	2:K:1594:ARG:NH1	1.93	0.77
2:L:590:VAL:HG23	2:L:1091:HIS:NE2	1.99	0.77
2:L:903:ILE:HD11	2:L:914:TRP:CE2	2.18	0.77
1:C:430:VAL:HG11	1:C:490:VAL:HG11	1.66	0.77
1:D:31:THR:HG23	2:J:2040:ILE:HG21	1.66	0.77
1:D:408:GLN:HG2	1:D:1610:ARG:HH12	1.50	0.77
2:J:917:ARG:HG3	2:J:917:ARG:NH1	1.92	0.77
2:K:208:LEU:HD12	2:K:227:ILE:HD11	1.67	0.77
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.18	0.77
2:K:1890:ARG:HH22	2:K:1996:ILE:HD11	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1890:ARG:HH22	2:L:1996:ILE:HD11	1.48	0.77
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.14	0.77
1:E:965:TYR:CE1	1:E:1199:LEU:HD22	2.20	0.77
1:F:498:THR:HG21	1:F:858:LEU:HA	1.64	0.77
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.14	0.77
2:G:493:MET:HA	2:G:497:ASP:HB2	1.66	0.77
2:H:747:ARG:HH11	2:H:780:SER:HB3	1.48	0.77
2:K:855:ILE:HD13	2:K:856:THR:H	1.49	0.77
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.13	0.77
2:H:622:MET:SD	2:H:652:ILE:HD11	2.23	0.77
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.47	0.77
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.46	0.77
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.46	0.77
1:B:1278:GLY:HA2	1:B:1630:LYS:HE2	1.66	0.77
1:D:1342:ARG:HH12	1:D:1347:THR:HB	1.48	0.77
2:G:1288:PHE:O	2:G:1292:VAL:HG23	1.84	0.77
2:G:1746:THR:HB	2:G:1792:THR:HG23	1.65	0.77
2:H:595:SER:HB3	2:H:602:PRO:CG	2.15	0.77
2:J:284:GLY:H	2:J:289:ILE:HD12	1.49	0.77
2:J:747:ARG:HH11	2:J:780:SER:HB3	1.49	0.77
2:J:855:ILE:HD13	2:J:856:THR:H	1.50	0.77
2:L:783:GLY:HA3	2:L:1075:TYR:HB3	1.66	0.77
2:H:1602:LEU:HG	2:H:1606:ILE:CD1	2.14	0.77
2:I:1602:LEU:HG	2:I:1606:ILE:CD1	2.14	0.77
2:J:685:VAL:HG12	2:J:687:ILE:HG13	1.65	0.77
2:K:289:ILE:HG23	2:K:490:LEU:HD22	1.66	0.77
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.66	0.77
1:B:1342:ARG:HH12	1:B:1347:THR:HB	1.49	0.77
2:H:459:LYS:HA	2:H:485:ASP:OD1	1.84	0.77
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.66	0.77
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.18	0.77
2:I:856:THR:HG23	2:I:866:HIS:CD2	2.19	0.77
2:J:376:ARG:HB3	2:J:394:PRO:HG2	1.64	0.77
1:A:777:LEU:O	1:A:781:ILE:HG13	1.85	0.77
1:B:1279:ALA:O	1:B:1282:THR:HG23	1.85	0.77
1:D:1342:ARG:HH11	1:D:1347:THR:HB	1.48	0.77
2:G:1231:THR:HG23	2:G:1595:VAL:HG21	1.64	0.77
2:I:487:ILE:HB	2:I:488:PRO:HD3	1.66	0.77
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.67	0.77
1:D:1617:ILE:HD13	1:D:1617:ILE:H	1.50	0.77
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:855:ILE:HD13	2:G:856:THR:H	1.50	0.77
2:G:1700:GLN:HA	2:G:1704:MET:HE1	1.64	0.77
2:L:300:THR:HB	2:L:303:GLU:H	1.49	0.77
1:E:964:LYS:O	1:E:966:PRO:HD3	1.85	0.77
2:H:855:ILE:HD13	2:H:856:THR:H	1.49	0.77
2:K:358:ARG:NH2	2:K:383:VAL:HG21	2.00	0.77
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.65	0.77
2:L:2036:ILE:HG22	2:L:2037:GLY:N	2.00	0.77
1:A:684:THR:HG23	1:A:686:ARG:H	1.48	0.76
1:D:973:TRP:CE2	1:D:1648:LYS:HB2	2.20	0.76
2:L:1460:THR:HG22	2:L:1462:GLN:H	1.50	0.76
1:A:1278:GLY:HA2	1:A:1630:LYS:HE2	1.67	0.76
1:C:973:TRP:CE2	1:C:1648:LYS:HB2	2.20	0.76
1:E:440:SER:HB3	1:E:481:LEU:HD23	1.66	0.76
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.66	0.76
2:I:284:GLY:H	2:I:289:ILE:HD12	1.50	0.76
2:I:747:ARG:HH11	2:I:780:SER:HB3	1.50	0.76
2:I:1460:THR:HG22	2:I:1462:GLN:H	1.50	0.76
2:J:493:MET:HA	2:J:497:ASP:HB2	1.67	0.76
2:J:818:THR:HG22	2:J:829:LYS:HB2	1.67	0.76
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.66	0.76
1:B:1490:GLY:O	1:B:1509:THR:HB	1.84	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.14	0.76
2:G:207:LEU:O	2:G:211:LEU:HG	1.85	0.76
2:H:487:ILE:HB	2:H:488:PRO:HD3	1.66	0.76
2:J:914:TRP:NE1	2:J:916:GLY:HA3	2.00	0.76
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.50	0.76
2:K:1181:PHE:CE1	2:K:1191:PRO:HD2	2.20	0.76
2:L:818:THR:HG22	2:L:829:LYS:HB2	1.64	0.76
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.00	0.76
2:H:336:LEU:O	2:H:340:VAL:HG23	1.86	0.76
2:L:284:GLY:H	2:L:289:ILE:HD12	1.49	0.76
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.21	0.76
1:B:973:TRP:CE2	1:B:1648:LYS:HB2	2.20	0.76
1:C:392:ASP:HB3	1:C:395:LYS:HD2	1.65	0.76
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.68	0.76
1:D:777:LEU:O	1:D:781:ILE:HG13	1.85	0.76
1:D:1443:LEU:CD2	1:D:1470:ARG:HB3	2.08	0.76
1:E:955:VAL:HG21	2:K:964:ARG:HH21	1.49	0.76
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.65	0.76
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.20	0.76
2:L:674:ILE:HD13	2:L:705:TYR:CE2	2.20	0.76
2:L:1700:GLN:HA	2:L:1704:MET:HE1	1.65	0.76
1:A:365:GLN:HG3	1:F:365:GLN:CG	2.16	0.76
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.66	0.76
1:B:965:TYR:CZ	1:B:1199:LEU:HD22	2.21	0.76
1:E:1617:ILE:H	1:E:1617:ILE:HD13	1.50	0.76
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.21	0.76
2:G:487:ILE:HB	2:G:488:PRO:HD3	1.68	0.76
1:B:562:SER:HB3	1:E:551:LEU:HD21	1.66	0.76
1:B:1107:GLU:HB2	1:D:1104:GLN:OE1	1.85	0.76
1:B:1565:PRO:HG3	1:B:1572:TRP:CZ3	2.20	0.76
2:H:471:ASP:HB3	2:H:474:THR:O	1.86	0.76
2:J:1602:LEU:HG	2:J:1606:ILE:HD11	1.66	0.76
2:J:2059:HIS:CE1	2:J:2068:ALA:HB2	2.21	0.76
2:K:459:LYS:HA	2:K:485:ASP:OD1	1.85	0.76
2:K:622:MET:SD	2:K:652:ILE:HD11	2.26	0.76
1:B:1149:LEU:HB2	1:D:1149:LEU:HB2	1.68	0.76
1:B:1342:ARG:HH11	1:B:1347:THR:HB	1.49	0.76
1:E:632:LEU:HA	1:E:635:ILE:HG22	1.68	0.76
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.01	0.76
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.86	0.76
2:H:571:ASP:OD1	2:H:573:VAL:HG23	1.85	0.76
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.20	0.76
2:J:1340:LYS:CE	2:L:376:ARG:HH22	1.98	0.76
2:K:2037:GLY:HA2	2:K:2048:PHE:O	1.86	0.76
2:L:1194:ARG:HH11	2:L:1194:ARG:CG	1.86	0.76
2:G:1764:MET:HB3	2:G:1780:ILE:HD12	1.68	0.76
2:J:487:ILE:HB	2:J:488:PRO:HD3	1.67	0.76
1:C:1443:LEU:O	1:C:1447:VAL:HG23	1.85	0.76
2:I:440:HIS:CD2	2:I:499:VAL:HG23	2.21	0.76
2:J:1770:ASN:HB2	2:J:1776:LYS:HE2	1.67	0.76
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.20	0.76
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.66	0.76
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.50	0.76
2:I:783:GLY:HA3	2:I:1075:TYR:HB3	1.67	0.75
2:J:1890:ARG:HH22	2:J:1996:ILE:HD11	1.49	0.75
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.66	0.75
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.68	0.75
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.51	0.75
1:C:1342:ARG:HH12	1:C:1347:THR:HB	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1279:ALA:O	1:E:1282:THR:HG23	1.86	0.75
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.67	0.75
2:H:590:VAL:HG23	2:H:1091:HIS:NE2	2.01	0.75
2:I:779:GLY:O	2:I:780:SER:HB2	1.85	0.75
2:K:265:CYS:SG	2:K:275:LEU:HD12	2.26	0.75
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.67	0.75
1:C:824:LEU:HB3	1:C:839:ILE:CD1	2.15	0.75
2:H:709:LEU:HD23	2:H:709:LEU:H	1.51	0.75
2:I:1468:ARG:HH12	2:I:1475:LEU:HB2	1.51	0.75
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.68	0.75
2:K:1460:THR:HG22	2:K:1462:GLN:H	1.51	0.75
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.68	0.75
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.75
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.66	0.75
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.22	0.75
1:F:1342:ARG:HH12	1:F:1347:THR:HB	1.50	0.75
2:G:1602:LEU:HG	2:G:1606:ILE:CD1	2.15	0.75
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.68	0.75
2:I:1305:LEU:HD11	2:I:1365:LYS:HD2	1.68	0.75
2:I:1420:LYS:HG2	2:I:1425:PRO:HA	1.69	0.75
2:J:595:SER:HB3	2:J:602:PRO:CG	2.15	0.75
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.75
2:K:1602:LEU:HG	2:K:1606:ILE:CD1	2.15	0.75
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.22	0.75
1:A:392:ASP:HB3	1:A:395:LYS:HD2	1.68	0.75
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.68	0.75
1:C:767:HIS:CE1	1:D:767:HIS:HE1	2.05	0.75
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.21	0.75
1:F:1703:VAL:CG1	1:F:1711:LEU:HB3	2.16	0.75
2:G:685:VAL:HG12	2:G:687:ILE:HG13	1.66	0.75
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.21	0.75
2:I:709:LEU:HD23	2:I:709:LEU:H	1.52	0.75
2:J:374:GLU:HA	2:J:377:HIS:HD2	1.47	0.75
2:J:674:ILE:HD13	2:J:705:TYR:CE2	2.22	0.75
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.17	0.75
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.69	0.75
1:E:452:ILE:HD11	1:E:470:GLY:HA3	1.68	0.75
1:E:777:LEU:O	1:E:781:ILE:HG13	1.86	0.75
1:F:1617:ILE:HD13	1:F:1617:ILE:H	1.52	0.75
2:I:376:ARG:HB3	2:I:394:PRO:HG2	1.67	0.75
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:824:LEU:HB3	1:A:839:ILE:CD1	2.16	0.75
1:E:729:ILE:HA	1:E:736:LEU:CD2	2.16	0.75
1:F:1079:ARG:HH11	1:F:1079:ARG:CG	1.97	0.75
1:F:1342:ARG:HH11	1:F:1347:THR:HB	1.51	0.75
2:H:493:MET:HA	2:H:497:ASP:HB2	1.67	0.75
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.50	0.75
2:I:663:ILE:H	2:I:663:ILE:HD12	1.52	0.75
2:J:1985:GLN:O	2:J:1987:VAL:N	2.19	0.75
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.87	0.75
1:B:1443:LEU:CD2	1:B:1470:ARG:HB3	2.08	0.75
2:G:1339:GLY:HA2	2:I:376:ARG:HE	1.52	0.75
1:B:616:HIS:HA	1:B:633:THR:HG23	1.68	0.75
1:C:1279:ALA:O	1:C:1282:THR:HG23	1.87	0.75
1:D:1279:ALA:O	1:D:1282:THR:HG23	1.86	0.75
1:D:1443:LEU:O	1:D:1447:VAL:HG23	1.85	0.75
2:G:1053:ILE:HD12	2:G:1061:VAL:HG22	1.68	0.75
2:G:1770:ASN:HB2	2:G:1776:LYS:HE2	1.68	0.75
2:H:1468:ARG:HH12	2:H:1475:LEU:HB2	1.51	0.75
2:H:1985:GLN:O	2:H:1987:VAL:N	2.19	0.75
2:J:471:ASP:HB3	2:J:474:THR:O	1.87	0.75
2:J:1867:MET:O	2:J:2003:VAL:HG21	1.87	0.74
2:K:709:LEU:HD23	2:K:709:LEU:H	1.52	0.74
2:L:487:ILE:HB	2:L:488:PRO:HD3	1.67	0.74
2:L:2052:LYS:HB3	2:L:2074:TRP:CE2	2.22	0.74
1:C:452:ILE:HD11	1:C:470:GLY:HA3	1.69	0.74
1:E:560:LYS:O	1:E:564:LEU:HB2	1.86	0.74
1:E:1094:LYS:HE3	1:E:1316:TYR:CD1	2.21	0.74
2:H:2052:LYS:HB3	2:H:2074:TRP:CE2	2.22	0.74
2:L:855:ILE:HD13	2:L:856:THR:H	1.51	0.74
2:L:1602:LEU:HG	2:L:1606:ILE:CD1	2.17	0.74
1:F:452:ILE:HD11	1:F:470:GLY:HA3	1.68	0.74
2:I:2037:GLY:HA2	2:I:2048:PHE:O	1.87	0.74
2:J:1340:LYS:HE3	2:L:376:ARG:HH22	1.51	0.74
2:K:420:PRO:HG3	2:K:847:TYR:HD1	1.53	0.74
2:K:1706:MET:O	2:K:1709:TYR:HB3	1.87	0.74
2:L:1746:THR:HB	2:L:1792:THR:HG23	1.67	0.74
1:B:1476:ARG:HH12	1:D:1499:ARG:HD3	1.52	0.74
1:D:423:ARG:O	1:D:429:ILE:HD11	1.88	0.74
2:G:208:LEU:HD12	2:G:227:ILE:HD11	1.68	0.74
2:H:1721:ARG:NH2	2:H:1853:ILE:HD12	2.02	0.74
2:I:2005:PHE:CB	2:I:2010:LEU:HD11	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:663:ILE:HD12	2:L:663:ILE:H	1.51	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.68	0.74
2:I:855:ILE:HD13	2:I:856:THR:H	1.52	0.74
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.20	0.74
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.68	0.74
1:A:1617:ILE:HD13	1:A:1617:ILE:H	1.53	0.74
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.86	0.74
2:G:265:CYS:SG	2:G:275:LEU:HD12	2.28	0.74
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.18	0.74
2:K:1499:LYS:HG3	2:K:1500:ASN:H	1.53	0.74
1:A:560:LYS:O	1:A:564:LEU:HB2	1.87	0.74
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.51	0.74
1:B:365:GLN:HG3	1:E:365:GLN:CG	2.17	0.74
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.70	0.74
1:E:1052:ASP:OD2	1:E:1055:THR:HG22	1.88	0.74
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.70	0.74
2:I:610:PRO:HG3	2:I:1047:LEU:HD22	1.69	0.74
2:G:1442:TYR:O	2:G:1445:THR:HG22	1.88	0.74
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.68	0.74
2:K:1468:ARG:HH12	2:K:1475:LEU:HB2	1.52	0.74
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.69	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.69	0.74
1:C:528:GLU:O	1:C:611:THR:HG21	1.88	0.74
1:D:524:LYS:HB3	1:D:528:GLU:OE2	1.88	0.74
2:G:506:VAL:O	2:G:506:VAL:HG12	1.86	0.74
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.70	0.74
2:J:1420:LYS:HG2	2:J:1425:PRO:HA	1.69	0.74
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.02	0.74
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.70	0.74
1:C:767:HIS:HE1	1:D:767:HIS:CE1	2.05	0.74
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.74
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.68	0.74
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.01	0.74
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.70	0.74
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.69	0.74
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1985:GLN:O	2:G:1987:VAL:N	2.19	0.73
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.23	0.73
2:H:1746:THR:HB	2:H:1792:THR:HG23	1.69	0.73
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.68	0.73
1:B:608:LYS:O	1:B:610:GLU:HG2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.02	0.73
2:G:622:MET:SD	2:G:652:ILE:HD11	2.28	0.73
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.69	0.73
2:K:718:PRO:CG	2:K:727:VAL:HG21	2.18	0.73
2:K:1803:THR:HA	2:K:1806:THR:HB	1.69	0.73
2:L:336:LEU:O	2:L:340:VAL:HG23	1.89	0.73
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.23	0.73
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.89	0.73
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.52	0.73
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.69	0.73
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.23	0.73
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.69	0.73
2:I:1891:ILE:HD11	2:I:1943:LEU:HB3	1.69	0.73
2:K:440:HIS:HD2	2:K:497:ASP:O	1.70	0.73
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.68	0.73
2:L:1706:MET:O	2:L:1709:TYR:HB3	1.88	0.73
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.69	0.73
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.89	0.73
1:C:616:HIS:HA	1:C:633:THR:HG23	1.69	0.73
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.70	0.73
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.73
2:G:1706:MET:O	2:G:1709:TYR:HB3	1.88	0.73
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.22	0.73
2:H:1499:LYS:HG3	2:H:1500:ASN:H	1.53	0.73
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.53	0.73
1:F:1279:ALA:O	1:F:1282:THR:HG23	1.88	0.73
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.68	0.73
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.24	0.73
2:L:595:SER:HB3	2:L:602:PRO:CG	2.15	0.73
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.04	0.73
1:A:1504:ARG:CG	1:A:1504:ARG:NH1	2.45	0.73
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.69	0.73
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.70	0.73
2:G:420:PRO:HG3	2:G:847:TYR:HD1	1.53	0.73
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.24	0.73
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.52	0.73
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.52	0.73
2:J:2037:GLY:HA2	2:J:2048:PHE:O	1.88	0.73
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.24	0.73
1:B:423:ARG:O	1:B:429:ILE:HD11	1.88	0.73
1:B:1052:ASP:OD2	1:B:1055:THR:HG22	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:VAL:HG11	1:D:1711:LEU:HB3	1.71	0.73
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.23	0.73
2:I:1499:LYS:HG3	2:I:1500:ASN:H	1.54	0.73
2:J:158:LEU:HD22	2:J:169:ILE:HD11	1.71	0.73
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.70	0.73
2:L:622:MET:SD	2:L:652:ILE:HD11	2.29	0.73
2:L:709:LEU:HD23	2:L:709:LEU:H	1.54	0.73
1:B:632:LEU:HA	1:B:635:ILE:HG22	1.68	0.73
1:C:632:LEU:HA	1:C:635:ILE:HG22	1.69	0.73
1:D:452:ILE:HD11	1:D:470:GLY:HA3	1.69	0.73
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.24	0.73
2:I:590:VAL:HG23	2:I:1091:HIS:NE2	2.04	0.73
2:J:365:ILE:HG23	2:J:378:ILE:HG22	1.71	0.73
2:K:779:GLY:O	2:K:780:SER:HB2	1.87	0.73
2:L:1770:ASN:HB2	2:L:1776:LYS:HE2	1.70	0.73
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.03	0.73
1:A:452:ILE:HD11	1:A:470:GLY:HA3	1.70	0.73
1:F:1443:LEU:O	1:F:1447:VAL:HG23	1.88	0.73
2:I:1721:ARG:NH2	2:I:1853:ILE:HD12	2.04	0.73
2:I:1918:VAL:HG13	2:I:2006:HIS:HB2	1.69	0.73
2:K:300:THR:HB	2:K:303:GLU:H	1.52	0.73
1:A:1107:GLU:HB2	1:E:1104:GLN:OE1	1.89	0.73
1:C:1107:GLU:HB2	1:F:1104:GLN:OE1	1.89	0.73
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.88	0.73
2:I:420:PRO:HG3	2:I:847:TYR:CD1	2.24	0.73
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	2.24	0.73
2:J:622:MET:SD	2:J:652:ILE:HD11	2.29	0.73
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.53	0.73
2:K:1420:LYS:HG2	2:K:1425:PRO:HA	1.71	0.73
2:I:818:THR:HG22	2:I:829:LYS:HB2	1.69	0.72
2:K:461:PRO:HA	2:K:484:GLU:O	1.89	0.72
1:A:1052:ASP:OD2	1:A:1055:THR:HG22	1.88	0.72
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.71	0.72
1:E:1443:LEU:CD2	1:E:1470:ARG:HB3	2.07	0.72
2:G:1890:ARG:HH22	2:G:1996:ILE:CD1	2.01	0.72
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.70	0.72
2:K:1721:ARG:NH2	2:K:1853:ILE:HD12	2.05	0.72
2:L:461:PRO:HA	2:L:484:GLU:O	1.89	0.72
2:L:471:ASP:HB3	2:L:474:THR:O	1.89	0.72
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.03	0.72
1:A:427:ARG:HH12	1:A:492:ILE:HG23	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1052:ASP:OD2	1:D:1055:THR:HG22	1.89	0.72
1:E:392:ASP:HB3	1:E:395:LYS:HD2	1.71	0.72
1:E:978:LYS:HB3	1:E:979:PRO:HD3	1.70	0.72
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.70	0.72
2:H:1301:PHE:HB3	2:H:1364:ARG:HG3	1.70	0.72
2:I:471:ASP:HB3	2:I:474:THR:O	1.89	0.72
2:I:609:THR:OG1	2:I:610:PRO:HD3	1.89	0.72
2:L:1499:LYS:HG3	2:L:1500:ASN:H	1.55	0.72
1:B:964:LYS:O	1:B:966:PRO:HD3	1.89	0.72
1:C:1443:LEU:CD2	1:C:1470:ARG:HB3	2.10	0.72
1:E:613:PRO:O	1:E:615:LEU:N	2.22	0.72
2:H:942:MET:CE	2:H:955:LEU:HB3	2.20	0.72
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.72	0.72
2:J:158:LEU:HA	2:J:566:VAL:HG21	1.70	0.72
2:K:2005:PHE:CB	2:K:2010:LEU:HD11	2.18	0.72
2:K:2052:LYS:HB3	2:K:2074:TRP:CE2	2.25	0.72
1:B:669:VAL:O	1:B:673:LEU:HD12	1.90	0.72
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.71	0.72
2:G:590:VAL:HG23	2:G:1091:HIS:NE2	2.04	0.72
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.71	0.72
2:H:1833:PHE:CZ	2:H:2039:TYR:HB2	2.24	0.72
2:J:489:GLU:HA	2:J:492:ARG:NH1	2.04	0.72
2:J:1053:ILE:HD12	2:J:1061:VAL:HG22	1.70	0.72
2:J:1178:THR:HG22	2:J:1180:VAL:H	1.55	0.72
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.71	0.72
1:B:408:GLN:HG2	1:B:1610:ARG:HH12	1.55	0.72
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.71	0.72
2:G:358:ARG:NH2	2:G:383:VAL:HG21	2.05	0.72
2:H:1074:LYS:HE3	2:H:1075:TYR:HE1	1.54	0.72
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.71	0.72
2:L:1764:MET:HB3	2:L:1780:ILE:HD12	1.71	0.72
1:A:1104:GLN:OE1	1:E:1107:GLU:HB2	1.89	0.72
1:C:684:THR:HG23	1:C:686:ARG:H	1.53	0.72
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.70	0.72
2:G:1331:THR:HG22	2:I:329:THR:HA	1.71	0.72
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.54	0.72
2:K:1985:GLN:O	2:K:1987:VAL:N	2.20	0.72
2:K:190:TYR:HD1	2:K:201:ILE:HD13	1.55	0.72
2:K:590:VAL:HG23	2:K:1091:HIS:NE2	2.04	0.72
2:K:911:GLN:HE21	2:K:1064:THR:HG23	1.53	0.72
2:L:930:THR:HG23	2:L:933:GLU:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.72	0.72
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.69	0.72
2:G:289:ILE:HG12	2:G:493:MET:HE1	1.71	0.72
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.71	0.72
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.72	0.72
2:L:358:ARG:HH21	2:L:383:VAL:HG21	1.54	0.72
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.71	0.72
1:E:539:THR:O	1:E:542:GLN:HG2	1.90	0.72
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.19	0.72
2:H:327:PRO:CD	2:I:1338:ARG:HH21	2.02	0.72
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.70	0.72
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.25	0.72
2:K:914:TRP:NE1	2:K:916:GLY:HA3	2.05	0.72
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.24	0.72
1:A:617:LEU:N	1:A:617:LEU:HD23	2.05	0.71
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.70	0.71
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.04	0.71
2:G:289:ILE:HG23	2:G:490:LEU:HD22	1.72	0.71
2:I:493:MET:HA	2:I:497:ASP:HB2	1.71	0.71
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.70	0.71
2:J:1891:ILE:HD11	2:J:1943:LEU:HB3	1.72	0.71
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.24	0.71
2:L:506:VAL:HG12	2:L:506:VAL:O	1.90	0.71
1:A:365:GLN:CG	1:F:365:GLN:HG3	2.19	0.71
1:B:427:ARG:NH1	1:B:492:ILE:HG23	1.99	0.71
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.72	0.71
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.72	0.71
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.55	0.71
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.71	0.71
2:J:663:ILE:H	2:J:663:ILE:HD12	1.56	0.71
2:J:1194:ARG:HH11	2:J:1194:ARG:CG	1.82	0.71
2:K:2036:ILE:HG22	2:K:2037:GLY:N	2.05	0.71
2:L:448:HIS:CD2	2:L:491:VAL:HG12	2.26	0.71
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.73	0.71
1:C:535:TYR:CD1	1:C:610:GLU:N	2.58	0.71
1:D:632:LEU:HA	1:D:635:ILE:HG22	1.71	0.71
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.24	0.71
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.72	0.71
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.25	0.71
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.72	0.71
2:I:1706:MET:O	2:I:1709:TYR:HB3	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.70	0.71
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.25	0.71
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.53	0.71
1:A:964:LYS:O	1:A:966:PRO:HD3	1.91	0.71
1:B:365:GLN:CG	1:E:365:GLN:HG3	2.18	0.71
1:D:560:LYS:O	1:D:564:LEU:HB2	1.89	0.71
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.71	0.71
1:D:964:LYS:O	1:D:966:PRO:HD3	1.89	0.71
1:E:955:VAL:HG11	2:K:964:ARG:HE	1.54	0.71
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.73	0.71
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.24	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.06	0.71
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.06	0.71
2:I:336:LEU:O	2:I:340:VAL:HG23	1.91	0.71
2:J:327:PRO:CD	2:K:1338:ARG:HH21	2.04	0.71
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.25	0.71
2:J:779:GLY:O	2:J:780:SER:HB2	1.90	0.71
2:J:1340:LYS:CG	2:L:376:ARG:NH2	2.53	0.71
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.05	0.71
2:L:917:ARG:HG2	2:L:937:ARG:NH1	2.06	0.71
1:B:961:ALA:CB	1:B:1022:LEU:HD12	2.20	0.71
1:F:632:LEU:HA	1:F:635:ILE:HG22	1.73	0.71
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.25	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:H	1.54	0.71
2:I:506:VAL:HG12	2:I:506:VAL:O	1.90	0.71
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.25	0.71
2:K:656:ARG:HH11	2:K:656:ARG:HG2	1.55	0.71
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.24	0.71
1:A:339:GLN:O	1:A:343:ILE:HG13	1.90	0.71
1:C:538:ARG:HA	1:C:585:MET:HE1	1.73	0.71
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.90	0.71
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	2.02	0.71
2:G:2036:ILE:HG22	2:G:2037:GLY:N	2.05	0.71
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.55	0.71
2:H:1420:LYS:HG2	2:H:1425:PRO:HA	1.72	0.71
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.24	0.71
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.24	0.71
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.91	0.71
2:J:1074:LYS:HE3	2:J:1075:TYR:HE1	1.56	0.71
2:K:448:HIS:CD2	2:K:491:VAL:HG12	2.26	0.71
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1803:THR:HA	2:L:1806:THR:HB	1.71	0.71
1:A:859:VAL:HG12	1:A:863:VAL:HG23	1.72	0.71
1:A:978:LYS:HB3	1:A:979:PRO:HD3	1.71	0.71
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.73	0.71
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.72	0.71
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.73	0.71
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.55	0.71
1:C:1270:THR:HA	1:F:1386:THR:O	1.90	0.71
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.53	0.71
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.90	0.71
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.20	0.71
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.26	0.71
2:H:1610:MET:HE2	2:H:1610:MET:HA	1.70	0.71
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.72	0.71
2:L:930:THR:HG22	2:L:933:GLU:CG	2.20	0.71
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.06	0.71
1:A:423:ARG:O	1:A:429:ILE:HD11	1.91	0.71
1:D:616:HIS:HA	1:D:633:THR:HG23	1.70	0.71
1:E:423:ARG:O	1:E:429:ILE:HD11	1.90	0.71
1:F:427:ARG:NH1	1:F:492:ILE:HG23	1.98	0.71
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.72	0.71
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.25	0.71
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.26	0.71
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.55	0.71
2:K:942:MET:CE	2:K:955:LEU:HB3	2.20	0.71
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.06	0.71
2:L:1891:ILE:HD11	2:L:1943:LEU:HB3	1.72	0.71
1:B:1386:THR:O	1:D:1270:THR:HA	1.90	0.71
1:C:1104:GLN:OE1	1:F:1107:GLU:HB2	1.91	0.71
1:F:1443:LEU:CD2	1:F:1470:ARG:HB3	2.11	0.71
2:H:461:PRO:HA	2:H:484:GLU:O	1.90	0.71
2:H:779:GLY:O	2:H:780:SER:HB2	1.90	0.71
2:J:1370:LEU:HD12	2:J:1373:LEU:HD13	1.73	0.71
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.73	0.71
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.71	0.71
2:H:358:ARG:NH2	2:H:383:VAL:HG21	2.05	0.71
2:H:917:ARG:HG2	2:H:937:ARG:NH1	2.06	0.71
2:H:2037:GLY:HA2	2:H:2048:PHE:O	1.91	0.71
2:I:472:THR:H	2:I:493:MET:HE3	1.55	0.71
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.73	0.71
2:K:162:ALA:HA	2:K:167:VAL:HG22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1348:PHE:O	2:K:1351:VAL:HG12	1.89	0.71
2:L:1074:LYS:HE3	2:L:1075:TYR:HE1	1.55	0.71
2:L:1420:LYS:HG2	2:L:1425:PRO:HA	1.71	0.71
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.90	0.70
1:E:424:VAL:HG13	1:E:469:LEU:HD11	1.71	0.70
2:G:447:ALA:O	2:G:451:ILE:HG13	1.91	0.70
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.73	0.70
2:G:1232:VAL:HG12	2:G:1246:LEU:HD23	1.73	0.70
2:H:1706:MET:O	2:H:1709:TYR:HB3	1.91	0.70
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.73	0.70
2:L:489:GLU:HA	2:L:492:ARG:NH1	2.04	0.70
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.25	0.70
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.56	0.70
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.26	0.70
2:H:48:LEU:CD1	2:H:101:VAL:HG11	2.21	0.70
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.90	0.70
2:H:930:THR:HG23	2:H:933:GLU:H	1.55	0.70
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.73	0.70
2:J:48:LEU:CD1	2:J:101:VAL:HG11	2.21	0.70
2:K:358:ARG:HB2	2:K:389:PHE:CZ	2.26	0.70
2:K:1074:LYS:HE3	2:K:1075:TYR:HE1	1.56	0.70
2:L:610:PRO:CD	4:L:2101:FMN:H6	2.17	0.70
1:A:616:HIS:HA	1:A:633:THR:HG23	1.72	0.70
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.73	0.70
1:D:1342:ARG:HB2	1:D:1345:SER:HB2	1.74	0.70
1:E:1617:ILE:HD13	1:E:1617:ILE:N	2.06	0.70
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.56	0.70
2:I:289:ILE:HG23	2:I:490:LEU:HD22	1.73	0.70
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.73	0.70
2:I:1612:THR:O	2:I:1616:VAL:HG12	1.91	0.70
2:J:709:LEU:HD23	2:J:709:LEU:H	1.55	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.71	0.70
2:L:779:GLY:O	2:L:780:SER:HB2	1.89	0.70
1:A:541:VAL:O	1:A:545:LEU:HG	1.91	0.70
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.92	0.70
1:A:1342:ARG:HH12	1:A:1347:THR:HB	1.55	0.70
1:B:501:ASP:HB3	1:B:505:ASN:HB2	1.74	0.70
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.91	0.70
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.04	0.70
2:J:1803:THR:HA	2:J:1806:THR:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1617:ILE:HD13	1:B:1617:ILE:N	2.06	0.70
1:C:1617:ILE:HD13	1:C:1617:ILE:N	2.05	0.70
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.73	0.70
2:G:709:LEU:HD23	2:G:709:LEU:H	1.55	0.70
2:G:1074:LYS:HE3	2:G:1075:TYR:HE1	1.57	0.70
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.70
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.95	0.70
2:J:656:ARG:HG2	2:J:656:ARG:HH11	1.56	0.70
1:C:423:ARG:O	1:C:429:ILE:HD11	1.91	0.70
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.57	0.70
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.70
2:H:600:VAL:HG13	2:H:601:PRO:CD	2.22	0.70
2:I:448:HIS:CD2	2:I:491:VAL:HG12	2.23	0.70
2:L:638:ALA:HA	2:L:672:TRP:CZ3	2.27	0.70
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.21	0.70
1:B:1214:HIS:HD2	1:B:1216:SER:OG	1.75	0.70
1:C:567:ASN:HA	1:C:570:TYR:HB3	1.74	0.70
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.74	0.70
1:E:1068:TYR:O	1:E:1072:ILE:HG13	1.91	0.70
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.27	0.70
1:F:392:ASP:HB3	1:F:395:LYS:HD2	1.73	0.70
2:H:1888:PRO:HG3	2:H:1900:LEU:HD12	1.73	0.70
2:I:2036:ILE:HG22	2:I:2037:GLY:N	2.06	0.70
2:K:293:ALA:HA	2:K:469:VAL:HG21	1.74	0.70
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.92	0.70
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.26	0.70
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.25	0.70
1:B:1270:THR:HA	1:D:1386:THR:O	1.92	0.70
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.73	0.70
2:G:914:TRP:NE1	2:G:916:GLY:HA3	2.07	0.70
2:G:1084:LYS:O	2:G:1088:ASP:HB2	1.91	0.70
2:H:1867:MET:O	2:H:2003:VAL:HG21	1.92	0.70
2:I:524:ILE:HG22	2:I:528:THR:HG23	1.73	0.70
2:I:914:TRP:NE1	2:I:916:GLY:HA3	2.07	0.70
2:I:1985:GLN:O	2:I:1987:VAL:N	2.22	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.26	0.70
2:L:251:PRO:HG3	2:L:316:PHE:HA	1.72	0.70
1:C:964:LYS:O	1:C:966:PRO:HD3	1.91	0.70
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.44	0.70
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.21	0.70
2:G:917:ARG:HG2	2:G:937:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:718:PRO:HG2	2:H:727:VAL:HG21	1.72	0.70
2:I:1421:ARG:HD2	2:I:1426:VAL:HG21	1.74	0.70
2:J:336:LEU:O	2:J:340:VAL:HG23	1.92	0.70
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.04	0.70
2:J:638:ALA:HA	2:J:672:TRP:CZ3	2.27	0.70
2:J:1499:LYS:HG3	2:J:1500:ASN:H	1.57	0.70
1:A:424:VAL:HG13	1:A:469:LEU:HD11	1.72	0.70
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.73	0.70
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.22	0.70
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.57	0.70
2:H:284:GLY:H	2:H:289:ILE:HD12	1.57	0.70
2:I:158:LEU:HA	2:I:566:VAL:HG21	1.74	0.70
2:I:656:ARG:HG2	2:I:656:ARG:HH11	1.55	0.70
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.26	0.70
1:A:405:TRP:CZ3	1:A:1609:SER:HB3	2.27	0.69
1:C:1183:VAL:HG11	1:C:1187:THR:HG21	1.74	0.69
1:E:486:VAL:HG11	1:E:647:GLY:HA3	1.74	0.69
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.27	0.69
1:E:1342:ARG:HH12	1:E:1347:THR:HB	1.52	0.69
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.74	0.69
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.72	0.69
2:H:158:LEU:HD22	2:H:169:ILE:HD11	1.74	0.69
2:H:1770:ASN:HB2	2:H:1776:LYS:HE2	1.72	0.69
2:I:938:MET:HE1	2:I:959:THR:HA	1.74	0.69
2:I:1442:TYR:O	2:I:1445:THR:HG22	1.92	0.69
2:J:718:PRO:CG	2:J:727:VAL:HG21	2.21	0.69
2:J:930:THR:HG22	2:J:933:GLU:HG3	1.72	0.69
2:K:1084:LYS:O	2:K:1088:ASP:HB2	1.92	0.69
2:L:358:ARG:NH2	2:L:383:VAL:HG21	2.06	0.69
2:L:867:LYS:HD3	2:L:1065:CYS:SG	2.31	0.69
1:A:613:PRO:HG2	1:A:633:THR:HG21	1.73	0.69
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.73	0.69
1:C:1224:SER:HB2	1:C:1307:PHE:O	1.93	0.69
1:C:1703:VAL:HG11	1:C:1711:LEU:HB3	1.74	0.69
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.22	0.69
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.55	0.69
2:G:610:PRO:O	2:G:613:VAL:HG12	1.91	0.69
2:H:930:THR:HG22	2:H:933:GLU:CG	2.22	0.69
2:I:930:THR:HG23	2:I:933:GLU:H	1.56	0.69
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.27	0.69
2:I:1803:THR:HA	2:I:1806:THR:HB	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:461:PRO:HA	2:J:484:GLU:O	1.92	0.69
2:J:1468:ARG:HH12	2:J:1475:LEU:HB2	1.56	0.69
2:J:1985:GLN:C	2:J:1987:VAL:H	1.96	0.69
2:L:289:ILE:HG23	2:L:490:LEU:HD22	1.72	0.69
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.74	0.69
1:E:1079:ARG:HH11	1:E:1079:ARG:CG	2.04	0.69
2:H:663:ILE:H	2:H:663:ILE:HD12	1.57	0.69
2:H:1189:THR:O	2:H:1191:PRO:HD3	1.93	0.69
2:J:741:LEU:O	2:J:741:LEU:HG	1.92	0.69
2:J:1602:LEU:HG	2:J:1606:ILE:CD1	2.22	0.69
2:K:1795:SER:HB3	2:K:1799:LEU:HD12	1.75	0.69
2:L:917:ARG:HD3	2:L:937:ARG:NH2	2.07	0.69
1:A:542:GLN:HB3	1:A:579:MET:SD	2.33	0.69
1:D:330:LYS:HG3	1:D:333:ARG:NH1	2.07	0.69
2:G:336:LEU:O	2:G:340:VAL:HG23	1.93	0.69
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.74	0.69
2:H:1090:ILE:O	2:H:1094:HIS:HD2	1.75	0.69
2:H:2036:ILE:HG22	2:H:2037:GLY:N	2.07	0.69
2:I:718:PRO:HG2	2:I:727:VAL:HG21	1.74	0.69
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.75	0.69
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.26	0.69
2:J:718:PRO:HG2	2:J:727:VAL:HG21	1.73	0.69
2:K:336:LEU:O	2:K:340:VAL:HG23	1.91	0.69
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.26	0.69
2:L:289:ILE:HG12	2:L:493:MET:HE1	1.73	0.69
1:B:1470:ARG:O	1:B:1474:ILE:HG13	1.93	0.69
1:C:853:MET:HG2	1:C:856:ASN:HD22	1.57	0.69
1:C:959:PRO:HG2	2:I:974:GLU:HG3	1.75	0.69
1:C:1413:SER:HA	1:C:1499:ARG:HH22	1.58	0.69
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.41	0.69
1:D:1089:TYR:CE1	1:D:1312:GLU:HG3	2.28	0.69
1:D:1425:LEU:HD21	1:D:1429:ARG:HH21	1.57	0.69
1:E:617:LEU:HD23	1:E:617:LEU:N	2.07	0.69
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.74	0.69
2:K:1384:PRO:CB	2:K:1829:ARG:HH12	2.05	0.69
2:K:1770:ASN:HB2	2:K:1776:LYS:HE2	1.74	0.69
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.22	0.69
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.92	0.69
2:L:857:VAL:CG1	2:L:876:TRP:NE1	2.54	0.69
2:L:1468:ARG:HH12	2:L:1475:LEU:HB2	1.56	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.04	0.69
1:B:1267:LEU:HD11	1:B:1303:LEU:HD12	1.75	0.69
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.74	0.69
1:F:501:ASP:HB3	1:F:505:ASN:HB2	1.75	0.69
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.69
2:G:779:GLY:O	2:G:780:SER:HB2	1.91	0.69
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.72	0.69
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.06	0.69
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.73	0.69
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	2.07	0.69
2:L:207:LEU:O	2:L:211:LEU:HG	1.92	0.69
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.06	0.69
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.07	0.69
2:G:747:ARG:HH11	2:G:780:SER:HB3	1.56	0.69
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.58	0.69
2:H:358:ARG:HB2	2:H:389:PHE:CZ	2.28	0.69
2:H:489:GLU:HA	2:H:492:ARG:NH1	2.07	0.69
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.73	0.69
2:H:1891:ILE:HD11	2:H:1943:LEU:HB3	1.73	0.69
2:I:117:ASN:HA	2:I:561:ARG:HG3	1.74	0.69
2:K:207:LEU:O	2:K:211:LEU:HG	1.92	0.69
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.22	0.69
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.22	0.69
2:L:1084:LYS:O	2:L:1088:ASP:HB2	1.93	0.69
2:L:1985:GLN:O	2:L:1987:VAL:N	2.22	0.69
2:L:2037:GLY:HA2	2:L:2048:PHE:O	1.91	0.69
1:A:1279:ALA:O	1:A:1282:THR:HG23	1.92	0.69
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.75	0.69
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.75	0.69
1:C:553:ARG:HH22	1:C:563:GLN:HB3	1.56	0.69
1:C:767:HIS:CE1	1:D:767:HIS:CE1	2.80	0.69
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	1.75	0.69
1:E:859:VAL:HG12	1:E:863:VAL:HG23	1.73	0.69
1:E:1672:GLY:HA3	1:E:1678:LEU:CD2	2.21	0.69
1:F:859:VAL:HG12	1:F:863:VAL:HG23	1.75	0.69
2:G:48:LEU:CD1	2:G:101:VAL:HG11	2.23	0.69
2:G:2037:GLY:HA2	2:G:2048:PHE:O	1.93	0.69
2:H:207:LEU:O	2:H:211:LEU:HG	1.93	0.69
2:H:741:LEU:O	2:H:741:LEU:HG	1.91	0.69
2:H:1007:LEU:HD12	2:H:1007:LEU:N	2.07	0.69
2:I:595:SER:HB3	2:I:602:PRO:CG	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:917:ARG:HD3	2:I:937:ARG:NH2	2.08	0.69
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.07	0.69
2:J:610:PRO:CD	4:J:2101:FMN:H6	2.17	0.69
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.07	0.69
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.75	0.69
2:J:1405:ILE:HA	2:J:1445:THR:OG1	1.92	0.69
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.28	0.69
2:K:950:TRP:CD1	2:K:956:LYS:HD3	2.28	0.69
2:K:1384:PRO:HB3	2:K:1829:ARG:NH1	2.08	0.69
2:K:1976:CYS:O	2:K:1980:THR:HG23	1.93	0.69
2:L:306:THR:O	2:L:310:ARG:HG3	1.93	0.69
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.58	0.69
2:L:1120:ILE:HD12	2:L:1167:ASN:O	1.93	0.69
1:A:1617:ILE:HD13	1:A:1617:ILE:N	2.08	0.69
1:F:423:ARG:O	1:F:429:ILE:HD11	1.93	0.69
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.75	0.69
2:G:1468:ARG:HH12	2:G:1475:LEU:HB2	1.56	0.69
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.08	0.69
2:H:506:VAL:O	2:H:506:VAL:HG12	1.92	0.69
2:H:1084:LYS:O	2:H:1088:ASP:HB2	1.93	0.69
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.74	0.69
2:K:489:GLU:HA	2:K:492:ARG:NH1	2.08	0.69
2:K:506:VAL:O	2:K:506:VAL:HG12	1.93	0.69
2:K:1421:ARG:HD2	2:K:1426:VAL:HG21	1.74	0.69
2:L:718:PRO:CG	2:L:727:VAL:HG21	2.23	0.69
1:A:470:GLY:O	1:A:474:ILE:HG13	1.92	0.69
1:A:539:THR:O	1:A:542:GLN:HG2	1.93	0.69
1:A:1480:ARG:O	1:A:1484:GLU:HG3	1.93	0.69
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.75	0.69
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.74	0.69
1:C:60:THR:HG23	2:I:1922:VAL:HG13	1.75	0.69
1:C:408:GLN:HG2	1:C:1610:ARG:HH12	1.58	0.69
1:D:42:GLU:OE1	2:J:1688:PRO:HB3	1.93	0.69
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.74	0.69
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.73	0.69
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.74	0.69
2:H:917:ARG:HD3	2:H:937:ARG:NH2	2.08	0.69
2:I:571:ASP:HB3	2:I:574:LYS:HB2	1.73	0.69
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.75	0.69
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.23	0.69
2:K:329:THR:HA	2:L:1331:THR:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:914:TRP:NE1	2:L:916:GLY:HA3	2.08	0.69
1:A:632:LEU:HA	1:A:635:ILE:HG22	1.76	0.68
1:A:729:ILE:HA	1:A:736:LEU:HD21	1.74	0.68
1:A:1032:MET:CE	1:A:1165:PRO:HB3	2.22	0.68
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.75	0.68
1:D:405:TRP:CZ3	1:D:1609:SER:HB3	2.27	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.05	0.68
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.28	0.68
2:G:917:ARG:HD3	2:G:937:ARG:NH2	2.08	0.68
2:G:1421:ARG:HD2	2:G:1426:VAL:HG21	1.75	0.68
2:H:465:LEU:HD11	2:H:486:ILE:HD11	1.74	0.68
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.76	0.68
2:J:608:MET:H	2:J:612:THR:HB	1.57	0.68
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.75	0.68
2:K:306:THR:O	2:K:310:ARG:HG3	1.93	0.68
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.29	0.68
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.23	0.68
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.23	0.68
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.05	0.68
1:F:330:LYS:HG3	1:F:333:ARG:NH1	2.08	0.68
2:G:674:ILE:HD13	2:G:705:TYR:CE2	2.28	0.68
2:G:1375:HIS:HE1	2:G:1610:MET:SD	2.17	0.68
2:G:1383:VAL:HG23	2:G:1428:TYR:HE1	1.58	0.68
2:H:914:TRP:NE1	2:H:916:GLY:HA3	2.07	0.68
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.28	0.68
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.58	0.68
2:I:674:ILE:HD13	2:I:705:TYR:CE2	2.28	0.68
2:J:129:ILE:HD13	2:J:132:LYS:HE3	1.75	0.68
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.23	0.68
2:L:786:GLU:H	2:L:786:GLU:CD	1.96	0.68
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.27	0.68
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.11	0.68
1:A:1490:GLY:O	1:A:1509:THR:HB	1.93	0.68
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.29	0.68
1:C:330:LYS:HG3	1:C:333:ARG:NH1	2.08	0.68
1:C:633:THR:HG22	1:C:637:LEU:HD12	1.74	0.68
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.74	0.68
1:D:859:VAL:HG12	1:D:863:VAL:HG23	1.75	0.68
1:F:1052:ASP:OD2	1:F:1055:THR:HG22	1.94	0.68
1:F:1704:THR:HG23	1:F:1714:PRO:HG3	1.76	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1985:GLN:C	2:G:1987:VAL:H	1.96	0.68
2:H:1985:GLN:C	2:H:1987:VAL:H	1.97	0.68
2:I:1348:PHE:O	2:I:1351:VAL:HG12	1.93	0.68
2:K:290:VAL:HG22	2:K:490:LEU:HD13	1.76	0.68
2:L:718:PRO:HG2	2:L:727:VAL:HG21	1.74	0.68
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.74	0.68
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.58	0.68
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.76	0.68
1:F:1541:GLN:HE22	1:F:1633:GLN:HE22	1.40	0.68
2:H:289:ILE:HG12	2:H:493:MET:HE1	1.75	0.68
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.74	0.68
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.59	0.68
2:J:1084:LYS:O	2:J:1088:ASP:HB2	1.93	0.68
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.29	0.68
2:K:48:LEU:CD1	2:K:101:VAL:HG11	2.22	0.68
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.58	0.68
2:K:584:SER:HB3	2:K:1114:GLU:O	1.93	0.68
1:A:1476:ARG:HH12	1:E:1499:ARG:CD	2.05	0.68
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.24	0.68
1:B:956:ILE:HA	2:H:977:PRO:HA	1.75	0.68
1:D:580:ASN:OD1	1:D:583:GLN:HB2	1.92	0.68
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.76	0.68
2:G:117:ASN:HA	2:G:561:ARG:HG3	1.76	0.68
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.93	0.68
2:J:289:ILE:HG23	2:J:490:LEU:HD22	1.75	0.68
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.08	0.68
2:K:44:GLN:HG3	2:K:101:VAL:HG21	1.73	0.68
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.28	0.68
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.74	0.68
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.55	0.68
1:D:430:VAL:HG11	1:D:490:VAL:HG11	1.75	0.68
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.29	0.68
2:G:448:HIS:CD2	2:G:491:VAL:HG12	2.26	0.68
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.28	0.68
2:H:1370:LEU:HD12	2:H:1373:LEU:HD13	1.76	0.68
2:H:1871:VAL:HB	2:H:2003:VAL:HG22	1.75	0.68
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.74	0.68
2:J:506:VAL:O	2:J:506:VAL:HG12	1.93	0.68
2:J:1180:VAL:HG12	2:J:1188:GLN:H	1.59	0.68
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.08	0.68
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1455:GLN:HB2	2:K:1551:ILE:HD11	1.73	0.68
2:L:1026:LYS:HG3	3:L:2102:NAP:N7A	2.09	0.68
2:L:1871:VAL:HB	2:L:2003:VAL:HG22	1.74	0.68
1:E:408:GLN:HG2	1:E:1610:ARG:HH12	1.59	0.68
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.75	0.68
2:H:43:PHE:CE2	2:I:22:ARG:HB3	2.28	0.68
2:H:718:PRO:CG	2:H:727:VAL:HG21	2.23	0.68
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.56	0.68
2:I:930:THR:HG22	2:I:933:GLU:CG	2.24	0.68
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.59	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.28	0.68
1:A:983:GLN:HB3	1:A:1418:ILE:HG21	1.76	0.68
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	2.04	0.68
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.75	0.68
1:C:1102:ILE:HG22	1:C:1104:GLN:HG2	1.75	0.68
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.28	0.68
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.94	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:J:265:CYS:SG	2:J:275:LEU:HD12	2.34	0.68
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.22	0.68
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.94	0.68
2:L:699:ILE:H	2:L:699:ILE:HD12	1.58	0.68
2:L:1370:LEU:HD12	2:L:1373:LEU:HD13	1.75	0.68
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.76	0.68
2:G:930:THR:HG23	2:G:933:GLU:H	1.57	0.68
2:H:306:THR:O	2:H:310:ARG:HG3	1.94	0.68
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	1.94	0.68
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.54	0.68
2:I:1890:ARG:HH22	2:I:1996:ILE:CD1	2.07	0.68
2:K:930:THR:HG22	2:K:933:GLU:CG	2.24	0.68
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.59	0.68
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.75	0.68
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.90	0.68
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.76	0.68
1:B:767:HIS:HE1	1:E:767:HIS:CE1	2.12	0.68
1:E:928:ILE:HG12	2:K:1462:GLN:HA	1.76	0.68
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.29	0.68
1:F:1702:ARG:CG	1:F:1702:ARG:NH1	2.45	0.68
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.76	0.68
2:G:718:PRO:CG	2:G:727:VAL:HG21	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.75	0.68
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.76	0.68
2:K:1350:ILE:O	2:K:1354:TRP:HB2	1.93	0.68
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.59	0.67
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.75	0.67
1:D:582:SER:O	1:D:586:GLN:HB2	1.94	0.67
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.76	0.67
1:F:1617:ILE:HD13	1:F:1617:ILE:N	2.09	0.67
2:G:1099:LEU:HD21	2:G:1107:GLU:HG2	1.76	0.67
2:H:656:ARG:HG2	2:H:656:ARG:HH11	1.59	0.67
2:J:306:THR:O	2:J:310:ARG:HG3	1.94	0.67
2:J:358:ARG:NH2	2:J:383:VAL:HG21	2.08	0.67
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.76	0.67
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.59	0.67
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.06	0.67
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.29	0.67
1:D:853:MET:HG2	1:D:856:ASN:HD22	1.58	0.67
1:E:541:VAL:O	1:E:545:LEU:HG	1.94	0.67
2:H:20:SER:O	2:H:38:PRO:HA	1.94	0.67
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.75	0.67
2:I:786:GLU:H	2:I:786:GLU:CD	1.98	0.67
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.08	0.67
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.75	0.67
2:I:1976:CYS:O	2:I:1980:THR:HG23	1.94	0.67
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.74	0.67
2:J:1383:VAL:HG23	2:J:1428:TYR:HE1	1.59	0.67
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.28	0.67
2:K:827:GLN:NE2	2:K:827:GLN:H	1.92	0.67
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.76	0.67
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.59	0.67
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.29	0.67
1:B:1413:SER:HA	1:B:1499:ARG:HH22	1.59	0.67
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.75	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.29	0.67
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.76	0.67
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.30	0.67
2:I:1454:MET:CE	2:I:1550:SER:HA	2.24	0.67
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.59	0.67
2:J:465:LEU:HD11	2:J:486:ILE:HD11	1.76	0.67
2:J:756:ASP:HA	2:J:843:TRP:CH2	2.30	0.67
2:K:129:ILE:HD13	2:K:132:LYS:HE3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:38:PRO:HD2	2:L:104:LEU:HD11	1.76	0.67
2:L:1099:LEU:HD21	2:L:1107:GLU:HG2	1.76	0.67
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.75	0.67
1:B:1480:ARG:O	1:B:1484:GLU:HG3	1.94	0.67
1:C:1052:ASP:OD2	1:C:1055:THR:HG22	1.94	0.67
1:D:683:THR:HB	1:D:714:PHE:HB3	1.77	0.67
1:D:1224:SER:HB2	1:D:1307:PHE:O	1.94	0.67
1:E:501:ASP:HB3	1:E:505:ASN:HB2	1.76	0.67
1:E:1336:GLU:O	1:E:1340:MET:HG2	1.95	0.67
2:G:158:LEU:HA	2:G:566:VAL:HG21	1.76	0.67
2:G:1721:ARG:NH2	2:G:1853:ILE:HD12	2.10	0.67
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.76	0.67
2:K:875:PHE:CD1	2:K:905:LYS:HD3	2.30	0.67
2:K:930:THR:HG23	2:K:933:GLU:H	1.60	0.67
2:L:854:VAL:HG21	2:L:1070:PRO:CA	2.25	0.67
1:D:1102:ILE:HG22	1:D:1104:GLN:HG2	1.75	0.67
2:G:461:PRO:HA	2:G:484:GLU:O	1.94	0.67
2:G:930:THR:HG22	2:G:933:GLU:CG	2.24	0.67
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.29	0.67
2:G:1976:CYS:O	2:G:1980:THR:HG23	1.95	0.67
2:H:376:ARG:HH22	2:I:1340:LYS:HE3	1.58	0.67
2:H:638:ALA:HA	2:H:672:TRP:CZ3	2.29	0.67
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.59	0.67
2:I:605:VAL:HG22	2:I:816:MET:HG3	1.75	0.67
2:J:1231:THR:HG22	2:J:1232:VAL:HG13	1.76	0.67
2:J:1331:THR:HG22	2:L:329:THR:HA	1.77	0.67
2:J:1348:PHE:O	2:J:1351:VAL:HG12	1.95	0.67
2:K:465:LEU:HD11	2:K:486:ILE:HD11	1.76	0.67
2:L:1383:VAL:HG23	2:L:1428:TYR:HE1	1.59	0.67
2:L:1421:ARG:HD2	2:L:1426:VAL:HG21	1.76	0.67
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.75	0.67
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.76	0.67
1:C:1413:SER:HA	1:C:1499:ARG:NH2	2.09	0.67
1:D:1541:GLN:HE22	1:D:1633:GLN:HE22	1.43	0.67
1:E:729:ILE:HA	1:E:736:LEU:HD21	1.76	0.67
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.29	0.67
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.24	0.67
2:I:1181:PHE:O	2:I:1188:GLN:HB3	1.95	0.67
2:J:396:ILE:H	2:J:396:ILE:HD12	1.59	0.67
2:J:1171:TRP:CD1	2:J:1171:TRP:C	2.68	0.67
2:K:1891:ILE:HD11	2:K:1943:LEU:HB3	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.29	0.67
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.30	0.67
2:L:1348:PHE:O	2:L:1351:VAL:HG12	1.95	0.67
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.60	0.67
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.75	0.67
1:B:433:CYS:O	1:B:437:MET:HG3	1.95	0.67
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.42	0.67
1:E:22:PHE:HE1	2:K:1867:MET:HG3	1.60	0.67
1:F:408:GLN:HG2	1:F:1610:ARG:HH12	1.60	0.67
1:F:427:ARG:HH11	1:F:492:ILE:HG12	1.59	0.67
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.60	0.67
2:G:284:GLY:H	2:G:289:ILE:HD12	1.58	0.67
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.60	0.67
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.77	0.67
2:H:796:TRP:CH2	2:H:805:MET:HE1	2.30	0.67
2:H:1026:LYS:HG3	3:H:2102:NAP:N7A	2.09	0.67
2:I:265:CYS:SG	2:I:275:LEU:HD12	2.35	0.67
2:I:917:ARG:HG2	2:I:937:ARG:NH1	2.10	0.67
2:I:1867:MET:O	2:I:2003:VAL:HG21	1.94	0.67
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.09	0.67
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.30	0.67
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	1.95	0.67
2:K:1985:GLN:C	2:K:1987:VAL:H	1.97	0.67
2:L:365:ILE:HG23	2:L:378:ILE:HG22	1.77	0.67
1:A:442:PRO:HD2	1:A:443:LEU:HD12	1.76	0.67
1:C:427:ARG:HG3	1:C:427:ARG:NH1	2.07	0.67
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.76	0.67
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.76	0.67
1:E:947:ASP:O	1:E:951:LEU:HG	1.95	0.67
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.20	0.67
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.60	0.67
1:F:1470:ARG:O	1:F:1474:ILE:HG13	1.94	0.67
2:G:329:THR:HA	2:H:1331:THR:HG22	1.76	0.67
2:G:489:GLU:HA	2:G:492:ARG:NH1	2.10	0.67
2:G:656:ARG:HG2	2:G:656:ARG:HH11	1.59	0.67
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.60	0.67
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.18	0.67
2:H:1976:CYS:O	2:H:1980:THR:HG23	1.95	0.67
2:I:220:GLN:C	2:I:222:PRO:HD3	2.15	0.67
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.30	0.67
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.59	0.67
2:J:2036:ILE:HG22	2:J:2037:GLY:N	2.08	0.67
2:K:367:ALA:O	2:K:370:GLN:HB3	1.94	0.67
2:K:918:ASN:HB3	2:K:924:VAL:HG21	1.77	0.67
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.60	0.67
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.77	0.67
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.77	0.67
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.25	0.67
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.29	0.67
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.77	0.67
1:E:1207:TYR:CZ	1:E:1682:LYS:HD2	2.30	0.67
2:G:663:ILE:H	2:G:663:ILE:HD12	1.60	0.67
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.29	0.67
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.67
2:K:447:ALA:O	2:K:451:ILE:HG13	1.94	0.67
2:K:926:LEU:O	2:K:1008:ILE:HD11	1.94	0.67
2:K:1468:ARG:NH1	2:K:1475:LEU:HB2	2.09	0.67
2:L:1171:TRP:C	2:L:1171:TRP:CD1	2.68	0.67
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.76	0.67
1:C:501:ASP:HB3	1:C:505:ASN:HB2	1.77	0.67
1:C:683:THR:HB	1:C:714:PHE:HB3	1.76	0.67
1:C:1541:GLN:HE22	1:C:1633:GLN:HE22	1.41	0.67
1:C:1686:PRO:HB2	1:C:1713:PHE:CD1	2.30	0.67
1:D:501:ASP:HB3	1:D:505:ASN:HB2	1.77	0.67
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.75	0.67
1:E:1413:SER:HA	1:E:1499:ARG:HH22	1.60	0.67
2:H:265:CYS:SG	2:H:275:LEU:HD12	2.34	0.67
2:H:1455:GLN:HB2	2:H:1551:ILE:HD11	1.76	0.67
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.75	0.67
2:I:465:LEU:HD11	2:I:486:ILE:HD11	1.75	0.67
2:J:358:ARG:HB2	2:J:389:PHE:CZ	2.29	0.67
2:K:524:ILE:HG22	2:K:528:THR:HG23	1.77	0.67
2:L:611:THR:HG21	2:L:817:MET:HE2	1.76	0.67
1:A:1672:GLY:HA3	1:A:1678:LEU:CD2	2.22	0.66
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	1.76	0.66
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.77	0.66
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.55	0.66
2:G:524:ILE:HG22	2:G:528:THR:HG23	1.77	0.66
2:G:718:PRO:HG2	2:G:727:VAL:HG21	1.77	0.66
2:G:926:LEU:O	2:G:1008:ILE:HD11	1.95	0.66
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1232:VAL:HG12	2:H:1246:LEU:HD23	1.75	0.66
2:I:950:TRP:CD1	2:I:956:LYS:HD3	2.30	0.66
2:I:1468:ARG:NH1	2:I:1475:LEU:HB2	2.09	0.66
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	1.95	0.66
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.76	0.66
2:K:768:ILE:O	2:K:774:ILE:HD12	1.95	0.66
2:K:1383:VAL:HG23	2:K:1428:TYR:HE1	1.59	0.66
2:L:270:ARG:HG3	2:L:274:GLU:OE1	1.95	0.66
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.76	0.66
2:L:942:MET:CE	2:L:955:LEU:HB3	2.25	0.66
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.95	0.66
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.76	0.66
1:A:1270:THR:HA	1:E:1386:THR:O	1.94	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
1:C:12:THR:O	1:C:16:GLU:HG2	1.95	0.66
1:C:859:VAL:HG12	1:C:863:VAL:HG23	1.75	0.66
2:G:162:ALA:HA	2:G:167:VAL:HG22	1.77	0.66
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.76	0.66
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.77	0.66
2:I:207:LEU:O	2:I:211:LEU:HG	1.95	0.66
2:I:1985:GLN:C	2:I:1987:VAL:H	1.98	0.66
2:J:110:GLU:HA	2:J:114:MET:HB2	1.76	0.66
2:J:524:ILE:HG22	2:J:528:THR:HG23	1.78	0.66
2:K:1290:TYR:CD2	2:K:1299:VAL:HB	2.30	0.66
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.77	0.66
1:A:1413:SER:HA	1:A:1499:ARG:HH22	1.60	0.66
1:B:859:VAL:HG12	1:B:863:VAL:HG23	1.77	0.66
1:D:756:ILE:HA	1:D:759:ILE:HD11	1.78	0.66
1:F:575:ARG:O	1:F:579:MET:HG3	1.95	0.66
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.43	0.66
1:F:1504:ARG:CG	1:F:1504:ARG:NH1	2.45	0.66
2:G:465:LEU:HD11	2:G:486:ILE:HD11	1.75	0.66
2:G:1455:GLN:HB2	2:G:1551:ILE:HD11	1.78	0.66
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.76	0.66
2:H:1348:PHE:O	2:H:1351:VAL:HG12	1.94	0.66
2:K:868:LEU:O	2:K:870:THR:HG23	1.95	0.66
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.77	0.66
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.30	0.66
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.78	0.66
1:B:575:ARG:O	1:B:579:MET:HG3	1.95	0.66
1:F:506:ILE:HD11	1:F:926:SER:HB3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.77	0.66
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.96	0.66
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.75	0.66
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.59	0.66
2:H:1421:ARG:HD2	2:H:1426:VAL:HG21	1.77	0.66
2:H:1454:MET:CE	2:H:1550:SER:HA	2.25	0.66
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.11	0.66
2:J:1331:THR:O	2:L:329:THR:HG22	1.95	0.66
2:K:1026:LYS:HG3	3:K:2102:NAP:N7A	2.10	0.66
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.78	0.66
2:L:48:LEU:CD1	2:L:101:VAL:HG11	2.25	0.66
2:L:1976:CYS:O	2:L:1980:THR:HG23	1.94	0.66
1:A:408:GLN:HG2	1:A:1610:ARG:NH1	2.10	0.66
1:A:1307:PHE:HB3	1:A:1357:CYS:CB	2.26	0.66
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.76	0.66
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.76	0.66
2:G:1046:SER:O	2:G:1049:GLN:HG3	1.96	0.66
2:H:1701:GLU:H	2:H:1704:MET:HE3	1.60	0.66
2:I:270:ARG:HG3	2:I:274:GLU:OE1	1.95	0.66
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.77	0.66
2:K:117:ASN:OD1	2:K:561:ARG:HB2	1.95	0.66
2:K:420:PRO:HG3	2:K:847:TYR:CD1	2.29	0.66
2:L:44:GLN:HG3	2:L:101:VAL:HG21	1.78	0.66
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.77	0.66
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.77	0.66
1:D:978:LYS:HB3	1:D:979:PRO:HD3	1.77	0.66
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.24	0.66
1:E:533:SER:O	1:E:611:THR:HA	1.95	0.66
1:F:433:CYS:O	1:F:437:MET:HG3	1.95	0.66
2:G:306:THR:O	2:G:310:ARG:HG3	1.95	0.66
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.59	0.66
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.76	0.66
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.75	0.66
2:K:663:ILE:H	2:K:663:ILE:HD12	1.59	0.66
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.29	0.66
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.77	0.66
2:L:656:ARG:HG2	2:L:656:ARG:HH11	1.60	0.66
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.75	0.66
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.44	0.66
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.31	0.66
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1490:GLY:O	1:C:1509:THR:HB	1.96	0.66
1:D:1617:ILE:HD13	1:D:1617:ILE:N	2.10	0.66
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.30	0.66
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.31	0.66
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.31	0.66
2:G:1420:LYS:HG2	2:G:1425:PRO:HA	1.76	0.66
2:H:472:THR:H	2:H:493:MET:HE3	1.61	0.66
2:H:610:PRO:CD	4:H:2101:FMN:H6	2.21	0.66
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.61	0.66
2:I:779:GLY:O	2:I:780:SER:CB	2.43	0.66
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.76	0.66
2:J:950:TRP:CD1	2:J:956:LYS:HD3	2.30	0.66
2:K:220:GLN:C	2:K:222:PRO:HD3	2.16	0.66
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.95	0.66
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	1.96	0.66
2:L:1985:GLN:C	2:L:1987:VAL:H	1.98	0.66
1:A:330:LYS:HG3	1:A:333:ARG:NH1	2.11	0.66
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.05	0.66
1:B:1541:GLN:HE22	1:B:1633:GLN:HE22	1.41	0.66
1:C:405:TRP:CZ3	1:C:1609:SER:HB3	2.31	0.66
1:D:1413:SER:HA	1:D:1499:ARG:HH22	1.61	0.66
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.58	0.66
2:G:964:ARG:O	2:G:967:GLU:HB2	1.96	0.66
2:G:1171:TRP:CD1	2:G:1171:TRP:C	2.68	0.66
2:G:1340:LYS:HG3	2:I:376:ARG:NH2	2.11	0.66
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.78	0.66
2:H:950:TRP:CD1	2:H:956:LYS:HD3	2.31	0.66
2:H:1701:GLU:H	2:H:1704:MET:CE	2.09	0.66
2:I:48:LEU:CD1	2:I:101:VAL:HG11	2.26	0.66
2:I:358:ARG:HH21	2:I:383:VAL:HG21	1.60	0.66
2:J:930:THR:HG23	2:J:933:GLU:H	1.61	0.66
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.66
2:K:743:TRP:HZ2	2:K:757:PHE:HA	1.61	0.66
2:L:358:ARG:HB2	2:L:389:PHE:CZ	2.31	0.66
2:L:670:MET:HA	2:L:673:GLN:HB2	1.78	0.66
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.31	0.66
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	1.96	0.66
1:D:746:PHE:CE1	1:D:800:PRO:HG3	2.31	0.66
1:E:1490:GLY:O	1:E:1509:THR:HB	1.96	0.66
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.31	0.66
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:942:MET:CE	2:G:955:LEU:HB3	2.26	0.66
2:G:1048:TRP:HE1	2:G:1049:GLN:HE21	1.44	0.66
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.61	0.66
2:G:1891:ILE:HD11	2:G:1943:LEU:HB3	1.76	0.66
2:H:894:GLU:O	2:H:897:LYS:HG2	1.96	0.66
2:I:367:ALA:O	2:I:370:GLN:HB3	1.96	0.66
2:J:549:ASN:ND2	2:J:551:GLU:H	1.93	0.66
2:K:57:PRO:HG2	2:K:68:GLU:HG3	1.77	0.66
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.36	0.66
2:K:1181:PHE:O	2:K:1188:GLN:HB3	1.96	0.66
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.31	0.66
2:L:1579:ASN:O	2:L:1583:VAL:HG23	1.96	0.66
2:L:2036:ILE:HG22	2:L:2037:GLY:H	1.61	0.66
1:A:430:VAL:HG11	1:A:490:VAL:HG11	1.76	0.66
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.78	0.66
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.31	0.66
1:C:978:LYS:HB3	1:C:979:PRO:HD3	1.77	0.66
1:C:1386:THR:O	1:F:1270:THR:HA	1.96	0.66
1:E:616:HIS:HA	1:E:633:THR:HG23	1.76	0.66
1:E:632:LEU:HA	1:E:635:ILE:CG2	2.25	0.66
1:E:926:SER:O	1:E:930:GLN:HG2	1.96	0.66
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.77	0.66
2:H:129:ILE:HD13	2:H:132:LYS:HE3	1.77	0.66
2:H:289:ILE:HG23	2:H:490:LEU:HD22	1.78	0.66
2:H:623:ASN:OD1	2:H:653:PRO:HD3	1.96	0.66
2:H:756:ASP:HA	2:H:843:TRP:CH2	2.31	0.66
2:H:1048:TRP:HE1	2:H:1049:GLN:HE21	1.44	0.66
2:J:549:ASN:HD22	2:J:551:GLU:H	1.44	0.66
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.60	0.66
2:L:584:SER:HB3	2:L:1114:GLU:O	1.96	0.66
2:L:894:GLU:O	2:L:897:LYS:HG2	1.94	0.66
2:L:964:ARG:O	2:L:967:GLU:HB2	1.96	0.66
1:A:501:ASP:HB3	1:A:505:ASN:HB2	1.78	0.65
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.77	0.65
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.78	0.65
1:B:427:ARG:HG3	1:B:427:ARG:NH1	2.03	0.65
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.30	0.65
1:B:1413:SER:HA	1:B:1499:ARG:NH2	2.11	0.65
1:C:442:PRO:HD2	1:C:443:LEU:HD12	1.77	0.65
1:C:684:THR:HG21	1:C:691:VAL:HG11	1.77	0.65
1:D:1413:SER:HA	1:D:1499:ARG:NH2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1581:LEU:HD23	1:F:1617:ILE:HG12	1.78	0.65
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	1.96	0.65
2:H:220:GLN:C	2:H:222:PRO:HD3	2.16	0.65
2:H:1171:TRP:CD1	2:H:1171:TRP:C	2.69	0.65
2:H:1468:ARG:NH1	2:H:1475:LEU:HB2	2.10	0.65
2:I:610:PRO:CD	4:I:2101:FMN:H6	2.20	0.65
2:J:930:THR:HG22	2:J:933:GLU:CG	2.25	0.65
2:K:284:GLY:H	2:K:289:ILE:HD12	1.59	0.65
2:K:674:ILE:HD13	2:K:705:TYR:CE2	2.31	0.65
2:K:1851:MET:HE2	2:K:1855:SER:HB3	1.78	0.65
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.11	0.65
1:C:1476:ARG:HH12	1:F:1499:ARG:CD	2.07	0.65
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.26	0.65
1:E:442:PRO:HD2	1:E:443:LEU:HD12	1.77	0.65
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.47	0.65
1:E:1674:ILE:HD12	2:K:1010:ALA:HB3	1.78	0.65
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.78	0.65
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.61	0.65
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.26	0.65
2:I:38:PRO:HD2	2:I:104:LEU:HD11	1.77	0.65
2:I:110:GLU:HA	2:I:114:MET:HB2	1.79	0.65
2:I:172:ILE:HD11	2:I:501:TRP:HZ2	1.61	0.65
2:I:718:PRO:CG	2:I:727:VAL:HG21	2.26	0.65
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.27	0.65
2:J:1181:PHE:O	2:J:1188:GLN:HB3	1.95	0.65
2:J:1290:TYR:CD2	2:J:1299:VAL:HB	2.30	0.65
2:J:1612:THR:O	2:J:1616:VAL:HG12	1.97	0.65
2:K:172:ILE:HD11	2:K:501:TRP:HZ2	1.60	0.65
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.78	0.65
1:A:1336:GLU:O	1:A:1340:MET:HG2	1.96	0.65
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.79	0.65
1:D:962:ASN:HD22	2:J:1006:GLN:HE22	1.43	0.65
1:E:421:ARG:HH22	1:E:1613:LYS:HB3	1.61	0.65
2:H:117:ASN:OD1	2:H:561:ARG:HB2	1.97	0.65
2:H:882:LYS:HB3	2:H:898:ARG:HH12	1.61	0.65
2:I:306:THR:O	2:I:310:ARG:HG3	1.96	0.65
2:J:670:MET:HA	2:J:673:GLN:HB2	1.77	0.65
2:K:270:ARG:HG3	2:K:274:GLU:OE1	1.95	0.65
2:K:289:ILE:HG12	2:K:493:MET:CE	2.25	0.65
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.59	0.65
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.27	0.65
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.60	0.65
1:A:1413:SER:HA	1:A:1499:ARG:NH2	2.11	0.65
1:A:1702:ARG:HG3	1:A:1702:ARG:NH1	2.09	0.65
1:C:22:PHE:HE1	2:I:1867:MET:HG3	1.61	0.65
1:C:620:LYS:HA	1:C:625:ASN:O	1.97	0.65
1:C:777:LEU:O	1:C:781:ILE:HG13	1.96	0.65
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.30	0.65
1:C:1342:ARG:HB2	1:C:1345:SER:HB2	1.78	0.65
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.76	0.65
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.32	0.65
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.32	0.65
1:E:1102:ILE:HG22	1:E:1104:GLN:HG2	1.77	0.65
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.61	0.65
2:G:549:ASN:HD22	2:G:550:THR:N	1.95	0.65
2:I:549:ASN:HD22	2:I:551:GLU:H	1.44	0.65
2:I:1220:ARG:HA	2:I:1229:VAL:O	1.96	0.65
2:I:1455:GLN:HB2	2:I:1551:ILE:HD11	1.77	0.65
2:J:1722:ALA:CB	2:J:1812:LEU:HD21	2.26	0.65
2:K:917:ARG:HG2	2:K:937:ARG:NH1	2.10	0.65
2:K:1067:LEU:HB2	4:K:2101:FMN:C7M	2.27	0.65
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.60	0.65
1:B:538:ARG:HA	1:B:585:MET:HE1	1.77	0.65
1:B:1342:ARG:HB2	1:B:1345:SER:HB2	1.78	0.65
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	1.96	0.65
1:C:1363:MET:HE3	1:C:1368:ALA:HB2	1.79	0.65
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.32	0.65
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.77	0.65
2:H:365:ILE:HG23	2:H:378:ILE:HG22	1.78	0.65
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.62	0.65
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.79	0.65
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.62	0.65
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.79	0.65
2:K:20:SER:O	2:K:38:PRO:HA	1.96	0.65
2:K:810:CYS:HG	2:K:812:PHE:HE1	1.44	0.65
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.11	0.65
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.60	0.65
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.65
1:C:965:TYR:OH	1:C:1199:LEU:HD22	1.96	0.65
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.08	0.65
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:989:ASN:H	1:E:1491:ASN:ND2	1.91	0.65
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.61	0.65
1:E:1470:ARG:O	1:E:1474:ILE:HG13	1.97	0.65
1:F:612:ILE:CD1	1:F:907:PHE:HZ	2.10	0.65
2:G:358:ARG:HB2	2:G:389:PHE:CZ	2.31	0.65
2:G:365:ILE:HG23	2:G:378:ILE:HG22	1.79	0.65
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.26	0.65
2:G:613:VAL:HG13	2:G:614:PRO:HD3	1.79	0.65
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.62	0.65
2:I:1933:LEU:O	2:I:1989:LEU:HD21	1.97	0.65
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.24	0.65
2:J:1009:ASN:O	2:J:1013:VAL:HG23	1.96	0.65
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.30	0.65
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.79	0.65
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.26	0.65
2:K:1579:ASN:O	2:K:1583:VAL:HG23	1.96	0.65
2:K:1701:GLU:H	2:K:1704:MET:CE	2.10	0.65
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.60	0.65
1:B:557:ARG:HD2	1:E:557:ARG:O	1.96	0.65
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.77	0.65
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.31	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:HD1	1.61	0.65
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.04	0.65
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.79	0.65
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.61	0.65
1:F:1674:ILE:HD12	2:L:1010:ALA:HB3	1.79	0.65
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.79	0.65
2:H:825:SER:HB2	2:H:1053:ILE:HG13	1.79	0.65
2:I:358:ARG:HB2	2:I:389:PHE:CZ	2.32	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.32	0.65
2:L:524:ILE:HG22	2:L:528:THR:HG23	1.79	0.65
2:L:1231:THR:HG22	2:L:1232:VAL:HG13	1.79	0.65
1:E:330:LYS:HG3	1:E:333:ARG:NH1	2.11	0.65
1:E:853:MET:HG2	1:E:856:ASN:HD22	1.61	0.65
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.26	0.65
2:G:270:ARG:HG3	2:G:274:GLU:OE1	1.97	0.65
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.97	0.65
2:G:1231:THR:HG22	2:G:1232:VAL:HG13	1.79	0.65
2:H:786:GLU:H	2:H:786:GLU:CD	2.00	0.65
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.62	0.65
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.62	0.65
2:L:220:GLN:C	2:L:222:PRO:HD3	2.17	0.65
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.32	0.65
2:H:524:ILE:HG22	2:H:528:THR:HG23	1.77	0.65
2:I:584:SER:HB3	2:I:1114:GLU:O	1.95	0.65
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.32	0.65
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.60	0.65
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.78	0.65
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.09	0.65
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.19	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.78	0.65
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.79	0.65
1:D:60:THR:HG23	2:J:1922:VAL:HG13	1.79	0.65
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.79	0.65
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.13	0.65
2:G:605:VAL:HG22	2:G:816:MET:HG3	1.79	0.65
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.78	0.65
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.77	0.65
2:I:741:LEU:HG	2:I:741:LEU:O	1.97	0.65
2:I:1171:TRP:C	2:I:1171:TRP:CD1	2.70	0.65
2:I:1603:PRO:HG2	2:I:1642:MET:HE3	1.79	0.65
2:J:1454:MET:CE	2:J:1550:SER:HA	2.27	0.65
2:K:1220:ARG:HA	2:K:1229:VAL:O	1.96	0.65
2:L:129:ILE:HD13	2:L:132:LYS:HE3	1.78	0.65
2:L:741:LEU:HG	2:L:741:LEU:O	1.96	0.65
1:A:1451:LYS:HG2	1:A:1454:ARG:NH2	2.12	0.64
1:B:330:LYS:HG3	1:B:333:ARG:NH1	2.12	0.64
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.78	0.64
1:E:1541:GLN:HE22	1:E:1633:GLN:HE22	1.45	0.64
1:F:1413:SER:HA	1:F:1499:ARG:NH2	2.12	0.64
2:G:87:VAL:HG22	2:G:98:ASN:HB3	1.79	0.64
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.32	0.64
2:G:1189:THR:O	2:G:1191:PRO:HD3	1.96	0.64
2:G:1918:VAL:HG13	2:G:2006:HIS:CB	2.27	0.64
2:H:87:VAL:HG22	2:H:98:ASN:HB3	1.78	0.64
2:H:1890:ARG:HH22	2:H:1996:ILE:CD1	2.10	0.64
2:I:358:ARG:NH2	2:I:383:VAL:HG21	2.12	0.64
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.27	0.64
2:J:172:ILE:HD11	2:J:501:TRP:HZ2	1.61	0.64
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.32	0.64
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:786:GLU:CD	2:J:786:GLU:H	1.99	0.64
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	2.11	0.64
2:J:1603:PRO:HG2	2:J:1642:MET:HE3	1.78	0.64
2:L:1048:TRP:CD2	2:L:1049:GLN:HG2	2.32	0.64
1:B:553:ARG:HH22	1:B:563:GLN:HB3	1.62	0.64
1:C:852:LEU:HD12	3:C:1901:NAP:O2A	1.97	0.64
2:G:1220:ARG:HA	2:G:1229:VAL:O	1.97	0.64
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.79	0.64
2:H:661:ASN:HD21	4:H:2101:FMN:HN3	1.44	0.64
2:I:549:ASN:ND2	2:I:551:GLU:H	1.94	0.64
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.80	0.64
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.32	0.64
2:K:1231:THR:HG22	2:K:1232:VAL:HG13	1.79	0.64
2:L:661:ASN:HD21	4:L:2101:FMN:HN3	1.44	0.64
2:L:2036:ILE:CG2	2:L:2037:GLY:N	2.60	0.64
1:A:956:ILE:HA	2:G:977:PRO:HA	1.79	0.64
1:A:1342:ARG:HB2	1:A:1345:SER:HB2	1.79	0.64
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.79	0.64
1:C:1480:ARG:O	1:C:1484:GLU:HG3	1.97	0.64
2:G:756:ASP:HA	2:G:843:TRP:CH2	2.32	0.64
2:H:1290:TYR:CD2	2:H:1299:VAL:HB	2.30	0.64
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.79	0.64
2:K:610:PRO:CD	4:K:2101:FMN:H6	2.23	0.64
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.78	0.64
2:K:1650:THR:O	2:K:1669:ALA:HA	1.96	0.64
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.79	0.64
2:L:1171:TRP:CZ3	2:L:1236:LEU:HB2	2.33	0.64
1:B:31:THR:HG23	2:H:2040:ILE:HG21	1.78	0.64
1:B:888:ILE:HA	1:B:891:LEU:HD12	1.79	0.64
1:C:11:TYR:O	1:C:15:VAL:HG23	1.97	0.64
1:C:632:LEU:HA	1:C:635:ILE:CG2	2.27	0.64
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.08	0.64
1:D:852:LEU:HD12	3:D:1901:NAP:O2A	1.96	0.64
1:E:421:ARG:NH2	1:E:1613:LYS:HB3	2.13	0.64
1:E:1480:ARG:O	1:E:1484:GLU:HG3	1.98	0.64
1:F:1413:SER:HA	1:F:1499:ARG:HH22	1.61	0.64
2:G:220:GLN:C	2:G:222:PRO:HD3	2.17	0.64
2:G:1067:LEU:HB2	4:G:2101:FMN:C7M	2.27	0.64
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.79	0.64
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.32	0.64
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.12	0.64
2:I:756:ASP:HA	2:I:843:TRP:CH2	2.33	0.64
2:I:1026:LYS:HG3	3:I:2102:NAP:N7A	2.11	0.64
2:I:1048:TRP:CD2	2:I:1049:GLN:HG2	2.32	0.64
2:J:270:ARG:HG3	2:J:274:GLU:OE1	1.98	0.64
2:J:1220:ARG:HA	2:J:1229:VAL:O	1.97	0.64
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.12	0.64
2:J:1551:ILE:HG22	2:J:1552:GLU:HG3	1.79	0.64
2:J:1890:ARG:HH22	2:J:1996:ILE:CD1	2.10	0.64
2:J:1976:CYS:O	2:J:1980:THR:HG23	1.97	0.64
2:K:35:PHE:CE1	2:K:108:GLU:HG3	2.31	0.64
2:K:462:ALA:H	2:K:483:ASP:HA	1.61	0.64
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.80	0.64
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.32	0.64
2:L:465:LEU:HD11	2:L:486:ILE:HD11	1.78	0.64
1:A:70:ALA:O	2:I:403:LEU:HD12	1.97	0.64
1:A:1068:TYR:O	1:A:1072:ILE:HG13	1.98	0.64
1:D:828:TRP:HE1	1:D:838:THR:HA	1.62	0.64
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.25	0.64
1:F:424:VAL:HG13	1:F:469:LEU:HD11	1.78	0.64
1:F:852:LEU:HD12	3:F:1901:NAP:O2A	1.96	0.64
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.13	0.64
1:F:1342:ARG:HB2	1:F:1345:SER:HB2	1.78	0.64
2:G:950:TRP:CD1	2:G:956:LYS:HD3	2.33	0.64
2:H:584:SER:HB3	2:H:1114:GLU:O	1.97	0.64
2:H:1099:LEU:HD21	2:H:1107:GLU:HG2	1.80	0.64
2:H:1383:VAL:HG23	2:H:1428:TYR:HE1	1.62	0.64
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.33	0.64
2:J:549:ASN:HD22	2:J:550:THR:N	1.95	0.64
2:L:367:ALA:O	2:L:370:GLN:HB3	1.98	0.64
1:A:533:SER:CB	1:A:612:ILE:HB	2.27	0.64
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.78	0.64
1:B:767:HIS:CE1	1:E:767:HIS:CE1	2.85	0.64
1:B:767:HIS:CE1	1:E:767:HIS:HE1	2.15	0.64
1:C:424:VAL:HG13	1:C:469:LEU:HD11	1.79	0.64
1:D:424:VAL:HG13	1:D:469:LEU:HD11	1.78	0.64
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.79	0.64
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.78	0.64
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.80	0.64
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.80	0.64
2:I:1231:THR:HG22	2:I:1232:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.27	0.64
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.63	0.64
2:K:376:ARG:HE	2:L:1339:GLY:HA2	1.61	0.64
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.80	0.64
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.33	0.64
2:L:35:PHE:CE1	2:L:108:GLU:HG3	2.32	0.64
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.62	0.64
1:E:852:LEU:HD12	3:E:1901:NAP:O2A	1.97	0.64
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.27	0.64
1:F:1081:ILE:HG13	1:F:1159:LEU:O	1.98	0.64
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.33	0.64
2:G:20:SER:O	2:G:38:PRO:HA	1.98	0.64
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.80	0.64
2:H:448:HIS:CD2	2:H:491:VAL:HG12	2.29	0.64
2:H:655:GLY:HA3	2:H:1272:ALA:CB	2.28	0.64
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.80	0.64
2:I:489:GLU:HA	2:I:492:ARG:NH1	2.12	0.64
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.28	0.64
2:I:1074:LYS:HE3	2:I:1075:TYR:HE1	1.61	0.64
2:J:1301:PHE:HB3	2:J:1364:ARG:HG3	1.80	0.64
2:K:38:PRO:HD2	2:K:104:LEU:HD11	1.78	0.64
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.32	0.64
2:K:855:ILE:HD13	2:K:856:THR:N	2.13	0.64
2:K:1232:VAL:HG12	2:K:1246:LEU:HD23	1.79	0.64
2:L:1220:ARG:HA	2:L:1229:VAL:O	1.97	0.64
2:L:1551:ILE:HG22	2:L:1552:GLU:HG3	1.78	0.64
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.80	0.64
1:D:408:GLN:HG2	1:D:1610:ARG:NH1	2.12	0.64
1:D:907:PHE:O	1:D:909:PRO:HD3	1.98	0.64
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.33	0.64
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.79	0.64
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.80	0.64
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.61	0.64
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.98	0.64
2:J:367:ALA:O	2:J:370:GLN:HB3	1.98	0.64
2:J:584:SER:HB3	2:J:1114:GLU:O	1.97	0.64
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.62	0.64
2:K:1099:LEU:HD21	2:K:1107:GLU:HG2	1.80	0.64
2:K:1890:ARG:HH22	2:K:1996:ILE:CD1	2.10	0.64
2:L:447:ALA:O	2:L:451:ILE:HG13	1.98	0.64
2:L:950:TRP:CD1	2:L:956:LYS:HD3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.80	0.64
1:B:1581:LEU:HD23	1:B:1617:ILE:HG12	1.80	0.64
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.63	0.64
1:D:539:THR:O	1:D:542:GLN:HG2	1.97	0.64
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.80	0.64
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.80	0.64
2:G:786:GLU:CD	2:G:786:GLU:H	2.01	0.64
2:G:1348:PHE:O	2:G:1351:VAL:HG12	1.98	0.64
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.10	0.64
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.63	0.64
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.79	0.64
2:J:1455:GLN:HB2	2:J:1551:ILE:HD11	1.79	0.64
2:L:265:CYS:SG	2:L:275:LEU:HD12	2.37	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.62	0.64
2:L:612:THR:O	2:L:612:THR:HG22	1.98	0.64
1:A:1102:ILE:HG22	1:A:1104:GLN:HG2	1.80	0.64
1:A:1386:THR:O	1:E:1270:THR:HA	1.97	0.64
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.13	0.64
1:C:696:GLN:HG3	1:C:697:GLY:N	2.13	0.64
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.80	0.64
1:E:1413:SER:HA	1:E:1499:ARG:NH2	2.12	0.64
1:F:442:PRO:HD2	1:F:443:LEU:HD12	1.78	0.64
1:F:808:PHE:HA	1:F:912:LYS:HD3	1.79	0.64
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.33	0.64
2:G:367:ALA:O	2:G:370:GLN:HB3	1.98	0.64
2:H:153:PRO:HB3	2:H:270:ARG:NH1	2.13	0.64
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.61	0.64
2:H:1180:VAL:HG12	2:H:1188:GLN:H	1.61	0.64
2:H:1181:PHE:O	2:H:1188:GLN:HB3	1.98	0.64
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.79	0.64
2:I:1232:VAL:HG12	2:I:1246:LEU:HD23	1.79	0.64
2:I:1290:TYR:CD2	2:I:1299:VAL:HB	2.32	0.64
2:J:779:GLY:O	2:J:780:SER:CB	2.45	0.64
2:K:49:LYS:O	2:K:53:LEU:HG	1.98	0.64
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.63	0.64
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.62	0.64
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.33	0.64
1:D:427:ARG:HG3	1:D:427:ARG:NH1	2.04	0.63
1:F:34:VAL:HG21	2:L:2045:ALA:O	1.97	0.63
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.25	0.63
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.62	0.63
2:G:670:MET:HA	2:G:673:GLN:HB2	1.80	0.63
2:H:162:ALA:HA	2:H:167:VAL:HG22	1.79	0.63
2:I:670:MET:HA	2:I:673:GLN:HB2	1.80	0.63
2:J:44:GLN:HG3	2:J:101:VAL:HG21	1.78	0.63
2:J:220:GLN:C	2:J:222:PRO:HD3	2.18	0.63
2:J:472:THR:H	2:J:493:MET:HE3	1.63	0.63
2:K:110:GLU:HA	2:K:114:MET:HB2	1.80	0.63
2:K:305:ALA:O	2:K:309:LYS:HD3	1.98	0.63
2:K:661:ASN:HD21	4:K:2101:FMN:HN3	1.44	0.63
2:K:785:SER:HA	2:K:788:THR:HB	1.81	0.63
2:L:549:ASN:HD22	2:L:551:GLU:H	1.45	0.63
1:A:1156:PHE:CZ	1:A:1316:TYR:HA	2.33	0.63
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.13	0.63
1:B:632:LEU:HA	1:B:635:ILE:CG2	2.27	0.63
1:C:470:GLY:O	1:C:474:ILE:HG13	1.96	0.63
1:D:12:THR:O	1:D:16:GLU:HG2	1.98	0.63
1:D:862:GLY:O	1:D:865:LYS:HB2	1.97	0.63
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.28	0.63
2:G:779:GLY:O	2:G:780:SER:CB	2.46	0.63
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.63
2:G:1266:HIS:NE2	2:G:1275:ARG:HD2	2.13	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.63	0.63
2:H:1067:LEU:HB2	4:H:2101:FMN:C7M	2.28	0.63
2:K:94:ALA:HB1	2:K:97:THR:OG1	1.98	0.63
2:K:894:GLU:O	2:K:897:LYS:HG2	1.98	0.63
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.81	0.63
2:L:1046:SER:O	2:L:1049:GLN:HG3	1.98	0.63
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.21	0.63
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.80	0.63
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.81	0.63
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.28	0.63
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.13	0.63
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.12	0.63
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.33	0.63
1:E:12:THR:O	1:E:16:GLU:HG2	1.99	0.63
2:I:162:ALA:HA	2:I:167:VAL:HG22	1.79	0.63
2:J:207:LEU:O	2:J:211:LEU:HG	1.98	0.63
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.63	0.63
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.80	0.63
2:K:610:PRO:O	2:K:613:VAL:HG12	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1265:TYR:O	2:K:1267:PRO:HD3	1.98	0.63
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.80	0.63
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.03	0.63
1:B:424:VAL:HG13	1:B:469:LEU:HD11	1.78	0.63
1:B:852:LEU:HD12	3:B:1901:NAP:O2A	1.99	0.63
1:B:1504:ARG:CG	1:B:1504:ARG:NH1	2.48	0.63
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.80	0.63
1:F:339:GLN:O	1:F:343:ILE:HG13	1.98	0.63
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.81	0.63
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.62	0.63
2:G:1331:THR:O	2:I:329:THR:HG22	1.98	0.63
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.79	0.63
2:H:1231:THR:HG22	2:H:1232:VAL:HG13	1.79	0.63
2:I:1123:ALA:O	2:I:1126:GLU:HG3	1.98	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.63	0.63
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.80	0.63
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.81	0.63
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.81	0.63
2:L:655:GLY:HA3	2:L:1272:ALA:CB	2.29	0.63
2:L:827:GLN:NE2	2:L:827:GLN:H	1.96	0.63
2:L:1181:PHE:O	2:L:1188:GLN:HB3	1.98	0.63
2:L:1232:VAL:HG12	2:L:1246:LEU:HD23	1.79	0.63
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.64	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.95	0.63
1:C:1336:GLU:O	1:C:1340:MET:HG2	1.99	0.63
1:D:442:PRO:HD2	1:D:443:LEU:HD12	1.81	0.63
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.15	0.63
1:F:1102:ILE:HG22	1:F:1104:GLN:HG2	1.81	0.63
2:G:396:ILE:H	2:G:396:ILE:HD12	1.63	0.63
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.13	0.63
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.79	0.63
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.33	0.63
2:H:1007:LEU:H	2:H:1007:LEU:CD1	2.11	0.63
2:I:549:ASN:HD22	2:I:550:THR:N	1.97	0.63
2:I:655:GLY:HA3	2:I:1272:ALA:CB	2.28	0.63
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.33	0.63
2:I:1084:LYS:O	2:I:1088:ASP:HB2	1.99	0.63
2:J:22:ARG:O	2:J:37:VAL:HG23	1.98	0.63
2:J:276:LEU:HD12	2:J:298:ALA:O	1.97	0.63
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.97	0.63
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:22:ARG:O	2:K:37:VAL:HG23	1.99	0.63
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.80	0.63
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.79	0.63
2:L:1455:GLN:HB2	2:L:1551:ILE:HD11	1.80	0.63
1:D:1581:LEU:HD23	1:D:1617:ILE:HG12	1.80	0.63
1:E:1700:GLN:O	1:E:1702:ARG:HG3	1.98	0.63
2:G:580:LEU:HD12	2:G:1103:TYR:CE2	2.33	0.63
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.78	0.63
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.81	0.63
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.34	0.63
2:G:1181:PHE:O	2:G:1188:GLN:HB3	1.99	0.63
2:G:1232:VAL:CG1	2:G:1246:LEU:HD23	2.27	0.63
2:H:110:GLU:HA	2:H:114:MET:HB2	1.81	0.63
2:H:367:ALA:O	2:H:370:GLN:HB3	1.99	0.63
2:H:1551:ILE:HG22	2:H:1552:GLU:HG3	1.81	0.63
2:J:38:PRO:HD2	2:J:104:LEU:HD11	1.80	0.63
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.80	0.63
2:K:276:LEU:HD12	2:K:298:ALA:O	1.98	0.63
2:K:756:ASP:HA	2:K:843:TRP:CH2	2.33	0.63
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.63
2:K:1551:ILE:HG22	2:K:1552:GLU:HG3	1.80	0.63
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.81	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.63	0.63
1:B:1260:ALA:O	1:B:1264:MET:HG3	1.98	0.63
1:D:41:THR:HG21	2:J:1691:ALA:HB2	1.81	0.63
1:E:1510:TRP:CZ3	1:E:1642:LEU:HA	2.34	0.63
1:F:632:LEU:HA	1:F:635:ILE:CG2	2.29	0.63
2:G:38:PRO:HD2	2:G:104:LEU:HD11	1.81	0.63
2:G:1370:LEU:HD12	2:G:1373:LEU:HD13	1.80	0.63
2:H:827:GLN:NE2	2:H:827:GLN:H	1.96	0.63
2:I:276:LEU:HD12	2:I:298:ALA:O	1.99	0.63
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.13	0.63
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.13	0.63
2:J:35:PHE:CE1	2:J:108:GLU:HG3	2.34	0.63
2:J:768:ILE:O	2:J:774:ILE:HD12	1.99	0.63
2:J:827:GLN:NE2	2:J:827:GLN:H	1.97	0.63
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.29	0.63
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.63
2:L:571:ASP:HB3	2:L:574:LYS:HB2	1.81	0.63
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.28	0.63
2:L:1890:ARG:HH22	2:L:1996:ILE:CD1	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:852:LEU:HD12	3:A:1901:NAP:O2A	1.99	0.63
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.80	0.63
1:B:926:SER:O	1:B:930:GLN:HG2	1.98	0.63
1:C:430:VAL:O	1:C:434:ILE:HG13	1.99	0.63
1:F:683:THR:HB	1:F:714:PHE:HB3	1.81	0.63
2:G:1701:GLU:H	2:G:1704:MET:CE	2.12	0.63
2:H:141:TYR:OH	2:H:267:THR:HG23	1.98	0.63
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.81	0.63
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.28	0.63
2:H:670:MET:HA	2:H:673:GLN:HB2	1.79	0.63
2:H:1090:ILE:O	2:H:1094:HIS:CD2	2.51	0.63
2:I:95:HIS:HB2	2:I:96:PRO:HD3	1.81	0.63
2:J:1436:ARG:HH22	2:J:1602:LEU:HD13	1.64	0.63
2:J:1669:ALA:HB3	2:J:1679:LEU:HB2	1.81	0.63
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.29	0.63
2:J:1922:VAL:HB	2:J:1925:MET:HB2	1.80	0.63
2:L:87:VAL:HG22	2:L:98:ASN:HB3	1.81	0.63
2:L:1067:LEU:HB2	4:L:2101:FMN:C7M	2.29	0.63
2:L:1538:ASN:HB3	2:L:1541:ILE:HG22	1.81	0.63
1:B:1102:ILE:HG22	1:B:1104:GLN:HG2	1.80	0.63
1:D:926:SER:O	1:D:930:GLN:HG2	1.99	0.63
2:G:549:ASN:HD22	2:G:551:GLU:H	1.46	0.63
2:G:894:GLU:O	2:G:897:LYS:HG2	1.99	0.63
2:G:967:GLU:HG2	2:G:1000:TYR:CE1	2.34	0.63
2:G:1380:TYR:CD2	2:G:1429:VAL:HG22	2.34	0.63
2:H:38:PRO:HD2	2:H:104:LEU:HD11	1.80	0.63
2:H:934:VAL:O	2:H:938:MET:HG3	1.98	0.63
2:I:24:LEU:HD12	2:I:37:VAL:HG21	1.81	0.63
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.33	0.63
2:K:934:VAL:O	2:K:938:MET:HG3	1.98	0.63
2:K:1046:SER:O	2:K:1049:GLN:HG3	1.99	0.63
2:K:1171:TRP:CD1	2:K:1171:TRP:C	2.71	0.63
2:K:1455:GLN:HB2	2:K:1551:ILE:CD1	2.28	0.63
2:L:193:TYR:CD1	2:L:263:ILE:HD13	2.33	0.63
2:L:372:LEU:HD11	2:L:397:SER:HB2	1.81	0.63
2:L:613:VAL:HG23	2:L:635:TYR:CE1	2.34	0.63
2:L:1933:LEU:O	2:L:1989:LEU:HD21	1.99	0.63
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.78	0.62
1:A:1363:MET:HE3	1:A:1368:ALA:HB2	1.81	0.62
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.64	0.62
1:B:565:GLN:O	1:B:569:LEU:HD12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.07	0.62
1:C:755:GLU:HG2	1:D:831:GLU:HG2	1.81	0.62
1:F:506:ILE:HD13	1:F:922:ILE:HG22	1.81	0.62
2:G:1318:ALA:HA	2:G:1391:VAL:HG21	1.80	0.62
2:G:1871:VAL:HB	2:G:2003:VAL:HG22	1.81	0.62
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.81	0.62
2:H:779:GLY:O	2:H:780:SER:CB	2.46	0.62
2:H:1722:ALA:CB	2:H:1812:LEU:HD21	2.29	0.62
2:I:1383:VAL:HG23	2:I:1428:TYR:HE1	1.64	0.62
2:I:1436:ARG:HH22	2:I:1602:LEU:HD13	1.64	0.62
2:I:1455:GLN:HB2	2:I:1551:ILE:CD1	2.29	0.62
2:I:1551:ILE:HG22	2:I:1552:GLU:HG3	1.80	0.62
2:J:250:PHE:HB2	2:J:251:PRO:HD3	1.80	0.62
2:J:1099:LEU:HD21	2:J:1107:GLU:HG2	1.80	0.62
2:J:1421:ARG:HD2	2:J:1426:VAL:HG21	1.80	0.62
2:K:462:ALA:N	2:K:483:ASP:HA	2.14	0.62
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.79	0.62
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.12	0.62
2:L:747:ARG:NH1	2:L:780:SER:HB3	2.14	0.62
2:L:756:ASP:HA	2:L:843:TRP:CH2	2.34	0.62
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.16	0.62
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.45	0.62
1:E:683:THR:HB	1:E:714:PHE:HB3	1.80	0.62
1:F:12:THR:O	1:F:16:GLU:HG2	1.99	0.62
2:G:372:LEU:HD11	2:G:397:SER:HB2	1.80	0.62
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.34	0.62
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.33	0.62
2:H:1579:ASN:O	2:H:1583:VAL:HG23	1.98	0.62
2:H:1650:THR:O	2:H:1669:ALA:HA	1.99	0.62
2:I:20:SER:O	2:I:38:PRO:HA	1.98	0.62
2:I:824:THR:HB	2:I:829:LYS:HE3	1.81	0.62
2:J:20:SER:O	2:J:38:PRO:HA	1.97	0.62
2:J:1933:LEU:O	2:J:1989:LEU:HD21	1.99	0.62
2:K:193:TYR:CD1	2:K:263:ILE:HD13	2.33	0.62
2:K:917:ARG:HD2	2:K:917:ARG:N	2.14	0.62
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.81	0.62
2:L:663:ILE:H	2:L:663:ILE:CD1	2.10	0.62
2:L:779:GLY:O	2:L:780:SER:CB	2.46	0.62
2:L:1650:THR:O	2:L:1669:ALA:HA	1.98	0.62
1:A:1209:PHE:CE2	1:A:1301:VAL:HG21	2.33	0.62
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.14	0.62
1:C:1451:LYS:HG2	1:C:1454:ARG:NH2	2.15	0.62
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.30	0.62
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.34	0.62
1:D:1470:ARG:O	1:D:1474:ILE:HG13	1.98	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.16	0.62
2:G:193:TYR:CD1	2:G:263:ILE:HD13	2.33	0.62
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.34	0.62
2:H:549:ASN:HD22	2:H:550:THR:N	1.97	0.62
2:H:612:THR:HG22	2:H:612:THR:O	1.98	0.62
2:H:964:ARG:O	2:H:967:GLU:HB2	1.99	0.62
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.62	0.62
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.80	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	1.98	0.62
2:L:926:LEU:O	2:L:1008:ILE:HD11	1.99	0.62
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.30	0.62
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.81	0.62
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.80	0.62
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.62
1:F:617:LEU:N	1:F:617:LEU:HD23	2.13	0.62
2:G:1231:THR:CG2	2:G:1595:VAL:HG11	2.29	0.62
2:H:396:ILE:H	2:H:396:ILE:HD12	1.64	0.62
2:H:440:HIS:CD2	2:H:499:VAL:HG23	2.33	0.62
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.81	0.62
2:J:571:ASP:HB3	2:J:574:LYS:HB2	1.82	0.62
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.14	0.62
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.09	0.62
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.80	0.62
2:K:917:ARG:HD3	2:K:937:ARG:NH2	2.14	0.62
2:K:1922:VAL:HB	2:K:1925:MET:HB2	1.82	0.62
2:L:20:SER:O	2:L:38:PRO:HA	1.99	0.62
2:L:276:LEU:HD12	2:L:298:ALA:O	1.98	0.62
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.29	0.62
2:L:1922:VAL:HB	2:L:1925:MET:HB2	1.81	0.62
1:A:60:THR:HG23	2:G:1922:VAL:HG13	1.82	0.62
1:A:632:LEU:HA	1:A:635:ILE:CG2	2.29	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:D:1702:ARG:CG	1:D:1702:ARG:NH1	2.40	0.62
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.62	0.62
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.35	0.62
2:G:743:TRP:HZ2	2:G:757:PHE:HA	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1515:LEU:O	2:G:1523:ILE:HD12	2.00	0.62
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.34	0.62
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.80	0.62
2:H:549:ASN:HD22	2:H:551:GLU:H	1.46	0.62
2:H:1933:LEU:O	2:H:1989:LEU:HD21	1.99	0.62
2:J:95:HIS:HB2	2:J:96:PRO:HD3	1.81	0.62
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.81	0.62
2:J:1442:TYR:O	2:J:1445:THR:HG22	1.98	0.62
2:J:1729:ASN:O	2:J:1757:ILE:HG23	1.99	0.62
2:K:272:PRO:O	2:K:276:LEU:HB2	1.99	0.62
2:K:608:MET:H	2:K:612:THR:HB	1.65	0.62
2:K:670:MET:HA	2:K:673:GLN:HB2	1.81	0.62
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.80	0.62
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.63	0.62
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.81	0.62
1:A:620:LYS:HA	1:A:625:ASN:O	1.98	0.62
1:D:1113:LYS:HG3	1:D:1138:TYR:CE2	2.35	0.62
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.33	0.62
1:E:1267:LEU:HD11	1:E:1303:LEU:HD12	1.81	0.62
2:G:380:ILE:O	2:G:380:ILE:HG13	1.98	0.62
2:G:472:THR:H	2:G:493:MET:HE3	1.64	0.62
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.80	0.62
2:H:49:LYS:O	2:H:53:LEU:HG	1.99	0.62
2:I:461:PRO:HA	2:I:484:GLU:O	2.00	0.62
2:J:447:ALA:O	2:J:451:ILE:HG13	1.99	0.62
2:J:743:TRP:HZ2	2:J:757:PHE:HA	1.65	0.62
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.12	0.62
2:J:1871:VAL:HB	2:J:2003:VAL:HG22	1.80	0.62
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.80	0.62
1:D:433:CYS:O	1:D:437:MET:HG3	1.99	0.62
1:D:766:ALA:HA	1:D:769:ILE:HD12	1.80	0.62
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.00	0.62
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.82	0.62
1:F:978:LYS:HB3	1:F:979:PRO:HD3	1.82	0.62
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.14	0.62
2:H:276:LEU:HD12	2:H:298:ALA:O	2.00	0.62
2:H:699:ILE:H	2:H:699:ILE:HD12	1.64	0.62
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.81	0.62
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.29	0.62
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.00	0.62
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.82	0.62
2:J:1468:ARG:NH1	2:J:1475:LEU:HB2	2.14	0.62
2:K:618:VAL:O	2:K:622:MET:HG3	1.99	0.62
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.64	0.62
2:L:846:THR:HG22	2:L:856:THR:N	2.15	0.62
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.30	0.62
1:A:399:TYR:OH	1:A:692:THR:HG23	1.99	0.62
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.82	0.62
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.82	0.62
1:C:746:PHE:CE1	1:C:800:PRO:HG3	2.35	0.62
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.81	0.62
1:E:11:TYR:O	1:E:15:VAL:HG23	1.99	0.62
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.00	0.62
2:G:855:ILE:HD13	2:G:856:THR:N	2.13	0.62
2:G:1290:TYR:CD2	2:G:1299:VAL:HB	2.34	0.62
2:G:1340:LYS:HE3	2:I:376:ARG:HH22	1.65	0.62
2:G:1468:ARG:NH1	2:G:1475:LEU:HB2	2.14	0.62
2:G:1612:THR:O	2:G:1616:VAL:HG12	1.99	0.62
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.82	0.62
2:H:854:VAL:HG21	2:H:1070:PRO:CA	2.27	0.62
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.34	0.62
2:I:610:PRO:O	2:I:613:VAL:HG12	2.00	0.62
2:I:699:ILE:H	2:I:699:ILE:HD12	1.63	0.62
2:I:1350:ILE:O	2:I:1354:TRP:HB2	1.99	0.62
2:I:1922:VAL:HB	2:I:1925:MET:HB2	1.82	0.62
2:J:49:LYS:O	2:J:53:LEU:HG	1.99	0.62
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.34	0.62
2:K:612:THR:HG22	2:K:612:THR:O	1.98	0.62
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.15	0.62
2:L:743:TRP:HZ2	2:L:757:PHE:HA	1.64	0.62
2:L:855:ILE:HD13	2:L:856:THR:N	2.15	0.62
2:L:1180:VAL:HG12	2:L:1188:GLN:H	1.65	0.62
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.63	0.62
1:B:550:LYS:NZ	1:B:631:LYS:HE2	2.15	0.62
1:C:862:GLY:O	1:C:865:LYS:HB2	1.99	0.62
1:C:911:LEU:O	1:C:915:MET:HG3	2.00	0.62
1:C:1581:LEU:HD23	1:C:1617:ILE:HG12	1.82	0.62
1:D:947:ASP:O	1:D:951:LEU:HG	1.99	0.62
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.34	0.62
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.00	0.62
1:E:433:CYS:O	1:E:437:MET:HG3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:LYS:HA	1:F:625:ASN:O	2.00	0.62
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.82	0.62
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.81	0.62
2:G:1454:MET:CE	2:G:1550:SER:HA	2.28	0.62
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.30	0.62
2:H:44:GLN:HG3	2:H:101:VAL:HG21	1.81	0.62
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.14	0.62
2:H:388:ASN:C	2:H:388:ASN:HD22	2.03	0.62
2:H:855:ILE:HD13	2:H:856:THR:N	2.15	0.62
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.65	0.62
2:I:964:ARG:O	2:I:967:GLU:HB2	1.99	0.62
2:I:1189:THR:O	2:I:1191:PRO:HD3	1.99	0.62
2:J:1232:VAL:HG12	2:J:1246:LEU:HD23	1.80	0.62
2:K:365:ILE:HG23	2:K:378:ILE:HG22	1.81	0.62
2:K:374:GLU:CA	2:K:377:HIS:CD2	2.78	0.62
2:K:549:ASN:HD22	2:K:550:THR:N	1.98	0.62
2:K:779:GLY:O	2:K:780:SER:CB	2.47	0.62
2:L:845:ASN:HB3	2:L:851:THR:OG1	1.99	0.62
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.35	0.62
1:C:31:THR:HG23	2:I:2040:ILE:HG21	1.82	0.62
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.00	0.62
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.10	0.62
1:F:1670:HIS:CE1	2:L:1009:ASN:ND2	2.68	0.62
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.10	0.62
2:G:827:GLN:NE2	2:G:827:GLN:H	1.97	0.62
2:G:902:ILE:O	2:G:906:LEU:HB2	1.99	0.62
2:G:1090:ILE:O	2:G:1094:HIS:HD2	1.83	0.62
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.30	0.62
2:G:1650:THR:O	2:G:1669:ALA:HA	1.99	0.62
2:G:1722:ALA:CB	2:G:1812:LEU:HD21	2.30	0.62
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.80	0.62
2:I:1048:TRP:HE1	2:I:1049:GLN:HE21	1.48	0.62
2:I:1579:ASN:O	2:I:1583:VAL:HG23	1.99	0.62
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.28	0.62
2:J:934:VAL:O	2:J:938:MET:HG3	2.00	0.62
2:K:549:ASN:HD22	2:K:551:GLU:H	1.46	0.62
2:K:549:ASN:ND2	2:K:551:GLU:H	1.97	0.62
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.81	0.62
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.81	0.62
2:L:1048:TRP:HE1	2:L:1049:GLN:HE21	1.47	0.62
2:L:1436:ARG:NH2	2:L:1602:LEU:HD11	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.14	0.61
1:B:911:LEU:O	1:B:915:MET:HG3	1.99	0.61
1:B:1090:ASP:OD1	1:B:1092:ASN:HB2	2.00	0.61
1:B:1107:GLU:HG3	1:B:1108:PRO:CD	2.30	0.61
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.35	0.61
1:E:843:VAL:HG13	1:E:900:ASP:HA	1.81	0.61
2:H:833:VAL:HG13	2:H:1077:LYS:HA	1.82	0.61
2:I:49:LYS:O	2:I:53:LEU:HG	2.00	0.61
2:I:1099:LEU:HD21	2:I:1107:GLU:HG2	1.80	0.61
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.22	0.61
2:I:1871:VAL:HB	2:I:2003:VAL:HG22	1.79	0.61
2:J:917:ARG:N	2:J:917:ARG:HD2	2.16	0.61
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.14	0.61
2:J:1650:THR:O	2:J:1669:ALA:HA	2.00	0.61
2:J:1700:GLN:HA	2:J:1704:MET:CE	2.30	0.61
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.65	0.61
2:K:1180:VAL:HG12	2:K:1188:GLN:H	1.64	0.61
2:K:1871:VAL:HB	2:K:2003:VAL:HG22	1.81	0.61
2:L:22:ARG:O	2:L:37:VAL:HG23	1.99	0.61
2:L:388:ASN:HD22	2:L:388:ASN:C	2.02	0.61
2:L:1290:TYR:CD2	2:L:1299:VAL:HB	2.35	0.61
1:A:30:GLU:HB2	2:G:2045:ALA:CB	2.30	0.61
1:A:696:GLN:HG3	1:A:697:GLY:N	2.14	0.61
1:B:746:PHE:CE1	1:B:800:PRO:HG3	2.34	0.61
1:B:978:LYS:HB3	1:B:979:PRO:HD3	1.83	0.61
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.82	0.61
1:D:68:TYR:HD1	2:L:371:HIS:CD2	2.17	0.61
1:E:1234:GLY:HA2	1:E:1238:ASP:HB2	1.80	0.61
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.81	0.61
2:G:110:GLU:HA	2:G:114:MET:HB2	1.80	0.61
2:G:190:TYR:HD1	2:G:201:ILE:HD13	1.64	0.61
2:G:2036:ILE:CG2	2:G:2037:GLY:N	2.63	0.61
2:H:376:ARG:HH22	2:I:1340:LYS:CE	2.12	0.61
2:I:193:TYR:CD1	2:I:263:ILE:HD13	2.36	0.61
2:I:832:ILE:HA	2:I:868:LEU:HD11	1.82	0.61
2:J:141:TYR:OH	2:J:267:THR:HG23	2.01	0.61
2:L:272:PRO:O	2:L:276:LEU:HB2	2.00	0.61
2:L:1455:GLN:HB2	2:L:1551:ILE:CD1	2.30	0.61
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.35	0.61
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.55	0.61
1:B:1448:ALA:HA	1:B:1451:LYS:CE	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:926:SER:O	1:C:930:GLN:HG2	1.99	0.61
1:D:696:GLN:HG3	1:D:697:GLY:N	2.15	0.61
2:G:931:TYR:O	2:G:935:VAL:HG12	2.00	0.61
2:H:596:ARG:HH22	2:H:1113:ILE:CD1	2.12	0.61
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.62	0.61
2:H:1845:VAL:HG21	2:H:1856:LEU:HD22	1.81	0.61
2:H:1922:VAL:HB	2:H:1925:MET:HB2	1.83	0.61
2:I:1370:LEU:HD12	2:I:1373:LEU:HD13	1.81	0.61
2:I:1538:ASN:HB3	2:I:1541:ILE:HG22	1.82	0.61
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.35	0.61
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.76	0.61
2:K:876:TRP:CD1	2:K:876:TRP:C	2.72	0.61
2:K:902:ILE:O	2:K:906:LEU:HB2	1.99	0.61
2:K:1305:LEU:H	2:K:1305:LEU:HD12	1.65	0.61
2:K:1700:GLN:HA	2:K:1704:MET:CE	2.31	0.61
2:K:2036:ILE:CG2	2:K:2037:GLY:N	2.63	0.61
2:L:1603:PRO:HG2	2:L:1642:MET:HE3	1.82	0.61
1:A:1581:LEU:HD23	1:A:1617:ILE:HG12	1.82	0.61
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.65	0.61
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	1.83	0.61
1:C:1448:ALA:HA	1:C:1451:LYS:CE	2.29	0.61
1:D:430:VAL:O	1:D:434:ILE:HG13	2.00	0.61
1:E:557:ARG:HG3	1:E:557:ARG:NH1	2.02	0.61
1:F:926:SER:O	1:F:930:GLN:HG2	2.00	0.61
1:F:1700:GLN:O	1:F:1702:ARG:HG3	2.01	0.61
2:G:608:MET:H	2:G:612:THR:HB	1.65	0.61
2:G:1400:GLN:HG3	2:G:1448:ARG:HH12	1.65	0.61
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.64	0.61
2:H:1455:GLN:HB2	2:H:1551:ILE:CD1	2.30	0.61
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.81	0.61
2:I:174:GLY:H	2:I:517:GLY:HA3	1.65	0.61
2:I:447:ALA:O	2:I:451:ILE:HG13	2.01	0.61
2:I:845:ASN:HB3	2:I:851:THR:OG1	2.00	0.61
2:I:1966:ARG:O	2:I:1970:VAL:HG23	2.00	0.61
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.82	0.61
2:J:87:VAL:HG22	2:J:98:ASN:HB3	1.83	0.61
2:J:289:ILE:HG12	2:J:493:MET:HE1	1.82	0.61
2:J:596:ARG:HH22	2:J:1113:ILE:CD1	2.13	0.61
2:J:855:ILE:HD13	2:J:856:THR:N	2.14	0.61
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.40	0.61
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:832:ILE:HA	2:K:868:LEU:HD11	1.81	0.61
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.65	0.61
2:L:49:LYS:O	2:L:53:LEU:HG	2.00	0.61
2:L:95:HIS:HB2	2:L:96:PRO:HD3	1.82	0.61
2:L:110:GLU:HA	2:L:114:MET:HB2	1.82	0.61
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.07	0.61
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.82	0.61
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.81	0.61
1:A:562:SER:HB3	1:F:555:GLN:OE1	1.99	0.61
1:A:767:HIS:HE1	1:F:767:HIS:CE1	2.18	0.61
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.82	0.61
1:E:1451:LYS:HG2	1:E:1454:ARG:NH2	2.14	0.61
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.80	0.61
2:G:549:ASN:ND2	2:G:551:GLU:H	1.97	0.61
2:G:1436:ARG:HH22	2:G:1602:LEU:HD13	1.65	0.61
2:I:612:THR:O	2:I:612:THR:HG22	2.00	0.61
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.36	0.61
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.64	0.61
2:J:605:VAL:HG22	2:J:816:MET:HG3	1.82	0.61
2:J:699:ILE:H	2:J:699:ILE:HD12	1.65	0.61
2:J:756:ASP:HA	2:J:843:TRP:HH2	1.65	0.61
2:J:1048:TRP:HE1	2:J:1049:GLN:HE21	1.46	0.61
2:K:348:THR:HB	2:K:349:PRO:CD	2.31	0.61
2:K:747:ARG:NH2	2:K:757:PHE:CE1	2.69	0.61
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.64	0.61
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.30	0.61
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.83	0.61
1:C:339:GLN:O	1:C:343:ILE:HG13	2.01	0.61
1:C:533:SER:HA	1:C:907:PHE:CE1	2.35	0.61
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.65	0.61
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.83	0.61
2:G:44:GLN:HG3	2:G:101:VAL:HG21	1.81	0.61
2:G:49:LYS:O	2:G:53:LEU:HG	2.01	0.61
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.82	0.61
2:G:661:ASN:HD21	4:G:2101:FMN:HN3	1.48	0.61
2:H:95:HIS:HB2	2:H:96:PRO:HD3	1.83	0.61
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.82	0.61
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.81	0.61
2:H:2005:PHE:HB3	2:H:2010:LEU:HD11	1.82	0.61
2:I:942:MET:CE	2:I:955:LEU:HB3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1232:VAL:CG1	2:I:1246:LEU:HD23	2.31	0.61
2:J:501:TRP:HE1	2:J:528:THR:CG2	2.11	0.61
2:J:962:PHE:O	2:J:966:VAL:HG23	2.01	0.61
2:J:1046:SER:O	2:J:1049:GLN:HG3	2.00	0.61
2:J:1048:TRP:CD2	2:J:1049:GLN:HG2	2.35	0.61
2:K:87:VAL:HG22	2:K:98:ASN:HB3	1.81	0.61
2:K:741:LEU:HG	2:K:741:LEU:O	2.00	0.61
2:K:794:GLY:O	2:K:804:PRO:HA	2.01	0.61
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	2.16	0.61
2:K:2036:ILE:HG22	2:K:2037:GLY:H	1.64	0.61
2:L:57:PRO:HG2	2:L:68:GLU:HG3	1.83	0.61
2:L:209:GLN:O	2:L:213:ARG:HG3	2.00	0.61
2:L:832:ILE:HA	2:L:868:LEU:HD11	1.82	0.61
2:L:868:LEU:O	2:L:870:THR:HG23	2.01	0.61
1:A:853:MET:HG2	1:A:856:ASN:HD22	1.65	0.61
1:A:1470:ARG:O	1:A:1474:ILE:HG13	1.99	0.61
1:B:405:TRP:CZ3	1:B:1609:SER:HB3	2.35	0.61
1:C:947:ASP:O	1:C:951:LEU:HG	2.00	0.61
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.81	0.61
1:D:911:LEU:O	1:D:915:MET:HG3	2.00	0.61
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	1.81	0.61
1:E:620:LYS:HA	1:E:625:ASN:O	2.00	0.61
1:F:947:ASP:O	1:F:951:LEU:HG	1.99	0.61
1:F:1490:GLY:O	1:F:1509:THR:HB	2.01	0.61
2:G:618:VAL:O	2:G:622:MET:HG3	2.01	0.61
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.16	0.61
2:H:305:ALA:O	2:H:309:LYS:HD3	2.01	0.61
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.35	0.61
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.65	0.61
2:I:1180:VAL:HG12	2:I:1188:GLN:H	1.65	0.61
2:I:1650:THR:O	2:I:1669:ALA:HA	2.01	0.61
2:I:1851:MET:HE1	2:I:1855:SER:HB3	1.83	0.61
2:J:351:LEU:HD22	2:J:352:SER:N	2.15	0.61
2:J:1674:THR:HB	2:J:1676:GLU:HG3	1.83	0.61
2:K:167:VAL:CG2	2:K:169:ILE:HG13	2.29	0.61
2:L:117:ASN:HA	2:L:561:ARG:HG3	1.82	0.61
2:L:532:LYS:HD3	2:L:537:VAL:HG21	1.82	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:CD1	2.30	0.61
1:B:617:LEU:HD23	1:B:617:LEU:N	2.15	0.61
1:E:405:TRP:CZ3	1:E:1609:SER:HB3	2.36	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:HD1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.09	0.61
1:F:669:VAL:O	1:F:673:LEU:HD12	2.01	0.61
1:F:1090:ASP:OD1	1:F:1092:ASN:HB2	2.00	0.61
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	1.82	0.61
1:F:1451:LYS:HG2	1:F:1454:ARG:NH2	2.16	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61
2:H:1232:VAL:CG1	2:H:1246:LEU:HD23	2.30	0.61
2:I:388:ASN:C	2:I:388:ASN:HD22	2.03	0.61
2:I:608:MET:H	2:I:612:THR:HB	1.66	0.61
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.83	0.61
2:I:902:ILE:O	2:I:906:LEU:HB2	2.01	0.61
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.83	0.61
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.35	0.61
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.82	0.61
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.82	0.61
2:L:1468:ARG:NH1	2:L:1475:LEU:HB2	2.14	0.61
1:B:22:PHE:HE1	2:H:1867:MET:HG3	1.66	0.61
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.61
1:C:905:LEU:HD22	1:C:911:LEU:HD21	1.83	0.61
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.01	0.61
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.53	0.61
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.83	0.61
2:G:276:LEU:HD12	2:G:298:ALA:O	2.00	0.61
2:G:791:TYR:HA	2:G:796:TRP:HD1	1.64	0.61
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.36	0.61
2:H:270:ARG:HG3	2:H:274:GLU:OE1	1.99	0.61
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.80	0.61
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.81	0.61
2:I:365:ILE:HG23	2:I:378:ILE:HG22	1.83	0.61
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.82	0.61
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.82	0.61
2:J:653:PRO:O	2:J:656:ARG:HB2	2.01	0.61
2:J:832:ILE:HA	2:J:868:LEU:HD11	1.83	0.61
2:K:1616:VAL:HG11	2:K:1679:LEU:CD1	2.27	0.61
2:K:2005:PHE:HB3	2:K:2010:LEU:HD11	1.83	0.61
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.83	0.61
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.82	0.61
2:L:1669:ALA:HB3	2:L:1679:LEU:HB2	1.82	0.61
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.01	0.61
1:B:427:ARG:HH11	1:B:492:ILE:HG12	1.65	0.61
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	2.01	0.61
1:B:1670:HIS:CE1	2:H:1009:ASN:ND2	2.69	0.61
1:C:575:ARG:O	1:C:579:MET:HG3	2.01	0.61
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.83	0.61
2:G:1180:VAL:HG12	2:G:1188:GLN:H	1.66	0.61
2:H:22:ARG:O	2:H:37:VAL:HG23	2.01	0.61
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.82	0.61
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.35	0.61
2:H:1046:SER:O	2:H:1049:GLN:HG3	2.01	0.61
2:I:57:PRO:HG2	2:I:68:GLU:HG3	1.83	0.61
2:I:1405:ILE:HA	2:I:1445:THR:OG1	1.99	0.61
2:I:2021:LEU:O	2:I:2025:ILE:HG13	2.01	0.61
2:J:162:ALA:HA	2:J:167:VAL:HG22	1.81	0.61
2:J:290:VAL:HG22	2:J:490:LEU:HD13	1.81	0.61
2:J:1579:ASN:O	2:J:1583:VAL:HG23	1.99	0.61
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.31	0.61
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.14	0.61
1:A:570:TYR:HD2	1:A:574:ILE:HD11	1.65	0.60
1:B:1113:LYS:HG3	1:B:1138:TYR:CE2	2.36	0.60
1:D:620:LYS:HA	1:D:625:ASN:O	2.00	0.60
1:D:1448:ALA:HA	1:D:1451:LYS:CE	2.29	0.60
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.29	0.60
2:G:750:GLY:O	2:G:865:ILE:HA	2.01	0.60
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.83	0.60
2:G:1455:GLN:HB2	2:G:1551:ILE:CD1	2.31	0.60
2:G:1700:GLN:HA	2:G:1704:MET:CE	2.31	0.60
2:H:35:PHE:CE1	2:H:108:GLU:HG3	2.36	0.60
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.31	0.60
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.60
2:I:2036:ILE:HG22	2:I:2037:GLY:H	1.65	0.60
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.60
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.83	0.60
2:L:94:ALA:HB1	2:L:97:THR:OG1	2.01	0.60
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.36	0.60
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.35	0.60
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.01	0.60
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.82	0.60
1:A:613:PRO:C	1:A:615:LEU:H	2.04	0.60
1:B:382:ILE:HD12	1:B:761:SER:HB3	1.83	0.60
1:B:683:THR:HB	1:B:714:PHE:HB3	1.83	0.60
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1451:LYS:HG2	1:B:1454:ARG:NH2	2.16	0.60
1:F:1443:LEU:HD11	1:F:1470:ARG:HD2	1.83	0.60
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.66	0.60
2:H:743:TRP:HZ2	2:H:757:PHE:HA	1.66	0.60
2:H:1603:PRO:HG2	2:H:1642:MET:HE3	1.83	0.60
2:I:290:VAL:HG22	2:I:490:LEU:HD13	1.83	0.60
2:I:670:MET:HB2	2:I:674:ILE:HD12	1.83	0.60
2:J:305:ALA:O	2:J:309:LYS:HD3	2.01	0.60
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.30	0.60
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.82	0.60
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.82	0.60
2:J:1538:ASN:HB3	2:J:1541:ILE:HG22	1.84	0.60
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.37	0.60
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.66	0.60
2:L:158:LEU:HA	2:L:566:VAL:CG2	2.26	0.60
2:L:162:ALA:HA	2:L:167:VAL:HG22	1.82	0.60
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.35	0.60
1:A:1702:ARG:CG	1:A:1702:ARG:NH1	2.45	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.83	0.60
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.01	0.60
1:D:41:THR:HA	2:J:1689:VAL:HB	1.83	0.60
1:E:983:GLN:HB3	1:E:1418:ILE:HG21	1.81	0.60
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.81	0.60
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.19	0.60
2:H:209:GLN:O	2:H:213:ARG:HG3	2.01	0.60
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.31	0.60
2:H:447:ALA:O	2:H:451:ILE:HG13	2.01	0.60
2:H:902:ILE:O	2:H:906:LEU:HB2	2.02	0.60
2:H:1048:TRP:CD2	2:H:1049:GLN:HG2	2.36	0.60
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.00	0.60
2:H:1612:THR:O	2:H:1616:VAL:HG12	2.01	0.60
2:I:152:LYS:HB2	2:I:154:TYR:CE1	2.36	0.60
2:I:197:VAL:HG12	2:I:201:ILE:HG13	1.82	0.60
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.84	0.60
2:I:1067:LEU:HB2	4:I:2101:FMN:C7M	2.31	0.60
2:I:1515:LEU:O	2:I:1523:ILE:HD12	2.01	0.60
2:I:1700:GLN:HA	2:I:1704:MET:CE	2.30	0.60
2:I:1701:GLU:H	2:I:1704:MET:CE	2.15	0.60
2:I:1804:GLN:HB3	2:I:1861:PHE:CE1	2.36	0.60
2:J:94:ALA:HB1	2:J:97:THR:OG1	2.02	0.60
2:J:918:ASN:HB3	2:J:924:VAL:CG2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.83	0.60
2:J:2005:PHE:HB3	2:J:2010:LEU:HD11	1.84	0.60
2:K:1094:HIS:O	2:K:1098:LEU:HB2	2.01	0.60
2:L:170:TYR:CZ	2:L:507:PHE:HB3	2.35	0.60
2:L:174:GLY:H	2:L:517:GLY:HA3	1.65	0.60
2:L:351:LEU:HD22	2:L:352:SER:N	2.16	0.60
2:L:396:ILE:HD12	2:L:396:ILE:H	1.66	0.60
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.83	0.60
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.36	0.60
2:L:930:THR:CG2	2:L:933:GLU:HG3	2.32	0.60
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.83	0.60
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.60
1:E:339:GLN:O	1:E:343:ILE:HG13	2.01	0.60
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.17	0.60
1:F:1260:ALA:O	1:F:1264:MET:HG3	2.00	0.60
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	2.02	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.66	0.60
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.82	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:CD2	2.36	0.60
2:J:1481:ILE:HD12	2:J:1515:LEU:HD23	1.83	0.60
2:K:170:TYR:CZ	2:K:507:PHE:HB3	2.36	0.60
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.60
1:D:1267:LEU:HD11	1:D:1303:LEU:HD12	1.82	0.60
1:E:570:TYR:HD2	1:E:574:ILE:HD11	1.66	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.31	0.60
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.01	0.60
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.60
1:F:1480:ARG:O	1:F:1484:GLU:HG3	2.01	0.60
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.32	0.60
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.83	0.60
2:G:1922:VAL:HB	2:G:1925:MET:HB2	1.84	0.60
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.20	0.60
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.19	0.60
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.02	0.60
2:J:1564:SER:HB2	2:J:1653:LEU:H	1.65	0.60
2:K:261:TYR:CD1	2:K:295:ILE:HG12	2.36	0.60
2:K:670:MET:HB2	2:K:674:ILE:HD12	1.83	0.60
2:K:882:LYS:HB3	2:K:898:ARG:HH12	1.65	0.60
2:L:549:ASN:ND2	2:L:551:GLU:H	1.99	0.60
2:L:1094:HIS:O	2:L:1098:LEU:HB2	2.02	0.60
2:L:1593:SER:OG	2:L:1596:PHE:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:987:MET:O	1:B:1490:GLY:HA3	2.00	0.60
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.20	0.60
1:E:557:ARG:CG	1:E:557:ARG:NH1	2.55	0.60
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.36	0.60
2:G:209:GLN:O	2:G:213:ARG:HG3	2.02	0.60
2:G:348:THR:HB	2:G:349:PRO:CD	2.31	0.60
2:G:918:ASN:HB3	2:G:924:VAL:CG2	2.31	0.60
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.37	0.60
2:H:1171:TRP:CZ3	2:H:1236:LEU:HB2	2.37	0.60
2:I:1564:SER:HB2	2:I:1653:LEU:H	1.67	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:HD2	1.66	0.60
2:J:193:TYR:CD1	2:J:263:ILE:HD13	2.37	0.60
2:J:209:GLN:O	2:J:213:ARG:HG3	2.01	0.60
2:J:917:ARG:HG2	2:J:937:ARG:NH1	2.16	0.60
2:J:930:THR:HA	2:J:1007:LEU:HA	1.83	0.60
2:K:174:GLY:H	2:K:517:GLY:HA3	1.67	0.60
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.31	0.60
2:K:1266:HIS:NE2	2:K:1275:ARG:HD2	2.17	0.60
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.15	0.60
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.82	0.60
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.28	0.60
2:L:2005:PHE:HB3	2:L:2010:LEU:HD11	1.83	0.60
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.83	0.60
1:C:1113:LYS:HG3	1:C:1138:TYR:CE2	2.35	0.60
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.67	0.60
1:C:1425:LEU:HD21	1:C:1429:ARG:NH2	2.16	0.60
1:D:524:LYS:O	1:D:528:GLU:HG3	2.01	0.60
1:D:1490:GLY:O	1:D:1509:THR:HB	2.02	0.60
1:E:673:LEU:O	1:E:678:ALA:HB3	2.00	0.60
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.84	0.60
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.37	0.60
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.83	0.60
1:F:853:MET:HG2	1:F:856:ASN:HD22	1.65	0.60
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.37	0.60
2:G:832:ILE:HA	2:G:868:LEU:HD11	1.84	0.60
2:G:1171:TRP:CZ3	2:G:1236:LEU:HB2	2.37	0.60
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.66	0.60
2:H:57:PRO:HG2	2:H:68:GLU:HG3	1.83	0.60
2:H:846:THR:HG22	2:H:856:THR:N	2.17	0.60
2:H:917:ARG:HD2	2:H:917:ARG:N	2.16	0.60
2:I:396:ILE:H	2:I:396:ILE:HD12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:685:VAL:HG23	2:I:1186:ARG:HH12	1.67	0.60
2:I:855:ILE:HD13	2:I:856:THR:N	2.17	0.60
2:I:1593:SER:OG	2:I:1596:PHE:HB2	2.02	0.60
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.60
2:J:174:GLY:H	2:J:517:GLY:HA3	1.66	0.60
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.64	0.60
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.55	0.60
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.02	0.60
2:J:1515:LEU:O	2:J:1523:ILE:HD12	2.01	0.60
2:J:1944:ASN:HA	2:J:1993:PHE:HD2	1.67	0.60
2:K:380:ILE:HG13	2:K:380:ILE:O	2.02	0.60
2:K:1207:THR:O	2:K:1215:THR:HA	2.01	0.60
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.82	0.60
2:L:102:LEU:O	2:L:106:LEU:HG	2.02	0.60
2:L:440:HIS:HD2	2:L:497:ASP:O	1.84	0.60
2:L:1515:LEU:O	2:L:1523:ILE:HD12	2.02	0.60
1:A:1113:LYS:HG3	1:A:1138:TYR:CE2	2.37	0.60
1:C:502:ALA:HA	1:C:929:ARG:HD3	1.83	0.60
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.37	0.60
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.20	0.60
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.84	0.60
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.32	0.60
1:D:1480:ARG:O	1:D:1484:GLU:HG3	2.01	0.60
1:E:1120:LYS:HD3	1:E:1129:ILE:HG12	1.83	0.60
2:G:290:VAL:HG22	2:G:490:LEU:HD13	1.83	0.60
2:G:930:THR:HA	2:G:1007:LEU:HA	1.83	0.60
2:G:1403:ALA:HB2	2:G:1447:GLN:HG3	1.82	0.60
2:H:549:ASN:ND2	2:H:551:GLU:H	1.98	0.60
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.37	0.60
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.37	0.60
2:I:35:PHE:CE1	2:I:108:GLU:HG3	2.37	0.60
2:I:1421:ARG:HG2	2:I:1421:ARG:O	2.02	0.60
2:J:197:VAL:HG12	2:J:201:ILE:HG13	1.84	0.60
2:J:272:PRO:O	2:J:276:LEU:HB2	2.01	0.60
2:J:846:THR:HG22	2:J:856:THR:N	2.16	0.60
2:K:95:HIS:HB2	2:K:96:PRO:HD3	1.84	0.60
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.83	0.60
2:K:1232:VAL:CG1	2:K:1246:LEU:HD23	2.32	0.60
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.84	0.60
2:L:172:ILE:HG22	2:L:514:VAL:O	2.02	0.60
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1317:ASN:HB3	2:L:1320:ALA:HB3	1.84	0.60
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.83	0.60
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.84	0.60
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.17	0.60
1:A:673:LEU:O	1:A:678:ALA:HB3	2.02	0.60
1:B:11:TYR:O	1:B:15:VAL:HG23	2.02	0.60
1:B:1224:SER:HB2	1:B:1307:PHE:O	2.01	0.60
1:C:399:TYR:OH	1:C:692:THR:HG23	2.01	0.60
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.01	0.60
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.17	0.60
2:G:35:PHE:CE1	2:G:108:GLU:HG3	2.37	0.60
2:G:298:ALA:CB	2:G:304:PHE:HA	2.32	0.60
2:G:655:GLY:HA3	2:G:1272:ALA:CB	2.32	0.60
2:H:174:GLY:H	2:H:517:GLY:HA3	1.67	0.60
2:H:272:PRO:O	2:H:276:LEU:HB2	2.01	0.60
2:H:663:ILE:HG21	3:H:2102:NAP:H1D	1.82	0.60
2:H:750:GLY:O	2:H:865:ILE:HA	2.00	0.60
2:I:380:ILE:HG13	2:I:380:ILE:O	2.02	0.60
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.36	0.60
2:I:1722:ALA:CB	2:I:1812:LEU:HD21	2.32	0.60
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.02	0.60
2:J:964:ARG:O	2:J:967:GLU:HB2	2.00	0.60
2:J:1795:SER:HB3	2:J:1799:LEU:HD12	1.81	0.60
2:K:606:ALA:HB2	2:K:811:MET:HG3	1.83	0.60
2:K:846:THR:HG22	2:K:856:THR:N	2.17	0.60
2:K:1564:SER:HB2	2:K:1653:LEU:H	1.67	0.60
2:L:290:VAL:HG22	2:L:490:LEU:HD13	1.83	0.60
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.65	0.60
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.65	0.60
1:A:862:GLY:O	1:A:865:LYS:HB2	2.02	0.60
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.99	0.60
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.00	0.60
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.84	0.60
1:D:1532:LYS:HE2	1:D:1598:VAL:HG11	1.84	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.84	0.60
1:E:1342:ARG:HB2	1:E:1345:SER:HB2	1.84	0.60
2:G:129:ILE:HD13	2:G:132:LYS:HE3	1.83	0.60
2:G:584:SER:HB3	2:G:1114:GLU:O	2.01	0.60
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.84	0.60
2:G:1564:SER:HB2	2:G:1653:LEU:H	1.67	0.60
2:G:1669:ALA:HB3	2:G:1679:LEU:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:824:THR:HB	2:H:829:LYS:HE3	1.83	0.60
2:H:2036:ILE:HG22	2:H:2037:GLY:H	1.65	0.60
2:I:613:VAL:HG23	2:I:635:TYR:CE1	2.37	0.60
2:I:661:ASN:HD21	4:I:2101:FMN:HN3	1.48	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:CA	2.31	0.60
2:I:1090:ILE:O	2:I:1094:HIS:HD2	1.84	0.60
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.84	0.60
2:J:117:ASN:OD1	2:J:561:ARG:HB2	2.02	0.60
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.83	0.60
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.83	0.60
2:J:794:GLY:O	2:J:804:PRO:HA	2.02	0.60
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.84	0.60
1:B:1446:GLU:O	1:B:1450:ILE:HG13	2.01	0.59
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.31	0.59
1:D:1451:LYS:HG2	1:D:1454:ARG:NH2	2.16	0.59
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.67	0.59
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.02	0.59
1:E:1307:PHE:HB3	1:E:1357:CYS:CB	2.32	0.59
2:G:170:TYR:CZ	2:G:507:PHE:HB3	2.37	0.59
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.84	0.59
2:H:1094:HIS:O	2:H:1098:LEU:HB2	2.02	0.59
2:I:347:PRO:HA	2:I:432:PHE:CD1	2.37	0.59
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.13	0.59
2:I:2036:ILE:CG2	2:I:2037:GLY:N	2.64	0.59
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.19	0.59
2:J:1593:SER:OG	2:J:1596:PHE:HB2	2.02	0.59
2:K:204:ILE:HG23	2:K:312:VAL:HG11	1.83	0.59
2:K:942:MET:HE2	2:K:955:LEU:HD13	1.82	0.59
2:K:1421:ARG:HG2	2:K:1421:ARG:O	2.01	0.59
2:K:1515:LEU:O	2:K:1523:ILE:HD12	2.01	0.59
2:K:1674:THR:HB	2:K:1676:GLU:HG3	1.84	0.59
2:L:410:ALA:HB1	2:L:414:LEU:HD12	1.83	0.59
2:L:596:ARG:HH22	2:L:1113:ILE:CD1	2.15	0.59
2:L:825:SER:HB2	2:L:1053:ILE:HG13	1.83	0.59
2:L:882:LYS:HB3	2:L:898:ARG:HH12	1.67	0.59
2:L:1171:TRP:CE3	2:L:1236:LEU:HD22	2.37	0.59
2:L:1232:VAL:CG1	2:L:1246:LEU:HD23	2.31	0.59
2:L:1612:THR:O	2:L:1616:VAL:HG12	2.02	0.59
1:A:571:LYS:O	1:A:575:ARG:HG2	2.02	0.59
1:A:683:THR:HB	1:A:714:PHE:HB3	1.84	0.59
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1032:MET:HE3	1:B:1165:PRO:HB3	1.83	0.59
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.84	0.59
1:F:943:VAL:CG2	2:L:1539:PRO:HG3	2.32	0.59
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.17	0.59
2:G:327:PRO:HD2	2:H:1338:ARG:NH2	2.17	0.59
2:G:440:HIS:HD2	2:G:497:ASP:O	1.85	0.59
2:G:938:MET:HE1	2:G:959:THR:HA	1.82	0.59
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.83	0.59
2:I:22:ARG:O	2:I:37:VAL:HG23	2.02	0.59
2:I:87:VAL:HG22	2:I:98:ASN:HB3	1.85	0.59
2:J:902:ILE:O	2:J:906:LEU:HB2	2.02	0.59
2:J:1207:THR:O	2:J:1215:THR:HA	2.01	0.59
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.25	0.59
2:J:1966:ARG:O	2:J:1970:VAL:HG23	2.01	0.59
2:K:57:PRO:CG	2:K:68:GLU:HG3	2.32	0.59
2:K:350:MET:HG3	2:K:435:ILE:HB	1.83	0.59
2:K:501:TRP:HE1	2:K:528:THR:CG2	2.09	0.59
2:K:731:ALA:HA	2:K:739:ILE:HD13	1.84	0.59
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.17	0.59
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.49	0.59
2:L:1722:ALA:CB	2:L:1812:LEU:HD21	2.32	0.59
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.27	0.59
1:A:1443:LEU:HD11	1:A:1470:ARG:HD2	1.84	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.83	0.59
1:B:42:GLU:OE1	2:H:1688:PRO:HB3	2.03	0.59
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.17	0.59
1:B:853:MET:HG2	1:B:856:ASN:HD22	1.67	0.59
1:B:1491:ASN:H	1:B:1491:ASN:HD22	1.50	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:HD1	1.68	0.59
1:D:11:TYR:O	1:D:15:VAL:HG23	2.02	0.59
1:E:1686:PRO:HB2	1:E:1713:PHE:CD1	2.37	0.59
1:F:569:LEU:O	1:F:573:VAL:HG23	2.02	0.59
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.86	0.59
2:G:24:LEU:HD12	2:G:37:VAL:HG21	1.83	0.59
2:G:1305:LEU:H	2:G:1305:LEU:HD12	1.67	0.59
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.59
2:H:747:ARG:NH1	2:H:780:SER:HB3	2.17	0.59
2:I:1517:LEU:HG	2:I:1523:ILE:HD11	1.84	0.59
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.03	0.59
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.83	0.59
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:472:THR:H	2:K:493:MET:HE3	1.66	0.59
2:L:768:ILE:O	2:L:774:ILE:HD12	2.01	0.59
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.80	0.59
1:A:636:TYR:CD1	1:A:888:ILE:HD11	2.37	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.89	0.59
1:B:1269:SER:O	1:D:1386:THR:HB	2.02	0.59
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.84	0.59
1:D:22:PHE:HE1	2:J:1867:MET:HG3	1.67	0.59
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.38	0.59
1:E:42:GLU:OE1	2:K:1688:PRO:HB3	2.02	0.59
1:E:862:GLY:O	1:E:865:LYS:HB2	2.01	0.59
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.03	0.59
2:G:606:ALA:HB2	2:G:811:MET:HG3	1.84	0.59
2:G:741:LEU:HG	2:G:741:LEU:O	2.02	0.59
2:H:94:ALA:HB1	2:H:97:THR:OG1	2.02	0.59
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.85	0.59
2:J:348:THR:HB	2:J:349:PRO:CD	2.32	0.59
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.85	0.59
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.32	0.59
2:J:1400:GLN:HG3	2:J:1448:ARG:HH12	1.68	0.59
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.01	0.59
2:K:685:VAL:CG2	2:K:1186:ARG:HH12	2.04	0.59
2:L:349:PRO:O	2:L:392:THR:HG22	2.02	0.59
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.17	0.59
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.38	0.59
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.38	0.59
1:B:947:ASP:O	1:B:951:LEU:HG	2.02	0.59
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.68	0.59
1:C:766:ALA:HA	1:C:769:ILE:HD12	1.83	0.59
1:C:1307:PHE:HB3	1:C:1357:CYS:CB	2.32	0.59
1:D:617:LEU:N	1:D:617:LEU:HD23	2.17	0.59
1:E:470:GLY:O	1:E:474:ILE:HG13	2.02	0.59
1:E:1581:LEU:HD23	1:E:1617:ILE:HG12	1.84	0.59
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.83	0.59
2:G:95:HIS:HB2	2:G:96:PRO:HD3	1.84	0.59
2:G:663:ILE:HG21	3:G:2102:NAP:H1D	1.84	0.59
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.85	0.59
2:G:1603:PRO:HG2	2:G:1642:MET:HE3	1.83	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.86	0.59
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.37	0.59
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2036:ILE:CG2	2:H:2037:GLY:N	2.64	0.59
2:I:686:PRO:HB3	2:I:1187:PHE:CE1	2.36	0.59
2:I:917:ARG:N	2:I:917:ARG:HD2	2.17	0.59
2:I:1266:HIS:NE2	2:I:1275:ARG:HD2	2.17	0.59
2:J:661:ASN:HD21	4:J:2101:FMN:HN3	1.50	0.59
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.66	0.59
2:J:1455:GLN:HB2	2:J:1551:ILE:CD1	2.32	0.59
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.85	0.59
2:L:962:PHE:O	2:L:966:VAL:HG23	2.03	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.16	0.59
2:L:1701:GLU:H	2:L:1704:MET:CE	2.15	0.59
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.85	0.59
1:A:947:ASP:O	1:A:951:LEU:HG	2.01	0.59
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.02	0.59
1:A:1207:TYR:CZ	1:A:1682:LYS:HD2	2.37	0.59
1:B:696:GLN:HG3	1:B:697:GLY:N	2.16	0.59
1:B:1120:LYS:HD3	1:B:1129:ILE:HG12	1.84	0.59
1:B:1700:GLN:O	1:B:1702:ARG:HG3	2.02	0.59
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.05	0.59
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.85	0.59
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.02	0.59
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.84	0.59
2:H:374:GLU:CA	2:H:377:HIS:CD2	2.77	0.59
2:H:1377:SER:HB3	2:H:1432:GLN:HB2	1.84	0.59
2:H:1700:GLN:HA	2:H:1704:MET:CE	2.30	0.59
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.01	0.59
2:I:129:ILE:HD13	2:I:132:LYS:HE3	1.84	0.59
2:I:1620:VAL:O	2:I:1624:ALA:HB3	2.03	0.59
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.33	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:J:1404:VAL:O	2:J:1445:THR:HA	2.02	0.59
2:J:1851:MET:HE2	2:J:1855:SER:HB3	1.85	0.59
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.37	0.59
2:K:747:ARG:NH1	2:K:780:SER:HB3	2.17	0.59
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.84	0.59
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.32	0.59
1:A:1095:GLN:O	1:A:1096:LEU:HD23	2.02	0.59
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.85	0.59
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.38	0.59
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.20	0.59
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:849:GLY:HA3	1:F:873:GLN:CG	2.33	0.59
1:F:862:GLY:O	1:F:865:LYS:HB2	2.02	0.59
1:F:1446:GLU:O	1:F:1450:ILE:HG13	2.03	0.59
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.02	0.59
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.33	0.59
2:H:298:ALA:CB	2:H:304:PHE:HA	2.32	0.59
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.62	0.59
2:H:1266:HIS:NE2	2:H:1275:ARG:HD2	2.18	0.59
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.37	0.59
2:J:350:MET:HG3	2:J:435:ILE:HB	1.85	0.59
2:J:380:ILE:O	2:J:380:ILE:HG13	2.03	0.59
2:J:635:TYR:CB	2:J:641:MET:HG3	2.32	0.59
2:J:942:MET:HE1	2:J:955:LEU:HB3	1.84	0.59
2:J:2036:ILE:HG22	2:J:2037:GLY:H	1.67	0.59
2:K:351:LEU:HD22	2:K:352:SER:N	2.17	0.59
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.84	0.59
2:K:1933:LEU:O	2:K:1989:LEU:HD21	2.03	0.59
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.80	0.59
2:L:1067:LEU:HB2	4:L:2101:FMN:HM71	1.85	0.59
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.84	0.59
2:L:1305:LEU:H	2:L:1305:LEU:HD12	1.65	0.59
1:A:427:ARG:CG	1:A:427:ARG:NH1	2.57	0.59
1:A:767:HIS:CE1	1:F:767:HIS:HE1	2.20	0.59
1:A:1079:ARG:HG2	1:A:1079:ARG:NH1	2.09	0.59
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.01	0.59
1:D:1700:GLN:O	1:D:1702:ARG:HG3	2.02	0.59
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.03	0.59
2:G:57:PRO:HG2	2:G:68:GLU:HG3	1.83	0.59
2:G:699:ILE:HD12	2:G:699:ILE:H	1.67	0.59
2:G:1007:LEU:HD12	2:G:1007:LEU:N	2.15	0.59
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.18	0.59
2:G:1551:ILE:HG22	2:G:1552:GLU:HG3	1.84	0.59
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.85	0.59
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.85	0.59
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.85	0.59
2:I:298:ALA:CB	2:I:304:PHE:HA	2.33	0.59
2:I:351:LEU:HD22	2:I:352:SER:N	2.18	0.59
2:I:420:PRO:HG3	2:I:847:TYR:CE1	2.38	0.59
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.37	0.59
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.37	0.59
2:K:1342:PHE:HE2	2:K:1391:VAL:CG2	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1454:MET:CE	2:K:1550:SER:HA	2.29	0.59
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.85	0.59
2:L:918:ASN:HB3	2:L:924:VAL:CG2	2.33	0.59
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.83	0.59
2:L:1454:MET:CE	2:L:1550:SER:HA	2.33	0.59
2:L:1851:MET:HE2	2:L:1855:SER:HB3	1.85	0.59
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.03	0.59
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.02	0.59
1:A:418:ILE:HA	1:A:462:THR:HB	1.84	0.59
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.38	0.59
1:A:849:GLY:HA3	1:A:873:GLN:CG	2.32	0.59
1:A:926:SER:O	1:A:930:GLN:HG2	2.02	0.59
1:A:987:MET:O	1:A:1490:GLY:HA3	2.03	0.59
1:B:339:GLN:O	1:B:343:ILE:HG13	2.02	0.59
1:B:415:TYR:O	1:B:419:PHE:HD1	1.85	0.59
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.38	0.59
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.67	0.59
1:C:427:ARG:NH1	1:C:492:ILE:HG23	2.10	0.59
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.84	0.59
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.84	0.59
1:C:1504:ARG:CG	1:C:1504:ARG:NH1	2.41	0.59
1:D:68:TYR:CD1	2:L:371:HIS:CD2	2.90	0.59
1:D:1672:GLY:HA3	1:D:1678:LEU:CD2	2.31	0.59
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	2.01	0.59
2:G:22:ARG:O	2:G:37:VAL:HG23	2.03	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.86	0.59
2:G:612:THR:O	2:G:612:THR:HG22	2.03	0.59
2:H:768:ILE:O	2:H:774:ILE:HD12	2.02	0.59
2:H:794:GLY:O	2:H:804:PRO:HA	2.03	0.59
2:I:747:ARG:NH1	2:I:780:SER:HB3	2.18	0.59
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.65	0.59
2:I:1007:LEU:H	2:I:1007:LEU:CD1	2.13	0.59
2:I:1481:ILE:HD12	2:I:1515:LEU:HD23	1.84	0.59
2:I:1674:THR:HB	2:I:1676:GLU:HG3	1.85	0.59
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.85	0.59
2:J:1380:TYR:CD2	2:J:1429:VAL:HG22	2.37	0.59
2:J:1881:TYR:CZ	2:J:2009:PHE:HE1	2.21	0.59
2:K:613:VAL:HG13	2:K:614:PRO:HD3	1.84	0.59
2:K:653:PRO:O	2:K:656:ARG:HB2	2.03	0.59
2:K:824:THR:HB	2:K:829:LYS:HE3	1.83	0.59
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.85	0.59
2:L:501:TRP:HE1	2:L:528:THR:CG2	2.09	0.59
2:L:1120:ILE:HD13	2:L:1173:HIS:CE1	2.37	0.59
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.37	0.59
1:A:883:LEU:HA	1:A:888:ILE:HD12	1.84	0.59
1:A:1121:ARG:NH1	1:E:1153:ALA:O	2.36	0.59
1:B:399:TYR:OH	1:B:692:THR:HG23	2.02	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.37	0.59
1:B:1691:ILE:HG22	1:B:1695:VAL:HG23	1.84	0.59
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.85	0.59
1:C:1269:SER:O	1:F:1386:THR:HB	2.02	0.59
1:C:1484:GLU:OE1	1:F:1488:SER:HB3	2.03	0.59
1:D:415:TYR:O	1:D:419:PHE:HD1	1.86	0.59
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.59
1:D:541:VAL:O	1:D:545:LEU:HG	2.03	0.59
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.84	0.59
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.84	0.59
1:F:40:ARG:NH2	1:F:72:THR:HG22	2.18	0.59
1:F:430:VAL:O	1:F:434:ILE:HG13	2.03	0.59
1:F:1207:TYR:CZ	1:F:1682:LYS:HD2	2.37	0.59
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.03	0.59
2:G:167:VAL:CG2	2:G:169:ILE:HG13	2.32	0.59
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.03	0.59
2:G:1009:ASN:O	2:G:1013:VAL:HG23	2.02	0.59
2:H:663:ILE:H	2:H:663:ILE:CD1	2.15	0.59
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.33	0.59
2:H:1851:MET:HE2	2:H:1855:SER:HB3	1.84	0.59
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.03	0.59
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.79	0.59
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.84	0.59
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.37	0.59
2:J:606:ALA:HB2	2:J:811:MET:HG3	1.84	0.59
2:K:372:LEU:HD11	2:K:397:SER:HB2	1.83	0.59
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.59
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.38	0.59
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.66	0.59
2:L:472:THR:H	2:L:493:MET:HE3	1.66	0.59
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.02	0.59
1:A:41:THR:HG21	2:G:1691:ALA:HB2	1.85	0.58
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.85	0.58
1:A:1401:LEU:HD22	1:E:1697:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:PRO:HD2	1:B:443:LEU:HD12	1.85	0.58
1:B:620:LYS:HA	1:B:625:ASN:O	2.02	0.58
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.84	0.58
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.85	0.58
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.65	0.58
1:E:501:ASP:OD2	1:E:503:ARG:HB2	2.03	0.58
1:E:1443:LEU:HD11	1:E:1470:ARG:HD2	1.85	0.58
1:E:1446:GLU:O	1:E:1450:ILE:HG13	2.03	0.58
1:F:6:GLU:HA	2:L:2050:ILE:HD11	1.85	0.58
1:F:696:GLN:HG3	1:F:697:GLY:N	2.17	0.58
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.31	0.58
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.85	0.58
2:G:731:ALA:HA	2:G:739:ILE:HD13	1.85	0.58
2:G:846:THR:HG22	2:G:856:THR:N	2.18	0.58
2:G:1094:HIS:O	2:G:1098:LEU:HB2	2.03	0.58
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.33	0.58
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.03	0.58
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.85	0.58
2:H:992:ALA:O	2:H:995:ARG:HB3	2.02	0.58
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.38	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.66	0.58
2:I:743:TRP:HZ2	2:I:757:PHE:HA	1.68	0.58
2:I:930:THR:HA	2:I:1007:LEU:HA	1.85	0.58
2:I:1380:TYR:CD2	2:I:1429:VAL:HG22	2.38	0.58
2:I:1880:ASN:HB3	2:I:1881:TYR:CD1	2.38	0.58
2:J:942:MET:CE	2:J:955:LEU:HB3	2.32	0.58
2:J:1709:TYR:HD2	2:J:1709:TYR:C	2.06	0.58
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.02	0.58
2:J:1944:ASN:HA	2:J:1993:PHE:CD2	2.37	0.58
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.33	0.58
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.38	0.58
2:L:606:ALA:HB2	2:L:811:MET:HG3	1.83	0.58
2:L:616:ASP:OD1	2:L:616:ASP:N	2.35	0.58
2:L:1867:MET:O	2:L:2003:VAL:HG21	2.02	0.58
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.85	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.23	0.58
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.38	0.58
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.85	0.58
1:C:1120:LYS:HD3	1:C:1129:ILE:HG12	1.85	0.58
1:D:1580:VAL:O	1:D:1617:ILE:HD11	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1038:HIS:O	1:E:1048:SER:HA	2.03	0.58
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.18	0.58
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.03	0.58
2:G:351:LEU:HD22	2:G:352:SER:N	2.17	0.58
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.84	0.58
2:G:1538:ASN:HB3	2:G:1541:ILE:HG22	1.85	0.58
2:G:1709:TYR:HD2	2:G:1709:TYR:C	2.06	0.58
2:I:348:THR:HB	2:I:349:PRO:CD	2.33	0.58
2:I:1171:TRP:CZ3	2:I:1236:LEU:HB2	2.38	0.58
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.68	0.58
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.38	0.58
2:J:1436:ARG:NH2	2:J:1602:LEU:CD1	2.67	0.58
2:J:1620:VAL:O	2:J:1624:ALA:HB3	2.03	0.58
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.13	0.58
2:K:917:ARG:HH11	2:K:917:ARG:HG2	1.66	0.58
2:K:1612:THR:O	2:K:1616:VAL:HG12	2.03	0.58
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	1.84	0.58
2:K:1722:ALA:CB	2:K:1812:LEU:HD21	2.33	0.58
2:L:610:PRO:HD2	4:L:2101:FMN:C6	2.24	0.58
2:L:876:TRP:CD1	2:L:876:TRP:C	2.77	0.58
2:L:952:ASP:OD1	2:L:953:PRO:HD2	2.04	0.58
2:L:1265:TYR:O	2:L:1267:PRO:HD3	2.03	0.58
1:C:828:TRP:HE1	1:C:838:THR:HA	1.67	0.58
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.85	0.58
2:G:94:ALA:HB1	2:G:97:THR:OG1	2.03	0.58
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.85	0.58
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.34	0.58
2:G:1421:ARG:O	2:G:1421:ARG:HG2	2.02	0.58
2:G:2036:ILE:HG22	2:G:2037:GLY:H	1.67	0.58
2:H:380:ILE:O	2:H:380:ILE:HG13	2.03	0.58
2:I:2005:PHE:HB3	2:I:2010:LEU:HD11	1.83	0.58
2:J:57:PRO:HG2	2:J:68:GLU:HG3	1.84	0.58
2:J:1094:HIS:O	2:J:1098:LEU:HB2	2.02	0.58
2:K:298:ALA:CB	2:K:304:PHE:HA	2.32	0.58
2:L:1436:ARG:NH2	2:L:1602:LEU:CD1	2.66	0.58
1:F:470:GLY:O	1:F:474:ILE:HG13	2.04	0.58
1:F:1107:GLU:HG3	1:F:1108:PRO:CD	2.29	0.58
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.69	0.58
2:G:596:ARG:HH22	2:G:1113:ILE:CD1	2.16	0.58
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.33	0.58
2:H:43:PHE:HZ	2:I:42:HIS:NE2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:290:VAL:HG22	2:H:490:LEU:HD13	1.85	0.58
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.43	0.58
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.38	0.58
2:J:462:ALA:H	2:J:483:ASP:HA	1.68	0.58
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.85	0.58
2:J:1317:ASN:HB3	2:J:1320:ALA:HB3	1.85	0.58
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.85	0.58
2:J:2044:THR:HG22	2:J:2046:LYS:H	1.68	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.86	0.58
2:K:1370:LEU:HD12	2:K:1373:LEU:HD13	1.85	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
2:L:1709:TYR:HD2	2:L:1709:TYR:C	2.07	0.58
1:B:12:THR:O	1:B:16:GLU:HG2	2.03	0.58
1:B:350:ASP:HB3	1:B:353:ALA:HB2	1.84	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.86	0.58
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.03	0.58
1:C:569:LEU:O	1:C:573:VAL:HG23	2.03	0.58
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.03	0.58
1:C:1488:SER:HB3	1:F:1484:GLU:OE1	2.03	0.58
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.69	0.58
1:D:70:ALA:O	2:L:403:LEU:HD12	2.03	0.58
1:D:470:GLY:O	1:D:474:ILE:HG13	2.03	0.58
1:D:632:LEU:HA	1:D:635:ILE:CG2	2.33	0.58
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.84	0.58
1:F:911:LEU:O	1:F:915:MET:HG3	2.04	0.58
2:G:289:ILE:HG12	2:G:493:MET:CE	2.32	0.58
2:G:670:MET:HB2	2:G:674:ILE:HD12	1.84	0.58
2:G:882:LYS:HB3	2:G:898:ARG:HH12	1.69	0.58
2:G:1637:VAL:HG11	2:G:1679:LEU:CD1	2.32	0.58
2:H:351:LEU:HD22	2:H:352:SER:N	2.18	0.58
2:I:756:ASP:HA	2:I:843:TRP:HH2	1.69	0.58
2:J:485:ASP:O	2:J:488:PRO:HD2	2.03	0.58
2:J:670:MET:HB2	2:J:674:ILE:HD12	1.86	0.58
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.39	0.58
2:K:349:PRO:O	2:K:392:THR:HG22	2.03	0.58
2:K:529:ASN:HD22	2:K:552:VAL:HG23	1.68	0.58
2:K:798:THR:HA	2:K:802:TYR:O	2.02	0.58
2:L:305:ALA:O	2:L:309:LYS:HD3	2.04	0.58
2:L:348:THR:HB	2:L:349:PRO:CD	2.34	0.58
2:L:1120:ILE:HG21	2:L:1167:ASN:HA	1.85	0.58
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.86	0.58
2:L:1701:GLU:H	2:L:1704:MET:HE3	1.68	0.58
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.85	0.58
1:D:339:GLN:O	1:D:343:ILE:HG13	2.04	0.58
1:D:418:ILE:HA	1:D:462:THR:HB	1.85	0.58
1:D:427:ARG:NH1	1:D:492:ILE:HG23	2.11	0.58
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.85	0.58
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.38	0.58
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.33	0.58
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.04	0.58
2:G:635:TYR:CB	2:G:641:MET:HG3	2.33	0.58
2:G:917:ARG:N	2:G:917:ARG:HD2	2.17	0.58
2:G:978:SER:O	2:G:981:GLN:HG2	2.03	0.58
2:H:1194:ARG:HH21	2:H:1601:ASN:CG	2.05	0.58
2:H:1515:LEU:O	2:H:1523:ILE:HD12	2.03	0.58
2:H:1674:THR:HB	2:H:1676:GLU:HG3	1.84	0.58
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.38	0.58
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.33	0.58
2:I:917:ARG:HH11	2:I:917:ARG:HG2	1.67	0.58
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.04	0.58
2:J:440:HIS:HD2	2:J:497:ASP:O	1.87	0.58
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.86	0.58
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.38	0.58
2:K:102:LEU:O	2:K:106:LEU:HG	2.03	0.58
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.85	0.58
2:K:786:GLU:H	2:K:786:GLU:CD	2.06	0.58
2:K:918:ASN:HB3	2:K:924:VAL:CG2	2.33	0.58
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.03	0.58
2:K:1538:ASN:HB3	2:K:1541:ILE:HG22	1.85	0.58
2:L:549:ASN:HD22	2:L:550:THR:N	2.02	0.58
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.03	0.58
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.86	0.58
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.68	0.58
2:L:2021:LEU:O	2:L:2025:ILE:HG13	2.03	0.58
1:A:1001:GLU:O	1:A:1007:ASN:HA	2.04	0.58
1:A:1491:ASN:HD22	1:A:1491:ASN:H	1.52	0.58
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.02	0.58
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	1.84	0.58
1:B:1443:LEU:HD11	1:B:1470:ARG:HD2	1.85	0.58
1:C:859:VAL:HG11	1:C:915:MET:HA	1.84	0.58
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.17	0.58
2:G:272:PRO:O	2:G:276:LEU:HB2	2.03	0.58
2:G:350:MET:HG3	2:G:435:ILE:HB	1.84	0.58
2:G:868:LEU:O	2:G:870:THR:HG23	2.03	0.58
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.04	0.58
2:G:1674:THR:HB	2:G:1676:GLU:HG3	1.85	0.58
2:G:2005:PHE:HB3	2:G:2010:LEU:HD11	1.85	0.58
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.85	0.58
2:H:917:ARG:HH11	2:H:917:ARG:HG2	1.65	0.58
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.03	0.58
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.02	0.58
2:I:846:THR:HG22	2:I:856:THR:N	2.19	0.58
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.33	0.58
2:I:934:VAL:O	2:I:938:MET:HG3	2.04	0.58
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.85	0.58
2:I:1616:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.58
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.85	0.58
2:K:1007:LEU:H	2:K:1007:LEU:CD1	2.15	0.58
2:K:1048:TRP:HE1	2:K:1049:GLN:HE21	1.50	0.58
2:K:1067:LEU:HB2	4:K:2101:FMN:HM71	1.85	0.58
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.26	0.58
2:L:35:PHE:HZ	2:L:104:LEU:HB3	1.69	0.58
2:L:289:ILE:HG12	2:L:493:MET:CE	2.32	0.58
2:L:420:PRO:HG3	2:L:847:TYR:CD1	2.38	0.58
2:L:1481:ILE:HD12	2:L:1515:LEU:HD23	1.85	0.58
1:A:628:TYR:CD1	1:A:628:TYR:C	2.77	0.58
1:A:1532:LYS:HE2	1:A:1598:VAL:HG11	1.85	0.58
1:B:636:TYR:CD1	1:B:888:ILE:HD11	2.39	0.58
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.18	0.58
1:C:433:CYS:O	1:C:437:MET:HG3	2.03	0.58
1:C:1448:ALA:CA	1:C:1451:LYS:HE3	2.32	0.58
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.04	0.58
1:E:613:PRO:C	1:E:615:LEU:H	2.05	0.58
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.86	0.58
1:F:427:ARG:HG3	1:F:427:ARG:NH1	2.01	0.58
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.39	0.58
2:G:1083:ILE:O	2:G:1086:ILE:HG13	2.04	0.58
2:H:785:SER:HA	2:H:788:THR:HB	1.86	0.58
2:H:876:TRP:CD1	2:H:876:TRP:C	2.76	0.58
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.17	0.58
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.04	0.58
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.39	0.58
2:J:859:SER:CB	2:J:863:GLU:HG3	2.34	0.58
2:K:158:LEU:HA	2:K:566:VAL:HG21	1.85	0.58
2:K:596:ARG:HH22	2:K:1113:ILE:CD1	2.16	0.58
2:K:609:THR:HG22	2:K:633:GLY:HA3	1.85	0.58
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.06	0.58
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.34	0.58
2:K:1637:VAL:CG1	2:K:1679:LEU:HD22	2.34	0.58
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.58
2:L:268:LEU:HD12	2:L:275:LEU:HD11	1.86	0.58
2:L:789:TYR:HB3	2:L:790:PRO:HD3	1.84	0.58
2:L:1944:ASN:HA	2:L:1993:PHE:CD2	2.38	0.58
1:A:1542:LEU:HD22	1:A:1547:ARG:HD3	1.84	0.58
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.85	0.58
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.58
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.85	0.58
1:E:30:GLU:HB2	2:K:2045:ALA:HB1	1.85	0.58
1:E:399:TYR:OH	1:E:692:THR:HG23	2.03	0.58
1:E:847:THR:OG1	1:E:876:MET:HG3	2.03	0.58
1:E:924:GLU:OE1	2:K:1461:PRO:HG2	2.04	0.58
1:E:1711:LEU:O	1:E:1712:LYS:HG3	2.04	0.58
2:G:876:TRP:C	2:G:876:TRP:CD1	2.77	0.58
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.04	0.58
2:G:1457:HIS:ND1	2:G:1487:THR:HG22	2.19	0.58
2:G:1933:LEU:O	2:G:1989:LEU:HD21	2.03	0.58
2:H:653:PRO:O	2:H:656:ARG:HB2	2.04	0.58
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.80	0.58
2:H:868:LEU:O	2:H:870:THR:HG23	2.04	0.58
2:J:152:LYS:HB2	2:J:154:TYR:CE1	2.39	0.58
2:J:613:VAL:HG23	2:J:635:TYR:CE1	2.39	0.58
2:J:616:ASP:N	2:J:616:ASP:OD1	2.36	0.58
2:J:1232:VAL:CG1	2:J:1246:LEU:HD23	2.34	0.58
2:J:1616:VAL:HG11	2:J:1679:LEU:CD1	2.32	0.58
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.51	0.58
2:K:1384:PRO:HB3	2:K:1829:ARG:HH12	1.67	0.58
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.38	0.58
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.38	0.58
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.38	0.58
2:L:1334:ALA:HA	2:L:1341:ASP:HB2	1.84	0.58
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.85	0.58
1:B:1514:ILE:O	1:B:1547:ARG:NH1	2.36	0.58
1:D:1164:ILE:HD12	1:D:1355:GLN:HG3	1.85	0.58
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.34	0.58
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.34	0.58
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.51	0.58
2:H:486:ILE:HG23	2:H:490:LEU:HG	1.86	0.58
2:H:832:ILE:HA	2:H:868:LEU:HD11	1.85	0.58
2:H:1200:ARG:HD3	2:H:1200:ARG:N	2.10	0.58
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.17	0.58
2:I:796:TRP:CH2	2:I:805:MET:HE1	2.39	0.58
2:I:827:GLN:NE2	2:I:827:GLN:H	2.01	0.58
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.03	0.58
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.87	0.58
2:J:1305:LEU:H	2:J:1305:LEU:HD12	1.69	0.58
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.39	0.58
2:K:1246:LEU:HD11	2:K:1261:PHE:HE1	1.69	0.58
2:L:610:PRO:O	2:L:613:VAL:HG12	2.04	0.58
2:L:1436:ARG:HH22	2:L:1602:LEU:HD13	1.67	0.58
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.86	0.58
1:A:535:TYR:CE2	1:A:610:GLU:HB3	2.38	0.57
1:A:746:PHE:HB3	3:A:1901:NAP:H52N	1.86	0.57
1:B:418:ILE:HA	1:B:462:THR:HB	1.85	0.57
1:B:1118:GLU:OE2	1:D:1154:LEU:HD21	2.03	0.57
1:B:1142:LEU:HD12	1:B:1142:LEU:N	2.18	0.57
1:D:533:SER:HB2	1:D:612:ILE:HB	1.86	0.57
1:E:1083:PRO:HD2	1:E:1084:GLU:OE2	2.03	0.57
1:F:613:PRO:CG	1:F:633:THR:HG21	2.29	0.57
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.04	0.57
2:G:532:LYS:HD3	2:G:537:VAL:HG21	1.86	0.57
2:G:1340:LYS:CE	2:I:376:ARG:HH22	2.17	0.57
2:H:204:ILE:HG23	2:H:312:VAL:HG11	1.85	0.57
2:H:882:LYS:HB3	2:H:898:ARG:NH1	2.19	0.57
2:H:1067:LEU:HB2	4:H:2101:FMN:HM71	1.85	0.57
2:H:1380:TYR:CD2	2:H:1429:VAL:HG22	2.39	0.57
2:H:1669:ALA:HB3	2:H:1679:LEU:HB2	1.86	0.57
2:I:170:TYR:CZ	2:I:507:PHE:HB3	2.39	0.57
2:I:272:PRO:O	2:I:276:LEU:HB2	2.03	0.57
2:I:485:ASP:O	2:I:488:PRO:HD2	2.02	0.57
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.44	0.57
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:824:THR:HB	2:J:829:LYS:HE3	1.86	0.57
2:J:2036:ILE:CG2	2:J:2037:GLY:N	2.66	0.57
2:K:616:ASP:N	2:K:616:ASP:OD1	2.36	0.57
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.19	0.57
2:K:1380:TYR:CD2	2:K:1429:VAL:HG22	2.39	0.57
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.04	0.57
2:L:1947:LYS:HG2	2:L:1993:PHE:CD1	2.39	0.57
1:A:767:HIS:CE1	1:F:767:HIS:CE1	2.92	0.57
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.85	0.57
1:B:586:GLN:C	1:E:538:ARG:NH2	2.57	0.57
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.86	0.57
1:B:1100:VAL:HG21	1:B:1150:ILE:CD1	2.34	0.57
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	1.85	0.57
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.39	0.57
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.87	0.57
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.03	0.57
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.53	0.57
1:F:397:ARG:CG	1:F:397:ARG:NH1	2.46	0.57
1:F:1038:HIS:O	1:F:1048:SER:HA	2.04	0.57
2:G:174:GLY:H	2:G:517:GLY:HA3	1.69	0.57
2:G:190:TYR:CD1	2:G:201:ILE:HD13	2.39	0.57
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.16	0.57
2:G:789:TYR:HB3	2:G:790:PRO:HD3	1.85	0.57
2:H:618:VAL:O	2:H:622:MET:HG3	2.04	0.57
2:H:1593:SER:OG	2:H:1596:PHE:HB2	2.04	0.57
2:I:305:ALA:O	2:I:309:LYS:HD3	2.04	0.57
2:I:486:ILE:HG23	2:I:490:LEU:HG	1.86	0.57
2:J:26:LEU:O	2:J:32:GLU:HA	2.04	0.57
2:J:204:ILE:HG23	2:J:312:VAL:HG11	1.85	0.57
2:J:618:VAL:O	2:J:622:MET:HG3	2.05	0.57
2:J:917:ARG:HD3	2:J:937:ARG:NH2	2.19	0.57
2:J:1007:LEU:H	2:J:1007:LEU:CD1	2.15	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.86	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.03	0.57
2:K:875:PHE:O	2:K:878:GLU:HB2	2.03	0.57
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.04	0.57
2:K:2062:THR:HG22	2:K:2064:SER:N	2.19	0.57
2:L:374:GLU:CA	2:L:377:HIS:CD2	2.77	0.57
2:L:582:LYS:HG3	2:L:1110:VAL:HG11	1.87	0.57
2:L:843:TRP:CD1	2:L:843:TRP:C	2.77	0.57
2:L:871:ARG:CZ	2:L:909:ASP:HB3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.19	0.57
1:A:1337:PRO:HA	1:A:1340:MET:HG3	1.87	0.57
1:B:828:TRP:HE1	1:B:838:THR:HA	1.69	0.57
1:C:427:ARG:HH11	1:C:492:ILE:HG12	1.69	0.57
1:C:562:SER:CB	1:D:551:LEU:HD21	2.32	0.57
1:D:869:ARG:O	1:D:903:GLY:HA3	2.04	0.57
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.03	0.57
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.40	0.57
1:E:696:GLN:HG3	1:E:697:GLY:N	2.18	0.57
1:E:1448:ALA:HA	1:E:1451:LYS:CE	2.32	0.57
1:F:948:HIS:O	1:F:952:TYR:HD2	1.86	0.57
2:G:756:ASP:HA	2:G:843:TRP:HH2	1.69	0.57
2:G:1067:LEU:HB2	4:G:2101:FMN:HM71	1.85	0.57
2:H:193:TYR:CD1	2:H:263:ILE:HD13	2.39	0.57
2:H:606:ALA:HB2	2:H:811:MET:HG3	1.86	0.57
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.39	0.57
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.86	0.57
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.03	0.57
2:I:596:ARG:HH22	2:I:1113:ILE:CD1	2.17	0.57
2:I:918:ASN:HB3	2:I:924:VAL:CG2	2.34	0.57
2:I:1265:TYR:O	2:I:1267:PRO:HD3	2.05	0.57
2:I:1436:ARG:NH2	2:I:1602:LEU:CD1	2.67	0.57
2:I:1669:ALA:HB3	2:I:1679:LEU:HB2	1.86	0.57
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.85	0.57
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.39	0.57
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.85	0.57
2:K:1142:ILE:HG13	2:K:1209:PRO:CG	2.33	0.57
2:K:1709:TYR:HD2	2:K:1709:TYR:C	2.08	0.57
2:L:663:ILE:HG21	3:L:2102:NAP:H1D	1.86	0.57
2:L:1246:LEU:HD11	2:L:1261:PHE:HE1	1.70	0.57
2:L:1380:TYR:CD2	2:L:1429:VAL:HG22	2.39	0.57
2:L:1880:ASN:HB3	2:L:1881:TYR:CD1	2.39	0.57
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.68	0.57
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.40	0.57
1:E:506:ILE:HD13	1:E:922:ILE:HG22	1.85	0.57
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.40	0.57
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.69	0.57
1:F:405:TRP:CZ3	1:F:1609:SER:HB3	2.39	0.57
1:F:418:ILE:HA	1:F:462:THR:HB	1.85	0.57
2:H:610:PRO:O	2:H:613:VAL:HG12	2.03	0.57
2:H:616:ASP:N	2:H:616:ASP:OD1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1334:ALA:HA	2:H:1341:ASP:HB2	1.87	0.57
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.85	0.57
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.15	0.57
2:J:894:GLU:O	2:J:897:LYS:HG2	2.03	0.57
2:J:1266:HIS:NE2	2:J:1275:ARG:HD2	2.19	0.57
2:K:152:LYS:HB2	2:K:154:TYR:CE1	2.40	0.57
2:K:1120:ILE:CD1	2:K:1173:HIS:CE1	2.86	0.57
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.68	0.57
2:L:298:ALA:CB	2:L:304:PHE:HA	2.34	0.57
2:L:361:VAL:O	2:L:365:ILE:HG13	2.03	0.57
2:L:524:ILE:HA	2:L:527:LEU:HD12	1.86	0.57
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.39	0.57
2:L:1674:THR:HB	2:L:1676:GLU:HG3	1.86	0.57
1:A:433:CYS:O	1:A:437:MET:HG3	2.04	0.57
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.05	0.57
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.87	0.57
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	1.85	0.57
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.40	0.57
1:E:350:ASP:HB3	1:E:353:ALA:HB2	1.85	0.57
1:E:524:LYS:O	1:E:527:ALA:N	2.37	0.57
1:E:948:HIS:O	1:E:952:TYR:HD2	1.87	0.57
1:E:959:PRO:HB3	2:K:972:SER:HA	1.87	0.57
2:G:388:ASN:HD22	2:G:388:ASN:C	2.06	0.57
2:G:1171:TRP:CD1	2:G:1172:ARG:N	2.72	0.57
2:G:1383:VAL:HG23	2:G:1428:TYR:CE1	2.40	0.57
2:H:1538:ASN:HB3	2:H:1541:ILE:HG22	1.86	0.57
2:I:361:VAL:O	2:I:365:ILE:HG13	2.05	0.57
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.87	0.57
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.40	0.57
2:J:1203:TYR:HB3	2:J:1220:ARG:HB2	1.87	0.57
2:K:745:GLY:HA3	2:K:757:PHE:HB3	1.85	0.57
2:K:825:SER:HB2	2:K:1053:ILE:HG13	1.86	0.57
2:K:834:ASP:O	2:K:836:PRO:HD3	2.04	0.57
2:K:978:SER:O	2:K:981:GLN:HG2	2.04	0.57
2:L:197:VAL:HG12	2:L:201:ILE:HG13	1.86	0.57
1:A:501:ASP:OD2	1:A:503:ARG:HB2	2.03	0.57
1:C:42:GLU:OE1	2:I:1688:PRO:HB3	2.04	0.57
1:C:1267:LEU:HD11	1:C:1303:LEU:HD12	1.85	0.57
1:D:452:ILE:HD12	1:D:467:LYS:HA	1.87	0.57
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.68	0.57
2:H:756:ASP:HA	2:H:843:TRP:HH2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:834:ASP:O	2:H:836:PRO:HD3	2.04	0.57
2:I:616:ASP:OD1	2:I:616:ASP:N	2.38	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.04	0.57
2:I:894:GLU:O	2:I:897:LYS:HG2	2.05	0.57
2:J:875:PHE:O	2:J:878:GLU:HB2	2.04	0.57
2:J:1171:TRP:CZ3	2:J:1236:LEU:HB2	2.40	0.57
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.04	0.57
2:K:209:GLN:O	2:K:213:ARG:HG3	2.05	0.57
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.57	0.57
2:L:261:TYR:CD1	2:L:295:ILE:HG12	2.39	0.57
2:L:902:ILE:O	2:L:906:LEU:HB2	2.03	0.57
2:L:1370:LEU:HA	2:L:1435:TYR:CE2	2.40	0.57
1:A:557:ARG:O	1:F:557:ARG:HD2	2.05	0.57
1:B:963:LEU:HD23	1:B:1023:GLU:HB3	1.86	0.57
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.57
1:C:569:LEU:HD22	1:D:544:ASP:HB3	1.87	0.57
1:C:1107:GLU:HG3	1:C:1108:PRO:CD	2.31	0.57
1:D:1448:ALA:CA	1:D:1451:LYS:HE3	2.32	0.57
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.35	0.57
1:F:501:ASP:OD2	1:F:503:ARG:HB2	2.04	0.57
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.18	0.57
2:G:1481:ILE:HD12	2:G:1515:LEU:HD23	1.87	0.57
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.85	0.57
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.40	0.57
2:H:532:LYS:HD3	2:H:537:VAL:HG21	1.86	0.57
2:H:731:ALA:HA	2:H:739:ILE:HD13	1.87	0.57
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.35	0.57
2:H:911:GLN:HG3	2:H:1064:THR:HA	1.87	0.57
2:H:1009:ASN:O	2:H:1013:VAL:HG23	2.04	0.57
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.86	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.39	0.57
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.18	0.57
2:K:221:TYR:CE2	2:K:225:LEU:HD22	2.39	0.57
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.87	0.57
2:K:1317:ASN:HB3	2:K:1320:ALA:HB3	1.86	0.57
2:K:1701:GLU:H	2:K:1704:MET:HE3	1.68	0.57
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.03	0.57
2:K:1944:ASN:HA	2:K:1993:PHE:CD2	2.40	0.57
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.87	0.57
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.86	0.57
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:684:THR:HG21	1:A:691:VAL:HG11	1.86	0.57
1:A:875:GLU:O	1:A:878:PHE:HB3	2.04	0.57
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.20	0.57
1:E:31:THR:HG23	2:K:2040:ILE:HG21	1.86	0.57
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.35	0.57
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.87	0.57
2:H:170:TYR:CZ	2:H:507:PHE:HB3	2.39	0.57
2:H:1194:ARG:NH1	2:H:1194:ARG:CG	2.54	0.57
2:H:1564:SER:HB2	2:H:1653:LEU:H	1.69	0.57
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.04	0.57
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.69	0.57
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.20	0.57
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	1.87	0.57
2:K:1009:ASN:O	2:K:1013:VAL:HG23	2.05	0.57
2:K:1176:PHE:CE1	2:K:1192:LEU:HD13	2.40	0.57
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.04	0.57
2:L:618:VAL:O	2:L:622:MET:HG3	2.05	0.57
1:A:551:LEU:C	1:A:551:LEU:HD23	2.25	0.57
1:A:948:HIS:O	1:A:952:TYR:HD2	1.88	0.57
1:B:9:LEU:HB2	2:H:2050:ILE:HD11	1.86	0.57
1:B:847:THR:OG1	1:B:876:MET:HG3	2.04	0.57
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.86	0.57
1:D:948:HIS:O	1:D:952:TYR:HD2	1.88	0.57
1:E:469:LEU:O	1:E:472:GLN:HB3	2.05	0.57
1:E:746:PHE:CE1	1:E:800:PRO:HG3	2.40	0.57
1:E:1260:ALA:O	1:E:1264:MET:HG3	2.05	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB3	1.85	0.57
1:F:399:TYR:OH	1:F:692:THR:HG23	2.04	0.57
1:F:628:TYR:OH	1:F:630:LYS:HE2	2.05	0.57
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.40	0.57
2:G:1880:ASN:HB3	2:G:1881:TYR:CD1	2.40	0.57
2:H:349:PRO:O	2:H:392:THR:HG22	2.05	0.57
2:H:670:MET:HB2	2:H:674:ILE:HD12	1.86	0.57
2:H:843:TRP:C	2:H:843:TRP:CD1	2.78	0.57
2:H:1944:ASN:HA	2:H:1993:PHE:CD2	2.40	0.57
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.33	0.57
2:I:825:SER:HB2	2:I:1053:ILE:HG13	1.86	0.57
2:I:882:LYS:HB3	2:I:898:ARG:HH12	1.70	0.57
2:I:1334:ALA:HA	2:I:1341:ASP:HB2	1.87	0.57
2:J:170:TYR:CZ	2:J:507:PHE:HB3	2.40	0.57
2:J:1142:ILE:HG13	2:J:1209:PRO:CG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.39	0.57
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.57
2:K:396:ILE:H	2:K:396:ILE:HD12	1.68	0.57
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.05	0.57
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	1.86	0.57
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.70	0.57
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.87	0.57
1:B:94:PRO:HD3	2:H:1559:ASN:ND2	2.19	0.57
1:B:1207:TYR:CZ	1:B:1682:LYS:HD2	2.39	0.57
1:C:869:ARG:O	1:C:903:GLY:HA3	2.05	0.57
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.38	0.57
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.35	0.57
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.78	0.57
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.19	0.57
1:F:1547:ARG:HG2	1:F:1604:TYR:CD1	2.40	0.57
2:G:1405:ILE:HA	2:G:1445:THR:OG1	2.04	0.57
2:G:1709:TYR:C	2:G:1709:TYR:CD2	2.77	0.57
2:H:348:THR:HB	2:H:349:PRO:CD	2.35	0.57
2:H:462:ALA:HB2	2:H:481:LEU:HB2	1.87	0.57
2:H:752:HIS:NE2	2:H:856:THR:HG22	2.19	0.57
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.57
2:H:1231:THR:CG2	2:H:1595:VAL:HG11	2.35	0.57
2:H:1411:LYS:HE3	2:H:1441:ASP:OD2	2.05	0.57
2:H:1481:ILE:HD12	2:H:1515:LEU:HD23	1.86	0.57
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.87	0.57
2:J:663:ILE:HG21	3:J:2102:NAP:H1D	1.86	0.57
2:J:1517:LEU:HG	2:J:1523:ILE:HD11	1.87	0.57
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.40	0.57
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.86	0.57
2:K:1048:TRP:CD2	2:K:1049:GLN:HG2	2.40	0.57
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.87	0.57
2:L:834:ASP:O	2:L:836:PRO:HD3	2.05	0.57
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.26	0.56
1:C:636:TYR:CD1	1:C:888:ILE:HD11	2.40	0.56
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.67	0.56
1:E:418:ILE:HA	1:E:462:THR:HB	1.86	0.56
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.87	0.56
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.05	0.56
2:G:167:VAL:HG23	2:G:169:ILE:HG13	1.88	0.56
2:H:485:ASP:O	2:H:488:PRO:HD2	2.05	0.56
2:H:918:ASN:HB3	2:H:924:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.87	0.56
2:I:608:MET:HE3	4:I:2101:FMN:C8	2.35	0.56
2:I:911:GLN:HG3	2:I:1064:THR:HA	1.85	0.56
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.85	0.56
2:J:524:ILE:HA	2:J:527:LEU:HD12	1.87	0.56
2:J:610:PRO:HD2	4:J:2101:FMN:C6	2.24	0.56
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.87	0.56
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.34	0.56
2:K:409:LYS:HB3	2:K:428:PHE:CZ	2.40	0.56
2:K:1157:VAL:HG22	2:K:1198:PRO:HD2	1.87	0.56
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.40	0.56
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.69	0.56
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.05	0.56
2:L:485:ASP:O	2:L:488:PRO:HD2	2.04	0.56
2:L:635:TYR:CB	2:L:641:MET:HG3	2.34	0.56
2:L:917:ARG:N	2:L:917:ARG:HD2	2.19	0.56
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.78	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.20	0.56
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.24	0.56
1:C:350:ASP:HB3	1:C:353:ALA:HB2	1.87	0.56
1:C:1427:LEU:HD11	1:F:1435:TRP:HD1	1.69	0.56
1:D:613:PRO:C	1:D:615:LEU:H	2.07	0.56
1:D:1107:GLU:HG3	1:D:1108:PRO:CD	2.33	0.56
1:E:40:ARG:NH2	1:E:72:THR:HG22	2.19	0.56
1:E:849:GLY:HA3	1:E:873:GLN:CG	2.34	0.56
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.40	0.56
2:G:305:ALA:O	2:G:309:LYS:HD3	2.04	0.56
2:G:608:MET:HE3	4:G:2101:FMN:C8	2.35	0.56
2:H:83:VAL:O	2:H:87:VAL:HG23	2.05	0.56
2:H:930:THR:HA	2:H:1007:LEU:HA	1.85	0.56
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.04	0.56
2:I:44:GLN:HG3	2:I:101:VAL:HG21	1.87	0.56
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.40	0.56
2:K:388:ASN:C	2:K:388:ASN:HD22	2.09	0.56
2:K:663:ILE:HG21	3:K:2102:NAP:H1D	1.86	0.56
2:K:750:GLY:O	2:K:865:ILE:HA	2.06	0.56
2:L:204:ILE:HG23	2:L:312:VAL:HG11	1.86	0.56
2:L:462:ALA:HB2	2:L:481:LEU:HB2	1.88	0.56
2:L:706:ILE:HG22	2:L:707:GLN:HG2	1.87	0.56
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.86	0.56
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.87	0.56
1:B:904:GLY:HA2	1:B:906:GLN:OE1	2.06	0.56
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.86	0.56
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	2.04	0.56
1:C:849:GLY:HA3	1:C:873:GLN:CG	2.36	0.56
1:C:868:VAL:HG11	1:C:908:ILE:CD1	2.34	0.56
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.35	0.56
1:D:24:MET:HB3	2:J:2043:VAL:HG12	1.86	0.56
1:D:746:PHE:HB3	3:D:1901:NAP:H52N	1.87	0.56
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.35	0.56
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	2.03	0.56
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.20	0.56
1:D:1443:LEU:HD11	1:D:1470:ARG:HD2	1.87	0.56
1:F:469:LEU:O	1:F:472:GLN:HB3	2.05	0.56
1:F:746:PHE:HB3	3:F:1901:NAP:H52N	1.87	0.56
1:F:847:THR:OG1	1:F:876:MET:HG3	2.06	0.56
1:F:1672:GLY:HA3	1:F:1678:LEU:CD2	2.31	0.56
2:G:349:PRO:O	2:G:392:THR:HG22	2.04	0.56
2:G:462:ALA:H	2:G:483:ASP:HA	1.69	0.56
2:G:768:ILE:O	2:G:774:ILE:HD12	2.05	0.56
2:G:785:SER:HA	2:G:788:THR:HB	1.87	0.56
2:G:911:GLN:HG3	2:G:1064:THR:HA	1.87	0.56
2:G:1171:TRP:CE3	2:G:1236:LEU:HD22	2.39	0.56
2:G:1878:ARG:HE	2:G:1986:PRO:HG3	1.70	0.56
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.88	0.56
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.20	0.56
2:H:43:PHE:CE2	2:I:22:ARG:CB	2.87	0.56
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.40	0.56
2:H:1171:TRP:CE3	2:H:1236:LEU:HD22	2.39	0.56
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.05	0.56
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.53	0.56
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.20	0.56
2:H:1963:GLU:HA	2:H:1966:ARG:HB3	1.88	0.56
2:I:606:ALA:HB2	2:I:811:MET:HG3	1.85	0.56
2:I:635:TYR:CB	2:I:641:MET:HG3	2.34	0.56
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.20	0.56
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	1.87	0.56
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.60	0.56
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.86	0.56
2:J:378:ILE:HD11	2:J:398:LEU:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:486:ILE:HG23	2:J:490:LEU:HG	1.87	0.56
2:J:612:THR:HG22	2:J:612:THR:O	2.05	0.56
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.35	0.56
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.88	0.56
2:J:1334:ALA:HA	2:J:1341:ASP:HB2	1.87	0.56
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.87	0.56
2:K:268:LEU:HD12	2:K:275:LEU:HD11	1.87	0.56
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.35	0.56
2:K:882:LYS:HB3	2:K:898:ARG:NH1	2.21	0.56
2:K:1804:GLN:HB3	2:K:1861:PHE:CE1	2.40	0.56
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.20	0.56
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.35	0.56
2:L:196:PHE:H	2:L:196:PHE:HD2	1.53	0.56
2:L:290:VAL:HG13	2:L:314:LEU:HD23	1.87	0.56
2:L:380:ILE:HG13	2:L:380:ILE:O	2.05	0.56
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.40	0.56
2:L:731:ALA:HA	2:L:739:ILE:HD13	1.88	0.56
2:L:756:ASP:HA	2:L:843:TRP:HH2	1.70	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:HD2	1.69	0.56
1:A:911:LEU:O	1:A:915:MET:HG3	2.06	0.56
1:B:408:GLN:HG2	1:B:1610:ARG:NH1	2.19	0.56
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.40	0.56
1:B:862:GLY:O	1:B:865:LYS:HB2	2.06	0.56
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.06	0.56
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.58	0.56
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.36	0.56
1:E:1448:ALA:CA	1:E:1451:LYS:HE3	2.34	0.56
1:F:1307:PHE:HB3	1:F:1357:CYS:CB	2.36	0.56
2:G:613:VAL:HG13	2:G:614:PRO:CD	2.35	0.56
2:G:843:TRP:CD1	2:G:843:TRP:C	2.77	0.56
2:G:1607:THR:HB	2:G:1643:VAL:O	2.05	0.56
2:G:1610:MET:HA	2:G:1610:MET:CE	2.34	0.56
2:H:372:LEU:HD11	2:H:397:SER:HB2	1.87	0.56
2:H:635:TYR:CB	2:H:641:MET:HG3	2.35	0.56
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.05	0.56
2:H:1203:TYR:HB3	2:H:1220:ARG:HB2	1.88	0.56
2:H:1207:THR:O	2:H:1215:THR:HA	2.04	0.56
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.05	0.56
2:I:209:GLN:O	2:I:213:ARG:HG3	2.05	0.56
2:J:731:ALA:HA	2:J:739:ILE:HD13	1.88	0.56
2:K:378:ILE:HD11	2:K:398:LEU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:451:ILE:O	2:K:455:VAL:HG23	2.05	0.56
2:K:524:ILE:HA	2:K:527:LEU:HD12	1.86	0.56
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.41	0.56
2:K:700:GLU:CD	2:K:700:GLU:H	2.08	0.56
2:K:992:ALA:O	2:K:995:ARG:HB3	2.05	0.56
2:K:1171:TRP:CZ3	2:K:1236:LEU:HB2	2.40	0.56
2:K:1880:ASN:HB3	2:K:1881:TYR:CD1	2.40	0.56
2:L:1207:THR:O	2:L:1215:THR:HA	2.05	0.56
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.88	0.56
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.20	0.56
1:A:843:VAL:HG22	1:A:843:VAL:O	2.05	0.56
1:A:1132:ILE:HD12	1:A:1137:GLN:HB2	1.87	0.56
1:A:1386:THR:HG22	1:A:1629:GLN:HE21	1.70	0.56
1:C:408:GLN:HG2	1:C:1610:ARG:NH1	2.20	0.56
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.40	0.56
1:D:1565:PRO:O	1:D:1567:GLY:N	2.39	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.27	0.56
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.40	0.56
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.87	0.56
2:G:1701:GLU:H	2:G:1704:MET:HE3	1.68	0.56
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.20	0.56
2:H:221:TYR:CE2	2:H:225:LEU:HD22	2.40	0.56
2:H:1246:LEU:HD11	2:H:1261:PHE:HE1	1.70	0.56
2:H:1607:THR:HB	2:H:1643:VAL:O	2.05	0.56
2:I:876:TRP:CD1	2:I:876:TRP:C	2.79	0.56
2:I:1171:TRP:CE3	2:I:1236:LEU:HD22	2.40	0.56
2:J:611:THR:HG21	2:J:817:MET:HE2	1.86	0.56
2:J:663:ILE:H	2:J:663:ILE:CD1	2.12	0.56
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.86	0.56
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.36	0.56
2:J:1083:ILE:O	2:J:1086:ILE:HG13	2.05	0.56
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.39	0.56
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.85	0.56
2:K:752:HIS:CE1	2:K:856:THR:HG21	2.40	0.56
2:L:653:PRO:O	2:L:656:ARG:HB2	2.05	0.56
2:L:699:ILE:H	2:L:699:ILE:CD1	2.19	0.56
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.40	0.56
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.86	0.56
2:L:1266:HIS:NE2	2:L:1275:ARG:HD2	2.20	0.56
1:A:1307:PHE:HB3	1:A:1357:CYS:HB3	1.86	0.56
1:B:20:TYR:CE2	2:H:2062:THR:HG23	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:GLY:O	1:B:474:ILE:HG13	2.05	0.56
1:C:504:GLY:O	1:C:926:SER:HB2	2.06	0.56
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.70	0.56
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.35	0.56
1:D:571:LYS:O	1:D:575:ARG:HG2	2.05	0.56
1:E:911:LEU:O	1:E:915:MET:HG3	2.06	0.56
1:F:888:ILE:HA	1:F:891:LEU:HD12	1.87	0.56
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.40	0.56
2:G:616:ASP:OD1	2:G:616:ASP:N	2.37	0.56
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.58	0.56
2:G:1207:THR:O	2:G:1215:THR:HA	2.05	0.56
2:G:1265:TYR:O	2:G:1267:PRO:HD3	2.05	0.56
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.87	0.56
2:H:859:SER:CB	2:H:863:GLU:HG3	2.36	0.56
2:H:1880:ASN:HB3	2:H:1881:TYR:CD1	2.40	0.56
2:I:261:TYR:CD1	2:I:295:ILE:HG12	2.41	0.56
2:I:440:HIS:HD2	2:I:497:ASP:O	1.87	0.56
2:I:532:LYS:HD3	2:I:537:VAL:HG21	1.88	0.56
2:I:735:PRO:HA	2:I:773:ASN:OD1	2.06	0.56
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.06	0.56
2:I:1607:THR:HB	2:I:1643:VAL:O	2.06	0.56
2:J:138:ARG:HB2	2:J:192:THR:HA	1.87	0.56
2:J:159:PHE:HA	2:J:162:ALA:HB3	1.87	0.56
2:J:861:MET:HB2	2:J:863:GLU:HG2	1.87	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.21	0.56
2:K:290:VAL:HG13	2:K:314:LEU:HD23	1.88	0.56
2:K:843:TRP:CD1	2:K:843:TRP:C	2.79	0.56
2:K:1194:ARG:NH1	2:K:1194:ARG:CG	2.52	0.56
2:L:462:ALA:H	2:L:483:ASP:HA	1.69	0.56
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.52	0.56
1:A:12:THR:O	1:A:16:GLU:HG2	2.06	0.56
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.41	0.56
1:A:755:GLU:HB2	1:A:757:ASP:HB2	1.88	0.56
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.40	0.56
1:B:948:HIS:O	1:B:952:TYR:HD2	1.89	0.56
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.06	0.56
1:B:1443:LEU:HD22	1:B:1474:ILE:HD11	1.88	0.56
1:C:498:THR:HG21	1:C:858:LEU:CA	2.31	0.56
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.41	0.56
1:C:673:LEU:O	1:C:678:ALA:HB3	2.06	0.56
1:E:1207:TYR:CE2	1:E:1682:LYS:HD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1100:VAL:HG21	1:F:1150:ILE:CD1	2.36	0.56
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.40	0.56
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.87	0.56
2:H:613:VAL:HG23	2:H:635:TYR:CE1	2.41	0.56
2:H:1142:ILE:HG13	2:H:1209:PRO:CG	2.35	0.56
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.06	0.56
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.35	0.56
2:I:350:MET:HG3	2:I:435:ILE:HB	1.88	0.56
2:I:611:THR:HG21	2:I:817:MET:HE2	1.88	0.56
2:I:768:ILE:O	2:I:774:ILE:HD12	2.05	0.56
2:I:1142:ILE:HG13	2:I:1209:PRO:CG	2.36	0.56
2:I:1729:ASN:O	2:I:1757:ILE:HG23	2.06	0.56
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.05	0.56
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.05	0.56
2:J:489:GLU:O	2:J:493:MET:HG3	2.05	0.56
2:J:1342:PHE:HE2	2:J:1391:VAL:CG2	2.19	0.56
2:J:1420:LYS:HG2	2:J:1425:PRO:CA	2.35	0.56
2:K:35:PHE:HZ	2:K:104:LEU:HB3	1.70	0.56
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.40	0.56
2:L:992:ALA:O	2:L:995:ARG:HB3	2.05	0.56
2:L:1176:PHE:CE1	2:L:1192:LEU:HD13	2.41	0.56
2:L:1421:ARG:O	2:L:1421:ARG:HG2	2.04	0.56
1:A:989:ASN:H	1:A:1491:ASN:ND2	1.94	0.56
1:A:1153:ALA:O	1:E:1121:ARG:NH1	2.39	0.56
1:B:983:GLN:HB3	1:B:1418:ILE:HG21	1.86	0.56
1:C:847:THR:OG1	1:C:876:MET:HG3	2.06	0.56
1:C:1207:TYR:CZ	1:C:1682:LYS:HD2	2.41	0.56
1:C:1337:PRO:HA	1:C:1340:MET:HG3	1.88	0.56
1:C:1386:THR:HB	1:F:1269:SER:O	2.05	0.56
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.88	0.56
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.39	0.56
1:E:628:TYR:C	1:E:628:TYR:CD1	2.78	0.56
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.19	0.56
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.88	0.56
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.71	0.56
1:F:628:TYR:CD1	1:F:628:TYR:C	2.79	0.56
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.41	0.56
2:G:197:VAL:HG12	2:G:201:ILE:HG13	1.87	0.56
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.69	0.56
2:G:1653:LEU:CD2	2:G:1667:VAL:HG13	2.36	0.56
2:H:350:MET:HG3	2:H:435:ILE:HB	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1497:ARG:O	2:H:1505:SER:HB3	2.05	0.56
2:H:1709:TYR:HD2	2:H:1709:TYR:C	2.08	0.56
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.88	0.56
2:I:1207:THR:O	2:I:1215:THR:HA	2.06	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.87	0.56
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.71	0.56
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.87	0.56
2:J:843:TRP:C	2:J:843:TRP:CD1	2.78	0.56
2:J:1370:LEU:HA	2:J:1435:TYR:CE2	2.41	0.56
2:K:595:SER:HB3	2:K:602:PRO:CD	2.35	0.56
2:K:756:ASP:HA	2:K:843:TRP:HH2	1.71	0.56
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.21	0.56
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.05	0.56
2:K:1944:ASN:HA	2:K:1993:PHE:HD2	1.71	0.56
2:K:1946:LEU:HB3	2:K:1951:ILE:HD11	1.88	0.56
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.68	0.56
2:L:917:ARG:HD3	2:L:937:ARG:CZ	2.36	0.56
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.36	0.56
1:A:88:ILE:HG21	2:G:1821:MET:CE	2.36	0.56
1:A:498:THR:HG21	1:A:858:LEU:CA	2.34	0.56
1:B:673:LEU:O	1:B:678:ALA:HB3	2.06	0.56
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.66	0.56
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.71	0.56
1:C:1017:TYR:N	1:C:1017:TYR:HD1	2.04	0.56
1:D:1120:LYS:HD3	1:D:1129:ILE:HG12	1.87	0.56
1:E:828:TRP:HE1	1:E:838:THR:HA	1.71	0.56
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.86	0.56
1:F:1425:LEU:HD21	1:F:1429:ARG:NH2	2.20	0.56
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.36	0.56
2:G:663:ILE:H	2:G:663:ILE:CD1	2.14	0.56
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.86	0.56
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.06	0.56
2:H:298:ALA:HB2	2:H:304:PHE:HA	1.88	0.56
2:H:745:GLY:HA3	2:H:757:PHE:HB3	1.86	0.56
2:H:1265:TYR:O	2:H:1267:PRO:HD3	2.05	0.56
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.21	0.56
2:H:1944:ASN:HA	2:H:1993:PHE:HD2	1.70	0.56
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.71	0.56
2:I:1009:ASN:O	2:I:1013:VAL:HG23	2.05	0.56
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.36	0.56
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:745:GLY:HA3	2:J:757:PHE:HB3	1.86	0.56
2:J:911:GLN:HG3	2:J:1064:THR:HA	1.87	0.56
2:J:1880:ASN:HB3	2:J:1881:TYR:CD1	2.40	0.56
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.33	0.56
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.21	0.56
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	2.94	0.56
2:K:604:MET:HE1	2:K:811:MET:HB2	1.87	0.56
2:K:1383:VAL:HG23	2:K:1428:TYR:CE1	2.40	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD13	1.70	0.56
2:L:228:LEU:O	2:L:232:HIS:HD2	1.88	0.56
2:L:699:ILE:HD12	2:L:699:ILE:N	2.19	0.56
2:L:745:GLY:HA3	2:L:757:PHE:HB3	1.87	0.56
2:L:875:PHE:O	2:L:878:GLU:HB2	2.06	0.56
2:L:1234:ILE:HG12	2:L:1244:LEU:HD13	1.87	0.56
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.35	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.38	0.56
1:A:1700:GLN:O	1:A:1702:ARG:HG3	2.06	0.56
1:C:948:HIS:O	1:C:952:TYR:HD2	1.89	0.56
1:C:1443:LEU:HD11	1:C:1470:ARG:HD2	1.88	0.56
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.70	0.56
1:D:613:PRO:O	1:D:615:LEU:N	2.37	0.56
1:D:1307:PHE:HB3	1:D:1357:CYS:CB	2.36	0.56
1:E:22:PHE:O	2:K:2006:HIS:HA	2.06	0.56
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.86	0.56
2:H:197:VAL:HG12	2:H:201:ILE:HG13	1.87	0.56
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.41	0.56
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.71	0.56
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.88	0.56
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.41	0.56
2:I:83:VAL:O	2:I:87:VAL:HG23	2.05	0.56
2:I:731:ALA:HA	2:I:739:ILE:HD13	1.88	0.56
2:I:785:SER:HA	2:I:788:THR:HB	1.88	0.56
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.58	0.56
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.88	0.56
2:J:1701:GLU:H	2:J:1704:MET:HE3	1.70	0.56
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.87	0.56
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.87	0.56
2:L:505:THR:O	2:L:505:THR:HG22	2.06	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.41	0.56
2:L:1342:PHE:HE2	2:L:1391:VAL:CG2	2.19	0.56
1:A:1078:ILE:HG23	1:A:1352:MET:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.05	0.55
1:A:1451:LYS:HE2	1:A:1463:GLU:OE2	2.06	0.55
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.55
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.88	0.55
1:D:959:PRO:HG2	2:J:974:GLU:HG3	1.88	0.55
1:D:1260:ALA:O	1:D:1264:MET:HG3	2.06	0.55
2:G:329:THR:HG22	2:H:1331:THR:O	2.05	0.55
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.87	0.55
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.46	0.55
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.70	0.55
2:G:1851:MET:HE2	2:G:1855:SER:HB3	1.87	0.55
2:H:21:LEU:HA	2:H:37:VAL:O	2.05	0.55
2:H:818:THR:HG22	2:H:829:LYS:CB	2.35	0.55
2:H:820:LYS:HG3	2:H:821:GLU:HG2	1.88	0.55
2:H:1083:ILE:O	2:H:1086:ILE:HG13	2.06	0.55
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.88	0.55
2:H:1436:ARG:NH2	2:H:1602:LEU:HD11	2.22	0.55
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.05	0.55
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.36	0.55
2:J:605:VAL:CB	2:J:628:ILE:HG13	2.33	0.55
2:J:1067:LEU:HB2	4:J:2101:FMN:C7M	2.35	0.55
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.06	0.55
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	1.88	0.55
2:K:663:ILE:H	2:K:663:ILE:CD1	2.13	0.55
2:K:796:TRP:HH2	2:K:805:MET:HE1	1.69	0.55
2:L:152:LYS:HB2	2:L:154:TYR:CE1	2.41	0.55
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.59	0.55
2:L:1411:LYS:HE3	2:L:1441:ASP:OD2	2.06	0.55
1:A:452:ILE:HD12	1:A:467:LYS:HA	1.87	0.55
1:A:1447:VAL:CG2	1:A:1467:LEU:HD21	2.35	0.55
1:A:1448:ALA:HA	1:A:1451:LYS:CE	2.34	0.55
1:B:501:ASP:OD2	1:B:503:ARG:HB2	2.07	0.55
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	2.04	0.55
1:B:1672:GLY:HA3	1:B:1678:LEU:CD2	2.29	0.55
1:C:1491:ASN:H	1:C:1491:ASN:HD22	1.54	0.55
1:C:1532:LYS:HE2	1:C:1598:VAL:HG11	1.88	0.55
1:D:399:TYR:OH	1:D:692:THR:HG23	2.06	0.55
1:D:498:THR:HG21	1:D:858:LEU:CA	2.34	0.55
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.89	0.55
2:G:524:ILE:HA	2:G:527:LEU:HD12	1.87	0.55
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1048:TRP:CD2	2:G:1049:GLN:HG2	2.39	0.55
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.20	0.55
2:H:289:ILE:HG12	2:H:493:MET:CE	2.35	0.55
2:H:930:THR:CG2	2:H:933:GLU:HG3	2.35	0.55
2:I:102:LEU:O	2:I:106:LEU:HG	2.06	0.55
2:I:372:LEU:HD11	2:I:397:SER:HB2	1.88	0.55
2:I:1046:SER:O	2:I:1049:GLN:HG3	2.06	0.55
2:J:372:LEU:HD11	2:J:397:SER:HB2	1.88	0.55
2:J:1265:TYR:O	2:J:1267:PRO:HD3	2.05	0.55
2:K:172:ILE:HG22	2:K:514:VAL:O	2.07	0.55
2:K:656:ARG:HG2	2:K:656:ARG:NH1	2.21	0.55
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.06	0.55
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.41	0.55
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.22	0.55
2:L:462:ALA:N	2:L:483:ASP:HA	2.21	0.55
2:L:618:VAL:HG11	2:L:648:ILE:HD11	1.87	0.55
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.72	0.55
2:L:1009:ASN:O	2:L:1013:VAL:HG23	2.07	0.55
1:B:985:ARG:HB3	1:B:1422:ARG:HH22	1.71	0.55
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.06	0.55
1:C:336:PHE:O	1:C:339:GLN:HB2	2.05	0.55
1:C:535:TYR:OH	1:C:630:LYS:HE3	2.06	0.55
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.87	0.55
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.88	0.55
1:C:1700:GLN:O	1:C:1702:ARG:HG3	2.06	0.55
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.06	0.55
1:D:875:GLU:O	1:D:878:PHE:HB3	2.06	0.55
1:D:888:ILE:HA	1:D:891:LEU:HD12	1.88	0.55
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.71	0.55
1:F:1267:LEU:HD11	1:F:1303:LEU:HD12	1.88	0.55
2:G:1411:LYS:HE3	2:G:1441:ASP:OD2	2.07	0.55
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.74	0.55
2:H:261:TYR:CD1	2:H:295:ILE:HG12	2.41	0.55
2:H:460:ILE:O	2:H:486:ILE:HB	2.07	0.55
2:H:611:THR:HG21	2:H:817:MET:HE2	1.87	0.55
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.35	0.55
2:H:861:MET:HB2	2:H:863:GLU:HG2	1.89	0.55
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.38	0.55
2:I:26:LEU:O	2:I:32:GLU:HA	2.06	0.55
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.41	0.55
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1342:PHE:HE2	2:I:1391:VAL:CG2	2.20	0.55
2:I:1885:ALA:HB2	2:I:1998:LEU:HD21	1.87	0.55
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.37	0.55
2:J:451:ILE:O	2:J:455:VAL:HG23	2.06	0.55
2:J:1171:TRP:CE3	2:J:1236:LEU:HD22	2.41	0.55
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.36	0.55
2:K:1334:ALA:HA	2:K:1341:ASP:HB2	1.89	0.55
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.06	0.55
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.41	0.55
2:L:1890:ARG:HB3	2:L:1994:ALA:HB2	1.88	0.55
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.87	0.55
1:A:1164:ILE:HD12	1:A:1355:GLN:HG3	1.87	0.55
1:A:1183:VAL:HG13	1:A:1252:GLU:OE1	2.07	0.55
1:B:498:THR:HG21	1:B:858:LEU:CA	2.35	0.55
1:B:1001:GLU:HG2	1:B:1008:ALA:HB2	1.89	0.55
1:B:1495:ARG:HG2	1:B:1495:ARG:HH11	1.71	0.55
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.07	0.55
1:C:1317:GLU:HB3	1:F:1250:LEU:HD22	1.89	0.55
1:C:1672:GLY:HA3	1:C:1678:LEU:CD2	2.33	0.55
1:D:868:VAL:CG1	1:D:908:ILE:HD11	2.35	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
1:E:987:MET:O	1:E:1490:GLY:HA3	2.07	0.55
1:E:1113:LYS:HG3	1:E:1138:TYR:CE2	2.41	0.55
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.71	0.55
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.34	0.55
1:F:843:VAL:HG22	1:F:843:VAL:O	2.05	0.55
2:G:102:LEU:O	2:G:106:LEU:HG	2.07	0.55
2:G:604:MET:HE1	2:G:811:MET:HB2	1.89	0.55
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.70	0.55
2:H:462:ALA:N	2:H:483:ASP:HA	2.21	0.55
2:I:349:PRO:O	2:I:392:THR:HG22	2.05	0.55
2:I:1028:VAL:HG13	2:I:1030:PHE:CD2	2.42	0.55
2:I:1420:LYS:HG2	2:I:1425:PRO:CA	2.35	0.55
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.42	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.37	0.55
2:J:261:TYR:CD1	2:J:295:ILE:HG12	2.42	0.55
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.88	0.55
2:J:1194:ARG:NH1	2:J:1194:ARG:CG	2.51	0.55
2:J:1383:VAL:HG23	2:J:1428:TYR:CE1	2.39	0.55
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.78	0.55
2:K:532:LYS:HD3	2:K:537:VAL:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1709:TYR:C	2:K:1709:TYR:CD2	2.79	0.55
2:L:529:ASN:HD22	2:L:552:VAL:HG23	1.72	0.55
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.89	0.55
2:L:1224:GLN:OE1	2:L:1224:GLN:HA	2.07	0.55
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.41	0.55
2:L:1445:THR:CG2	2:L:1498:PHE:HB2	2.37	0.55
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.37	0.55
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.25	0.55
1:B:868:VAL:HG11	1:B:908:ILE:CD1	2.35	0.55
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.89	0.55
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.22	0.55
1:C:527:ALA:HB2	1:C:637:LEU:HD22	1.89	0.55
1:C:1499:ARG:CD	1:F:1476:ARG:HH12	2.11	0.55
1:D:1207:TYR:CZ	1:D:1682:LYS:HD2	2.41	0.55
1:E:1447:VAL:CG2	1:E:1467:LEU:HD21	2.32	0.55
1:F:1120:LYS:HD3	1:F:1129:ILE:HG12	1.88	0.55
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.39	0.55
2:G:818:THR:HG22	2:G:829:LYS:CB	2.32	0.55
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.36	0.55
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.37	0.55
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.37	0.55
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.37	0.55
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.88	0.55
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.41	0.55
2:I:745:GLY:HA3	2:I:757:PHE:HB3	1.88	0.55
2:I:1436:ARG:NH2	2:I:1602:LEU:HD11	2.22	0.55
2:J:290:VAL:HG13	2:J:314:LEU:HD23	1.87	0.55
2:J:1338:ARG:HH21	2:L:327:PRO:CD	2.19	0.55
2:J:2062:THR:HG22	2:J:2064:SER:N	2.20	0.55
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.88	0.55
2:K:609:THR:CG2	2:K:633:GLY:HA3	2.36	0.55
2:L:378:ILE:HD11	2:L:398:LEU:HA	1.89	0.55
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.36	0.55
2:L:776:LEU:HG	2:L:807:PHE:CE2	2.42	0.55
1:B:1451:LYS:HA	1:B:1454:ARG:NH2	2.20	0.55
1:C:1164:ILE:HD12	1:C:1355:GLN:HG3	1.88	0.55
1:D:768:ARG:HA	1:D:772:THR:OG1	2.07	0.55
1:E:1129:ILE:HA	1:E:1139:THR:O	2.07	0.55
1:E:1363:MET:HE3	1:E:1368:ALA:HB2	1.88	0.55
1:F:565:GLN:O	1:F:565:GLN:HG2	2.07	0.55
1:F:1113:LYS:HG3	1:F:1138:TYR:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:462:ALA:N	2:G:483:ASP:HA	2.21	0.55
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.89	0.55
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.07	0.55
2:H:361:VAL:O	2:H:365:ILE:HG13	2.07	0.55
2:H:935:VAL:HG11	2:H:997:LEU:HD21	1.88	0.55
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.87	0.55
2:J:462:ALA:N	2:J:483:ASP:HA	2.20	0.55
2:J:1393:ASP:HB3	2:J:1395:LEU:HD21	1.88	0.55
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.72	0.55
2:J:1982:ALA:O	2:J:1984:PRO:HD3	2.07	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG3	1.89	0.55
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.22	0.55
2:L:917:ARG:HH11	2:L:917:ARG:HG2	1.65	0.55
1:B:36:LEU:HD22	1:B:61:LEU:HD21	1.89	0.55
1:B:1160:VAL:C	1:B:1352:MET:HE1	2.27	0.55
1:B:1494:TRP:CG	1:B:1505:GLY:HA3	2.42	0.55
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.90	0.55
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.06	0.55
1:D:965:TYR:OH	1:D:1199:LEU:HD22	2.06	0.55
2:G:21:LEU:HD22	2:G:36:LEU:HG	1.87	0.55
2:G:35:PHE:HD2	2:G:37:VAL:HG22	1.72	0.55
2:G:261:TYR:CD1	2:G:295:ILE:HG12	2.40	0.55
2:G:268:LEU:HD12	2:G:275:LEU:HD11	1.89	0.55
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.05	0.55
2:H:462:ALA:H	2:H:483:ASP:HA	1.72	0.55
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.21	0.55
2:H:1885:ALA:HB2	2:H:1998:LEU:HD21	1.88	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.37	0.55
2:I:843:TRP:CD1	2:I:843:TRP:C	2.79	0.55
2:I:930:THR:CG2	2:I:933:GLU:HG3	2.37	0.55
2:J:388:ASN:HD22	2:J:388:ASN:C	2.09	0.55
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.42	0.55
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.06	0.55
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.22	0.55
2:K:271:GLU:H	2:K:274:GLU:HG3	1.71	0.55
2:K:486:ILE:HG23	2:K:490:LEU:HG	1.89	0.55
2:K:931:TYR:O	2:K:935:VAL:HG12	2.06	0.55
2:K:1468:ARG:NH1	2:K:1475:LEU:HD22	2.22	0.55
2:K:1982:ALA:O	2:K:1984:PRO:HD3	2.07	0.55
2:L:26:LEU:O	2:L:32:GLU:HA	2.07	0.55
2:L:315:LEU:HA	2:L:318:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:TYR:O	1:A:15:VAL:HG23	2.06	0.55
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.42	0.55
1:B:1580:VAL:O	1:B:1617:ILE:HD11	2.07	0.55
1:C:526:MET:HE3	1:C:614:PHE:HB2	1.87	0.55
1:D:401:SER:O	1:D:405:TRP:CD1	2.60	0.55
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.88	0.55
1:E:1032:MET:HE2	1:E:1165:PRO:HB3	1.88	0.55
1:E:1337:PRO:HA	1:E:1340:MET:HG3	1.89	0.55
1:E:1640:LYS:HG3	1:E:1641:TYR:N	2.22	0.55
1:F:350:ASP:HB3	1:F:353:ALA:HB2	1.87	0.55
1:F:427:ARG:HH12	1:F:492:ILE:CG2	2.04	0.55
1:F:1386:THR:HG22	1:F:1629:GLN:HE21	1.71	0.55
1:F:1447:VAL:CG2	1:F:1467:LEU:HD21	2.35	0.55
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.37	0.55
2:H:102:LEU:O	2:H:106:LEU:HG	2.07	0.55
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.89	0.55
2:H:1610:MET:HA	2:H:1610:MET:CE	2.37	0.55
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.41	0.55
2:I:1750:GLY:O	2:I:1755:LYS:HE3	2.06	0.55
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.53	0.55
2:J:272:PRO:HD3	2:J:301:TRP:CE2	2.42	0.55
2:J:349:PRO:O	2:J:392:THR:HG22	2.07	0.55
2:J:604:MET:HE1	2:J:811:MET:HB2	1.89	0.55
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.42	0.55
2:J:1845:VAL:CG2	2:J:1856:LEU:HD22	2.37	0.55
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.06	0.55
2:L:197:VAL:HA	2:L:262:MET:HE1	1.89	0.55
2:L:256:VAL:O	2:L:260:HIS:CD2	2.60	0.55
2:L:350:MET:HG3	2:L:435:ILE:HB	1.87	0.55
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.42	0.55
2:L:1083:ILE:O	2:L:1086:ILE:HG13	2.06	0.55
2:L:1410:GLY:HA3	2:L:1436:ARG:HA	1.89	0.55
2:L:1885:ALA:HB2	2:L:1998:LEU:HD21	1.89	0.55
1:A:985:ARG:HB3	1:A:1422:ARG:HH22	1.72	0.55
1:A:1260:ALA:O	1:A:1264:MET:HG3	2.06	0.55
1:A:1640:LYS:HG3	1:A:1641:TYR:HD1	1.70	0.55
1:B:799:LEU:HD12	1:B:821:LEU:HB3	1.89	0.55
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.35	0.55
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.87	0.55
1:E:21:GLN:O	2:K:2006:HIS:HD2	1.90	0.55
1:E:1386:THR:HG22	1:E:1629:GLN:HE21	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:759:ILE:HG12	1:F:813:LEU:HD23	1.89	0.55
2:G:942:MET:HE1	2:G:955:LEU:HB3	1.87	0.55
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.55
2:H:1709:TYR:C	2:H:1709:TYR:CD2	2.80	0.55
2:H:1890:ARG:HB3	2:H:1994:ALA:HB2	1.89	0.55
2:I:268:LEU:HD12	2:I:275:LEU:HD11	1.89	0.55
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.19	0.55
2:I:1083:ILE:O	2:I:1086:ILE:HG13	2.06	0.55
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.22	0.55
2:I:1335:PHE:CZ	2:I:1629:ILE:HD13	2.42	0.55
2:I:1404:VAL:HG22	2:I:1413:VAL:HG22	1.89	0.55
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.07	0.55
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.55	0.55
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.37	0.55
2:J:775:VAL:HG12	2:J:777:VAL:HG23	1.89	0.55
2:J:1246:LEU:HD11	2:J:1261:PHE:HE1	1.70	0.55
2:K:83:VAL:O	2:K:87:VAL:HG23	2.07	0.55
2:K:1420:LYS:HG2	2:K:1425:PRO:CA	2.37	0.55
2:K:1603:PRO:HG2	2:K:1642:MET:HE3	1.88	0.55
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.06	0.55
2:L:221:TYR:CE2	2:L:225:LEU:HD22	2.42	0.55
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.22	0.55
2:L:1180:VAL:HG11	2:L:1187:PHE:CG	2.42	0.55
2:L:1457:HIS:ND1	2:L:1487:THR:HG22	2.22	0.55
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.07	0.55
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.37	0.55
1:A:1250:LEU:HD22	1:E:1317:GLU:HB3	1.88	0.55
1:B:1142:LEU:HD12	1:B:1142:LEU:H	1.72	0.55
1:E:551:LEU:HD23	1:E:551:LEU:C	2.27	0.55
1:E:1107:GLU:HG3	1:E:1108:PRO:CD	2.33	0.55
1:F:88:ILE:HG21	2:L:1821:MET:CE	2.37	0.55
2:G:298:ALA:HB2	2:G:304:PHE:HA	1.87	0.55
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.37	0.55
2:G:713:HIS:CD2	2:G:740:ILE:HD13	2.42	0.55
2:G:1175:MET:HE1	2:G:1234:ILE:HG21	1.88	0.55
2:G:1246:LEU:HD11	2:G:1261:PHE:HE1	1.72	0.55
2:G:1517:LEU:HD12	2:G:1521:GLU:HB2	1.89	0.55
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.07	0.55
2:H:917:ARG:HD3	2:H:937:ARG:CZ	2.37	0.55
2:H:1393:ASP:HB3	2:H:1395:LEU:HD21	1.88	0.55
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:501:TRP:HE1	2:I:528:THR:CG2	2.14	0.55
2:I:776:LEU:HG	2:I:807:PHE:CE2	2.41	0.55
2:I:992:ALA:O	2:I:995:ARG:HB3	2.06	0.55
2:I:1725:HIS:CD2	2:I:1854:GLU:HB3	2.42	0.55
2:I:2062:THR:HG22	2:I:2064:SER:N	2.22	0.55
2:J:700:GLU:H	2:J:700:GLU:CD	2.10	0.55
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.89	0.55
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.06	0.55
2:K:966:VAL:O	2:K:970:PHE:HD1	1.90	0.55
2:K:1224:GLN:OE1	2:K:1224:GLN:HA	2.07	0.55
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.88	0.55
2:L:486:ILE:HG23	2:L:490:LEU:HG	1.89	0.55
2:L:1248:GLU:OE1	2:L:1248:GLU:HA	2.06	0.55
1:A:746:PHE:CD2	3:A:1901:NAP:H4D	2.43	0.54
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.89	0.54
1:C:40:ARG:NH2	1:C:72:THR:HG22	2.21	0.54
1:C:617:LEU:N	1:C:617:LEU:HD23	2.21	0.54
1:C:628:TYR:CD1	1:C:628:TYR:C	2.79	0.54
1:D:36:LEU:HD22	1:D:61:LEU:HD21	1.89	0.54
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.37	0.54
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.71	0.54
1:E:24:MET:HB3	2:K:2043:VAL:HG12	1.89	0.54
1:E:415:TYR:O	1:E:419:PHE:HD1	1.89	0.54
1:E:875:GLU:O	1:E:878:PHE:HB3	2.06	0.54
1:E:1703:VAL:HG22	1:E:1713:PHE:N	2.22	0.54
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.08	0.54
2:G:613:VAL:HG23	2:G:635:TYR:CE1	2.42	0.54
2:G:1616:VAL:HG11	2:G:1679:LEU:CD1	2.33	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD2	2.42	0.54
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	1.88	0.54
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.60	0.54
2:J:192:THR:C	2:J:194:PRO:HD3	2.27	0.54
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.88	0.54
2:J:618:VAL:HG11	2:J:648:ILE:HD11	1.89	0.54
2:J:750:GLY:O	2:J:865:ILE:HA	2.07	0.54
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.70	0.54
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.88	0.54
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.37	0.54
2:K:379:GLY:O	2:K:391:VAL:HG13	2.07	0.54
2:K:1293:TRP:NE1	2:K:1354:TRP:HZ2	2.05	0.54
2:K:1481:ILE:HD12	2:K:1515:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1878:ARG:HE	2:K:1986:PRO:HG3	1.73	0.54
2:L:35:PHE:HD2	2:L:37:VAL:HG22	1.72	0.54
2:L:126:VAL:HG12	2:L:127:ALA:H	1.73	0.54
2:L:1344:ALA:N	2:L:1389:LEU:O	2.36	0.54
1:A:1267:LEU:HD11	1:A:1303:LEU:HD12	1.87	0.54
1:A:1697:LEU:HD21	1:E:1401:LEU:HD22	1.88	0.54
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.34	0.54
1:D:1686:PRO:HB2	1:D:1713:PHE:CD1	2.42	0.54
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.42	0.54
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.07	0.54
1:F:498:THR:HG21	1:F:858:LEU:CA	2.37	0.54
1:F:673:LEU:O	1:F:678:ALA:HB3	2.07	0.54
1:F:983:GLN:HB3	1:F:1418:ILE:HG21	1.88	0.54
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.43	0.54
2:G:83:VAL:O	2:G:87:VAL:HG23	2.08	0.54
2:G:172:ILE:HG22	2:G:514:VAL:O	2.06	0.54
2:H:92:GLU:HB3	2:H:95:HIS:NE2	2.21	0.54
2:H:451:ILE:O	2:H:455:VAL:HG23	2.06	0.54
2:H:611:THR:HA	2:H:1051:GLU:OE2	2.06	0.54
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.72	0.54
2:H:888:ARG:O	2:H:891:ARG:HB2	2.07	0.54
2:H:1028:VAL:HG13	2:H:1030:PHE:CD2	2.43	0.54
2:I:1026:LYS:HE2	2:I:1045:ASP:OD2	2.08	0.54
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.42	0.54
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	2.23	0.54
2:J:762:LEU:HD11	2:J:800:PHE:CD2	2.42	0.54
2:J:882:LYS:HB3	2:J:898:ARG:HH12	1.73	0.54
2:J:1746:THR:CB	2:J:1792:THR:HG23	2.35	0.54
2:K:192:THR:C	2:K:194:PRO:HD3	2.27	0.54
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.24	0.54
2:K:361:VAL:O	2:K:365:ILE:HG13	2.07	0.54
2:K:719:GLY:O	2:K:755:GLU:HG3	2.08	0.54
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.43	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.24	0.54
2:L:785:SER:HA	2:L:788:THR:HB	1.87	0.54
2:L:1607:THR:HB	2:L:1643:VAL:O	2.07	0.54
2:L:1804:GLN:HB3	2:L:1861:PHE:CE1	2.43	0.54
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.23	0.54
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.33	0.54
1:A:36:LEU:HD22	1:A:61:LEU:HD21	1.90	0.54
1:A:613:PRO:O	1:A:615:LEU:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.90	0.54
1:B:549:TYR:HE1	1:B:567:ASN:HB3	1.73	0.54
1:C:1401:LEU:HD22	1:F:1697:LEU:HD21	1.89	0.54
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.08	0.54
1:E:1584:GLY:HA2	1:E:1617:ILE:CD1	2.38	0.54
1:F:427:ARG:HG3	1:F:492:ILE:HG12	1.89	0.54
1:F:526:MET:HE3	1:F:614:PHE:HB2	1.89	0.54
1:F:1079:ARG:HG2	1:F:1079:ARG:NH1	2.07	0.54
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.42	0.54
2:G:653:PRO:O	2:G:656:ARG:HB2	2.07	0.54
2:G:745:GLY:HA3	2:G:757:PHE:HB3	1.88	0.54
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.34	0.54
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.89	0.54
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.73	0.54
2:H:26:LEU:O	2:H:32:GLU:HA	2.08	0.54
2:H:1086:ILE:O	2:H:1090:ILE:HG13	2.07	0.54
2:H:1299:VAL:HG22	2:H:1301:PHE:CD1	2.43	0.54
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.88	0.54
2:H:1653:LEU:CD2	2:H:1667:VAL:HG13	2.38	0.54
2:I:422:THR:HG23	2:I:844:GLU:CD	2.28	0.54
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.88	0.54
2:I:1377:SER:HB3	2:I:1432:GLN:HB2	1.90	0.54
2:J:465:LEU:HB2	2:J:479:ARG:HG3	1.90	0.54
2:J:876:TRP:C	2:J:876:TRP:CD1	2.81	0.54
2:J:1885:ALA:HB2	2:J:1998:LEU:HD21	1.89	0.54
2:K:159:PHE:HA	2:K:162:ALA:HB3	1.89	0.54
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.43	0.54
2:K:762:LEU:HD11	2:K:800:PHE:CD2	2.43	0.54
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.34	0.54
2:K:859:SER:CB	2:K:863:GLU:HG3	2.36	0.54
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.88	0.54
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.89	0.54
2:L:938:MET:HE2	2:L:959:THR:HG22	1.90	0.54
2:L:1564:SER:HB2	2:L:1653:LEU:H	1.73	0.54
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.08	0.54
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.21	0.54
1:A:1211:LYS:HE3	1:A:1711:LEU:HD21	1.89	0.54
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.08	0.54
1:B:1532:LYS:HE2	1:B:1598:VAL:HG11	1.89	0.54
1:C:768:ARG:HA	1:C:772:THR:OG1	2.08	0.54
1:C:868:VAL:CG1	1:C:908:ILE:HD11	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:ILE:HG21	2:J:1821:MET:HE2	1.90	0.54
1:D:1703:VAL:HG12	1:D:1711:LEU:HD22	1.90	0.54
1:F:904:GLY:HA2	1:F:906:GLN:OE1	2.08	0.54
2:G:35:PHE:CD2	2:G:37:VAL:HG22	2.42	0.54
2:G:824:THR:HB	2:G:829:LYS:HE3	1.89	0.54
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.07	0.54
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.88	0.54
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.08	0.54
2:H:152:LYS:HB2	2:H:154:TYR:CE1	2.42	0.54
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.37	0.54
2:H:1317:ASN:HB3	2:H:1320:ALA:HB3	1.90	0.54
2:I:228:LEU:O	2:I:232:HIS:HD2	1.90	0.54
2:I:505:THR:HG22	2:I:505:THR:O	2.08	0.54
2:I:663:ILE:HG21	3:I:2102:NAP:H1D	1.89	0.54
2:J:70:SER:HB2	2:J:74:GLU:OE2	2.08	0.54
2:J:268:LEU:HD12	2:J:275:LEU:HD11	1.90	0.54
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.89	0.54
2:J:409:LYS:HB3	2:J:428:PHE:CZ	2.42	0.54
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.89	0.54
2:J:980:LEU:HD22	2:J:986:LEU:HD21	1.89	0.54
2:J:1607:THR:HB	2:J:1643:VAL:O	2.06	0.54
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.42	0.54
2:L:38:PRO:HG2	2:L:41:LEU:HD12	1.90	0.54
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.89	0.54
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.54
1:B:469:LEU:O	1:B:472:GLN:HB3	2.08	0.54
1:C:414:TYR:CE2	1:C:418:ILE:HD11	2.43	0.54
1:C:1017:TYR:N	1:C:1017:TYR:CD1	2.75	0.54
1:C:1118:GLU:OE2	1:F:1154:LEU:HD21	2.06	0.54
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.88	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.89	0.54
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.90	0.54
1:E:746:PHE:HB3	3:E:1901:NAP:H52N	1.89	0.54
1:E:1451:LYS:HA	1:E:1454:ARG:NH2	2.22	0.54
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.42	0.54
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.90	0.54
2:G:485:ASP:O	2:G:488:PRO:HD2	2.06	0.54
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.21	0.54
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.89	0.54
2:G:1317:ASN:HB3	2:G:1320:ALA:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1436:ARG:NH2	2:G:1602:LEU:CD1	2.71	0.54
2:H:197:VAL:HA	2:H:262:MET:HE1	1.90	0.54
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.89	0.54
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.38	0.54
2:I:529:ASN:HD22	2:I:552:VAL:HG23	1.72	0.54
2:I:618:VAL:O	2:I:622:MET:HG3	2.08	0.54
2:I:700:GLU:CD	2:I:700:GLU:H	2.11	0.54
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.73	0.54
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.38	0.54
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.23	0.54
2:I:1947:LYS:HG2	2:I:1993:PHE:CD1	2.42	0.54
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.37	0.54
2:J:1701:GLU:H	2:J:1704:MET:CE	2.19	0.54
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.08	0.54
2:K:980:LEU:HD22	2:K:986:LEU:HD21	1.90	0.54
2:K:1231:THR:CG2	2:K:1595:VAL:HG11	2.37	0.54
2:K:1885:ALA:HB2	2:K:1998:LEU:HD21	1.89	0.54
2:L:747:ARG:NH1	2:L:780:SER:O	2.40	0.54
2:L:762:LEU:HD11	2:L:800:PHE:CD2	2.42	0.54
2:L:978:SER:O	2:L:981:GLN:HG2	2.08	0.54
2:L:1335:PHE:CZ	2:L:1629:ILE:HD13	2.42	0.54
2:L:1878:ARG:HE	2:L:1986:PRO:HG3	1.71	0.54
1:A:350:ASP:HB3	1:A:353:ALA:HB2	1.89	0.54
1:B:550:LYS:HZ1	1:B:631:LYS:HE2	1.70	0.54
1:C:1142:LEU:N	1:C:1142:LEU:HD12	2.23	0.54
1:D:849:GLY:HA3	1:D:873:GLN:CG	2.38	0.54
1:E:452:ILE:HD12	1:E:467:LYS:HA	1.88	0.54
1:E:1443:LEU:HD22	1:E:1474:ILE:HD11	1.89	0.54
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.42	0.54
1:F:828:TRP:HE1	1:F:838:THR:HA	1.71	0.54
1:F:907:PHE:O	1:F:909:PRO:HD3	2.08	0.54
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.23	0.54
1:F:1164:ILE:HD12	1:F:1355:GLN:HG3	1.90	0.54
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.43	0.54
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.89	0.54
2:G:859:SER:CB	2:G:863:GLU:HG3	2.38	0.54
2:H:505:THR:O	2:H:505:THR:HG22	2.06	0.54
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.90	0.54
2:H:2062:THR:HG22	2:H:2064:SER:N	2.22	0.54
2:I:245:SER:HA	2:I:436:THR:OG1	2.08	0.54
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:962:PHE:O	2:I:966:VAL:HG23	2.05	0.54
2:J:38:PRO:HG2	2:J:41:LEU:HD12	1.89	0.54
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.42	0.54
2:J:825:SER:HB2	2:J:1053:ILE:HG13	1.88	0.54
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.69	0.54
2:J:1436:ARG:NH2	2:J:1602:LEU:HD11	2.23	0.54
2:J:2021:LEU:O	2:J:2025:ILE:HG13	2.08	0.54
2:K:571:ASP:HB3	2:K:574:LYS:HB2	1.89	0.54
2:K:1083:ILE:O	2:K:1086:ILE:HG13	2.08	0.54
2:K:1234:ILE:HG12	2:K:1244:LEU:HD13	1.90	0.54
2:K:1620:VAL:O	2:K:1624:ALA:HB3	2.07	0.54
2:L:251:PRO:HG3	2:L:316:PHE:CA	2.36	0.54
2:L:1128:PRO:HG2	2:L:1135:ALA:CB	2.36	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:CG	2.38	0.54
2:L:1175:MET:O	2:L:1192:LEU:HD12	2.08	0.54
2:L:1366:ILE:O	2:L:1366:ILE:HG22	2.08	0.54
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.88	0.54
1:B:22:PHE:O	2:H:2006:HIS:HA	2.07	0.54
1:B:430:VAL:O	1:B:434:ILE:HG13	2.06	0.54
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.42	0.54
1:B:868:VAL:CG1	1:B:908:ILE:HD11	2.34	0.54
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.90	0.54
1:C:415:TYR:O	1:C:419:PHE:HD1	1.91	0.54
1:C:1209:PHE:CE2	1:C:1301:VAL:HG21	2.42	0.54
1:C:1488:SER:O	1:F:1480:ARG:NH2	2.38	0.54
1:D:350:ASP:HB3	1:D:353:ALA:HB2	1.90	0.54
1:D:881:LEU:O	1:D:884:MET:HB2	2.08	0.54
1:D:1042:LEU:HD12	1:D:1058:PRO:HG3	1.89	0.54
1:E:1001:GLU:O	1:E:1007:ASN:HA	2.07	0.54
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.08	0.54
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.89	0.54
2:G:38:PRO:HG2	2:G:41:LEU:HD12	1.89	0.54
2:G:120:HIS:HD2	2:G:137:VAL:HG21	1.71	0.54
2:G:451:ILE:O	2:G:455:VAL:HG23	2.08	0.54
2:G:656:ARG:HG2	2:G:656:ARG:NH1	2.22	0.54
2:G:888:ARG:O	2:G:891:ARG:HB2	2.07	0.54
2:H:609:THR:HG22	2:H:633:GLY:HA3	1.90	0.54
2:H:825:SER:O	2:H:828:ALA:HB3	2.08	0.54
2:H:1519:THR:O	2:H:1520:LYS:HB2	2.08	0.54
2:I:35:PHE:HZ	2:I:104:LEU:HB3	1.73	0.54
2:I:462:ALA:N	2:I:483:ASP:HA	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:752:HIS:NE2	2:I:856:THR:HG22	2.23	0.54
2:I:1234:ILE:HG12	2:I:1244:LEU:HD13	1.89	0.54
2:J:728:ILE:HG22	2:J:732:LYS:HE3	1.90	0.54
2:J:930:THR:CG2	2:J:933:GLU:HG3	2.38	0.54
2:J:966:VAL:O	2:J:970:PHE:HD1	1.90	0.54
2:J:1377:SER:HB3	2:J:1432:GLN:HB2	1.88	0.54
2:K:330:SER:N	2:L:1331:THR:HG22	2.22	0.54
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.54
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	1.89	0.54
2:L:1420:LYS:HG2	2:L:1425:PRO:CA	2.38	0.54
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.89	0.54
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	1.88	0.54
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.89	0.54
1:D:1404:ALA:HA	1:D:1501:ALA:HB1	1.89	0.54
1:E:41:THR:HA	2:K:1689:VAL:HB	1.90	0.54
1:E:859:VAL:HG13	1:E:918:LEU:HD13	1.90	0.54
1:F:1448:ALA:HA	1:F:1451:LYS:CE	2.34	0.54
1:F:1532:LYS:HE2	1:F:1598:VAL:HG11	1.89	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.90	0.54
2:G:1334:ALA:HA	2:G:1341:ASP:HB2	1.90	0.54
2:H:595:SER:HB3	2:H:602:PRO:CD	2.36	0.54
2:H:608:MET:H	2:H:612:THR:CB	2.21	0.54
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.42	0.54
2:I:21:LEU:HD22	2:I:36:LEU:HG	1.89	0.54
2:I:750:GLY:O	2:I:865:ILE:HA	2.07	0.54
2:I:1746:THR:CB	2:I:1792:THR:HG23	2.36	0.54
2:I:1890:ARG:HB3	2:I:1994:ALA:HB2	1.90	0.54
2:J:610:PRO:O	2:J:613:VAL:HG12	2.08	0.54
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.07	0.54
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.90	0.54
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.43	0.54
2:K:1346:MET:CE	2:K:1617:ARG:HH21	2.21	0.54
2:K:1421:ARG:HD2	2:K:1426:VAL:CG2	2.37	0.54
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	1.89	0.54
2:L:859:SER:CB	2:L:863:GLU:HG3	2.37	0.54
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.90	0.54
1:A:905:LEU:HD22	1:A:911:LEU:HD21	1.88	0.54
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.07	0.54
1:B:24:MET:HB3	2:H:2043:VAL:HG12	1.90	0.54
1:B:1447:VAL:CG2	1:B:1467:LEU:HD21	2.36	0.54
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:501:ASP:OD2	1:D:503:ARG:HB2	2.08	0.54
1:D:636:TYR:CD1	1:D:888:ILE:HD11	2.43	0.54
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.43	0.54
1:E:1491:ASN:H	1:E:1491:ASN:HD22	1.54	0.54
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.41	0.54
1:E:1532:LYS:HE2	1:E:1598:VAL:HG11	1.88	0.54
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.08	0.54
1:F:1451:LYS:HE2	1:F:1463:GLU:OE2	2.08	0.54
2:G:501:TRP:HE1	2:G:528:THR:CG2	2.15	0.54
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.90	0.54
2:H:1445:THR:CG2	2:H:1498:PHE:HB2	2.38	0.54
2:H:1804:GLN:HB3	2:H:1861:PHE:CE1	2.42	0.54
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.72	0.54
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.43	0.54
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.70	0.54
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.81	0.54
2:J:1411:LYS:HB3	2:J:1435:TYR:HB2	1.90	0.54
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.34	0.54
2:J:1932:ASP:O	2:J:1936:LEU:HD23	2.08	0.54
2:K:26:LEU:O	2:K:32:GLU:HA	2.07	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.43	0.54
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.42	0.54
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.72	0.54
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.68	0.54
2:L:1194:ARG:NH1	2:L:1194:ARG:CG	2.54	0.54
2:L:1377:SER:HB3	2:L:1432:GLN:HB2	1.89	0.54
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.71	0.54
1:A:430:VAL:O	1:A:434:ILE:HG13	2.08	0.54
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.07	0.54
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.90	0.54
1:A:1306:GLY:O	1:A:1357:CYS:HB2	2.08	0.54
1:A:1317:GLU:HB3	1:E:1250:LEU:HD22	1.88	0.54
1:A:1670:HIS:CE1	2:G:1009:ASN:ND2	2.76	0.54
1:B:569:LEU:O	1:B:573:VAL:HG23	2.08	0.54
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.08	0.54
1:B:746:PHE:HB3	3:B:1901:NAP:H52N	1.90	0.54
1:B:849:GLY:HA3	1:B:873:GLN:CG	2.38	0.54
1:C:1250:LEU:HD22	1:F:1317:GLU:HB3	1.90	0.54
1:D:1229:THR:HB	1:D:1311:GLN:HG3	1.90	0.54
1:D:1451:LYS:HA	1:D:1454:ARG:NH2	2.23	0.54
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.08	0.54
1:F:31:THR:HG23	2:L:2040:ILE:HG21	1.90	0.54
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.38	0.54
2:G:204:ILE:HG23	2:G:312:VAL:HG11	1.90	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:HD2	1.73	0.54
2:H:524:ILE:HA	2:H:527:LEU:HD12	1.90	0.54
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.90	0.54
2:I:35:PHE:CD2	2:I:37:VAL:HG22	2.43	0.54
2:I:126:VAL:HG12	2:I:127:ALA:H	1.73	0.54
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.90	0.54
2:I:1200:ARG:HD3	2:I:1200:ARG:N	2.10	0.54
2:I:1963:GLU:HA	2:I:1966:ARG:HB3	1.89	0.54
2:J:138:ARG:CB	2:J:192:THR:HA	2.38	0.54
2:J:1338:ARG:HH21	2:L:326:TYR:HA	1.73	0.54
2:K:1217:ILE:O	2:K:1233:GLU:HA	2.08	0.54
2:L:861:MET:HB2	2:L:863:GLU:HG2	1.89	0.54
2:L:1700:GLN:HA	2:L:1704:MET:CE	2.35	0.54
2:L:1963:GLU:HA	2:L:1966:ARG:HB3	1.90	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.53
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.38	0.53
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.07	0.53
1:B:1038:HIS:O	1:B:1048:SER:HA	2.08	0.53
1:C:1640:LYS:HG3	1:C:1641:TYR:HD1	1.72	0.53
1:D:469:LEU:O	1:D:472:GLN:HB3	2.07	0.53
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.08	0.53
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.89	0.53
1:F:25:PRO:HA	2:L:2006:HIS:HB3	1.90	0.53
2:G:192:THR:C	2:G:194:PRO:HD3	2.29	0.53
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.90	0.53
2:G:917:ARG:CG	2:G:917:ARG:NH1	2.47	0.53
2:G:917:ARG:HD3	2:G:937:ARG:CZ	2.38	0.53
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.38	0.53
2:H:38:PRO:HG2	2:H:41:LEU:HD12	1.90	0.53
2:H:489:GLU:O	2:H:493:MET:HG3	2.09	0.53
2:H:1234:ILE:HG12	2:H:1244:LEU:HD13	1.91	0.53
2:I:172:ILE:HG22	2:I:514:VAL:O	2.08	0.53
2:I:197:VAL:HA	2:I:262:MET:HE1	1.91	0.53
2:I:451:ILE:O	2:I:455:VAL:HG23	2.07	0.53
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.90	0.53
2:I:1411:LYS:HB3	2:I:1435:TYR:HB2	1.90	0.53
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:785:SER:HA	2:J:788:THR:HB	1.89	0.53
2:J:2039:TYR:O	2:J:2041:PRO:HD3	2.08	0.53
2:K:161:ALA:HB1	2:K:166:ASN:HB2	1.90	0.53
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.89	0.53
2:K:622:MET:O	2:K:656:ARG:NH1	2.40	0.53
2:K:911:GLN:HG3	2:K:1064:THR:HA	1.89	0.53
2:K:1821:MET:HA	2:K:1826:LEU:HD12	1.90	0.53
2:L:605:VAL:CB	2:L:628:ILE:HG13	2.32	0.53
2:L:824:THR:HG22	2:L:828:ALA:HB3	1.90	0.53
2:L:1603:PRO:HD2	2:L:1606:ILE:HD11	1.90	0.53
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	1.90	0.53
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.08	0.53
1:B:427:ARG:NH1	1:B:492:ILE:HG12	2.23	0.53
1:B:628:TYR:CD1	1:B:628:TYR:C	2.81	0.53
1:C:535:TYR:CG	1:C:610:GLU:N	2.76	0.53
1:E:427:ARG:HG3	1:E:427:ARG:NH1	2.01	0.53
1:E:427:ARG:NH1	1:E:492:ILE:HG23	2.16	0.53
1:E:983:GLN:O	1:E:987:MET:HG3	2.08	0.53
1:E:1514:ILE:HD13	1:E:1545:LEU:HB3	1.90	0.53
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.89	0.53
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.72	0.53
2:G:486:ILE:HG23	2:G:490:LEU:HG	1.91	0.53
2:H:22:ARG:HD2	2:H:42:HIS:HB3	1.90	0.53
2:H:727:VAL:HA	2:H:730:ILE:HG12	1.90	0.53
2:H:1436:ARG:HH22	2:H:1602:LEU:HD13	1.72	0.53
2:I:35:PHE:HD2	2:I:37:VAL:HG22	1.72	0.53
2:I:289:ILE:HG12	2:I:493:MET:HE1	1.91	0.53
2:I:1421:ARG:HD2	2:I:1426:VAL:CG2	2.38	0.53
2:I:1821:MET:HA	2:I:1826:LEU:HD12	1.90	0.53
2:J:256:VAL:O	2:J:260:HIS:CD2	2.61	0.53
2:J:329:THR:HG21	2:K:1333:GLU:CG	2.39	0.53
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.53
2:K:376:ARG:NH2	2:L:1340:LYS:HG3	2.24	0.53
2:K:460:ILE:O	2:K:486:ILE:HB	2.08	0.53
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.89	0.53
2:K:1445:THR:CG2	2:K:1498:PHE:HB2	2.39	0.53
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.08	0.53
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.08	0.53
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.38	0.53
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.43	0.53
2:L:824:THR:HB	2:L:829:LYS:HE3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:911:GLN:HG3	2:L:1064:THR:HA	1.89	0.53
2:L:1436:ARG:HH22	2:L:1602:LEU:CD1	2.21	0.53
1:A:1120:LYS:HD3	1:A:1129:ILE:HG12	1.90	0.53
1:A:1505:GLY:O	1:A:1509:THR:HG23	2.08	0.53
1:B:486:VAL:HG13	1:B:648:LEU:H	1.74	0.53
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.37	0.53
1:C:904:GLY:HA2	1:C:906:GLN:OE1	2.07	0.53
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.90	0.53
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.41	0.53
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.71	0.53
1:C:1686:PRO:HB2	1:C:1713:PHE:CE1	2.43	0.53
1:D:486:VAL:HG13	1:D:648:LEU:H	1.73	0.53
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.90	0.53
1:E:382:ILE:HD12	1:E:761:SER:HB3	1.90	0.53
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.08	0.53
1:F:452:ILE:HD12	1:F:467:LYS:HA	1.89	0.53
2:G:506:VAL:O	2:G:506:VAL:CG1	2.57	0.53
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.23	0.53
2:H:1342:PHE:HE2	2:H:1391:VAL:CG2	2.21	0.53
2:I:609:THR:HG22	2:I:633:GLY:HA3	1.88	0.53
2:I:656:ARG:HG2	2:I:656:ARG:NH1	2.20	0.53
2:I:762:LEU:HD11	2:I:800:PHE:CD2	2.44	0.53
2:I:903:ILE:HD11	2:I:914:TRP:CZ2	2.43	0.53
2:I:1370:LEU:HA	2:I:1435:TYR:CE2	2.42	0.53
2:I:1709:TYR:HD2	2:I:1709:TYR:C	2.11	0.53
2:I:1986:PRO:O	2:I:1987:VAL:HB	2.08	0.53
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.91	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.90	0.53
2:J:595:SER:HB3	2:J:602:PRO:CD	2.38	0.53
2:J:747:ARG:NH1	2:J:780:SER:HB3	2.20	0.53
2:J:938:MET:HE2	2:J:959:THR:HG22	1.89	0.53
2:K:1746:THR:CB	2:K:1792:THR:HG23	2.35	0.53
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	1.90	0.53
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.40	0.53
2:L:1203:TYR:HB3	2:L:1220:ARG:HB2	1.89	0.53
2:L:1616:VAL:HG11	2:L:1679:LEU:CD1	2.31	0.53
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.42	0.53
1:A:1017:TYR:N	1:A:1017:TYR:HD1	2.05	0.53
1:B:13:LEU:HD11	2:H:2058:VAL:HG21	1.90	0.53
1:B:1307:PHE:HB3	1:B:1357:CYS:HB3	1.90	0.53
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1435:TRP:HD1	1:F:1427:LEU:HD11	1.72	0.53
1:D:542:GLN:HB3	1:D:579:MET:CE	2.18	0.53
1:E:565:GLN:O	1:E:569:LEU:HG	2.07	0.53
1:E:628:TYR:HD1	1:E:629:SER:N	2.06	0.53
1:F:382:ILE:HD12	1:F:761:SER:HB3	1.90	0.53
2:G:300:THR:H	2:G:303:GLU:HB3	1.73	0.53
2:G:614:PRO:O	2:G:618:VAL:HG12	2.08	0.53
2:G:776:LEU:HG	2:G:807:PHE:CE2	2.43	0.53
2:G:1224:GLN:OE1	2:G:1224:GLN:HA	2.09	0.53
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.89	0.53
2:H:48:LEU:HD13	2:H:101:VAL:HG11	1.90	0.53
2:H:490:LEU:HA	2:H:493:MET:SD	2.49	0.53
2:H:605:VAL:CB	2:H:628:ILE:HG13	2.33	0.53
2:I:290:VAL:HG13	2:I:314:LEU:HD23	1.91	0.53
2:I:609:THR:CG2	2:I:633:GLY:HA3	2.39	0.53
2:I:1067:LEU:HB2	4:I:2101:FMN:HM71	1.88	0.53
2:I:1411:LYS:HE3	2:I:1441:ASP:OD2	2.09	0.53
2:I:1464:LEU:HD13	2:I:1468:ARG:HG3	1.91	0.53
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.23	0.53
2:J:931:TYR:O	2:J:935:VAL:HG12	2.09	0.53
2:J:1555:VAL:HG21	2:J:1824:LYS:HA	1.90	0.53
2:J:1878:ARG:HE	2:J:1986:PRO:HG3	1.73	0.53
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.37	0.53
2:K:256:VAL:O	2:K:260:HIS:CD2	2.62	0.53
2:L:157:ALA:HB3	2:L:565:ALA:HB3	1.90	0.53
2:L:161:ALA:HB1	2:L:166:ASN:HB2	1.89	0.53
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.22	0.53
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.91	0.53
2:L:1845:VAL:CG2	2:L:1856:LEU:HD22	2.39	0.53
2:L:2062:THR:HG22	2:L:2064:SER:N	2.23	0.53
1:A:42:GLU:OE1	2:G:1688:PRO:HB3	2.08	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.73	0.53
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.91	0.53
1:C:844:ILE:N	1:C:844:ILE:HD12	2.23	0.53
1:C:1100:VAL:HG21	1:C:1150:ILE:CD1	2.38	0.53
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.08	0.53
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.23	0.53
1:D:1038:HIS:O	1:D:1048:SER:HA	2.08	0.53
1:E:1670:HIS:CE1	2:K:1009:ASN:ND2	2.77	0.53
1:F:628:TYR:HD1	1:F:629:SER:N	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.44	0.53
1:F:1565:PRO:O	1:F:1567:GLY:N	2.42	0.53
2:G:26:LEU:O	2:G:32:GLU:HA	2.09	0.53
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.44	0.53
2:G:2062:THR:HG22	2:G:2064:SER:N	2.24	0.53
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.39	0.53
2:H:610:PRO:HD2	4:H:2101:FMN:C6	2.25	0.53
2:H:752:HIS:CE1	2:H:856:THR:HG21	2.43	0.53
2:H:1224:GLN:OE1	2:H:1224:GLN:HA	2.08	0.53
2:H:1616:VAL:HG11	2:H:1679:LEU:CD1	2.32	0.53
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.70	0.53
2:I:192:THR:C	2:I:194:PRO:HD3	2.28	0.53
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.38	0.53
2:I:1643:VAL:CG1	2:I:1649:ILE:HD11	2.38	0.53
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.38	0.53
2:J:798:THR:HA	2:J:802:TYR:O	2.08	0.53
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.53
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.90	0.53
2:K:485:ASP:O	2:K:488:PRO:HD2	2.09	0.53
2:K:613:VAL:HG13	2:K:614:PRO:CD	2.38	0.53
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.38	0.53
2:K:1607:THR:HB	2:K:1643:VAL:O	2.08	0.53
2:L:609:THR:HG22	2:L:633:GLY:HA3	1.91	0.53
1:A:1017:TYR:N	1:A:1017:TYR:CD1	2.76	0.53
1:A:1337:PRO:HA	1:A:1340:MET:CG	2.38	0.53
1:B:41:THR:HA	2:H:1689:VAL:HB	1.90	0.53
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.44	0.53
1:C:1038:HIS:O	1:C:1048:SER:HA	2.08	0.53
1:E:960:ARG:HH11	1:E:960:ARG:HG3	1.73	0.53
2:G:152:LYS:HB2	2:G:154:TYR:CE1	2.43	0.53
2:G:604:MET:CE	2:G:811:MET:HB2	2.39	0.53
2:H:268:LEU:HD12	2:H:275:LEU:HD11	1.90	0.53
2:H:440:HIS:HD2	2:H:497:ASP:O	1.90	0.53
2:H:613:VAL:HG13	2:H:614:PRO:HD3	1.89	0.53
2:H:685:VAL:CG1	2:H:687:ILE:HG13	2.38	0.53
2:H:762:LEU:HD11	2:H:800:PHE:CD2	2.43	0.53
2:H:2021:LEU:O	2:H:2025:ILE:HG13	2.09	0.53
2:I:94:ALA:HB1	2:I:97:THR:OG1	2.07	0.53
2:I:1305:LEU:HD12	2:I:1305:LEU:H	1.72	0.53
2:J:952:ASP:OD1	2:J:953:PRO:HD2	2.08	0.53
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:141:TYR:OH	2:K:267:THR:HG23	2.08	0.53
2:K:1007:LEU:HD12	2:K:1007:LEU:N	2.17	0.53
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.41	0.53
2:L:21:LEU:HA	2:L:37:VAL:O	2.08	0.53
2:L:92:GLU:HB3	2:L:95:HIS:NE2	2.24	0.53
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.90	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:1207:THR:O	2:L:1215:THR:HG23	2.09	0.53
1:C:469:LEU:O	1:C:472:GLN:HB3	2.08	0.53
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.53
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.08	0.53
1:C:1260:ALA:O	1:C:1264:MET:HG3	2.08	0.53
1:C:1702:ARG:HG2	1:C:1702:ARG:NH1	2.12	0.53
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.56	0.53
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.91	0.53
1:F:575:ARG:HG2	1:F:579:MET:SD	2.49	0.53
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.72	0.53
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.37	0.53
2:G:1963:GLU:HA	2:G:1966:ARG:HB3	1.91	0.53
2:G:1982:ALA:O	2:G:1984:PRO:HD3	2.08	0.53
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.15	0.53
2:H:875:PHE:O	2:H:878:GLU:HB2	2.09	0.53
2:H:962:PHE:O	2:H:966:VAL:HG23	2.09	0.53
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.90	0.53
2:H:2039:TYR:O	2:H:2041:PRO:HD3	2.09	0.53
2:I:256:VAL:O	2:I:260:HIS:CD2	2.61	0.53
2:I:820:LYS:HG3	2:I:821:GLU:HG2	1.91	0.53
2:I:912:LYS:HB3	2:I:1030:PHE:HA	1.91	0.53
2:J:276:LEU:HD21	2:J:296:ALA:HA	1.91	0.53
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.89	0.53
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.39	0.53
2:K:861:MET:HB2	2:K:863:GLU:HG2	1.90	0.53
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.90	0.53
2:L:1795:SER:HB3	2:L:1799:LEU:HD12	1.91	0.53
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.38	0.53
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	1.97	0.53
1:B:612:ILE:HA	1:B:628:TYR:CE2	2.44	0.53
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.91	0.53
1:B:1505:GLY:O	1:B:1509:THR:HG23	2.08	0.53
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.09	0.53
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1451:LYS:HA	1:C:1454:ARG:NH2	2.23	0.53
1:D:22:PHE:O	2:J:2006:HIS:HA	2.09	0.53
1:D:684:THR:HG21	1:D:691:VAL:HG11	1.90	0.53
1:D:1132:ILE:HD12	1:D:1137:GLN:HB2	1.90	0.53
1:E:628:TYR:OH	1:E:630:LYS:HG2	2.09	0.53
1:E:689:ARG:NH2	1:E:1591:ASN:OD1	2.41	0.53
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.53
1:F:1132:ILE:HD12	1:F:1137:GLN:HB2	1.90	0.53
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.91	0.53
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.73	0.53
2:G:882:LYS:HB3	2:G:898:ARG:NH1	2.24	0.53
2:G:1653:LEU:HD21	2:G:1667:VAL:HG13	1.90	0.53
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.08	0.53
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.37	0.53
2:G:2044:THR:HG22	2:G:2046:LYS:H	1.73	0.53
2:H:21:LEU:HD22	2:H:36:LEU:HG	1.89	0.53
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.20	0.53
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.23	0.53
2:I:462:ALA:H	2:I:483:ASP:HA	1.72	0.53
2:I:653:PRO:O	2:I:656:ARG:HB2	2.09	0.53
2:I:859:SER:CB	2:I:863:GLU:HG3	2.38	0.53
2:J:161:ALA:HB1	2:J:166:ASN:HB2	1.90	0.53
2:J:747:ARG:NH2	2:J:757:PHE:CE1	2.77	0.53
2:K:197:VAL:HG12	2:K:201:ILE:HG13	1.91	0.53
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.24	0.53
2:K:1128:PRO:HG2	2:K:1135:ALA:CB	2.39	0.53
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.38	0.53
2:L:192:THR:C	2:L:194:PRO:HD3	2.28	0.53
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.08	0.53
1:A:628:TYR:HD1	1:A:629:SER:N	2.06	0.53
1:A:1269:SER:O	1:E:1386:THR:HB	2.09	0.53
1:C:452:ILE:HD12	1:C:467:LYS:HA	1.91	0.53
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.09	0.53
1:E:636:TYR:CD1	1:E:888:ILE:HD11	2.44	0.53
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.90	0.53
1:E:1052:ASP:O	1:E:1055:THR:O	2.26	0.53
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.91	0.53
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.90	0.53
1:F:746:PHE:CE1	1:F:800:PRO:HG3	2.43	0.53
1:F:1491:ASN:HD22	1:F:1491:ASN:H	1.56	0.53
2:G:595:SER:HB3	2:G:602:PRO:CD	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.91	0.53
2:G:1805:PHE:O	2:G:1808:PRO:HD2	2.09	0.53
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.91	0.53
2:H:699:ILE:HD12	2:H:699:ILE:N	2.24	0.53
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.73	0.53
2:H:1436:ARG:NH2	2:H:1602:LEU:CD1	2.72	0.53
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.44	0.53
2:I:379:GLY:O	2:I:391:VAL:HG13	2.09	0.53
2:I:825:SER:CB	2:I:1053:ILE:HG13	2.39	0.53
2:I:915:PHE:CD2	2:I:915:PHE:O	2.62	0.53
2:I:1317:ASN:HB3	2:I:1320:ALA:HB3	1.90	0.53
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.09	0.53
2:J:21:LEU:HD22	2:J:36:LEU:HG	1.91	0.53
2:J:376:ARG:HH22	2:K:1340:LYS:CE	2.22	0.53
2:J:608:MET:H	2:J:612:THR:CB	2.20	0.53
2:J:609:THR:HG23	4:J:2101:FMN:O4	2.08	0.53
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.24	0.53
2:K:613:VAL:HG23	2:K:635:TYR:CE1	2.44	0.53
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.22	0.53
2:L:1982:ALA:O	2:L:1984:PRO:HD3	2.09	0.53
1:A:960:ARG:HH11	1:A:960:ARG:HG3	1.74	0.53
1:B:1330:GLU:OE2	1:B:1342:ARG:NH2	2.41	0.53
1:C:501:ASP:OD2	1:C:503:ARG:HB2	2.09	0.53
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.44	0.53
1:D:570:TYR:HD2	1:D:574:ILE:HD11	1.73	0.53
1:D:628:TYR:CD1	1:D:628:TYR:C	2.81	0.53
1:E:59:ARG:NH1	2:K:1926:GLN:HE21	2.07	0.53
1:E:486:VAL:HG13	1:E:648:LEU:H	1.74	0.53
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.09	0.53
1:E:1306:GLY:O	1:E:1357:CYS:HB2	2.08	0.53
1:E:1451:LYS:HE2	1:E:1463:GLU:OE2	2.09	0.53
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.43	0.53
1:F:22:PHE:CE2	2:L:2017:PHE:CG	2.91	0.53
2:G:379:GLY:O	2:G:391:VAL:HG13	2.09	0.53
2:G:610:PRO:CD	4:G:2101:FMN:H6	2.26	0.53
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.45	0.53
2:G:820:LYS:HG3	2:G:821:GLU:HG2	1.90	0.53
2:G:930:THR:O	2:G:934:VAL:HG23	2.08	0.53
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.90	0.53
2:G:1007:LEU:H	2:G:1007:LEU:CD1	2.15	0.53
2:I:92:GLU:HB3	2:I:95:HIS:NE2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:613:VAL:HG13	2:I:614:PRO:HD3	1.91	0.53
2:I:980:LEU:HD22	2:I:986:LEU:HD21	1.91	0.53
2:I:1176:PHE:CE1	2:I:1192:LEU:HD13	2.44	0.53
2:I:1180:VAL:HG11	2:I:1187:PHE:CG	2.43	0.53
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.09	0.53
2:J:1180:VAL:HG11	2:J:1187:PHE:CG	2.43	0.53
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.91	0.53
2:K:618:VAL:HG11	2:K:648:ILE:HD11	1.91	0.53
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.44	0.53
2:L:1171:TRP:CD1	2:L:1172:ARG:N	2.77	0.53
2:L:1317:ASN:HB3	2:L:1320:ALA:CB	2.39	0.53
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.90	0.53
2:L:1620:VAL:O	2:L:1624:ALA:HB3	2.09	0.53
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.73	0.52
1:A:766:ALA:HA	1:A:769:ILE:HD12	1.91	0.52
1:A:967:PHE:CG	1:A:1374:PRO:HG3	2.44	0.52
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.91	0.52
1:B:1494:TRP:HE1	1:B:1509:THR:HG21	1.74	0.52
1:C:929:ARG:O	1:C:933:ILE:HG13	2.09	0.52
1:D:673:LEU:O	1:D:678:ALA:HB3	2.10	0.52
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.90	0.52
1:D:1491:ASN:HD22	1:D:1491:ASN:H	1.56	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:E:1213:VAL:HG22	1:E:1300:ARG:CZ	2.39	0.52
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	1.91	0.52
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.91	0.52
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.91	0.52
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.31	0.52
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.90	0.52
2:G:992:ALA:O	2:G:995:ARG:HB3	2.09	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.43	0.52
2:G:1620:VAL:O	2:G:1624:ALA:HB3	2.09	0.52
2:G:1885:ALA:HB2	2:G:1998:LEU:HD21	1.90	0.52
2:H:613:VAL:N	2:H:614:PRO:CD	2.72	0.52
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.24	0.52
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.91	0.52
2:H:1370:LEU:HA	2:H:1435:TYR:CE2	2.43	0.52
2:H:1878:ARG:HE	2:H:1986:PRO:HG3	1.73	0.52
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.73	0.52
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.90	0.52
2:I:1293:TRP:CZ3	2:I:1370:LEU:HD21	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:196:PHE:H	2:J:196:PHE:HD2	1.56	0.52
2:J:655:GLY:HA3	2:J:1272:ALA:CB	2.39	0.52
2:J:1176:PHE:CE1	2:J:1192:LEU:HD13	2.44	0.52
2:J:1234:ILE:HG12	2:J:1244:LEU:HD13	1.91	0.52
2:J:1411:LYS:HE3	2:J:1441:ASP:OD2	2.09	0.52
2:J:1821:MET:HA	2:J:1826:LEU:HD12	1.91	0.52
2:J:1890:ARG:HB3	2:J:1994:ALA:HB2	1.92	0.52
2:K:440:HIS:NE2	2:K:499:VAL:HG23	2.25	0.52
2:K:775:VAL:HG12	2:K:777:VAL:HG23	1.90	0.52
2:K:929:MET:HE1	2:K:934:VAL:HG22	1.91	0.52
2:K:930:THR:HA	2:K:1007:LEU:HA	1.91	0.52
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.72	0.52
2:K:1653:LEU:CD2	2:K:1667:VAL:HG13	2.38	0.52
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.24	0.52
2:K:1946:LEU:HD22	2:K:1951:ILE:HG12	1.92	0.52
2:L:613:VAL:N	2:L:614:PRO:CD	2.72	0.52
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.10	0.52
2:L:1279:GLU:H	2:L:1279:GLU:CD	2.12	0.52
2:L:1500:ASN:HB2	2:L:1503:VAL:H	1.74	0.52
1:A:414:TYR:CE2	1:A:418:ILE:CD1	2.92	0.52
1:A:1297:GLY:HA2	1:E:1496:ARG:NH2	2.23	0.52
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.39	0.52
1:B:1307:PHE:HB3	1:B:1357:CYS:CB	2.39	0.52
1:B:1702:ARG:HG2	1:B:1702:ARG:NH1	2.16	0.52
1:C:881:LEU:O	1:C:884:MET:HB2	2.09	0.52
1:C:1337:PRO:HA	1:C:1340:MET:CG	2.39	0.52
1:D:904:GLY:HA2	1:D:906:GLN:OE1	2.08	0.52
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.45	0.52
1:F:868:VAL:HG11	1:F:908:ILE:CD1	2.35	0.52
2:G:221:TYR:CE2	2:G:225:LEU:HD22	2.44	0.52
2:G:930:THR:CG2	2:G:933:GLU:HG3	2.38	0.52
2:H:378:ILE:HD11	2:H:398:LEU:HA	1.92	0.52
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.39	0.52
2:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.08	0.52
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	2.24	0.52
2:I:21:LEU:HD13	2:I:36:LEU:HD21	1.92	0.52
2:I:378:ILE:HD11	2:I:398:LEU:HA	1.90	0.52
2:I:422:THR:HG23	2:I:844:GLU:OE2	2.09	0.52
2:I:727:VAL:HA	2:I:730:ILE:HG12	1.90	0.52
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.44	0.52
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:992:ALA:O	2:J:995:ARG:HB3	2.10	0.52
2:J:1207:THR:O	2:J:1215:THR:HG23	2.09	0.52
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	1.90	0.52
2:K:1180:VAL:HG11	2:K:1187:PHE:CG	2.41	0.52
2:K:1464:LEU:HD13	2:K:1468:ARG:HG3	1.90	0.52
2:L:490:LEU:HA	2:L:493:MET:SD	2.50	0.52
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.91	0.52
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.23	0.52
1:A:1078:ILE:HG23	1:A:1352:MET:CE	2.40	0.52
1:A:1514:ILE:HD13	1:A:1545:LEU:HB3	1.90	0.52
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.91	0.52
1:C:983:GLN:HB3	1:C:1418:ILE:HG21	1.91	0.52
1:D:382:ILE:HD12	1:D:761:SER:HB3	1.91	0.52
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.45	0.52
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.35	0.52
1:D:983:GLN:O	1:D:987:MET:HG3	2.10	0.52
1:D:1169:ASP:OD2	1:D:1171:ARG:HB2	2.10	0.52
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.44	0.52
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.74	0.52
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.36	0.52
1:F:336:PHE:O	1:F:339:GLN:HB2	2.09	0.52
1:F:636:TYR:CD1	1:F:888:ILE:HD11	2.44	0.52
1:F:985:ARG:HB3	1:F:1422:ARG:HH22	1.75	0.52
1:F:1335:ARG:HH11	1:F:1339:GLU:HG2	1.73	0.52
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.91	0.52
2:G:794:GLY:O	2:G:804:PRO:HA	2.09	0.52
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.23	0.52
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.44	0.52
2:H:35:PHE:HZ	2:H:104:LEU:HB3	1.74	0.52
2:H:979:LEU:HB2	2:H:996:ILE:HG23	1.91	0.52
2:H:1176:PHE:CE1	2:H:1192:LEU:HD13	2.45	0.52
2:H:1383:VAL:HG23	2:H:1428:TYR:CE1	2.43	0.52
2:H:1411:LYS:HB3	2:H:1435:TYR:HB2	1.90	0.52
2:H:1468:ARG:NH1	2:H:1475:LEU:HD22	2.24	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:I:1383:VAL:HG23	2:I:1428:TYR:CE1	2.43	0.52
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.39	0.52
2:J:48:LEU:HD13	2:J:101:VAL:HG11	1.91	0.52
2:J:391:VAL:HG12	2:J:398:LEU:HD21	1.91	0.52
2:J:779:GLY:HA3	2:J:811:MET:CE	2.40	0.52
2:J:962:PHE:O	2:J:965:ARG:HB3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1350:ILE:HG22	2:J:1429:VAL:HG11	1.91	0.52
2:K:196:PHE:H	2:K:196:PHE:HD2	1.58	0.52
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.24	0.52
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.92	0.52
2:K:1913:TRP:HZ3	2:K:1938:THR:HG21	1.74	0.52
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.44	0.52
2:L:934:VAL:O	2:L:938:MET:HG3	2.08	0.52
2:L:1383:VAL:HG23	2:L:1428:TYR:CE1	2.42	0.52
1:A:746:PHE:CE1	1:A:800:PRO:HG3	2.44	0.52
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.37	0.52
1:B:336:PHE:O	1:B:339:GLN:HB2	2.09	0.52
1:B:1448:ALA:CA	1:B:1451:LYS:HE3	2.33	0.52
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.23	0.52
1:C:960:ARG:HH11	1:C:960:ARG:HG3	1.75	0.52
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.10	0.52
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.24	0.52
1:D:427:ARG:HH11	1:D:492:ILE:HG12	1.75	0.52
1:D:929:ARG:O	1:D:933:ILE:HG13	2.10	0.52
1:E:498:THR:HG21	1:E:858:LEU:CA	2.35	0.52
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.71	0.52
1:F:486:VAL:HG13	1:F:648:LEU:H	1.75	0.52
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.38	0.52
1:F:963:LEU:HD23	1:F:1023:GLU:HB3	1.90	0.52
1:F:1691:ILE:HG22	1:F:1695:VAL:HG23	1.91	0.52
2:G:290:VAL:HG13	2:G:314:LEU:HD23	1.92	0.52
2:G:378:ILE:HD11	2:G:398:LEU:HA	1.91	0.52
2:G:952:ASP:OD1	2:G:953:PRO:HD2	2.09	0.52
2:H:256:VAL:O	2:H:260:HIS:CD2	2.62	0.52
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.92	0.52
2:H:903:ILE:HD11	2:H:914:TRP:CZ2	2.45	0.52
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.43	0.52
2:H:1421:ARG:HG2	2:H:1421:ARG:O	2.08	0.52
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	1.90	0.52
2:I:1175:MET:O	2:I:1192:LEU:HD12	2.10	0.52
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.90	0.52
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.25	0.52
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.91	0.52
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.72	0.52
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	2.09	0.52
1:B:88:ILE:HG21	2:H:1821:MET:CE	2.40	0.52
1:B:546:ARG:HH11	1:B:631:LYS:HZ1	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:ILE:HA	1:C:462:THR:HB	1.91	0.52
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.39	0.52
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.45	0.52
1:E:20:TYR:CE2	2:K:2062:THR:HG23	2.44	0.52
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.70	0.52
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.44	0.52
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.74	0.52
1:F:1640:LYS:HG3	1:F:1641:TYR:HD1	1.73	0.52
2:G:1500:ASN:HB2	2:G:1503:VAL:H	1.74	0.52
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.91	0.52
2:H:92:GLU:HA	2:H:95:HIS:CE1	2.45	0.52
2:H:728:ILE:HG22	2:H:732:LYS:HE3	1.90	0.52
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.44	0.52
2:H:1074:LYS:HG3	2:H:1075:TYR:CD1	2.45	0.52
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	1.90	0.52
2:H:1279:GLU:CD	2:H:1279:GLU:H	2.12	0.52
2:H:1725:HIS:CD2	2:H:1854:GLU:HB3	2.45	0.52
2:I:834:ASP:O	2:I:836:PRO:HD3	2.10	0.52
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.91	0.52
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.25	0.52
2:I:1403:ALA:HB2	2:I:1447:GLN:HG3	1.91	0.52
2:J:656:ARG:HG2	2:J:656:ARG:NH1	2.23	0.52
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.92	0.52
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.92	0.52
2:J:1411:LYS:HB2	2:J:1439:TYR:CD1	2.44	0.52
2:J:1421:ARG:O	2:J:1421:ARG:HG2	2.06	0.52
2:J:1872:GLU:OE1	2:J:1872:GLU:HA	2.08	0.52
2:K:1377:SER:HB3	2:K:1432:GLN:HB2	1.91	0.52
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.90	0.52
2:K:1643:VAL:CG1	2:K:1649:ILE:HD11	2.39	0.52
2:K:1890:ARG:HB3	2:K:1994:ALA:HB2	1.92	0.52
2:L:35:PHE:CD2	2:L:37:VAL:HG22	2.44	0.52
2:L:930:THR:CG2	2:L:933:GLU:H	2.22	0.52
1:A:1691:ILE:HG22	1:A:1695:VAL:HG23	1.91	0.52
1:B:452:ILE:HD12	1:B:467:LYS:HA	1.92	0.52
1:B:1451:LYS:HE2	1:B:1463:GLU:OE2	2.10	0.52
1:C:799:LEU:HD12	1:C:821:LEU:HB3	1.91	0.52
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.27	0.52
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.09	0.52
1:C:1686:PRO:HB2	1:C:1713:PHE:HD1	1.72	0.52
1:D:405:TRP:CH2	1:D:1609:SER:HB3	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:551:LEU:C	1:D:551:LEU:HD23	2.29	0.52
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.10	0.52
1:E:868:VAL:CG1	1:E:908:ILE:HD11	2.37	0.52
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.30	0.52
2:G:159:PHE:HA	2:G:162:ALA:HB3	1.92	0.52
2:G:747:ARG:NH1	2:G:780:SER:HB3	2.24	0.52
2:G:792:LEU:O	2:G:792:LEU:HD12	2.09	0.52
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.92	0.52
2:H:388:ASN:HD22	2:H:389:PHE:N	2.07	0.52
2:H:409:LYS:HB3	2:H:428:PHE:CZ	2.43	0.52
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.45	0.52
2:H:1464:LEU:HD13	2:H:1468:ARG:HG3	1.92	0.52
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.90	0.52
2:H:1555:VAL:HG21	2:H:1824:LYS:HA	1.92	0.52
2:I:1120:ILE:HD13	2:I:1173:HIS:CE1	2.45	0.52
2:I:1400:GLN:HG3	2:I:1448:ARG:HH12	1.74	0.52
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.90	0.52
2:J:868:LEU:O	2:J:870:THR:HG23	2.09	0.52
2:J:1340:LYS:HE3	2:L:376:ARG:NH2	2.23	0.52
2:J:1403:ALA:HB2	2:J:1447:GLN:HG3	1.92	0.52
2:J:1653:LEU:CD2	2:J:1667:VAL:HG13	2.40	0.52
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.09	0.52
2:K:38:PRO:HG2	2:K:41:LEU:HD12	1.90	0.52
2:K:888:ARG:O	2:K:891:ARG:HB2	2.10	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.25	0.52
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.92	0.52
2:L:271:GLU:H	2:L:274:GLU:HG3	1.74	0.52
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.24	0.52
2:L:1653:LEU:CD2	2:L:1667:VAL:HG13	2.39	0.52
1:A:427:ARG:HG3	1:A:427:ARG:NH1	2.06	0.52
1:A:631:LYS:O	1:A:635:ILE:HG22	2.09	0.52
1:A:1038:HIS:O	1:A:1048:SER:HA	2.09	0.52
1:B:1213:VAL:CG1	1:B:1214:HIS:N	2.72	0.52
1:B:1223:GLY:CA	1:B:1276:PRO:HD2	2.40	0.52
1:C:843:VAL:O	1:C:843:VAL:HG22	2.09	0.52
1:C:888:ILE:HA	1:C:891:LEU:HD12	1.91	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
1:D:1640:LYS:HG3	1:D:1641:TYR:HD1	1.72	0.52
1:E:358:PHE:C	1:E:358:PHE:CD2	2.82	0.52
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.63	0.52
2:G:934:VAL:O	2:G:938:MET:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1009:ASN:HB2	2:G:1012:ASP:OD2	2.10	0.52
2:G:1947:LYS:HG2	2:G:1993:PHE:CD1	2.45	0.52
2:G:2059:HIS:HB2	2:G:2067:ILE:HG21	1.92	0.52
2:H:161:ALA:HB1	2:H:166:ASN:HB2	1.90	0.52
2:H:192:THR:O	2:H:194:PRO:HD3	2.10	0.52
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.75	0.52
2:H:1180:VAL:HG11	2:H:1187:PHE:CG	2.45	0.52
2:H:1194:ARG:NH2	2:H:1601:ASN:CG	2.62	0.52
2:H:1231:THR:HG23	2:H:1595:VAL:CG2	2.34	0.52
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.43	0.52
2:I:388:ASN:HD22	2:I:389:PHE:N	2.08	0.52
2:I:524:ILE:HA	2:I:527:LEU:HD12	1.92	0.52
2:I:931:TYR:O	2:I:935:VAL:HG12	2.09	0.52
2:J:571:ASP:OD1	2:J:573:VAL:HG23	2.09	0.52
2:J:727:VAL:HA	2:J:730:ILE:HG12	1.90	0.52
2:J:979:LEU:HB2	2:J:996:ILE:HG23	1.90	0.52
2:J:1224:GLN:HA	2:J:1224:GLN:OE1	2.09	0.52
2:J:1445:THR:CG2	2:J:1498:PHE:HB2	2.40	0.52
2:K:31:LEU:HB2	2:K:72:VAL:HG22	1.92	0.52
2:K:77:ALA:O	2:K:139:ALA:HB1	2.09	0.52
2:K:186:LEU:HD23	2:K:256:VAL:HG13	1.92	0.52
2:K:271:GLU:HB2	2:K:274:GLU:HG3	1.92	0.52
2:K:917:ARG:HD3	2:K:937:ARG:CZ	2.40	0.52
2:K:1171:TRP:CD1	2:K:1172:ARG:N	2.78	0.52
2:K:1750:GLY:O	2:K:1755:LYS:HE3	2.09	0.52
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.10	0.52
2:K:2044:THR:HG22	2:K:2046:LYS:H	1.73	0.52
2:L:83:VAL:O	2:L:87:VAL:HG23	2.10	0.52
2:L:825:SER:CB	2:L:1053:ILE:HG13	2.40	0.52
2:L:1083:ILE:HA	2:L:1086:ILE:HG13	1.92	0.52
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.74	0.52
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.36	0.52
1:A:799:LEU:HD12	1:A:821:LEU:HB3	1.91	0.52
1:A:1052:ASP:O	1:A:1055:THR:O	2.28	0.52
1:A:1386:THR:HB	1:E:1269:SER:O	2.09	0.52
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.10	0.52
1:B:905:LEU:HD22	1:B:911:LEU:CD2	2.38	0.52
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.10	0.52
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.37	0.52
1:B:1337:PRO:HA	1:B:1340:MET:HG3	1.92	0.52
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:565:GLN:HG2	1:C:565:GLN:O	2.09	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.39	0.52
1:C:1183:VAL:HG13	1:C:1252:GLU:OE1	2.10	0.52
1:C:1670:HIS:CE1	2:I:1009:ASN:ND2	2.77	0.52
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.91	0.52
1:E:662:ALA:HA	1:E:694:TYR:CZ	2.44	0.52
1:E:1218:VAL:HG22	1:E:1301:VAL:CG1	2.40	0.52
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.44	0.52
2:G:21:LEU:HD13	2:G:36:LEU:HD21	1.91	0.52
2:G:161:ALA:HB1	2:G:166:ASN:HB2	1.92	0.52
2:G:374:GLU:CA	2:G:377:HIS:CD2	2.81	0.52
2:G:376:ARG:HE	2:H:1339:GLY:HA2	1.74	0.52
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.45	0.52
2:G:875:PHE:O	2:G:878:GLU:HB2	2.09	0.52
2:H:172:ILE:HG22	2:H:514:VAL:O	2.09	0.52
2:H:741:LEU:O	2:H:741:LEU:CG	2.58	0.52
2:H:747:ARG:NH1	2:H:780:SER:O	2.43	0.52
2:H:938:MET:O	2:H:942:MET:HG3	2.10	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.40	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.24	0.52
2:I:663:ILE:HD12	2:I:663:ILE:N	2.22	0.52
2:I:1207:THR:O	2:I:1215:THR:HG23	2.09	0.52
2:I:1610:MET:HE2	2:I:1610:MET:CA	2.33	0.52
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.89	0.52
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.41	0.52
2:J:1074:LYS:HG3	2:J:1075:TYR:CD1	2.45	0.52
2:J:1753:ARG:HG3	2:J:1756:ILE:CD1	2.40	0.52
2:K:699:ILE:H	2:K:699:ILE:HD12	1.74	0.52
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.39	0.52
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.25	0.52
2:K:1517:LEU:HD12	2:K:1521:GLU:HB2	1.90	0.52
2:K:1963:GLU:HA	2:K:1966:ARG:HB3	1.90	0.52
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.24	0.52
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.39	0.52
2:L:460:ILE:O	2:L:486:ILE:HB	2.09	0.52
2:L:820:LYS:HG3	2:L:821:GLU:HG2	1.92	0.52
2:L:1157:VAL:HG22	2:L:1198:PRO:HD2	1.92	0.52
2:L:2044:THR:HG22	2:L:2046:LYS:H	1.74	0.52
1:A:551:LEU:HD21	1:F:562:SER:CB	2.39	0.52
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.45	0.52
1:A:1213:VAL:HG22	1:A:1300:ARG:CZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.45	0.52
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.45	0.52
1:A:1565:PRO:O	1:A:1566:LYS:C	2.47	0.52
1:C:519:PHE:O	1:C:523:VAL:HG23	2.09	0.52
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.40	0.52
1:D:1211:LYS:HE3	1:D:1711:LEU:HD21	1.92	0.52
1:E:766:ALA:HA	1:E:769:ILE:HD12	1.92	0.52
1:F:1084:GLU:H	1:F:1084:GLU:CD	2.13	0.52
1:F:1451:LYS:HA	1:F:1454:ARG:NH2	2.25	0.52
2:G:460:ILE:O	2:G:486:ILE:HB	2.08	0.52
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.92	0.52
2:G:979:LEU:HB2	2:G:996:ILE:HG23	1.92	0.52
2:G:1299:VAL:HG13	2:G:1301:PHE:CE1	2.45	0.52
2:G:1804:GLN:HB3	2:G:1861:PHE:CE1	2.45	0.52
2:H:271:GLU:H	2:H:274:GLU:HG3	1.75	0.52
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.10	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.93	0.52
2:J:35:PHE:HZ	2:J:104:LEU:HB3	1.75	0.52
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.39	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.08	0.52
2:J:1171:TRP:CD1	2:J:1172:ARG:N	2.78	0.52
2:J:1248:GLU:OE1	2:J:1248:GLU:HA	2.10	0.52
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.40	0.52
2:K:250:PHE:O	2:K:315:LEU:HD23	2.10	0.52
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.45	0.52
2:K:930:THR:O	2:K:934:VAL:HG23	2.09	0.52
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.92	0.52
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.92	0.52
2:L:735:PRO:HA	2:L:773:ASN:OD1	2.10	0.52
2:L:907:ASN:OD1	2:L:913:VAL:HG12	2.09	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.23	0.52
1:A:983:GLN:O	1:A:987:MET:HG3	2.10	0.52
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.40	0.52
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.37	0.52
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.92	0.52
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.45	0.52
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.40	0.52
1:C:983:GLN:O	1:C:987:MET:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:408:GLN:HG2	1:E:1610:ARG:NH1	2.25	0.52
1:E:799:LEU:HD12	1:E:821:LEU:HB3	1.91	0.52
1:E:997:THR:CG2	1:E:1361:VAL:HG22	2.40	0.52
1:F:22:PHE:HE2	2:L:2017:PHE:CB	2.22	0.52
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.93	0.52
1:F:1580:VAL:O	1:F:1617:ILE:HD11	2.09	0.52
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.40	0.52
2:H:656:ARG:HG2	2:H:656:ARG:NH1	2.24	0.52
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.92	0.52
2:H:1795:SER:HB3	2:H:1799:LEU:HD12	1.92	0.52
2:H:2005:PHE:HA	2:H:2010:LEU:HD11	1.92	0.52
2:I:161:ALA:HB1	2:I:166:ASN:HB2	1.91	0.52
2:I:204:ILE:HG23	2:I:312:VAL:HG11	1.91	0.52
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.45	0.52
2:I:1725:HIS:CD2	2:I:1854:GLU:CB	2.93	0.52
2:J:22:ARG:HD2	2:J:42:HIS:HB3	1.92	0.52
2:J:285:HIS:CD2	2:J:501:TRP:CE3	2.98	0.52
2:J:699:ILE:HD12	2:J:699:ILE:N	2.24	0.52
2:J:752:HIS:CE1	2:J:856:THR:HG21	2.45	0.52
2:K:776:LEU:HG	2:K:807:PHE:CE2	2.45	0.52
2:K:938:MET:HE2	2:K:959:THR:HG22	1.91	0.52
2:K:979:LEU:HB2	2:K:996:ILE:HG23	1.92	0.52
2:K:1500:ASN:HB2	2:K:1503:VAL:H	1.76	0.52
2:L:271:GLU:HB2	2:L:274:GLU:HG3	1.92	0.52
2:L:1171:TRP:CH2	2:L:1236:LEU:HB2	2.44	0.52
1:A:469:LEU:O	1:A:472:GLN:HB3	2.09	0.51
1:A:907:PHE:O	1:A:909:PRO:HD3	2.10	0.51
1:A:1090:ASP:OD1	1:A:1092:ASN:HB2	2.10	0.51
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.10	0.51
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	1.92	0.51
1:D:911:LEU:O	1:D:911:LEU:HD12	2.09	0.51
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.10	0.51
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.92	0.51
1:F:1014:MET:O	1:F:1590:ARG:NH2	2.37	0.51
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.07	0.51
2:G:505:THR:O	2:G:505:THR:HG22	2.09	0.51
2:G:1203:TYR:HB3	2:G:1220:ARG:HB2	1.91	0.51
2:G:1986:PRO:O	2:G:1987:VAL:HB	2.11	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.92	0.51
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.10	0.51
2:H:2044:THR:HG22	2:H:2046:LYS:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:726:GLN:O	2:I:730:ILE:HG12	2.10	0.51
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.92	0.51
2:J:21:LEU:HA	2:J:37:VAL:O	2.10	0.51
2:J:289:ILE:HG12	2:J:493:MET:CE	2.40	0.51
2:J:834:ASP:O	2:J:836:PRO:HD3	2.10	0.51
2:J:1128:PRO:HG2	2:J:1135:ALA:CB	2.41	0.51
2:J:1370:LEU:CD1	2:J:1373:LEU:HD13	2.38	0.51
2:J:1643:VAL:CG1	2:J:1649:ILE:HD11	2.40	0.51
2:K:44:GLN:HG3	2:K:101:VAL:CG2	2.39	0.51
2:K:608:MET:HA	4:K:2101:FMN:N5	2.25	0.51
2:K:1026:LYS:HE2	2:K:1045:ASP:OD2	2.10	0.51
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	2.10	0.51
2:K:1740:ASN:O	2:K:1742:PRO:HD3	2.10	0.51
2:K:2053:GLU:HA	2:K:2056:GLU:OE1	2.10	0.51
2:L:600:VAL:HG13	2:L:601:PRO:N	2.25	0.51
2:L:825:SER:O	2:L:828:ALA:HB3	2.10	0.51
2:L:930:THR:HA	2:L:1007:LEU:HA	1.90	0.51
2:L:1231:THR:CG2	2:L:1595:VAL:HG11	2.39	0.51
2:L:1232:VAL:HA	2:L:1245:THR:O	2.10	0.51
1:A:408:GLN:HE22	1:A:1610:ARG:H	1.58	0.51
1:A:828:TRP:HE1	1:A:838:THR:HA	1.74	0.51
1:B:754:ARG:N	1:B:810:ASN:HB3	2.25	0.51
1:B:759:ILE:HG12	1:B:813:LEU:HD23	1.93	0.51
1:C:21:GLN:O	2:I:2006:HIS:HD2	1.93	0.51
1:C:687:PHE:C	1:C:687:PHE:CD2	2.84	0.51
1:C:1580:VAL:O	1:C:1617:ILE:HD11	2.09	0.51
1:C:1674:ILE:HD12	2:I:1010:ALA:CB	2.40	0.51
1:D:1514:ILE:HD13	1:D:1545:LEU:HB3	1.91	0.51
1:E:1337:PRO:HA	1:E:1340:MET:CG	2.40	0.51
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.92	0.51
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.73	0.51
2:G:256:VAL:O	2:G:260:HIS:CD2	2.63	0.51
2:G:285:HIS:CD2	2:G:501:TRP:CE3	2.99	0.51
2:G:616:ASP:OD2	2:G:823:HIS:NE2	2.44	0.51
2:G:861:MET:HB2	2:G:863:GLU:HG2	1.91	0.51
2:G:1890:ARG:HB3	2:G:1994:ALA:HB2	1.93	0.51
2:H:192:THR:C	2:H:194:PRO:HD3	2.29	0.51
2:H:271:GLU:HB2	2:H:274:GLU:HG3	1.92	0.51
2:H:290:VAL:HG13	2:H:314:LEU:HD23	1.92	0.51
2:H:818:THR:HA	2:H:829:LYS:HE2	1.93	0.51
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:962:PHE:O	2:H:965:ARG:HB3	2.10	0.51
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.92	0.51
2:I:38:PRO:HG2	2:I:41:LEU:HD12	1.91	0.51
2:I:1468:ARG:NH1	2:I:1475:LEU:HD22	2.25	0.51
2:J:76:VAL:O	2:J:80:ILE:HG13	2.11	0.51
2:J:1963:GLU:HA	2:J:1966:ARG:HB3	1.92	0.51
2:K:155:ASP:HB3	2:K:278:ARG:NH1	2.25	0.51
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.51
2:K:824:THR:HG22	2:K:828:ALA:HB3	1.92	0.51
2:K:1411:LYS:HB3	2:K:1435:TYR:HB2	1.90	0.51
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.93	0.51
2:L:388:ASN:HD22	2:L:389:PHE:N	2.09	0.51
2:L:752:HIS:NE2	2:L:856:THR:HG22	2.25	0.51
2:L:931:TYR:O	2:L:935:VAL:HG12	2.10	0.51
2:L:966:VAL:O	2:L:970:PHE:HD1	1.94	0.51
2:L:1074:LYS:HG3	2:L:1075:TYR:CD1	2.45	0.51
2:L:1729:ASN:O	2:L:1757:ILE:HG23	2.10	0.51
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.74	0.51
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.92	0.51
1:B:448:MET:HA	1:B:448:MET:HE3	1.92	0.51
1:B:943:VAL:CG2	2:H:1539:PRO:HG3	2.40	0.51
1:D:843:VAL:HG22	1:D:843:VAL:O	2.10	0.51
1:E:1218:VAL:O	1:E:1271:GLY:HA3	2.09	0.51
1:F:673:LEU:HD21	1:F:884:MET:CE	2.41	0.51
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.10	0.51
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.91	0.51
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.40	0.51
2:G:1266:HIS:CD2	2:G:1275:ARG:CZ	2.94	0.51
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.25	0.51
2:G:1421:ARG:HD2	2:G:1426:VAL:CG2	2.40	0.51
2:G:1872:GLU:OE1	2:G:1872:GLU:HA	2.09	0.51
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.92	0.51
2:I:208:LEU:HD12	2:I:227:ILE:CD1	2.38	0.51
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.91	0.51
2:I:613:VAL:N	2:I:614:PRO:CD	2.73	0.51
2:I:699:ILE:HD12	2:I:699:ILE:N	2.26	0.51
2:I:1411:LYS:HB2	2:I:1439:TYR:CD1	2.45	0.51
2:J:92:GLU:HB3	2:J:95:HIS:NE2	2.26	0.51
2:J:460:ILE:O	2:J:486:ILE:HB	2.10	0.51
2:J:1232:VAL:HA	2:J:1245:THR:O	2.11	0.51
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1473:PHE:HE1	2:J:1513:VAL:HG21	1.75	0.51
2:K:489:GLU:O	2:K:493:MET:HG3	2.11	0.51
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.92	0.51
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.44	0.51
2:K:1299:VAL:HG22	2:K:1301:PHE:CD1	2.46	0.51
2:L:752:HIS:CE1	2:L:856:THR:HG21	2.45	0.51
2:L:1028:VAL:HG13	2:L:1030:PHE:CD2	2.46	0.51
2:L:1217:ILE:O	2:L:1233:GLU:HA	2.10	0.51
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.10	0.51
1:A:1494:TRP:HE1	1:A:1509:THR:HG21	1.74	0.51
1:A:1584:GLY:HA2	1:A:1617:ILE:CD1	2.41	0.51
1:B:1386:THR:HG22	1:B:1629:GLN:HE21	1.74	0.51
1:B:1565:PRO:O	1:B:1567:GLY:N	2.43	0.51
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.25	0.51
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.45	0.51
1:C:1386:THR:HG22	1:C:1629:GLN:HE21	1.76	0.51
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.45	0.51
1:D:498:THR:HG21	1:D:858:LEU:O	2.11	0.51
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.76	0.51
1:D:1670:HIS:CE1	2:J:1009:ASN:ND2	2.79	0.51
1:E:904:GLY:HA2	1:E:906:GLN:OE1	2.11	0.51
1:E:956:ILE:HA	2:K:977:PRO:HA	1.93	0.51
1:E:1090:ASP:OD1	1:E:1092:ASN:HB2	2.10	0.51
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.45	0.51
1:F:1131:GLU:HG2	1:F:1138:TYR:CE2	2.46	0.51
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.92	0.51
2:H:21:LEU:HD13	2:H:36:LEU:HD21	1.93	0.51
2:H:285:HIS:CD2	2:H:501:TRP:CE3	2.98	0.51
2:H:837:GLY:HA3	2:H:1074:LYS:HG2	1.91	0.51
2:H:1171:TRP:CH2	2:H:1236:LEU:HB2	2.45	0.51
2:H:1594:ARG:NH1	2:H:1594:ARG:CG	2.64	0.51
2:I:285:HIS:CD2	2:I:501:TRP:CE3	2.98	0.51
2:I:917:ARG:HD3	2:I:937:ARG:CZ	2.39	0.51
2:I:1104:ASP:OD1	2:I:1104:ASP:N	2.44	0.51
2:I:1753:ARG:HG3	2:I:1756:ILE:HD11	1.93	0.51
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.24	0.51
2:J:1047:LEU:H	2:J:1047:LEU:HD12	1.76	0.51
2:J:1725:HIS:CD2	2:J:1854:GLU:HB3	2.46	0.51
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.93	0.51
2:K:1551:ILE:CG2	2:K:1552:GLU:N	2.73	0.51
2:K:1986:PRO:O	2:K:1987:VAL:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2013:GLY:C	2:K:2016:PRO:HD2	2.31	0.51
1:A:450:TYR:C	1:A:450:TYR:CD2	2.84	0.51
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.25	0.51
1:A:868:VAL:CG1	1:A:908:ILE:HD11	2.36	0.51
1:A:965:TYR:OH	1:A:1199:LEU:HD22	2.09	0.51
1:A:1218:VAL:O	1:A:1271:GLY:HA3	2.11	0.51
1:A:1448:ALA:CA	1:A:1451:LYS:HE3	2.35	0.51
1:B:498:THR:HG21	1:B:858:LEU:O	2.11	0.51
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.09	0.51
1:B:1640:LYS:HG3	1:B:1641:TYR:HD1	1.73	0.51
1:C:24:MET:HE2	2:I:2043:VAL:HG12	1.93	0.51
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.74	0.51
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.10	0.51
1:D:782:LYS:NZ	1:D:786:LYS:HD2	2.26	0.51
1:D:1451:LYS:HE2	1:D:1463:GLU:OE2	2.10	0.51
1:E:628:TYR:OH	1:E:630:LYS:HE2	2.10	0.51
1:E:1050:TRP:HA	1:E:1050:TRP:CE3	2.46	0.51
1:F:1042:LEU:HD12	1:F:1058:PRO:HG3	1.92	0.51
2:G:196:PHE:H	2:G:196:PHE:HD2	1.56	0.51
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.40	0.51
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.74	0.51
2:G:1350:ILE:HG22	2:G:1429:VAL:HG11	1.93	0.51
2:G:1411:LYS:HB3	2:G:1435:TYR:HB2	1.91	0.51
2:H:459:LYS:O	2:H:461:PRO:HD3	2.11	0.51
2:H:1891:ILE:HD12	2:H:1895:PHE:CE2	2.45	0.51
2:I:752:HIS:CE1	2:I:856:THR:HG21	2.46	0.51
2:I:1982:ALA:O	2:I:1984:PRO:HD3	2.10	0.51
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.41	0.51
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.25	0.51
2:J:1217:ILE:O	2:J:1233:GLU:HA	2.10	0.51
2:J:1610:MET:HE2	2:J:1610:MET:CA	2.28	0.51
2:K:376:ARG:HH22	2:L:1340:LYS:HE3	1.75	0.51
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.92	0.51
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.09	0.51
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.92	0.51
1:A:1083:PRO:HD2	1:A:1084:GLU:OE2	2.10	0.51
1:B:579:MET:HE2	1:E:612:ILE:HD12	1.91	0.51
1:B:1213:VAL:HG22	1:B:1300:ARG:CZ	2.40	0.51
1:C:418:ILE:HG22	1:C:418:ILE:O	2.11	0.51
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.38	0.51
1:C:1132:ILE:HD12	1:C:1137:GLN:HB2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1306:GLY:O	1:C:1357:CYS:HB2	2.10	0.51
1:D:853:MET:HG2	1:D:856:ASN:ND2	2.26	0.51
1:D:857:ASN:HA	1:D:860:ALA:HB2	1.92	0.51
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.10	0.51
1:E:36:LEU:HD22	1:E:61:LEU:HD21	1.93	0.51
1:E:336:PHE:O	1:E:339:GLN:HB2	2.10	0.51
1:E:1565:PRO:O	1:E:1567:GLY:N	2.44	0.51
1:F:684:THR:HG21	1:F:691:VAL:HG11	1.93	0.51
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.09	0.51
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.43	0.51
2:G:187:ARG:NH2	2:G:230:TRP:O	2.44	0.51
2:G:376:ARG:HH22	2:H:1340:LYS:HE3	1.75	0.51
2:G:613:VAL:N	2:G:614:PRO:CD	2.73	0.51
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.26	0.51
2:H:699:ILE:H	2:H:699:ILE:CD1	2.24	0.51
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	1.93	0.51
2:I:1637:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.51
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.41	0.51
2:J:272:PRO:HG2	2:J:300:THR:O	2.10	0.51
2:J:735:PRO:HA	2:J:773:ASN:OD1	2.10	0.51
2:J:1123:ALA:O	2:J:1126:GLU:HG3	2.11	0.51
2:K:21:LEU:HD13	2:K:36:LEU:HD21	1.92	0.51
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.92	0.51
2:L:283:THR:HG23	2:L:470:TYR:O	2.11	0.51
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.72	0.51
2:L:700:GLU:H	2:L:700:GLU:CD	2.14	0.51
2:L:751:HIS:HB2	3:L:2102:NAP:N7N	2.24	0.51
2:L:1384:PRO:CB	2:L:1829:ARG:HH12	2.24	0.51
2:L:1384:PRO:HB3	2:L:1829:ARG:NH1	2.26	0.51
2:L:1887:ASN:OD1	2:L:1889:SER:HB2	2.11	0.51
2:L:1932:ASP:O	2:L:1936:LEU:HD23	2.10	0.51
1:A:1451:LYS:HA	1:A:1454:ARG:NH2	2.26	0.51
1:B:441:ASN:HB2	1:B:444:LEU:H	1.76	0.51
1:B:1542:LEU:HD22	1:B:1547:ARG:HD3	1.92	0.51
1:C:6:GLU:HA	2:I:2050:ILE:HD11	1.92	0.51
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.92	0.51
1:D:1691:ILE:HG22	1:D:1695:VAL:HG23	1.92	0.51
1:E:329:THR:O	1:E:332:GLN:HB2	2.10	0.51
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.92	0.51
1:E:571:LYS:O	1:E:575:ARG:HG2	2.11	0.51
1:F:875:GLU:O	1:F:878:PHE:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:960:ARG:HH11	1:F:960:ARG:HG3	1.76	0.51
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.92	0.51
2:G:751:HIS:HB2	3:G:2102:NAP:N7N	2.26	0.51
2:G:1157:VAL:HG13	2:G:1197:ALA:HA	1.92	0.51
2:H:43:PHE:CE1	2:I:42:HIS:CE1	2.98	0.51
2:H:600:VAL:HG13	2:H:601:PRO:N	2.26	0.51
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.91	0.51
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.41	0.51
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.25	0.51
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.40	0.51
2:I:1246:LEU:HD11	2:I:1261:PHE:HE1	1.75	0.51
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.46	0.51
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.51
2:J:1028:VAL:HG13	2:J:1030:PHE:CD2	2.46	0.51
2:J:1370:LEU:CA	2:J:1435:TYR:HE2	2.24	0.51
2:J:1436:ARG:HH22	2:J:1602:LEU:CD1	2.24	0.51
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.11	0.51
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.36	0.51
2:K:912:LYS:HB3	2:K:1030:PHE:HA	1.93	0.51
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.45	0.51
2:K:1203:TYR:HB3	2:K:1220:ARG:HB2	1.91	0.51
2:K:2021:LEU:O	2:K:2025:ILE:HG13	2.09	0.51
2:L:608:MET:H	2:L:612:THR:CB	2.23	0.51
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.51
2:L:903:ILE:HD11	2:L:914:TRP:CZ2	2.45	0.51
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.40	0.51
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.39	0.51
1:A:1229:THR:HB	1:A:1311:GLN:HG3	1.92	0.51
1:B:911:LEU:O	1:B:911:LEU:HD12	2.11	0.51
1:C:846:TRP:HZ2	1:C:856:ASN:O	1.93	0.51
1:D:673:LEU:HD21	1:D:884:MET:CE	2.41	0.51
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.11	0.51
1:F:506:ILE:HD11	1:F:926:SER:CB	2.38	0.51
1:F:537:ASN:O	1:F:541:VAL:HG23	2.10	0.51
1:F:751:GLU:OE1	1:F:770:MET:HE1	2.11	0.51
1:F:868:VAL:CG1	1:F:908:ILE:HD11	2.34	0.51
1:F:929:ARG:O	1:F:933:ILE:HG13	2.11	0.51
1:F:987:MET:O	1:F:1490:GLY:HA3	2.11	0.51
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.92	0.51
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.25	0.51
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.46	0.51
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.76	0.51
2:H:379:GLY:O	2:H:391:VAL:HG13	2.11	0.51
2:H:735:PRO:HA	2:H:773:ASN:OD1	2.10	0.51
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.10	0.51
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.09	0.51
2:H:980:LEU:HD22	2:H:986:LEU:HD21	1.93	0.51
2:H:1171:TRP:CD1	2:H:1172:ARG:N	2.78	0.51
2:H:1947:LYS:HG2	2:H:1993:PHE:CD1	2.46	0.51
2:I:861:MET:HB2	2:I:863:GLU:HG2	1.91	0.51
2:I:1083:ILE:HA	2:I:1086:ILE:HG13	1.92	0.51
2:I:1217:ILE:O	2:I:1233:GLU:HA	2.11	0.51
2:I:1709:TYR:C	2:I:1709:TYR:CD2	2.83	0.51
2:J:202:THR:O	2:J:206:GLU:HG3	2.11	0.51
2:J:271:GLU:HB2	2:J:274:GLU:HG3	1.93	0.51
2:J:825:SER:O	2:J:828:ALA:HB3	2.10	0.51
2:J:1067:LEU:HB2	4:J:2101:FMN:HM71	1.92	0.51
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.40	0.51
2:J:1156:ASP:HB2	2:J:1159:SER:H	1.74	0.51
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.11	0.51
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.75	0.51
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.74	0.51
2:K:1411:LYS:HE3	2:K:1441:ASP:OD2	2.11	0.51
2:K:1521:GLU:OE2	2:K:2028:THR:HG21	2.11	0.51
2:K:1725:HIS:CD2	2:K:1854:GLU:HB3	2.46	0.51
2:L:159:PHE:HA	2:L:162:ALA:HB3	1.91	0.51
2:L:1405:ILE:HA	2:L:1445:THR:OG1	2.11	0.51
2:L:1930:ALA:HB1	2:L:2004:PRO:HB3	1.93	0.51
1:A:847:THR:OG1	1:A:876:MET:HG3	2.11	0.51
1:A:881:LEU:O	1:A:884:MET:HB2	2.11	0.51
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.91	0.51
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.25	0.51
1:A:1107:GLU:HG3	1:A:1108:PRO:CD	2.37	0.51
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.09	0.51
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.46	0.51
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.92	0.51
1:D:1017:TYR:N	1:D:1017:TYR:HD1	2.09	0.51
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.92	0.51
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.73	0.51
1:E:1229:THR:HB	1:E:1311:GLN:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1708:ASN:OD1	1:E:1708:ASN:N	2.40	0.51
1:F:1050:TRP:HA	1:F:1050:TRP:CE3	2.46	0.51
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.40	0.51
2:G:1375:HIS:CE1	2:G:1610:MET:SD	3.02	0.51
2:H:585:VAL:O	2:H:585:VAL:HG12	2.11	0.51
2:I:159:PHE:HA	2:I:162:ALA:HB3	1.92	0.51
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.46	0.51
2:I:779:GLY:HA3	2:I:811:MET:CE	2.38	0.51
2:I:929:MET:HE1	2:I:934:VAL:HG22	1.92	0.51
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.76	0.51
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.93	0.51
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.45	0.51
2:J:756:ASP:CA	2:J:843:TRP:HH2	2.24	0.51
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.93	0.51
2:J:1947:LYS:HG2	2:J:1993:PHE:CD1	2.46	0.51
2:J:1986:PRO:O	2:J:1987:VAL:HB	2.11	0.51
2:K:35:PHE:HD2	2:K:37:VAL:HG22	1.76	0.51
2:K:283:THR:HG23	2:K:470:TYR:O	2.11	0.51
2:K:728:ILE:HG22	2:K:732:LYS:HE3	1.93	0.51
2:K:781:GLY:CA	2:K:1071:VAL:HG13	2.41	0.51
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.94	0.51
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.51
2:K:1175:MET:O	2:K:1192:LEU:HD12	2.11	0.51
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.03	0.51
2:L:1725:HIS:CD2	2:L:1854:GLU:HB3	2.45	0.51
2:L:2039:TYR:O	2:L:2041:PRO:HD3	2.10	0.51
1:A:955:VAL:HG11	2:G:964:ARG:HE	1.76	0.51
1:A:1129:ILE:HA	1:A:1139:THR:O	2.11	0.51
1:A:1335:ARG:HH11	1:A:1339:GLU:HG2	1.75	0.51
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.93	0.51
1:B:755:GLU:HB2	1:B:757:ASP:HB2	1.92	0.51
1:C:334:ALA:O	1:C:338:GLN:HG3	2.11	0.51
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.91	0.51
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.46	0.51
1:C:1495:ARG:HG2	1:C:1495:ARG:HH11	1.76	0.51
1:D:716:GLN:NE2	1:D:747:ALA:HB3	2.26	0.51
1:D:868:VAL:HG11	1:D:908:ILE:CD1	2.36	0.51
1:D:967:PHE:CE2	1:D:1662:GLN:CA	2.94	0.51
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.10	0.51
1:D:1443:LEU:HD22	1:D:1474:ILE:HD11	1.92	0.51
1:E:768:ARG:HA	1:E:772:THR:OG1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1017:TYR:N	1:F:1017:TYR:HD1	2.09	0.51
1:F:1443:LEU:HD22	1:F:1474:ILE:HD11	1.92	0.51
1:F:1448:ALA:CA	1:F:1451:LYS:HE3	2.36	0.51
2:G:35:PHE:HZ	2:G:104:LEU:HB3	1.75	0.51
2:G:92:GLU:HB3	2:G:95:HIS:NE2	2.26	0.51
2:G:315:LEU:HA	2:G:318:ILE:HD12	1.94	0.51
2:G:798:THR:HA	2:G:802:TYR:O	2.11	0.51
2:G:930:THR:CG2	2:G:933:GLU:H	2.23	0.51
2:G:1180:VAL:HG11	2:G:1187:PHE:CG	2.45	0.51
2:G:1551:ILE:CG2	2:G:1552:GLU:N	2.74	0.51
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.39	0.51
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.92	0.51
2:I:979:LEU:HB2	2:I:996:ILE:HG23	1.91	0.51
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.26	0.51
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.45	0.51
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.11	0.51
2:J:1047:LEU:HD12	2:J:1047:LEU:N	2.26	0.51
2:K:329:THR:HG22	2:L:1331:THR:O	2.11	0.51
2:K:1019:LEU:HA	2:K:1022:ARG:HD2	1.92	0.51
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.93	0.51
2:L:409:LYS:HB3	2:L:428:PHE:CZ	2.45	0.51
2:L:611:THR:HA	2:L:1051:GLU:OE2	2.11	0.51
2:L:911:GLN:NE2	2:L:1065:CYS:H	2.09	0.51
2:L:1538:ASN:HB3	2:L:1541:ILE:CG2	2.41	0.51
1:A:524:LYS:O	1:A:527:ALA:N	2.44	0.50
1:A:533:SER:O	1:A:611:THR:HA	2.11	0.50
1:A:911:LEU:O	1:A:911:LEU:HD12	2.11	0.50
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.40	0.50
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.50
1:B:1084:GLU:CD	1:B:1084:GLU:H	2.14	0.50
1:C:382:ILE:HD12	1:C:761:SER:HB3	1.92	0.50
1:C:498:THR:CG2	1:C:858:LEU:HA	2.36	0.50
1:C:1514:ILE:HD13	1:C:1545:LEU:HB3	1.93	0.50
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.92	0.50
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.26	0.50
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.24	0.50
1:F:22:PHE:HE1	2:L:1867:MET:HG3	1.76	0.50
1:F:755:GLU:HB2	1:F:757:ASP:HB2	1.92	0.50
2:G:608:MET:HA	4:G:2101:FMN:N5	2.25	0.50
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.41	0.50
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1553:GLN:HB3	2:G:1554:PRO:CD	2.41	0.50
2:H:728:ILE:O	2:H:732:LYS:HG3	2.11	0.50
2:H:950:TRP:CE2	2:H:956:LYS:HG3	2.46	0.50
2:I:167:VAL:CG2	2:I:169:ILE:HG13	2.40	0.50
2:I:1248:GLU:OE2	2:I:1250:ARG:NE	2.43	0.50
2:J:290:VAL:CG1	2:J:314:LEU:HD23	2.41	0.50
2:J:1551:ILE:CG2	2:J:1552:GLU:N	2.74	0.50
2:J:2057:GLU:HA	2:J:2060:ARG:HH12	1.74	0.50
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.76	0.50
2:K:611:THR:HA	2:K:1051:GLU:OE2	2.11	0.50
2:K:614:PRO:O	2:K:618:VAL:HG12	2.11	0.50
2:K:859:SER:HB3	2:K:863:GLU:HG3	1.92	0.50
2:K:1171:TRP:CE3	2:K:1236:LEU:HD22	2.46	0.50
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.50
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.92	0.50
2:L:604:MET:CE	2:L:811:MET:HB2	2.41	0.50
2:L:727:VAL:HA	2:L:730:ILE:HG12	1.93	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.11	0.50
2:L:1370:LEU:CD1	2:L:1373:LEU:HD13	2.40	0.50
2:L:1411:LYS:HB3	2:L:1435:TYR:HB2	1.92	0.50
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.11	0.50
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.11	0.50
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.25	0.50
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.11	0.50
1:A:1079:ARG:CG	1:A:1079:ARG:NH1	2.68	0.50
1:C:1565:PRO:O	1:C:1566:LYS:C	2.50	0.50
1:C:1584:GLY:HA2	1:C:1617:ILE:CD1	2.41	0.50
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.41	0.50
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.94	0.50
1:E:1494:TRP:HE1	1:E:1509:THR:HG21	1.75	0.50
1:F:383:TYR:O	1:F:387:ILE:HG12	2.11	0.50
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.40	0.50
1:F:1229:THR:HB	1:F:1311:GLN:HG3	1.94	0.50
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.40	0.50
2:G:490:LEU:HA	2:G:493:MET:SD	2.51	0.50
2:G:580:LEU:HG	2:G:1098:LEU:HD23	1.93	0.50
2:G:1028:VAL:HG13	2:G:1030:PHE:CD2	2.45	0.50
2:H:167:VAL:C	2:H:168:LYS:HD2	2.32	0.50
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.40	0.50
2:H:824:THR:HG22	2:H:828:ALA:HB3	1.93	0.50
2:H:966:VAL:O	2:H:970:PHE:HD1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1421:ARG:HD2	2:H:1426:VAL:CG2	2.41	0.50
2:I:76:VAL:O	2:I:80:ILE:HG13	2.10	0.50
2:I:1171:TRP:CH2	2:I:1236:LEU:HB2	2.46	0.50
2:I:1232:VAL:HA	2:I:1245:THR:O	2.11	0.50
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.10	0.50
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.40	0.50
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.77	0.50
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	1.92	0.50
2:K:21:LEU:HD22	2:K:36:LEU:HG	1.93	0.50
2:K:1845:VAL:CG2	2:K:1856:LEU:HD22	2.39	0.50
2:K:1881:TYR:CZ	2:K:2009:PHE:HE1	2.29	0.50
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.93	0.50
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.76	0.50
2:L:21:LEU:HD22	2:L:36:LEU:HG	1.91	0.50
2:L:168:LYS:H	2:L:511:THR:HB	1.76	0.50
2:L:589:PHE:CD1	2:L:1116:PHE:CD2	2.99	0.50
2:L:609:THR:HG23	4:L:2101:FMN:O4	2.11	0.50
2:L:2021:LEU:HD22	2:L:2025:ILE:HD11	1.93	0.50
1:A:883:LEU:N	1:A:883:LEU:HD23	2.27	0.50
1:B:766:ALA:HA	1:B:769:ILE:HD12	1.94	0.50
1:C:754:ARG:N	1:C:810:ASN:HB3	2.26	0.50
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.94	0.50
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.41	0.50
1:D:1307:PHE:HB3	1:D:1357:CYS:HB3	1.92	0.50
1:E:801:LEU:HD13	1:E:822:GLU:HG2	1.93	0.50
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.11	0.50
2:G:197:VAL:HA	2:G:262:MET:HE1	1.93	0.50
2:G:361:VAL:O	2:G:365:ILE:HG13	2.12	0.50
2:G:1074:LYS:HG3	2:G:1075:TYR:CD1	2.47	0.50
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.41	0.50
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.77	0.50
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.27	0.50
2:G:1328:VAL:HA	2:G:1611:TYR:HE1	1.76	0.50
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.25	0.50
2:G:1340:LYS:CG	2:I:376:ARG:NH2	2.73	0.50
2:G:1378:ASN:HB3	2:G:1610:MET:HE3	1.93	0.50
2:H:35:PHE:HD2	2:H:37:VAL:HG22	1.76	0.50
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.41	0.50
2:H:700:GLU:CD	2:H:700:GLU:H	2.14	0.50
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.76	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.11	0.50
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.93	0.50
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.41	0.50
2:I:459:LYS:O	2:I:461:PRO:HD3	2.10	0.50
2:I:489:GLU:O	2:I:493:MET:HG3	2.11	0.50
2:I:882:LYS:HB3	2:I:898:ARG:NH1	2.26	0.50
2:I:1074:LYS:HG3	2:I:1075:TYR:CD1	2.46	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.94	0.50
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	1.94	0.50
2:J:192:THR:O	2:J:194:PRO:HD3	2.11	0.50
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.93	0.50
2:J:1603:PRO:HD2	2:J:1606:ILE:HD11	1.93	0.50
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.38	0.50
2:K:663:ILE:HD12	2:K:663:ILE:N	2.26	0.50
2:K:727:VAL:HA	2:K:730:ILE:HG12	1.92	0.50
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.46	0.50
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.42	0.50
2:K:1180:VAL:HA	2:K:1188:GLN:O	2.11	0.50
2:K:1194:ARG:HH21	2:K:1601:ASN:CG	2.15	0.50
2:K:1555:VAL:HG21	2:K:1824:LYS:HA	1.94	0.50
2:K:1738:VAL:HA	2:K:1800:LEU:HD13	1.93	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG3	1.93	0.50
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.11	0.50
1:A:405:TRP:CH2	1:A:1609:SER:HB3	2.47	0.50
1:A:519:PHE:O	1:A:523:VAL:HG23	2.12	0.50
1:A:1241:LEU:HD23	1:E:1097:LEU:HD12	1.93	0.50
1:B:879:ASN:HB3	1:B:901:LEU:HD13	1.93	0.50
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.12	0.50
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.47	0.50
1:C:746:PHE:HB3	3:C:1901:NAP:H52N	1.92	0.50
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.94	0.50
1:D:799:LEU:HD12	1:D:821:LEU:HB3	1.93	0.50
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.50
1:E:414:TYR:CE2	1:E:418:ILE:HD11	2.47	0.50
1:E:940:ASN:HB3	1:E:949:GLU:OE2	2.12	0.50
1:F:408:GLN:HG2	1:F:1610:ARG:NH1	2.25	0.50
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.97	0.50
2:G:622:MET:O	2:G:656:ARG:NH1	2.44	0.50
2:G:752:HIS:CE1	2:G:856:THR:HG21	2.46	0.50
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.50
2:H:196:PHE:H	2:H:196:PHE:HD2	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2013:GLY:C	2:H:2016:PRO:HD2	2.32	0.50
2:I:950:TRP:CE2	2:I:956:LYS:HG3	2.47	0.50
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.11	0.50
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.41	0.50
2:I:1753:ARG:HG3	2:I:1756:ILE:CD1	2.42	0.50
2:J:83:VAL:O	2:J:87:VAL:HG23	2.11	0.50
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.12	0.50
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.11	0.50
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.11	0.50
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.46	0.50
2:K:317:TRP:O	2:K:321:ARG:HG2	2.11	0.50
2:K:610:PRO:HD2	4:K:2101:FMN:C6	2.26	0.50
2:K:1156:ASP:HB2	2:K:1159:SER:H	1.76	0.50
2:K:1232:VAL:HA	2:K:1245:THR:O	2.12	0.50
2:K:1768:THR:O	2:K:1776:LYS:HB2	2.12	0.50
2:L:656:ARG:HG2	2:L:656:ARG:NH1	2.26	0.50
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.93	0.50
2:L:1468:ARG:NH1	2:L:1475:LEU:HD22	2.27	0.50
2:L:1643:VAL:HG13	2:L:1649:ILE:HD11	1.93	0.50
1:A:716:GLN:NE2	1:A:747:ALA:HB3	2.27	0.50
1:C:549:TYR:HE1	1:C:567:ASN:HB3	1.76	0.50
1:E:684:THR:HG21	1:E:691:VAL:HG11	1.93	0.50
1:E:1078:ILE:HG23	1:E:1352:MET:CE	2.41	0.50
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.41	0.50
1:E:1335:ARG:HH11	1:E:1339:GLU:HG2	1.76	0.50
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.94	0.50
1:F:549:TYR:HE1	1:F:567:ASN:HB3	1.77	0.50
1:F:746:PHE:CD2	3:F:1901:NAP:H4D	2.47	0.50
1:F:956:ILE:HA	2:L:977:PRO:HA	1.93	0.50
1:F:1213:VAL:HG22	1:F:1300:ARG:CZ	2.42	0.50
2:G:700:GLU:H	2:G:700:GLU:CD	2.15	0.50
2:G:1047:LEU:N	2:G:1047:LEU:HD12	2.26	0.50
2:H:35:PHE:CD2	2:H:37:VAL:HG22	2.47	0.50
2:H:159:PHE:HA	2:H:162:ALA:HB3	1.92	0.50
2:H:291:VAL:O	2:H:295:ILE:HB	2.12	0.50
2:H:1083:ILE:HA	2:H:1086:ILE:HG13	1.94	0.50
2:H:1128:PRO:HG2	2:H:1135:ALA:CB	2.41	0.50
2:H:1603:PRO:HD2	2:H:1606:ILE:HD11	1.92	0.50
2:I:604:MET:HE1	2:I:811:MET:HB2	1.93	0.50
2:I:966:VAL:O	2:I:970:PHE:HD1	1.95	0.50
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.46	0.50
2:J:613:VAL:N	2:J:614:PRO:CD	2.75	0.50
2:J:685:VAL:CG1	2:J:687:ILE:HG13	2.40	0.50
2:J:825:SER:CB	2:J:1053:ILE:HG13	2.41	0.50
2:J:930:THR:O	2:J:934:VAL:HG23	2.11	0.50
2:J:1468:ARG:NH1	2:J:1475:LEU:HD22	2.25	0.50
2:K:825:SER:O	2:K:828:ALA:HB3	2.10	0.50
2:K:917:ARG:HB2	2:K:937:ARG:HD3	1.93	0.50
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.92	0.50
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.40	0.50
2:L:728:ILE:HG22	2:L:732:LYS:HE3	1.93	0.50
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.46	0.50
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.94	0.50
1:A:329:THR:O	1:A:332:GLN:HB2	2.12	0.50
1:B:585:MET:HG2	1:E:577:LEU:HD23	1.93	0.50
1:B:875:GLU:O	1:B:878:PHE:HB3	2.11	0.50
1:C:1599:MET:HA	1:C:1602:PHE:CD2	2.46	0.50
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.47	0.50
1:D:1599:MET:HA	1:D:1602:PHE:CD2	2.47	0.50
1:E:883:LEU:HA	1:E:888:ILE:HD12	1.93	0.50
1:E:1131:GLU:HG2	1:E:1138:TYR:CE2	2.47	0.50
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.93	0.50
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.45	0.50
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.74	0.50
2:G:409:LYS:HB3	2:G:428:PHE:CZ	2.46	0.50
2:G:1464:LEU:HD13	2:G:1468:ARG:HG3	1.93	0.50
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.10	0.50
2:G:1769:VAL:HG22	2:G:1775:ILE:CA	2.35	0.50
2:H:187:ARG:NH2	2:H:230:TRP:O	2.45	0.50
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.46	0.50
2:H:1436:ARG:HH22	2:H:1602:LEU:CD1	2.24	0.50
2:I:605:VAL:CB	2:I:628:ILE:HG13	2.38	0.50
2:I:824:THR:HG22	2:I:828:ALA:HB3	1.93	0.50
2:I:1224:GLN:OE1	2:I:1224:GLN:HA	2.11	0.50
2:I:1845:VAL:CG2	2:I:1856:LEU:HD22	2.41	0.50
2:I:2039:TYR:O	2:I:2041:PRO:HD3	2.11	0.50
2:J:21:LEU:HD13	2:J:36:LEU:HD21	1.93	0.50
2:J:187:ARG:NH2	2:J:230:TRP:O	2.44	0.50
2:J:376:ARG:HE	2:K:1339:GLY:HA2	1.76	0.50
2:J:741:LEU:O	2:J:741:LEU:CG	2.60	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.92	0.50
2:J:1317:ASN:HB3	2:J:1320:ALA:CB	2.40	0.50
2:J:1497:ARG:O	2:J:1505:SER:HB3	2.11	0.50
2:J:1643:VAL:HG13	2:J:1649:ILE:HD11	1.93	0.50
2:J:1725:HIS:CD2	2:J:1854:GLU:CB	2.94	0.50
2:J:1969:LEU:HA	2:J:1972:ILE:HD12	1.93	0.50
2:K:126:VAL:HG12	2:K:127:ALA:H	1.77	0.50
2:K:204:ILE:CG2	2:K:312:VAL:HG11	2.41	0.50
2:K:376:ARG:HH22	2:L:1340:LYS:CE	2.24	0.50
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.46	0.50
2:K:930:THR:CG2	2:K:933:GLU:HG3	2.38	0.50
2:K:938:MET:O	2:K:942:MET:HG3	2.11	0.50
2:K:1769:VAL:HG13	2:K:1774:SER:C	2.32	0.50
2:L:192:THR:O	2:L:194:PRO:HD3	2.11	0.50
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.67	0.50
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.92	0.50
1:A:889:VAL:O	1:A:893:GLN:HG3	2.12	0.50
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.94	0.50
1:A:1207:TYR:CE2	1:A:1682:LYS:HD2	2.47	0.50
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.93	0.50
1:B:684:THR:HG21	1:B:691:VAL:HG11	1.94	0.50
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.46	0.50
1:D:847:THR:OG1	1:D:876:MET:HG3	2.11	0.50
1:D:1017:TYR:N	1:D:1017:TYR:CD1	2.80	0.50
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.11	0.50
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.93	0.50
1:F:1183:VAL:HG13	1:F:1252:GLU:OE1	2.11	0.50
1:F:1338:GLY:C	1:F:1340:MET:H	2.15	0.50
2:G:317:TRP:O	2:G:321:ARG:HG2	2.12	0.50
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.50
2:G:571:ASP:HB3	2:G:574:LYS:HB2	1.93	0.50
2:G:605:VAL:CB	2:G:628:ILE:HG13	2.38	0.50
2:G:917:ARG:HH11	2:G:917:ARG:HG2	1.67	0.50
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.26	0.50
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.47	0.50
2:G:1456:LEU:HD11	2:G:1543:TYR:CE2	2.45	0.50
2:G:1603:PRO:HD2	2:G:1606:ILE:HD11	1.94	0.50
2:H:250:PHE:O	2:H:315:LEU:HD23	2.11	0.50
2:H:276:LEU:HD21	2:H:296:ALA:HA	1.93	0.50
2:H:613:VAL:HG13	2:H:614:PRO:CD	2.42	0.50
2:H:785:SER:HB3	2:H:1090:ILE:HG23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1026:LYS:HE2	2:H:1045:ASP:OD2	2.12	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:1266:HIS:CD2	2:H:1275:ARG:CZ	2.95	0.50
2:H:1982:ALA:O	2:H:1984:PRO:HD3	2.11	0.50
2:I:22:ARG:HD2	2:I:42:HIS:HB3	1.93	0.50
2:I:271:GLU:HB2	2:I:274:GLU:HG3	1.94	0.50
2:I:374:GLU:CA	2:I:377:HIS:CD2	2.78	0.50
2:I:818:THR:HG22	2:I:829:LYS:CB	2.41	0.50
2:I:952:ASP:OD1	2:I:953:PRO:HD2	2.12	0.50
2:I:962:PHE:O	2:I:965:ARG:HB3	2.10	0.50
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.47	0.50
2:J:824:THR:HG22	2:J:828:ALA:HB3	1.93	0.50
2:J:937:ARG:NE	2:J:941:LEU:CD1	2.75	0.50
2:J:1026:LYS:HG3	3:J:2102:NAP:N7A	2.26	0.50
2:J:1083:ILE:HA	2:J:1086:ILE:HG13	1.92	0.50
2:J:1299:VAL:HG22	2:J:1301:PHE:CD1	2.47	0.50
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.76	0.50
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.26	0.50
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.50
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.40	0.50
2:K:1411:LYS:HB2	2:K:1439:TYR:CD1	2.47	0.50
2:K:2008:THR:HG22	2:K:2011:ARG:HE	1.76	0.50
2:L:21:LEU:HD13	2:L:36:LEU:HD21	1.93	0.50
2:L:451:ILE:O	2:L:455:VAL:HG23	2.11	0.50
2:L:670:MET:HB2	2:L:674:ILE:HD12	1.94	0.50
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.32	0.50
1:A:904:GLY:HA2	1:A:906:GLN:OE1	2.12	0.50
1:B:628:TYR:HD1	1:B:629:SER:N	2.10	0.50
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.93	0.50
1:D:330:LYS:HG3	1:D:333:ARG:HH12	1.74	0.50
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.12	0.50
1:E:430:VAL:O	1:E:434:ILE:HG13	2.12	0.50
1:E:1623:THR:HG22	1:E:1633:GLN:HB2	1.94	0.50
1:E:1708:ASN:HD21	1:E:1712:LYS:NZ	2.10	0.50
2:G:762:LEU:HD11	2:G:800:PHE:CD2	2.46	0.50
2:G:825:SER:O	2:G:828:ALA:HB3	2.12	0.50
2:G:1725:HIS:CD2	2:G:1854:GLU:HB3	2.45	0.50
2:G:1753:ARG:HG3	2:G:1756:ILE:HD11	1.94	0.50
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.42	0.50
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.18	0.50
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1232:VAL:HA	2:H:1245:THR:O	2.12	0.50
2:H:1946:LEU:HD22	2:H:1951:ILE:HG12	1.94	0.50
2:I:271:GLU:H	2:I:274:GLU:HG3	1.76	0.50
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.93	0.50
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.76	0.50
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.47	0.50
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.42	0.50
2:I:1180:VAL:HA	2:I:1188:GLN:O	2.11	0.50
2:I:1551:ILE:CG2	2:I:1552:GLU:N	2.75	0.50
2:I:1872:GLU:OE1	2:I:1872:GLU:HA	2.11	0.50
2:J:35:PHE:HD2	2:J:37:VAL:HG22	1.77	0.50
2:J:502:GLU:O	2:J:506:VAL:HG23	2.12	0.50
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.42	0.50
2:J:1120:ILE:HD13	2:J:1173:HIS:CE1	2.47	0.50
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.12	0.50
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	1.94	0.50
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.33	0.50
2:K:1236:LEU:HD12	2:K:1241:GLU:O	2.12	0.50
2:K:1442:TYR:CG	2:K:1499:LYS:O	2.65	0.50
2:K:1887:ASN:OD1	2:K:1889:SER:HB2	2.12	0.50
2:L:613:VAL:HG13	2:L:614:PRO:HD3	1.94	0.50
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.27	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.95	0.50
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.27	0.50
2:L:1180:VAL:HA	2:L:1188:GLN:O	2.11	0.50
1:A:1082:GLU:HB2	1:A:1085:LEU:HD12	1.93	0.50
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.39	0.50
1:B:569:LEU:HD22	1:E:544:ASP:HB3	1.94	0.50
1:B:1183:VAL:HG11	1:B:1187:THR:CG2	2.41	0.50
1:B:1584:GLY:HA2	1:B:1617:ILE:CD1	2.41	0.50
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.47	0.50
1:C:960:ARG:HH11	2:I:968:GLU:HB3	1.75	0.50
1:C:960:ARG:NH1	2:I:968:GLU:CD	2.64	0.50
1:C:1042:LEU:HD12	1:C:1058:PRO:HG3	1.94	0.50
1:C:1121:ARG:NH1	1:F:1153:ALA:O	2.45	0.50
1:C:1451:LYS:HE2	1:C:1463:GLU:OE2	2.11	0.50
1:C:1705:GLN:HA	1:C:1711:LEU:HD23	1.94	0.50
1:E:985:ARG:HB3	1:E:1422:ARG:HH22	1.76	0.50
1:F:36:LEU:HD22	1:F:61:LEU:HD21	1.94	0.50
1:F:768:ARG:HA	1:F:772:THR:OG1	2.12	0.50
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1083:ILE:HA	2:G:1086:ILE:HG13	1.92	0.50
2:G:1946:LEU:HD22	2:G:1951:ILE:HG12	1.94	0.50
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.93	0.50
2:H:609:THR:CG2	2:H:633:GLY:HA3	2.42	0.50
2:H:796:TRP:HH2	2:H:805:MET:HE1	1.73	0.50
2:H:1047:LEU:HD12	2:H:1047:LEU:N	2.27	0.50
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.42	0.50
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.26	0.50
2:H:1551:ILE:CG2	2:H:1552:GLU:N	2.74	0.50
2:H:1821:MET:HA	2:H:1826:LEU:HD12	1.93	0.50
2:I:21:LEU:HA	2:I:37:VAL:O	2.12	0.50
2:I:357:THR:HG22	2:I:359:SER:H	1.77	0.50
2:I:409:LYS:HB3	2:I:428:PHE:CZ	2.46	0.50
2:I:614:PRO:O	2:I:618:VAL:HG12	2.11	0.50
2:I:618:VAL:HG11	2:I:648:ILE:HD11	1.93	0.50
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.47	0.50
2:I:1128:PRO:HG2	2:I:1135:ALA:CB	2.42	0.50
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.47	0.50
2:J:1026:LYS:HE2	2:J:1045:ASP:OD2	2.12	0.50
2:J:1157:VAL:HG13	2:J:1197:ALA:HA	1.93	0.50
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.10	0.50
2:K:21:LEU:HA	2:K:37:VAL:O	2.11	0.50
2:K:178:ASN:HA	2:K:434:PRO:HG2	1.94	0.50
2:K:465:LEU:HB2	2:K:479:ARG:CG	2.42	0.50
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.32	0.50
2:L:31:LEU:HB2	2:L:72:VAL:HG22	1.94	0.50
2:L:123:ALA:O	2:L:126:VAL:HG23	2.11	0.50
2:L:1370:LEU:CA	2:L:1435:TYR:HE2	2.24	0.50
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.50
1:A:20:TYR:CE2	2:G:2062:THR:HG23	2.47	0.49
1:A:1223:GLY:CA	1:A:1276:PRO:HD2	2.42	0.49
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.47	0.49
1:C:498:THR:HG21	1:C:858:LEU:O	2.12	0.49
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.47	0.49
1:E:536:SER:HB3	1:E:540:LYS:HB3	1.94	0.49
1:E:929:ARG:O	1:E:933:ILE:HG13	2.11	0.49
1:E:1164:ILE:HD12	1:E:1355:GLN:HG3	1.92	0.49
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.92	0.49
1:E:1705:GLN:HA	1:E:1711:LEU:HD23	1.94	0.49
1:F:329:THR:O	1:F:332:GLN:HB2	2.12	0.49
1:F:472:GLN:HA	1:F:472:GLN:HE21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.92	0.49
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.94	0.49
1:F:1160:VAL:C	1:F:1352:MET:HE1	2.32	0.49
2:G:21:LEU:HA	2:G:37:VAL:O	2.11	0.49
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.42	0.49
2:G:609:THR:HG22	2:G:633:GLY:HA3	1.94	0.49
2:G:690:LEU:HD22	2:G:691:THR:N	2.27	0.49
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.94	0.49
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.49
2:G:1234:ILE:HG12	2:G:1244:LEU:HD13	1.94	0.49
2:G:1891:ILE:HD12	2:G:1895:PHE:CE2	2.47	0.49
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.93	0.49
2:H:420:PRO:HG3	2:H:847:TYR:CD1	2.46	0.49
2:H:604:MET:HE1	2:H:811:MET:HB2	1.93	0.49
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.93	0.49
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.42	0.49
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.74	0.49
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.93	0.49
2:I:1157:VAL:HG13	2:I:1197:ALA:HA	1.94	0.49
2:I:1436:ARG:HH22	2:I:1602:LEU:CD1	2.22	0.49
2:I:1456:LEU:HD11	2:I:1543:TYR:CE2	2.43	0.49
2:I:1946:LEU:HD22	2:I:1951:ILE:HG12	1.94	0.49
2:J:44:GLN:HG3	2:J:101:VAL:CG2	2.41	0.49
2:J:102:LEU:O	2:J:106:LEU:HG	2.12	0.49
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.94	0.49
2:J:1594:ARG:NH1	2:J:1594:ARG:CG	2.62	0.49
2:K:604:MET:CE	2:K:811:MET:HB2	2.41	0.49
2:K:1436:ARG:NH2	2:K:1602:LEU:CD1	2.75	0.49
2:K:2021:LEU:HD22	2:K:2025:ILE:HD11	1.94	0.49
2:L:77:ALA:O	2:L:139:ALA:HB1	2.12	0.49
2:L:520:GLY:C	2:L:522:SER:H	2.15	0.49
2:L:1299:VAL:HG22	2:L:1301:PHE:CD1	2.46	0.49
2:L:1411:LYS:HB2	2:L:1439:TYR:CD1	2.47	0.49
2:L:1464:LEU:HD13	2:L:1468:ARG:HG3	1.93	0.49
2:L:1821:MET:HA	2:L:1826:LEU:HD12	1.93	0.49
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.94	0.49
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.49
1:A:1011:ARG:NH1	1:A:1012:TRP:HA	2.27	0.49
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.13	0.49
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.43	0.49
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.68	0.49
1:C:1142:LEU:HD12	1:C:1142:LEU:H	1.76	0.49
1:C:1150:ILE:HG12	1:F:1148:LEU:HD21	1.94	0.49
1:D:414:TYR:CE2	1:D:418:ILE:HD11	2.47	0.49
1:E:755:GLU:HB2	1:E:757:ASP:HB2	1.94	0.49
1:E:1017:TYR:N	1:E:1017:TYR:HD1	2.10	0.49
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.12	0.49
1:F:754:ARG:N	1:F:810:ASN:HB3	2.26	0.49
2:G:489:GLU:O	2:G:493:MET:HG3	2.12	0.49
2:G:728:ILE:HG22	2:G:732:LYS:HE3	1.94	0.49
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.94	0.49
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.94	0.49
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.47	0.49
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.94	0.49
2:H:1157:VAL:HG22	2:H:1198:PRO:HD2	1.94	0.49
2:H:1637:VAL:HG11	2:H:1679:LEU:CD1	2.36	0.49
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.93	0.49
2:H:1986:PRO:O	2:H:1987:VAL:HB	2.12	0.49
2:I:1500:ASN:HB2	2:I:1503:VAL:H	1.77	0.49
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.73	0.49
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	2.27	0.49
2:K:330:SER:H	2:L:1331:THR:HG22	1.77	0.49
2:K:1305:LEU:H	2:K:1305:LEU:CD1	2.22	0.49
2:K:1643:VAL:HG13	2:K:1649:ILE:HD11	1.94	0.49
2:L:317:TRP:O	2:L:321:ARG:HG2	2.13	0.49
2:L:604:MET:HE1	2:L:811:MET:HB2	1.94	0.49
2:L:929:MET:CE	2:L:934:VAL:HA	2.41	0.49
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.12	0.49
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	1.94	0.49
2:L:1986:PRO:O	2:L:1987:VAL:HB	2.11	0.49
1:A:849:GLY:HA3	1:A:873:GLN:HG3	1.94	0.49
1:B:1153:ALA:O	1:D:1121:ARG:NH1	2.43	0.49
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.47	0.49
1:C:24:MET:HB3	2:I:2043:VAL:HG12	1.94	0.49
1:C:486:VAL:HG13	1:C:648:LEU:H	1.77	0.49
1:C:1579:GLN:O	1:C:1583:THR:HG23	2.11	0.49
1:D:1183:VAL:HG13	1:D:1252:GLU:OE1	2.12	0.49
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.69	0.49
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.75	0.49
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	1.94	0.49
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:756:ASP:CA	2:G:843:TRP:HH2	2.25	0.49
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.77	0.49
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.42	0.49
2:H:465:LEU:HB2	2:H:479:ARG:HG3	1.94	0.49
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.47	0.49
2:H:776:LEU:HG	2:H:807:PHE:CE2	2.47	0.49
2:H:1217:ILE:O	2:H:1233:GLU:HA	2.12	0.49
2:H:1725:HIS:CD2	2:H:1854:GLU:CB	2.96	0.49
2:I:611:THR:HA	2:I:1051:GLU:OE2	2.12	0.49
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.95	0.49
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.27	0.49
2:J:92:GLU:HA	2:J:95:HIS:CE1	2.48	0.49
2:J:221:TYR:CE2	2:J:225:LEU:HD22	2.47	0.49
2:J:329:THR:HG21	2:K:1333:GLU:CB	2.41	0.49
2:K:92:GLU:HB3	2:K:95:HIS:NE2	2.27	0.49
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.93	0.49
2:K:416:GLN:HE22	2:K:425:LYS:H	1.60	0.49
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.47	0.49
2:K:1142:ILE:HG13	2:K:1209:PRO:HG2	1.94	0.49
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.28	0.49
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.12	0.49
2:L:44:GLN:HG3	2:L:101:VAL:CG2	2.42	0.49
2:L:208:LEU:HD12	2:L:227:ILE:CD1	2.41	0.49
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.41	0.49
1:A:336:PHE:O	1:A:339:GLN:HB2	2.12	0.49
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.95	0.49
1:B:519:PHE:O	1:B:523:VAL:HG23	2.12	0.49
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.42	0.49
1:B:1335:ARG:HH11	1:B:1339:GLU:HG2	1.77	0.49
1:B:1405:ARG:HA	1:D:1697:LEU:O	2.12	0.49
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.11	0.49
1:C:1363:MET:HE3	1:C:1368:ALA:CB	2.42	0.49
1:D:336:PHE:O	1:D:339:GLN:HB2	2.13	0.49
1:D:628:TYR:OH	1:D:630:LYS:HG2	2.13	0.49
1:D:1100:VAL:HG21	1:D:1150:ILE:CD1	2.43	0.49
1:E:506:ILE:HD11	1:E:926:SER:HB3	1.93	0.49
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.12	0.49
1:F:17:LEU:HD23	2:L:2043:VAL:CG2	2.42	0.49
1:F:1293:THR:HG23	1:F:1298:LYS:HB2	1.95	0.49
2:G:126:VAL:HG12	2:G:127:ALA:H	1.75	0.49
2:G:271:GLU:HB2	2:G:274:GLU:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.48	0.49
2:G:1299:VAL:HG22	2:G:1301:PHE:CD1	2.48	0.49
2:G:1336:VAL:O	2:G:1336:VAL:HG12	2.12	0.49
2:G:1468:ARG:NH1	2:G:1475:LEU:HD22	2.28	0.49
2:G:1752:PRO:O	2:G:1756:ILE:HG23	2.12	0.49
2:G:2021:LEU:O	2:G:2025:ILE:HG13	2.12	0.49
2:H:798:THR:HA	2:H:802:TYR:O	2.11	0.49
2:H:907:ASN:OD1	2:H:913:VAL:HG12	2.12	0.49
2:H:1456:LEU:HD11	2:H:1543:TYR:CE2	2.45	0.49
2:H:1500:ASN:HB2	2:H:1503:VAL:H	1.78	0.49
2:H:1620:VAL:O	2:H:1624:ALA:HB3	2.12	0.49
2:H:1865:LEU:O	2:H:1869:VAL:HG22	2.12	0.49
2:I:685:VAL:CG1	2:I:687:ILE:HG13	2.38	0.49
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.42	0.49
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.12	0.49
2:I:1750:GLY:N	2:I:1754:GLY:HA3	2.27	0.49
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.12	0.49
2:J:376:ARG:NH2	2:K:1340:LYS:CG	2.76	0.49
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.47	0.49
2:J:820:LYS:HG3	2:J:821:GLU:HG2	1.94	0.49
2:J:1734:ILE:O	2:J:1738:VAL:HG23	2.12	0.49
2:J:1752:PRO:O	2:J:1756:ILE:HG23	2.12	0.49
2:K:512:HIS:HE1	2:K:566:VAL:HG13	1.77	0.49
2:K:580:LEU:HG	2:K:1098:LEU:HD23	1.95	0.49
2:K:1028:VAL:HG13	2:K:1030:PHE:CD2	2.47	0.49
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.76	0.49
2:K:1317:ASN:HB3	2:K:1320:ALA:CB	2.42	0.49
2:K:1370:LEU:HA	2:K:1435:TYR:CE2	2.48	0.49
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.47	0.49
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.41	0.49
2:L:888:ARG:O	2:L:891:ARG:HB2	2.11	0.49
2:L:915:PHE:CD2	2:L:915:PHE:O	2.66	0.49
2:L:1231:THR:HG23	2:L:1595:VAL:CG2	2.37	0.49
2:L:1350:ILE:HG22	2:L:1429:VAL:HG11	1.94	0.49
2:L:1805:PHE:O	2:L:1808:PRO:HD2	2.11	0.49
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.27	0.49
1:A:68:TYR:HD1	2:I:371:HIS:CD2	2.29	0.49
1:A:1075:HIS:HB3	1:A:1166:THR:HB	1.94	0.49
1:B:628:TYR:OH	1:B:630:LYS:HE2	2.12	0.49
1:B:1017:TYR:N	1:B:1017:TYR:HD1	2.10	0.49
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.12	0.49
1:C:358:PHE:C	1:C:358:PHE:CD2	2.85	0.49
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.47	0.49
1:D:542:GLN:CB	1:D:579:MET:HE2	2.17	0.49
1:D:1337:PRO:HA	1:D:1340:MET:HG3	1.95	0.49
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.95	0.49
1:E:962:ASN:ND2	2:K:1006:GLN:NE2	2.47	0.49
1:E:965:TYR:OH	1:E:1199:LEU:HD22	2.11	0.49
1:E:1330:GLU:OE2	1:E:1342:ARG:NH2	2.45	0.49
1:E:1691:ILE:HG22	1:E:1695:VAL:HG23	1.94	0.49
1:F:504:GLY:HA2	1:F:929:ARG:HD2	1.94	0.49
2:G:1279:GLU:H	2:G:1279:GLU:CD	2.15	0.49
2:G:1370:LEU:HA	2:G:1435:TYR:CE2	2.45	0.49
2:G:1594:ARG:NH1	2:G:1594:ARG:CG	2.65	0.49
2:H:472:THR:HG23	2:H:499:VAL:HA	1.94	0.49
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.28	0.49
2:H:978:SER:O	2:H:981:GLN:HG2	2.12	0.49
2:I:221:TYR:CE2	2:I:225:LEU:HD22	2.48	0.49
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.41	0.49
2:I:1603:PRO:HD2	2:I:1606:ILE:HD11	1.94	0.49
2:J:416:GLN:HE22	2:J:425:LYS:H	1.61	0.49
2:J:609:THR:HG22	2:J:633:GLY:HA3	1.93	0.49
2:J:1180:VAL:CG1	2:J:1188:GLN:H	2.25	0.49
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.48	0.49
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.48	0.49
2:K:1083:ILE:HA	2:K:1086:ILE:HG13	1.93	0.49
2:K:1265:TYR:HE1	2:K:1267:PRO:HG3	1.73	0.49
2:K:1286:LYS:HD3	2:K:1362:PHE:HA	1.94	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.12	0.49
2:L:187:ARG:NH2	2:L:230:TRP:O	2.45	0.49
2:L:391:VAL:HG12	2:L:398:LEU:HD21	1.95	0.49
2:L:663:ILE:HD12	2:L:663:ILE:N	2.23	0.49
2:L:717:LYS:HD2	4:L:2101:FMN:O2	2.13	0.49
2:L:719:GLY:O	2:L:755:GLU:HG3	2.12	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.78	0.49
2:L:1352:VAL:HG11	2:L:1395:LEU:HD12	1.94	0.49
2:L:1891:ILE:HD12	2:L:1895:PHE:CE2	2.47	0.49
1:A:968:PRO:HG3	1:A:1376:TYR:CE1	2.47	0.49
1:A:1703:VAL:HG22	1:A:1713:PHE:N	2.27	0.49
1:C:1307:PHE:HB3	1:C:1357:CYS:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:890:ASN:OD1	2:I:1755:LYS:HE2	2.13	0.49
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.49
1:D:1386:THR:HG22	1:D:1629:GLN:HE21	1.76	0.49
1:E:334:ALA:O	1:E:338:GLN:HG3	2.12	0.49
1:E:716:GLN:NE2	1:E:747:ALA:HB3	2.28	0.49
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.48	0.49
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.43	0.49
2:G:1019:LEU:HA	2:G:1022:ARG:HD2	1.93	0.49
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.42	0.49
2:G:1821:MET:HA	2:G:1826:LEU:HD12	1.95	0.49
2:H:77:ALA:O	2:H:139:ALA:HB1	2.12	0.49
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.78	0.49
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.93	0.49
2:H:775:VAL:HG12	2:H:777:VAL:HG23	1.94	0.49
2:H:930:THR:CG2	2:H:933:GLU:H	2.25	0.49
2:H:1517:LEU:HD12	2:H:1521:GLU:HB2	1.93	0.49
2:I:196:PHE:H	2:I:196:PHE:HD2	1.60	0.49
2:I:608:MET:HA	4:I:2101:FMN:N5	2.27	0.49
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.75	0.49
2:K:208:LEU:HD12	2:K:227:ILE:CD1	2.40	0.49
2:K:528:THR:HA	2:K:531:ASN:ND2	2.27	0.49
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.93	0.49
2:K:618:VAL:CG1	2:K:648:ILE:HD11	2.43	0.49
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.95	0.49
2:K:1086:ILE:O	2:K:1090:ILE:HG13	2.13	0.49
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.77	0.49
2:K:1891:ILE:HD12	2:K:1895:PHE:CE2	2.48	0.49
2:L:76:VAL:O	2:L:80:ILE:HG13	2.12	0.49
2:L:618:VAL:CG1	2:L:648:ILE:HD11	2.42	0.49
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.95	0.49
2:L:1456:LEU:HD11	2:L:1543:TYR:CE2	2.46	0.49
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	1.94	0.49
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.47	0.49
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.93	0.49
1:A:1363:MET:HE3	1:A:1368:ALA:CB	2.42	0.49
1:B:358:PHE:CD2	1:B:358:PHE:C	2.86	0.49
1:B:493:PRO:HD2	1:B:517:ARG:O	2.13	0.49
1:B:983:GLN:O	1:B:987:MET:HG3	2.13	0.49
1:B:1106:LEU:HD12	1:D:1104:GLN:HE22	1.78	0.49
1:C:329:THR:O	1:C:332:GLN:HB2	2.13	0.49
1:C:330:LYS:HG3	1:C:333:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:ASN:HB3	1:C:585:MET:SD	2.52	0.49
1:C:628:TYR:HD1	1:C:629:SER:N	2.11	0.49
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.46	0.49
1:C:962:ASN:HB3	2:I:969:ARG:HD2	1.94	0.49
1:C:1082:GLU:HB2	1:C:1085:LEU:HD12	1.95	0.49
1:D:20:TYR:CE2	2:J:2062:THR:HG23	2.46	0.49
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.94	0.49
1:D:914:LEU:O	1:D:917:LYS:HB3	2.13	0.49
1:D:1223:GLY:CA	1:D:1276:PRO:HD2	2.42	0.49
1:F:573:VAL:O	1:F:577:LEU:HG	2.13	0.49
2:G:207:LEU:HD22	2:G:309:LYS:HG3	1.95	0.49
2:G:270:ARG:HG3	2:G:274:GLU:CD	2.33	0.49
2:G:460:ILE:CD1	2:G:487:ILE:HD11	2.43	0.49
2:G:962:PHE:O	2:G:966:VAL:HG23	2.12	0.49
2:G:1176:PHE:CE1	2:G:1192:LEU:HD13	2.48	0.49
2:H:357:THR:HG22	2:H:359:SER:H	1.76	0.49
2:H:614:PRO:O	2:H:618:VAL:HG12	2.13	0.49
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.48	0.49
2:H:870:THR:HG21	2:H:1064:THR:O	2.13	0.49
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.95	0.49
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.27	0.49
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.47	0.49
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	1.95	0.49
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.47	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49
2:J:361:VAL:O	2:J:365:ILE:HG13	2.12	0.49
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.42	0.49
2:J:596:ARG:HD3	2:J:1119:ARG:HG3	1.94	0.49
2:J:622:MET:O	2:J:656:ARG:NH1	2.46	0.49
2:J:888:ARG:O	2:J:891:ARG:HB2	2.12	0.49
2:J:928:ASP:O	2:J:1007:LEU:HD23	2.13	0.49
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.12	0.49
2:K:751:HIS:HB2	3:K:2102:NAP:N7N	2.28	0.49
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.49
2:K:1311:GLY:HA3	2:K:1397:THR:HB	1.95	0.49
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.75	0.49
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.94	0.49
2:K:1725:HIS:CD2	2:K:1854:GLU:CB	2.96	0.49
2:K:1947:LYS:HG2	2:K:1993:PHE:CD1	2.48	0.49
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.94	0.49
2:L:1421:ARG:HD2	2:L:1426:VAL:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1946:LEU:HB3	2:L:1951:ILE:HD11	1.94	0.49
1:A:22:PHE:HE1	2:G:1867:MET:HG3	1.77	0.49
1:A:1580:VAL:O	1:A:1617:ILE:HD11	2.12	0.49
1:B:782:LYS:NZ	1:B:786:LYS:HD2	2.27	0.49
1:C:716:GLN:NE2	1:C:747:ALA:HB3	2.28	0.49
1:C:853:MET:HG2	1:C:856:ASN:ND2	2.24	0.49
1:C:985:ARG:HB3	1:C:1422:ARG:HH22	1.78	0.49
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.36	0.49
1:C:1154:LEU:HD21	1:F:1118:GLU:OE2	2.12	0.49
1:D:94:PRO:HD3	2:J:1559:ASN:ND2	2.28	0.49
1:D:1213:VAL:HG22	1:D:1300:ARG:CZ	2.42	0.49
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.48	0.49
1:E:450:TYR:C	1:E:450:TYR:CD2	2.85	0.49
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.48	0.49
1:E:1338:GLY:C	1:E:1340:MET:H	2.15	0.49
1:F:9:LEU:HB2	2:L:2050:ILE:HD11	1.94	0.49
1:F:330:LYS:HG3	1:F:333:ARG:HH12	1.77	0.49
1:F:846:TRP:HZ2	1:F:856:ASN:O	1.96	0.49
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.12	0.49
1:F:1337:PRO:HA	1:F:1340:MET:CG	2.43	0.49
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.94	0.49
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.94	0.49
2:G:1157:VAL:HG22	2:G:1198:PRO:HD2	1.95	0.49
2:G:1384:PRO:HB3	2:G:1829:ARG:HH12	1.78	0.49
2:G:1890:ARG:NH2	2:G:1996:ILE:HD11	2.17	0.49
2:H:1180:VAL:HA	2:H:1188:GLN:O	2.13	0.49
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.12	0.49
2:H:1768:THR:O	2:H:1776:LYS:HB2	2.13	0.49
2:H:1946:LEU:HB3	2:H:1951:ILE:HD11	1.94	0.49
2:I:460:ILE:O	2:I:486:ILE:HB	2.13	0.49
2:I:1299:VAL:HG22	2:I:1301:PHE:CD1	2.48	0.49
2:I:1653:LEU:CD2	2:I:1667:VAL:HG13	2.43	0.49
2:J:420:PRO:HG3	2:J:847:TYR:CD1	2.48	0.49
2:J:520:GLY:C	2:J:522:SER:H	2.16	0.49
2:J:1342:PHE:HE2	2:J:1391:VAL:HB	1.78	0.49
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	1.94	0.49
2:K:197:VAL:HA	2:K:262:MET:HE1	1.95	0.49
2:K:358:ARG:HB2	2:K:389:PHE:CE2	2.47	0.49
2:K:907:ASN:OD1	2:K:913:VAL:HG12	2.13	0.49
2:K:1404:VAL:HA	2:K:1412:MET:O	2.11	0.49
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:22:ARG:HD2	2:L:42:HIS:HB3	1.95	0.49
2:L:472:THR:HG23	2:L:499:VAL:HA	1.95	0.49
2:L:582:LYS:HA	2:L:587:GLN:O	2.12	0.49
2:L:614:PRO:O	2:L:618:VAL:HG12	2.13	0.49
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.28	0.49
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	1.94	0.49
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.95	0.49
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.13	0.49
1:A:503:ARG:HA	1:A:933:ILE:CD1	2.42	0.49
1:B:808:PHE:HA	1:B:912:LYS:HD3	1.95	0.49
1:B:929:ARG:O	1:B:933:ILE:HG13	2.12	0.49
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.43	0.49
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.47	0.49
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.78	0.49
1:C:956:ILE:HA	2:I:977:PRO:HA	1.94	0.49
1:D:746:PHE:CD1	1:D:800:PRO:HG3	2.48	0.49
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.13	0.49
1:D:1337:PRO:HA	1:D:1340:MET:CG	2.42	0.49
1:E:9:LEU:HB2	2:K:2050:ILE:HD11	1.95	0.49
1:E:956:ILE:HG23	2:K:976:GLN:O	2.13	0.49
1:F:519:PHE:O	1:F:523:VAL:HG23	2.12	0.49
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.74	0.49
1:F:1208:GLU:OE2	1:F:1661:ARG:NH2	2.45	0.49
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.42	0.49
2:G:796:TRP:HH2	2:G:805:MET:HE1	1.77	0.49
2:G:825:SER:CB	2:G:1053:ILE:HG13	2.43	0.49
2:G:929:MET:HE1	2:G:934:VAL:HA	1.95	0.49
2:G:980:LEU:HD22	2:G:986:LEU:HD21	1.94	0.49
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.42	0.49
2:G:1301:PHE:O	2:G:1364:ARG:N	2.42	0.49
2:G:1380:TYR:HD2	2:G:1429:VAL:HG22	1.74	0.49
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.43	0.49
2:H:622:MET:O	2:H:656:ARG:NH1	2.46	0.49
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	1.94	0.49
2:H:1420:LYS:HG2	2:H:1425:PRO:CA	2.41	0.49
2:H:1887:ASN:OD1	2:H:1889:SER:HB2	2.13	0.49
2:I:571:ASP:OD1	2:I:573:VAL:HG23	2.13	0.49
2:I:611:THR:HG22	2:I:1051:GLU:OE2	2.13	0.49
2:I:1311:GLY:HA3	2:I:1397:THR:HB	1.94	0.49
2:I:1359:LYS:O	2:I:1362:PHE:HD1	1.95	0.49
2:I:1738:VAL:HA	2:I:1800:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1946:LEU:HB3	2:I:1951:ILE:HD11	1.94	0.49
2:I:2053:GLU:HA	2:I:2056:GLU:OE1	2.13	0.49
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.43	0.49
2:J:699:ILE:H	2:J:699:ILE:CD1	2.25	0.49
2:J:915:PHE:O	2:J:915:PHE:CD2	2.65	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.64	0.49
2:J:1500:ASN:HB2	2:J:1503:VAL:H	1.78	0.49
2:J:1946:LEU:HB3	2:J:1951:ILE:HD11	1.94	0.49
2:K:291:VAL:O	2:K:295:ILE:HB	2.11	0.49
2:K:735:PRO:HA	2:K:773:ASN:OD1	2.13	0.49
2:K:1207:THR:O	2:K:1215:THR:HG23	2.13	0.49
2:K:1603:PRO:HD2	2:K:1606:ILE:HD11	1.95	0.49
2:L:622:MET:O	2:L:656:ARG:NH1	2.46	0.49
2:L:917:ARG:HB2	2:L:937:ARG:HD3	1.95	0.49
2:L:1725:HIS:CD2	2:L:1854:GLU:CB	2.96	0.49
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.43	0.49
1:A:445:LEU:O	1:A:448:MET:HB2	2.13	0.49
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.77	0.49
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.75	0.49
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.06	0.49
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.48	0.49
1:B:1229:THR:HB	1:B:1311:GLN:HG3	1.93	0.49
1:B:1293:THR:HG23	1:B:1298:LYS:HB2	1.93	0.49
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.41	0.49
1:C:441:ASN:HB2	1:C:444:LEU:H	1.78	0.49
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.43	0.49
1:C:1447:VAL:CG2	1:C:1467:LEU:HD21	2.36	0.49
1:D:1082:GLU:HB2	1:D:1085:LEU:HD12	1.95	0.49
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.49
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.42	0.49
1:E:868:VAL:HG11	1:E:908:ILE:CD1	2.38	0.49
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.12	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.48	0.49
2:G:208:LEU:HD12	2:G:227:ILE:CD1	2.41	0.49
2:G:735:PRO:HA	2:G:773:ASN:OD1	2.12	0.49
2:G:1946:LEU:HB3	2:G:1951:ILE:HD11	1.95	0.49
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.33	0.49
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.96	0.49
2:H:43:PHE:CE2	2:I:22:ARG:CG	2.96	0.49
2:H:315:LEU:HA	2:H:318:ILE:HD12	1.94	0.49
2:H:502:GLU:O	2:H:506:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:38:PRO:HD2	2:I:104:LEU:CD1	2.43	0.49
2:I:76:VAL:HG11	2:I:109:PHE:CD1	2.48	0.49
2:I:92:GLU:HA	2:I:95:HIS:CE1	2.48	0.49
2:I:668:ARG:HH21	2:I:1023:ARG:HH12	1.60	0.49
2:I:825:SER:O	2:I:828:ALA:HB3	2.13	0.49
2:I:837:GLY:HA3	2:I:1074:LYS:HG2	1.94	0.49
2:I:888:ARG:O	2:I:891:ARG:HB2	2.13	0.49
2:I:1328:VAL:HA	2:I:1611:TYR:HE1	1.78	0.49
2:I:1380:TYR:HD2	2:I:1429:VAL:HG22	1.78	0.49
2:I:1643:VAL:HG13	2:I:1649:ILE:HD11	1.94	0.49
2:J:207:LEU:HD22	2:J:309:LYS:HG3	1.95	0.49
2:J:291:VAL:O	2:J:295:ILE:HB	2.13	0.49
2:J:611:THR:HA	2:J:1051:GLU:OE2	2.13	0.49
2:J:676:LEU:C	2:J:676:LEU:HD13	2.34	0.49
2:J:1157:VAL:HG22	2:J:1198:PRO:HD2	1.95	0.49
2:J:1380:TYR:HD2	2:J:1429:VAL:HG22	1.77	0.49
2:J:1421:ARG:HD2	2:J:1426:VAL:CG2	2.43	0.49
2:J:1891:ILE:HD12	2:J:1895:PHE:CE2	2.47	0.49
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.13	0.49
2:K:300:THR:H	2:K:303:GLU:HB3	1.77	0.49
2:K:595:SER:HB2	2:K:600:VAL:O	2.13	0.49
2:K:915:PHE:CD2	2:K:915:PHE:O	2.66	0.49
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.77	0.49
2:L:798:THR:HA	2:L:802:TYR:O	2.12	0.49
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.13	0.49
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.95	0.49
2:L:1019:LEU:HA	2:L:1022:ARG:HD2	1.95	0.49
2:L:1497:ARG:O	2:L:1505:SER:HB3	2.13	0.49
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.12	0.49
1:A:756:ILE:HA	1:A:759:ILE:CD1	2.41	0.48
1:A:1307:PHE:CB	1:A:1357:CYS:HB3	2.43	0.48
1:B:421:ARG:NH2	1:B:1613:LYS:HB3	2.28	0.48
1:C:1208:GLU:OE2	1:C:1661:ARG:NH2	2.46	0.48
1:D:1495:ARG:HG2	1:D:1495:ARG:HH11	1.77	0.48
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.27	0.48
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.94	0.48
1:E:1075:HIS:HB3	1:E:1166:THR:HB	1.93	0.48
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.43	0.48
1:F:849:GLY:HA3	1:F:873:GLN:HG3	1.94	0.48
1:F:911:LEU:O	1:F:911:LEU:HD12	2.13	0.48
1:F:1075:HIS:HB3	1:F:1166:THR:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.94	0.48
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.13	0.48
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.96	0.48
2:G:1204:VAL:HA	2:G:1218:SER:O	2.13	0.48
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.28	0.48
2:H:520:GLY:C	2:H:522:SER:H	2.16	0.48
2:H:931:TYR:O	2:H:935:VAL:HG12	2.13	0.48
2:I:978:SER:O	2:I:981:GLN:HG2	2.12	0.48
2:I:1304:PRO:HA	2:I:1365:LYS:NZ	2.28	0.48
2:I:1344:ALA:N	2:I:1389:LEU:O	2.43	0.48
2:J:300:THR:H	2:J:303:GLU:HB3	1.78	0.48
2:J:317:TRP:O	2:J:321:ARG:HG2	2.12	0.48
2:J:472:THR:HB	2:J:493:MET:HB3	1.95	0.48
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.26	0.48
2:J:978:SER:O	2:J:981:GLN:HG2	2.13	0.48
2:J:1722:ALA:HB1	2:J:1812:LEU:HD21	1.95	0.48
2:K:35:PHE:CD2	2:K:37:VAL:HG22	2.48	0.48
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.43	0.48
2:K:785:SER:O	2:K:789:TYR:HB2	2.13	0.48
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.46	0.48
2:K:1932:ASP:O	2:K:1936:LEU:HD23	2.13	0.48
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.43	0.48
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.43	0.48
2:L:1769:VAL:HG22	2:L:1775:ILE:CA	2.35	0.48
2:L:1894:THR:HB	2:L:1954:GLN:OE1	2.12	0.48
1:A:358:PHE:C	1:A:358:PHE:CD2	2.87	0.48
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.49	0.48
1:A:801:LEU:HD13	1:A:822:GLU:HG2	1.94	0.48
1:A:876:MET:HE3	1:A:876:MET:O	2.13	0.48
1:A:1514:ILE:CD1	1:A:1545:LEU:HB3	2.44	0.48
1:A:1579:GLN:O	1:A:1583:THR:HG23	2.14	0.48
1:B:506:ILE:HD11	1:B:926:SER:HB3	1.95	0.48
1:B:579:MET:HE1	1:E:907:PHE:CZ	2.47	0.48
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.47	0.48
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.42	0.48
1:B:1414:PRO:HG2	1:D:1473:HIS:NE2	2.28	0.48
1:C:533:SER:HA	1:C:907:PHE:CZ	2.48	0.48
1:C:801:LEU:HD13	1:C:822:GLU:HG2	1.95	0.48
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.95	0.48
1:D:759:ILE:HG12	1:D:813:LEU:HD23	1.96	0.48
1:D:848:ARG:HG2	1:D:871:PHE:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1132:ILE:HD12	1:E:1137:GLN:HB2	1.94	0.48
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.76	0.48
1:F:547:SER:HA	1:F:550:LYS:HB2	1.95	0.48
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.43	0.48
2:G:834:ASP:O	2:G:836:PRO:HD3	2.13	0.48
2:G:1026:LYS:HE2	2:G:1045:ASP:OD2	2.13	0.48
2:G:1180:VAL:HA	2:G:1188:GLN:O	2.12	0.48
2:G:1344:ALA:N	2:G:1389:LEU:O	2.41	0.48
2:G:1932:ASP:O	2:G:1936:LEU:HD23	2.13	0.48
2:H:928:ASP:O	2:H:1007:LEU:HD23	2.13	0.48
2:H:1753:ARG:HG3	2:H:1756:ILE:HD11	1.95	0.48
2:I:465:LEU:HB2	2:I:479:ARG:HG3	1.95	0.48
2:I:1195:LEU:HD23	2:I:1595:VAL:HG12	1.95	0.48
2:I:1286:LYS:NZ	2:I:1367:ASP:HA	2.29	0.48
2:I:1299:VAL:HG13	2:I:1301:PHE:CE1	2.47	0.48
2:I:1731:GLY:O	2:I:1747:VAL:HG12	2.13	0.48
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.13	0.48
2:J:490:LEU:HA	2:J:493:MET:SD	2.53	0.48
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.48
2:J:776:LEU:HG	2:J:807:PHE:CE2	2.47	0.48
2:J:827:GLN:O	2:J:830:GLN:HB3	2.12	0.48
2:J:845:ASN:HB3	2:J:851:THR:HG1	1.78	0.48
2:K:460:ILE:O	2:K:486:ILE:N	2.46	0.48
2:K:489:GLU:O	2:K:492:ARG:HG2	2.13	0.48
2:K:779:GLY:HA3	2:K:811:MET:CE	2.42	0.48
2:K:797:SER:O	2:K:802:TYR:HB2	2.13	0.48
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.95	0.48
2:L:38:PRO:HD2	2:L:104:LEU:CD1	2.44	0.48
2:L:76:VAL:HG11	2:L:109:PHE:CD1	2.47	0.48
2:L:357:THR:HG22	2:L:359:SER:H	1.76	0.48
2:L:749:GLY:HA3	4:L:2101:FMN:HM81	1.95	0.48
2:L:818:THR:HG22	2:L:829:LYS:CB	2.37	0.48
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.44	0.48
2:L:1721:ARG:NH1	2:L:1854:GLU:OE2	2.46	0.48
2:L:1738:VAL:HA	2:L:1800:LEU:HD13	1.95	0.48
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	1.94	0.48
1:D:408:GLN:HE22	1:D:1610:ARG:H	1.61	0.48
1:D:1031:MET:HB3	1:D:1031:MET:HE2	1.72	0.48
1:D:1363:MET:HE3	1:D:1368:ALA:CB	2.44	0.48
1:E:673:LEU:HD21	1:E:884:MET:CE	2.43	0.48
1:E:746:PHE:CD2	3:E:1901:NAP:H4D	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:759:ILE:HD12	1:E:759:ILE:N	2.29	0.48
1:E:1599:MET:HA	1:E:1602:PHE:CD2	2.48	0.48
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.12	0.48
2:G:903:ILE:HD11	2:G:914:TRP:CZ2	2.47	0.48
2:G:1128:PRO:HG2	2:G:1135:ALA:CB	2.44	0.48
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.95	0.48
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.65	0.48
2:H:1207:THR:O	2:H:1215:THR:HG23	2.13	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.42	0.48
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.49	0.48
2:I:1074:LYS:HE3	2:I:1075:TYR:CE1	2.47	0.48
2:I:1279:GLU:H	2:I:1279:GLU:CD	2.16	0.48
2:I:2008:THR:HG22	2:I:2011:ARG:HE	1.78	0.48
2:J:172:ILE:HG22	2:J:514:VAL:O	2.12	0.48
2:J:718:PRO:HG3	2:J:727:VAL:CG2	2.43	0.48
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.48	0.48
2:J:917:ARG:HH11	2:J:917:ARG:HG2	1.68	0.48
2:J:1352:VAL:HG11	2:J:1395:LEU:HD12	1.95	0.48
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.48	0.48
2:K:192:THR:O	2:K:194:PRO:HD3	2.12	0.48
2:K:472:THR:HG23	2:K:499:VAL:HA	1.94	0.48
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.71	0.48
2:K:950:TRP:CE2	2:K:956:LYS:HG3	2.47	0.48
2:K:1236:LEU:HD21	2:K:1239:ASP:O	2.12	0.48
2:K:1279:GLU:CD	2:K:1279:GLU:H	2.16	0.48
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.13	0.48
2:L:202:THR:O	2:L:206:GLU:HG3	2.14	0.48
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.43	0.48
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.42	0.48
2:L:750:GLY:O	2:L:865:ILE:HA	2.13	0.48
2:L:1026:LYS:HE2	2:L:1045:ASP:OD2	2.14	0.48
2:L:1204:VAL:HA	2:L:1218:SER:O	2.13	0.48
2:L:1403:ALA:HB2	2:L:1447:GLN:HG3	1.94	0.48
2:L:1587:TYR:O	2:L:1588:ASN:C	2.51	0.48
1:A:526:MET:HE1	1:A:614:PHE:HB3	1.94	0.48
1:A:577:LEU:HB2	1:A:579:MET:HG2	1.96	0.48
1:A:1011:ARG:HH11	1:A:1012:TRP:HA	1.78	0.48
1:A:1131:GLU:HG2	1:A:1138:TYR:CE2	2.47	0.48
1:B:427:ARG:HG3	1:B:492:ILE:HG12	1.95	0.48
1:C:782:LYS:NZ	1:C:786:LYS:HD2	2.28	0.48
1:C:1160:VAL:C	1:C:1352:MET:HE1	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:914:LEU:CD1	1:D:918:LEU:HD12	2.44	0.48
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.48
1:E:498:THR:HG21	1:E:858:LEU:O	2.13	0.48
1:E:529:GLY:HA2	1:E:614:PHE:CD2	2.49	0.48
1:E:1017:TYR:N	1:E:1017:TYR:CD1	2.81	0.48
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.76	0.48
1:F:1514:ILE:HD13	1:F:1545:LEU:HB3	1.94	0.48
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.78	0.48
2:G:708:THR:HB	2:G:709:LEU:HD23	1.96	0.48
2:G:747:ARG:NH2	2:G:757:PHE:CE1	2.82	0.48
2:G:824:THR:HG22	2:G:828:ALA:HB3	1.95	0.48
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.76	0.48
2:G:1977:ARG:CD	2:G:1978:LYS:HG3	2.44	0.48
2:H:76:VAL:O	2:H:80:ILE:HG13	2.13	0.48
2:H:756:ASP:CA	2:H:843:TRP:HH2	2.25	0.48
2:H:1872:GLU:OE1	2:H:1872:GLU:HA	2.14	0.48
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.48	0.48
2:I:472:THR:HB	2:I:493:MET:HB3	1.95	0.48
2:I:663:ILE:H	2:I:663:ILE:CD1	2.10	0.48
2:I:751:HIS:HB2	3:I:2102:NAP:N7N	2.28	0.48
2:I:765:TYR:CD2	2:I:805:MET:HG2	2.49	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.95	0.48
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.77	0.48
2:I:1894:THR:HB	2:I:1954:GLN:OE1	2.14	0.48
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.79	0.48
2:J:1336:VAL:O	2:J:1336:VAL:HG12	2.13	0.48
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.14	0.48
2:K:48:LEU:HD11	2:K:101:VAL:HG11	1.95	0.48
2:K:315:LEU:HA	2:K:318:ILE:HD12	1.94	0.48
2:K:318:ILE:HA	2:K:451:ILE:HD13	1.95	0.48
2:K:326:TYR:HA	2:L:1338:ARG:HH21	1.78	0.48
2:K:353:ILE:O	2:K:353:ILE:HG22	2.12	0.48
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.48
2:L:379:GLY:O	2:L:391:VAL:HG13	2.14	0.48
2:L:506:VAL:O	2:L:506:VAL:CG1	2.60	0.48
2:L:595:SER:HB3	2:L:602:PRO:CD	2.43	0.48
2:L:1753:ARG:HG3	2:L:1756:ILE:HD11	1.95	0.48
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.49	0.48
1:A:759:ILE:HG12	1:A:813:LEU:HD23	1.96	0.48
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.48
1:B:506:ILE:HD13	1:B:922:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1183:VAL:HG13	1:B:1252:GLU:OE1	2.13	0.48
1:C:575:ARG:HG2	1:C:579:MET:SD	2.53	0.48
1:C:905:LEU:HD22	1:C:911:LEU:CD2	2.43	0.48
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.28	0.48
1:D:628:TYR:HD1	1:D:629:SER:N	2.12	0.48
1:E:843:VAL:O	1:E:843:VAL:HG22	2.13	0.48
1:E:1495:ARG:HG2	1:E:1495:ARG:HH11	1.77	0.48
1:F:20:TYR:CE1	2:L:2018:ARG:NH2	2.81	0.48
1:F:1052:ASP:O	1:F:1055:THR:O	2.31	0.48
1:F:1223:GLY:CA	1:F:1276:PRO:HD2	2.41	0.48
1:F:1495:ARG:HG2	1:F:1495:ARG:HH11	1.78	0.48
1:F:1599:MET:HA	1:F:1602:PHE:CD2	2.48	0.48
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.49	0.48
2:G:192:THR:O	2:G:194:PRO:HD3	2.13	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.78	0.48
2:G:825:SER:HB2	2:G:1053:ILE:HG13	1.95	0.48
2:G:917:ARG:HB2	2:G:937:ARG:HD3	1.94	0.48
2:G:1194:ARG:HH21	2:G:1601:ASN:CG	2.17	0.48
2:G:1404:VAL:HA	2:G:1412:MET:O	2.13	0.48
2:G:1436:ARG:NH2	2:G:1602:LEU:HD11	2.28	0.48
2:G:1969:LEU:HA	2:G:1972:ILE:HD12	1.94	0.48
2:G:2039:TYR:O	2:G:2041:PRO:HD3	2.13	0.48
2:H:416:GLN:HE22	2:H:425:LYS:H	1.60	0.48
2:H:663:ILE:HD12	2:H:663:ILE:N	2.27	0.48
2:H:1751:GLY:O	2:H:1752:PRO:C	2.52	0.48
2:I:202:THR:HA	2:I:228:LEU:HD11	1.95	0.48
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.14	0.48
2:I:762:LEU:HD23	2:I:805:MET:HE1	1.93	0.48
2:I:868:LEU:O	2:I:870:THR:HG23	2.14	0.48
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.11	0.48
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.29	0.48
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.49	0.48
2:I:1350:ILE:HG22	2:I:1429:VAL:HG11	1.95	0.48
2:I:1443:GLU:OE1	2:I:1443:GLU:HA	2.14	0.48
2:I:1517:LEU:HD12	2:I:1521:GLU:HB2	1.94	0.48
2:I:1878:ARG:HE	2:I:1986:PRO:HG3	1.79	0.48
2:I:1905:GLU:O	2:I:1908:ALA:HB3	2.12	0.48
2:I:2010:LEU:O	2:I:2014:VAL:HG23	2.13	0.48
2:J:126:VAL:HG12	2:J:127:ALA:H	1.76	0.48
2:J:532:LYS:HD3	2:J:537:VAL:HG21	1.95	0.48
2:J:609:THR:CG2	2:J:633:GLY:HA3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:903:ILE:HD11	2:J:914:TRP:CZ2	2.48	0.48
2:J:1293:TRP:NE1	2:J:1354:TRP:HZ2	2.11	0.48
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.95	0.48
2:K:685:VAL:CG1	2:K:687:ILE:HG13	2.38	0.48
2:K:856:THR:HG23	2:K:866:HIS:NE2	2.28	0.48
2:K:1266:HIS:CD2	2:K:1275:ARG:CZ	2.97	0.48
2:K:1610:MET:HE2	2:K:1610:MET:CA	2.33	0.48
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.49	0.48
2:L:353:ILE:HG22	2:L:353:ILE:O	2.12	0.48
2:L:511:THR:C	2:L:512:HIS:CD2	2.87	0.48
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.48	0.48
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.49	0.48
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	1.96	0.48
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.94	0.48
1:A:382:ILE:HD12	1:A:761:SER:HB3	1.95	0.48
1:A:401:SER:O	1:A:405:TRP:CD1	2.67	0.48
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.96	0.48
1:B:585:MET:O	1:B:586:GLN:C	2.51	0.48
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.42	0.48
1:C:500:ILE:HD11	1:C:922:ILE:HG23	1.95	0.48
1:C:1075:HIS:HB3	1:C:1166:THR:HB	1.93	0.48
1:D:846:TRP:HZ2	1:D:856:ASN:O	1.96	0.48
1:D:1463:GLU:O	1:D:1467:LEU:HB2	2.14	0.48
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.96	0.48
1:E:662:ALA:HA	1:E:694:TYR:OH	2.13	0.48
1:E:927:ALA:HB1	2:K:1462:GLN:NE2	2.29	0.48
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.46	0.48
1:F:1017:TYR:N	1:F:1017:TYR:CD1	2.80	0.48
1:F:1129:ILE:HA	1:F:1139:THR:O	2.13	0.48
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.48	0.48
2:G:372:LEU:CD1	2:G:397:SER:HB2	2.42	0.48
2:G:502:GLU:O	2:G:506:VAL:HG23	2.13	0.48
2:G:609:THR:HG23	4:G:2101:FMN:O4	2.13	0.48
2:G:699:ILE:HD12	2:G:699:ILE:N	2.28	0.48
2:H:1180:VAL:CG1	2:H:1188:GLN:H	2.27	0.48
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.14	0.48
2:H:1405:ILE:HA	2:H:1445:THR:OG1	2.12	0.48
2:I:48:LEU:HD13	2:I:101:VAL:HG11	1.96	0.48
2:I:250:PHE:O	2:I:315:LEU:HD23	2.13	0.48
2:I:685:VAL:HA	2:I:686:PRO:HD3	1.60	0.48
2:I:907:ASN:HA	2:I:913:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.77	0.48
2:J:459:LYS:O	2:J:461:PRO:HD3	2.14	0.48
2:J:465:LEU:HB2	2:J:479:ARG:CG	2.43	0.48
2:J:613:VAL:HG13	2:J:614:PRO:HD3	1.96	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:K:1350:ILE:HG22	2:K:1429:VAL:HG11	1.96	0.48
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.48
2:L:1269:ALA:HB1	2:L:1271:TYR:CE1	2.49	0.48
2:L:1551:ILE:CG2	2:L:1552:GLU:N	2.76	0.48
2:L:1844:LEU:HD22	2:L:1850:VAL:HG21	1.95	0.48
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.40	0.48
1:B:620:LYS:HE3	1:B:626:TRP:CZ2	2.49	0.48
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.48	0.48
1:C:23:ALA:HA	2:I:2007:SER:O	2.14	0.48
1:C:959:PRO:CG	2:I:974:GLU:HG3	2.42	0.48
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.44	0.48
1:D:1293:THR:HG23	1:D:1298:LYS:HB2	1.95	0.48
1:D:1705:GLN:HA	1:D:1711:LEU:HD23	1.95	0.48
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.78	0.48
1:E:1640:LYS:HD2	1:E:1641:TYR:CE1	2.49	0.48
2:G:22:ARG:HD2	2:G:42:HIS:HB3	1.96	0.48
2:G:529:ASN:HD22	2:G:552:VAL:HG23	1.79	0.48
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	2.14	0.48
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.14	0.48
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.13	0.48
2:H:43:PHE:CZ	2:I:42:HIS:CD2	3.01	0.48
2:H:582:LYS:HA	2:H:587:GLN:O	2.13	0.48
2:I:187:ARG:NH2	2:I:230:TRP:O	2.46	0.48
2:I:317:TRP:O	2:I:321:ARG:HG2	2.13	0.48
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.28	0.48
2:I:875:PHE:O	2:I:878:GLU:HB2	2.14	0.48
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.13	0.48
2:I:2044:THR:HG22	2:I:2046:LYS:H	1.78	0.48
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.73	0.48
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.28	0.48
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.29	0.48
2:J:1946:LEU:HD22	2:J:1951:ILE:HG12	1.95	0.48
2:K:317:TRP:CD1	2:K:454:ASP:CG	2.87	0.48
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.94	0.48
2:K:613:VAL:N	2:K:614:PRO:CD	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:756:ASP:CA	2:K:843:TRP:HH2	2.27	0.48
2:K:937:ARG:NE	2:K:941:LEU:CD1	2.77	0.48
2:K:1299:VAL:HG13	2:K:1301:PHE:CE1	2.47	0.48
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.29	0.48
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.49	0.48
1:A:662:ALA:HA	1:A:694:TYR:CZ	2.49	0.48
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.35	0.48
1:B:1132:ILE:HD12	1:B:1137:GLN:HB2	1.94	0.48
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.96	0.48
1:C:585:MET:O	1:C:586:GLN:C	2.52	0.48
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.96	0.48
1:D:491:SER:O	1:D:493:PRO:HD3	2.13	0.48
1:D:500:ILE:HD11	1:D:922:ILE:HG23	1.94	0.48
1:D:1050:TRP:HA	1:D:1050:TRP:CE3	2.48	0.48
1:E:1363:MET:HE3	1:E:1368:ALA:CB	2.44	0.48
1:E:1702:ARG:HG2	1:E:1702:ARG:NH1	2.17	0.48
2:G:609:THR:CB	2:G:610:PRO:HD3	2.44	0.48
2:G:1497:ARG:O	2:G:1505:SER:HB3	2.14	0.48
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	1.94	0.48
2:H:391:VAL:HG12	2:H:398:LEU:HD21	1.95	0.48
2:H:1299:VAL:HG13	2:H:1301:PHE:CE1	2.49	0.48
2:H:1335:PHE:CZ	2:H:1629:ILE:HD13	2.49	0.48
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.48
2:I:270:ARG:HG3	2:I:274:GLU:CD	2.33	0.48
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.75	0.48
2:I:1200:ARG:H	2:I:1200:ARG:CD	2.14	0.48
2:I:1610:MET:HA	2:I:1610:MET:CE	2.34	0.48
2:I:2013:GLY:C	2:I:2016:PRO:HD2	2.33	0.48
2:J:271:GLU:H	2:J:274:GLU:HG3	1.78	0.48
2:J:618:VAL:CG1	2:J:648:ILE:HD11	2.43	0.48
2:J:663:ILE:HD12	2:J:663:ILE:N	2.25	0.48
2:J:716:PHE:CD1	2:J:727:VAL:HG13	2.48	0.48
2:J:1180:VAL:HA	2:J:1188:GLN:O	2.14	0.48
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.94	0.48
2:J:1266:HIS:CD2	2:J:1275:ARG:CZ	2.97	0.48
2:J:1366:ILE:O	2:J:1366:ILE:HG22	2.13	0.48
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.48
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.44	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.48	0.48
2:K:202:THR:HA	2:K:228:LEU:HD11	1.96	0.48
2:K:372:LEU:CD1	2:K:397:SER:HB2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:594:MET:HB3	2:K:808:ASP:O	2.13	0.48
2:K:820:LYS:HG3	2:K:821:GLU:HG2	1.95	0.48
2:K:1331:THR:O	2:K:1331:THR:HG22	2.13	0.48
2:K:1366:ILE:HG22	2:K:1366:ILE:O	2.13	0.48
2:K:2039:TYR:O	2:K:2041:PRO:HD3	2.13	0.48
2:L:285:HIS:CD2	2:L:501:TRP:CE3	3.02	0.48
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.95	0.48
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.37	0.48
1:A:492:ILE:H	1:A:492:ILE:HG13	1.48	0.48
1:A:562:SER:CB	1:F:555:GLN:OE1	2.62	0.48
1:A:754:ARG:N	1:A:810:ASN:HB3	2.28	0.48
1:A:1102:ILE:HD11	1:A:1148:LEU:HG	1.95	0.48
1:B:60:THR:HG23	2:H:1922:VAL:HG13	1.96	0.48
1:B:959:PRO:HG2	2:H:974:GLU:HG3	1.96	0.48
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.13	0.48
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.95	0.48
1:C:720:GLN:HG3	1:D:378:GLU:OE2	2.14	0.48
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.14	0.48
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.46	0.48
1:D:859:VAL:HG12	1:D:859:VAL:O	2.13	0.48
1:D:967:PHE:CZ	1:D:1662:GLN:HA	2.49	0.48
1:E:1078:ILE:HG23	1:E:1352:MET:HE3	1.95	0.48
1:E:1084:GLU:H	1:E:1084:GLU:CD	2.17	0.48
2:G:608:MET:H	2:G:612:THR:CB	2.27	0.48
2:G:775:VAL:HG12	2:G:777:VAL:HG23	1.96	0.48
2:G:942:MET:O	2:G:951:ILE:HG13	2.14	0.48
2:G:1269:ALA:HB1	2:G:1271:TYR:CE1	2.49	0.48
2:G:1729:ASN:O	2:G:1757:ILE:HG23	2.13	0.48
2:H:1644:LEU:HB3	2:H:1645:PRO:CD	2.44	0.48
2:H:1769:VAL:HG13	2:H:1774:SER:C	2.34	0.48
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.44	0.48
2:I:601:PRO:HA	2:I:602:PRO:HD3	1.76	0.48
2:I:1301:PHE:O	2:I:1364:ARG:N	2.41	0.48
2:I:1795:SER:HB3	2:I:1799:LEU:HD12	1.95	0.48
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.34	0.48
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.44	0.48
2:J:505:THR:O	2:J:505:THR:HG22	2.14	0.48
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.34	0.48
2:K:609:THR:HA	2:K:631:ALA:HB1	1.94	0.48
2:K:930:THR:CG2	2:K:933:GLU:H	2.24	0.48
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.78	0.48
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.48	0.48
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.79	0.48
2:L:1517:LEU:HD12	2:L:1521:GLU:HB2	1.95	0.48
1:C:759:ILE:HG12	1:C:813:LEU:HD23	1.96	0.48
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.49	0.48
1:D:684:THR:CG2	1:D:686:ARG:H	2.19	0.48
1:D:1096:LEU:O	1:D:1097:LEU:HD23	2.14	0.48
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.59	0.48
1:E:1686:PRO:HB2	1:E:1713:PHE:CE1	2.49	0.48
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.42	0.48
1:F:983:GLN:O	1:F:987:MET:HG3	2.13	0.48
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.14	0.48
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.49	0.48
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.16	0.48
2:G:582:LYS:HA	2:G:587:GLN:O	2.13	0.48
2:G:1200:ARG:HD3	2:G:1200:ARG:N	2.10	0.48
2:G:1442:TYR:CG	2:G:1499:LYS:O	2.67	0.48
2:G:1977:ARG:HD3	2:G:1978:LYS:HG3	1.95	0.48
2:H:300:THR:H	2:H:303:GLU:HB3	1.77	0.48
2:H:917:ARG:HB2	2:H:937:ARG:HD3	1.94	0.48
2:H:1044:LYS:HE2	3:H:2102:NAP:H4B	1.96	0.48
2:H:1204:VAL:HA	2:H:1218:SER:O	2.14	0.48
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	2.13	0.48
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.94	0.48
2:H:1894:THR:HB	2:H:1954:GLN:OE1	2.14	0.48
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.95	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG2	1.96	0.48
2:I:1881:TYR:CZ	2:I:2009:PHE:HE1	2.32	0.48
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.96	0.48
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.14	0.48
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.14	0.48
2:K:903:ILE:HD11	2:K:914:TRP:CZ2	2.48	0.48
2:K:1234:ILE:HG22	2:K:1242:ILE:HG22	1.95	0.48
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.49	0.48
2:L:290:VAL:CG1	2:L:314:LEU:HD23	2.42	0.48
2:L:489:GLU:O	2:L:493:MET:HG3	2.13	0.48
2:L:685:VAL:CG1	2:L:687:ILE:HG13	2.40	0.48
2:L:938:MET:O	2:L:942:MET:HG3	2.14	0.48
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.28	0.48
2:L:1745:LEU:HD12	2:L:1746:THR:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1746:THR:CB	2:L:1792:THR:HG23	2.40	0.48
1:A:472:GLN:HE21	1:A:472:GLN:HA	1.79	0.47
1:A:493:PRO:HD2	1:A:517:ARG:O	2.14	0.47
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.15	0.47
1:B:857:ASN:HA	1:B:860:ALA:HB2	1.96	0.47
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.28	0.47
1:D:740:LEU:HD12	1:D:781:ILE:HD13	1.96	0.47
1:D:754:ARG:N	1:D:810:ASN:HB3	2.29	0.47
1:D:1213:VAL:CG1	1:D:1214:HIS:N	2.77	0.47
1:E:544:ASP:O	1:E:548:VAL:HG23	2.14	0.47
1:E:876:MET:O	1:E:876:MET:HE3	2.13	0.47
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.41	0.47
1:F:46:GLU:HB3	1:F:80:CYS:HA	1.96	0.47
1:F:869:ARG:O	1:F:903:GLY:HA3	2.13	0.47
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.96	0.47
2:G:48:LEU:HD13	2:G:101:VAL:HG11	1.94	0.47
2:G:196:PHE:CD2	2:G:196:PHE:N	2.82	0.47
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.44	0.47
2:G:821:GLU:CD	2:G:1083:ILE:HG13	2.34	0.47
2:G:907:ASN:OD1	2:G:913:VAL:HG12	2.14	0.47
2:G:1317:ASN:HB3	2:G:1320:ALA:CB	2.44	0.47
2:G:1886:VAL:HG22	2:G:1995:THR:HG22	1.95	0.47
2:H:134:ILE:HG13	2:H:545:ILE:CD1	2.44	0.47
2:H:930:THR:O	2:H:934:VAL:HG23	2.13	0.47
2:H:1328:VAL:HA	2:H:1611:TYR:HE1	1.79	0.47
2:H:1734:ILE:O	2:H:1738:VAL:HG23	2.13	0.47
2:I:276:LEU:HD21	2:I:296:ALA:HA	1.95	0.47
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.44	0.47
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.49	0.47
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.48	0.47
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.29	0.47
2:J:529:ASN:HD22	2:J:552:VAL:HG23	1.79	0.47
2:J:614:PRO:O	2:J:618:VAL:HG12	2.13	0.47
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.49	0.47
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.49	0.47
2:K:502:GLU:O	2:K:506:VAL:HG23	2.14	0.47
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.96	0.47
2:K:708:THR:HB	2:K:709:LEU:HD23	1.96	0.47
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.44	0.47
2:K:1204:VAL:HA	2:K:1218:SER:O	2.14	0.47
2:L:196:PHE:N	2:L:196:PHE:CD2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:270:ARG:HG3	2:L:274:GLU:CD	2.34	0.47
2:L:775:VAL:HG12	2:L:777:VAL:HG23	1.95	0.47
2:L:1047:LEU:N	2:L:1047:LEU:HD12	2.29	0.47
2:L:1120:ILE:HG13	2:L:1169:TYR:CE2	2.49	0.47
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.95	0.47
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.95	0.47
1:A:441:ASN:HB2	1:A:444:LEU:H	1.79	0.47
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.95	0.47
1:B:535:TYR:CD1	1:B:610:GLU:HB3	2.49	0.47
1:B:546:ARG:NH1	1:B:631:LYS:NZ	2.62	0.47
1:B:746:PHE:CD1	1:B:800:PRO:HG3	2.49	0.47
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.96	0.47
1:C:409:ASP:HB2	1:C:439:ARG:HH12	1.79	0.47
1:C:849:GLY:HA3	1:C:873:GLN:HG3	1.95	0.47
1:C:989:ASN:H	1:C:1491:ASN:ND2	2.00	0.47
1:C:1443:LEU:HD22	1:C:1474:ILE:HD11	1.95	0.47
1:D:1131:GLU:HG2	1:D:1138:TYR:CE2	2.49	0.47
1:D:1565:PRO:O	1:D:1566:LYS:C	2.52	0.47
1:E:457:THR:HG22	1:E:464:GLN:HA	1.96	0.47
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.77	0.47
1:F:1337:PRO:HA	1:F:1340:MET:HG3	1.95	0.47
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.14	0.47
2:G:193:TYR:HD1	2:G:263:ILE:HD13	1.77	0.47
2:G:966:VAL:O	2:G:970:PHE:HD1	1.96	0.47
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.47
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.97	0.47
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.47
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.44	0.47
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.14	0.47
2:H:1753:ARG:HG3	2:H:1756:ILE:CD1	2.43	0.47
2:H:1932:ASP:O	2:H:1936:LEU:HD23	2.14	0.47
2:I:501:TRP:CZ2	2:I:524:ILE:HG21	2.49	0.47
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.17	0.47
2:I:1171:TRP:CD1	2:I:1172:ARG:N	2.83	0.47
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.15	0.47
2:I:2009:PHE:HD2	2:I:2009:PHE:C	2.18	0.47
2:J:155:ASP:HB3	2:J:278:ARG:NH1	2.29	0.47
2:J:737:PHE:O	2:J:773:ASN:HB3	2.14	0.47
2:J:917:ARG:HD3	2:J:937:ARG:CZ	2.43	0.47
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.95	0.47
2:J:1171:TRP:CH2	2:J:1236:LEU:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:202:THR:O	2:K:206:GLU:HG3	2.13	0.47
2:K:600:VAL:HG13	2:K:601:PRO:N	2.28	0.47
2:L:92:GLU:HA	2:L:95:HIS:CE1	2.48	0.47
2:L:208:LEU:HD23	2:L:211:LEU:HD12	1.96	0.47
2:L:459:LYS:O	2:L:461:PRO:HD3	2.14	0.47
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.47
2:L:1622:THR:HA	2:L:1627:ASN:OD1	2.13	0.47
2:L:1865:LEU:O	2:L:1869:VAL:HG22	2.14	0.47
1:A:452:ILE:CD1	1:A:467:LYS:HA	2.43	0.47
1:A:502:ALA:HA	1:A:929:ARG:HD3	1.95	0.47
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.47
1:B:392:ASP:HA	1:B:393:PRO:HD2	1.70	0.47
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	2.11	0.47
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.44	0.47
1:B:1514:ILE:HD13	1:B:1545:LEU:HB3	1.96	0.47
1:B:1565:PRO:O	1:B:1566:LYS:C	2.52	0.47
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.14	0.47
1:D:42:GLU:HG3	2:J:1689:VAL:HG23	1.95	0.47
1:D:329:THR:O	1:D:332:GLN:HB2	2.14	0.47
1:D:914:LEU:HD11	1:D:918:LEU:HD12	1.97	0.47
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.28	0.47
1:D:1160:VAL:C	1:D:1352:MET:HE1	2.35	0.47
1:E:1393:VAL:N	1:E:1394:PRO:CD	2.77	0.47
1:F:560:LYS:O	1:F:564:LEU:HB2	2.15	0.47
1:F:1102:ILE:HD11	1:F:1148:LEU:HG	1.95	0.47
2:G:601:PRO:HB2	2:G:626:TYR:CE2	2.50	0.47
2:G:1200:ARG:H	2:G:1200:ARG:CD	2.14	0.47
2:H:290:VAL:HG11	2:H:315:LEU:CD1	2.44	0.47
2:H:608:MET:HA	4:H:2101:FMN:N5	2.30	0.47
2:H:609:THR:HG23	4:H:2101:FMN:O4	2.14	0.47
2:H:1722:ALA:HB1	2:H:1812:LEU:HD21	1.95	0.47
2:I:440:HIS:NE2	2:I:499:VAL:HG23	2.28	0.47
2:I:747:ARG:HH11	2:I:780:SER:CB	2.24	0.47
2:I:907:ASN:OD1	2:I:913:VAL:HG12	2.14	0.47
2:I:1204:VAL:HA	2:I:1218:SER:O	2.14	0.47
2:I:1538:ASN:HB3	2:I:1541:ILE:CG2	2.42	0.47
2:J:153:PRO:HB3	2:J:270:ARG:NH1	2.29	0.47
2:J:202:THR:HA	2:J:228:LEU:HD11	1.96	0.47
2:J:617:PHE:HE1	2:J:819:ALA:HB3	1.79	0.47
2:J:942:MET:O	2:J:951:ILE:HG13	2.14	0.47
2:K:501:TRP:CZ2	2:K:524:ILE:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:609:THR:HG23	4:K:2101:FMN:O4	2.15	0.47
2:K:635:TYR:CD2	2:K:641:MET:HG3	2.49	0.47
2:K:655:GLY:HA3	2:K:1272:ALA:CB	2.44	0.47
2:K:818:THR:HG22	2:K:829:LYS:CB	2.36	0.47
2:K:1123:ALA:O	2:K:1126:GLU:HG3	2.14	0.47
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.96	0.47
2:L:372:LEU:CD1	2:L:397:SER:HB2	2.43	0.47
2:L:460:ILE:O	2:L:486:ILE:N	2.46	0.47
2:L:747:ARG:HH11	2:L:780:SER:CB	2.22	0.47
2:L:1743:LYS:HA	2:L:1798:GLY:HA2	1.97	0.47
2:L:1905:GLU:O	2:L:1908:ALA:HB3	2.15	0.47
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.95	0.47
1:A:746:PHE:CG	3:A:1901:NAP:H4D	2.49	0.47
1:A:869:ARG:O	1:A:903:GLY:HA3	2.14	0.47
1:A:929:ARG:O	1:A:933:ILE:HG13	2.15	0.47
1:B:684:THR:CG2	1:B:686:ARG:H	2.18	0.47
1:B:846:TRP:HZ2	1:B:856:ASN:O	1.98	0.47
1:B:1599:MET:HA	1:B:1602:PHE:CD2	2.49	0.47
1:C:537:ASN:CB	1:C:585:MET:SD	3.02	0.47
1:C:875:GLU:O	1:C:878:PHE:HB3	2.13	0.47
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.15	0.47
1:D:1004:PRO:HD3	1:D:1572:TRP:HH2	1.79	0.47
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.95	0.47
1:E:383:TYR:O	1:E:387:ILE:HG12	2.14	0.47
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.14	0.47
1:F:441:ASN:HB2	1:F:444:LEU:H	1.79	0.47
1:F:498:THR:HG21	1:F:858:LEU:O	2.15	0.47
1:F:1307:PHE:HB3	1:F:1357:CYS:HB3	1.97	0.47
2:G:92:GLU:HA	2:G:95:HIS:CE1	2.49	0.47
2:G:937:ARG:NE	2:G:941:LEU:CD1	2.77	0.47
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.15	0.47
2:G:1338:ARG:HH21	2:I:326:TYR:HA	1.79	0.47
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.96	0.47
2:G:1945:ILE:HG22	2:G:1946:LEU:N	2.28	0.47
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.96	0.47
2:H:751:HIS:HB2	3:H:2102:NAP:N7N	2.29	0.47
2:I:167:VAL:HG23	2:I:169:ILE:HG13	1.95	0.47
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.80	0.47
2:I:290:VAL:HG11	2:I:315:LEU:CD1	2.44	0.47
2:I:511:THR:C	2:I:512:HIS:CD2	2.88	0.47
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:798:THR:HA	2:I:802:TYR:O	2.14	0.47
2:J:528:THR:HA	2:J:531:ASN:ND2	2.29	0.47
2:J:872:GLY:HA2	2:J:909:ASP:O	2.15	0.47
2:J:1887:ASN:OD1	2:J:1889:SER:HB2	2.13	0.47
2:K:22:ARG:HD2	2:K:42:HIS:HB3	1.95	0.47
2:K:385:SER:HA	2:K:502:GLU:OE1	2.14	0.47
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.13	0.47
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.43	0.47
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.15	0.47
2:L:686:PRO:HB3	2:L:1187:PHE:HE1	1.76	0.47
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.14	0.47
2:L:1266:HIS:CD2	2:L:1275:ARG:CZ	2.97	0.47
2:L:1872:GLU:OE1	2:L:1872:GLU:HA	2.13	0.47
1:A:408:GLN:CG	1:A:1610:ARG:NH1	2.78	0.47
1:A:565:GLN:O	1:A:569:LEU:HG	2.13	0.47
1:B:768:ARG:HA	1:B:772:THR:OG1	2.14	0.47
1:B:1042:LEU:HD12	1:B:1058:PRO:HG3	1.94	0.47
1:B:1496:ARG:NH2	1:D:1297:GLY:HA2	2.30	0.47
1:C:36:LEU:HD22	1:C:61:LEU:HD21	1.96	0.47
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.96	0.47
1:C:1229:THR:HB	1:C:1311:GLN:HG3	1.97	0.47
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.79	0.47
1:D:767:HIS:NE2	1:D:771:LEU:HD22	2.29	0.47
1:E:626:TRP:CE3	1:E:898:PHE:HB2	2.49	0.47
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.42	0.47
1:F:1082:GLU:HB2	1:F:1085:LEU:HD12	1.97	0.47
1:F:1584:GLY:HA2	1:F:1617:ILE:CD1	2.45	0.47
2:G:589:PHE:CD1	2:G:1116:PHE:CD2	3.02	0.47
2:G:1331:THR:HG22	2:G:1331:THR:O	2.14	0.47
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.13	0.47
2:G:1753:ARG:HG3	2:G:1756:ILE:CD1	2.44	0.47
2:H:168:LYS:H	2:H:511:THR:HB	1.79	0.47
2:H:604:MET:CE	2:H:811:MET:HB2	2.45	0.47
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.57	0.47
2:H:717:LYS:HD2	4:H:2101:FMN:O2	2.15	0.47
2:H:1656:VAL:O	2:H:1656:VAL:HG22	2.14	0.47
2:H:1701:GLU:N	2:H:1704:MET:HE3	2.29	0.47
2:H:1805:PHE:O	2:H:1808:PRO:HD2	2.13	0.47
2:I:300:THR:H	2:I:303:GLU:HB3	1.78	0.47
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	2.15	0.47
2:J:76:VAL:HG11	2:J:109:PHE:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:HA	2:J:631:ALA:HB1	1.96	0.47
2:J:818:THR:HA	2:J:829:LYS:HE2	1.97	0.47
2:K:76:VAL:HG11	2:K:109:PHE:CD1	2.49	0.47
2:K:388:ASN:HD22	2:K:389:PHE:N	2.13	0.47
2:K:1113:ILE:CG2	2:K:1169:TYR:CG	2.98	0.47
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.49	0.47
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.96	0.47
2:K:1766:PHE:CE1	2:K:1869:VAL:HG23	2.50	0.47
2:K:1961:SER:O	2:K:1965:VAL:HG22	2.15	0.47
2:L:747:ARG:NH2	2:L:757:PHE:CE1	2.83	0.47
2:L:1324:PHE:CA	2:L:1583:VAL:HG11	2.44	0.47
1:A:413:MET:O	1:A:416:ASP:HB2	2.14	0.47
1:A:852:LEU:O	1:A:852:LEU:HD23	2.15	0.47
1:A:868:VAL:HG11	1:A:908:ILE:CD1	2.37	0.47
1:A:1186:VAL:HG12	1:A:1187:THR:N	2.30	0.47
1:A:1414:PRO:HG2	1:E:1473:HIS:NE2	2.30	0.47
1:A:1443:LEU:HD22	1:A:1474:ILE:HD11	1.96	0.47
1:B:526:MET:HE3	1:B:614:PHE:HB2	1.97	0.47
1:B:849:GLY:HA3	1:B:873:GLN:HG3	1.97	0.47
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.31	0.47
1:B:1148:LEU:CD1	1:D:1148:LEU:HD13	2.28	0.47
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.14	0.47
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.50	0.47
1:C:876:MET:O	1:C:876:MET:HE3	2.14	0.47
1:C:911:LEU:O	1:C:911:LEU:HD12	2.14	0.47
1:C:984:LEU:HD21	1:C:1510:TRP:O	2.15	0.47
1:E:407:ARG:NH2	1:E:1603:ASP:O	2.47	0.47
1:E:1404:ALA:HA	1:E:1501:ALA:HB1	1.96	0.47
1:F:6:GLU:HA	2:L:2050:ILE:CD1	2.44	0.47
1:F:358:PHE:C	1:F:358:PHE:CD2	2.88	0.47
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.42	0.47
2:G:117:ASN:OD1	2:G:561:ARG:HB2	2.15	0.47
2:G:781:GLY:CA	2:G:1071:VAL:HG13	2.44	0.47
2:G:929:MET:HE1	2:G:934:VAL:HG22	1.95	0.47
2:H:1317:ASN:HB3	2:H:1320:ALA:CB	2.44	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.50	0.47
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.14	0.47
2:I:57:PRO:HB2	2:I:65:GLN:HE22	1.78	0.47
2:I:502:GLU:O	2:I:506:VAL:HG23	2.14	0.47
2:I:2009:PHE:C	2:I:2009:PHE:CD2	2.88	0.47
2:J:35:PHE:CD2	2:J:37:VAL:HG22	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:318:ILE:HA	2:J:451:ILE:HD13	1.97	0.47
2:J:1331:THR:HG22	2:J:1331:THR:O	2.15	0.47
2:J:1555:VAL:O	2:J:1555:VAL:HG12	2.14	0.47
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.97	0.47
2:J:1753:ARG:HG3	2:J:1756:ILE:HD11	1.95	0.47
2:K:270:ARG:HG3	2:K:274:GLU:CD	2.34	0.47
2:K:285:HIS:CD2	2:K:501:TRP:CE3	3.02	0.47
2:K:290:VAL:CG1	2:K:314:LEU:HD23	2.44	0.47
2:K:490:LEU:HA	2:K:493:MET:SD	2.55	0.47
2:K:1708:LEU:O	2:K:1708:LEU:HD22	2.14	0.47
2:K:1886:VAL:HG22	2:K:1995:THR:HG22	1.95	0.47
2:L:251:PRO:CG	2:L:316:PHE:HA	2.44	0.47
2:L:352:SER:HB2	2:L:433:LEU:HD11	1.96	0.47
2:L:765:TYR:CD2	2:L:805:MET:HG2	2.50	0.47
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.45	0.47
2:L:1311:GLY:HA3	2:L:1397:THR:HB	1.97	0.47
2:L:1555:VAL:HG12	2:L:1555:VAL:O	2.15	0.47
2:L:1722:ALA:HB1	2:L:1812:LEU:HD21	1.97	0.47
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.13	0.47
1:A:334:ALA:O	1:A:338:GLN:HG3	2.15	0.47
1:A:960:ARG:NH1	2:G:968:GLU:OE1	2.47	0.47
1:A:1488:SER:HB3	1:E:1484:GLU:OE1	2.14	0.47
1:A:1599:MET:HA	1:A:1602:PHE:CD2	2.48	0.47
1:B:967:PHE:CD2	1:B:1662:GLN:HB2	2.50	0.47
1:B:1106:LEU:HD12	1:D:1104:GLN:NE2	2.29	0.47
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.14	0.47
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.95	0.47
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.14	0.47
1:D:29:ILE:HD13	2:J:1923:ALA:HA	1.96	0.47
1:D:392:ASP:HA	1:D:393:PRO:HD2	1.73	0.47
1:D:565:GLN:O	1:D:569:LEU:HG	2.13	0.47
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.45	0.47
1:D:1075:HIS:HB3	1:D:1166:THR:HB	1.96	0.47
1:E:50:SER:HB2	1:E:52:THR:HG23	1.97	0.47
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.30	0.47
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.14	0.47
1:F:1148:LEU:HD23	1:F:1148:LEU:HA	1.62	0.47
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.30	0.47
2:G:168:LYS:H	2:G:511:THR:HB	1.80	0.47
2:G:271:GLU:H	2:G:274:GLU:HG3	1.80	0.47
2:G:276:LEU:HD21	2:G:296:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:381:SER:OG	2:G:392:THR:HG23	2.14	0.47
2:G:472:THR:HG23	2:G:499:VAL:HA	1.97	0.47
2:G:685:VAL:CG2	2:G:1186:ARG:HH12	2.19	0.47
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.47
2:G:1028:VAL:HA	2:G:1029:PRO:HD3	1.74	0.47
2:G:1142:ILE:HG13	2:G:1209:PRO:HG2	1.97	0.47
2:G:1234:ILE:HG22	2:G:1242:ILE:HG22	1.96	0.47
2:G:1352:VAL:HG11	2:G:1395:LEU:HD12	1.96	0.47
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.14	0.47
2:G:1914:LEU:O	2:G:1931:GLY:HA3	2.14	0.47
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.79	0.47
2:H:43:PHE:CB	2:I:22:ARG:NE	2.77	0.47
2:H:126:VAL:HG12	2:H:127:ALA:H	1.79	0.47
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.44	0.47
2:H:589:PHE:CD1	2:H:1116:PHE:CD2	3.03	0.47
2:H:821:GLU:CD	2:H:1083:ILE:HG13	2.35	0.47
2:H:838:VAL:HG12	2:H:839:ASP:N	2.30	0.47
2:H:1047:LEU:HD12	2:H:1047:LEU:H	1.79	0.47
2:H:1370:LEU:CA	2:H:1435:TYR:HE2	2.27	0.47
2:H:1587:TYR:O	2:H:1588:ASN:C	2.53	0.47
2:H:1655:HIS:HE1	2:H:1657:GLY:O	1.98	0.47
2:H:1738:VAL:HA	2:H:1800:LEU:HD13	1.96	0.47
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.80	0.47
2:H:2009:PHE:C	2:H:2009:PHE:CD2	2.88	0.47
2:I:315:LEU:HA	2:I:318:ILE:HD12	1.95	0.47
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.45	0.47
2:I:708:THR:HB	2:I:709:LEU:HD23	1.96	0.47
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.97	0.47
2:I:1886:VAL:HG22	2:I:1995:THR:HG22	1.97	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.45	0.47
2:J:594:MET:HB3	2:J:808:ASP:O	2.14	0.47
2:J:716:PHE:HD1	2:J:727:VAL:CG1	2.27	0.47
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.39	0.47
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.29	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.13	0.47
2:J:938:MET:O	2:J:942:MET:HG3	2.14	0.47
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.29	0.47
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.96	0.47
2:J:1768:THR:O	2:J:1776:LYS:HB2	2.15	0.47
2:J:1844:LEU:HD22	2:J:1850:VAL:HG21	1.97	0.47
2:J:2021:LEU:HD22	2:J:2025:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:92:GLU:HA	2:K:95:HIS:CE1	2.49	0.47
2:K:162:ALA:CA	2:K:167:VAL:HG22	2.42	0.47
2:K:611:THR:HG21	2:K:817:MET:HE2	1.95	0.47
2:K:685:VAL:CG2	2:K:1186:ARG:NH1	2.69	0.47
2:K:728:ILE:O	2:K:732:LYS:HG3	2.14	0.47
2:K:791:TYR:CD2	2:K:796:TRP:CG	3.03	0.47
2:K:846:THR:HG22	2:K:855:ILE:C	2.35	0.47
2:K:1321:VAL:HG12	2:K:1322:ALA:N	2.29	0.47
2:K:1380:TYR:HD2	2:K:1429:VAL:HG22	1.80	0.47
2:K:1497:ARG:O	2:K:1505:SER:HB3	2.14	0.47
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.44	0.47
2:K:1551:ILE:HG22	2:K:1552:GLU:N	2.29	0.47
2:K:1894:THR:HB	2:K:1954:GLN:OE1	2.15	0.47
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.44	0.47
2:L:76:VAL:HG11	2:L:109:PHE:HD1	1.79	0.47
2:L:250:PHE:O	2:L:315:LEU:HD23	2.15	0.47
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.44	0.47
2:L:534:GLY:O	2:L:571:ASP:HA	2.14	0.47
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.48	0.47
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.50	0.47
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.97	0.47
2:L:979:LEU:HB2	2:L:996:ILE:HG23	1.97	0.47
2:L:1473:PHE:HE1	2:L:1513:VAL:HG21	1.79	0.47
2:L:1643:VAL:CG1	2:L:1649:ILE:HD11	2.44	0.47
2:L:1753:ARG:HG3	2:L:1756:ILE:CD1	2.44	0.47
1:A:411:LEU:HD22	1:A:1612:ILE:HD13	1.96	0.47
1:A:960:ARG:HB3	2:G:969:ARG:NH1	2.30	0.47
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.78	0.47
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.45	0.47
1:B:427:ARG:CG	1:B:427:ARG:NH1	2.54	0.47
1:B:889:VAL:O	1:B:893:GLN:HG3	2.15	0.47
1:C:383:TYR:O	1:C:387:ILE:HG12	2.15	0.47
1:C:740:LEU:HD12	1:C:781:ILE:HD13	1.96	0.47
1:C:859:VAL:HG12	1:C:859:VAL:O	2.15	0.47
1:C:1104:GLN:HE22	1:F:1106:LEU:HD12	1.80	0.47
1:C:1414:PRO:HG2	1:F:1473:HIS:CD2	2.50	0.47
1:D:940:ASN:HB3	1:D:949:GLU:OE2	2.15	0.47
1:E:493:PRO:HD2	1:E:517:ARG:O	2.15	0.47
1:E:849:GLY:HA3	1:E:873:GLN:HG3	1.97	0.47
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.97	0.47
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.96	0.47
1:F:457:THR:HG22	1:F:464:GLN:HA	1.97	0.47
1:F:1232:LEU:HD23	1:F:1232:LEU:HA	1.67	0.47
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.97	0.47
2:G:77:ALA:O	2:G:139:ALA:HB1	2.14	0.47
2:G:416:GLN:HE22	2:G:425:LYS:H	1.63	0.47
2:G:465:LEU:HB2	2:G:479:ARG:HG3	1.96	0.47
2:G:1194:ARG:NH2	2:G:1601:ASN:HA	2.30	0.47
2:G:1350:ILE:HD13	2:G:1610:MET:SD	2.55	0.47
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.45	0.47
2:H:465:LEU:HB2	2:H:479:ARG:CG	2.45	0.47
2:H:609:THR:CB	2:H:610:PRO:HD3	2.44	0.47
2:H:1404:VAL:HA	2:H:1412:MET:O	2.14	0.47
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.96	0.47
2:I:1175:MET:HE1	2:I:1234:ILE:HG21	1.97	0.47
2:I:1375:HIS:CE1	2:I:1610:MET:SD	3.07	0.47
2:I:1903:VAL:HG11	2:I:1943:LEU:HD21	1.96	0.47
2:J:501:TRP:CZ2	2:J:524:ILE:HG21	2.50	0.47
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.96	0.47
2:J:1204:VAL:HA	2:J:1218:SER:O	2.15	0.47
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.39	0.47
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.45	0.47
2:K:608:MET:H	2:K:612:THR:CB	2.26	0.47
2:K:821:GLU:CD	2:K:1083:ILE:HG13	2.35	0.47
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.95	0.47
2:K:929:MET:HE1	2:K:934:VAL:HA	1.96	0.47
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.15	0.47
2:L:300:THR:H	2:L:303:GLU:HB3	1.79	0.47
2:L:609:THR:CG2	2:L:633:GLY:HA3	2.44	0.47
2:L:821:GLU:CD	2:L:1083:ILE:HG13	2.34	0.47
2:L:2008:THR:HG22	2:L:2011:ARG:HE	1.80	0.47
1:A:9:LEU:HB2	2:G:2050:ILE:HD11	1.97	0.47
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.50	0.47
1:A:1172:ARG:HH11	1:A:1172:ARG:HG3	1.79	0.47
1:A:1218:VAL:HG22	1:A:1301:VAL:CG1	2.44	0.47
1:A:1702:ARG:HG2	1:A:1702:ARG:NH1	2.20	0.47
1:B:334:ALA:O	1:B:338:GLN:HG3	2.15	0.47
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.50	0.47
1:C:399:TYR:HH	1:C:692:THR:HG23	1.80	0.47
1:C:626:TRP:CD2	1:C:898:PHE:HD1	2.33	0.47
1:C:1303:LEU:HD23	1:C:1303:LEU:HA	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1402:THR:HG22	1:F:1696:PHE:HB3	1.96	0.47
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.49	0.47
1:D:536:SER:HB3	1:D:540:LYS:HB3	1.96	0.47
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.45	0.47
1:D:1306:GLY:O	1:D:1357:CYS:HB2	2.15	0.47
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.45	0.47
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.96	0.47
1:E:1172:ARG:HH11	1:E:1172:ARG:HG3	1.80	0.47
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.97	0.47
1:E:1307:PHE:CB	1:E:1357:CYS:HB3	2.44	0.47
1:E:1514:ILE:CD1	1:E:1545:LEU:HB3	2.44	0.47
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	1.97	0.47
1:F:413:MET:O	1:F:416:ASP:HB2	2.15	0.47
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.15	0.47
1:F:1484:GLU:O	1:F:1487:THR:HB	2.14	0.47
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.49	0.47
2:G:929:MET:CE	2:G:934:VAL:HA	2.45	0.47
2:G:1047:LEU:HD12	2:G:1047:LEU:H	1.80	0.47
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.98	0.47
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.50	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.45	0.47
2:H:912:LYS:HB3	2:H:1030:PHE:HA	1.97	0.47
2:H:1708:LEU:O	2:H:1708:LEU:HD22	2.15	0.47
2:I:289:ILE:HG12	2:I:493:MET:CE	2.43	0.47
2:I:520:GLY:C	2:I:522:SER:H	2.17	0.47
2:I:609:THR:CB	2:I:610:PRO:HD3	2.44	0.47
2:I:609:THR:HA	2:I:631:ALA:HB1	1.95	0.47
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.97	0.47
2:I:1266:HIS:CD2	2:I:1275:ARG:CZ	2.98	0.47
2:I:1813:MET:HG3	2:I:1814:GLU:N	2.30	0.47
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.45	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.59	0.47
2:J:870:THR:HG21	2:J:1064:THR:O	2.15	0.47
2:J:871:ARG:HB2	2:J:909:ASP:HB2	1.96	0.47
2:J:1200:ARG:H	2:J:1200:ARG:CD	2.13	0.47
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.67	0.47
2:K:1269:ALA:HB1	2:K:1271:TYR:CE1	2.50	0.47
2:K:1278:MET:HA	2:K:1281:ARG:HB2	1.97	0.47
2:K:1301:PHE:HB3	2:K:1364:ARG:HG3	1.97	0.47
2:L:571:ASP:OD1	2:L:573:VAL:HG23	2.15	0.47
2:L:608:MET:HA	4:L:2101:FMN:N5	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:929:MET:HE1	2:L:934:VAL:HA	1.97	0.47
2:L:1910:VAL:HG11	2:L:1973:ILE:HG21	1.97	0.47
1:A:383:TYR:O	1:A:387:ILE:HG12	2.15	0.47
1:A:534:GLN:HA	1:A:610:GLU:O	2.15	0.47
1:A:940:ASN:HB3	1:A:949:GLU:OE2	2.15	0.47
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.96	0.47
1:B:1052:ASP:O	1:B:1055:THR:O	2.32	0.47
1:C:34:VAL:HG21	2:I:2045:ALA:O	2.14	0.47
1:C:46:GLU:HB3	1:C:80:CYS:HA	1.98	0.47
1:C:889:VAL:O	1:C:893:GLN:HG3	2.15	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:D:334:ALA:O	1:D:338:GLN:HG3	2.15	0.47
1:D:445:LEU:O	1:D:448:MET:HB2	2.15	0.47
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.96	0.47
2:G:663:ILE:HD12	2:G:663:ILE:N	2.27	0.47
2:G:1342:PHE:HE2	2:G:1391:VAL:HB	1.79	0.47
2:H:846:THR:HG22	2:H:855:ILE:C	2.36	0.47
2:H:1602:LEU:HB3	2:H:1604:GLY:H	1.80	0.47
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.96	0.47
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.14	0.47
2:I:204:ILE:HG21	2:I:312:VAL:HG21	1.97	0.47
2:I:314:LEU:HG	2:I:318:ILE:CD1	2.45	0.47
2:I:717:LYS:HD2	4:I:2101:FMN:O2	2.16	0.47
2:I:788:THR:CG2	2:I:1094:HIS:CE1	2.98	0.47
2:J:1655:HIS:HE1	2:J:1657:GLY:O	1.98	0.47
2:K:48:LEU:HD13	2:K:101:VAL:HG11	1.95	0.47
2:K:460:ILE:CD1	2:K:487:ILE:HD11	2.44	0.47
2:K:749:GLY:HA3	4:K:2101:FMN:HM81	1.97	0.47
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.97	0.47
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.97	0.47
2:L:291:VAL:O	2:L:295:ILE:HB	2.14	0.47
2:L:594:MET:HB3	2:L:808:ASP:O	2.14	0.47
2:L:613:VAL:N	2:L:614:PRO:HD3	2.30	0.47
2:L:980:LEU:HD22	2:L:986:LEU:HD21	1.97	0.47
2:L:1265:TYR:HE1	2:L:1267:PRO:HG3	1.73	0.47
2:L:1351:VAL:HG23	2:L:1584:SER:HA	1.97	0.47
2:L:1472:TRP:CE2	2:L:1540:VAL:HG22	2.50	0.47
2:L:1656:VAL:HG22	2:L:1656:VAL:O	2.15	0.47
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.15	0.47
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.79	0.47
1:A:536:SER:HB3	1:A:540:LYS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.96	0.46
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.45	0.46
1:A:1011:ARG:HD2	1:A:1011:ARG:C	2.36	0.46
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.30	0.46
1:B:21:GLN:O	2:H:2006:HIS:HD2	1.98	0.46
1:B:574:ILE:H	1:B:574:ILE:HG12	1.60	0.46
1:B:1078:ILE:HG23	1:B:1352:MET:CE	2.45	0.46
1:C:484:PRO:HA	1:C:485:PRO:HD3	1.80	0.46
1:C:1698:ASN:HA	1:C:1699:PRO:HD3	1.83	0.46
1:D:358:PHE:C	1:D:358:PHE:CD2	2.89	0.46
1:D:1249:ILE:H	1:D:1249:ILE:HG13	1.32	0.46
1:D:1335:ARG:HH11	1:D:1339:GLU:HG2	1.79	0.46
1:E:13:LEU:HD11	2:K:2058:VAL:HG21	1.96	0.46
1:E:29:ILE:HG13	2:K:1920:TYR:O	2.15	0.46
1:E:553:ARG:NH2	1:E:567:ASN:HD21	2.13	0.46
1:E:631:LYS:O	1:E:635:ILE:HG22	2.15	0.46
1:E:846:TRP:HZ2	1:E:856:ASN:O	1.98	0.46
1:E:943:VAL:CG2	2:K:1539:PRO:HG3	2.45	0.46
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.08	0.46
1:F:1207:TYR:CE2	1:F:1682:LYS:HD2	2.50	0.46
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.45	0.46
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.46
2:G:608:MET:HA	4:G:2101:FMN:C5A	2.45	0.46
2:G:912:LYS:HB3	2:G:1030:PHE:HA	1.96	0.46
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.96	0.46
2:G:1171:TRP:CH2	2:G:1236:LEU:HB2	2.49	0.46
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.97	0.46
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.15	0.46
2:G:1887:ASN:OD1	2:G:1889:SER:HB2	2.14	0.46
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.16	0.46
2:H:57:PRO:HB2	2:H:65:GLN:HE22	1.79	0.46
2:H:381:SER:OG	2:H:392:THR:HG23	2.15	0.46
2:H:1009:ASN:HB2	2:H:1012:ASP:OD2	2.15	0.46
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.29	0.46
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.96	0.46
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.03	0.46
2:I:622:MET:O	2:I:656:ARG:NH1	2.48	0.46
2:I:1026:LYS:HG2	2:I:1027:PRO:HD2	1.98	0.46
2:I:1722:ALA:HB1	2:I:1812:LEU:HD21	1.97	0.46
2:J:57:PRO:HB2	2:J:65:GLN:HE22	1.80	0.46
2:J:196:PHE:CD2	2:J:196:PHE:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:357:THR:HG22	2:J:359:SER:H	1.80	0.46
2:J:1279:GLU:CD	2:J:1279:GLU:H	2.18	0.46
2:J:1443:GLU:HA	2:J:1443:GLU:OE1	2.15	0.46
2:K:391:VAL:HG12	2:K:398:LEU:HD21	1.97	0.46
2:K:746:GLY:O	2:K:843:TRP:NE1	2.48	0.46
2:K:1074:LYS:HG3	2:K:1075:TYR:CD1	2.49	0.46
2:K:1293:TRP:HE1	2:K:1586:ASP:HA	1.80	0.46
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.46
2:K:1335:PHE:CZ	2:K:1629:ILE:HD13	2.50	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:HD11	1.96	0.46
2:L:528:THR:HA	2:L:531:ASN:ND2	2.30	0.46
2:L:613:VAL:H	2:L:614:PRO:HD3	1.80	0.46
2:L:718:PRO:HG3	2:L:727:VAL:CG2	2.45	0.46
2:L:796:TRP:HH2	2:L:805:MET:HE1	1.78	0.46
2:L:1336:VAL:O	2:L:1336:VAL:HG12	2.15	0.46
2:L:1380:TYR:HD2	2:L:1429:VAL:HG22	1.80	0.46
2:L:1655:HIS:HE1	2:L:1657:GLY:O	1.98	0.46
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.78	0.46
1:A:50:SER:HB2	1:A:52:THR:HG23	1.97	0.46
1:A:661:GLY:O	1:A:667:ALA:HB2	2.15	0.46
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.45	0.46
1:B:28:TRP:HE1	1:B:32:GLN:NE2	2.13	0.46
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.97	0.46
1:B:347:LEU:HD12	1:E:340:LEU:HD12	1.96	0.46
1:B:382:ILE:H	1:B:382:ILE:HG13	1.59	0.46
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.44	0.46
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.46
1:D:844:ILE:HD12	1:D:844:ILE:N	2.31	0.46
1:D:889:VAL:O	1:D:893:GLN:HG3	2.15	0.46
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.96	0.46
1:E:519:PHE:O	1:E:523:VAL:HG23	2.14	0.46
1:E:673:LEU:HD21	1:E:884:MET:HE3	1.97	0.46
1:F:914:LEU:O	1:F:917:LYS:HB3	2.15	0.46
2:G:357:THR:HG22	2:G:359:SER:H	1.80	0.46
2:G:670:MET:CE	2:G:674:ILE:HD11	2.45	0.46
2:G:779:GLY:HA3	2:G:811:MET:CE	2.44	0.46
2:G:1050:SER:HA	2:G:1064:THR:HG21	1.97	0.46
2:G:1377:SER:HB3	2:G:1432:GLN:HB2	1.96	0.46
2:G:1420:LYS:HG2	2:G:1425:PRO:CA	2.43	0.46
2:H:709:LEU:HD23	2:H:709:LEU:N	2.26	0.46
2:H:718:PRO:HG3	2:H:727:VAL:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:173:PHE:CE2	2:I:516:PHE:HB2	2.50	0.46
2:I:207:LEU:HD22	2:I:309:LYS:HG3	1.95	0.46
2:I:746:GLY:O	2:I:843:TRP:NE1	2.47	0.46
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.96	0.46
2:I:1370:LEU:CA	2:I:1435:TYR:HE2	2.27	0.46
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.15	0.46
2:J:245:SER:HA	2:J:436:THR:OG1	2.15	0.46
2:J:357:THR:O	2:J:361:VAL:HG23	2.15	0.46
2:J:608:MET:HA	4:J:2101:FMN:N5	2.30	0.46
2:J:686:PRO:HB3	2:J:1187:PHE:CE1	2.51	0.46
2:J:708:THR:HB	2:J:709:LEU:HD23	1.97	0.46
2:J:821:GLU:CD	2:J:1083:ILE:HG13	2.35	0.46
2:J:1886:VAL:HG22	2:J:1995:THR:HG22	1.97	0.46
2:K:221:TYR:CD2	2:K:225:LEU:HD22	2.50	0.46
2:K:462:ALA:HB3	2:K:483:ASP:HA	1.97	0.46
2:K:1352:VAL:HG11	2:K:1395:LEU:HD12	1.97	0.46
2:K:1359:LYS:O	2:K:1362:PHE:HD1	1.98	0.46
2:K:1656:VAL:HG22	2:K:1656:VAL:O	2.15	0.46
2:K:1749:PHE:CD2	2:K:1758:ARG:HB3	2.50	0.46
2:L:465:LEU:HB2	2:L:479:ARG:CG	2.46	0.46
2:L:502:GLU:O	2:L:506:VAL:HG23	2.14	0.46
2:L:907:ASN:HD21	2:L:917:ARG:HE	1.62	0.46
2:L:1044:LYS:HE2	3:L:2102:NAP:H4B	1.97	0.46
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	2.16	0.46
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.35	0.46
2:L:2053:GLU:HA	2:L:2056:GLU:OE1	2.14	0.46
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.16	0.46
1:A:564:LEU:O	1:A:567:ASN:HB2	2.15	0.46
1:A:687:PHE:C	1:A:687:PHE:CD2	2.88	0.46
1:A:782:LYS:NZ	1:A:786:LYS:HD2	2.31	0.46
1:A:859:VAL:HG12	1:A:859:VAL:O	2.14	0.46
1:A:1457:GLU:H	1:A:1457:GLU:HG3	1.47	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.44	0.46
1:B:960:ARG:HH11	2:H:968:GLU:HB3	1.80	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.25	0.46
1:B:1079:ARG:HG2	1:B:1079:ARG:NH1	2.11	0.46
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.16	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.50	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.30	0.46
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1457:GLU:H	1:D:1457:GLU:HG3	1.51	0.46
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.51	0.46
1:E:740:LEU:HD12	1:E:781:ILE:HD13	1.98	0.46
1:E:746:PHE:CD1	1:E:800:PRO:HG3	2.50	0.46
1:E:1577:CYS:HB3	1:E:1620:PHE:CD2	2.50	0.46
1:F:940:ASN:HB3	1:F:949:GLU:OE2	2.16	0.46
1:F:1083:PRO:HD2	1:F:1084:GLU:OE2	2.16	0.46
2:G:291:VAL:O	2:G:295:ILE:HB	2.15	0.46
2:G:585:VAL:O	2:G:585:VAL:HG12	2.15	0.46
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.97	0.46
2:G:1722:ALA:HB1	2:G:1812:LEU:HD21	1.97	0.46
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.50	0.46
2:H:372:LEU:CD1	2:H:397:SER:HB2	2.46	0.46
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.28	0.46
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.50	0.46
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.97	0.46
2:I:1804:GLN:HB3	2:I:1861:PHE:HE1	1.81	0.46
2:I:1933:LEU:HB3	2:I:1987:VAL:CG1	2.46	0.46
2:J:48:LEU:HD11	2:J:101:VAL:HG11	1.96	0.46
2:J:785:SER:HB3	2:J:1090:ILE:HG23	1.98	0.46
2:J:1179:GLU:OE1	2:J:1179:GLU:N	2.45	0.46
2:J:1464:LEU:HD13	2:J:1468:ARG:HG3	1.97	0.46
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.30	0.46
2:J:1977:ARG:HD3	2:J:1978:LYS:HG3	1.97	0.46
2:K:827:GLN:O	2:K:830:GLN:HB3	2.16	0.46
2:K:1009:ASN:HB2	2:K:1012:ASP:OD2	2.16	0.46
2:K:1181:PHE:HE1	2:K:1191:PRO:HD2	1.74	0.46
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.96	0.46
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.42	0.46
2:L:48:LEU:HD13	2:L:101:VAL:HG11	1.95	0.46
2:L:601:PRO:HB2	2:L:626:TYR:CE2	2.50	0.46
2:L:756:ASP:CA	2:L:843:TRP:HH2	2.28	0.46
2:L:1104:ASP:OD1	2:L:1104:ASP:N	2.48	0.46
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.26	0.46
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.50	0.46
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.46	0.46
1:B:852:LEU:HD23	1:B:852:LEU:O	2.16	0.46
1:B:869:ARG:O	1:B:903:GLY:HA3	2.15	0.46
1:B:1017:TYR:N	1:B:1017:TYR:CD1	2.81	0.46
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.15	0.46
1:B:1075:HIS:HB3	1:B:1166:THR:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1393:VAL:N	1:B:1394:PRO:CD	2.79	0.46
1:B:1592:ALA:O	1:B:1593:ASP:C	2.54	0.46
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	2.30	0.46
1:C:1131:GLU:HG2	1:C:1138:TYR:CE2	2.50	0.46
1:D:42:GLU:H	2:J:1689:VAL:HB	1.79	0.46
1:D:383:TYR:O	1:D:387:ILE:HG12	2.15	0.46
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.42	0.46
1:D:1052:ASP:O	1:D:1055:THR:O	2.34	0.46
1:D:1703:VAL:HG22	1:D:1712:LYS:C	2.35	0.46
1:E:441:ASN:HB2	1:E:444:LEU:H	1.81	0.46
1:E:1672:GLY:O	1:E:1676:ASN:N	2.48	0.46
1:F:49:PRO:HG2	2:L:1810:LEU:HD21	1.97	0.46
1:F:1065:LYS:O	1:F:1069:GLU:HB2	2.16	0.46
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.46
1:F:1172:ARG:HH11	1:F:1172:ARG:HG3	1.80	0.46
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.48	0.46
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.16	0.46
1:F:1514:ILE:H	1:F:1514:ILE:HG13	1.35	0.46
2:G:44:GLN:HG3	2:G:101:VAL:CG2	2.46	0.46
2:G:1346:MET:CE	2:G:1617:ARG:NH2	2.79	0.46
2:H:317:TRP:O	2:H:321:ARG:HG2	2.15	0.46
2:H:708:THR:HB	2:H:709:LEU:HD23	1.96	0.46
2:H:871:ARG:HB2	2:H:909:ASP:HB2	1.97	0.46
2:H:1370:LEU:CD1	2:H:1373:LEU:HD13	2.44	0.46
2:H:1472:TRP:CE2	2:H:1540:VAL:HG22	2.51	0.46
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.15	0.46
2:I:1009:ASN:HB2	2:I:1012:ASP:OD2	2.16	0.46
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.16	0.46
2:I:1932:ASP:O	2:I:1936:LEU:HD23	2.14	0.46
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.45	0.46
2:J:129:ILE:HG21	2:J:132:LYS:HD2	1.97	0.46
2:J:167:VAL:C	2:J:168:LYS:HD2	2.36	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.13	0.46
2:J:907:ASN:OD1	2:J:913:VAL:HG12	2.16	0.46
2:J:1517:LEU:HD12	2:J:1521:GLU:HB2	1.96	0.46
2:J:1538:ASN:HB3	2:J:1541:ILE:CG2	2.44	0.46
2:J:2008:THR:HG22	2:J:2011:ARG:HE	1.79	0.46
2:K:26:LEU:HD23	2:K:49:LYS:HG3	1.98	0.46
2:K:211:LEU:HD13	2:K:313:GLU:HG3	1.98	0.46
2:K:251:PRO:CG	2:K:316:PHE:HA	2.44	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.51	0.46
2:K:907:ASN:HA	2:K:913:VAL:HG13	1.98	0.46
2:K:1002:GLU:C	2:K:1004:SER:H	2.18	0.46
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.96	0.46
2:L:356:LEU:HD22	2:L:356:LEU:HA	1.77	0.46
2:L:580:LEU:HG	2:L:1098:LEU:HD23	1.97	0.46
2:L:608:MET:HB3	2:L:608:MET:HE2	1.50	0.46
2:L:779:GLY:HA3	2:L:811:MET:CE	2.46	0.46
2:L:788:THR:CG2	2:L:1094:HIS:CE1	2.99	0.46
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.45	0.46
2:L:1331:THR:HG22	2:L:1331:THR:O	2.15	0.46
1:B:718:SER:HA	1:E:378:GLU:OE1	2.16	0.46
1:C:457:THR:HG22	1:C:464:GLN:HA	1.98	0.46
1:C:1484:GLU:O	1:C:1487:THR:HB	2.16	0.46
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.44	0.46
1:D:21:GLN:HE21	1:D:21:GLN:HB3	1.58	0.46
1:D:441:ASN:HB2	1:D:444:LEU:H	1.80	0.46
1:D:914:LEU:HD11	1:D:918:LEU:CD1	2.45	0.46
1:D:1102:ILE:HD11	1:D:1148:LEU:HG	1.96	0.46
1:D:1584:GLY:HA2	1:D:1617:ILE:CD1	2.45	0.46
1:D:1702:ARG:HG2	1:D:1702:ARG:NH1	2.15	0.46
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.46
1:E:684:THR:CG2	1:E:686:ARG:H	2.23	0.46
1:E:1102:ILE:HD11	1:E:1148:LEU:HG	1.98	0.46
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.46	0.46
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.98	0.46
1:E:1556:ILE:CD1	1:E:1587:PRO:HD2	2.44	0.46
1:E:1565:PRO:O	1:E:1566:LYS:C	2.52	0.46
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.30	0.46
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.46
2:G:1746:THR:CB	2:G:1792:THR:HG23	2.39	0.46
2:H:270:ARG:HG3	2:H:274:GLU:CD	2.36	0.46
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.50	0.46
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.31	0.46
2:H:1411:LYS:HB2	2:H:1439:TYR:CD1	2.49	0.46
2:H:2053:GLU:HA	2:H:2056:GLU:OE1	2.15	0.46
2:I:1106:LYS:HD3	2:I:1106:LYS:HA	1.77	0.46
2:I:1701:GLU:H	2:I:1704:MET:HE3	1.79	0.46
2:I:1891:ILE:HD12	2:I:1895:PHE:CE2	2.51	0.46
2:J:174:GLY:HA2	2:J:524:ILE:CG1	2.45	0.46
2:J:352:SER:HB2	2:J:433:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:875:PHE:HE2	2:J:906:LEU:HD23	1.81	0.46
2:J:912:LYS:HB3	2:J:1030:PHE:HA	1.98	0.46
2:J:1351:VAL:CG1	2:J:1352:VAL:N	2.79	0.46
2:K:867:LYS:HB2	2:K:873:VAL:HG11	1.98	0.46
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.95	0.46
2:K:1538:ASN:HB3	2:K:1541:ILE:CG2	2.45	0.46
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.95	0.46
2:L:489:GLU:O	2:L:492:ARG:HG2	2.15	0.46
2:L:606:ALA:HB2	2:L:811:MET:CG	2.45	0.46
2:L:785:SER:HB3	2:L:1090:ILE:HG23	1.97	0.46
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.45	0.46
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.97	0.46
1:A:1078:ILE:HA	1:A:1162:GLY:HA2	1.97	0.46
1:A:1343:PRO:O	1:A:1531:ASP:OD2	2.34	0.46
1:A:1402:THR:HG22	1:E:1696:PHE:HB3	1.97	0.46
1:A:1494:TRP:CG	1:A:1505:GLY:HA3	2.51	0.46
1:B:401:SER:O	1:B:405:TRP:CD1	2.69	0.46
1:B:472:GLN:HA	1:B:472:GLN:HE21	1.81	0.46
1:B:1296:GLN:HE21	1:D:1296:GLN:HG2	1.80	0.46
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.97	0.46
1:C:411:LEU:CD2	1:C:1612:ILE:HD13	2.45	0.46
1:C:987:MET:O	1:C:1490:GLY:HA3	2.15	0.46
1:C:1031:MET:HB3	1:C:1031:MET:HE2	1.78	0.46
1:D:687:PHE:C	1:D:687:PHE:CD2	2.89	0.46
1:E:79:LEU:HD12	1:E:88:ILE:HD13	1.98	0.46
1:E:869:ARG:HE	1:E:869:ARG:HB2	1.62	0.46
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.98	0.46
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.46
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.15	0.46
1:F:859:VAL:HG12	1:F:859:VAL:O	2.14	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:314:LEU:HG	2:G:318:ILE:CD1	2.44	0.46
2:G:352:SER:HB2	2:G:433:LEU:HD11	1.97	0.46
2:G:440:HIS:NE2	2:G:499:VAL:HG23	2.31	0.46
2:G:827:GLN:H	2:G:827:GLN:CD	2.18	0.46
2:G:1009:ASN:HD22	2:G:1009:ASN:HA	1.53	0.46
2:G:1725:HIS:CD2	2:G:1854:GLU:CB	2.98	0.46
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.77	0.46
2:H:609:THR:HA	2:H:631:ALA:HB1	1.98	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.51	0.46
2:H:618:VAL:HG11	2:H:648:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.30	0.46
2:H:749:GLY:HA3	4:H:2101:FMN:HM81	1.98	0.46
2:H:1555:VAL:O	2:H:1555:VAL:HG12	2.15	0.46
2:I:154:TYR:CD1	2:I:561:ARG:NH2	2.84	0.46
2:I:870:THR:HG21	2:I:1064:THR:O	2.16	0.46
2:I:1234:ILE:HG22	2:I:1242:ILE:HG22	1.96	0.46
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.15	0.46
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.97	0.46
2:J:719:GLY:O	2:J:755:GLU:HG3	2.16	0.46
2:J:797:SER:O	2:J:802:TYR:HB2	2.16	0.46
2:J:827:GLN:H	2:J:827:GLN:CD	2.18	0.46
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.31	0.46
2:J:1742:PRO:O	2:J:1799:LEU:HD13	2.15	0.46
2:J:2053:GLU:HA	2:J:2056:GLU:OE1	2.16	0.46
2:K:534:GLY:O	2:K:571:ASP:HA	2.15	0.46
2:K:1456:LEU:HD11	2:K:1543:TYR:CE2	2.49	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:CD1	2.46	0.46
2:L:1002:GLU:C	2:L:1004:SER:H	2.18	0.46
2:L:2009:PHE:C	2:L:2009:PHE:CD2	2.88	0.46
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.97	0.46
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.69	0.46
1:A:1592:ALA:O	1:A:1593:ASP:C	2.54	0.46
1:B:46:GLU:HB3	1:B:80:CYS:HA	1.98	0.46
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.98	0.46
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.46	0.46
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.55	0.46
1:B:1371:MET:O	1:B:1661:ARG:NH1	2.47	0.46
1:C:12:THR:CG2	2:I:2066:LYS:HD3	2.45	0.46
1:C:440:SER:HB3	1:C:481:LEU:CD2	2.42	0.46
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.36	0.46
1:D:492:ILE:H	1:D:492:ILE:HG13	1.45	0.46
1:D:1208:GLU:OE2	1:D:1661:ARG:NH2	2.47	0.46
1:D:1484:GLU:O	1:D:1487:THR:HB	2.16	0.46
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.15	0.46
1:E:8:GLU:HG2	2:K:2027:LYS:HD3	1.97	0.46
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.46
1:E:687:PHE:C	1:E:687:PHE:CD2	2.89	0.46
1:E:1142:LEU:N	1:E:1142:LEU:HD12	2.31	0.46
1:E:1546:GLY:O	1:E:1547:ARG:C	2.54	0.46
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.97	0.46
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1313:GLU:H	1:F:1313:GLU:HG2	1.47	0.46
2:G:609:THR:HA	2:G:631:ALA:HB1	1.98	0.46
2:G:718:PRO:HG3	2:G:727:VAL:CG2	2.46	0.46
2:G:1232:VAL:HA	2:G:1245:THR:O	2.15	0.46
2:G:1236:LEU:HD12	2:G:1241:GLU:O	2.16	0.46
2:H:208:LEU:HD12	2:H:227:ILE:CD1	2.43	0.46
2:H:353:ILE:O	2:H:353:ILE:HG22	2.16	0.46
2:H:1179:GLU:OE1	2:H:1179:GLU:N	2.49	0.46
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.97	0.46
2:I:391:VAL:HG12	2:I:398:LEU:HD21	1.96	0.46
2:I:616:ASP:OD2	2:I:823:HIS:NE2	2.48	0.46
2:I:1655:HIS:HE1	2:I:1657:GLY:O	1.99	0.46
2:I:1920:TYR:HD2	2:I:1927:TYR:HE2	1.62	0.46
2:J:250:PHE:O	2:J:315:LEU:HD23	2.16	0.46
2:J:747:ARG:NH1	2:J:780:SER:O	2.48	0.46
2:J:1181:PHE:HE1	2:J:1191:PRO:HD2	1.79	0.46
2:J:1231:THR:CG2	2:J:1595:VAL:HG11	2.46	0.46
2:J:1491:ARG:O	2:J:1492:LEU:HD23	2.15	0.46
2:J:1635:TYR:CE2	2:J:1637:VAL:HG23	2.51	0.46
2:K:685:VAL:HA	2:K:686:PRO:HD3	1.63	0.46
2:K:690:LEU:HB2	2:K:711:ILE:HG21	1.97	0.46
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	1.97	0.46
2:K:1325:VAL:HG13	2:K:1330:ASN:O	2.15	0.46
2:K:1587:TYR:O	2:K:1588:ASN:C	2.53	0.46
2:K:1602:LEU:HB3	2:K:1604:GLY:H	1.81	0.46
2:L:490:LEU:HD23	2:L:493:MET:SD	2.56	0.46
2:L:609:THR:HA	2:L:631:ALA:HB1	1.98	0.46
2:L:737:PHE:O	2:L:773:ASN:HB3	2.15	0.46
2:L:1106:LYS:HA	2:L:1106:LYS:HD3	1.76	0.46
2:L:1299:VAL:HG13	2:L:1301:PHE:CE1	2.51	0.46
2:L:1404:VAL:HA	2:L:1412:MET:O	2.15	0.46
2:L:1914:LEU:O	2:L:1931:GLY:HA3	2.16	0.46
2:L:1966:ARG:HG3	2:L:1967:ALA:N	2.30	0.46
1:A:24:MET:HB3	2:G:2043:VAL:HG12	1.97	0.46
1:A:902:ASN:C	1:A:904:GLY:H	2.19	0.46
1:B:17:LEU:HD23	2:H:2043:VAL:CG2	2.45	0.46
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.51	0.46
1:B:1078:ILE:HA	1:B:1162:GLY:HA2	1.98	0.46
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.97	0.46
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.96	0.46
1:C:1157:ASP:O	1:C:1327:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1218:VAL:O	1:C:1271:GLY:HA3	2.16	0.46
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.42	0.46
1:D:519:PHE:O	1:D:523:VAL:HG23	2.16	0.46
1:D:849:GLY:HA3	1:D:873:GLN:HG3	1.97	0.46
1:D:984:LEU:HD21	1:D:1510:TRP:O	2.16	0.46
1:D:1172:ARG:HH11	1:D:1172:ARG:HG3	1.80	0.46
1:D:1579:GLN:O	1:D:1583:THR:HG23	2.16	0.46
1:E:71:ALA:HB3	2:J:371:HIS:HB2	1.98	0.46
1:E:661:GLY:O	1:E:667:ALA:HB2	2.16	0.46
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.97	0.46
1:E:1522:PHE:HB2	1:E:1557:PHE:CD1	2.51	0.46
1:E:1584:GLY:HA2	1:E:1617:ILE:HD12	1.98	0.46
1:F:879:ASN:HB3	1:F:901:LEU:HD13	1.98	0.46
2:G:511:THR:C	2:G:512:HIS:CD2	2.89	0.46
2:G:534:GLY:O	2:G:571:ASP:HA	2.15	0.46
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.16	0.46
2:G:2052:LYS:H	2:G:2052:LYS:HG2	1.42	0.46
2:G:2053:GLU:HA	2:G:2056:GLU:OE1	2.16	0.46
2:H:358:ARG:HB2	2:H:389:PHE:CE2	2.51	0.46
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.75	0.46
2:H:1019:LEU:HA	2:H:1022:ARG:HD2	1.96	0.46
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.16	0.46
2:H:1643:VAL:CG1	2:H:1649:ILE:HD11	2.46	0.46
2:I:26:LEU:HD23	2:I:49:LYS:HG3	1.97	0.46
2:I:460:ILE:CD1	2:I:487:ILE:HD11	2.45	0.46
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.16	0.46
2:I:1157:VAL:HG22	2:I:1198:PRO:HD2	1.98	0.46
2:I:1734:ILE:O	2:I:1738:VAL:HG23	2.15	0.46
2:J:751:HIS:HB2	3:J:2102:NAP:N7N	2.30	0.46
2:J:1359:LYS:O	2:J:1362:PHE:HD1	1.98	0.46
2:J:1483:LEU:H	2:J:1483:LEU:HG	1.11	0.46
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.15	0.46
2:J:1985:GLN:C	2:J:1987:VAL:N	2.67	0.46
2:K:596:ARG:HD3	2:K:1119:ARG:HG3	1.98	0.46
2:K:1350:ILE:HD13	2:K:1610:MET:SD	2.56	0.46
2:K:1807:GLN:HB3	2:K:1860:VAL:CG1	2.46	0.46
2:K:1903:VAL:HG11	2:K:1943:LEU:HD21	1.98	0.46
2:L:865:ILE:HG22	2:L:867:LYS:HG3	1.98	0.46
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.35	0.46
2:L:1180:VAL:CG1	2:L:1188:GLN:H	2.28	0.46
2:L:1553:GLN:HB3	2:L:1554:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1977:ARG:CD	2:L:1978:LYS:HG3	2.46	0.46
1:A:457:THR:HG22	1:A:464:GLN:HA	1.97	0.46
1:A:498:THR:HG21	1:A:858:LEU:O	2.16	0.46
1:A:1160:VAL:HG11	1:A:1337:PRO:HB3	1.97	0.46
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.71	0.46
1:B:1131:GLU:HG2	1:B:1138:TYR:CE2	2.50	0.46
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.80	0.46
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.16	0.46
1:C:450:TYR:C	1:C:450:TYR:CD2	2.89	0.46
1:C:502:ALA:O	1:C:929:ARG:HD3	2.15	0.46
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	1.98	0.46
1:D:1674:ILE:HG22	1:D:1675:ASN:OD1	2.16	0.46
1:E:401:SER:O	1:E:405:TRP:CD1	2.69	0.46
1:E:1078:ILE:HA	1:E:1162:GLY:HA2	1.98	0.46
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.15	0.46
1:E:1187:THR:OG1	1:E:1258:MET:HG3	2.16	0.46
1:F:746:PHE:CG	3:F:1901:NAP:H4D	2.51	0.46
1:F:1142:LEU:HD12	1:F:1142:LEU:H	1.79	0.46
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.78	0.46
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.46	0.46
2:G:726:GLN:O	2:G:730:ILE:HG12	2.15	0.46
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.16	0.46
2:H:460:ILE:CD1	2:H:487:ILE:HD11	2.46	0.46
2:H:655:GLY:HA3	2:H:1272:ALA:HB2	1.98	0.46
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.69	0.46
2:H:1047:LEU:H	2:H:1047:LEU:CD1	2.28	0.46
2:H:1104:ASP:N	2:H:1104:ASP:OD1	2.49	0.46
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.98	0.46
2:H:1311:GLY:HA3	2:H:1397:THR:HB	1.98	0.46
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.98	0.46
2:I:382:LEU:HG	2:I:390:VAL:HB	1.98	0.46
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.45	0.46
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.15	0.46
2:I:1555:VAL:O	2:I:1555:VAL:HG12	2.14	0.46
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.27	0.46
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.46	0.46
2:J:52:PHE:HB2	2:J:82:PHE:CE2	2.50	0.46
2:J:208:LEU:HD12	2:J:227:ILE:CD1	2.40	0.46
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.45	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:606:ALA:HB2	2:J:811:MET:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1104:ASP:N	2:J:1104:ASP:OD1	2.48	0.46
2:J:1305:LEU:H	2:J:1305:LEU:CD1	2.26	0.46
2:J:1344:ALA:N	2:J:1389:LEU:O	2.41	0.46
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.31	0.46
2:J:1587:TYR:O	2:J:1588:ASN:C	2.54	0.46
2:K:1741:ASN:ND2	2:K:1798:GLY:HA3	2.31	0.46
2:K:2009:PHE:C	2:K:2009:PHE:CD2	2.89	0.46
2:L:726:GLN:O	2:L:730:ILE:HG12	2.16	0.46
2:L:827:GLN:H	2:L:827:GLN:CD	2.19	0.46
2:L:950:TRP:CE2	2:L:956:LYS:HG3	2.51	0.46
2:L:1175:MET:HE1	2:L:1234:ILE:HG21	1.97	0.46
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.84	0.46
2:L:1342:PHE:HE2	2:L:1391:VAL:HB	1.81	0.46
2:L:1555:VAL:HG21	2:L:1824:LYS:HA	1.97	0.46
2:L:1644:LEU:HB3	2:L:1645:PRO:CD	2.45	0.46
2:L:1948:MET:HG2	2:L:1993:PHE:CZ	2.51	0.46
1:A:540:LYS:HG3	1:A:608:LYS:N	2.31	0.46
1:A:544:ASP:O	1:A:548:VAL:HG23	2.15	0.46
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.16	0.46
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.98	0.46
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.49	0.46
1:B:662:ALA:HA	1:B:694:TYR:CZ	2.50	0.46
1:C:673:LEU:HD21	1:C:884:MET:CE	2.46	0.46
1:C:687:PHE:C	1:C:687:PHE:HD2	2.19	0.46
1:C:965:TYR:CE1	1:C:1669:PHE:CD1	3.04	0.46
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.50	0.46
1:C:1691:ILE:HG22	1:C:1695:VAL:HG23	1.97	0.46
1:D:746:PHE:CD2	3:D:1901:NAP:H4D	2.51	0.46
1:D:852:LEU:O	1:D:852:LEU:HD23	2.16	0.46
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.81	0.46
1:F:661:GLY:O	1:F:667:ALA:HB2	2.15	0.46
1:F:916:THR:HA	1:F:919:ARG:HB2	1.98	0.46
1:F:1078:ILE:HA	1:F:1162:GLY:HA2	1.97	0.46
2:G:520:GLY:C	2:G:522:SER:H	2.19	0.46
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.51	0.46
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.51	0.46
2:G:1194:ARG:NH2	2:G:1601:ASN:CG	2.70	0.46
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.98	0.46
2:G:1473:PHE:HE1	2:G:1513:VAL:HG21	1.81	0.46
2:G:1587:TYR:O	2:G:1588:ASN:C	2.55	0.46
2:G:1738:VAL:HA	2:G:1800:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:152:LYS:HA	2:H:153:PRO:HD3	1.81	0.46
2:H:545:ILE:HG22	2:H:555:LYS:HD3	1.98	0.46
2:H:676:LEU:C	2:H:676:LEU:HD13	2.36	0.46
2:H:1142:ILE:HG13	2:H:1209:PRO:HG2	1.97	0.46
2:H:1175:MET:O	2:H:1192:LEU:HD12	2.16	0.46
2:I:200:LEU:HD23	2:I:200:LEU:H	1.81	0.46
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.76	0.46
2:I:756:ASP:CA	2:I:843:TRP:HH2	2.28	0.46
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.17	0.46
2:I:1948:MET:HG2	2:I:1993:PHE:CZ	2.50	0.46
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.50	0.46
2:J:460:ILE:CD1	2:J:487:ILE:HD11	2.45	0.46
2:J:611:THR:HG21	2:J:817:MET:CE	2.46	0.46
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.46	0.46
2:J:791:TYR:CD2	2:J:796:TRP:CG	3.03	0.46
2:J:929:MET:CE	2:J:934:VAL:HA	2.46	0.46
2:J:1248:GLU:OE2	2:J:1250:ARG:NE	2.45	0.46
2:K:196:PHE:N	2:K:196:PHE:CD2	2.84	0.46
2:K:207:LEU:HD22	2:K:309:LYS:HG3	1.98	0.46
2:K:870:THR:HG21	2:K:1064:THR:O	2.16	0.46
2:K:932:ALA:O	2:K:935:VAL:HG13	2.16	0.46
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.46	0.46
2:K:1872:GLU:HA	2:K:1872:GLU:OE1	2.13	0.46
2:L:141:TYR:OH	2:L:267:THR:HG23	2.16	0.46
2:L:196:PHE:HD2	2:L:196:PHE:N	2.14	0.46
2:L:200:LEU:HD23	2:L:200:LEU:H	1.80	0.46
2:L:613:VAL:HG13	2:L:614:PRO:CD	2.46	0.46
2:L:1734:ILE:O	2:L:1738:VAL:HG23	2.15	0.46
2:L:1946:LEU:HD22	2:L:1951:ILE:HG12	1.97	0.46
1:A:20:TYR:CE1	2:G:2018:ARG:NH2	2.84	0.45
1:A:720:GLN:HG3	1:F:378:GLU:OE2	2.15	0.45
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.51	0.45
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.52	0.45
1:B:450:TYR:C	1:B:450:TYR:CD2	2.90	0.45
1:B:457:THR:HG22	1:B:464:GLN:HA	1.97	0.45
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.97	0.45
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.46	0.45
1:B:1083:PRO:HD2	1:B:1084:GLU:OE2	2.16	0.45
1:C:375:TRP:CD2	1:D:375:TRP:HB3	2.51	0.45
1:C:493:PRO:HD2	1:C:517:ARG:O	2.16	0.45
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1160:VAL:HG11	1:C:1337:PRO:HB3	1.98	0.45
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.46	0.45
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.77	0.45
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.37	0.45
1:E:60:THR:HG23	2:K:1922:VAL:HG13	1.99	0.45
1:E:1542:LEU:HD22	1:E:1547:ARG:HD3	1.97	0.45
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.51	0.45
1:F:612:ILE:HG22	1:F:628:TYR:CD2	2.52	0.45
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.59	0.45
1:F:1592:ALA:O	1:F:1593:ASP:C	2.54	0.45
2:G:48:LEU:HD11	2:G:101:VAL:HG11	1.97	0.45
2:G:173:PHE:CE2	2:G:516:PHE:HB2	2.51	0.45
2:G:459:LYS:HA	2:G:485:ASP:CG	2.36	0.45
2:G:870:THR:HG21	2:G:1064:THR:O	2.16	0.45
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.52	0.45
2:H:48:LEU:HD11	2:H:101:VAL:HG11	1.97	0.45
2:H:719:GLY:O	2:H:755:GLU:HG3	2.16	0.45
2:H:791:TYR:CD2	2:H:796:TRP:CG	3.04	0.45
2:H:1551:ILE:HG22	2:H:1552:GLU:N	2.30	0.45
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.46	0.45
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.46	0.45
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.45
2:I:1047:LEU:N	2:I:1047:LEU:HD12	2.30	0.45
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.50	0.45
2:I:1350:ILE:HD13	2:I:1610:MET:SD	2.56	0.45
2:J:743:TRP:CD1	2:J:761:ILE:HD11	2.51	0.45
2:J:856:THR:HG23	2:J:866:HIS:NE2	2.31	0.45
2:J:1142:ILE:HG13	2:J:1209:PRO:HG2	1.98	0.45
2:K:76:VAL:HG11	2:K:109:PHE:HD1	1.81	0.45
2:K:182:TYR:CD1	2:K:183:PHE:N	2.84	0.45
2:K:789:TYR:O	2:K:792:LEU:HB3	2.16	0.45
2:K:1346:MET:HG3	2:K:1380:TYR:CD1	2.51	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.43	0.45
2:L:155:ASP:OD1	2:L:155:ASP:N	2.49	0.45
2:L:173:PHE:CE2	2:L:516:PHE:HB2	2.51	0.45
2:L:791:TYR:CD2	2:L:796:TRP:CG	3.04	0.45
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.51	0.45
1:A:846:TRP:HZ2	1:A:856:ASN:O	1.99	0.45
1:A:869:ARG:HE	1:A:869:ARG:HB2	1.58	0.45
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.44	0.45
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1011:ARG:HD2	1:A:1011:ARG:O	2.16	0.45
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.83	0.45
1:B:565:GLN:O	1:B:565:GLN:HG2	2.15	0.45
1:B:876:MET:O	1:B:876:MET:HE3	2.16	0.45
1:B:1004:PRO:HD3	1:B:1572:TRP:HH2	1.80	0.45
1:B:1495:ARG:O	1:B:1496:ARG:HB3	2.15	0.45
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.51	0.45
1:C:746:PHE:CD1	1:C:800:PRO:HG3	2.51	0.45
1:C:914:LEU:CD1	1:C:918:LEU:HD12	2.47	0.45
1:C:1097:LEU:HD12	1:F:1241:LEU:HD23	1.98	0.45
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.45
1:C:1338:GLY:C	1:C:1340:MET:H	2.19	0.45
1:C:1414:PRO:HG2	1:F:1473:HIS:NE2	2.31	0.45
1:D:1338:GLY:C	1:D:1340:MET:H	2.19	0.45
1:E:17:LEU:HD23	2:K:2043:VAL:CG2	2.46	0.45
1:E:974:ASP:O	1:E:979:PRO:HD3	2.16	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.37	0.45
1:F:740:LEU:HD12	1:F:781:ILE:HD13	1.98	0.45
2:G:1031:VAL:HA	2:G:1032:PRO:HD3	1.64	0.45
2:G:1404:VAL:O	2:G:1445:THR:HA	2.16	0.45
2:G:1602:LEU:HB3	2:G:1604:GLY:H	1.81	0.45
2:H:117:ASN:CA	2:H:561:ARG:HG3	2.34	0.45
2:H:1344:ALA:N	2:H:1389:LEU:O	2.42	0.45
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	2.16	0.45
2:H:1948:MET:HG2	2:H:1993:PHE:CZ	2.52	0.45
2:H:1961:SER:O	2:H:1965:VAL:HG22	2.16	0.45
2:H:1969:LEU:HA	2:H:1972:ILE:HD12	1.99	0.45
2:H:2009:PHE:O	2:H:2009:PHE:HD2	1.99	0.45
4:H:2101:FMN:N1	4:H:2101:FMN:O2'	2.44	0.45
2:I:186:LEU:CG	2:I:256:VAL:HG22	2.45	0.45
2:I:613:VAL:HG13	2:I:614:PRO:CD	2.47	0.45
2:I:685:VAL:HG23	2:I:1186:ARG:NH1	2.31	0.45
2:I:854:VAL:HA	2:I:867:LYS:O	2.16	0.45
2:I:1981:GLU:O	2:I:1984:PRO:HG3	2.16	0.45
2:J:113:PHE:N	2:J:113:PHE:CD1	2.84	0.45
2:J:123:ALA:O	2:J:126:VAL:HG23	2.17	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.28	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.45	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.74	0.45
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.46	0.45
2:J:1969:LEU:HA	2:J:1972:ILE:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.15	0.45
2:K:76:VAL:O	2:K:80:ILE:HG13	2.16	0.45
2:K:129:ILE:CG2	2:K:132:LYS:HD2	2.46	0.45
2:K:265:CYS:SG	2:K:275:LEU:HB2	2.57	0.45
2:K:290:VAL:HG11	2:K:315:LEU:CD1	2.46	0.45
2:K:350:MET:HG3	2:K:435:ILE:CB	2.45	0.45
2:K:394:PRO:HD2	2:K:397:SER:OG	2.16	0.45
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.16	0.45
2:K:894:GLU:CD	2:K:897:LYS:HD3	2.35	0.45
2:K:1769:VAL:HG13	2:K:1774:SER:O	2.15	0.45
2:L:57:PRO:HB2	2:L:65:GLN:HE22	1.81	0.45
2:L:223:LYS:HB3	2:L:242:TYR:CZ	2.51	0.45
2:L:708:THR:HB	2:L:709:LEU:HD23	1.97	0.45
2:L:907:ASN:HA	2:L:913:VAL:HG13	1.97	0.45
2:L:1410:GLY:HA2	2:L:1437:GLY:H	1.82	0.45
2:L:1977:ARG:HD3	2:L:1978:LYS:HG3	1.98	0.45
1:B:626:TRP:CE3	1:B:898:PHE:HB2	2.51	0.45
1:C:1169:ASP:OD2	1:C:1171:ARG:HB2	2.17	0.45
1:C:1183:VAL:HG11	1:C:1187:THR:CG2	2.46	0.45
1:C:1363:MET:HE2	1:C:1363:MET:HB2	1.79	0.45
1:D:23:ALA:HA	2:J:2007:SER:O	2.17	0.45
1:D:493:PRO:HD2	1:D:517:ARG:O	2.16	0.45
1:D:661:GLY:O	1:D:667:ALA:HB2	2.16	0.45
1:D:667:ALA:O	1:D:671:GLN:HG3	2.15	0.45
1:D:999:LEU:HD23	1:D:999:LEU:HA	1.75	0.45
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.55	0.45
1:E:1011:ARG:NH1	1:E:1012:TRP:HA	2.32	0.45
2:G:76:VAL:HG11	2:G:109:PHE:CD1	2.50	0.45
2:G:202:THR:HA	2:G:228:LEU:HD11	1.98	0.45
2:G:578:PRO:HG3	2:G:792:LEU:O	2.16	0.45
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.37	0.45
2:G:1180:VAL:CG1	2:G:1188:GLN:H	2.30	0.45
2:H:204:ILE:CG2	2:H:312:VAL:HG11	2.45	0.45
2:H:737:PHE:O	2:H:773:ASN:HB3	2.16	0.45
2:H:747:ARG:HH11	2:H:780:SER:CB	2.25	0.45
2:H:929:MET:CE	2:H:934:VAL:HA	2.46	0.45
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.72	0.45
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.31	0.45
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.46	0.45
2:H:1977:ARG:HD3	2:H:1978:LYS:HG3	1.98	0.45
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:821:GLU:CD	2:I:1083:ILE:HG13	2.37	0.45
2:I:1709:TYR:HE2	2:I:1716:LYS:HE2	1.81	0.45
2:J:846:THR:HG22	2:J:855:ILE:C	2.36	0.45
2:J:912:LYS:HG2	2:J:1029:PRO:C	2.37	0.45
2:J:1311:GLY:HA3	2:J:1397:THR:HB	1.97	0.45
2:J:1656:VAL:O	2:J:1656:VAL:HG22	2.17	0.45
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.47	0.45
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.46	0.45
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.52	0.45
2:K:459:LYS:O	2:K:461:PRO:HD3	2.16	0.45
2:K:785:SER:HB3	2:K:1090:ILE:HG23	1.98	0.45
2:K:865:ILE:HG22	2:K:867:LYS:HG3	1.98	0.45
2:K:929:MET:CE	2:K:934:VAL:HA	2.46	0.45
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.46	0.45
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.45
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.46	0.45
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.17	0.45
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.30	0.45
2:L:2009:PHE:C	2:L:2009:PHE:HD2	2.19	0.45
1:A:46:GLU:HB3	1:A:80:CYS:HA	1.99	0.45
1:A:907:PHE:CE1	1:F:579:MET:HE1	2.51	0.45
1:B:759:ILE:HD12	1:B:759:ILE:N	2.31	0.45
1:C:414:TYR:CE2	1:C:418:ILE:CD1	2.99	0.45
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.46	0.45
1:C:881:LEU:HA	1:C:884:MET:CG	2.32	0.45
1:C:914:LEU:HD11	1:C:918:LEU:CD1	2.46	0.45
1:C:1084:GLU:H	1:C:1084:GLU:CD	2.19	0.45
1:D:1708:ASN:HD21	1:D:1712:LYS:NZ	2.15	0.45
1:E:472:GLN:HA	1:E:472:GLN:HE21	1.81	0.45
1:E:613:PRO:C	1:E:615:LEU:N	2.69	0.45
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.81	0.45
1:E:853:MET:HG2	1:E:856:ASN:ND2	2.29	0.45
1:E:893:GLN:OE1	2:H:1751:GLY:HA2	2.16	0.45
1:F:88:ILE:HG21	2:L:1821:MET:HE2	1.98	0.45
1:F:334:ALA:O	1:F:338:GLN:HG3	2.16	0.45
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.74	0.45
2:G:76:VAL:O	2:G:80:ILE:HG13	2.16	0.45
2:G:204:ILE:HG21	2:G:312:VAL:HG21	1.98	0.45
2:G:676:LEU:C	2:G:676:LEU:HD13	2.37	0.45
2:G:747:ARG:NH1	2:G:780:SER:O	2.49	0.45
2:G:883:ILE:HG22	2:G:884:PHE:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1644:LEU:HB3	2:G:1645:PRO:CD	2.46	0.45
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.99	0.45
2:H:44:GLN:HG3	2:H:101:VAL:CG2	2.46	0.45
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.52	0.45
2:H:685:VAL:HG13	2:H:686:PRO:HD2	1.98	0.45
2:H:882:LYS:HD3	2:H:898:ARG:CZ	2.47	0.45
2:H:894:GLU:CD	2:H:897:LYS:HD3	2.36	0.45
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.36	0.45
2:I:617:PHE:HE1	2:I:819:ALA:HB3	1.82	0.45
2:I:699:ILE:H	2:I:699:ILE:CD1	2.26	0.45
2:I:846:THR:HG22	2:I:855:ILE:C	2.37	0.45
2:I:2021:LEU:HD22	2:I:2025:ILE:HD11	1.98	0.45
2:J:204:ILE:CG2	2:J:312:VAL:HG11	2.46	0.45
2:J:270:ARG:HG3	2:J:274:GLU:CD	2.36	0.45
2:J:534:GLY:O	2:J:571:ASP:HA	2.17	0.45
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.99	0.45
2:J:1551:ILE:HG22	2:J:1552:GLU:N	2.31	0.45
2:J:1894:THR:HB	2:J:1954:GLN:OE1	2.16	0.45
2:K:1047:LEU:HD12	2:K:1047:LEU:N	2.31	0.45
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.46	0.45
2:K:1324:PHE:CA	2:K:1583:VAL:HG11	2.47	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.29	0.45
2:L:207:LEU:HD22	2:L:309:LYS:HG3	1.99	0.45
2:L:440:HIS:NE2	2:L:499:VAL:HG23	2.32	0.45
2:L:468:PRO:HA	2:L:479:ARG:HD3	1.99	0.45
2:L:746:GLY:O	2:L:843:TRP:NE1	2.49	0.45
2:L:857:VAL:HG13	2:L:876:TRP:CD1	2.50	0.45
2:L:1293:TRP:HE1	2:L:1586:ASP:HA	1.81	0.45
2:L:1709:TYR:HE2	2:L:1716:LYS:HE2	1.81	0.45
1:A:11:TYR:CD1	2:G:2027:LYS:HG2	2.50	0.45
1:A:636:TYR:CE1	1:A:883:LEU:HD23	2.51	0.45
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.98	0.45
1:B:40:ARG:NH2	1:B:72:THR:CG2	2.80	0.45
1:B:329:THR:O	1:B:332:GLN:HB2	2.16	0.45
1:B:1337:PRO:HA	1:B:1340:MET:CG	2.46	0.45
1:C:963:LEU:HD23	1:C:1023:GLU:HB3	1.98	0.45
1:C:1335:ARG:HH11	1:C:1339:GLU:HG2	1.81	0.45
1:D:498:THR:CG2	1:D:858:LEU:HA	2.41	0.45
1:E:421:ARG:NH2	1:E:1613:LYS:CG	2.79	0.45
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.52	0.45
1:F:767:HIS:NE2	1:F:771:LEU:HD22	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:57:PRO:HB2	2:G:65:GLN:HE22	1.81	0.45
2:G:76:VAL:HG11	2:G:109:PHE:HD1	1.82	0.45
2:G:685:VAL:CG1	2:G:687:ILE:HG13	2.41	0.45
2:G:856:THR:HG23	2:G:866:HIS:NE2	2.32	0.45
2:G:915:PHE:CD2	2:G:915:PHE:O	2.69	0.45
2:G:1053:ILE:CD1	2:G:1061:VAL:HG13	2.46	0.45
2:G:1655:HIS:HE1	2:G:1657:GLY:O	1.99	0.45
2:G:1894:THR:HB	2:G:1954:GLN:OE1	2.16	0.45
2:H:31:LEU:HB2	2:H:72:VAL:HG22	1.98	0.45
2:H:43:PHE:CZ	2:I:42:HIS:CE1	3.05	0.45
2:H:76:VAL:HG11	2:H:109:PHE:CD1	2.51	0.45
2:H:202:THR:O	2:H:206:GLU:HG3	2.16	0.45
2:H:1521:GLU:OE2	2:H:2028:THR:HG21	2.17	0.45
2:H:1903:VAL:HG11	2:H:1943:LEU:HD21	1.99	0.45
2:I:290:VAL:CG1	2:I:314:LEU:HD23	2.46	0.45
2:I:342:ASN:HB3	2:I:406:ARG:HD3	1.99	0.45
2:I:585:VAL:O	2:I:585:VAL:HG12	2.17	0.45
2:I:1749:PHE:CD2	2:I:1758:ARG:HB3	2.51	0.45
2:J:315:LEU:HA	2:J:318:ILE:HD12	1.97	0.45
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.73	0.45
2:J:1346:MET:CE	2:J:1617:ARG:HH21	2.30	0.45
4:J:2101:FMN:N1	4:J:2101:FMN:O2'	2.44	0.45
2:K:790:PRO:HA	2:K:795:SER:OG	2.17	0.45
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.81	0.45
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.52	0.45
2:K:1655:HIS:HE1	2:K:1657:GLY:O	1.99	0.45
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.52	0.45
2:L:153:PRO:HB3	2:L:270:ARG:NH1	2.31	0.45
2:L:381:SER:OG	2:L:392:THR:HG23	2.17	0.45
2:L:930:THR:O	2:L:934:VAL:HG23	2.16	0.45
2:L:942:MET:O	2:L:951:ILE:HG13	2.16	0.45
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.45
2:L:1161:MET:HE1	2:L:1193:LYS:HG2	1.99	0.45
2:L:1234:ILE:HG22	2:L:1242:ILE:HG22	1.98	0.45
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.27	0.45
1:A:620:LYS:HE3	1:A:626:TRP:CZ2	2.52	0.45
1:A:857:ASN:HA	1:A:860:ALA:HB2	1.98	0.45
1:A:997:THR:HG23	1:A:1361:VAL:HG22	1.98	0.45
1:A:1050:TRP:HA	1:A:1050:TRP:CE3	2.52	0.45
1:A:1473:HIS:NE2	1:E:1414:PRO:HG2	2.31	0.45
1:A:1514:ILE:H	1:A:1514:ILE:HG13	1.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:492:ILE:H	1:B:492:ILE:HG13	1.50	0.45
1:B:960:ARG:HH12	2:H:968:GLU:CD	2.19	0.45
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.16	0.45
1:B:1338:GLY:C	1:B:1340:MET:H	2.19	0.45
1:C:17:LEU:HD23	2:I:2043:VAL:CG2	2.46	0.45
1:C:41:THR:HA	2:I:1689:VAL:HB	1.98	0.45
1:C:857:ASN:HA	1:C:860:ALA:HB2	1.98	0.45
1:C:1186:VAL:HG12	1:C:1187:THR:N	2.31	0.45
1:C:1463:GLU:O	1:C:1467:LEU:HB2	2.16	0.45
1:D:79:LEU:HD12	1:D:88:ILE:HD13	1.99	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.17	0.45
1:F:421:ARG:NH2	1:F:1613:LYS:HB3	2.31	0.45
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.17	0.45
2:G:472:THR:HB	2:G:493:MET:HB3	1.99	0.45
2:G:1114:GLU:HB3	2:G:1169:TYR:CB	2.44	0.45
2:G:1311:GLY:HA3	2:G:1397:THR:HB	1.99	0.45
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.81	0.45
2:G:1905:GLU:O	2:G:1908:ALA:HB3	2.16	0.45
2:H:155:ASP:HB3	2:H:278:ARG:NH1	2.32	0.45
2:H:352:SER:HB2	2:H:433:LEU:HD11	1.99	0.45
2:H:529:ASN:HD22	2:H:552:VAL:HG23	1.82	0.45
2:H:1194:ARG:NH2	2:H:1601:ASN:HA	2.32	0.45
2:H:1384:PRO:HB3	2:H:1829:ARG:NH1	2.32	0.45
2:H:1538:ASN:HB3	2:H:1541:ILE:CG2	2.47	0.45
2:H:2008:THR:HG22	2:H:2011:ARG:HE	1.82	0.45
2:I:246:ALA:N	2:I:247:PRO:HD2	2.32	0.45
2:I:490:LEU:HA	2:I:493:MET:SD	2.56	0.45
2:I:501:TRP:CZ2	2:I:528:THR:CG2	2.99	0.45
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.47	0.45
2:I:664:TYR:C	2:I:666:ASN:H	2.20	0.45
2:I:728:ILE:HG22	2:I:732:LYS:HE3	1.97	0.45
2:I:917:ARG:HB2	2:I:937:ARG:HD3	1.98	0.45
2:I:1517:LEU:CD2	2:I:1523:ILE:HD11	2.46	0.45
2:I:1887:ASN:OD1	2:I:1889:SER:HB2	2.15	0.45
2:J:594:MET:SD	2:J:809:GLY:HA3	2.57	0.45
2:J:613:VAL:N	2:J:614:PRO:HD3	2.32	0.45
2:J:788:THR:CG2	2:J:1094:HIS:CE1	2.99	0.45
2:J:928:ASP:C	2:J:1007:LEU:HD23	2.37	0.45
2:J:1175:MET:HE1	2:J:1234:ILE:HG21	1.98	0.45
2:J:1269:ALA:HB1	2:J:1271:TYR:CE1	2.51	0.45
2:J:1903:VAL:HG11	2:J:1943:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:200:LEU:HD23	2:K:200:LEU:H	1.82	0.45
2:K:1009:ASN:HD22	2:K:1009:ASN:HA	1.56	0.45
2:L:462:ALA:HB3	2:L:483:ASP:HA	1.98	0.45
2:L:917:ARG:CG	2:L:917:ARG:NH1	2.44	0.45
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.52	0.45
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.42	0.45
2:L:1945:ILE:HG22	2:L:1946:LEU:N	2.32	0.45
1:A:22:PHE:HE2	2:G:2017:PHE:CB	2.29	0.45
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.79	0.45
1:A:506:ILE:HD13	1:A:922:ILE:HG22	1.99	0.45
1:A:549:TYR:O	1:A:553:ARG:HB3	2.17	0.45
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.15	0.45
1:A:570:TYR:CD2	1:A:574:ILE:HD11	2.49	0.45
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.81	0.45
1:A:1169:ASP:OD2	1:A:1171:ARG:HB2	2.17	0.45
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.98	0.45
1:A:1491:ASN:ND2	1:A:1491:ASN:N	2.65	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.32	0.45
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.81	0.45
1:B:79:LEU:HD12	1:B:88:ILE:HD13	1.99	0.45
1:B:427:ARG:HH12	1:B:492:ILE:CG2	2.07	0.45
1:B:1129:ILE:HA	1:B:1139:THR:O	2.16	0.45
1:B:1440:TYR:O	1:B:1444:GLN:HB2	2.16	0.45
1:B:1463:GLU:O	1:B:1467:LEU:HB2	2.16	0.45
1:B:1484:GLU:O	1:B:1487:THR:HB	2.17	0.45
1:B:1562:THR:HB	1:B:1572:TRP:CZ3	2.52	0.45
1:B:1652:GLU:O	1:B:1656:VAL:HG23	2.16	0.45
1:C:79:LEU:HD12	1:C:88:ILE:HD13	1.98	0.45
1:C:898:PHE:HD2	1:C:899:ALA:N	2.15	0.45
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.41	0.45
1:C:1473:HIS:NE2	1:F:1414:PRO:HG2	2.32	0.45
1:D:30:GLU:CB	2:J:2045:ALA:HB1	2.41	0.45
1:D:526:MET:CE	1:D:615:LEU:HG	2.47	0.45
1:D:746:PHE:CG	3:D:1901:NAP:H4D	2.51	0.45
1:E:330:LYS:HG3	1:E:333:ARG:HH12	1.79	0.45
1:E:741:ASP:CG	1:E:793:ARG:HH11	2.19	0.45
1:E:852:LEU:HD23	1:E:852:LEU:O	2.17	0.45
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.14	0.45
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.17	0.45
2:G:186:LEU:HD21	2:G:256:VAL:HG22	1.97	0.45
2:G:202:THR:O	2:G:206:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:250:PHE:O	2:G:315:LEU:HD23	2.17	0.45
2:G:459:LYS:O	2:G:461:PRO:HD3	2.16	0.45
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.70	0.45
2:G:690:LEU:HB2	2:G:711:ILE:HG21	1.99	0.45
2:G:871:ARG:HB2	2:G:909:ASP:HB2	1.98	0.45
2:G:1002:GLU:C	2:G:1004:SER:H	2.19	0.45
2:G:1194:ARG:NH1	2:G:1194:ARG:CG	2.51	0.45
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.17	0.45
2:G:1538:ASN:HB3	2:G:1541:ILE:CG2	2.46	0.45
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.17	0.45
2:G:1969:LEU:HA	2:G:1972:ILE:CD1	2.47	0.45
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.47	0.45
2:H:24:LEU:CD1	2:H:37:VAL:HG21	2.45	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:H:781:GLY:CA	2:H:1071:VAL:HG13	2.46	0.45
2:H:797:SER:O	2:H:802:TYR:HB2	2.16	0.45
2:H:907:ASN:HA	2:H:913:VAL:HG13	1.99	0.45
2:H:1350:ILE:HG22	2:H:1429:VAL:HG11	1.97	0.45
2:H:1351:VAL:CG1	2:H:1352:VAL:N	2.79	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
2:H:1985:GLN:C	2:H:1987:VAL:N	2.67	0.45
2:H:2009:PHE:C	2:H:2009:PHE:HD2	2.19	0.45
2:I:785:SER:HB3	2:I:1090:ILE:HG23	1.99	0.45
2:I:856:THR:HG23	2:I:866:HIS:NE2	2.31	0.45
2:I:871:ARG:HB2	2:I:909:ASP:HB2	1.98	0.45
2:I:1293:TRP:HZ3	2:I:1370:LEU:HD21	1.81	0.45
2:I:2058:VAL:O	2:I:2062:THR:HB	2.17	0.45
2:J:310:ARG:HH12	2:J:459:LYS:H	1.65	0.45
2:J:358:ARG:HB2	2:J:389:PHE:CE2	2.51	0.45
2:K:129:ILE:HG21	2:K:132:LYS:HD2	1.98	0.45
2:K:193:TYR:HD1	2:K:263:ILE:HD13	1.79	0.45
2:K:276:LEU:O	2:K:467:ILE:CD1	2.64	0.45
2:K:472:THR:HB	2:K:493:MET:HB3	1.99	0.45
2:K:931:TYR:CZ	2:K:1008:ILE:HA	2.52	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.16	0.45
2:L:45:ALA:HB2	2:L:101:VAL:HG22	1.99	0.45
2:L:906:LEU:HD22	2:L:906:LEU:HA	1.81	0.45
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.52	0.45
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.98	0.45
1:A:448:MET:HA	1:A:448:MET:HE3	1.99	0.45
1:A:576:ALA:HB3	1:F:541:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.50	0.45
1:A:1507:LEU:HD23	1:A:1507:LEU:HA	1.84	0.45
1:A:1696:PHE:HB3	1:E:1402:THR:HG22	1.99	0.45
1:B:40:ARG:HH21	1:B:72:THR:CG2	2.30	0.45
1:B:440:SER:HB3	1:B:481:LEU:CD2	2.39	0.45
1:B:859:VAL:HG12	1:B:859:VAL:O	2.16	0.45
1:B:1121:ARG:NH1	1:D:1153:ALA:O	2.49	0.45
1:D:413:MET:O	1:D:416:ASP:HB2	2.17	0.45
1:D:1102:ILE:HD13	1:D:1106:LEU:CD2	2.47	0.45
1:D:1495:ARG:O	1:D:1496:ARG:HB3	2.16	0.45
1:E:844:ILE:N	1:E:844:ILE:HD12	2.32	0.45
1:E:1171:ARG:HD3	1:E:1177:GLU:OE1	2.17	0.45
1:E:1219:GLY:HA2	1:E:1272:PRO:HD2	1.98	0.45
1:F:79:LEU:HD12	1:F:88:ILE:HD13	1.99	0.45
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.11	0.45
2:G:60:THR:HG22	2:G:62:GLU:H	1.81	0.45
2:G:330:SER:H	2:H:1331:THR:HG22	1.82	0.45
2:G:391:VAL:HG12	2:G:398:LEU:HD21	1.99	0.45
2:G:1175:MET:CE	2:G:1234:ILE:HG21	2.47	0.45
2:G:1238:GLY:O	2:G:1239:ASP:HB2	2.17	0.45
2:G:1515:LEU:CB	2:G:1525:VAL:HG21	2.47	0.45
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.52	0.45
2:G:1881:TYR:CZ	2:G:2009:PHE:HE1	2.35	0.45
2:H:155:ASP:OD1	2:H:155:ASP:N	2.49	0.45
2:H:207:LEU:HD22	2:H:309:LYS:HG3	1.99	0.45
2:H:382:LEU:HG	2:H:390:VAL:HB	1.98	0.45
2:H:489:GLU:O	2:H:492:ARG:HG2	2.17	0.45
2:H:595:SER:HB3	2:H:602:PRO:HD3	1.99	0.45
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.17	0.45
2:I:76:VAL:HG11	2:I:109:PHE:HD1	1.81	0.45
2:I:117:ASN:OD1	2:I:561:ARG:HB2	2.16	0.45
2:I:372:LEU:CD1	2:I:397:SER:HB2	2.47	0.45
2:I:608:MET:HA	4:I:2101:FMN:C5A	2.46	0.45
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.51	0.45
2:I:931:TYR:CZ	2:I:1008:ILE:HA	2.52	0.45
2:I:1195:LEU:CD2	2:I:1595:VAL:HG12	2.47	0.45
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	2.17	0.45
2:I:1656:VAL:HG22	2:I:1656:VAL:O	2.17	0.45
2:I:1721:ARG:NH1	2:I:1854:GLU:OE2	2.49	0.45
2:I:1985:GLN:C	2:I:1987:VAL:N	2.69	0.45
2:J:1019:LEU:HA	2:J:1022:ARG:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:CD2	2:J:1370:LEU:HD23	2.51	0.45
2:J:2052:LYS:H	2:J:2052:LYS:HG2	1.44	0.45
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.28	0.45
2:K:481:LEU:C	2:K:483:ASP:H	2.19	0.45
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.50	0.45
2:L:193:TYR:HD1	2:L:263:ILE:HD13	1.78	0.45
2:L:382:LEU:HG	2:L:390:VAL:HB	1.97	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.73	0.45
2:L:718:PRO:HG2	2:L:741:LEU:HD11	1.98	0.45
2:L:762:LEU:HD23	2:L:805:MET:HE1	1.99	0.45
2:L:1229:VAL:CG1	2:L:1230:LYS:N	2.79	0.45
2:L:1517:LEU:CD2	2:L:1523:ILE:HD11	2.47	0.45
1:A:539:THR:HA	1:A:542:GLN:HE21	1.82	0.45
1:A:1199:LEU:O	1:A:1199:LEU:HD23	2.17	0.45
1:B:543:ASN:O	1:B:546:ARG:HB2	2.17	0.45
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.47	0.45
1:B:1154:LEU:HD21	1:D:1118:GLU:OE2	2.17	0.45
1:C:443:LEU:HD12	1:C:443:LEU:H	1.82	0.45
1:C:1562:THR:HB	1:C:1572:TRP:CZ3	2.52	0.45
1:C:1584:GLY:HA2	1:C:1617:ILE:HD12	1.99	0.45
1:D:1078:ILE:HA	1:D:1162:GLY:HA2	1.98	0.45
1:D:1199:LEU:O	1:D:1199:LEU:HD23	2.17	0.45
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.81	0.45
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.98	0.45
1:E:452:ILE:CD1	1:E:467:LYS:HA	2.47	0.45
1:E:1022:LEU:O	1:E:1022:LEU:HD13	2.17	0.45
1:E:1395:ALA:HA	1:E:1396:PRO:HD3	1.81	0.45
1:E:1495:ARG:O	1:E:1496:ARG:HB3	2.16	0.45
1:F:1265:LEU:O	1:F:1266:LEU:HD23	2.17	0.45
1:F:1419:LYS:O	1:F:1422:ARG:HB2	2.17	0.45
1:F:1565:PRO:O	1:F:1566:LYS:C	2.55	0.45
2:G:196:PHE:HD2	2:G:196:PHE:N	2.14	0.45
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.51	0.45
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.51	0.45
2:G:938:MET:O	2:G:942:MET:HG3	2.17	0.45
2:G:1231:THR:HG23	2:G:1595:VAL:CG2	2.41	0.45
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.45
2:G:1985:GLN:C	2:G:1987:VAL:N	2.67	0.45
2:H:248:VAL:O	2:H:252:LEU:HB2	2.17	0.45
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.47	0.45
2:I:44:GLN:O	2:I:48:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:52:PHE:HB2	2:I:82:PHE:CE2	2.51	0.45
2:I:251:PRO:CG	2:I:316:PHE:HA	2.44	0.45
2:I:448:HIS:CD2	2:I:491:VAL:CG1	2.98	0.45
2:I:594:MET:HB3	2:I:808:ASP:O	2.16	0.45
2:I:604:MET:CE	2:I:811:MET:HB2	2.46	0.45
2:I:747:ARG:NH1	2:I:780:SER:O	2.50	0.45
2:I:1194:ARG:NH1	2:I:1194:ARG:CG	2.55	0.45
2:J:226:ASP:OD2	2:J:229:GLN:HB2	2.17	0.45
2:J:376:ARG:NH2	2:K:1340:LYS:HG3	2.32	0.45
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.98	0.45
2:J:617:PHE:CD1	2:J:822:ALA:CA	3.00	0.45
2:J:785:SER:O	2:J:789:TYR:HB2	2.17	0.45
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.16	0.45
2:K:1342:PHE:HE2	2:K:1391:VAL:HB	1.82	0.45
2:K:1722:ALA:HB1	2:K:1812:LEU:HD21	1.99	0.45
2:L:44:GLN:O	2:L:48:LEU:HG	2.17	0.45
2:L:962:PHE:O	2:L:965:ARG:HB3	2.16	0.45
2:L:1384:PRO:HB3	2:L:1829:ARG:HH12	1.82	0.45
1:A:21:GLN:HE21	1:A:21:GLN:HB3	1.57	0.45
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.44	0.45
1:A:1654:TYR:CZ	1:A:1658:VAL:HG21	2.52	0.45
1:B:20:TYR:CZ	2:H:2062:THR:HG23	2.52	0.45
1:B:455:CYS:HA	1:B:456:PRO:HD3	1.83	0.45
1:B:661:GLY:O	1:B:667:ALA:HB2	2.16	0.45
1:B:835:ASN:OD1	1:B:835:ASN:N	2.50	0.45
1:B:1011:ARG:HH11	1:B:1012:TRP:HA	1.82	0.45
1:B:1296:GLN:HG2	1:D:1296:GLN:HE21	1.82	0.45
1:B:1686:PRO:HB2	1:B:1713:PHE:CE1	2.52	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.96	0.45
1:D:1129:ILE:HA	1:D:1139:THR:O	2.16	0.45
1:E:1491:ASN:ND2	1:E:1491:ASN:H	2.15	0.45
1:F:50:SER:HB2	1:F:52:THR:HG23	1.99	0.45
1:F:716:GLN:NE2	1:F:747:ALA:HB3	2.32	0.45
1:F:1306:GLY:O	1:F:1357:CYS:HB2	2.17	0.45
2:G:290:VAL:HG11	2:G:315:LEU:CD1	2.47	0.45
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.76	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.52	0.45
2:G:937:ARG:CZ	2:G:941:LEU:HD11	2.47	0.45
2:G:955:LEU:HD21	2:G:1026:LYS:O	2.17	0.45
2:G:1179:GLU:OE1	2:G:1179:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.32	0.45
2:G:1496:VAL:HG21	2:G:1504:TYR:CD2	2.52	0.45
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.79	0.45
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.47	0.45
2:H:202:THR:HA	2:H:228:LEU:HD11	1.98	0.45
2:H:329:THR:HA	2:I:1331:THR:HG22	1.98	0.45
2:H:376:ARG:NH2	2:I:1340:LYS:HE3	2.27	0.45
2:H:460:ILE:O	2:H:486:ILE:N	2.49	0.45
2:H:468:PRO:HA	2:H:479:ARG:HD3	1.99	0.45
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.45
2:H:1057:TYR:C	2:H:1059:GLN:H	2.20	0.45
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.16	0.45
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.52	0.45
2:I:655:GLY:HA3	2:I:1272:ALA:HB2	1.98	0.45
2:I:716:PHE:CD1	2:I:727:VAL:HG13	2.52	0.45
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.52	0.45
2:I:1044:LYS:HE2	3:I:2102:NAP:H4B	1.99	0.45
2:I:1317:ASN:HB3	2:I:1320:ALA:CB	2.47	0.45
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.17	0.45
2:J:31:LEU:HB2	2:J:72:VAL:HG22	1.99	0.45
2:J:31:LEU:HD13	2:J:75:LEU:HG	1.99	0.45
2:J:129:ILE:CG2	2:J:132:LYS:HD2	2.47	0.45
2:J:1404:VAL:HA	2:J:1412:MET:O	2.17	0.45
2:J:2064:SER:OG	2:J:2067:ILE:HB	2.17	0.45
2:K:57:PRO:HB2	2:K:65:GLN:HE22	1.81	0.45
2:K:187:ARG:HH22	2:K:234:PRO:HA	1.82	0.45
2:K:311:ALA:O	2:K:314:LEU:HB3	2.17	0.45
2:K:560:ASP:HB3	2:K:565:ALA:HB1	1.99	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.98	0.45
2:L:276:LEU:O	2:L:467:ILE:CD1	2.65	0.45
2:L:318:ILE:HA	2:L:451:ILE:HD13	1.99	0.45
2:L:818:THR:HA	2:L:829:LYS:HE2	1.98	0.45
2:L:870:THR:HG21	2:L:1064:THR:O	2.16	0.45
2:L:1602:LEU:HB3	2:L:1604:GLY:H	1.82	0.45
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.84	0.44
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.17	0.44
1:A:1393:VAL:N	1:A:1394:PRO:CD	2.80	0.44
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.98	0.44
1:A:1495:ARG:HH11	1:A:1495:ARG:HG2	1.82	0.44
1:A:1546:GLY:O	1:A:1547:ARG:C	2.55	0.44
1:B:558:LEU:HD11	1:E:558:LEU:HD21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:TYR:O	1:B:574:ILE:HG12	2.17	0.44
1:B:575:ARG:HG2	1:B:579:MET:SD	2.57	0.44
1:B:940:ASN:HB3	1:B:949:GLU:OE2	2.17	0.44
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.46	0.44
1:B:1265:LEU:O	1:B:1266:LEU:HD23	2.17	0.44
1:B:1321:MET:HE3	1:D:1251:GLN:HG3	1.97	0.44
1:B:1617:ILE:N	1:B:1617:ILE:CD1	2.77	0.44
1:C:626:TRP:CD2	1:C:898:PHE:CD1	3.04	0.44
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.51	0.44
1:C:1393:VAL:N	1:C:1394:PRO:CD	2.80	0.44
1:C:1542:LEU:HD22	1:C:1547:ARG:HD3	1.99	0.44
1:D:409:ASP:HB2	1:D:439:ARG:HH12	1.82	0.44
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.31	0.44
1:E:392:ASP:HA	1:E:393:PRO:HD2	1.73	0.44
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.52	0.44
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.57	0.44
1:E:1184:ASP:OD1	1:E:1185:PRO:HD2	2.16	0.44
1:E:1463:GLU:O	1:E:1467:LEU:HB2	2.17	0.44
1:F:23:ALA:HB2	2:L:2010:LEU:HB2	1.99	0.44
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.52	0.44
1:F:766:ALA:HA	1:F:769:ILE:HD12	2.00	0.44
2:G:317:TRP:CD1	2:G:454:ASP:CG	2.90	0.44
2:G:460:ILE:O	2:G:486:ILE:N	2.50	0.44
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.16	0.44
2:G:1366:ILE:O	2:G:1366:ILE:HG22	2.17	0.44
2:G:1483:LEU:H	2:G:1483:LEU:HG	1.13	0.44
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.16	0.44
2:G:1643:VAL:CG1	2:G:1649:ILE:HD11	2.48	0.44
4:G:2101:FMN:N1	4:G:2101:FMN:O2'	2.47	0.44
2:H:52:PHE:HB2	2:H:82:PHE:CE2	2.52	0.44
2:H:571:ASP:OD2	2:H:573:VAL:HB	2.17	0.44
2:H:571:ASP:CG	2:H:573:VAL:HG23	2.38	0.44
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.52	0.44
2:H:746:GLY:O	2:H:843:TRP:NE1	2.50	0.44
2:H:827:GLN:H	2:H:827:GLN:CD	2.18	0.44
2:H:1067:LEU:O	2:H:1068:GLN:HG2	2.17	0.44
2:H:1481:ILE:HG13	2:H:1481:ILE:O	2.17	0.44
2:H:1635:TYR:CE2	2:H:1637:VAL:HG23	2.52	0.44
2:H:1977:ARG:CD	2:H:1978:LYS:HG3	2.47	0.44
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.51	0.44
2:I:781:GLY:CA	2:I:1071:VAL:HG13	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.44
2:I:1309:PHE:CD1	2:I:1309:PHE:N	2.84	0.44
2:I:1352:VAL:HG11	2:I:1395:LEU:HD12	1.98	0.44
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.53	0.44
2:I:1764:MET:HB3	2:I:1780:ILE:CG1	2.47	0.44
2:I:1903:VAL:HG13	2:I:1942:VAL:HG11	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.53	0.44
2:J:38:PRO:HD2	2:J:104:LEU:CD1	2.45	0.44
2:J:76:VAL:HG11	2:J:109:PHE:HD1	1.82	0.44
2:J:459:LYS:HA	2:J:485:ASP:CG	2.37	0.44
2:J:511:THR:C	2:J:512:HIS:CD2	2.91	0.44
2:J:749:GLY:HA3	4:J:2101:FMN:HM81	1.99	0.44
2:J:815:ARG:NH2	2:J:1086:ILE:CG2	2.80	0.44
2:J:917:ARG:HB2	2:J:937:ARG:HD3	1.99	0.44
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.97	0.44
2:J:1447:GLN:HB3	2:J:1496:VAL:HG13	1.99	0.44
2:K:174:GLY:HA2	2:K:524:ILE:CG1	2.47	0.44
2:K:582:LYS:HA	2:K:587:GLN:O	2.17	0.44
2:K:608:MET:HB3	2:K:608:MET:HE2	1.63	0.44
2:K:699:ILE:HD12	2:K:699:ILE:N	2.31	0.44
2:K:906:LEU:HD22	2:K:906:LEU:HA	1.79	0.44
2:K:1031:VAL:HA	2:K:1032:PRO:HD3	1.70	0.44
2:L:472:THR:HB	2:L:493:MET:HB3	1.99	0.44
2:L:609:THR:CB	2:L:610:PRO:HD3	2.47	0.44
2:L:787:ASP:O	2:L:790:PRO:HD2	2.17	0.44
2:L:1083:ILE:HG13	2:L:1083:ILE:H	1.53	0.44
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.52	0.44
1:A:47:ILE:CD1	2:G:1818:PHE:HD1	2.30	0.44
1:A:382:ILE:H	1:A:382:ILE:HG13	1.53	0.44
1:A:422:LEU:HD13	1:A:429:ILE:HG23	2.00	0.44
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.52	0.44
1:A:984:LEU:HD21	1:A:1510:TRP:O	2.17	0.44
1:A:1084:GLU:CD	1:A:1084:GLU:H	2.19	0.44
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	1.99	0.44
1:B:681:ILE:HG23	1:B:681:ILE:O	2.17	0.44
1:B:1306:GLY:O	1:B:1357:CYS:HB2	2.17	0.44
1:C:392:ASP:HA	1:C:393:PRO:HD2	1.78	0.44
1:C:1175:VAL:HA	1:C:1176:PRO:HD3	1.84	0.44
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.17	0.44
1:C:1514:ILE:CD1	1:C:1545:LEU:HB3	2.47	0.44
1:D:564:LEU:O	1:D:567:ASN:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:626:TRP:CD2	1:D:898:PHE:HD1	2.35	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:CB	2.46	0.44
1:D:1703:VAL:CG1	1:D:1711:LEU:HD22	2.47	0.44
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.83	0.44
1:E:474:ILE:O	1:E:478:LYS:HG3	2.17	0.44
1:E:526:MET:HE1	1:E:614:PHE:HB3	1.99	0.44
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.47	0.44
1:E:1579:GLN:O	1:E:1583:THR:HG23	2.17	0.44
1:F:852:LEU:O	1:F:852:LEU:HD23	2.17	0.44
2:G:45:ALA:HB2	2:G:101:VAL:HG22	2.00	0.44
2:G:1299:VAL:HA	2:G:1300:PRO:HD3	1.82	0.44
2:G:1370:LEU:CA	2:G:1435:TYR:HE2	2.30	0.44
2:H:208:LEU:HD23	2:H:211:LEU:HD12	1.99	0.44
2:H:472:THR:HB	2:H:493:MET:HB3	2.00	0.44
2:H:608:MET:HB3	2:H:608:MET:HE2	1.59	0.44
2:H:729:ASN:HD22	2:H:729:ASN:N	2.15	0.44
2:H:856:THR:HG23	2:H:866:HIS:NE2	2.32	0.44
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.44
2:H:1336:VAL:O	2:H:1336:VAL:HG12	2.17	0.44
2:H:1914:LEU:O	2:H:1931:GLY:HA3	2.18	0.44
2:H:1972:ILE:H	2:H:1972:ILE:HG13	1.42	0.44
2:I:353:ILE:HG22	2:I:353:ILE:O	2.16	0.44
2:I:606:ALA:HB2	2:I:811:MET:CG	2.47	0.44
2:I:827:GLN:H	2:I:827:GLN:CD	2.21	0.44
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.18	0.44
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.99	0.44
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.99	0.44
2:I:1644:LEU:HB3	2:I:1645:PRO:CD	2.47	0.44
2:J:168:LYS:H	2:J:511:THR:HB	1.82	0.44
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.52	0.44
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.98	0.44
2:J:868:LEU:HD12	2:J:1066:ILE:HD12	1.99	0.44
2:J:1948:MET:HG2	2:J:1993:PHE:CZ	2.52	0.44
2:J:1961:SER:O	2:J:1965:VAL:HG22	2.18	0.44
2:K:48:LEU:H	2:K:48:LEU:HG	1.54	0.44
2:K:113:PHE:CD1	2:K:113:PHE:N	2.85	0.44
2:K:196:PHE:CD1	2:K:266:LYS:HB3	2.52	0.44
2:K:204:ILE:CG2	2:K:312:VAL:HG21	2.46	0.44
2:K:876:TRP:C	2:K:876:TRP:HD1	2.16	0.44
2:K:917:ARG:CG	2:K:917:ARG:NH1	2.47	0.44
2:K:1336:VAL:O	2:K:1336:VAL:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1571:LEU:O	2:K:1649:ILE:N	2.46	0.44
2:K:1977:ARG:CD	2:K:1978:LYS:HG3	2.46	0.44
2:K:2009:PHE:C	2:K:2009:PHE:HD2	2.20	0.44
2:L:48:LEU:HB2	2:L:79:TYR:OH	2.18	0.44
2:L:52:PHE:HB2	2:L:82:PHE:CE2	2.53	0.44
2:L:204:ILE:CG2	2:L:312:VAL:HG11	2.47	0.44
2:L:276:LEU:HD21	2:L:296:ALA:HA	1.99	0.44
2:L:290:VAL:HG11	2:L:315:LEU:CD1	2.47	0.44
2:L:460:ILE:CD1	2:L:487:ILE:HD11	2.46	0.44
2:L:511:THR:O	2:L:512:HIS:CD2	2.70	0.44
2:L:846:THR:HG22	2:L:855:ILE:C	2.37	0.44
2:L:871:ARG:HB2	2:L:909:ASP:HB2	1.98	0.44
2:L:1181:PHE:HE1	2:L:1191:PRO:HD2	1.78	0.44
2:L:1443:GLU:OE1	2:L:1443:GLU:HA	2.17	0.44
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.17	0.44
1:A:613:PRO:C	1:A:615:LEU:N	2.70	0.44
1:A:1219:GLY:HA2	1:A:1272:PRO:HD2	1.99	0.44
1:B:330:LYS:HG3	1:B:333:ARG:HH12	1.80	0.44
1:B:1080:LEU:HD23	1:B:1080:LEU:HA	1.87	0.44
1:B:1186:VAL:HG12	1:B:1187:THR:N	2.31	0.44
1:C:93:GLU:HA	1:C:94:PRO:HD3	1.83	0.44
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.98	0.44
1:C:1592:ALA:O	1:C:1593:ASP:C	2.54	0.44
1:D:1107:GLU:HA	1:D:1108:PRO:HD3	1.72	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.74	0.44
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.98	0.44
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.50	0.44
1:D:1686:PRO:HB2	1:D:1713:PHE:CE1	2.53	0.44
1:E:409:ASP:HB2	1:E:439:ARG:HH12	1.83	0.44
1:E:553:ARG:C	1:E:555:GLN:H	2.21	0.44
1:E:570:TYR:CD2	1:E:574:ILE:HD11	2.51	0.44
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.64	0.44
1:F:450:TYR:CD2	1:F:450:TYR:C	2.90	0.44
1:F:452:ILE:HD13	1:F:452:ILE:HA	1.89	0.44
1:F:673:LEU:HD21	1:F:884:MET:HE3	1.99	0.44
1:F:902:ASN:C	1:F:904:GLY:H	2.20	0.44
1:F:1102:ILE:HD13	1:F:1106:LEU:CD2	2.48	0.44
2:G:38:PRO:HD2	2:G:104:LEU:CD1	2.46	0.44
2:G:821:GLU:OE2	2:G:1083:ILE:HG13	2.16	0.44
2:G:916:GLY:O	2:G:924:VAL:HG23	2.17	0.44
2:G:1693:VAL:HA	2:G:1834:ALA:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.77	0.44
2:H:611:THR:HG21	2:H:817:MET:CE	2.46	0.44
2:H:990:TYR:N	2:H:991:PRO:CD	2.80	0.44
2:H:1350:ILE:HD13	2:H:1610:MET:SD	2.57	0.44
2:H:1384:PRO:CB	2:H:1829:ARG:HH12	2.30	0.44
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.41	0.44
2:I:690:LEU:HD22	2:I:691:THR:H	1.82	0.44
2:I:704:GLU:HA	2:I:704:GLU:OE1	2.17	0.44
2:I:906:LEU:HD22	2:I:906:LEU:HA	1.80	0.44
2:I:929:MET:CE	2:I:934:VAL:HA	2.47	0.44
2:I:1219:VAL:HB	2:I:1231:THR:HB	1.99	0.44
2:I:1351:VAL:CG1	2:I:1352:VAL:N	2.80	0.44
2:I:1473:PHE:HE1	2:I:1513:VAL:HG21	1.81	0.44
2:I:1481:ILE:O	2:I:1481:ILE:HG13	2.18	0.44
2:I:1933:LEU:HB3	2:I:1987:VAL:HB	1.99	0.44
2:J:265:CYS:SG	2:J:275:LEU:HB2	2.57	0.44
2:J:268:LEU:HB3	2:J:270:ARG:HD3	1.98	0.44
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.18	0.44
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.17	0.44
2:J:1709:TYR:HE2	2:J:1716:LYS:HE2	1.82	0.44
2:J:1749:PHE:CD2	2:J:1758:ARG:HB3	2.53	0.44
2:K:153:PRO:HB3	2:K:270:ARG:NH1	2.32	0.44
2:K:271:GLU:H	2:K:274:GLU:CG	2.30	0.44
2:K:287:GLN:O	2:K:287:GLN:HG2	2.18	0.44
2:K:342:ASN:HB3	2:K:406:ARG:HD3	1.99	0.44
2:K:541:LEU:HG	2:K:552:VAL:CG1	2.48	0.44
2:K:609:THR:CB	2:K:610:PRO:HD3	2.46	0.44
2:K:685:VAL:HG13	2:K:686:PRO:HD2	1.99	0.44
2:K:743:TRP:CD1	2:K:761:ILE:HD11	2.52	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.81	0.44
2:K:1047:LEU:HD12	2:K:1047:LEU:H	1.82	0.44
2:K:1050:SER:HA	2:K:1064:THR:HG21	1.99	0.44
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.52	0.44
2:K:1229:VAL:CG1	2:K:1230:LYS:N	2.81	0.44
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.18	0.44
2:K:1752:PRO:O	2:K:1756:ILE:HG23	2.17	0.44
2:K:1865:LEU:O	2:K:1869:VAL:HG22	2.17	0.44
2:L:202:THR:HA	2:L:228:LEU:HD11	1.98	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.53	0.44
2:L:416:GLN:HE22	2:L:425:LYS:H	1.66	0.44
2:L:668:ARG:HH21	2:L:1023:ARG:HH12	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1371:LEU:O	2:L:1590:ILE:HD11	2.17	0.44
2:L:1969:LEU:HA	2:L:1972:ILE:HD12	2.00	0.44
1:A:486:VAL:HG13	1:A:648:LEU:H	1.80	0.44
1:A:1420:TYR:O	1:A:1424:GLN:HG2	2.18	0.44
1:A:1672:GLY:O	1:A:1676:ASN:N	2.50	0.44
1:B:1249:ILE:H	1:B:1249:ILE:HG13	1.31	0.44
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.53	0.44
1:C:844:ILE:HD12	1:C:844:ILE:H	1.82	0.44
1:C:883:LEU:N	1:C:883:LEU:HD23	2.32	0.44
1:C:1011:ARG:HH11	1:C:1012:TRP:HA	1.81	0.44
1:C:1172:ARG:HH11	1:C:1172:ARG:HG3	1.83	0.44
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.17	0.44
1:D:1042:LEU:O	1:D:1043:LYS:HB2	2.17	0.44
1:D:1148:LEU:HD23	1:D:1148:LEU:HA	1.67	0.44
1:D:1171:ARG:HD3	1:D:1177:GLU:OE1	2.16	0.44
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.99	0.44
1:E:1065:LYS:O	1:E:1069:GLU:HB2	2.18	0.44
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.58	0.44
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.52	0.44
1:F:687:PHE:CD2	1:F:687:PHE:C	2.91	0.44
1:F:1160:VAL:HG11	1:F:1337:PRO:HB3	1.99	0.44
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.17	0.44
2:G:342:ASN:HB3	2:G:406:ARG:HD3	1.97	0.44
2:G:528:THR:HA	2:G:531:ASN:ND2	2.33	0.44
2:G:609:THR:CG2	2:G:633:GLY:HA3	2.46	0.44
2:G:754:PHE:CD1	2:G:754:PHE:N	2.85	0.44
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.32	0.44
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.70	0.44
2:G:1067:LEU:HB3	4:G:2101:FMN:HM82	2.00	0.44
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.29	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
2:H:186:LEU:HD21	2:H:256:VAL:HG22	1.99	0.44
2:H:327:PRO:N	2:I:1338:ARG:NH2	2.66	0.44
2:H:604:MET:HE1	2:H:777:VAL:HG11	1.99	0.44
2:H:915:PHE:CD2	2:H:915:PHE:O	2.70	0.44
2:H:938:MET:HE2	2:H:959:THR:HG22	1.99	0.44
2:H:1643:VAL:HG13	2:H:1649:ILE:HD11	1.99	0.44
2:H:1746:THR:CB	2:H:1792:THR:HG23	2.43	0.44
2:H:1886:VAL:HG22	2:H:1995:THR:HG22	1.99	0.44
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.18	0.44
2:H:1966:ARG:HG3	2:H:1967:ALA:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:155:ASP:OD1	2:I:155:ASP:N	2.51	0.44
2:I:202:THR:O	2:I:206:GLU:HG3	2.18	0.44
2:I:610:PRO:HD2	4:I:2101:FMN:C6	2.24	0.44
2:I:719:GLY:O	2:I:755:GLU:HG3	2.17	0.44
2:I:1231:THR:CG2	2:I:1595:VAL:HG11	2.48	0.44
2:I:1336:VAL:O	2:I:1336:VAL:HG12	2.17	0.44
2:I:1728:GLU:HG2	2:I:1753:ARG:HE	1.82	0.44
2:J:45:ALA:HB2	2:J:101:VAL:HG22	2.00	0.44
2:J:197:VAL:HA	2:J:262:MET:HE1	1.99	0.44
2:J:611:THR:HG22	2:J:1051:GLU:OE2	2.18	0.44
2:J:728:ILE:O	2:J:732:LYS:HG3	2.17	0.44
2:J:796:TRP:HH2	2:J:805:MET:HE1	1.76	0.44
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.17	0.44
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.17	0.44
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	2.00	0.44
2:K:606:ALA:HB2	2:K:811:MET:CG	2.47	0.44
2:K:617:PHE:HE1	2:K:819:ALA:HB3	1.82	0.44
2:K:690:LEU:HD22	2:K:691:THR:H	1.83	0.44
2:K:826:LYS:HD3	2:K:826:LYS:HA	1.79	0.44
2:K:1977:ARG:HD3	2:K:1978:LYS:HG3	1.98	0.44
2:L:821:GLU:OE2	2:L:1083:ILE:HG13	2.17	0.44
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.18	0.44
2:L:1981:GLU:O	2:L:1984:PRO:HG3	2.16	0.44
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.32	0.44
1:A:687:PHE:HD2	1:A:687:PHE:O	2.01	0.44
1:B:6:GLU:HA	2:H:2050:ILE:HD11	2.00	0.44
1:B:535:TYR:HH	1:B:630:LYS:HE3	1.74	0.44
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.31	0.44
1:B:1104:GLN:OE1	1:D:1107:GLU:CB	2.60	0.44
1:B:1171:ARG:HD3	1:B:1177:GLU:OE1	2.18	0.44
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.60	0.44
1:B:1303:LEU:HA	1:B:1303:LEU:HD23	1.61	0.44
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.50	0.44
1:C:526:MET:HE3	1:C:614:PHE:CB	2.48	0.44
1:C:560:LYS:O	1:C:564:LEU:HB2	2.18	0.44
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.78	0.44
1:D:1078:ILE:HG23	1:D:1352:MET:HE3	1.99	0.44
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	2.00	0.44
1:D:1514:ILE:CD1	1:D:1545:LEU:HB3	2.48	0.44
1:E:1522:PHE:CD2	1:E:1534:GLU:HB3	2.52	0.44
1:E:1686:PRO:HD2	1:E:1687:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.99	0.44
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.98	0.44
1:F:1546:GLY:O	1:F:1547:ARG:C	2.56	0.44
2:G:52:PHE:HB2	2:G:82:PHE:CE2	2.53	0.44
2:G:468:PRO:HA	2:G:479:ARG:HD3	2.00	0.44
2:G:596:ARG:HD3	2:G:1119:ARG:HG3	1.99	0.44
2:G:600:VAL:HG13	2:G:601:PRO:N	2.32	0.44
2:G:724:ILE:O	2:G:727:VAL:HG23	2.17	0.44
2:G:737:PHE:HA	2:G:738:PRO:HD3	1.85	0.44
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.99	0.44
2:G:907:ASN:HA	2:G:913:VAL:HG13	2.00	0.44
2:G:1026:LYS:HG3	3:G:2102:NAP:N7A	2.32	0.44
2:G:1217:ILE:O	2:G:1233:GLU:HA	2.17	0.44
2:H:779:GLY:HA3	2:H:811:MET:CE	2.46	0.44
2:H:1945:ILE:O	2:H:1949:GLN:HB2	2.18	0.44
2:I:31:LEU:HB2	2:I:72:VAL:HG22	2.00	0.44
2:I:77:ALA:O	2:I:139:ALA:HB1	2.18	0.44
2:I:186:LEU:HD11	2:I:255:LEU:HD23	1.99	0.44
2:I:472:THR:HB	2:I:493:MET:HE3	1.99	0.44
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.52	0.44
2:I:818:THR:HA	2:I:829:LYS:HE2	1.99	0.44
2:I:1028:VAL:HG13	2:I:1030:PHE:CE2	2.52	0.44
2:I:1934:ARG:H	2:I:1934:ARG:HG3	1.62	0.44
4:I:2101:FMN:N1	4:I:2101:FMN:O2'	2.45	0.44
2:J:604:MET:HG3	2:J:627:HIS:O	2.18	0.44
2:J:854:VAL:HA	2:J:867:LYS:O	2.17	0.44
2:J:1340:LYS:HG3	2:L:376:ARG:HH21	1.76	0.44
2:J:2009:PHE:HD2	2:J:2009:PHE:C	2.20	0.44
2:K:60:THR:HG22	2:K:62:GLU:HG3	1.99	0.44
2:K:187:ARG:NH2	2:K:230:TRP:O	2.50	0.44
2:K:608:MET:HA	4:K:2101:FMN:C5A	2.46	0.44
2:K:1248:GLU:OE2	2:K:1250:ARG:NE	2.47	0.44
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.78	0.44
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.18	0.44
2:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44
2:L:596:ARG:HD3	2:L:1119:ARG:HG3	2.00	0.44
2:L:716:PHE:HD1	2:L:727:VAL:CG1	2.30	0.44
2:L:1047:LEU:HD12	2:L:1047:LEU:H	1.82	0.44
2:L:1123:ALA:O	2:L:1126:GLU:CG	2.57	0.44
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.18	0.44
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:LYS:HG3	1:A:333:ARG:HH12	1.79	0.44
1:A:1171:ARG:HD3	1:A:1177:GLU:OE1	2.17	0.44
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.52	0.44
1:A:1648:LYS:O	1:A:1652:GLU:HB2	2.17	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.16	0.44
1:B:413:MET:O	1:B:416:ASP:HB2	2.18	0.44
1:B:579:MET:CE	1:E:612:ILE:HD12	2.48	0.44
1:B:613:PRO:O	1:B:615:LEU:N	2.50	0.44
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.38	0.44
1:B:1102:ILE:HD11	1:B:1148:LEU:HG	1.98	0.44
1:C:452:ILE:HG22	1:C:453:ASP:N	2.31	0.44
1:C:914:LEU:O	1:C:917:LYS:HB3	2.16	0.44
1:C:1078:ILE:HA	1:C:1162:GLY:HA2	2.00	0.44
1:D:524:LYS:O	1:D:525:GLN:C	2.55	0.44
1:D:539:THR:HA	1:D:542:GLN:HE21	1.82	0.44
1:D:612:ILE:HG12	1:D:628:TYR:CD2	2.53	0.44
1:E:363:GLU:O	1:E:366:LYS:HB2	2.17	0.44
1:E:628:TYR:CD1	1:E:629:SER:N	2.86	0.44
1:E:746:PHE:CG	3:E:1901:NAP:H4D	2.53	0.44
1:E:889:VAL:O	1:E:893:GLN:HG3	2.18	0.44
1:E:997:THR:HG23	1:E:1361:VAL:HG22	1.99	0.44
1:E:1580:VAL:O	1:E:1617:ILE:HD11	2.17	0.44
1:E:1674:ILE:HG22	1:E:1675:ASN:OD1	2.18	0.44
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.48	0.44
1:F:857:ASN:HA	1:F:860:ALA:HB2	1.98	0.44
1:F:1219:GLY:HA2	1:F:1272:PRO:HD2	2.00	0.44
1:F:1514:ILE:CD1	1:F:1545:LEU:HB3	2.48	0.44
2:G:489:GLU:O	2:G:492:ARG:HG2	2.17	0.44
2:G:942:MET:HE2	2:G:955:LEU:HB3	1.99	0.44
2:G:1207:THR:O	2:G:1215:THR:HG23	2.17	0.44
2:G:1845:VAL:CG2	2:G:1856:LEU:HD22	2.42	0.44
2:G:2008:THR:HG22	2:G:2011:ARG:HE	1.83	0.44
2:H:310:ARG:HH12	2:H:459:LYS:H	1.66	0.44
2:H:613:VAL:H	2:H:614:PRO:HD3	1.82	0.44
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.98	0.44
2:H:912:LYS:HE2	2:H:1028:VAL:O	2.18	0.44
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.17	0.44
2:H:2003:VAL:HA	2:H:2004:PRO:HD3	1.85	0.44
2:I:174:GLY:H	2:I:517:GLY:CA	2.30	0.44
2:I:709:LEU:HD23	2:I:709:LEU:N	2.28	0.44
2:I:1163:LEU:HD12	2:I:1163:LEU:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1515:LEU:CB	2:I:1525:VAL:HG21	2.47	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:762:LEU:HD23	2:J:805:MET:HE1	2.00	0.44
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.00	0.44
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.18	0.44
2:J:1175:MET:O	2:J:1192:LEU:HD12	2.17	0.44
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.53	0.44
2:J:1234:ILE:HG22	2:J:1242:ILE:HG22	1.99	0.44
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.17	0.44
2:K:38:PRO:HD2	2:K:104:LEU:CD1	2.45	0.44
2:K:52:PHE:HB2	2:K:82:PHE:CE2	2.52	0.44
2:K:382:LEU:HG	2:K:390:VAL:HB	2.00	0.44
2:K:506:VAL:O	2:K:506:VAL:CG1	2.63	0.44
2:K:617:PHE:CD1	2:K:822:ALA:CA	3.01	0.44
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.48	0.44
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.18	0.44
2:K:1945:ILE:O	2:K:1949:GLN:HB2	2.18	0.44
2:L:26:LEU:HD23	2:L:49:LYS:HG3	2.00	0.44
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.98	0.44
2:L:617:PHE:HE1	2:L:819:ALA:HB3	1.83	0.44
2:L:990:TYR:N	2:L:991:PRO:CD	2.80	0.44
2:L:1028:VAL:HA	2:L:1029:PRO:HD3	1.73	0.44
2:L:1179:GLU:OE1	2:L:1179:GLU:N	2.47	0.44
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	2.00	0.44
2:L:1807:GLN:HB3	2:L:1860:VAL:CG1	2.47	0.44
1:A:544:ASP:HB3	1:F:569:LEU:HD22	2.00	0.44
1:A:612:ILE:HD11	1:F:579:MET:HB3	2.00	0.44
1:A:1491:ASN:H	1:A:1491:ASN:ND2	2.14	0.44
1:B:383:TYR:O	1:B:387:ILE:HG12	2.18	0.44
1:B:452:ILE:HG22	1:B:453:ASP:N	2.31	0.44
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.99	0.44
1:B:902:ASN:C	1:B:904:GLY:H	2.21	0.44
1:B:1491:ASN:ND2	1:B:1491:ASN:N	2.65	0.44
1:C:472:GLN:HA	1:C:472:GLN:HE21	1.82	0.44
1:C:667:ALA:O	1:C:671:GLN:HG3	2.18	0.44
1:C:1011:ARG:NH1	1:C:1012:TRP:HA	2.32	0.44
1:C:1153:ALA:O	1:F:1121:ARG:NH1	2.51	0.44
1:C:1293:THR:HG23	1:C:1298:LYS:HB2	1.99	0.44
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.82	0.44
1:D:801:LEU:HD13	1:D:822:GLU:HG2	2.00	0.44
1:D:1102:ILE:H	1:D:1102:ILE:HG13	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:445:LEU:O	1:E:448:MET:HB2	2.18	0.44
1:E:498:THR:CG2	1:E:858:LEU:HA	2.42	0.44
1:E:759:ILE:HG12	1:E:813:LEU:HD23	2.00	0.44
1:E:1160:VAL:HG11	1:E:1337:PRO:HB3	1.99	0.44
1:F:533:SER:O	1:F:611:THR:HG22	2.18	0.44
1:F:880:LEU:C	1:F:882:GLY:N	2.70	0.44
1:F:1171:ARG:HD3	1:F:1177:GLU:OE1	2.18	0.44
1:F:1404:ALA:HA	1:F:1501:ALA:HB1	2.00	0.44
2:G:248:VAL:O	2:G:252:LEU:HB2	2.18	0.44
2:G:1721:ARG:NH1	2:G:1854:GLU:OE2	2.51	0.44
2:G:1769:VAL:HG13	2:G:1774:SER:C	2.38	0.44
2:G:1945:ILE:O	2:G:1949:GLN:HB2	2.17	0.44
2:H:76:VAL:HG11	2:H:109:PHE:HD1	1.83	0.44
2:H:113:PHE:N	2:H:113:PHE:CD1	2.85	0.44
2:H:138:ARG:HB2	2:H:192:THR:HA	1.99	0.44
2:H:462:ALA:HB3	2:H:483:ASP:HA	1.99	0.44
2:H:617:PHE:HE1	2:H:819:ALA:HB3	1.83	0.44
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.98	0.44
2:H:1331:THR:HG22	2:H:1331:THR:O	2.18	0.44
2:I:223:LYS:HB3	2:I:242:TYR:CZ	2.53	0.44
2:I:1645:PRO:O	2:I:1646:ASN:HB2	2.16	0.44
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	2.00	0.44
2:J:169:ILE:HG22	2:J:279:PHE:CD2	2.52	0.44
2:J:444:LEU:HA	2:J:444:LEU:HD23	1.76	0.44
2:J:613:VAL:HG13	2:J:614:PRO:CD	2.47	0.44
2:J:664:TYR:C	2:J:666:ASN:H	2.19	0.44
2:J:930:THR:CG2	2:J:933:GLU:H	2.27	0.44
2:J:937:ARG:CZ	2:J:941:LEU:HD11	2.47	0.44
2:J:976:GLN:HA	2:J:977:PRO:HD3	1.88	0.44
2:J:1002:GLU:C	2:J:1004:SER:H	2.19	0.44
2:J:1299:VAL:HG13	2:J:1301:PHE:CE1	2.53	0.44
2:J:1769:VAL:HG13	2:J:1774:SER:C	2.38	0.44
2:J:1905:GLU:O	2:J:1908:ALA:HB3	2.17	0.44
2:K:169:ILE:HG22	2:K:279:PHE:CD2	2.51	0.44
2:K:173:PHE:CE2	2:K:516:PHE:HB2	2.53	0.44
2:K:381:SER:OG	2:K:392:THR:HG23	2.16	0.44
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.99	0.44
2:K:1102:LEU:HD23	2:K:1102:LEU:HA	1.83	0.44
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.17	0.44
2:K:1120:ILE:HD11	2:K:1173:HIS:NE2	2.32	0.44
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1637:VAL:HG11	2:K:1679:LEU:CD1	2.39	0.44
2:L:858:LEU:CD2	2:L:864:PRO:HA	2.47	0.44
2:L:1768:THR:O	2:L:1776:LYS:HB2	2.17	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44
1:A:474:ILE:O	1:A:478:LYS:HG3	2.17	0.44
1:A:1338:GLY:C	1:A:1340:MET:H	2.19	0.44
1:A:1577:CYS:SG	1:A:1622:VAL:HG12	2.58	0.44
1:B:23:ALA:HA	2:H:2007:SER:O	2.17	0.44
1:C:1102:ILE:HD11	1:C:1148:LEU:HG	2.00	0.44
1:C:1171:ARG:HD3	1:C:1177:GLU:OE1	2.17	0.44
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.17	0.44
1:C:1674:ILE:HG22	1:C:1675:ASN:OD1	2.18	0.44
1:E:491:SER:O	1:E:493:PRO:HD3	2.18	0.44
1:E:902:ASN:C	1:E:904:GLY:H	2.21	0.44
1:E:960:ARG:HG3	1:E:960:ARG:NH1	2.33	0.44
1:F:628:TYR:CD1	1:F:629:SER:N	2.85	0.44
1:F:853:MET:HG2	1:F:856:ASN:ND2	2.32	0.44
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.32	0.44
1:F:1651:TYR:CE2	1:F:1655:CYS:SG	3.11	0.44
1:F:1698:ASN:HA	1:F:1699:PRO:HD3	1.81	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.33	0.44
2:G:746:GLY:O	2:G:843:TRP:NE1	2.50	0.44
2:G:1443:GLU:HA	2:G:1443:GLU:OE1	2.18	0.44
2:G:1551:ILE:HG22	2:G:1552:GLU:N	2.33	0.44
2:H:38:PRO:HD2	2:H:104:LEU:CD1	2.47	0.44
2:H:521:VAL:O	2:H:521:VAL:HG12	2.18	0.44
2:H:937:ARG:NE	2:H:941:LEU:CD1	2.81	0.44
2:H:1067:LEU:HB3	4:H:2101:FMN:HM82	2.00	0.44
2:H:1851:MET:HB3	2:H:1851:MET:HE3	1.83	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.47	0.44
2:I:1602:LEU:HB3	2:I:1604:GLY:H	1.82	0.44
4:I:2101:FMN:H9	4:I:2101:FMN:H1'2	1.90	0.44
2:J:173:PHE:CE2	2:J:516:PHE:HB2	2.53	0.44
2:J:223:LYS:HB3	2:J:242:TYR:CZ	2.52	0.44
2:J:376:ARG:HH22	2:K:1340:LYS:HE2	1.82	0.44
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.99	0.44
2:J:489:GLU:O	2:J:492:ARG:HG2	2.18	0.44
2:J:608:MET:HA	4:J:2101:FMN:C5A	2.47	0.44
2:J:729:ASN:HD22	2:J:729:ASN:N	2.16	0.44
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.99	0.44
2:J:1977:ARG:CD	2:J:1978:LYS:HG3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:196:PHE:HD2	2:K:196:PHE:N	2.16	0.44
2:K:461:PRO:HB3	2:K:483:ASP:O	2.17	0.44
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.17	0.44
2:K:1171:TRP:CH2	2:K:1236:LEU:HB2	2.53	0.44
2:K:1844:LEU:HD22	2:K:1850:VAL:HG21	1.99	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	1.98	0.44
2:K:1985:GLN:C	2:K:1987:VAL:N	2.68	0.44
2:L:459:LYS:HA	2:L:485:ASP:CG	2.38	0.44
2:L:704:GLU:OE1	2:L:704:GLU:HA	2.17	0.44
2:L:723:ALA:O	2:L:726:GLN:HB2	2.17	0.44
2:L:781:GLY:CA	2:L:1071:VAL:HG13	2.45	0.44
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	2.00	0.44
2:L:1594:ARG:NH1	2:L:1595:VAL:HG13	2.33	0.44
1:A:407:ARG:H	1:A:407:ARG:HG3	1.59	0.44
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.80	0.44
1:A:526:MET:CE	1:A:614:PHE:HB3	2.48	0.44
1:A:553:ARG:C	1:A:555:GLN:H	2.21	0.44
1:A:1160:VAL:C	1:A:1352:MET:HE1	2.38	0.44
1:A:1703:VAL:HG22	1:A:1712:LYS:C	2.37	0.44
1:B:535:TYR:CE1	1:B:610:GLU:HB3	2.53	0.44
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.18	0.44
1:D:28:TRP:HE1	1:D:32:GLN:NE2	2.16	0.44
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.31	0.44
1:D:553:ARG:C	1:D:555:GLN:H	2.20	0.44
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	2.00	0.44
1:E:452:ILE:HG22	1:E:453:ASP:N	2.33	0.44
1:E:914:LEU:O	1:E:917:LYS:HB3	2.18	0.44
1:E:1079:ARG:HG2	1:E:1079:ARG:NH1	2.14	0.44
1:E:1470:ARG:HD3	1:E:1470:ARG:HA	1.77	0.44
1:E:1494:TRP:CG	1:E:1505:GLY:HA3	2.53	0.44
2:G:472:THR:CG2	2:G:499:VAL:HG22	2.48	0.44
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.48	0.44
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.00	0.44
2:G:1000:TYR:HA	2:G:1001:PRO:HD2	1.69	0.44
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.18	0.44
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.48	0.44
2:H:664:TYR:C	2:H:666:ASN:H	2.22	0.44
2:H:765:TYR:CD2	2:H:805:MET:HG2	2.52	0.44
2:H:932:ALA:O	2:H:935:VAL:HG13	2.18	0.44
2:H:1149:ALA:HA	2:H:1150:PRO:HD3	1.89	0.44
2:I:31:LEU:HD13	2:I:75:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:459:LYS:HA	2:I:485:ASP:CG	2.37	0.44
2:I:676:LEU:HD13	2:I:676:LEU:C	2.38	0.44
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.17	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HG3	2.48	0.44
2:I:1977:ARG:HD3	2:I:1978:LYS:HG3	1.99	0.44
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.44
2:J:1314:GLU:O	2:J:1394:VAL:HA	2.18	0.44
2:J:1351:VAL:CG2	2:J:1584:SER:HA	2.47	0.44
2:J:1738:VAL:HA	2:J:1800:LEU:HD13	1.99	0.44
2:J:1865:LEU:O	2:J:1869:VAL:HG22	2.18	0.44
2:K:656:ARG:NH1	2:K:656:ARG:CG	2.80	0.44
2:K:704:GLU:OE1	2:K:704:GLU:HA	2.18	0.44
2:K:754:PHE:N	2:K:754:PHE:CD1	2.86	0.44
2:K:1969:LEU:HA	2:K:1972:ILE:HD12	1.99	0.44
2:K:1981:GLU:O	2:K:1984:PRO:HG3	2.18	0.44
2:K:2064:SER:OG	2:K:2067:ILE:HB	2.18	0.44
2:L:174:GLY:HA2	2:L:524:ILE:CG1	2.48	0.44
2:L:187:ARG:NH2	2:L:234:PRO:HA	2.33	0.44
2:L:226:ASP:OD2	2:L:229:GLN:HB2	2.18	0.44
2:L:580:LEU:O	2:L:581:VAL:HG23	2.18	0.44
2:L:617:PHE:CD1	2:L:822:ALA:CA	3.01	0.44
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	2.00	0.44
1:A:30:GLU:CB	2:G:2045:ALA:HB1	2.48	0.43
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.43
1:A:427:ARG:O	1:A:430:VAL:HB	2.17	0.43
1:A:715:ASN:ND2	3:A:1901:NAP:H62A	2.16	0.43
1:A:1057:GLU:HA	1:A:1058:PRO:HD3	1.87	0.43
1:B:405:TRP:CH2	1:B:1609:SER:HB3	2.53	0.43
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.53	0.43
1:C:620:LYS:HE3	1:C:626:TRP:CZ2	2.53	0.43
1:C:799:LEU:HD11	1:C:824:LEU:HD12	1.99	0.43
1:C:902:ASN:C	1:C:904:GLY:H	2.21	0.43
1:C:962:ASN:HD22	2:I:1006:GLN:HE22	1.64	0.43
1:C:1102:ILE:HD13	1:C:1106:LEU:CD2	2.48	0.43
1:D:898:PHE:HD2	1:D:899:ALA:N	2.16	0.43
1:D:1102:ILE:CG2	1:D:1104:GLN:HG2	2.47	0.43
1:E:532:ILE:HG23	1:E:907:PHE:CB	2.46	0.43
1:E:626:TRP:CD2	1:E:898:PHE:CD1	3.06	0.43
1:E:1042:LEU:O	1:E:1043:LYS:HB2	2.18	0.43
1:F:452:ILE:HG22	1:F:453:ASP:N	2.33	0.43
1:F:889:VAL:O	1:F:893:GLN:HG3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1050:TRP:HA	1:F:1050:TRP:HE3	1.82	0.43
1:F:1507:LEU:HA	1:F:1507:LEU:HD23	1.84	0.43
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.53	0.43
2:G:48:LEU:H	2:G:48:LEU:HG	1.55	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.48	0.43
2:G:618:VAL:HG11	2:G:648:ILE:HD11	2.00	0.43
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	2.00	0.43
2:H:130:THR:HG23	2:H:546:ASP:HB3	1.99	0.43
2:H:595:SER:HB2	2:H:600:VAL:O	2.18	0.43
2:H:611:THR:HG22	2:H:1051:GLU:OE2	2.18	0.43
2:I:221:TYR:N	2:I:222:PRO:HD3	2.33	0.43
2:I:256:VAL:O	2:I:260:HIS:HD2	2.00	0.43
2:I:594:MET:SD	2:I:809:GLY:HA3	2.58	0.43
2:I:890:LYS:HB2	2:I:890:LYS:HE3	1.80	0.43
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.43
2:I:1507:VAL:HG23	2:I:1530:TYR:HE2	1.82	0.43
2:I:1551:ILE:HG22	2:I:1552:GLU:N	2.32	0.43
2:I:1587:TYR:O	2:I:1588:ASN:C	2.56	0.43
2:I:1752:PRO:O	2:I:1756:ILE:HG23	2.18	0.43
2:I:1768:THR:O	2:I:1776:LYS:HB2	2.17	0.43
2:I:2044:THR:HG21	2:I:2054:TYR:OH	2.18	0.43
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.48	0.43
2:J:24:LEU:CD1	2:J:37:VAL:HG21	2.48	0.43
2:J:821:GLU:OE2	2:J:1083:ILE:HG13	2.18	0.43
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.17	0.43
2:J:1725:HIS:CD2	2:J:1854:GLU:HB2	2.53	0.43
2:J:2009:PHE:C	2:J:2009:PHE:CD2	2.90	0.43
2:J:2050:ILE:O	2:J:2050:ILE:HG12	2.18	0.43
2:K:221:TYR:N	2:K:222:PRO:HD3	2.33	0.43
2:K:272:PRO:HG2	2:K:300:THR:O	2.18	0.43
2:K:416:GLN:C	2:K:418:ARG:H	2.22	0.43
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.16	0.43
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.48	0.43
2:K:1342:PHE:CE2	2:K:1391:VAL:CG2	2.99	0.43
2:K:1750:GLY:N	2:K:1754:GLY:HA3	2.32	0.43
2:K:1982:ALA:C	2:K:1984:PRO:HD3	2.37	0.43
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.47	0.43
2:L:882:LYS:HD3	2:L:898:ARG:CZ	2.48	0.43
2:L:1067:LEU:CB	4:L:2101:FMN:HM82	2.48	0.43
2:L:1194:ARG:HH21	2:L:1601:ASN:CG	2.21	0.43
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1551:ILE:HG22	2:L:1552:GLU:N	2.32	0.43
2:L:1886:VAL:HG22	2:L:1995:THR:HG22	1.99	0.43
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.44	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.16	0.43
1:A:1102:ILE:HD13	1:A:1106:LEU:CD2	2.48	0.43
1:A:1126:LYS:O	1:A:1127:VAL:HG23	2.19	0.43
1:A:1275:THR:HA	1:A:1276:PRO:HD3	1.57	0.43
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.99	0.43
1:B:883:LEU:N	1:B:883:LEU:HD23	2.33	0.43
1:B:1031:MET:HB3	1:B:1031:MET:HE2	1.67	0.43
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	2.00	0.43
1:B:1623:THR:HG22	1:B:1633:GLN:HB2	2.00	0.43
1:B:1674:ILE:CD1	2:H:1011:GLN:HG3	2.41	0.43
1:C:12:THR:HG21	2:I:2066:LYS:HD3	1.99	0.43
1:C:29:ILE:HG13	2:I:1920:TYR:O	2.18	0.43
1:C:414:TYR:C	1:C:414:TYR:CD2	2.91	0.43
1:C:1063:ASP:O	1:C:1064:VAL:C	2.56	0.43
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.52	0.43
1:C:1480:ARG:NH2	1:F:1488:SER:HB2	2.34	0.43
1:D:11:TYR:CG	2:J:2027:LYS:HG2	2.53	0.43
1:D:50:SER:HB2	1:D:52:THR:HG23	2.00	0.43
1:D:414:TYR:CE2	1:D:418:ILE:CD1	3.01	0.43
1:D:916:THR:HA	1:D:919:ARG:HB2	2.00	0.43
1:D:1084:GLU:CD	1:D:1084:GLU:H	2.22	0.43
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.98	0.43
1:E:1219:GLY:CA	1:E:1272:PRO:HD2	2.48	0.43
1:F:492:ILE:H	1:F:492:ILE:HG13	1.51	0.43
1:F:498:THR:CG2	1:F:858:LEU:HA	2.43	0.43
1:F:1005:TRP:HE1	1:F:1561:LEU:CD2	2.31	0.43
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	2.00	0.43
2:G:664:TYR:C	2:G:666:ASN:H	2.22	0.43
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.18	0.43
2:G:1289:TYR:CD2	2:G:1370:LEU:HD23	2.53	0.43
2:G:1643:VAL:HG13	2:G:1649:ILE:HD11	2.00	0.43
2:G:1966:ARG:HG3	2:G:1967:ALA:N	2.33	0.43
2:H:279:PHE:HB2	2:H:467:ILE:HD12	2.00	0.43
2:H:594:MET:HB3	2:H:808:ASP:O	2.18	0.43
2:H:790:PRO:HA	2:H:795:SER:OG	2.18	0.43
2:H:1026:LYS:HG2	2:H:1027:PRO:HD2	2.00	0.43
2:H:1067:LEU:CB	4:H:2101:FMN:HM82	2.49	0.43
2:H:1769:VAL:HG22	2:H:1775:ILE:CA	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1951:ILE:HD12	2:H:1951:ILE:H	1.83	0.43
2:H:2021:LEU:HD22	2:H:2025:ILE:HD11	2.00	0.43
2:I:545:ILE:HG22	2:I:555:LYS:HD3	2.00	0.43
2:I:613:VAL:N	2:I:614:PRO:HD3	2.32	0.43
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.81	0.43
2:I:1342:PHE:HE2	2:I:1391:VAL:HB	1.83	0.43
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	2.00	0.43
2:I:1810:LEU:HD23	2:I:1810:LEU:HA	1.89	0.43
2:J:44:GLN:O	2:J:48:LEU:HG	2.18	0.43
2:J:929:MET:HE1	2:J:934:VAL:HG22	2.00	0.43
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	2.18	0.43
2:J:1602:LEU:HB3	2:J:1604:GLY:H	1.83	0.43
2:J:1706:MET:HE2	2:J:1738:VAL:CG1	2.48	0.43
2:J:1851:MET:HB3	2:J:1851:MET:HE3	1.86	0.43
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.98	0.43
2:K:138:ARG:HB3	2:K:192:THR:HG23	2.00	0.43
2:K:437:ALA:HA	2:K:438:PRO:HD3	1.80	0.43
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.43
2:K:1293:TRP:CE2	2:K:1354:TRP:HZ2	2.36	0.43
2:K:1644:LEU:HB3	2:K:1645:PRO:CD	2.47	0.43
2:K:1873:ARG:NH1	2:K:2002:ASP:CB	2.81	0.43
2:K:2073:ASN:O	2:K:2076:LYS:N	2.51	0.43
2:L:790:PRO:HA	2:L:795:SER:OG	2.18	0.43
2:L:1359:LYS:O	2:L:1362:PHE:HD1	2.01	0.43
2:L:1574:PRO:HD3	2:L:1611:TYR:HE2	1.82	0.43
2:L:1590:ILE:O	2:L:1597:SER:HB3	2.17	0.43
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.52	0.43
1:A:27:ARG:H	1:A:27:ARG:HG2	1.38	0.43
1:A:81:TYR:HD1	2:G:1821:MET:HE3	1.84	0.43
1:B:340:LEU:HD12	1:E:347:LEU:HD12	2.00	0.43
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.34	0.43
1:B:409:ASP:HB2	1:B:439:ARG:HH12	1.83	0.43
1:B:498:THR:CG2	1:B:858:LEU:HA	2.43	0.43
1:B:533:SER:O	1:B:611:THR:HG22	2.18	0.43
1:B:632:LEU:O	1:B:633:THR:C	2.56	0.43
1:B:1063:ASP:O	1:B:1064:VAL:C	2.55	0.43
1:B:1157:ASP:O	1:B:1327:ALA:HB3	2.17	0.43
1:D:546:ARG:HH21	1:D:583:GLN:HG2	1.83	0.43
1:D:626:TRP:CD2	1:D:898:PHE:CD1	3.07	0.43
1:D:989:ASN:H	1:D:1491:ASN:ND2	2.03	0.43
1:D:1470:ARG:HD3	1:D:1470:ARG:HA	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1599:MET:HA	1:D:1602:PHE:HD2	1.84	0.43
1:E:427:ARG:HH11	1:E:492:ILE:HG12	1.82	0.43
1:E:533:SER:HB2	1:E:612:ILE:HB	1.99	0.43
1:E:533:SER:HB2	1:E:612:ILE:H	1.83	0.43
1:E:667:ALA:O	1:E:671:GLN:HG3	2.18	0.43
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.47	0.43
1:F:1218:VAL:O	1:F:1271:GLY:HA3	2.18	0.43
1:F:1495:ARG:O	1:F:1496:ARG:HB3	2.19	0.43
2:G:60:THR:HG22	2:G:62:GLU:HG3	2.00	0.43
2:G:465:LEU:HB2	2:G:479:ARG:CG	2.48	0.43
2:G:481:LEU:C	2:G:483:ASP:H	2.22	0.43
2:G:718:PRO:HG2	2:G:741:LEU:HD11	1.99	0.43
2:G:883:ILE:HG22	2:G:884:PHE:CD2	2.54	0.43
2:G:1102:LEU:HD23	2:G:1102:LEU:HA	1.78	0.43
2:H:196:PHE:N	2:H:196:PHE:CD2	2.85	0.43
2:H:506:VAL:O	2:H:506:VAL:CG1	2.63	0.43
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	2.18	0.43
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.26	0.43
2:H:1588:ASN:HA	2:H:1589:PRO:HD3	1.88	0.43
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.53	0.43
2:I:196:PHE:N	2:I:196:PHE:CD2	2.86	0.43
2:I:511:THR:O	2:I:512:HIS:CD2	2.71	0.43
2:I:608:MET:H	2:I:612:THR:CB	2.28	0.43
2:I:670:MET:HB3	2:I:670:MET:HE2	1.71	0.43
2:I:1179:GLU:OE1	2:I:1179:GLU:N	2.47	0.43
2:I:1366:ILE:HG22	2:I:1366:ILE:O	2.19	0.43
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.17	0.43
2:I:2009:PHE:HD2	2:I:2009:PHE:O	2.00	0.43
2:J:196:PHE:HD2	2:J:196:PHE:N	2.15	0.43
2:J:290:VAL:HG11	2:J:315:LEU:CD1	2.48	0.43
2:J:481:LEU:C	2:J:483:ASP:H	2.22	0.43
2:J:743:TRP:CZ2	2:J:757:PHE:HA	2.50	0.43
2:J:1175:MET:SD	2:J:1274:ILE:HD13	2.58	0.43
2:J:1769:VAL:HG22	2:J:1775:ILE:CA	2.38	0.43
2:K:45:ALA:HB2	2:K:101:VAL:HG22	2.01	0.43
2:K:134:ILE:HG13	2:K:545:ILE:CD1	2.48	0.43
2:K:245:SER:HA	2:K:436:THR:OG1	2.19	0.43
2:K:821:GLU:HB2	2:K:1083:ILE:HD11	1.99	0.43
2:K:1346:MET:HE2	2:K:1346:MET:HB3	1.78	0.43
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.48	0.43
2:K:1709:TYR:HE2	2:K:1716:LYS:HE2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1721:ARG:NH1	2:K:1854:GLU:OE2	2.51	0.43
2:L:676:LEU:HD13	2:L:676:LEU:C	2.39	0.43
2:L:1351:VAL:CG1	2:L:1352:VAL:N	2.81	0.43
2:L:1951:ILE:H	2:L:1951:ILE:HD12	1.83	0.43
1:A:79:LEU:HD12	1:A:88:ILE:HD13	2.00	0.43
1:A:379:HIS:HE1	1:F:387:ILE:HD13	1.83	0.43
1:A:491:SER:O	1:A:493:PRO:HD3	2.19	0.43
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.53	0.43
1:B:4:GLU:H	1:B:4:GLU:HG3	1.54	0.43
1:B:498:THR:HG22	1:B:508:TYR:CD1	2.53	0.43
1:B:673:LEU:HD21	1:B:884:MET:HE1	1.99	0.43
1:B:716:GLN:NE2	1:B:747:ALA:HB3	2.32	0.43
1:B:828:TRP:NE1	1:B:838:THR:HA	2.34	0.43
1:B:996:VAL:HG11	1:B:1578:LEU:HD11	2.00	0.43
1:B:1697:LEU:O	1:D:1405:ARG:HA	2.18	0.43
1:C:1258:MET:HG2	1:C:1307:PHE:CZ	2.53	0.43
1:D:418:ILE:O	1:D:418:ILE:HG22	2.18	0.43
1:D:883:LEU:N	1:D:883:LEU:HD23	2.33	0.43
1:D:956:ILE:HA	2:J:977:PRO:HA	2.00	0.43
1:D:967:PHE:CE2	1:D:1662:GLN:CB	3.01	0.43
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.47	0.43
1:D:1303:LEU:HD23	1:D:1303:LEU:HA	1.61	0.43
1:E:792:THR:O	2:H:1750:GLY:HA3	2.19	0.43
1:E:883:LEU:N	1:E:883:LEU:HD23	2.32	0.43
1:E:1094:LYS:HE3	1:E:1316:TYR:CG	2.52	0.43
1:E:1363:MET:HE2	1:E:1363:MET:HB2	1.74	0.43
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.48	0.43
1:F:662:ALA:HA	1:F:694:TYR:CZ	2.54	0.43
2:G:350:MET:HG3	2:G:435:ILE:CB	2.48	0.43
2:G:719:GLY:O	2:G:755:GLU:HG3	2.18	0.43
2:G:838:VAL:HG12	2:G:839:ASP:N	2.33	0.43
2:G:846:THR:HG22	2:G:855:ILE:C	2.38	0.43
2:G:990:TYR:N	2:G:991:PRO:CD	2.81	0.43
2:G:1067:LEU:CB	4:G:2101:FMN:HM82	2.49	0.43
2:G:1411:LYS:HB2	2:G:1439:TYR:CD1	2.53	0.43
2:G:1635:TYR:CE2	2:G:1637:VAL:HG23	2.53	0.43
2:H:43:PHE:CB	2:I:22:ARG:HE	2.30	0.43
2:H:827:GLN:O	2:H:830:GLN:HB3	2.18	0.43
2:H:1366:ILE:HG22	2:H:1366:ILE:O	2.18	0.43
2:I:618:VAL:CG1	2:I:648:ILE:HD11	2.48	0.43
2:I:690:LEU:HB2	2:I:711:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:716:PHE:HD1	2:I:727:VAL:CG1	2.31	0.43
2:I:930:THR:CG2	2:I:933:GLU:H	2.26	0.43
2:I:1517:LEU:CG	2:I:1523:ILE:HD11	2.48	0.43
2:I:1726:PHE:CE1	2:I:1857:VAL:HB	2.53	0.43
2:I:1969:LEU:HA	2:I:1972:ILE:HD12	1.99	0.43
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.06	0.43
2:J:381:SER:OG	2:J:392:THR:HG23	2.18	0.43
2:J:580:LEU:HG	2:J:1098:LEU:HD23	2.01	0.43
2:J:589:PHE:CD1	2:J:1116:PHE:CD2	3.06	0.43
2:J:907:ASN:HA	2:J:913:VAL:HG13	1.99	0.43
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.73	0.43
2:J:1050:SER:HA	2:J:1064:THR:HG21	2.01	0.43
2:K:174:GLY:H	2:K:517:GLY:CA	2.30	0.43
2:K:205:ALA:O	2:K:209:GLN:HG3	2.18	0.43
2:K:221:TYR:HA	2:K:242:TYR:OH	2.18	0.43
2:K:726:GLN:O	2:K:730:ILE:HG12	2.18	0.43
2:K:1047:LEU:HD11	3:K:2102:NAP:O1N	2.18	0.43
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.18	0.43
2:K:1324:PHE:HA	2:K:1583:VAL:HG11	2.00	0.43
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.18	0.43
2:K:1706:MET:HE2	2:K:1738:VAL:HG11	2.00	0.43
2:L:828:ALA:O	2:L:832:ILE:HG13	2.18	0.43
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.70	0.43
2:L:1133:LEU:HD12	2:L:1146:LEU:HD21	2.00	0.43
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.33	0.43
2:L:1610:MET:HE2	2:L:1610:MET:CA	2.33	0.43
2:L:1637:VAL:CG1	2:L:1679:LEU:HD13	2.34	0.43
2:L:1985:GLN:C	2:L:1987:VAL:N	2.69	0.43
1:A:16:GLU:OE2	2:G:2066:LYS:HD2	2.18	0.43
1:A:352:ARG:HE	1:A:352:ARG:HB2	1.62	0.43
1:A:614:PHE:O	1:A:615:LEU:HD23	2.18	0.43
1:A:767:HIS:NE2	1:A:771:LEU:HD22	2.33	0.43
1:A:960:ARG:HH11	2:G:968:GLU:HB3	1.84	0.43
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.17	0.43
1:A:1554:LEU:HD23	1:A:1606:VAL:HG12	2.00	0.43
1:B:1050:TRP:HA	1:B:1050:TRP:HE3	1.84	0.43
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.47	0.43
1:B:1301:VAL:HG23	1:B:1363:MET:HG3	2.01	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.01	0.43
1:C:50:SER:HB2	1:C:52:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:TRP:HB3	1:D:375:TRP:CD2	2.54	0.43
1:C:413:MET:O	1:C:416:ASP:HB2	2.17	0.43
1:C:940:ASN:HB3	1:C:949:GLU:OE2	2.19	0.43
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	2.00	0.43
1:D:452:ILE:CD1	1:D:467:LYS:HA	2.48	0.43
1:D:472:GLN:HE21	1:D:472:GLN:HA	1.83	0.43
1:D:741:ASP:CG	1:D:793:ARG:HH11	2.21	0.43
1:D:1078:ILE:HG23	1:D:1352:MET:CE	2.48	0.43
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.34	0.43
1:E:564:LEU:O	1:E:567:ASN:HB2	2.18	0.43
1:E:869:ARG:O	1:E:903:GLY:HA3	2.17	0.43
1:E:1617:ILE:N	1:E:1617:ILE:CD1	2.78	0.43
1:F:667:ALA:O	1:F:670:LEU:HB3	2.19	0.43
1:F:1162:GLY:O	1:F:1354:SER:HA	2.18	0.43
2:G:330:SER:N	2:H:1331:THR:HG22	2.33	0.43
2:G:670:MET:HE2	2:G:674:ILE:HD11	2.00	0.43
2:G:876:TRP:C	2:G:876:TRP:HD1	2.21	0.43
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.43
2:G:1351:VAL:CG1	2:G:1352:VAL:N	2.81	0.43
2:G:1491:ARG:O	2:G:1492:LEU:HD23	2.19	0.43
2:G:1701:GLU:N	2:G:1704:MET:HE3	2.33	0.43
2:G:2009:PHE:C	2:G:2009:PHE:CD2	2.92	0.43
2:H:123:ALA:O	2:H:126:VAL:HG23	2.18	0.43
2:H:349:PRO:O	2:H:392:THR:HA	2.19	0.43
2:H:763:LEU:HD12	2:H:763:LEU:HA	1.86	0.43
2:H:1873:ARG:NH1	2:H:2002:ASP:CB	2.81	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.86	0.43
2:I:317:TRP:CD1	2:I:454:ASP:CG	2.92	0.43
2:I:1002:GLU:C	2:I:1004:SER:H	2.22	0.43
2:I:1019:LEU:HA	2:I:1022:ARG:HD2	1.99	0.43
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.99	0.43
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	2.00	0.43
2:I:1356:ALA:HB3	2:I:1397:THR:CG2	2.47	0.43
2:I:1481:ILE:HD12	2:I:1515:LEU:CD2	2.49	0.43
2:J:77:ALA:O	2:J:139:ALA:HB1	2.19	0.43
2:J:460:ILE:O	2:J:486:ILE:N	2.50	0.43
2:J:521:VAL:O	2:J:521:VAL:HG12	2.18	0.43
2:J:613:VAL:H	2:J:614:PRO:HD3	1.83	0.43
2:J:712:ARG:O	2:J:738:PRO:HG2	2.19	0.43
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.18	0.43
2:J:1472:TRP:CD2	2:J:1540:VAL:HG22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1919:ASN:HD22	2:J:1919:ASN:HA	1.59	0.43
2:J:1982:ALA:C	2:J:1984:PRO:HD3	2.39	0.43
2:K:352:SER:HB2	2:K:433:LEU:HD11	2.01	0.43
2:K:615:TRP:HB3	2:K:644:ALA:HB1	1.99	0.43
2:K:737:PHE:O	2:K:773:ASN:HB3	2.19	0.43
2:K:819:ALA:HA	2:K:1081:GLU:O	2.18	0.43
2:K:858:LEU:CD2	2:K:864:PRO:HA	2.48	0.43
2:K:890:LYS:HB2	2:K:890:LYS:HE3	1.81	0.43
2:K:937:ARG:CZ	2:K:941:LEU:HD11	2.48	0.43
2:K:1115:TYR:CE2	2:K:1174:ALA:HB2	2.54	0.43
2:K:1938:THR:HG22	2:K:1977:ARG:HA	2.01	0.43
2:L:481:LEU:C	2:L:483:ASP:H	2.22	0.43
2:L:611:THR:HG22	2:L:1051:GLU:OE2	2.19	0.43
2:L:664:TYR:C	2:L:666:ASN:H	2.21	0.43
1:A:1522:PHE:HB2	1:A:1557:PHE:CD1	2.53	0.43
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.18	0.43
1:C:491:SER:O	1:C:493:PRO:HD3	2.18	0.43
1:C:543:ASN:O	1:C:546:ARG:HB2	2.18	0.43
1:C:828:TRP:NE1	1:C:838:THR:HA	2.33	0.43
1:C:1495:ARG:O	1:C:1496:ARG:HB3	2.18	0.43
1:D:553:ARG:NH2	1:D:567:ASN:HD21	2.16	0.43
1:D:782:LYS:HZ3	1:D:786:LYS:HD2	1.82	0.43
1:E:881:LEU:HA	1:E:884:MET:CG	2.38	0.43
1:E:888:ILE:HA	1:E:891:LEU:HD12	2.00	0.43
1:E:960:ARG:HB3	2:K:969:ARG:HH12	1.82	0.43
1:E:1217:GLU:O	1:E:1299:ALA:HB1	2.19	0.43
1:E:1451:LYS:HG2	1:E:1454:ARG:HH22	1.83	0.43
1:E:1501:ALA:O	1:E:1504:ARG:HB2	2.19	0.43
1:F:382:ILE:H	1:F:382:ILE:HG13	1.61	0.43
1:F:408:GLN:HE22	1:F:1609:SER:H	1.66	0.43
1:F:538:ARG:CA	1:F:585:MET:HE1	2.40	0.43
1:F:1686:PRO:HB2	1:F:1713:PHE:CD1	2.54	0.43
2:G:182:TYR:CD1	2:G:183:PHE:N	2.87	0.43
2:G:318:ILE:HA	2:G:451:ILE:HD13	2.00	0.43
2:G:461:PRO:HD2	2:G:464:SER:OG	2.19	0.43
2:G:635:TYR:CD2	2:G:641:MET:HG3	2.52	0.43
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.18	0.43
2:G:1624:ALA:CB	2:G:1665:ILE:HD13	2.49	0.43
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.81	0.43
2:G:1920:TYR:HD2	2:G:1927:TYR:HE2	1.65	0.43
2:H:60:THR:HG22	2:H:62:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:560:ASP:HB3	2:H:565:ALA:HB1	2.00	0.43
2:H:821:GLU:HB2	2:H:1083:ILE:HD11	2.00	0.43
2:H:955:LEU:HD21	2:H:1026:LYS:O	2.18	0.43
2:H:1113:ILE:HG22	2:H:1114:GLU:N	2.34	0.43
2:H:1709:TYR:HE2	2:H:1716:LYS:HE2	1.84	0.43
2:H:1769:VAL:HG13	2:H:1774:SER:O	2.18	0.43
2:I:95:HIS:CB	2:I:96:PRO:HD3	2.49	0.43
2:I:601:PRO:HB2	2:I:626:TYR:CE2	2.53	0.43
2:I:796:TRP:CG	2:I:797:SER:N	2.86	0.43
2:I:1114:GLU:HB3	2:I:1169:TYR:CB	2.48	0.43
2:I:1175:MET:SD	2:I:1274:ILE:HD13	2.59	0.43
2:I:1238:GLY:O	2:I:1239:ASP:HB2	2.19	0.43
2:I:1465:ALA:O	2:I:1469:SER:HB3	2.19	0.43
2:I:1982:ALA:C	2:I:1984:PRO:HD3	2.39	0.43
2:I:2052:LYS:H	2:I:2052:LYS:HG2	1.44	0.43
2:J:80:ILE:HG12	2:J:105:ILE:HG22	2.01	0.43
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.18	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.73	0.43
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.81	0.43
2:L:797:SER:O	2:L:802:TYR:HB2	2.19	0.43
2:L:1142:ILE:HG13	2:L:1209:PRO:HG2	2.00	0.43
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.18	0.43
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.18	0.43
2:L:1356:ALA:HB3	2:L:1397:THR:CG2	2.47	0.43
2:L:1637:VAL:HG12	2:L:1679:LEU:HD22	2.01	0.43
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.99	0.43
2:L:1945:ILE:O	2:L:1949:GLN:HB2	2.19	0.43
2:L:1961:SER:O	2:L:1965:VAL:HG22	2.18	0.43
2:L:1982:ALA:C	2:L:1984:PRO:HD3	2.38	0.43
1:A:556:HIS:HA	1:A:563:GLN:HE22	1.83	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.59	0.43
1:A:756:ILE:HG22	1:F:827:ARG:NH1	2.34	0.43
1:A:844:ILE:HD12	1:A:844:ILE:N	2.34	0.43
1:A:960:ARG:HG3	1:A:960:ARG:NH1	2.34	0.43
1:A:1038:HIS:CE1	1:A:1042:LEU:CD2	3.01	0.43
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.54	0.43
1:B:527:ALA:HB2	1:B:637:LEU:HD22	2.01	0.43
1:B:985:ARG:O	1:B:987:MET:HG2	2.19	0.43
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.48	0.43
1:C:405:TRP:CH2	1:C:1609:SER:HB3	2.54	0.43
1:C:573:VAL:O	1:C:577:LEU:HG	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:PHE:CD2	1:C:899:ALA:N	2.86	0.43
1:C:908:ILE:HA	1:C:909:PRO:HD3	1.87	0.43
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.52	0.43
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.49	0.43
1:C:968:PRO:CD	1:C:1374:PRO:HB3	2.49	0.43
1:C:1148:LEU:CD2	1:F:1150:ILE:HG12	2.49	0.43
1:D:449:GLN:O	1:D:450:TYR:C	2.57	0.43
1:D:557:ARG:HG3	1:D:557:ARG:NH1	2.01	0.43
1:E:46:GLU:HB3	1:E:80:CYS:HA	2.01	0.43
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.43
1:E:1393:VAL:N	1:E:1394:PRO:HD3	2.33	0.43
1:F:11:TYR:CD1	2:L:2027:LYS:HG2	2.54	0.43
1:F:414:TYR:CD2	1:F:414:TYR:C	2.91	0.43
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.43
1:F:620:LYS:HE3	1:F:626:TRP:CZ2	2.54	0.43
1:F:801:LEU:HD13	1:F:822:GLU:HG2	1.99	0.43
1:F:1102:ILE:H	1:F:1102:ILE:HG13	1.66	0.43
1:F:1393:VAL:HB	1:F:1394:PRO:HD3	2.01	0.43
1:F:1648:LYS:O	1:F:1652:GLU:HB2	2.19	0.43
2:G:358:ARG:HB2	2:G:389:PHE:CE2	2.53	0.43
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.53	0.43
2:G:1026:LYS:HG2	2:G:1027:PRO:HD2	2.00	0.43
2:G:1447:GLN:HB3	2:G:1496:VAL:HG13	1.99	0.43
2:H:162:ALA:CA	2:H:167:VAL:HG22	2.48	0.43
2:H:223:LYS:HB3	2:H:242:TYR:CZ	2.54	0.43
2:H:251:PRO:CG	2:H:316:PHE:HA	2.45	0.43
2:H:607:GLY:HA2	2:H:612:THR:HG21	2.00	0.43
2:H:690:LEU:HD22	2:H:691:THR:H	1.82	0.43
2:H:912:LYS:HG2	2:H:1029:PRO:C	2.38	0.43
2:H:1028:VAL:HG13	2:H:1030:PHE:CE2	2.54	0.43
2:H:1265:TYR:HE1	2:H:1267:PRO:HG3	1.76	0.43
2:I:123:ALA:O	2:I:126:VAL:HG23	2.18	0.43
2:I:578:PRO:HG3	2:I:792:LEU:O	2.18	0.43
2:I:690:LEU:HD22	2:I:691:THR:N	2.34	0.43
2:I:1370:LEU:CD1	2:I:1373:LEU:HD13	2.48	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1472:TRP:CE2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1961:SER:O	2:I:1965:VAL:HG22	2.17	0.43
2:J:379:GLY:O	2:J:391:VAL:HG13	2.18	0.43
2:J:472:THR:HG23	2:J:499:VAL:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.83	0.43
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.53	0.43
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.18	0.43
2:J:1903:VAL:HG13	2:J:1942:VAL:HG11	2.01	0.43
2:K:80:ILE:HG12	2:K:105:ILE:CG2	2.49	0.43
2:K:174:GLY:HA2	2:K:524:ILE:HG12	2.01	0.43
2:K:276:LEU:HD21	2:K:296:ALA:HA	2.00	0.43
2:K:349:PRO:O	2:K:392:THR:HA	2.18	0.43
2:K:595:SER:CB	2:K:602:PRO:HG3	2.30	0.43
2:K:740:ILE:HG22	2:K:742:GLN:HG3	2.01	0.43
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.53	0.43
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.53	0.43
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.18	0.43
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	2.00	0.43
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.53	0.43
2:L:256:VAL:O	2:L:260:HIS:HD2	2.01	0.43
2:L:594:MET:SD	2:L:809:GLY:HA3	2.58	0.43
2:L:741:LEU:O	2:L:741:LEU:CG	2.64	0.43
2:L:1553:GLN:HB3	2:L:1554:PRO:CD	2.48	0.43
1:A:88:ILE:HG21	2:G:1821:MET:HE1	2.00	0.43
1:A:1051:VAL:HG13	1:A:1057:GLU:O	2.19	0.43
1:B:746:PHE:CD2	3:B:1901:NAP:H4D	2.53	0.43
1:B:1011:ARG:NH1	1:B:1012:TRP:HA	2.33	0.43
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.66	0.43
1:C:916:THR:HA	1:C:919:ARG:HB2	2.01	0.43
1:C:968:PRO:HG3	1:C:1376:TYR:CE1	2.53	0.43
1:C:985:ARG:O	1:C:987:MET:HG2	2.18	0.43
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.49	0.43
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.52	0.43
1:C:1663:LYS:HE2	2:I:1005:THR:O	2.19	0.43
1:D:452:ILE:HD13	1:D:452:ILE:HA	1.87	0.43
1:D:662:ALA:HA	1:D:694:TYR:CZ	2.53	0.43
1:D:1217:GLU:O	1:D:1299:ALA:HB1	2.19	0.43
1:E:4:GLU:H	1:E:4:GLU:HG3	1.53	0.43
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.31	0.43
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.49	0.43
2:G:310:ARG:HH12	2:G:459:LYS:H	1.67	0.43
2:G:462:ALA:HB3	2:G:483:ASP:HA	2.00	0.43
2:G:610:PRO:HD2	4:G:2101:FMN:C6	2.28	0.43
2:G:1171:TRP:CG	2:G:1172:ARG:N	2.86	0.43
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1248:GLU:HB2	2:G:1596:PHE:CE1	2.54	0.43
2:G:1749:PHE:CD2	2:G:1758:ARG:HB3	2.54	0.43
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.18	0.43
2:G:1961:SER:O	2:G:1965:VAL:HG22	2.19	0.43
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.47	0.43
2:H:196:PHE:HD2	2:H:196:PHE:N	2.16	0.43
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.00	0.43
2:H:1229:VAL:CG1	2:H:1230:LYS:N	2.81	0.43
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.18	0.43
2:H:1920:TYR:HD2	2:H:1927:TYR:HE2	1.66	0.43
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.19	0.43
2:I:22:ARG:HD2	2:I:39:THR:HA	2.00	0.43
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.49	0.43
2:I:1047:LEU:HD12	2:I:1047:LEU:H	1.83	0.43
2:I:1804:GLN:CB	2:I:1861:PHE:HE1	2.32	0.43
2:J:187:ARG:NH2	2:J:234:PRO:HA	2.33	0.43
2:J:256:VAL:O	2:J:260:HIS:HD2	2.01	0.43
2:J:372:LEU:CD1	2:J:397:SER:HB2	2.49	0.43
2:J:382:LEU:HG	2:J:390:VAL:HB	2.00	0.43
2:J:700:GLU:HA	2:J:703:ASN:HB2	2.01	0.43
2:J:1481:ILE:O	2:J:1481:ILE:HG13	2.19	0.43
2:J:1914:LEU:O	2:J:1931:GLY:HA3	2.17	0.43
2:J:1920:TYR:HD2	2:J:1927:TYR:HE2	1.65	0.43
2:J:1945:ILE:HG22	2:J:1946:LEU:N	2.33	0.43
2:J:2039:TYR:CD2	2:J:2039:TYR:C	2.91	0.43
2:K:187:ARG:NH2	2:K:234:PRO:HA	2.33	0.43
2:K:317:TRP:CD1	2:K:454:ASP:OD2	2.72	0.43
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.43
2:K:962:PHE:O	2:K:965:ARG:HB3	2.18	0.43
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.71	0.43
2:K:1237:VAL:O	2:K:1241:GLU:HB2	2.19	0.43
2:K:1383:VAL:CG2	2:K:1428:TYR:HE1	2.30	0.43
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.67	0.43
2:K:1726:PHE:CE1	2:K:1857:VAL:HB	2.54	0.43
2:K:1851:MET:HB3	2:K:1851:MET:HE3	1.83	0.43
2:K:1920:TYR:HD2	2:K:1927:TYR:HE2	1.65	0.43
2:L:36:LEU:HD12	2:L:36:LEU:HA	1.90	0.43
2:L:311:ALA:O	2:L:314:LEU:HB3	2.18	0.43
2:L:838:VAL:HG12	2:L:839:ASP:N	2.33	0.43
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	2.01	0.43
2:L:1248:GLU:OE2	2:L:1250:ARG:NE	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1481:ILE:HD12	2:L:1515:LEU:CD2	2.49	0.43
2:L:2039:TYR:C	2:L:2039:TYR:CD2	2.91	0.43
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.83	0.43
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.81	0.43
1:B:414:TYR:CD2	1:B:414:TYR:C	2.93	0.43
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.87	0.43
1:B:667:ALA:O	1:B:671:GLN:HG3	2.18	0.43
1:B:960:ARG:HH11	1:B:960:ARG:HG3	1.84	0.43
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.92	0.43
1:B:1078:ILE:HG23	1:B:1352:MET:HE3	2.01	0.43
1:B:1191:LEU:HD23	1:B:1191:LEU:HA	1.77	0.43
1:B:1522:PHE:CD2	1:B:1534:GLU:HB3	2.53	0.43
1:C:22:PHE:O	2:I:2006:HIS:HA	2.18	0.43
1:C:401:SER:O	1:C:405:TRP:CD1	2.72	0.43
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.48	0.43
1:C:1488:SER:HB2	1:F:1480:ARG:NH2	2.34	0.43
1:C:1617:ILE:N	1:C:1617:ILE:CD1	2.77	0.43
1:D:27:ARG:H	1:D:27:ARG:HG2	1.42	0.43
1:D:414:TYR:C	1:D:414:TYR:CD2	2.92	0.43
1:D:440:SER:HB3	1:D:481:LEU:CD2	2.40	0.43
1:D:673:LEU:HD21	1:D:884:MET:HE3	2.00	0.43
1:E:1011:ARG:HH11	1:E:1012:TRP:HA	1.83	0.43
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.18	0.43
1:F:756:ILE:HA	1:F:759:ILE:CD1	2.46	0.43
1:F:1525:THR:O	1:F:1526:SER:HB3	2.19	0.43
2:G:441:SER:C	2:G:443:TYR:H	2.22	0.43
2:G:490:LEU:HD23	2:G:493:MET:SD	2.59	0.43
2:G:501:TRP:CD1	2:G:501:TRP:C	2.89	0.43
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.19	0.43
2:G:1551:ILE:CG2	2:G:1552:GLU:HG3	2.49	0.43
2:G:1851:MET:CE	2:G:2025:ILE:HG12	2.48	0.43
2:G:2031:ASP:C	2:G:2033:SER:N	2.72	0.43
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.54	0.43
2:H:45:ALA:HB2	2:H:101:VAL:HG22	1.99	0.43
2:H:501:TRP:CZ2	2:H:524:ILE:HG21	2.53	0.43
2:I:60:THR:HG22	2:I:62:GLU:H	1.84	0.43
2:I:193:TYR:HD1	2:I:263:ILE:HD13	1.81	0.43
2:I:358:ARG:HB2	2:I:389:PHE:CE2	2.54	0.43
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.33	0.43
2:I:1083:ILE:HG13	2:I:1083:ILE:H	1.51	0.43
2:I:1269:ALA:HB1	2:I:1271:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1337:ASP:HB2	2:I:1342:PHE:CD1	2.54	0.43
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.18	0.43
2:J:705:TYR:HA	2:J:709:LEU:HD21	2.00	0.43
2:J:950:TRP:CE2	2:J:956:LYS:HG3	2.53	0.43
2:J:1133:LEU:HD12	2:J:1146:LEU:HD21	2.00	0.43
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.19	0.43
2:K:41:LEU:HD13	2:K:100:GLU:HB3	2.01	0.43
2:K:350:MET:SD	2:K:392:THR:CG2	3.07	0.43
2:K:1067:LEU:O	2:K:1068:GLN:HG2	2.18	0.43
2:K:1067:LEU:CB	4:K:2101:FMN:HM82	2.49	0.43
2:K:1175:MET:SD	2:K:1274:ILE:HD13	2.59	0.43
2:L:187:ARG:HH22	2:L:234:PRO:HA	1.84	0.43
2:L:350:MET:SD	2:L:392:THR:CG2	3.07	0.43
2:L:476:GLN:H	2:L:476:GLN:HG2	1.71	0.43
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.82	0.43
2:L:946:HIS:CE1	2:L:947:GLU:HG3	2.54	0.43
2:L:1067:LEU:HB3	4:L:2101:FMN:HM82	2.01	0.43
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.01	0.43
1:B:427:ARG:HD2	1:B:490:VAL:HG12	2.01	0.43
1:B:445:LEU:O	1:B:448:MET:HB2	2.19	0.43
1:B:1154:LEU:HA	1:B:1154:LEU:HD23	1.73	0.43
1:B:1579:GLN:O	1:B:1583:THR:HG23	2.18	0.43
1:B:1584:GLY:HA2	1:B:1617:ILE:HD12	1.99	0.43
1:C:28:TRP:HE1	1:C:32:GLN:NE2	2.16	0.43
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.83	0.43
1:C:526:MET:CE	1:C:615:LEU:HG	2.49	0.43
1:C:1274:LYS:HG2	1:F:1289:VAL:CG2	2.49	0.43
1:D:8:GLU:HG2	2:J:2027:LYS:HD3	2.01	0.43
1:D:876:MET:HE3	1:D:876:MET:O	2.19	0.43
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	2.01	0.43
1:F:746:PHE:CD1	1:F:800:PRO:HG3	2.53	0.43
1:F:759:ILE:N	1:F:759:ILE:HD12	2.33	0.43
1:F:1338:GLY:C	1:F:1340:MET:N	2.72	0.43
2:G:31:LEU:HB2	2:G:72:VAL:HG22	2.00	0.43
2:G:44:GLN:O	2:G:48:LEU:HG	2.19	0.43
2:G:245:SER:HA	2:G:436:THR:OG1	2.19	0.43
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.76	0.43
2:G:1637:VAL:HG12	2:G:1679:LEU:HD22	2.00	0.43
2:G:1948:MET:HG2	2:G:1993:PHE:CZ	2.54	0.43
2:H:226:ASP:OD2	2:H:229:GLN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:511:THR:C	2:H:512:HIS:CD2	2.92	0.43
2:H:616:ASP:OD2	2:H:823:HIS:NE2	2.52	0.43
2:H:726:GLN:O	2:H:730:ILE:HG12	2.18	0.43
2:H:821:GLU:OE2	2:H:1083:ILE:HG13	2.18	0.43
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.48	0.43
2:H:2058:VAL:O	2:H:2062:THR:HB	2.18	0.43
2:I:388:ASN:C	2:I:388:ASN:ND2	2.72	0.43
2:I:422:THR:HG21	2:I:844:GLU:HG3	2.00	0.43
2:I:465:LEU:HB2	2:I:479:ARG:CG	2.48	0.43
2:I:582:LYS:HA	2:I:587:GLN:O	2.19	0.43
2:I:718:PRO:HG3	2:I:727:VAL:CG2	2.49	0.43
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.18	0.43
2:I:1103:TYR:C	2:I:1104:ASP:OD1	2.57	0.43
2:I:1161:MET:HE1	2:I:1193:LYS:HG2	2.00	0.43
2:I:1551:ILE:CG2	2:I:1552:GLU:HG3	2.48	0.43
2:I:1553:GLN:HB3	2:I:1554:PRO:CD	2.48	0.43
2:J:1009:ASN:HB2	2:J:1012:ASP:OD2	2.19	0.43
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.54	0.43
2:J:1951:ILE:H	2:J:1951:ILE:HD12	1.84	0.43
2:K:174:GLY:HA3	2:K:518:PRO:HD2	2.01	0.43
2:K:357:THR:HG22	2:K:359:SER:H	1.83	0.43
2:K:501:TRP:CZ2	2:K:528:THR:CG2	3.01	0.43
2:K:616:ASP:HB2	2:K:617:PHE:H	1.73	0.43
2:K:765:TYR:CD2	2:K:805:MET:HG2	2.54	0.43
2:K:1344:ALA:N	2:K:1389:LEU:O	2.46	0.43
2:K:1447:GLN:HB3	2:K:1496:VAL:HG13	2.00	0.43
2:L:604:MET:HE1	2:L:777:VAL:HG11	2.00	0.43
2:L:1749:PHE:CD2	2:L:1758:ARG:HB3	2.53	0.43
1:A:709:LEU:HD23	1:A:709:LEU:HA	1.82	0.42
1:A:1686:PRO:HD2	1:A:1687:TYR:CE2	2.54	0.42
1:B:551:LEU:HD11	1:E:565:GLN:HG3	2.01	0.42
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.48	0.42
1:B:756:ILE:HA	1:B:759:ILE:CD1	2.48	0.42
1:B:1703:VAL:HG13	1:B:1712:LYS:O	2.19	0.42
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.00	0.42
1:C:1213:VAL:HG22	1:C:1300:ARG:CZ	2.48	0.42
1:C:1494:TRP:HE1	1:C:1509:THR:HG21	1.84	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.00	0.42
1:D:1057:GLU:HA	1:D:1058:PRO:HD3	1.88	0.42
1:D:1175:VAL:HA	1:D:1176:PRO:HD3	1.80	0.42
1:D:1617:ILE:N	1:D:1617:ILE:CD1	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1652:GLU:O	1:D:1656:VAL:HG23	2.18	0.42
1:E:2:ARG:HB2	1:E:5:VAL:HB	2.01	0.42
1:E:1205:ASP:OD2	1:E:1207:TYR:HB2	2.19	0.42
1:F:1051:VAL:HG13	1:F:1057:GLU:O	2.19	0.42
1:F:1063:ASP:O	1:F:1064:VAL:C	2.56	0.42
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.83	0.42
2:G:41:LEU:HD13	2:G:100:GLU:HB3	2.01	0.42
2:G:560:ASP:HB3	2:G:565:ALA:HB1	2.01	0.42
2:G:717:LYS:HD2	4:G:2101:FMN:O2	2.18	0.42
2:G:785:SER:HB3	2:G:1090:ILE:HG23	2.01	0.42
2:G:818:THR:HA	2:G:829:LYS:HE2	2.01	0.42
2:G:1332:GLY:C	2:G:1334:ALA:H	2.21	0.42
2:G:2009:PHE:C	2:G:2009:PHE:HD2	2.22	0.42
2:H:174:GLY:HA2	2:H:524:ILE:CG1	2.49	0.42
2:H:221:TYR:CD2	2:H:225:LEU:HD22	2.54	0.42
2:H:646:SER:O	2:H:649:GLU:HG2	2.18	0.42
2:H:700:GLU:HA	2:H:703:ASN:HB2	2.01	0.42
2:H:704:GLU:OE1	2:H:704:GLU:HA	2.19	0.42
2:H:754:PHE:N	2:H:754:PHE:CD1	2.87	0.42
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.53	0.42
2:H:1472:TRP:CD2	2:H:1540:VAL:HG22	2.54	0.42
2:H:1662:ARG:NH1	2:H:1684:GLU:OE1	2.52	0.42
2:I:45:ALA:HB2	2:I:101:VAL:HG22	2.00	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.19	0.42
2:I:462:ALA:HB3	2:I:483:ASP:HA	2.00	0.42
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.39	0.42
2:J:462:ALA:HB3	2:J:483:ASP:HA	2.00	0.42
2:J:720:SER:HB3	2:J:723:ALA:HB2	2.00	0.42
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.79	0.42
2:J:1278:MET:HA	2:J:1281:ARG:HB2	2.00	0.42
2:J:1706:MET:HE2	2:J:1738:VAL:HG11	2.01	0.42
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	2.01	0.42
2:K:308:ALA:O	2:K:312:VAL:HG23	2.19	0.42
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.83	0.42
2:K:472:THR:CG2	2:K:499:VAL:HG22	2.49	0.42
2:K:520:GLY:C	2:K:522:SER:H	2.21	0.42
2:K:525:GLY:O	2:K:529:ASN:HB2	2.19	0.42
2:K:585:VAL:O	2:K:585:VAL:HG12	2.18	0.42
2:K:652:ILE:O	2:K:654:PRO:HD3	2.19	0.42
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.18	0.42
2:L:41:LEU:HD13	2:L:100:GLU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.61	0.42
2:L:764:MET:O	2:L:765:TYR:C	2.57	0.42
2:L:1602:LEU:HD12	2:L:1602:LEU:HA	1.78	0.42
2:L:2052:LYS:H	2:L:2052:LYS:HG2	1.42	0.42
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.55	0.42
1:A:974:ASP:O	1:A:979:PRO:HD3	2.20	0.42
1:A:1205:ASP:OD2	1:A:1207:TYR:HB2	2.19	0.42
1:A:1330:GLU:O	1:A:1335:ARG:HB2	2.20	0.42
1:B:352:ARG:HE	1:B:352:ARG:HB2	1.58	0.42
1:B:687:PHE:C	1:B:687:PHE:CD2	2.92	0.42
1:B:890:ASN:OD1	2:K:1755:LYS:HE2	2.19	0.42
1:B:1466:TYR:CE2	1:B:1470:ARG:HG3	2.54	0.42
1:B:1521:SER:HB2	1:B:1577:CYS:SG	2.59	0.42
1:C:27:ARG:H	1:C:27:ARG:HG2	1.40	0.42
1:C:430:VAL:HG12	1:C:434:ILE:HD11	2.00	0.42
1:C:1599:MET:HA	1:C:1602:PHE:HD2	1.83	0.42
1:D:11:TYR:CD1	2:J:2027:LYS:HG2	2.54	0.42
1:D:340:LEU:O	1:D:340:LEU:HD23	2.18	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.18	0.42
1:D:407:ARG:CZ	1:D:1606:VAL:HG23	2.49	0.42
1:D:457:THR:HG22	1:D:464:GLN:HA	2.01	0.42
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.53	0.42
1:D:755:GLU:C	1:D:757:ASP:N	2.72	0.42
1:D:963:LEU:HD23	1:D:1023:GLU:HB3	2.00	0.42
1:D:1522:PHE:CD2	1:D:1534:GLU:HB3	2.54	0.42
1:E:414:TYR:CE2	1:E:418:ILE:CD1	3.02	0.42
1:E:911:LEU:O	1:E:911:LEU:HD12	2.19	0.42
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	2.01	0.42
1:E:1491:ASN:ND2	1:E:1491:ASN:N	2.67	0.42
2:G:174:GLY:HA2	2:G:524:ILE:CG1	2.49	0.42
2:G:646:SER:O	2:G:649:GLU:HG2	2.19	0.42
2:G:1481:ILE:O	2:G:1481:ILE:HG13	2.18	0.42
2:G:1575:ALA:O	2:G:1576:SER:HB3	2.19	0.42
2:G:1734:ILE:O	2:G:1738:VAL:HG23	2.18	0.42
2:G:1740:ASN:O	2:G:1742:PRO:HD3	2.19	0.42
2:H:938:MET:HE1	2:H:959:THR:HA	2.01	0.42
2:H:1009:ASN:HD22	2:H:1009:ASN:HA	1.53	0.42
2:H:1346:MET:CE	2:H:1617:ARG:NH2	2.82	0.42
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.80	0.42
2:I:22:ARG:HG3	2:I:39:THR:HA	2.00	0.42
2:I:468:PRO:HA	2:I:479:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.40	0.42
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.71	0.42
2:I:1236:LEU:HD12	2:I:1241:GLU:O	2.18	0.42
2:I:1418:THR:HG23	2:I:1428:TYR:CE2	2.54	0.42
2:I:1646:ASN:HD22	2:I:1646:ASN:HA	1.69	0.42
2:I:1934:ARG:O	2:I:1938:THR:HG23	2.19	0.42
2:I:1945:ILE:O	2:I:1949:GLN:HB2	2.19	0.42
2:I:1951:ILE:H	2:I:1951:ILE:HD12	1.82	0.42
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	2.02	0.42
2:J:26:LEU:HD23	2:J:49:LYS:HG3	2.01	0.42
2:J:205:ALA:O	2:J:209:GLN:HG3	2.19	0.42
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.01	0.42
2:J:882:LYS:HD3	2:J:898:ARG:CZ	2.49	0.42
2:J:1515:LEU:CB	2:J:1525:VAL:HG21	2.50	0.42
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.50	0.42
2:K:462:ALA:HB3	2:K:483:ASP:H	1.83	0.42
2:K:723:ALA:O	2:K:726:GLN:HB2	2.19	0.42
2:K:1180:VAL:CG1	2:K:1188:GLN:H	2.29	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:H	1.84	0.42
2:K:1658:MET:HB3	2:K:1658:MET:HE3	1.90	0.42
2:K:1795:SER:CB	2:K:1799:LEU:HD12	2.47	0.42
2:L:342:ASN:HB3	2:L:406:ARG:HD3	2.01	0.42
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.99	0.42
2:L:1000:TYR:HA	2:L:1001:PRO:HD2	1.72	0.42
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.01	0.42
2:L:1515:LEU:CB	2:L:1525:VAL:HG21	2.49	0.42
2:L:1560:PRO:O	2:L:1562:PRO:HD3	2.18	0.42
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.49	0.42
1:A:741:ASP:CG	1:A:793:ARG:HH11	2.23	0.42
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.52	0.42
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.32	0.42
1:B:968:PRO:HG3	1:B:1376:TYR:CE1	2.54	0.42
1:B:1674:ILE:HG22	1:B:1675:ASN:OD1	2.19	0.42
1:C:452:ILE:HD13	1:C:452:ILE:HA	1.88	0.42
1:C:547:SER:HA	1:C:550:LYS:HB2	2.01	0.42
1:C:756:ILE:HA	1:C:759:ILE:CD1	2.47	0.42
1:C:1107:GLU:HA	1:C:1108:PRO:HD3	1.72	0.42
1:C:1207:TYR:CE2	1:C:1682:LYS:HD2	2.53	0.42
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.49	0.42
1:D:613:PRO:C	1:D:615:LEU:N	2.72	0.42
1:D:623:PHE:O	1:D:624:GLY:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:904:GLY:C	1:D:906:GLN:H	2.23	0.42
1:E:633:THR:O	1:E:637:LEU:HB2	2.20	0.42
1:F:443:LEU:HD12	1:F:443:LEU:H	1.84	0.42
1:F:612:ILE:HD12	1:F:907:PHE:CZ	2.38	0.42
1:F:1154:LEU:HA	1:F:1154:LEU:HD23	1.72	0.42
2:G:174:GLY:HA3	2:G:518:PRO:HD2	2.02	0.42
2:G:276:LEU:O	2:G:467:ILE:CD1	2.67	0.42
2:G:615:TRP:HB2	2:G:648:ILE:HG13	2.01	0.42
2:G:673:GLN:O	2:G:676:LEU:HB3	2.19	0.42
2:G:1383:VAL:CG2	2:G:1428:TYR:HE1	2.30	0.42
2:G:1766:PHE:HB2	2:G:1780:ILE:HG12	2.02	0.42
2:G:2031:ASP:HB3	2:G:2033:SER:OG	2.19	0.42
2:H:290:VAL:CG1	2:H:314:LEU:HD23	2.48	0.42
2:H:690:LEU:HD22	2:H:691:THR:N	2.33	0.42
2:H:857:VAL:CG1	2:H:876:TRP:CD1	3.02	0.42
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.02	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.19	0.42
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.18	0.42
2:H:1321:VAL:HG12	2:H:1322:ALA:N	2.34	0.42
2:H:1380:TYR:HD2	2:H:1429:VAL:HG22	1.81	0.42
2:H:1470:LYS:HA	2:H:1470:LYS:HD3	1.90	0.42
2:I:472:THR:HG23	2:I:499:VAL:HA	2.02	0.42
2:I:705:TYR:HA	2:I:709:LEU:HD21	2.01	0.42
2:I:723:ALA:O	2:I:726:GLN:HB2	2.19	0.42
2:I:1067:LEU:HB3	4:I:2101:FMN:HM82	2.01	0.42
2:I:1102:LEU:HD23	2:I:1102:LEU:HA	1.83	0.42
2:I:1241:GLU:HA	2:I:1263:PHE:O	2.19	0.42
2:I:1447:GLN:HB3	2:I:1496:VAL:HG13	2.01	0.42
2:I:1594:ARG:NH1	2:I:1595:VAL:HG13	2.34	0.42
2:I:1910:VAL:HG13	2:I:1974:GLN:HE22	1.84	0.42
2:J:317:TRP:CD1	2:J:454:ASP:CG	2.92	0.42
2:J:914:TRP:CD1	2:J:916:GLY:N	2.87	0.42
2:J:1299:VAL:HG22	2:J:1301:PHE:CG	2.54	0.42
2:J:2073:ASN:O	2:J:2076:LYS:N	2.51	0.42
2:K:595:SER:HB3	2:K:602:PRO:HD3	2.00	0.42
2:K:737:PHE:O	2:K:739:ILE:HG13	2.19	0.42
2:K:743:TRP:CZ2	2:K:757:PHE:HA	2.47	0.42
2:K:1084:LYS:O	2:K:1088:ASP:CB	2.66	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.19	0.42
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.50	0.42
2:K:1910:VAL:HG13	2:K:1974:GLN:HE22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:31:LEU:HD13	2:L:75:LEU:HG	2.00	0.42
2:L:1050:SER:HA	2:L:1064:THR:HG21	2.01	0.42
2:L:1113:ILE:HG22	2:L:1114:GLU:N	2.33	0.42
2:L:1400:GLN:HG3	2:L:1448:ARG:HH12	1.83	0.42
2:L:2009:PHE:HD2	2:L:2009:PHE:O	2.02	0.42
1:A:45:VAL:HB	2:G:1692:TYR:HD2	1.84	0.42
1:A:363:GLU:O	1:A:366:LYS:HB2	2.19	0.42
1:A:626:TRP:CE3	1:A:898:PHE:HB2	2.55	0.42
1:A:902:ASN:OD1	1:A:905:LEU:HD12	2.19	0.42
1:A:983:GLN:O	1:A:1418:ILE:HD13	2.19	0.42
1:A:1369:LEU:HD11	1:A:1642:LEU:HD21	2.00	0.42
1:A:1599:MET:HA	1:A:1602:PHE:HD2	1.85	0.42
1:B:336:PHE:HA	1:B:339:GLN:HB2	2.01	0.42
1:B:427:ARG:O	1:B:430:VAL:HB	2.19	0.42
1:B:715:ASN:ND2	3:B:1901:NAP:H62A	2.18	0.42
1:B:767:HIS:NE2	1:B:771:LEU:HD22	2.33	0.42
1:B:1060:ASP:HB2	1:B:1063:ASP:OD2	2.19	0.42
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.54	0.42
1:C:746:PHE:CD2	3:C:1901:NAP:H4D	2.54	0.42
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	2.19	0.42
1:C:1080:LEU:HD23	1:C:1080:LEU:HA	1.84	0.42
1:D:427:ARG:HD2	1:D:490:VAL:HG12	2.00	0.42
1:D:751:GLU:OE1	1:D:770:MET:HE1	2.20	0.42
1:D:1051:VAL:HG13	1:D:1057:GLU:O	2.18	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.00	0.42
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.00	0.42
1:E:1321:MET:HE2	1:E:1321:MET:HB3	1.87	0.42
1:E:1527:THR:OG1	1:E:1530:ASN:HB3	2.20	0.42
1:E:1623:THR:CG2	1:E:1633:GLN:HB2	2.48	0.42
1:F:1674:ILE:HD12	2:L:1010:ALA:CB	2.48	0.42
2:G:416:GLN:C	2:G:418:ARG:H	2.22	0.42
2:G:511:THR:O	2:G:512:HIS:CD2	2.72	0.42
2:G:595:SER:HB3	2:G:602:PRO:HD3	2.00	0.42
2:G:785:SER:O	2:G:789:TYR:HB2	2.20	0.42
2:G:1346:MET:CE	2:G:1617:ARG:HH21	2.33	0.42
2:G:1639:MET:HE3	2:G:1639:MET:HB3	1.86	0.42
2:G:2058:VAL:O	2:G:2062:THR:HB	2.19	0.42
2:H:173:PHE:CE2	2:H:516:PHE:HB2	2.53	0.42
2:H:378:ILE:HG22	2:H:378:ILE:O	2.19	0.42
2:H:1358:THR:O	2:H:1361:ILE:HG13	2.20	0.42
2:H:1359:LYS:O	2:H:1362:PHE:HD1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:226:ASP:OD2	2:I:229:GLN:HB2	2.19	0.42
2:I:416:GLN:HE22	2:I:425:LYS:H	1.67	0.42
2:I:534:GLY:O	2:I:571:ASP:HA	2.19	0.42
2:I:611:THR:HG21	2:I:817:MET:CE	2.49	0.42
2:I:916:GLY:O	2:I:924:VAL:HG23	2.19	0.42
2:I:1289:TYR:CD2	2:I:1370:LEU:HD23	2.52	0.42
2:I:1337:ASP:CA	2:I:1342:PHE:HD1	2.33	0.42
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.01	0.42
2:I:1886:VAL:CG1	2:I:1900:LEU:HD11	2.50	0.42
2:J:433:LEU:HA	2:J:434:PRO:HD3	1.81	0.42
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.53	0.42
2:J:1389:LEU:N	2:J:1389:LEU:HD23	2.34	0.42
2:J:2058:VAL:O	2:J:2062:THR:HB	2.19	0.42
2:K:60:THR:HG22	2:K:62:GLU:H	1.84	0.42
2:K:615:TRP:HB2	2:K:648:ILE:HG13	2.01	0.42
2:K:887:ASP:O	2:K:888:ARG:C	2.57	0.42
2:K:1026:LYS:HG2	2:K:1027:PRO:HD2	2.01	0.42
2:K:1114:GLU:HB3	2:K:1169:TYR:CB	2.46	0.42
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.42
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.49	0.42
2:L:196:PHE:CD1	2:L:266:LYS:HB3	2.54	0.42
2:L:420:PRO:HG3	2:L:847:TYR:CE1	2.55	0.42
2:L:685:VAL:HG13	2:L:686:PRO:HD2	2.01	0.42
2:L:709:LEU:HD23	2:L:709:LEU:N	2.29	0.42
2:L:1009:ASN:HD22	2:L:1009:ASN:HA	1.56	0.42
2:L:1769:VAL:HG13	2:L:1774:SER:C	2.39	0.42
1:A:49:PRO:HG2	2:G:1810:LEU:HD21	2.02	0.42
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.49	0.42
1:A:1495:ARG:O	1:A:1496:ARG:HB3	2.18	0.42
1:A:1574:LEU:HA	1:A:1574:LEU:HD12	1.86	0.42
1:B:93:GLU:HA	1:B:94:PRO:HD3	1.82	0.42
1:B:337:LYS:O	1:B:341:GLU:HG2	2.20	0.42
1:B:546:ARG:HH11	1:B:631:LYS:NZ	2.14	0.42
1:B:662:ALA:HA	1:B:694:TYR:OH	2.20	0.42
1:B:1167:GLY:O	1:B:1172:ARG:NH1	2.53	0.42
1:C:584:ILE:H	1:C:584:ILE:HG12	1.67	0.42
1:C:848:ARG:HG2	1:C:871:PHE:O	2.19	0.42
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.19	0.42
1:C:1480:ARG:HH21	1:F:1488:SER:HB2	1.85	0.42
1:C:1494:TRP:CG	1:C:1505:GLY:HA3	2.53	0.42
1:D:430:VAL:HG12	1:D:434:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:LEU:HB2	1:D:579:MET:HG3	2.00	0.42
1:D:633:THR:O	1:D:637:LEU:HB2	2.19	0.42
1:D:960:ARG:HH11	1:D:960:ARG:HG3	1.85	0.42
1:D:1011:ARG:NH1	1:D:1012:TRP:HA	2.34	0.42
1:D:1527:THR:OG1	1:D:1530:ASN:HB3	2.19	0.42
1:E:23:ALA:HA	2:K:2007:SER:O	2.19	0.42
1:E:427:ARG:O	1:E:430:VAL:HB	2.19	0.42
1:E:539:THR:HA	1:E:542:GLN:HE21	1.85	0.42
1:E:881:LEU:O	1:E:884:MET:HB2	2.19	0.42
1:E:1129:ILE:HG22	1:E:1139:THR:O	2.19	0.42
1:E:1162:GLY:O	1:E:1354:SER:HA	2.19	0.42
1:E:1647:ASP:C	1:E:1649:ALA:N	2.72	0.42
1:F:336:PHE:HA	1:F:339:GLN:HB2	2.02	0.42
1:F:631:LYS:O	1:F:635:ILE:HG22	2.19	0.42
1:F:883:LEU:N	1:F:883:LEU:HD23	2.33	0.42
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.19	0.42
2:G:290:VAL:CG1	2:G:314:LEU:HD23	2.48	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.85	0.42
2:G:765:TYR:CD2	2:G:805:MET:HG2	2.54	0.42
2:G:1104:ASP:N	2:G:1104:ASP:OD1	2.52	0.42
2:G:1106:LYS:HD3	2:G:1106:LYS:HA	1.75	0.42
2:G:1236:LEU:HD12	2:G:1242:ILE:HA	2.02	0.42
2:G:1389:LEU:N	2:G:1389:LEU:HD23	2.34	0.42
2:G:1981:GLU:O	2:G:1984:PRO:HG3	2.20	0.42
2:H:80:ILE:HG12	2:H:105:ILE:HG22	2.01	0.42
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.99	0.42
2:H:743:TRP:CD1	2:H:761:ILE:HD11	2.54	0.42
2:H:828:ALA:O	2:H:832:ILE:HG13	2.19	0.42
2:H:1236:LEU:HD12	2:H:1241:GLU:O	2.19	0.42
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.73	0.42
2:H:1520:LYS:HD2	2:H:1520:LYS:N	2.34	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	2.02	0.42
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.89	0.42
2:I:41:LEU:HD13	2:I:100:GLU:HB3	2.02	0.42
2:I:506:VAL:O	2:I:506:VAL:CG1	2.61	0.42
2:I:763:LEU:HD12	2:I:763:LEU:HA	1.88	0.42
2:I:872:GLY:HA2	2:I:909:ASP:O	2.20	0.42
2:I:937:ARG:NE	2:I:941:LEU:CD1	2.82	0.42
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.19	0.42
2:I:1911:THR:HG21	2:I:1977:ARG:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:200:LEU:H	2:J:200:LEU:HD23	1.84	0.42
2:J:472:THR:CG2	2:J:499:VAL:HG22	2.50	0.42
2:J:573:VAL:O	2:J:577:GLY:HA3	2.20	0.42
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.49	0.42
2:J:790:PRO:HA	2:J:795:SER:OG	2.20	0.42
2:J:929:MET:HE1	2:J:934:VAL:HA	2.00	0.42
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.20	0.42
2:J:1291:ARG:HD2	2:J:1297:LYS:HB3	2.02	0.42
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.39	0.42
2:K:594:MET:SD	2:K:809:GLY:HA3	2.59	0.42
2:K:605:VAL:O	2:K:628:ILE:HA	2.20	0.42
2:K:1436:ARG:NH2	2:K:1602:LEU:HD11	2.34	0.42
2:K:1481:ILE:HG13	2:K:1481:ILE:O	2.19	0.42
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.40	0.42
2:K:1911:THR:HG21	2:K:1977:ARG:HB2	2.01	0.42
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.20	0.42
2:K:1948:MET:HG2	2:K:1993:PHE:CZ	2.55	0.42
2:L:48:LEU:HD11	2:L:101:VAL:HG11	2.00	0.42
2:L:174:GLY:HA3	2:L:518:PRO:HD2	2.02	0.42
2:L:219:LYS:HB2	2:L:220:GLN:NE2	2.34	0.42
2:L:601:PRO:HA	2:L:602:PRO:HD3	1.79	0.42
2:L:796:TRP:CG	2:L:797:SER:N	2.87	0.42
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.49	0.42
4:L:2101:FMN:H9	4:L:2101:FMN:H1'2	1.86	0.42
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.55	0.42
1:A:662:ALA:HA	1:A:694:TYR:OH	2.19	0.42
1:A:667:ALA:O	1:A:671:GLN:HG3	2.19	0.42
1:A:853:MET:HG2	1:A:856:ASN:ND2	2.33	0.42
1:A:888:ILE:HA	1:A:891:LEU:HD12	2.02	0.42
1:A:1241:LEU:CD2	1:E:1097:LEU:HD12	2.49	0.42
1:B:799:LEU:HD11	1:B:824:LEU:HD12	2.00	0.42
1:B:1104:GLN:HE22	1:D:1106:LEU:HD12	1.84	0.42
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.41	0.42
1:C:71:ALA:HB3	2:H:371:HIS:HB2	2.02	0.42
1:C:427:ARG:HG3	1:C:492:ILE:HG12	2.02	0.42
1:C:751:GLU:OE1	1:C:770:MET:HE1	2.19	0.42
1:C:1162:GLY:O	1:C:1354:SER:HA	2.20	0.42
1:D:452:ILE:HG22	1:D:453:ASP:N	2.34	0.42
1:D:681:ILE:O	1:D:681:ILE:HG23	2.19	0.42
1:D:1183:VAL:HG11	1:D:1187:THR:CG2	2.46	0.42
1:D:1592:ALA:O	1:D:1593:ASP:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:848:ARG:HG2	1:E:871:PHE:O	2.20	0.42
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.54	0.42
1:F:29:ILE:HG13	2:L:1920:TYR:O	2.19	0.42
1:F:533:SER:OG	1:F:612:ILE:HG13	2.19	0.42
1:F:626:TRP:CE3	1:F:898:PHE:HB2	2.55	0.42
1:F:1071:TYR:C	1:F:1071:TYR:CD2	2.92	0.42
1:F:1393:VAL:N	1:F:1394:PRO:HD3	2.33	0.42
2:G:204:ILE:CG2	2:G:312:VAL:HG11	2.48	0.42
2:G:606:ALA:HB2	2:G:811:MET:CG	2.47	0.42
2:G:890:LYS:HB2	2:G:890:LYS:HE3	1.80	0.42
2:G:950:TRP:CE2	2:G:956:LYS:HG3	2.54	0.42
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.87	0.42
2:H:44:GLN:O	2:H:48:LEU:HG	2.20	0.42
2:I:318:ILE:HA	2:I:451:ILE:HD13	2.01	0.42
2:I:666:ASN:N	2:I:667:PRO:HD3	2.34	0.42
2:I:928:ASP:O	2:I:1007:LEU:HD23	2.19	0.42
2:I:1047:LEU:H	2:I:1047:LEU:CD1	2.29	0.42
2:I:1299:VAL:HG22	2:I:1301:PHE:CG	2.55	0.42
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.19	0.42
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.35	0.42
2:I:2039:TYR:CD2	2:I:2039:TYR:C	2.93	0.42
2:J:398:LEU:HA	2:J:398:LEU:HD23	1.88	0.42
2:J:724:ILE:O	2:J:727:VAL:HG23	2.20	0.42
2:J:754:PHE:N	2:J:754:PHE:CD1	2.86	0.42
2:J:791:TYR:HD2	2:J:796:TRP:CG	2.37	0.42
2:J:894:GLU:CD	2:J:897:LYS:HD3	2.40	0.42
2:J:912:LYS:HE2	2:J:1028:VAL:O	2.19	0.42
2:J:1044:LYS:HE2	3:J:2102:NAP:H4B	2.02	0.42
2:J:1096:LYS:HD2	2:J:1100:ARG:NH2	2.34	0.42
2:J:1236:LEU:HD21	2:J:1239:ASP:O	2.19	0.42
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.42
2:J:1637:VAL:HG12	2:J:1679:LEU:HD22	2.02	0.42
2:J:1731:GLY:O	2:J:1747:VAL:HG12	2.19	0.42
2:J:1981:GLU:O	2:J:1984:PRO:HG3	2.20	0.42
2:K:208:LEU:HD23	2:K:211:LEU:HD12	2.02	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:578:PRO:HG3	2:K:792:LEU:O	2.20	0.42
2:K:664:TYR:OH	2:K:701:VAL:HG11	2.19	0.42
2:K:747:ARG:NH1	2:K:780:SER:O	2.52	0.42
4:K:2101:FMN:H9	4:K:2101:FMN:H1'2	1.87	0.42
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:791:TYR:HD2	2:L:796:TRP:CG	2.37	0.42
2:L:1491:ARG:O	2:L:1492:LEU:HD23	2.19	0.42
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.18	0.42
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.19	0.42
1:A:916:THR:HA	1:A:919:ARG:HB2	2.00	0.42
1:A:1219:GLY:CA	1:A:1272:PRO:HD2	2.49	0.42
1:B:406:ALA:HB2	1:B:439:ARG:HD2	2.00	0.42
1:B:914:LEU:O	1:B:917:LYS:HB3	2.19	0.42
1:C:1232:LEU:HD23	1:C:1232:LEU:HA	1.79	0.42
1:C:1525:THR:O	1:C:1526:SER:HB3	2.19	0.42
1:D:620:LYS:HE3	1:D:626:TRP:CZ2	2.55	0.42
1:D:756:ILE:HA	1:D:759:ILE:CD1	2.48	0.42
1:D:885:ALA:HA	1:D:886:PRO:HD3	1.89	0.42
1:D:1654:TYR:CZ	1:D:1658:VAL:HG21	2.54	0.42
1:E:711:VAL:HG12	1:E:712:VAL:H	1.84	0.42
1:E:754:ARG:N	1:E:810:ASN:HB3	2.35	0.42
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.19	0.42
1:E:1232:LEU:HD23	1:E:1253:SER:HB2	2.02	0.42
1:F:782:LYS:NZ	1:F:786:LYS:HD2	2.34	0.42
1:F:999:LEU:HD23	1:F:999:LEU:HA	1.74	0.42
1:F:1301:VAL:HG22	1:F:1302:CYS:N	2.35	0.42
2:G:36:LEU:HD12	2:G:36:LEU:HA	1.91	0.42
2:G:283:THR:HG23	2:G:470:TYR:O	2.20	0.42
2:G:317:TRP:CD1	2:G:454:ASP:OD2	2.73	0.42
2:G:704:GLU:OE1	2:G:704:GLU:HA	2.19	0.42
2:G:1175:MET:O	2:G:1192:LEU:HD12	2.20	0.42
2:G:1229:VAL:CG1	2:G:1230:LYS:N	2.83	0.42
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.20	0.42
2:G:1332:GLY:C	2:G:1334:ALA:N	2.72	0.42
2:G:1359:LYS:O	2:G:1362:PHE:HD1	2.03	0.42
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.25	0.42
2:G:1515:LEU:HB2	2:G:1525:VAL:HG21	2.02	0.42
2:H:1234:ILE:HG22	2:H:1242:ILE:HG22	2.01	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:NE	2.47	0.42
2:H:1400:GLN:HG3	2:H:1448:ARG:HH12	1.85	0.42
2:H:1982:ALA:C	2:H:1984:PRO:HD3	2.40	0.42
2:I:174:GLY:HA2	2:I:524:ILE:CG1	2.49	0.42
2:I:204:ILE:CG2	2:I:312:VAL:HG11	2.48	0.42
2:I:248:VAL:O	2:I:252:LEU:HB2	2.20	0.42
2:I:613:VAL:H	2:I:614:PRO:HD3	1.85	0.42
2:I:917:ARG:CG	2:I:917:ARG:NH1	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	2.02	0.42
2:I:1914:LEU:O	2:I:1931:GLY:HA3	2.20	0.42
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	2.00	0.42
2:J:374:GLU:CA	2:J:377:HIS:CD2	2.80	0.42
2:J:560:ASP:HB3	2:J:565:ALA:HB1	2.00	0.42
2:J:717:LYS:HD2	4:J:2101:FMN:O2	2.20	0.42
2:J:818:THR:HG22	2:J:829:LYS:CB	2.43	0.42
2:J:907:ASN:HD21	2:J:917:ARG:HE	1.66	0.42
2:J:990:TYR:N	2:J:991:PRO:CD	2.83	0.42
2:J:1456:LEU:HD11	2:J:1543:TYR:CE2	2.48	0.42
2:J:1481:ILE:HD12	2:J:1515:LEU:CD2	2.47	0.42
2:J:1762:MET:HA	2:J:1779:LYS:HE2	2.02	0.42
4:J:2101:FMN:H1'2	4:J:2101:FMN:O4'	2.19	0.42
2:K:52:PHE:CD2	2:K:79:TYR:HD1	2.37	0.42
2:K:248:VAL:O	2:K:252:LEU:HB2	2.19	0.42
2:K:626:TYR:OH	2:K:1088:ASP:HA	2.19	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.35	0.42
2:K:673:GLN:O	2:K:676:LEU:HB3	2.20	0.42
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.49	0.42
2:K:865:ILE:HG21	2:K:867:LYS:HE3	2.02	0.42
2:K:1113:ILE:HG23	2:K:1169:TYR:CD2	2.55	0.42
2:K:1163:LEU:HD12	2:K:1163:LEU:HA	1.78	0.42
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.49	0.42
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.83	0.42
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.20	0.42
2:L:501:TRP:CZ2	2:L:524:ILE:HG21	2.54	0.42
2:L:512:HIS:HE1	2:L:566:VAL:HG13	1.84	0.42
2:L:754:PHE:N	2:L:754:PHE:CD1	2.88	0.42
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	2.02	0.42
2:L:1940:ALA:HA	2:L:1995:THR:HG21	2.01	0.42
1:A:41:THR:HA	2:G:1689:VAL:HB	2.02	0.42
1:A:409:ASP:HB2	1:A:439:ARG:HH12	1.83	0.42
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.47	0.42
1:B:526:MET:HE3	1:B:615:LEU:HG	2.01	0.42
1:B:526:MET:CE	1:B:615:LEU:HG	2.50	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:CB	2.48	0.42
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.87	0.42
1:C:623:PHE:O	1:C:624:GLY:C	2.58	0.42
1:C:852:LEU:HD23	1:C:852:LEU:O	2.20	0.42
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.88	0.42
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.55	0.42
1:D:898:PHE:CD2	1:D:899:ALA:N	2.88	0.42
1:D:1232:LEU:HD23	1:D:1232:LEU:HA	1.72	0.42
1:D:1672:GLY:O	1:D:1676:ASN:N	2.52	0.42
1:E:22:PHE:CE1	2:K:1867:MET:HG3	2.48	0.42
1:E:422:LEU:HD13	1:E:429:ILE:HG23	2.02	0.42
1:E:767:HIS:NE2	1:E:771:LEU:HD22	2.35	0.42
1:E:859:VAL:HG12	1:E:859:VAL:O	2.19	0.42
1:E:955:VAL:O	2:K:978:SER:N	2.48	0.42
1:E:960:ARG:HD3	2:K:969:ARG:NH2	2.34	0.42
1:E:1060:ASP:HB2	1:E:1063:ASP:OD2	2.19	0.42
1:E:1157:ASP:O	1:E:1327:ALA:HB3	2.20	0.42
1:F:422:LEU:HD13	1:F:429:ILE:HG23	2.02	0.42
1:F:1157:ASP:O	1:F:1327:ALA:HB3	2.19	0.42
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.33	0.42
2:G:863:GLU:HA	2:G:864:PRO:HD3	1.81	0.42
2:G:1084:LYS:O	2:G:1088:ASP:CB	2.65	0.42
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	2.02	0.42
2:G:1383:VAL:HA	2:G:1384:PRO:HD3	1.90	0.42
2:G:1744:GLU:HA	2:G:1799:LEU:HD11	2.02	0.42
2:H:541:LEU:HG	2:H:552:VAL:HG11	2.02	0.42
2:H:571:ASP:HB3	2:H:574:LYS:HB2	2.02	0.42
2:H:578:PRO:HG3	2:H:792:LEU:O	2.20	0.42
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	2.02	0.42
2:I:646:SER:O	2:I:649:GLU:HG2	2.20	0.42
2:I:724:ILE:O	2:I:727:VAL:HG23	2.20	0.42
2:I:819:ALA:HA	2:I:1081:GLU:O	2.20	0.42
2:I:838:VAL:HG12	2:I:839:ASP:N	2.35	0.42
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.00	0.42
2:I:1618:SER:O	2:I:1621:GLU:HB2	2.19	0.42
2:I:1725:HIS:CD2	2:I:1854:GLU:HB2	2.54	0.42
2:I:1769:VAL:HG13	2:I:1774:SER:C	2.39	0.42
2:I:2020:PHE:O	2:I:2024:LYS:HG2	2.20	0.42
2:J:248:VAL:O	2:J:252:LEU:HB2	2.19	0.42
2:J:595:SER:HB3	2:J:602:PRO:HD3	2.01	0.42
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	2.01	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH22	2.32	0.42
2:J:1646:ASN:HD22	2:J:1646:ASN:HA	1.69	0.42
2:J:2010:LEU:O	2:J:2014:VAL:HG23	2.19	0.42
2:K:583:THR:HG22	2:K:1115:TYR:HA	2.01	0.42
2:K:604:MET:HE1	2:K:777:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:868:LEU:HD21	2:K:1068:GLN:HG3	2.02	0.42
2:K:1083:ILE:HG13	2:K:1083:ILE:H	1.51	0.42
2:K:1455:GLN:HB2	2:K:1551:ILE:CG1	2.50	0.42
2:L:202:THR:O	2:L:205:ALA:HB3	2.19	0.42
2:L:465:LEU:HD13	2:L:469:VAL:HB	2.01	0.42
2:L:472:THR:CG2	2:L:499:VAL:HG22	2.50	0.42
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.19	0.42
2:L:578:PRO:HG3	2:L:792:LEU:O	2.18	0.42
2:L:607:GLY:HA2	2:L:612:THR:HG21	2.02	0.42
2:L:615:TRP:O	2:L:618:VAL:HG13	2.20	0.42
2:L:740:ILE:HA	2:L:775:VAL:HB	2.00	0.42
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	2.00	0.42
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.42
2:L:937:ARG:NE	2:L:941:LEU:CD1	2.81	0.42
2:L:1178:THR:HG22	2:L:1180:VAL:N	2.31	0.42
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.19	0.42
1:A:802:SER:HA	1:A:803:PRO:HD3	1.80	0.42
1:A:831:GLU:HG2	1:F:755:GLU:HG2	2.02	0.42
1:A:1191:LEU:HD23	1:A:1191:LEU:HA	1.90	0.42
1:A:1522:PHE:CD2	1:A:1534:GLU:HB3	2.55	0.42
1:B:526:MET:HE1	1:B:614:PHE:HB3	2.01	0.42
1:B:711:VAL:HG12	1:B:712:VAL:H	1.84	0.42
1:B:746:PHE:CG	3:B:1901:NAP:H4D	2.54	0.42
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.83	0.42
1:B:916:THR:HA	1:B:919:ARG:HB2	2.01	0.42
1:C:71:ALA:CB	2:H:371:HIS:HB2	2.50	0.42
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.53	0.42
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	2.01	0.42
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.02	0.42
1:D:527:ALA:HA	1:D:613:PRO:HB3	2.01	0.42
1:D:902:ASN:C	1:D:904:GLY:H	2.23	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.19	0.42
1:D:1207:TYR:CE2	1:D:1682:LYS:HD2	2.54	0.42
1:D:1420:TYR:O	1:D:1424:GLN:HG2	2.20	0.42
1:E:549:TYR:O	1:E:553:ARG:HB3	2.20	0.42
1:E:626:TRP:CD2	1:E:898:PHE:HD1	2.37	0.42
1:E:868:VAL:HG22	1:E:869:ARG:H	1.84	0.42
1:F:1011:ARG:HH11	1:F:1012:TRP:HA	1.84	0.42
1:F:1011:ARG:NH1	1:F:1012:TRP:HA	2.35	0.42
1:F:1672:GLY:O	1:F:1676:ASN:N	2.53	0.42
2:G:162:ALA:CA	2:G:167:VAL:HG22	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:208:LEU:HD23	2:G:211:LEU:HD12	2.02	0.42
2:G:444:LEU:HD23	2:G:444:LEU:HA	1.75	0.42
2:G:790:PRO:HA	2:G:795:SER:OG	2.19	0.42
2:G:1751:GLY:O	2:G:1752:PRO:C	2.58	0.42
2:H:815:ARG:NH2	2:H:1086:ILE:CG2	2.83	0.42
2:H:1163:LEU:HD12	2:H:1163:LEU:HA	1.85	0.42
2:H:1238:GLY:O	2:H:1239:ASP:HB2	2.19	0.42
2:H:1726:PHE:CE1	2:H:1857:VAL:HB	2.55	0.42
2:I:202:THR:O	2:I:205:ALA:HB3	2.20	0.42
2:I:311:ALA:O	2:I:314:LEU:HB3	2.20	0.42
2:I:501:TRP:CD1	2:I:501:TRP:C	2.94	0.42
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	2.00	0.42
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.20	0.42
2:I:1945:ILE:HG22	2:I:1946:LEU:N	2.34	0.42
2:I:1966:ARG:HG3	2:I:1967:ALA:N	2.34	0.42
2:I:1972:ILE:H	2:I:1972:ILE:HG13	1.41	0.42
2:J:99:LEU:HD23	2:J:99:LEU:HA	1.92	0.42
2:J:437:ALA:HA	2:J:438:PRO:HD3	1.81	0.42
2:J:521:VAL:HG13	2:J:549:ASN:HB2	2.01	0.42
2:J:604:MET:CE	2:J:811:MET:HB2	2.48	0.42
2:J:1470:LYS:HA	2:J:1470:LYS:HD3	1.89	0.42
2:K:186:LEU:HD23	2:K:186:LEU:HA	1.84	0.42
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.42
2:K:465:LEU:HD13	2:K:469:VAL:HB	2.01	0.42
2:K:821:GLU:OE2	2:K:1083:ILE:HG13	2.20	0.42
2:K:1538:ASN:HA	2:K:1539:PRO:HD3	1.87	0.42
2:K:1662:ARG:NH1	2:K:1684:GLU:OE1	2.52	0.42
2:K:1766:PHE:HB2	2:K:1780:ILE:HG12	2.02	0.42
2:K:2052:LYS:H	2:K:2052:LYS:HG2	1.38	0.42
2:L:220:GLN:O	2:L:222:PRO:HD3	2.19	0.42
2:L:560:ASP:HB3	2:L:565:ALA:HB1	2.01	0.42
2:L:608:MET:HA	4:L:2101:FMN:C5A	2.49	0.42
2:L:724:ILE:O	2:L:727:VAL:HG23	2.19	0.42
2:L:1022:ARG:H	2:L:1022:ARG:HG3	1.63	0.42
2:L:1442:TYR:CG	2:L:1499:LYS:O	2.73	0.42
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	2.02	0.42
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.68	0.42
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.85	0.42
1:A:960:ARG:HH12	2:G:968:GLU:CD	2.23	0.42
1:A:1004:PRO:HD3	1:A:1572:TRP:HH2	1.82	0.42
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1470:ARG:HA	1:A:1470:ARG:HD3	1.83	0.42
1:B:27:ARG:H	1:B:27:ARG:HG2	1.38	0.42
1:B:632:LEU:CA	1:B:635:ILE:HG22	2.45	0.42
1:B:869:ARG:HE	1:B:869:ARG:HB2	1.64	0.42
1:B:1554:LEU:HD23	1:B:1606:VAL:HG12	2.02	0.42
1:B:1574:LEU:HA	1:B:1574:LEU:HD12	1.83	0.42
1:C:611:THR:HG22	1:C:612:ILE:N	2.35	0.42
1:C:1052:ASP:O	1:C:1055:THR:O	2.38	0.42
1:C:1237:LYS:HB2	1:F:1236:TYR:O	2.20	0.42
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	2.00	0.42
1:C:1589:ASN:C	1:C:1589:ASN:ND2	2.74	0.42
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.13	0.42
1:D:13:LEU:HD11	2:J:2058:VAL:HG21	2.02	0.42
1:D:930:GLN:HG2	1:D:930:GLN:H	1.72	0.42
1:D:965:TYR:HE1	1:D:1669:PHE:CD1	2.38	0.42
1:D:983:GLN:HB3	1:D:1418:ILE:HG21	2.02	0.42
1:D:1080:LEU:HD23	1:D:1080:LEU:HA	1.85	0.42
1:E:902:ASN:O	1:E:904:GLY:N	2.52	0.42
1:E:916:THR:HA	1:E:919:ARG:HB2	2.02	0.42
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.93	0.42
1:E:1160:VAL:C	1:E:1352:MET:HE1	2.40	0.42
1:F:363:GLU:O	1:F:366:LYS:HB2	2.20	0.42
1:F:902:ASN:OD1	1:F:905:LEU:HD12	2.20	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:CB	2.49	0.42
2:G:479:ARG:C	2:G:481:LEU:H	2.23	0.42
2:G:723:ALA:O	2:G:726:GLN:HB2	2.20	0.42
2:G:791:TYR:CD2	2:G:796:TRP:CG	3.07	0.42
2:G:1057:TYR:C	2:G:1059:GLN:H	2.23	0.42
2:G:1335:PHE:CZ	2:G:1629:ILE:HD13	2.55	0.42
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.55	0.42
2:G:1400:GLN:HG3	2:G:1448:ARG:NH1	2.32	0.42
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.20	0.42
2:G:1743:LYS:HA	2:G:1798:GLY:HA2	2.02	0.42
2:H:41:LEU:HD13	2:H:100:GLU:HB3	2.01	0.42
2:H:129:ILE:HG21	2:H:132:LYS:HD2	2.01	0.42
2:H:272:PRO:HG2	2:H:300:THR:O	2.20	0.42
2:H:501:TRP:CZ2	2:H:528:THR:CG2	3.03	0.42
2:H:587:GLN:NE2	2:H:1268:GLU:HG2	2.35	0.42
2:H:608:MET:HA	4:H:2101:FMN:C5A	2.50	0.42
2:H:690:LEU:HB2	2:H:711:ILE:HG21	2.02	0.42
2:H:1207:THR:HB	2:H:1216:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1337:ASP:HB2	2:H:1342:PHE:CD1	2.54	0.42
2:H:1515:LEU:CB	2:H:1525:VAL:HG21	2.50	0.42
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.50	0.42
2:H:2053:GLU:H	2:H:2053:GLU:HG3	1.67	0.42
2:I:48:LEU:HD11	2:I:101:VAL:HG11	2.02	0.42
2:I:196:PHE:HD2	2:I:196:PHE:N	2.18	0.42
2:I:481:LEU:C	2:I:483:ASP:H	2.24	0.42
2:I:589:PHE:CD1	2:I:1116:PHE:CD2	3.08	0.42
2:I:609:THR:HG23	4:I:2101:FMN:O4	2.20	0.42
2:I:790:PRO:HA	2:I:795:SER:OG	2.20	0.42
2:I:827:GLN:O	2:I:830:GLN:HB3	2.20	0.42
2:I:938:MET:HE2	2:I:959:THR:HG22	2.02	0.42
2:I:1404:VAL:HA	2:I:1412:MET:O	2.20	0.42
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.42
2:I:1919:ASN:HD22	2:I:1919:ASN:HA	1.62	0.42
2:I:2057:GLU:HA	2:I:2060:ARG:HH12	1.78	0.42
2:J:664:TYR:OH	2:J:701:VAL:HG11	2.20	0.42
2:J:765:TYR:CD2	2:J:805:MET:HG2	2.55	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.81	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH21	2.32	0.42
2:J:1472:TRP:CE2	2:J:1540:VAL:HG22	2.55	0.42
2:J:1783:GLU:H	2:J:1783:GLU:CD	2.24	0.42
2:K:155:ASP:OD1	2:K:155:ASP:N	2.53	0.42
2:K:612:THR:CG2	2:K:629:GLU:O	2.68	0.42
2:K:664:TYR:C	2:K:666:ASN:H	2.23	0.42
2:K:1057:TYR:C	2:K:1059:GLN:H	2.23	0.42
2:L:48:LEU:HG	2:L:48:LEU:H	1.51	0.42
2:L:60:THR:HG22	2:L:62:GLU:H	1.84	0.42
2:L:122:ILE:HD13	2:L:122:ILE:HA	1.94	0.42
2:L:169:ILE:HG22	2:L:279:PHE:CD2	2.55	0.42
2:L:248:VAL:O	2:L:252:LEU:HB2	2.20	0.42
2:L:351:LEU:HD22	2:L:352:SER:H	1.85	0.42
2:L:461:PRO:HB3	2:L:483:ASP:O	2.20	0.42
2:L:700:GLU:HA	2:L:703:ASN:HB2	2.02	0.42
2:L:744:THR:HG22	2:L:745:GLY:H	1.84	0.42
2:L:955:LEU:HD21	2:L:1026:LYS:O	2.20	0.42
2:L:1324:PHE:N	2:L:1583:VAL:HG11	2.35	0.42
2:L:1378:ASN:HD22	2:L:1431:SER:CB	2.33	0.42
2:L:1454:MET:HE2	2:L:1550:SER:CA	2.41	0.42
2:L:1520:LYS:HD2	2:L:1520:LYS:N	2.35	0.42
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.19	0.42
1:A:397:ARG:HH12	1:A:692:THR:HG21	1.85	0.41
1:A:569:LEU:O	1:A:573:VAL:HG23	2.20	0.41
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.85	0.41
1:B:397:ARG:CG	1:B:397:ARG:NH1	2.48	0.41
1:B:562:SER:OG	1:E:551:LEU:HD21	2.20	0.41
1:B:1207:TYR:CE2	1:B:1682:LYS:HD2	2.55	0.41
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.65	0.41
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	2.01	0.41
1:C:458:GLU:H	1:C:458:GLU:CD	2.22	0.41
1:C:1491:ASN:ND2	1:C:1491:ASN:N	2.67	0.41
1:D:686:ARG:NH2	3:D:1901:NAP:O2X	2.53	0.41
1:D:802:SER:HA	1:D:803:PRO:HD3	1.81	0.41
1:D:1160:VAL:HG11	1:D:1337:PRO:HB3	2.01	0.41
1:D:1651:TYR:CE2	1:D:1655:CYS:SG	3.13	0.41
1:E:421:ARG:NH2	1:E:1613:LYS:CB	2.83	0.41
1:E:1082:GLU:HB2	1:E:1085:LEU:HD12	2.02	0.41
1:F:435:GLN:O	1:F:439:ARG:HG3	2.20	0.41
1:F:455:CYS:HA	1:F:456:PRO:HD3	1.84	0.41
1:F:654:HIS:O	1:F:741:ASP:HB2	2.20	0.41
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.55	0.41
1:F:904:GLY:HA2	1:F:906:GLN:CD	2.40	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:HD2	2.02	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.81	0.41
2:G:211:LEU:HD13	2:G:313:GLU:HG3	2.02	0.41
2:G:396:ILE:HD12	2:G:396:ILE:N	2.31	0.41
2:G:720:SER:HB3	2:G:723:ALA:HB2	2.02	0.41
2:G:1337:ASP:HB2	2:G:1342:PHE:CD1	2.55	0.41
2:G:1777:THR:HG23	2:G:1777:THR:O	2.20	0.41
2:G:1847:LEU:HD12	2:G:1847:LEU:N	2.35	0.41
2:H:197:VAL:HG13	2:H:200:LEU:HD21	2.02	0.41
2:H:420:PRO:HG3	2:H:847:TYR:HD1	1.85	0.41
2:H:459:LYS:HA	2:H:485:ASP:CG	2.40	0.41
2:H:596:ARG:HD3	2:H:1119:ARG:HG3	2.02	0.41
2:H:649:GLU:HG3	2:H:650:LYS:N	2.34	0.41
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.50	0.41
2:H:1802:ALA:CB	2:H:1804:GLN:HE22	2.27	0.41
2:H:1847:LEU:HD12	2:H:1847:LEU:N	2.35	0.41
2:I:174:GLY:HA3	2:I:518:PRO:HD2	2.02	0.41
2:I:560:ASP:HB3	2:I:565:ALA:HB1	2.01	0.41
2:I:580:LEU:HG	2:I:1098:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:698:SER:H	2:I:701:VAL:HG21	1.85	0.41
2:I:754:PHE:N	2:I:754:PHE:CD1	2.86	0.41
2:I:990:TYR:N	2:I:991:PRO:CD	2.82	0.41
2:I:1762:MET:HA	2:I:1779:LYS:HE2	2.01	0.41
2:J:220:GLN:O	2:J:222:PRO:HD3	2.20	0.41
2:J:615:TRP:O	2:J:618:VAL:HG13	2.20	0.41
2:J:914:TRP:CZ3	2:J:1033:ALA:HA	2.55	0.41
2:J:1644:LEU:HB3	2:J:1645:PRO:CD	2.50	0.41
2:J:1966:ARG:HG3	2:J:1967:ALA:N	2.35	0.41
4:J:2101:FMN:H1'2	4:J:2101:FMN:H9	1.81	0.41
2:K:76:VAL:HG21	2:K:113:PHE:CZ	2.55	0.41
2:K:411:PRO:HD2	2:K:414:LEU:HD11	2.01	0.41
2:K:1022:ARG:H	2:K:1022:ARG:HG3	1.65	0.41
2:L:113:PHE:CD1	2:L:113:PHE:N	2.88	0.41
2:L:246:ALA:N	2:L:247:PRO:HD2	2.35	0.41
2:L:279:PHE:HB2	2:L:467:ILE:HD12	2.02	0.41
2:L:720:SER:HB3	2:L:723:ALA:HB2	2.02	0.41
2:L:1346:MET:HG3	2:L:1380:TYR:CD1	2.55	0.41
2:L:1590:ILE:HG22	2:L:1591:HIS:N	2.35	0.41
2:L:1721:ARG:NH2	2:L:1853:ILE:CD1	2.78	0.41
2:L:1723:ASP:O	2:L:1727:ARG:HG3	2.20	0.41
1:A:388:GLU:HA	1:A:389:PRO:HD3	1.95	0.41
1:A:1296:GLN:HE21	1:E:1296:GLN:HG2	1.85	0.41
1:A:1419:LYS:HA	1:A:1422:ARG:HB2	2.02	0.41
1:B:358:PHE:CD2	1:B:359:VAL:N	2.88	0.41
1:B:575:ARG:HD3	1:E:534:GLN:O	2.20	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.54	0.41
1:C:358:PHE:HB2	1:D:358:PHE:HB2	2.02	0.41
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.40	0.41
1:D:88:ILE:HG21	2:J:1821:MET:HE1	2.01	0.41
1:D:749:ILE:HG13	1:D:769:ILE:HD13	2.02	0.41
1:D:905:LEU:C	1:D:907:PHE:H	2.24	0.41
1:D:1157:ASP:O	1:D:1327:ALA:HB3	2.20	0.41
1:D:1369:LEU:HD11	1:D:1642:LEU:HD21	2.02	0.41
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	2.01	0.41
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.54	0.41
1:E:1652:GLU:O	1:E:1656:VAL:HG23	2.20	0.41
1:E:1713:PHE:HA	1:E:1714:PRO:HD3	1.84	0.41
1:F:968:PRO:CD	1:F:1374:PRO:HB3	2.50	0.41
1:F:1129:ILE:HG22	1:F:1139:THR:O	2.20	0.41
1:F:1562:THR:HB	1:F:1572:TRP:CZ3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:155:ASP:OD1	2:G:155:ASP:N	2.52	0.41
2:G:605:VAL:O	2:G:628:ILE:HA	2.20	0.41
2:G:655:GLY:HA3	2:G:1272:ALA:HB2	2.01	0.41
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.20	0.41
2:G:1755:LYS:HG2	2:G:1755:LYS:H	1.71	0.41
2:G:1919:ASN:HD22	2:G:1919:ASN:HA	1.57	0.41
2:G:1982:ALA:C	2:G:1984:PRO:HD3	2.40	0.41
2:H:52:PHE:O	2:H:55:THR:HB	2.20	0.41
2:H:95:HIS:CB	2:H:96:PRO:HD3	2.50	0.41
2:H:129:ILE:CG2	2:H:132:LYS:HD2	2.50	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.81	0.41
2:H:512:HIS:HE1	2:H:566:VAL:HG13	1.85	0.41
2:H:744:THR:HG22	2:H:745:GLY:H	1.84	0.41
2:H:868:LEU:HD12	2:H:1066:ILE:HD12	2.01	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41
2:H:1447:GLN:HB3	2:H:1496:VAL:HG13	2.02	0.41
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.49	0.41
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.55	0.41
2:I:670:MET:CE	2:I:674:ILE:HD11	2.49	0.41
2:I:747:ARG:NH2	2:I:757:PHE:CE1	2.88	0.41
2:I:791:TYR:CD2	2:I:796:TRP:CG	3.08	0.41
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.83	0.41
2:I:1891:ILE:CD1	2:I:1943:LEU:HB3	2.46	0.41
2:J:193:TYR:HD1	2:J:263:ILE:HD13	1.82	0.41
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.19	0.41
2:J:704:GLU:OE1	2:J:704:GLU:HA	2.19	0.41
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.61	0.41
2:J:1551:ILE:CG2	2:J:1552:GLU:HG3	2.47	0.41
2:J:1807:GLN:HB3	2:J:1860:VAL:CG1	2.49	0.41
2:K:48:LEU:HD13	2:K:83:VAL:HG22	2.02	0.41
2:K:720:SER:HB3	2:K:723:ALA:HB2	2.02	0.41
2:K:785:SER:HB2	2:K:1094:HIS:CD2	2.56	0.41
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.49	0.41
2:K:1496:VAL:HG21	2:K:1504:TYR:CD2	2.55	0.41
2:K:1590:ILE:O	2:K:1597:SER:HB3	2.20	0.41
2:L:197:VAL:HG13	2:L:200:LEU:HD21	2.01	0.41
2:L:219:LYS:HB2	2:L:220:GLN:HE21	1.84	0.41
2:L:615:TRP:HB2	2:L:648:ILE:HG13	2.03	0.41
2:L:635:TYR:CD2	2:L:641:MET:HG3	2.53	0.41
2:L:713:HIS:HD2	2:L:740:ILE:HD13	1.81	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1305:LEU:H	2:L:1305:LEU:CD1	2.25	0.41
1:A:440:SER:HB3	1:A:481:LEU:CD2	2.45	0.41
1:A:1038:HIS:CE1	1:A:1042:LEU:HD23	2.54	0.41
1:A:1640:LYS:HD2	1:A:1641:TYR:CE1	2.55	0.41
1:B:34:VAL:O	1:B:38:GLU:HB2	2.20	0.41
1:B:801:LEU:HD13	1:B:822:GLU:HG2	2.02	0.41
1:B:902:ASN:O	1:B:904:GLY:N	2.51	0.41
1:B:1522:PHE:HB2	1:B:1557:PHE:CD1	2.55	0.41
1:B:1696:PHE:HB3	1:D:1402:THR:HG22	2.03	0.41
1:C:29:ILE:HG12	2:I:1921:ASN:C	2.40	0.41
1:C:1057:GLU:HA	1:C:1058:PRO:HD3	1.91	0.41
1:C:1060:ASP:HB2	1:C:1063:ASP:OD2	2.20	0.41
1:C:1217:GLU:O	1:C:1299:ALA:HB1	2.20	0.41
1:C:1395:ALA:HA	1:C:1396:PRO:HD3	1.83	0.41
1:D:526:MET:HE3	1:D:614:PHE:HB2	2.01	0.41
1:D:681:ILE:HG21	1:D:729:ILE:CD1	2.51	0.41
1:D:914:LEU:O	1:D:914:LEU:HD12	2.21	0.41
1:D:1129:ILE:HG22	1:D:1139:THR:O	2.20	0.41
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.35	0.41
1:E:532:ILE:HD11	1:E:866:LEU:O	2.21	0.41
1:E:681:ILE:HG23	1:E:681:ILE:O	2.20	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.21	0.41
1:F:11:TYR:HD1	2:L:2030:ILE:CD1	2.34	0.41
1:F:13:LEU:CD1	2:L:2058:VAL:HG21	2.50	0.41
1:F:407:ARG:H	1:F:407:ARG:HG3	1.59	0.41
1:F:448:MET:HE3	1:F:448:MET:HA	2.03	0.41
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.55	0.41
2:G:223:LYS:HB3	2:G:242:TYR:CZ	2.55	0.41
2:G:720:SER:H	2:G:723:ALA:HB3	1.85	0.41
2:G:1241:GLU:HA	2:G:1263:PHE:O	2.20	0.41
2:G:2009:PHE:HD2	2:G:2009:PHE:O	2.03	0.41
2:H:388:ASN:C	2:H:388:ASN:ND2	2.71	0.41
2:H:724:ILE:O	2:H:727:VAL:HG23	2.20	0.41
2:H:858:LEU:CD2	2:H:864:PRO:HA	2.50	0.41
2:H:1181:PHE:HE1	2:H:1191:PRO:HD2	1.84	0.41
2:H:1378:ASN:HB3	2:H:1610:MET:HE3	2.02	0.41
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.20	0.41
2:H:1851:MET:CE	2:H:2025:ILE:HG12	2.50	0.41
2:I:381:SER:OG	2:I:392:THR:HG23	2.20	0.41
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.20	0.41
2:I:673:GLN:O	2:I:676:LEU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.70	0.41
2:I:1096:LYS:HD2	2:I:1100:ARG:NH2	2.35	0.41
2:I:1325:VAL:HG13	2:I:1330:ASN:O	2.20	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.47	0.41
2:J:155:ASP:OD1	2:J:155:ASP:N	2.54	0.41
2:J:349:PRO:O	2:J:392:THR:HA	2.20	0.41
2:J:351:LEU:HD22	2:J:352:SER:H	1.85	0.41
2:J:720:SER:H	2:J:723:ALA:HB3	1.85	0.41
2:J:746:GLY:O	2:J:843:TRP:NE1	2.53	0.41
2:J:821:GLU:HB2	2:J:1083:ILE:HD11	2.02	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	1.99	0.41
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.67	0.41
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.20	0.41
2:K:189:ILE:HD12	2:K:256:VAL:HG13	2.02	0.41
2:K:297:THR:HG22	2:K:298:ALA:N	2.34	0.41
2:K:441:SER:C	2:K:443:TYR:H	2.24	0.41
2:K:545:ILE:HG22	2:K:555:LYS:HD3	2.02	0.41
2:K:609:THR:HG22	2:K:633:GLY:CA	2.49	0.41
2:K:641:MET:CE	2:K:676:LEU:HD12	2.50	0.41
2:K:747:ARG:HH11	2:K:780:SER:CB	2.26	0.41
2:K:916:GLY:O	2:K:924:VAL:N	2.46	0.41
2:K:1753:ARG:O	2:K:1757:ILE:HG12	2.20	0.41
2:L:189:ILE:HD12	2:L:256:VAL:HG13	2.02	0.41
2:L:271:GLU:H	2:L:274:GLU:CG	2.33	0.41
2:L:646:SER:O	2:L:649:GLU:HG2	2.20	0.41
2:L:938:MET:CE	2:L:959:THR:HA	2.50	0.41
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.90	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
1:A:565:GLN:O	1:A:568:ALA:HB3	2.20	0.41
1:A:673:LEU:HD21	1:A:884:MET:CE	2.50	0.41
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.39	0.41
1:B:21:GLN:HE21	1:B:21:GLN:HB3	1.60	0.41
1:B:802:SER:HA	1:B:803:PRO:HD3	1.83	0.41
1:B:963:LEU:CD2	1:B:1023:GLU:HB3	2.50	0.41
1:B:1395:ALA:HA	1:B:1396:PRO:HD3	1.82	0.41
1:C:570:TYR:O	1:C:574:ILE:HG12	2.20	0.41
1:C:612:ILE:CG2	1:C:628:TYR:CD2	2.90	0.41
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	2.02	0.41
1:C:1097:LEU:HD12	1:F:1241:LEU:CD2	2.51	0.41
1:C:1104:GLN:NE2	1:F:1106:LEU:HD12	2.34	0.41
1:C:1278:GLY:CA	1:C:1282:THR:HG22	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1577:CYS:HB3	1:C:1620:PHE:CD2	2.55	0.41
1:D:474:ILE:O	1:D:478:LYS:HG3	2.20	0.41
1:D:612:ILE:HG23	1:D:613:PRO:HD2	2.02	0.41
1:D:881:LEU:HA	1:D:884:MET:CG	2.39	0.41
1:D:968:PRO:CD	1:D:1374:PRO:HB3	2.50	0.41
1:E:1574:LEU:HA	1:E:1574:LEU:HD12	1.80	0.41
1:E:1710:GLU:OE1	1:E:1712:LYS:HE3	2.20	0.41
1:F:27:ARG:H	1:F:27:ARG:HG2	1.36	0.41
1:F:636:TYR:CE1	1:F:883:LEU:HD23	2.55	0.41
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	2.02	0.41
1:F:1579:GLN:O	1:F:1583:THR:HG23	2.20	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.50	0.41
1:F:1698:ASN:OD1	1:F:1698:ASN:C	2.58	0.41
2:G:353:ILE:O	2:G:353:ILE:HG22	2.19	0.41
2:G:636:TYR:CE2	3:G:2102:NAP:H3B	2.55	0.41
2:G:887:ASP:O	2:G:888:ARG:C	2.58	0.41
2:G:1624:ALA:HB1	2:G:1665:ILE:CD1	2.50	0.41
2:H:47:GLN:CG	2:I:23:PRO:HD2	2.49	0.41
2:H:606:ALA:HB2	2:H:811:MET:CG	2.49	0.41
2:H:740:ILE:HA	2:H:775:VAL:HB	2.01	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.75	0.41
2:H:1289:TYR:CD2	2:H:1370:LEU:HD23	2.56	0.41
2:H:1721:ARG:NH1	2:H:1854:GLU:OE2	2.53	0.41
2:H:1910:VAL:HG11	2:H:1973:ILE:CG2	2.51	0.41
2:H:2015:LYS:HB2	2:H:2016:PRO:CD	2.43	0.41
2:I:220:GLN:O	2:I:222:PRO:HD3	2.20	0.41
2:I:352:SER:HB2	2:I:433:LEU:HD11	2.03	0.41
2:I:479:ARG:C	2:I:481:LEU:H	2.24	0.41
2:I:915:PHE:O	2:I:915:PHE:CG	2.73	0.41
2:I:1346:MET:HE2	2:I:1346:MET:HB3	1.87	0.41
2:I:1424:LYS:HE3	2:I:1424:LYS:HB2	1.96	0.41
2:I:1456:LEU:CD1	2:I:1543:TYR:HE2	2.28	0.41
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.46	0.41
2:J:396:ILE:H	2:J:396:ILE:CD1	2.29	0.41
2:J:545:ILE:HG22	2:J:555:LYS:HD3	2.02	0.41
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.83	0.41
2:J:1113:ILE:HG22	2:J:1114:GLU:N	2.35	0.41
2:J:1313:ARG:HG3	2:J:1394:VAL:CG1	2.51	0.41
2:K:117:ASN:CA	2:K:561:ARG:HG3	2.38	0.41
2:K:223:LYS:HB3	2:K:242:TYR:CZ	2.54	0.41
2:K:357:THR:O	2:K:361:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:521:VAL:O	2:K:521:VAL:HG12	2.20	0.41
2:K:616:ASP:OD2	2:K:823:HIS:NE2	2.53	0.41
2:K:642:SER:HB3	2:K:676:LEU:HD21	2.02	0.41
2:K:670:MET:CE	2:K:674:ILE:HD11	2.51	0.41
2:K:1914:LEU:O	2:K:1931:GLY:HA3	2.19	0.41
2:K:1945:ILE:HG22	2:K:1946:LEU:N	2.34	0.41
2:L:76:VAL:HG21	2:L:113:PHE:CZ	2.55	0.41
2:L:152:LYS:HA	2:L:153:PRO:HD3	1.82	0.41
2:L:154:TYR:CD1	2:L:561:ARG:CZ	3.03	0.41
2:L:418:ARG:HE	2:L:418:ARG:HB3	1.67	0.41
2:L:507:PHE:HA	2:L:508:PRO:HD3	1.90	0.41
2:L:535:THR:OG1	2:L:537:VAL:HG23	2.21	0.41
2:L:819:ALA:HA	2:L:1081:GLU:O	2.21	0.41
2:L:1096:LYS:HD2	2:L:1100:ARG:NH2	2.35	0.41
2:L:1120:ILE:HG13	2:L:1169:TYR:CZ	2.56	0.41
2:L:1810:LEU:HA	2:L:1810:LEU:HD23	1.84	0.41
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.41
2:L:1920:TYR:HD2	2:L:1927:TYR:HE2	1.68	0.41
1:A:4:GLU:H	1:A:4:GLU:HG3	1.50	0.41
1:A:632:LEU:O	1:A:633:THR:C	2.59	0.41
1:B:1363:MET:HE2	1:B:1363:MET:HB2	1.77	0.41
1:B:1527:THR:OG1	1:B:1530:ASN:HB3	2.20	0.41
1:B:1546:GLY:O	1:B:1547:ARG:C	2.57	0.41
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.49	0.41
1:C:741:ASP:CG	1:C:793:ARG:HH11	2.24	0.41
1:C:1168:TRP:CE2	1:C:1173:TYR:HE1	2.39	0.41
1:C:1363:MET:SD	1:C:1367:LEU:HD13	2.61	0.41
1:C:1704:THR:HG23	1:C:1714:PRO:HG3	2.01	0.41
1:D:12:THR:CG2	2:J:2066:LYS:HD3	2.50	0.41
1:D:1011:ARG:HH11	1:D:1012:TRP:HA	1.86	0.41
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	2.02	0.41
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	2.03	0.41
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.58	0.41
1:E:448:MET:HA	1:E:448:MET:HE3	2.02	0.41
1:E:674:LEU:HD23	1:E:674:LEU:HA	1.92	0.41
1:E:1167:GLY:O	1:E:1172:ARG:NH1	2.54	0.41
1:E:1343:PRO:O	1:E:1531:ASP:OD2	2.38	0.41
1:E:1654:TYR:CZ	1:E:1658:VAL:HG21	2.55	0.41
1:F:2:ARG:CZ	2:L:2078:GLU:OE1	2.68	0.41
1:F:68:TYR:CD2	1:F:68:TYR:C	2.94	0.41
1:F:493:PRO:HD2	1:F:517:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:848:ARG:HG2	1:F:871:PHE:O	2.21	0.41
1:F:881:LEU:O	1:F:884:MET:HB2	2.21	0.41
1:F:1127:VAL:HG22	1:F:1142:LEU:HA	2.03	0.41
1:F:1191:LEU:HD23	1:F:1191:LEU:HA	1.80	0.41
2:G:349:PRO:O	2:G:392:THR:HA	2.20	0.41
2:G:476:GLN:H	2:G:476:GLN:HG2	1.66	0.41
2:G:1120:ILE:HD13	2:G:1173:HIS:CE1	2.56	0.41
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	2.02	0.41
2:G:1342:PHE:CE2	2:G:1391:VAL:HB	2.55	0.41
2:G:1384:PRO:HB3	2:G:1829:ARG:NH1	2.35	0.41
2:G:2050:ILE:O	2:G:2050:ILE:HG12	2.20	0.41
2:H:174:GLY:H	2:H:517:GLY:CA	2.32	0.41
2:H:265:CYS:SG	2:H:275:LEU:HB2	2.60	0.41
2:H:472:THR:CG2	2:H:499:VAL:HG22	2.50	0.41
2:H:528:THR:HA	2:H:531:ASN:ND2	2.36	0.41
2:H:605:VAL:O	2:H:628:ILE:HA	2.21	0.41
2:H:618:VAL:CG1	2:H:648:ILE:HD11	2.50	0.41
2:H:788:THR:HG21	2:H:810:CYS:SG	2.60	0.41
2:H:1473:PHE:HE1	2:H:1513:VAL:HG21	1.85	0.41
2:H:1577:ASN:OD1	2:H:1607:THR:HA	2.20	0.41
2:H:1749:PHE:CD2	2:H:1758:ARG:HB3	2.55	0.41
2:H:1881:TYR:CZ	2:H:2009:PHE:HE1	2.38	0.41
2:H:1940:ALA:HA	2:H:1995:THR:HG21	2.03	0.41
2:I:163:ALA:HB2	2:I:278:ARG:HE	1.85	0.41
2:I:463:SER:C	2:I:465:LEU:H	2.24	0.41
2:I:664:TYR:OH	2:I:701:VAL:HG11	2.20	0.41
2:I:740:ILE:HA	2:I:775:VAL:HB	2.02	0.41
2:I:821:GLU:OE2	2:I:1083:ILE:HG13	2.21	0.41
2:I:1769:VAL:HG22	2:I:1775:ILE:CA	2.39	0.41
2:I:1880:ASN:HB3	2:I:1881:TYR:CE1	2.55	0.41
2:I:1910:VAL:HG11	2:I:1973:ILE:CG2	2.50	0.41
2:J:60:THR:HG22	2:J:62:GLU:HG3	2.01	0.41
2:J:676:LEU:HA	2:J:679:ARG:NH2	2.35	0.41
2:J:858:LEU:CD2	2:J:864:PRO:HA	2.51	0.41
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.84	0.41
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.55	0.41
2:K:931:TYR:CD2	2:K:966:VAL:HG13	2.56	0.41
2:K:1000:TYR:HA	2:K:1001:PRO:HD2	1.72	0.41
2:K:1149:ALA:HA	2:K:1150:PRO:HD3	1.90	0.41
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.21	0.41
2:K:1725:HIS:CD2	2:K:1854:GLU:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2020:PHE:O	2:K:2024:LYS:HG2	2.21	0.41
2:L:716:PHE:CD1	2:L:727:VAL:HG13	2.56	0.41
2:L:932:ALA:O	2:L:935:VAL:HG13	2.20	0.41
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.83	0.41
2:L:1241:GLU:HA	2:L:1263:PHE:O	2.20	0.41
2:L:1517:LEU:CG	2:L:1523:ILE:HD11	2.49	0.41
2:L:1706:MET:HE1	2:L:1735:ILE:HG23	2.02	0.41
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	2.02	0.41
1:A:422:LEU:HD13	1:A:429:ILE:HG12	2.02	0.41
1:A:434:ILE:HD11	1:A:490:VAL:HG21	2.01	0.41
1:A:523:VAL:HG11	1:A:641:GLU:CA	2.50	0.41
1:B:576:ALA:HB1	1:B:584:ILE:HD11	2.03	0.41
1:B:740:LEU:HD12	1:B:781:ILE:HD13	2.03	0.41
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	2.03	0.41
1:B:1232:LEU:HD23	1:B:1253:SER:HB2	2.03	0.41
1:B:1277:VAL:HG23	1:D:1277:VAL:HG23	2.03	0.41
1:C:382:ILE:H	1:C:382:ILE:HG13	1.65	0.41
1:C:506:ILE:HD13	1:C:922:ILE:CG2	2.44	0.41
1:C:580:ASN:OD1	1:C:583:GLN:HG3	2.20	0.41
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	2.03	0.41
1:C:1404:ALA:HA	1:C:1501:ALA:HB1	2.02	0.41
1:C:1507:LEU:HA	1:C:1507:LEU:HD23	1.80	0.41
1:D:450:TYR:C	1:D:450:TYR:CD2	2.93	0.41
1:D:544:ASP:O	1:D:548:VAL:HG23	2.21	0.41
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.21	0.41
1:E:1041:PRO:HA	1:E:1046:PRO:HA	2.03	0.41
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	2.03	0.41
1:E:1487:THR:HA	1:E:1491:ASN:ND2	2.35	0.41
1:E:1599:MET:HA	1:E:1602:PHE:HD2	1.86	0.41
1:F:13:LEU:HD21	2:L:2054:TYR:CD2	2.55	0.41
1:F:42:GLU:OE1	2:L:1688:PRO:HB3	2.20	0.41
1:F:855:ALA:HB1	1:F:919:ARG:HH21	1.84	0.41
1:F:876:MET:HE3	1:F:876:MET:O	2.21	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.73	0.41
2:G:80:ILE:HG12	2:G:105:ILE:HG22	2.03	0.41
2:G:246:ALA:N	2:G:247:PRO:HD2	2.36	0.41
2:G:521:VAL:O	2:G:521:VAL:HG12	2.20	0.41
2:G:618:VAL:CG1	2:G:648:ILE:HD11	2.51	0.41
2:G:743:TRP:CZ2	2:G:757:PHE:HA	2.50	0.41
2:G:744:THR:HG22	2:G:745:GLY:N	2.35	0.41
2:G:1096:LYS:HD2	2:G:1100:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1351:VAL:CG2	2:G:1584:SER:HA	2.47	0.41
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.56	0.41
2:H:534:GLY:O	2:H:571:ASP:HA	2.20	0.41
2:H:723:ALA:O	2:H:726:GLN:HB2	2.20	0.41
2:H:882:LYS:HD3	2:H:898:ARG:NH1	2.35	0.41
2:H:1171:TRP:CG	2:H:1172:ARG:N	2.89	0.41
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.21	0.41
2:H:1753:ARG:O	2:H:1757:ILE:HG12	2.21	0.41
2:H:2052:LYS:CD	2:H:2074:TRP:HE1	2.24	0.41
2:I:521:VAL:HG12	2:I:521:VAL:O	2.20	0.41
2:J:197:VAL:HG13	2:J:200:LEU:HD21	2.02	0.41
2:J:578:PRO:HG3	2:J:792:LEU:O	2.19	0.41
2:J:723:ALA:O	2:J:726:GLN:HB2	2.20	0.41
2:J:747:ARG:HH11	2:J:780:SER:CB	2.26	0.41
2:J:819:ALA:HA	2:J:1081:GLU:O	2.19	0.41
2:J:1236:LEU:HD12	2:J:1241:GLU:O	2.20	0.41
2:J:1381:ARG:NH1	2:J:1634:SER:HB2	2.36	0.41
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.31	0.41
2:J:1933:LEU:HB3	2:J:1987:VAL:CG1	2.51	0.41
2:K:130:THR:HG23	2:K:546:ASP:HB3	2.02	0.41
2:K:511:THR:C	2:K:512:HIS:CD2	2.93	0.41
2:K:699:ILE:H	2:K:699:ILE:CD1	2.34	0.41
2:K:815:ARG:NH2	2:K:1086:ILE:CG2	2.83	0.41
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.21	0.41
2:K:1067:LEU:HB3	4:K:2101:FMN:HM82	2.02	0.41
2:K:1207:THR:HB	2:K:1216:VAL:HB	2.03	0.41
2:K:1616:VAL:HG13	2:K:1635:TYR:OH	2.20	0.41
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	2.02	0.41
2:K:2044:THR:C	2:K:2046:LYS:H	2.24	0.41
2:L:60:THR:HG22	2:L:62:GLU:HG3	2.01	0.41
2:L:129:ILE:CG2	2:L:132:LYS:HD2	2.51	0.41
2:L:743:TRP:CZ2	2:L:757:PHE:HA	2.51	0.41
2:L:744:THR:HG22	2:L:745:GLY:N	2.36	0.41
2:L:929:MET:CE	2:L:934:VAL:HG22	2.51	0.41
2:L:1465:ALA:O	2:L:1469:SER:HB3	2.20	0.41
2:L:1721:ARG:HH21	2:L:1853:ILE:CD1	2.31	0.41
1:A:34:VAL:HG21	2:G:2045:ALA:O	2.19	0.41
1:A:452:ILE:HG22	1:A:453:ASP:N	2.35	0.41
1:A:1459:GLY:HA2	1:A:1460:PRO:HD3	1.92	0.41
1:B:448:MET:HA	1:B:448:MET:CE	2.51	0.41
1:B:452:ILE:CD1	1:B:470:GLY:HA3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:522:TYR:O	1:B:526:MET:HG2	2.21	0.41
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.56	0.41
1:B:1162:GLY:O	1:B:1354:SER:HA	2.21	0.41
1:C:39:LYS:HD3	2:I:1832:THR:HG21	2.03	0.41
1:C:427:ARG:O	1:C:430:VAL:HB	2.21	0.41
1:C:681:ILE:HG21	1:C:729:ILE:CD1	2.51	0.41
1:C:1065:LYS:O	1:C:1069:GLU:HB2	2.20	0.41
1:C:1191:LEU:HD23	1:C:1191:LEU:HA	1.89	0.41
1:C:1652:GLU:O	1:C:1656:VAL:HG23	2.21	0.41
1:D:363:GLU:O	1:D:366:LYS:HB2	2.20	0.41
1:D:1542:LEU:HD22	1:D:1547:ARG:HD3	2.03	0.41
1:E:21:GLN:O	2:K:2006:HIS:CD2	2.71	0.41
1:E:619:LYS:HE3	1:E:619:LYS:HB2	1.84	0.41
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.50	0.41
1:E:1051:VAL:HG13	1:E:1057:GLU:O	2.21	0.41
1:E:1127:VAL:HG22	1:E:1142:LEU:HA	2.03	0.41
1:E:1457:GLU:H	1:E:1457:GLU:HG3	1.48	0.41
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.86	0.41
1:F:859:VAL:HG13	1:F:918:LEU:CB	2.51	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:CE	2.50	0.41
1:F:1217:GLU:O	1:F:1299:ALA:HB1	2.21	0.41
1:F:1522:PHE:CD2	1:F:1534:GLU:HB3	2.55	0.41
2:G:433:LEU:HA	2:G:434:PRO:HD3	1.86	0.41
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.41
2:G:938:MET:HE2	2:G:959:THR:HG22	2.01	0.41
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.01	0.41
2:G:1181:PHE:HE1	2:G:1191:PRO:HD2	1.84	0.41
2:G:1207:THR:HB	2:G:1216:VAL:HB	2.03	0.41
2:G:1231:THR:HG22	2:G:1232:VAL:N	2.35	0.41
2:G:1454:MET:HE2	2:G:1454:MET:HA	2.02	0.41
2:G:1656:VAL:O	2:G:1656:VAL:HG22	2.21	0.41
2:G:1709:TYR:HE2	2:G:1716:LYS:HE2	1.85	0.41
4:G:2101:FMN:H9	4:G:2101:FMN:H1'2	1.88	0.41
2:H:186:LEU:HD23	2:H:186:LEU:HA	1.78	0.41
2:H:317:TRP:CD1	2:H:454:ASP:CG	2.94	0.41
2:H:329:THR:HG22	2:I:1331:THR:O	2.20	0.41
2:H:636:TYR:CE2	3:H:2102:NAP:H3B	2.56	0.41
2:H:716:PHE:CD1	2:H:727:VAL:HG13	2.55	0.41
2:H:1102:LEU:HA	2:H:1102:LEU:HD23	1.83	0.41
2:H:1241:GLU:HA	2:H:1263:PHE:O	2.21	0.41
2:I:152:LYS:HA	2:I:153:PRO:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:460:ILE:O	2:I:486:ILE:N	2.53	0.41
2:I:720:SER:HB3	2:I:723:ALA:HB2	2.03	0.41
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.41
2:I:932:ALA:O	2:I:935:VAL:HG13	2.21	0.41
2:I:1053:ILE:CD1	2:I:1061:VAL:HG13	2.51	0.41
2:I:1203:TYR:CE2	2:I:1205:GLU:HG3	2.55	0.41
2:J:48:LEU:HG	2:J:48:LEU:H	1.56	0.41
2:J:608:MET:HE2	2:J:608:MET:HB3	1.54	0.41
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.51	0.41
2:J:726:GLN:O	2:J:730:ILE:HG12	2.20	0.41
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.53	0.41
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.85	0.41
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.21	0.41
2:J:1700:GLN:O	2:J:1700:GLN:HG2	2.20	0.41
2:J:1847:LEU:HD12	2:J:1847:LEU:N	2.35	0.41
2:K:416:GLN:HA	2:K:419:ILE:HG13	2.03	0.41
2:K:440:HIS:CD2	2:K:497:ASP:O	2.61	0.41
2:K:626:TYR:CE1	2:K:1087:LEU:HB3	2.55	0.41
2:K:765:TYR:HB2	2:K:805:MET:HE3	2.01	0.41
2:K:818:THR:HA	2:K:829:LYS:HE2	2.01	0.41
2:K:1847:LEU:HD12	2:K:1847:LEU:N	2.35	0.41
2:L:265:CYS:HA	2:L:275:LEU:HD12	2.03	0.41
2:L:310:ARG:HH12	2:L:459:LYS:H	1.69	0.41
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.56	0.41
2:L:912:LYS:HB3	2:L:1030:PHE:HA	2.03	0.41
2:L:1007:LEU:N	2:L:1007:LEU:CD1	2.76	0.41
2:L:1057:TYR:C	2:L:1059:GLN:H	2.23	0.41
2:L:1481:ILE:O	2:L:1481:ILE:HG13	2.20	0.41
2:L:1847:LEU:HD12	2:L:1847:LEU:N	2.35	0.41
2:L:2058:VAL:O	2:L:2062:THR:HB	2.21	0.41
1:A:619:LYS:HB2	1:A:619:LYS:HE3	1.85	0.41
1:A:955:VAL:HG21	2:G:964:ARG:HH21	1.85	0.41
1:A:1293:THR:HG23	1:A:1298:LYS:HB2	2.02	0.41
1:A:1371:MET:O	1:A:1661:ARG:NH1	2.54	0.41
1:A:1393:VAL:N	1:A:1394:PRO:HD3	2.35	0.41
1:B:352:ARG:O	1:B:356:LYS:HG3	2.20	0.41
1:B:579:MET:CE	1:E:907:PHE:CZ	3.04	0.41
1:B:1700:GLN:O	1:B:1701:SER:C	2.59	0.41
1:C:4:GLU:H	1:C:4:GLU:HG3	1.56	0.41
1:C:36:LEU:O	1:C:76:ARG:NH2	2.52	0.41
1:C:632:LEU:O	1:C:633:THR:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:662:ALA:HA	1:C:694:TYR:CZ	2.55	0.41
1:C:1343:PRO:O	1:C:1531:ASP:OD2	2.39	0.41
1:C:1514:ILE:H	1:C:1514:ILE:HG13	1.31	0.41
1:D:49:PRO:HB2	2:J:1699:SER:O	2.21	0.41
1:D:1063:ASP:O	1:D:1064:VAL:C	2.57	0.41
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.56	0.41
1:D:1321:MET:HE2	1:D:1321:MET:HB3	1.76	0.41
1:E:388:GLU:HA	1:E:389:PRO:HD3	1.95	0.41
1:E:879:ASN:HB3	1:E:901:LEU:HD13	2.03	0.41
1:F:343:ILE:O	1:F:347:LEU:HG	2.21	0.41
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.86	0.41
1:F:637:LEU:HD23	1:F:640:LEU:HD23	2.02	0.41
1:F:674:LEU:HA	1:F:674:LEU:HD23	1.88	0.41
1:F:959:PRO:HG2	2:L:974:GLU:HG3	2.02	0.41
1:F:963:LEU:CD2	1:F:1023:GLU:HB3	2.51	0.41
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.50	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.32	0.41
2:G:749:GLY:HA3	4:G:2101:FMN:HM81	2.02	0.41
2:G:762:LEU:HD23	2:G:805:MET:HE1	2.03	0.41
2:G:765:TYR:HB2	2:G:805:MET:HE3	2.03	0.41
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.53	0.41
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.36	0.41
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	2.03	0.41
2:G:1378:ASN:HD22	2:G:1431:SER:CB	2.33	0.41
2:H:31:LEU:HD13	2:H:75:LEU:HG	2.02	0.41
2:H:398:LEU:HA	2:H:398:LEU:HD23	1.91	0.41
2:H:536:GLY:HA2	2:H:569:ALA:O	2.21	0.41
2:H:791:TYR:HD2	2:H:796:TRP:CG	2.39	0.41
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	2.03	0.41
2:H:1594:ARG:NH1	2:H:1595:VAL:HG13	2.36	0.41
2:H:1723:ASP:O	2:H:1727:ARG:HG3	2.21	0.41
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.46	0.41
2:H:1968:HIS:O	2:H:1971:GLU:HB2	2.20	0.41
2:I:253:ILE:O	2:I:257:GLN:HG3	2.21	0.41
2:I:775:VAL:HG12	2:I:777:VAL:HG23	2.01	0.41
2:I:796:TRP:HH2	2:I:805:MET:HE1	1.81	0.41
2:I:858:LEU:CD2	2:I:864:PRO:HA	2.50	0.41
2:I:929:MET:HE1	2:I:934:VAL:HA	2.02	0.41
2:I:1483:LEU:H	2:I:1483:LEU:HG	1.09	0.41
2:J:174:GLY:HA2	2:J:524:ILE:HG12	2.02	0.41
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:246:ALA:N	2:J:247:PRO:HD2	2.35	0.41
2:J:346:THR:HA	2:J:347:PRO:HD3	1.88	0.41
2:J:418:ARG:HE	2:J:418:ARG:HB3	1.70	0.41
2:J:740:ILE:HA	2:J:775:VAL:HB	2.02	0.41
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.20	0.41
2:J:1163:LEU:HD12	2:J:1163:LEU:HA	1.79	0.41
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.51	0.41
2:J:2008:THR:O	2:J:2011:ARG:HG3	2.21	0.41
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.90	0.41
2:K:1106:LYS:HD3	2:K:1106:LYS:HA	1.76	0.41
2:K:1515:LEU:CB	2:K:1525:VAL:HG21	2.51	0.41
2:K:1645:PRO:O	2:K:1646:ASN:HB2	2.20	0.41
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.21	0.41
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.84	0.41
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.51	0.41
2:K:2003:VAL:HA	2:K:2004:PRO:HD3	1.92	0.41
2:K:2039:TYR:CD2	2:K:2039:TYR:C	2.94	0.41
2:L:204:ILE:CG2	2:L:312:VAL:HG21	2.51	0.41
2:L:358:ARG:HB2	2:L:389:PHE:CE2	2.55	0.41
2:L:737:PHE:HA	2:L:738:PRO:HD3	1.86	0.41
2:L:1755:LYS:HG2	2:L:1755:LYS:H	1.69	0.41
2:L:1762:MET:HA	2:L:1779:LYS:HE2	2.01	0.41
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	2.03	0.41
1:A:392:ASP:HA	1:A:393:PRO:HD2	1.72	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.51	0.41
1:A:498:THR:CG2	1:A:858:LEU:HA	2.41	0.41
1:A:526:MET:HE3	1:A:614:PHE:HB2	2.03	0.41
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.20	0.41
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.94	0.41
1:A:1107:GLU:CB	1:E:1104:GLN:OE1	2.66	0.41
1:A:1127:VAL:HG22	1:A:1142:LEU:HA	2.03	0.41
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.21	0.41
1:A:1484:GLU:O	1:A:1487:THR:HB	2.21	0.41
1:A:1674:ILE:HG22	1:A:1675:ASN:OD1	2.21	0.41
1:B:491:SER:O	1:B:493:PRO:HD3	2.21	0.41
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.85	0.41
1:B:628:TYR:CD1	1:B:629:SER:N	2.89	0.41
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.50	0.41
1:B:777:LEU:CD2	1:B:781:ILE:HD11	2.51	0.41
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.56	0.41
1:B:1065:LYS:O	1:B:1069:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.80	0.41
1:B:1288:ASP:OD2	1:B:1288:ASP:C	2.59	0.41
1:B:1491:ASN:H	1:B:1491:ASN:ND2	2.16	0.41
1:C:20:TYR:CE2	2:I:2062:THR:HG23	2.56	0.41
1:C:381:ASP:O	1:C:384:ALA:HB3	2.21	0.41
1:C:407:ARG:HB3	1:C:447:PHE:CE2	2.55	0.41
1:C:632:LEU:CA	1:C:635:ILE:HG22	2.46	0.41
1:C:636:TYR:CE1	1:C:883:LEU:HD23	2.56	0.41
1:C:726:VAL:HG21	1:C:780:ALA:HB3	2.02	0.41
1:C:914:LEU:O	1:C:914:LEU:HD12	2.20	0.41
1:C:1371:MET:O	1:C:1661:ARG:NH1	2.54	0.41
1:C:1459:GLY:HA2	1:C:1460:PRO:HD3	1.94	0.41
1:C:1546:GLY:O	1:C:1547:ARG:C	2.59	0.41
1:C:1623:THR:HG22	1:C:1633:GLN:HB2	2.03	0.41
1:D:484:PRO:HG3	1:D:651:GLN:OE1	2.21	0.41
1:D:626:TRP:CE3	1:D:898:PHE:HB2	2.56	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.52	0.41
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.21	0.41
1:D:1584:GLY:HA2	1:D:1617:ILE:HD12	2.03	0.41
1:D:1704:THR:HG23	1:D:1714:PRO:HG3	2.02	0.41
1:D:1711:LEU:HD23	1:D:1711:LEU:HA	1.88	0.41
1:E:71:ALA:CB	2:J:371:HIS:HB2	2.51	0.41
1:E:358:PHE:HD2	1:E:359:VAL:N	2.18	0.41
1:E:390:ALA:O	1:E:713:PRO:HB2	2.20	0.41
1:E:397:ARG:HD3	1:E:397:ARG:N	2.36	0.41
1:E:443:LEU:HD12	1:E:443:LEU:H	1.85	0.41
1:E:530:GLY:O	1:E:611:THR:HG21	2.21	0.41
1:E:612:ILE:HG23	1:E:613:PRO:HD2	2.01	0.41
1:E:632:LEU:CA	1:E:635:ILE:HG22	2.47	0.41
1:F:24:MET:HB3	2:L:2043:VAL:HG12	2.02	0.41
1:F:452:ILE:CD1	1:F:467:LYS:HA	2.51	0.41
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.55	0.41
1:F:984:LEU:HD21	1:F:1510:TRP:O	2.21	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:HE3	2.03	0.41
1:F:1183:VAL:HG11	1:F:1187:THR:CG2	2.44	0.41
1:F:1687:TYR:HD2	1:F:1713:PHE:CD1	2.39	0.41
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.50	0.41
2:G:200:LEU:H	2:G:200:LEU:HD23	1.86	0.41
2:G:202:THR:O	2:G:205:ALA:HB3	2.21	0.41
2:G:251:PRO:CG	2:G:316:PHE:HA	2.48	0.41
2:G:297:THR:HG22	2:G:298:ALA:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:376:ARG:HH22	2:H:1340:LYS:CE	2.34	0.41
2:G:796:TRP:CG	2:G:797:SER:N	2.88	0.41
2:G:821:GLU:HB2	2:G:1083:ILE:HD11	2.02	0.41
2:G:858:LEU:CD2	2:G:864:PRO:HA	2.51	0.41
2:G:931:TYR:CZ	2:G:1008:ILE:HA	2.56	0.41
2:G:1047:LEU:H	2:G:1047:LEU:CD1	2.29	0.41
2:G:1314:GLU:O	2:G:1394:VAL:HA	2.19	0.41
2:G:1346:MET:HE3	2:G:1346:MET:HB3	1.88	0.41
2:G:1455:GLN:HB2	2:G:1551:ILE:HG13	2.03	0.41
2:G:1616:VAL:HG13	2:G:1635:TYR:OH	2.20	0.41
2:H:327:PRO:O	2:I:1338:ARG:NH2	2.40	0.41
2:H:339:SER:O	2:H:344:GLU:HB2	2.21	0.41
2:H:342:ASN:HD22	2:H:342:ASN:N	2.19	0.41
2:H:350:MET:SD	2:H:392:THR:CG2	3.09	0.41
2:H:396:ILE:HD12	2:H:396:ILE:N	2.34	0.41
2:H:462:ALA:HB3	2:H:483:ASP:H	1.85	0.41
2:H:481:LEU:C	2:H:483:ASP:H	2.25	0.41
2:H:490:LEU:HD23	2:H:493:MET:SD	2.60	0.41
2:H:501:TRP:CD1	2:H:501:TRP:C	2.94	0.41
2:H:673:GLN:O	2:H:676:LEU:HB3	2.21	0.41
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.85	0.41
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.54	0.41
2:H:916:GLY:O	2:H:924:VAL:HG23	2.20	0.41
2:H:1002:GLU:C	2:H:1004:SER:H	2.24	0.41
2:H:1050:SER:HA	2:H:1064:THR:HG21	2.01	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.81	0.41
2:H:1378:ASN:HD22	2:H:1431:SER:CB	2.33	0.41
2:H:1383:VAL:CG2	2:H:1428:TYR:HE1	2.33	0.41
2:H:1406:ASN:OD1	2:H:1406:ASN:N	2.52	0.41
2:H:1604:GLY:O	2:H:1644:LEU:HD22	2.21	0.41
2:H:1810:LEU:HA	2:H:1810:LEU:HD23	1.88	0.41
2:H:2039:TYR:CD2	2:H:2039:TYR:C	2.94	0.41
2:I:168:LYS:H	2:I:511:THR:HB	1.85	0.41
2:I:283:THR:HG23	2:I:470:TYR:O	2.21	0.41
2:I:310:ARG:HH12	2:I:459:LYS:H	1.68	0.41
2:I:339:SER:O	2:I:344:GLU:HB2	2.21	0.41
2:I:609:THR:HG22	2:I:633:GLY:CA	2.51	0.41
2:I:641:MET:CE	2:I:676:LEU:HD12	2.51	0.41
2:I:718:PRO:HG2	2:I:741:LEU:HD11	2.03	0.41
2:I:765:TYR:HB2	2:I:805:MET:HE3	2.02	0.41
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1057:TYR:C	2:I:1059:GLN:H	2.23	0.41
2:I:1229:VAL:CG1	2:I:1230:LYS:N	2.84	0.41
2:I:1257:VAL:HA	2:I:1258:PRO:HD3	1.82	0.41
2:I:1497:ARG:O	2:I:1505:SER:HB3	2.21	0.41
2:I:1783:GLU:CD	2:I:1783:GLU:H	2.24	0.41
2:I:1969:LEU:HA	2:I:1972:ILE:CD1	2.51	0.41
2:I:2044:THR:C	2:I:2046:LYS:H	2.24	0.41
2:I:2073:ASN:O	2:I:2076:LYS:N	2.53	0.41
2:J:41:LEU:HD13	2:J:100:GLU:HB3	2.02	0.41
2:J:95:HIS:CB	2:J:96:PRO:HD3	2.49	0.41
2:J:479:ARG:C	2:J:481:LEU:H	2.24	0.41
2:J:716:PHE:HD1	2:J:727:VAL:HG13	1.85	0.41
2:J:875:PHE:C	2:J:878:GLU:HB2	2.41	0.41
2:J:917:ARG:CG	2:J:917:ARG:NH1	2.48	0.41
2:J:931:TYR:CZ	2:J:1008:ILE:HA	2.56	0.41
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.36	0.41
2:J:1594:ARG:NH1	2:J:1595:VAL:HG13	2.36	0.41
2:J:1764:MET:HB3	2:J:1780:ILE:CG1	2.51	0.41
2:J:1940:ALA:HA	2:J:1995:THR:HG21	2.02	0.41
2:J:2009:PHE:HD2	2:J:2009:PHE:O	2.03	0.41
2:K:31:LEU:HD13	2:K:75:LEU:HG	2.02	0.41
2:K:44:GLN:O	2:K:48:LEU:HG	2.20	0.41
2:K:172:ILE:HG22	2:K:514:VAL:C	2.42	0.41
2:K:351:LEU:O	2:K:390:VAL:HA	2.21	0.41
2:K:521:VAL:HG13	2:K:549:ASN:HB2	2.03	0.41
2:K:608:MET:O	2:K:609:THR:C	2.59	0.41
2:K:656:ARG:HD2	2:K:656:ARG:HA	1.91	0.41
2:K:717:LYS:HD2	4:K:2101:FMN:O2	2.21	0.41
2:K:740:ILE:HD12	2:K:740:ILE:H	1.86	0.41
2:K:875:PHE:HE2	2:K:906:LEU:HD23	1.85	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.72	0.41
2:K:1375:HIS:CE1	2:K:1610:MET:SD	3.12	0.41
2:K:1378:ASN:HD22	2:K:1431:SER:CB	2.34	0.41
2:K:1455:GLN:HB2	2:K:1551:ILE:HG13	2.03	0.41
2:K:1701:GLU:N	2:K:1704:MET:HE3	2.33	0.41
2:K:1751:GLY:O	2:K:1752:PRO:C	2.60	0.41
2:K:1805:PHE:C	2:K:1808:PRO:HD2	2.41	0.41
2:K:1940:ALA:HA	2:K:1995:THR:HG21	2.02	0.41
2:K:1969:LEU:HA	2:K:1972:ILE:CD1	2.50	0.41
2:K:2038:LYS:HA	2:K:2038:LYS:HD3	1.89	0.41
2:L:253:ILE:O	2:L:257:GLN:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:314:LEU:O	2:L:318:ILE:HG13	2.21	0.41
2:L:342:ASN:OD1	2:L:406:ARG:CZ	2.68	0.41
2:L:541:LEU:HG	2:L:552:VAL:HG11	2.02	0.41
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.50	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.61	0.41
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.21	0.41
2:L:928:ASP:C	2:L:1007:LEU:HD23	2.41	0.41
2:L:1064:THR:HG22	2:L:1065:CYS:H	1.85	0.41
2:L:1146:LEU:HD11	2:L:1160:PHE:CE2	2.56	0.41
2:L:1238:GLY:O	2:L:1239:ASP:HB2	2.20	0.41
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.56	0.41
2:L:1447:GLN:HB3	2:L:1496:VAL:HG13	2.03	0.41
2:L:1662:ARG:HH11	2:L:1684:GLU:HB3	1.86	0.41
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.21	0.41
2:L:1991:ARG:HE	2:L:1996:ILE:HG12	1.86	0.41
2:L:2053:GLU:H	2:L:2053:GLU:HG3	1.68	0.41
1:A:1698:ASN:OD1	1:A:1698:ASN:C	2.58	0.41
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.02	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:1651:TYR:CE2	1:B:1655:CYS:SG	3.14	0.41
1:B:1686:PRO:HD2	1:B:1687:TYR:CE2	2.56	0.41
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.51	0.41
1:C:474:ILE:O	1:C:478:LYS:HG3	2.21	0.41
1:C:962:ASN:CB	2:I:969:ARG:HD2	2.51	0.41
1:C:1232:LEU:HD23	1:C:1253:SER:HB2	2.01	0.41
1:C:1393:VAL:N	1:C:1394:PRO:HD3	2.36	0.41
1:D:619:LYS:HB2	1:D:619:LYS:HE3	1.85	0.41
1:D:715:ASN:ND2	3:D:1901:NAP:H62A	2.19	0.41
1:D:1302:CYS:O	1:D:1362:ILE:HG12	2.21	0.41
1:D:1440:TYR:O	1:D:1444:GLN:HB2	2.20	0.41
1:D:1521:SER:HB2	1:D:1577:CYS:SG	2.61	0.41
1:D:1562:THR:HB	1:D:1572:TRP:CZ3	2.55	0.41
1:E:49:PRO:HB2	2:K:1699:SER:O	2.21	0.41
1:E:522:TYR:O	1:E:526:MET:HG2	2.21	0.41
1:E:749:ILE:HA	1:E:750:PRO:HD3	1.89	0.41
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	2.03	0.41
1:E:1338:GLY:C	1:E:1340:MET:N	2.74	0.41
1:E:1562:THR:HB	1:E:1572:TRP:CZ3	2.56	0.41
1:E:1698:ASN:OD1	1:E:1698:ASN:C	2.58	0.41
1:E:1698:ASN:HA	1:E:1699:PRO:HD3	1.83	0.41
1:F:1491:ASN:ND2	1:F:1491:ASN:N	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.51	0.41
2:G:946:HIS:CE1	2:G:947:GLU:HG3	2.56	0.41
2:G:1783:GLU:H	2:G:1783:GLU:CD	2.24	0.41
2:H:36:LEU:HD12	2:H:36:LEU:HA	1.92	0.41
2:H:200:LEU:HD23	2:H:200:LEU:H	1.86	0.41
2:H:228:LEU:O	2:H:232:HIS:CD2	2.71	0.41
2:H:863:GLU:HA	2:H:864:PRO:HD3	1.82	0.41
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.56	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:H:1706:MET:HE2	2:H:1738:VAL:HG11	2.03	0.41
2:H:1844:LEU:HD22	2:H:1850:VAL:HG21	2.03	0.41
2:H:1981:GLU:O	2:H:1984:PRO:HG3	2.21	0.41
2:I:60:THR:HG22	2:I:62:GLU:HG3	2.03	0.41
2:I:216:ASP:CB	2:I:321:ARG:HH12	2.34	0.41
2:I:268:LEU:HB3	2:I:270:ARG:HD3	2.02	0.41
2:I:472:THR:CG2	2:I:499:VAL:HG22	2.51	0.41
2:I:787:ASP:CG	2:I:1075:TYR:HE2	2.25	0.41
2:I:856:THR:HA	2:I:865:ILE:O	2.21	0.41
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.56	0.41
2:I:1844:LEU:HD22	2:I:1850:VAL:HG21	2.02	0.41
2:J:186:LEU:HG	2:J:256:VAL:CG2	2.50	0.41
2:J:276:LEU:O	2:J:467:ILE:CD1	2.69	0.41
2:J:595:SER:CB	2:J:602:PRO:HG3	2.32	0.41
2:J:1057:TYR:C	2:J:1059:GLN:H	2.23	0.41
2:J:1782:LYS:H	2:J:1782:LYS:HG2	1.72	0.41
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.51	0.41
2:K:137:VAL:O	2:K:141:TYR:HD1	2.04	0.41
2:K:226:ASP:OD2	2:K:229:GLN:HB2	2.20	0.41
2:K:747:ARG:O	2:K:1070:PRO:HD2	2.20	0.41
2:K:894:GLU:OE2	2:K:897:LYS:HD3	2.21	0.41
2:K:1104:ASP:OD1	2:K:1104:ASP:N	2.54	0.41
2:K:1709:TYR:HE2	2:K:1716:LYS:HG2	1.86	0.41
2:K:1762:MET:HA	2:K:1779:LYS:HE2	2.02	0.41
2:K:1903:VAL:HG13	2:K:1942:VAL:HG11	2.03	0.41
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.50	0.41
2:K:1966:ARG:HG3	2:K:1967:ALA:N	2.36	0.41
2:K:2008:THR:O	2:K:2011:ARG:HG3	2.21	0.41
2:L:349:PRO:O	2:L:392:THR:HA	2.20	0.41
2:L:595:SER:HB2	2:L:600:VAL:O	2.21	0.41
2:L:690:LEU:HB2	2:L:711:ILE:HG21	2.03	0.41
2:L:938:MET:HE1	2:L:959:THR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1047:LEU:H	2:L:1047:LEU:CD1	2.30	0.41
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.53	0.41
2:L:1289:TYR:OH	2:L:1371:LEU:HA	2.21	0.41
2:L:1406:ASN:HA	2:L:1411:LYS:HA	2.03	0.41
2:L:1616:VAL:HG13	2:L:1635:TYR:OH	2.21	0.41
2:L:1766:PHE:HB2	2:L:1780:ILE:HG12	2.03	0.41
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.53	0.40
1:A:868:VAL:HG22	1:A:869:ARG:H	1.85	0.40
1:A:1162:GLY:O	1:A:1354:SER:HA	2.21	0.40
1:B:506:ILE:HD11	1:B:926:SER:CB	2.51	0.40
1:B:579:MET:HE1	1:E:907:PHE:CE1	2.56	0.40
1:C:23:ALA:CA	2:I:2007:SER:O	2.69	0.40
1:C:746:PHE:CG	3:C:1901:NAP:H4D	2.56	0.40
1:C:1042:LEU:O	1:C:1043:LYS:HB2	2.21	0.40
1:D:27:ARG:NE	2:J:2043:VAL:O	2.53	0.40
1:D:828:TRP:NE1	1:D:838:THR:HA	2.31	0.40
1:D:1323:ALA:CB	1:D:1351:PHE:HE2	2.34	0.40
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.55	0.40
1:E:452:ILE:CD1	1:E:470:GLY:HA3	2.45	0.40
1:E:526:MET:CE	1:E:614:PHE:HB3	2.51	0.40
1:E:534:GLN:HA	1:E:610:GLU:O	2.22	0.40
1:E:1648:LYS:O	1:E:1652:GLU:HB2	2.20	0.40
1:F:352:ARG:HE	1:F:352:ARG:HB2	1.56	0.40
1:F:1057:GLU:HA	1:F:1058:PRO:HD3	1.88	0.40
1:F:1395:ALA:HA	1:F:1396:PRO:HD3	1.81	0.40
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	2.04	0.40
1:F:1680:VAL:O	1:F:1680:VAL:HG12	2.20	0.40
2:G:351:LEU:HD22	2:G:352:SER:H	1.86	0.40
2:G:700:GLU:HA	2:G:703:ASN:HB2	2.02	0.40
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.04	0.40
2:G:1972:ILE:H	2:G:1972:ILE:HG13	1.39	0.40
2:H:764:MET:O	2:H:765:TYR:C	2.59	0.40
2:H:929:MET:CE	2:H:934:VAL:HG22	2.51	0.40
2:H:1106:LYS:HA	2:H:1106:LYS:HD3	1.80	0.40
2:H:1410:GLY:HA2	2:H:1437:GLY:H	1.86	0.40
2:H:1624:ALA:CB	2:H:1665:ILE:HD13	2.51	0.40
2:H:1725:HIS:CD2	2:H:1854:GLU:HB2	2.56	0.40
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.84	0.40
2:H:1903:VAL:HG13	2:H:1942:VAL:HG11	2.03	0.40
2:H:1974:GLN:HE21	2:H:1977:ARG:HH21	1.69	0.40
2:I:174:GLY:HA2	2:I:524:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.04	0.40
2:I:938:MET:O	2:I:942:MET:HG3	2.21	0.40
2:I:950:TRP:NE1	2:I:956:LYS:HD3	2.35	0.40
2:I:1050:SER:HA	2:I:1064:THR:HG21	2.02	0.40
2:I:1181:PHE:HE1	2:I:1191:PRO:HD2	1.82	0.40
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.51	0.40
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.88	0.40
2:J:297:THR:HG22	2:J:298:ALA:N	2.36	0.40
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.21	0.40
2:J:1604:GLY:O	2:J:1644:LEU:HD22	2.21	0.40
2:J:1750:GLY:N	2:J:1754:GLY:HA3	2.36	0.40
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.48	0.40
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.52	0.40
2:J:1891:ILE:HG22	2:J:1892:SER:N	2.36	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.51	0.40
2:K:298:ALA:HA	2:K:303:GLU:HG2	2.04	0.40
2:K:331:LEU:CD2	2:K:396:ILE:HG13	2.51	0.40
2:K:536:GLY:HA2	2:K:569:ALA:O	2.22	0.40
2:K:700:GLU:HA	2:K:703:ASN:HB2	2.03	0.40
2:K:838:VAL:HG12	2:K:839:ASP:N	2.36	0.40
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.33	0.40
2:L:314:LEU:HG	2:L:318:ILE:CD1	2.47	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.80	0.40
2:L:540:ILE:HA	2:L:553:GLY:O	2.21	0.40
2:L:1031:VAL:HA	2:L:1032:PRO:HD3	1.69	0.40
2:L:1725:HIS:CD2	2:L:1854:GLU:HB2	2.56	0.40
2:L:1762:MET:HB3	2:L:1762:MET:HE2	2.01	0.40
2:L:1903:VAL:HG11	2:L:1943:LEU:HD21	2.03	0.40
2:L:1969:LEU:HA	2:L:1972:ILE:CD1	2.51	0.40
1:A:11:TYR:CG	2:G:2027:LYS:HG2	2.56	0.40
1:A:928:ILE:HG12	2:G:1462:GLN:HB2	2.03	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.04	0.40
1:A:1554:LEU:HB3	1:A:1586:VAL:HG11	2.04	0.40
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.80	0.40
1:B:1307:PHE:CB	1:B:1357:CYS:HB3	2.51	0.40
1:B:1441:LEU:O	1:B:1444:GLN:HB3	2.21	0.40
1:B:1514:ILE:H	1:B:1514:ILE:HG13	1.35	0.40
1:C:502:ALA:CA	1:C:929:ARG:HD3	2.50	0.40
1:C:522:TYR:O	1:C:526:MET:HG2	2.22	0.40
1:C:1198:LEU:HD23	1:C:1198:LEU:HA	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1268:SER:OG	1:C:1686:PRO:HD3	2.22	0.40
1:D:726:VAL:HG21	1:D:780:ALA:HB3	2.03	0.40
1:D:1050:TRP:HA	1:D:1050:TRP:HE3	1.86	0.40
1:D:1191:LEU:HD23	1:D:1191:LEU:HA	1.82	0.40
1:D:1494:TRP:CG	1:D:1505:GLY:HA3	2.55	0.40
1:E:11:TYR:HD1	2:K:2030:ILE:CD1	2.34	0.40
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.51	0.40
1:E:857:ASN:HA	1:E:860:ALA:HB2	2.02	0.40
1:E:1102:ILE:H	1:E:1102:ILE:HG13	1.66	0.40
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.56	0.40
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.56	0.40
1:F:835:ASN:OD1	1:F:835:ASN:N	2.54	0.40
1:F:1303:LEU:HD23	1:F:1303:LEU:HA	1.60	0.40
2:G:396:ILE:H	2:G:396:ILE:CD1	2.33	0.40
2:G:819:ALA:HA	2:G:1081:GLU:O	2.20	0.40
2:G:1016:PHE:O	2:G:1019:LEU:HB2	2.21	0.40
2:G:1253:GLU:H	2:G:1253:GLU:HG2	1.74	0.40
2:G:1299:VAL:HG22	2:G:1301:PHE:CG	2.56	0.40
2:G:1455:GLN:HB2	2:G:1551:ILE:CG1	2.51	0.40
2:H:268:LEU:HB3	2:H:270:ARG:HD3	2.03	0.40
2:H:652:ILE:O	2:H:654:PRO:HD3	2.22	0.40
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.55	0.40
2:H:1299:VAL:HG22	2:H:1301:PHE:CG	2.56	0.40
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.21	0.40
2:H:1799:LEU:C	2:H:1801:SER:H	2.23	0.40
2:H:2010:LEU:O	2:H:2014:VAL:HG23	2.20	0.40
2:H:2073:ASN:O	2:H:2076:LYS:N	2.54	0.40
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.46	0.40
2:I:48:LEU:HG	2:I:48:LEU:H	1.51	0.40
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.51	0.40
2:I:111:ARG:HE	2:I:111:ARG:HB2	1.73	0.40
2:I:351:LEU:O	2:I:390:VAL:HA	2.21	0.40
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.85	0.40
2:I:1455:GLN:HB2	2:I:1551:ILE:CG1	2.52	0.40
2:I:1861:PHE:O	2:I:1865:LEU:HG	2.21	0.40
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.50	0.40
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.03	0.40
2:J:685:VAL:HG13	2:J:686:PRO:HD2	2.03	0.40
2:J:1236:LEU:HD12	2:J:1242:ILE:HA	2.03	0.40
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.34	0.40
2:J:1406:ASN:HA	2:J:1411:LYS:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1515:LEU:HB2	2:J:1525:VAL:HG21	2.03	0.40
2:J:1517:LEU:CD2	2:J:1523:ILE:HD11	2.51	0.40
2:K:468:PRO:HA	2:K:479:ARG:HD3	2.03	0.40
2:K:535:THR:OG1	2:K:537:VAL:HG23	2.22	0.40
2:K:847:TYR:HA	2:K:856:THR:OG1	2.21	0.40
2:K:882:LYS:HD3	2:K:898:ARG:CZ	2.51	0.40
2:K:938:MET:HE1	2:K:959:THR:HA	2.03	0.40
2:K:1356:ALA:HB3	2:K:1397:THR:CG2	2.50	0.40
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.21	0.40
2:K:1803:THR:C	2:K:1805:PHE:N	2.74	0.40
2:L:297:THR:HG22	2:L:298:ALA:N	2.35	0.40
2:L:501:TRP:CZ2	2:L:528:THR:CG2	3.02	0.40
2:L:827:GLN:O	2:L:830:GLN:HB3	2.20	0.40
2:L:1455:GLN:HB2	2:L:1551:ILE:HG13	2.02	0.40
2:L:1464:LEU:HD13	2:L:1464:LEU:C	2.42	0.40
2:L:1507:VAL:HG23	2:L:1530:TYR:HE2	1.86	0.40
1:A:68:TYR:CD1	2:I:371:HIS:CD2	3.09	0.40
1:A:93:GLU:HA	1:A:94:PRO:HD3	1.82	0.40
1:A:340:LEU:HD12	1:F:347:LEU:HD12	2.02	0.40
1:A:347:LEU:HD12	1:F:340:LEU:HD12	2.02	0.40
1:A:746:PHE:CD1	1:A:800:PRO:HG3	2.56	0.40
1:A:1065:LYS:O	1:A:1069:GLU:HB2	2.21	0.40
1:A:1475:GLU:O	1:A:1478:ALA:HB3	2.21	0.40
1:A:1514:ILE:HD13	1:A:1545:LEU:CB	2.51	0.40
1:B:50:SER:HB2	1:B:52:THR:HG23	2.02	0.40
1:B:433:CYS:SG	1:B:473:LEU:HD13	2.61	0.40
1:B:554:ARG:O	1:B:555:GLN:HG3	2.20	0.40
1:B:1104:GLN:NE2	1:D:1106:LEU:HD12	2.36	0.40
1:B:1148:LEU:HA	1:B:1148:LEU:HD23	1.61	0.40
1:B:1393:VAL:N	1:B:1394:PRO:HD3	2.36	0.40
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.57	0.40
1:B:1536:ASP:O	1:B:1540:GLN:HG3	2.22	0.40
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.51	0.40
1:C:1405:ARG:HA	1:F:1697:LEU:O	2.21	0.40
1:C:1687:TYR:CD2	1:C:1687:TYR:N	2.88	0.40
1:D:650:PHE:CE2	1:D:881:LEU:HD22	2.57	0.40
1:E:452:ILE:HD13	1:E:452:ILE:HA	1.91	0.40
1:E:904:GLY:HA2	1:E:906:GLN:CD	2.41	0.40
1:E:1303:LEU:HD23	1:E:1303:LEU:HA	1.71	0.40
1:F:11:TYR:CD1	2:L:2027:LYS:HA	2.56	0.40
1:F:574:ILE:H	1:F:574:ILE:HG12	1.72	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1491:ASN:H	1:F:1491:ASN:ND2	2.19	0.40
2:G:48:LEU:HD13	2:G:83:VAL:HG22	2.03	0.40
2:G:216:ASP:CB	2:G:321:ARG:HH12	2.34	0.40
2:G:448:HIS:CD2	2:G:491:VAL:CG1	3.01	0.40
2:G:512:HIS:HE1	2:G:566:VAL:HG13	1.86	0.40
2:G:637:ASN:ND2	2:G:639:GLN:HB3	2.36	0.40
2:G:747:ARG:HH11	2:G:780:SER:CB	2.29	0.40
2:G:931:TYR:CD2	2:G:966:VAL:HG13	2.57	0.40
2:G:1321:VAL:HG12	2:G:1322:ALA:N	2.36	0.40
2:G:1406:ASN:HA	2:G:1411:LYS:HA	2.02	0.40
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.57	0.40
2:G:1520:LYS:HD2	2:G:1520:LYS:N	2.36	0.40
2:G:1624:ALA:HB2	2:G:1665:ILE:HD13	2.03	0.40
2:G:1891:ILE:HG22	2:G:1892:SER:N	2.35	0.40
2:G:1904:VAL:HG13	2:G:1915:LEU:HD23	2.04	0.40
2:H:220:GLN:O	2:H:222:PRO:HD3	2.20	0.40
2:H:271:GLU:H	2:H:274:GLU:CG	2.34	0.40
2:H:461:PRO:HB3	2:H:483:ASP:O	2.21	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.81	0.40
2:H:617:PHE:CD1	2:H:822:ALA:CA	3.04	0.40
2:H:1067:LEU:HD12	2:H:1067:LEU:N	2.36	0.40
2:H:1257:VAL:HA	2:H:1258:PRO:HD3	1.77	0.40
2:H:1517:LEU:CD2	2:H:1523:ILE:HD11	2.51	0.40
2:H:1845:VAL:CG2	2:H:1856:LEU:HD22	2.49	0.40
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	2.02	0.40
2:H:2058:VAL:CG1	2:H:2067:ILE:HD12	2.51	0.40
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.74	0.40
2:I:656:ARG:NH1	2:I:656:ARG:CG	2.80	0.40
2:I:676:LEU:HA	2:I:679:ARG:NH2	2.36	0.40
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.83	0.40
2:I:917:ARG:NH1	2:I:921:GLY:O	2.55	0.40
2:I:1321:VAL:HG12	2:I:1322:ALA:N	2.36	0.40
2:J:416:GLN:C	2:J:418:ARG:H	2.24	0.40
2:J:512:HIS:HE1	2:J:566:VAL:HG13	1.87	0.40
2:J:536:GLY:HA2	2:J:569:ALA:O	2.22	0.40
2:J:637:ASN:ND2	2:J:639:GLN:HB3	2.35	0.40
2:J:690:LEU:HB2	2:J:711:ILE:HG21	2.03	0.40
2:J:759:GLN:N	2:J:760:PRO:CD	2.85	0.40
2:J:796:TRP:CG	2:J:797:SER:N	2.89	0.40
2:J:1309:PHE:N	2:J:1309:PHE:CD1	2.89	0.40
2:J:1473:PHE:CE1	2:J:1513:VAL:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1507:VAL:HG23	2:J:1530:TYR:HE2	1.87	0.40
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.84	0.40
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.51	0.40
2:K:670:MET:HB3	2:K:670:MET:HE2	1.82	0.40
2:K:759:GLN:N	2:K:760:PRO:CD	2.83	0.40
2:K:1081:GLU:HG2	2:K:1086:ILE:HG12	2.03	0.40
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.37	0.40
2:L:605:VAL:O	2:L:628:ILE:HA	2.20	0.40
2:L:854:VAL:HA	2:L:867:LYS:O	2.21	0.40
2:L:876:TRP:C	2:L:876:TRP:HD1	2.21	0.40
2:L:937:ARG:CZ	2:L:941:LEU:HD11	2.50	0.40
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.84	0.40
2:L:1278:MET:HA	2:L:1281:ARG:HB2	2.03	0.40
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	2.03	0.40
2:L:1934:ARG:O	2:L:1938:THR:HG23	2.21	0.40
1:A:681:ILE:O	1:A:681:ILE:HG23	2.21	0.40
1:A:1094:LYS:HE3	1:A:1316:TYR:CG	2.54	0.40
1:A:1435:TRP:HD1	1:E:1427:LEU:HD11	1.86	0.40
1:A:1467:LEU:HD23	1:A:1467:LEU:HA	1.90	0.40
1:A:1562:THR:HB	1:A:1572:TRP:CZ3	2.56	0.40
1:A:1584:GLY:HA2	1:A:1617:ILE:HD12	2.03	0.40
1:A:1617:ILE:N	1:A:1617:ILE:CD1	2.79	0.40
1:B:1514:ILE:CD1	1:B:1545:LEU:HB3	2.51	0.40
1:C:537:ASN:HB2	1:C:585:MET:SD	2.61	0.40
1:C:1223:GLY:CA	1:C:1276:PRO:HD2	2.51	0.40
1:C:1545:LEU:HD23	1:C:1545:LEU:HA	1.62	0.40
1:D:21:GLN:O	2:J:2006:HIS:HD2	2.03	0.40
1:D:709:LEU:HD23	1:D:709:LEU:HA	1.81	0.40
1:D:1162:GLY:O	1:D:1354:SER:HA	2.21	0.40
1:D:1232:LEU:HD23	1:D:1253:SER:HB2	2.03	0.40
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.85	0.40
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.54	0.40
1:F:632:LEU:O	1:F:633:THR:C	2.59	0.40
1:F:726:VAL:HG21	1:F:780:ALA:HB3	2.04	0.40
1:F:970:LEU:HA	1:F:971:PRO:HD3	1.98	0.40
1:F:1107:GLU:CG	1:F:1108:PRO:HD2	2.40	0.40
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.78	0.40
2:G:237:GLN:HA	2:G:238:PRO:HD3	1.87	0.40
2:G:382:LEU:HG	2:G:390:VAL:HB	2.02	0.40
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.22	0.40
2:G:906:LEU:HD22	2:G:906:LEU:HA	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1410:GLY:HA2	2:G:1437:GLY:H	1.86	0.40
2:G:1708:LEU:O	2:G:1708:LEU:HD22	2.21	0.40
2:H:196:PHE:CD1	2:H:266:LYS:HB3	2.57	0.40
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.22	0.40
2:H:785:SER:O	2:H:789:TYR:HB2	2.21	0.40
2:H:887:ASP:O	2:H:888:ARG:C	2.60	0.40
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.21	0.40
2:H:2031:ASP:C	2:H:2033:SER:N	2.74	0.40
4:H:2101:FMN:HO2'	4:H:2101:FMN:C10	2.32	0.40
2:I:162:ALA:CA	2:I:167:VAL:HG22	2.49	0.40
2:I:538:ARG:HD2	2:I:539:VAL:H	1.87	0.40
2:I:541:LEU:HG	2:I:552:VAL:HG11	2.02	0.40
2:I:717:LYS:N	2:I:718:PRO:HD3	2.37	0.40
2:I:815:ARG:NH2	2:I:1086:ILE:CG2	2.85	0.40
2:I:930:THR:O	2:I:934:VAL:HG23	2.21	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:I:1236:LEU:HD12	2:I:1242:ILE:HA	2.03	0.40
2:I:1293:TRP:NE1	2:I:1354:TRP:HZ2	2.18	0.40
2:I:1384:PRO:HB3	2:I:1829:ARG:HH12	1.86	0.40
2:I:1410:GLY:HA2	2:I:1437:GLY:H	1.86	0.40
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	2.04	0.40
2:I:2050:ILE:O	2:I:2050:ILE:HG12	2.21	0.40
2:J:279:PHE:HB2	2:J:467:ILE:HD12	2.02	0.40
2:J:290:VAL:HB	2:J:315:LEU:HD11	2.03	0.40
2:J:501:TRP:CZ2	2:J:528:THR:CG2	3.04	0.40
2:J:511:THR:O	2:J:512:HIS:CD2	2.75	0.40
2:J:817:MET:HE2	2:J:817:MET:HB3	1.84	0.40
2:J:890:LYS:HE3	2:J:890:LYS:HB2	1.78	0.40
2:J:1040:TYR:CE1	2:J:1044:LYS:HD2	2.57	0.40
2:J:1171:TRP:CG	2:J:1172:ARG:N	2.90	0.40
2:J:1810:LEU:HD23	2:J:1810:LEU:HA	1.85	0.40
2:J:1910:VAL:HG11	2:J:1973:ILE:CG2	2.51	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	2.03	0.40
2:K:376:ARG:NH2	2:L:1340:LYS:CG	2.85	0.40
2:K:396:ILE:HD12	2:K:396:ILE:N	2.36	0.40
2:K:529:ASN:ND2	2:K:552:VAL:HG23	2.34	0.40
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.52	0.40
2:K:907:ASN:HD21	2:K:917:ARG:HE	1.69	0.40
2:K:1472:TRP:CD2	2:K:1540:VAL:HG22	2.56	0.40
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.22	0.40
2:K:1884:CYS:CB	2:K:1936:LEU:HD12	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:540:ILE:HD13	2:L:557:GLU:HB2	2.04	0.40
2:L:856:THR:HG23	2:L:866:HIS:NE2	2.36	0.40
2:L:890:LYS:HB2	2:L:890:LYS:HE3	1.79	0.40
2:L:1041:TRP:CE3	2:L:1041:TRP:HA	2.56	0.40
2:L:1236:LEU:HD21	2:L:1239:ASP:O	2.21	0.40
2:L:1316:VAL:HG21	2:L:1393:ASP:HB2	2.04	0.40
2:L:1358:THR:O	2:L:1361:ILE:HG13	2.22	0.40
2:L:1577:ASN:OD1	2:L:1607:THR:HA	2.21	0.40
2:L:1764:MET:HG3	2:L:1781:PHE:CD1	2.56	0.40
2:L:1769:VAL:HG22	2:L:1775:ILE:HG23	2.03	0.40
2:L:1880:ASN:HB3	2:L:1881:TYR:CE1	2.56	0.40
1:A:12:THR:CG2	2:G:2066:LYS:HD3	2.51	0.40
1:A:47:ILE:CD1	2:G:1818:PHE:CD1	3.04	0.40
1:A:996:VAL:HG11	1:A:1578:LEU:HD11	2.04	0.40
1:A:1104:GLN:HG3	1:A:1105:ASP:O	2.22	0.40
1:A:1268:SER:OG	1:A:1686:PRO:HD3	2.21	0.40
1:A:1527:THR:OG1	1:A:1530:ASN:HB3	2.21	0.40
1:B:904:GLY:HA2	1:B:906:GLN:CD	2.41	0.40
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.39	0.40
1:B:1363:MET:HE3	1:B:1368:ALA:CB	2.52	0.40
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.21	0.40
1:B:1599:MET:HA	1:B:1602:PHE:HD2	1.87	0.40
1:C:681:ILE:O	1:C:681:ILE:HG23	2.21	0.40
1:C:759:ILE:HD12	1:C:759:ILE:N	2.37	0.40
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.21	0.40
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.21	0.40
1:C:1440:TYR:O	1:C:1444:GLN:HB2	2.21	0.40
1:C:1466:TYR:CE2	1:C:1470:ARG:HG3	2.56	0.40
1:E:405:TRP:CH2	1:E:1609:SER:HB3	2.56	0.40
1:E:612:ILE:CD1	1:E:628:TYR:HD2	2.34	0.40
1:E:636:TYR:CE1	1:E:883:LEU:HD23	2.57	0.40
1:E:650:PHE:CE2	1:E:881:LEU:HD22	2.57	0.40
1:E:782:LYS:NZ	1:E:786:LYS:HD2	2.35	0.40
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	2.03	0.40
1:E:1191:LEU:HD23	1:E:1191:LEU:HA	1.95	0.40
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.21	0.40
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.55	0.40
1:F:1199:LEU:HD23	1:F:1199:LEU:O	2.22	0.40
1:F:1301:VAL:HG22	1:F:1302:CYS:H	1.86	0.40
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.41	0.40
2:G:220:GLN:O	2:G:222:PRO:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:613:VAL:H	2:G:614:PRO:HD3	1.85	0.40
2:G:789:TYR:O	2:G:792:LEU:HB3	2.22	0.40
2:G:797:SER:O	2:G:802:TYR:HB2	2.21	0.40
2:G:1083:ILE:HG13	2:G:1083:ILE:H	1.48	0.40
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.22	0.40
2:G:1745:LEU:HD12	2:G:1746:THR:H	1.86	0.40
2:G:1951:ILE:H	2:G:1951:ILE:HD12	1.86	0.40
2:G:2073:ASN:O	2:G:2076:LYS:N	2.54	0.40
2:H:111:ARG:HE	2:H:111:ARG:HB2	1.71	0.40
2:H:169:ILE:HG22	2:H:279:PHE:CD2	2.57	0.40
2:H:221:TYR:N	2:H:222:PRO:HD3	2.35	0.40
2:H:472:THR:HG22	2:H:473:LYS:N	2.37	0.40
2:H:747:ARG:NH2	2:H:757:PHE:CE1	2.90	0.40
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.22	0.40
2:H:875:PHE:HE2	2:H:906:LEU:HD23	1.87	0.40
2:H:1236:LEU:HD12	2:H:1242:ILE:HA	2.03	0.40
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.87	0.40
2:H:1313:ARG:HG3	2:H:1394:VAL:CG1	2.52	0.40
2:H:1706:MET:HE2	2:H:1738:VAL:CG1	2.51	0.40
2:H:1734:ILE:HG13	2:H:1735:ILE:N	2.36	0.40
2:H:1891:ILE:HG22	2:H:1892:SER:N	2.36	0.40
2:H:1933:LEU:HB3	2:H:1987:VAL:HB	2.03	0.40
2:I:138:ARG:HB2	2:I:192:THR:HA	2.03	0.40
2:I:637:ASN:ND2	2:I:639:GLN:HB3	2.37	0.40
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.34	0.40
2:I:1067:LEU:CB	4:I:2101:FMN:HM82	2.52	0.40
2:I:1488:LEU:HB2	2:I:1490:PHE:HE1	1.86	0.40
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.21	0.40
2:I:1702:GLN:HE21	2:I:1702:GLN:HB2	1.68	0.40
2:I:1845:VAL:CB	2:I:1856:LEU:HD22	2.52	0.40
2:I:1865:LEU:O	2:I:1869:VAL:HG22	2.21	0.40
2:J:48:LEU:HD11	2:J:101:VAL:HG21	2.03	0.40
2:J:186:LEU:HD23	2:J:186:LEU:HA	1.82	0.40
2:J:497:ASP:HA	2:J:498:PRO:HD3	1.92	0.40
2:J:1250:ARG:H	2:J:1250:ARG:HD3	1.86	0.40
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.80	0.40
2:J:1342:PHE:HE2	2:J:1391:VAL:CB	2.34	0.40
2:J:1350:ILE:HD13	2:J:1610:MET:SD	2.62	0.40
2:J:1645:PRO:O	2:J:1646:ASN:HB2	2.21	0.40
2:J:1873:ARG:NH1	2:J:2002:ASP:CB	2.83	0.40
2:J:1880:ASN:HB3	2:J:1881:TYR:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:24:LEU:CD1	2:K:37:VAL:HG21	2.48	0.40
2:K:123:ALA:O	2:K:126:VAL:HG23	2.22	0.40
2:K:314:LEU:HG	2:K:318:ILE:CD1	2.45	0.40
2:K:791:TYR:HD2	2:K:796:TRP:CG	2.40	0.40
2:K:955:LEU:HD21	2:K:1026:LYS:O	2.21	0.40
2:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.54	0.40
2:K:1470:LYS:HA	2:K:1470:LYS:HD3	1.90	0.40
2:K:1573:ALA:HA	2:K:1574:PRO:HD3	1.98	0.40
2:K:1733:SER:O	2:K:1737:ILE:HG13	2.22	0.40
2:L:245:SER:HA	2:L:436:THR:OG1	2.22	0.40
2:L:350:MET:HG3	2:L:435:ILE:CB	2.52	0.40
2:L:521:VAL:O	2:L:521:VAL:HG12	2.21	0.40
2:L:815:ARG:NH2	2:L:1086:ILE:CG2	2.84	0.40
2:L:1171:TRP:CG	2:L:1172:ARG:N	2.89	0.40
2:L:1400:GLN:N	2:L:1400:GLN:HE21	2.20	0.40
2:L:1726:PHE:CE1	2:L:1857:VAL:HB	2.56	0.40
2:L:1933:LEU:HB3	2:L:1987:VAL:HB	2.03	0.40
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.78	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:575:ARG:NH1	2:H:164:GLU:O[2_555]	2.01	0.19
1:B:1452:SER:O	2:G:1092:ASN:ND2[1_556]	2.18	0.02

5.3 Torsion angles [\(i\)](#)

5.3.1 Protein backbone [\(i\)](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1451/1878 (77%)	1270 (88%)	164 (11%)	17 (1%)	13 44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1458/1878 (78%)	1278 (88%)	160 (11%)	20 (1%)	11	40
1	C	1456/1878 (78%)	1283 (88%)	156 (11%)	17 (1%)	13	44
1	D	1461/1878 (78%)	1276 (87%)	161 (11%)	24 (2%)	9	37
1	E	1450/1878 (77%)	1276 (88%)	155 (11%)	19 (1%)	12	42
1	F	1455/1878 (78%)	1282 (88%)	153 (10%)	20 (1%)	11	40
2	G	2058/2060 (100%)	1789 (87%)	237 (12%)	32 (2%)	9	37
2	H	2058/2060 (100%)	1791 (87%)	230 (11%)	37 (2%)	8	34
2	I	2058/2060 (100%)	1787 (87%)	238 (12%)	33 (2%)	9	37
2	J	2058/2060 (100%)	1784 (87%)	240 (12%)	34 (2%)	9	36
2	K	2058/2060 (100%)	1785 (87%)	239 (12%)	34 (2%)	9	36
2	L	2058/2060 (100%)	1780 (86%)	241 (12%)	37 (2%)	8	34
All	All	21079/23628 (89%)	18381 (87%)	2374 (11%)	324 (2%)	10	39

All (324) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	614	PHE
1	A	1566	LYS
1	B	614	PHE
1	B	624	GLY
1	B	1566	LYS
1	C	614	PHE
1	C	624	GLY
1	C	1566	LYS
1	D	614	PHE
1	D	624	GLY
1	D	1566	LYS
1	E	614	PHE
1	E	624	GLY
1	E	1566	LYS
1	F	613	PRO
1	F	614	PHE
1	F	624	GLY
1	F	1566	LYS
2	G	780	SER
2	G	1986	PRO
2	G	2036	ILE
2	H	1986	PRO

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Mol	Chain	Res	Type
2	H	2036	ILE
2	I	780	SER
2	I	1986	PRO
2	I	2036	ILE
2	J	780	SER
2	J	1986	PRO
2	J	2036	ILE
2	K	499	VAL
2	K	780	SER
2	K	1986	PRO
2	K	2036	ILE
2	L	780	SER
2	L	1986	PRO
2	L	2036	ILE
1	A	624	GLY
1	A	809	GLY
1	B	609	VAL
1	B	809	GLY
1	B	1166	THR
1	B	1226	VAL
1	C	425	VAL
1	C	809	GLY
1	C	812	GLY
1	C	1166	THR
1	D	425	VAL
1	D	527	ALA
1	D	809	GLY
1	D	1226	VAL
1	E	425	VAL
1	E	809	GLY
1	F	809	GLY
1	F	1226	VAL
2	G	520	GLY
2	G	665	VAL
2	G	742	GLN
2	G	1987	VAL
2	H	499	VAL
2	H	520	GLY
2	H	665	VAL
2	H	780	SER
2	H	1987	VAL
2	I	520	GLY

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Mol	Chain	Res	Type
2	I	665	VAL
2	I	1987	VAL
2	J	520	GLY
2	J	665	VAL
2	J	742	GLN
2	J	1987	VAL
2	K	520	GLY
2	K	665	VAL
2	K	742	GLN
2	K	1987	VAL
2	L	499	VAL
2	L	520	GLY
2	L	665	VAL
2	L	742	GLN
2	L	1987	VAL
1	A	425	VAL
1	A	426	ASP
1	A	846	TRP
1	A	1226	VAL
1	B	425	VAL
1	B	426	ASP
1	B	812	GLY
1	C	82	CYS
1	C	426	ASP
1	C	1226	VAL
1	D	82	CYS
1	D	426	ASP
1	D	526	MET
1	D	812	GLY
1	D	1166	THR
1	E	426	ASP
1	E	1166	THR
1	F	425	VAL
1	F	426	ASP
2	G	111	ARG
2	G	499	VAL
2	G	989	PRO
2	G	1212	PRO
2	G	1363	PRO
2	G	1891	ILE
2	H	111	ARG
2	H	742	GLN

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Mol	Chain	Res	Type
2	H	989	PRO
2	H	1212	PRO
2	H	1363	PRO
2	H	1961	SER
2	H	2012	SER
2	I	111	ARG
2	I	499	VAL
2	I	742	GLN
2	I	989	PRO
2	I	1212	PRO
2	I	1363	PRO
2	I	1891	ILE
2	J	111	ARG
2	J	499	VAL
2	J	989	PRO
2	J	1212	PRO
2	J	1363	PRO
2	J	1891	ILE
2	K	111	ARG
2	K	753	SER
2	K	989	PRO
2	K	1212	PRO
2	K	1363	PRO
2	K	1891	ILE
2	K	2012	SER
2	L	111	ARG
2	L	753	SER
2	L	989	PRO
2	L	1212	PRO
2	L	1363	PRO
2	L	1891	ILE
1	A	82	CYS
1	A	812	GLY
1	A	850	THR
1	A	1593	ASP
1	B	82	CYS
1	B	557	ARG
1	B	846	TRP
1	B	850	THR
1	B	1593	ASP
1	C	66	GLU
1	C	846	TRP

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Mol	Chain	Res	Type
1	D	66	GLU
1	D	546	ARG
1	D	582	SER
1	D	846	TRP
1	D	1468	ARG
1	E	66	GLU
1	E	82	CYS
1	E	812	GLY
1	E	846	TRP
1	E	1226	VAL
1	E	1593	ASP
1	F	82	CYS
1	F	812	GLY
1	F	846	TRP
1	F	1593	ASP
2	G	609	THR
2	G	1923	ALA
2	G	2076	LYS
2	H	609	THR
2	H	753	SER
2	H	1739	LYS
2	H	1891	ILE
2	I	753	SER
2	I	841	ASP
2	I	1961	SER
2	I	2012	SER
2	J	609	THR
2	J	841	ASP
2	J	2012	SER
2	K	609	THR
2	K	1279	GLU
2	L	609	THR
2	L	1739	LYS
2	L	1961	SER
2	L	2012	SER
1	A	66	GLU
1	A	546	ARG
1	A	703	GLY
1	B	66	GLU
1	C	850	THR
1	C	1593	ASP
1	D	556	HIS

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Mol	Chain	Res	Type
1	D	850	THR
1	D	1593	ASP
1	E	850	THR
1	E	1468	ARG
1	F	66	GLU
1	F	535	TYR
1	F	703	GLY
1	F	850	THR
1	F	1166	THR
2	G	127	ALA
2	G	602	PRO
2	G	753	SER
2	G	841	ASP
2	G	2012	SER
2	H	127	ALA
2	H	602	PRO
2	H	841	ASP
2	H	1752	PRO
2	H	1923	ALA
2	H	2076	LYS
2	I	609	THR
2	I	1739	LYS
2	I	1752	PRO
2	I	1859	VAL
2	I	2076	LYS
2	J	915	PHE
2	J	1752	PRO
2	J	1859	VAL
2	J	1923	ALA
2	J	1961	SER
2	K	602	PRO
2	K	841	ASP
2	K	869	ALA
2	K	1114	GLU
2	K	1739	LYS
2	K	1752	PRO
2	K	2076	LYS
2	L	602	PRO
2	L	841	ASP
2	L	1859	VAL
2	L	1923	ALA
1	A	556	HIS

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Mol	Chain	Res	Type
1	A	1468	ARG
1	B	703	GLY
1	B	1468	ARG
1	C	1468	ARG
1	D	606	PRO
1	D	703	GLY
1	E	556	HIS
1	E	703	GLY
1	F	1468	ARG
2	G	1688	PRO
2	G	1859	VAL
2	H	653	PRO
2	H	1859	VAL
2	I	653	PRO
2	I	1923	ALA
2	J	602	PRO
2	J	753	SER
2	J	1114	GLU
2	J	2076	LYS
2	K	498	PRO
2	K	616	ASP
2	K	803	PRO
2	K	1961	SER
2	L	127	ALA
2	L	480	GLU
2	L	653	PRO
2	L	1267	PRO
2	L	1752	PRO
1	D	1524	GLY
2	G	803	PRO
2	H	1258	PRO
2	H	1267	PRO
2	I	602	PRO
2	I	1632	VAL
2	J	519	GLY
2	J	653	PRO
2	J	1632	VAL
2	K	653	PRO
2	K	1267	PRO
2	L	803	PRO
2	L	1258	PRO
1	B	1524	GLY

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Mol	Chain	Res	Type
1	C	1524	GLY
1	F	1064	VAL
1	F	1524	GLY
2	G	498	PRO
2	G	1258	PRO
2	G	1267	PRO
2	G	1632	VAL
2	G	1752	PRO
2	H	57	PRO
2	H	498	PRO
2	H	803	PRO
2	H	1688	PRO
2	I	1316	VAL
2	J	1258	PRO
2	J	1267	PRO
2	K	57	PRO
2	L	498	PRO
1	D	1064	VAL
1	E	1524	GLY
2	G	57	PRO
2	G	653	PRO
2	H	1750	GLY
2	I	57	PRO
2	I	1258	PRO
2	I	1267	PRO
2	J	57	PRO
2	K	250	PHE
2	K	1258	PRO
2	L	57	PRO
2	L	1632	VAL
2	L	1750	GLY
2	L	2047	PRO
1	B	1064	VAL
1	C	1064	VAL
1	E	1064	VAL
2	G	250	PHE
2	H	1632	VAL
2	H	2047	PRO
2	I	153	PRO
2	I	498	PRO
2	I	2047	PRO
2	J	153	PRO

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Mol	Chain	Res	Type
2	J	498	PRO
2	J	803	PRO
2	K	153	PRO
2	L	153	PRO
2	L	250	PHE
2	L	521	VAL
2	H	153	PRO
2	H	250	PHE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1220/1527 (80%)	1107 (91%)	113 (9%)	9	32
1	B	1227/1527 (80%)	1117 (91%)	110 (9%)	9	34
1	C	1225/1527 (80%)	1110 (91%)	115 (9%)	8	32
1	D	1229/1527 (80%)	1107 (90%)	122 (10%)	8	29
1	E	1219/1527 (80%)	1106 (91%)	113 (9%)	9	32
1	F	1224/1527 (80%)	1111 (91%)	113 (9%)	9	33
2	G	1752/1752 (100%)	1569 (90%)	183 (10%)	7	27
2	H	1752/1752 (100%)	1569 (90%)	183 (10%)	7	27
2	I	1752/1752 (100%)	1565 (89%)	187 (11%)	6	26
2	J	1752/1752 (100%)	1567 (89%)	185 (11%)	6	26
2	K	1752/1752 (100%)	1566 (89%)	186 (11%)	6	26
2	L	1752/1752 (100%)	1563 (89%)	189 (11%)	6	25
All	All	17856/19674 (91%)	16057 (90%)	1799 (10%)	7	28

All (1799) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	12	THR

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Mol	Chain	Res	Type
1	A	21	GLN
1	A	27	ARG
1	A	60	THR
1	A	61	LEU
1	A	352	ARG
1	A	358	PHE
1	A	361	SER
1	A	365	GLN
1	A	368	LEU
1	A	397	ARG
1	A	400	ASP
1	A	409	ASP
1	A	424	VAL
1	A	427	ARG
1	A	439	ARG
1	A	441	ASN
1	A	443	LEU
1	A	444	LEU
1	A	448	MET
1	A	486	VAL
1	A	492	ILE
1	A	513	ARG
1	A	547	SER
1	A	552	ILE
1	A	557	ARG
1	A	561	SER
1	A	562	SER
1	A	564	LEU
1	A	570	TYR
1	A	575	ARG
1	A	628	TYR
1	A	684	THR
1	A	687	PHE
1	A	696	GLN
1	A	709	LEU
1	A	725	LEU
1	A	736	LEU
1	A	754	ARG
1	A	770	MET
1	A	772	THR
1	A	783	THR
1	A	793	ARG

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Mol	Chain	Res	Type
1	A	813	LEU
1	A	815	SER
1	A	817	SER
1	A	837	LEU
1	A	843	VAL
1	A	850	THR
1	A	854	SER
1	A	869	ARG
1	A	883	LEU
1	A	911	LEU
1	A	919	ARG
1	A	946	GLU
1	A	980	LEU
1	A	984	LEU
1	A	988	VAL
1	A	995	VAL
1	A	999	LEU
1	A	1017	TYR
1	A	1022	LEU
1	A	1039	ASN
1	A	1042	LEU
1	A	1079	ARG
1	A	1093	ARG
1	A	1106	LEU
1	A	1107	GLU
1	A	1157	ASP
1	A	1158	ARG
1	A	1186	VAL
1	A	1226	VAL
1	A	1232	LEU
1	A	1249	ILE
1	A	1258	MET
1	A	1267	LEU
1	A	1273	ILE
1	A	1288	ASP
1	A	1308	ASP
1	A	1313	GLU
1	A	1317	GLU
1	A	1324	THR
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR

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Mol	Chain	Res	Type
1	A	1360	GLN
1	A	1361	VAL
1	A	1366	GLN
1	A	1367	LEU
1	A	1386	THR
1	A	1401	LEU
1	A	1418	ILE
1	A	1422	ARG
1	A	1457	GLU
1	A	1491	ASN
1	A	1504	ARG
1	A	1509	THR
1	A	1514	ILE
1	A	1538	ILE
1	A	1545	LEU
1	A	1553	VAL
1	A	1561	LEU
1	A	1564	HIS
1	A	1593	ASP
1	A	1603	ASP
1	A	1606	VAL
1	A	1617	ILE
1	A	1623	THR
1	A	1662	GLN
1	A	1673	LEU
1	A	1702	ARG
1	A	1707	SER
1	B	1	MET
1	B	12	THR
1	B	21	GLN
1	B	27	ARG
1	B	60	THR
1	B	61	LEU
1	B	352	ARG
1	B	361	SER
1	B	365	GLN
1	B	368	LEU
1	B	397	ARG
1	B	400	ASP
1	B	409	ASP
1	B	414	TYR
1	B	424	VAL

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Mol	Chain	Res	Type
1	B	427	ARG
1	B	439	ARG
1	B	441	ASN
1	B	443	LEU
1	B	444	LEU
1	B	448	MET
1	B	486	VAL
1	B	492	ILE
1	B	513	ARG
1	B	547	SER
1	B	551	LEU
1	B	557	ARG
1	B	567	ASN
1	B	574	ILE
1	B	628	TYR
1	B	684	THR
1	B	687	PHE
1	B	696	GLN
1	B	709	LEU
1	B	725	LEU
1	B	736	LEU
1	B	754	ARG
1	B	770	MET
1	B	772	THR
1	B	783	THR
1	B	793	ARG
1	B	813	LEU
1	B	815	SER
1	B	817	SER
1	B	837	LEU
1	B	843	VAL
1	B	850	THR
1	B	854	SER
1	B	869	ARG
1	B	883	LEU
1	B	911	LEU
1	B	919	ARG
1	B	980	LEU
1	B	984	LEU
1	B	988	VAL
1	B	995	VAL
1	B	999	LEU

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Mol	Chain	Res	Type
1	B	1017	TYR
1	B	1022	LEU
1	B	1039	ASN
1	B	1042	LEU
1	B	1079	ARG
1	B	1093	ARG
1	B	1106	LEU
1	B	1107	GLU
1	B	1157	ASP
1	B	1158	ARG
1	B	1226	VAL
1	B	1232	LEU
1	B	1249	ILE
1	B	1258	MET
1	B	1267	LEU
1	B	1273	ILE
1	B	1288	ASP
1	B	1308	ASP
1	B	1313	GLU
1	B	1317	GLU
1	B	1342	ARG
1	B	1344	THR
1	B	1347	THR
1	B	1353	GLU
1	B	1360	GLN
1	B	1361	VAL
1	B	1366	GLN
1	B	1367	LEU
1	B	1386	THR
1	B	1401	LEU
1	B	1418	ILE
1	B	1422	ARG
1	B	1457	GLU
1	B	1464	THR
1	B	1482	GLU
1	B	1491	ASN
1	B	1504	ARG
1	B	1509	THR
1	B	1514	ILE
1	B	1538	ILE
1	B	1545	LEU
1	B	1553	VAL

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Mol	Chain	Res	Type
1	B	1561	LEU
1	B	1564	HIS
1	B	1593	ASP
1	B	1603	ASP
1	B	1606	VAL
1	B	1617	ILE
1	B	1623	THR
1	B	1662	GLN
1	B	1673	LEU
1	B	1702	ARG
1	B	1707	SER
1	C	1	MET
1	C	12	THR
1	C	21	GLN
1	C	27	ARG
1	C	60	THR
1	C	61	LEU
1	C	352	ARG
1	C	358	PHE
1	C	361	SER
1	C	365	GLN
1	C	368	LEU
1	C	397	ARG
1	C	400	ASP
1	C	409	ASP
1	C	414	TYR
1	C	424	VAL
1	C	427	ARG
1	C	439	ARG
1	C	441	ASN
1	C	443	LEU
1	C	444	LEU
1	C	448	MET
1	C	465	LEU
1	C	486	VAL
1	C	492	ILE
1	C	513	ARG
1	C	536	SER
1	C	547	SER
1	C	551	LEU
1	C	557	ARG
1	C	567	ASN

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Mol	Chain	Res	Type
1	C	574	ILE
1	C	628	TYR
1	C	684	THR
1	C	687	PHE
1	C	696	GLN
1	C	709	LEU
1	C	725	LEU
1	C	736	LEU
1	C	754	ARG
1	C	770	MET
1	C	772	THR
1	C	783	THR
1	C	793	ARG
1	C	813	LEU
1	C	815	SER
1	C	817	SER
1	C	837	LEU
1	C	843	VAL
1	C	850	THR
1	C	854	SER
1	C	869	ARG
1	C	883	LEU
1	C	909	PRO
1	C	911	LEU
1	C	919	ARG
1	C	946	GLU
1	C	980	LEU
1	C	984	LEU
1	C	988	VAL
1	C	995	VAL
1	C	999	LEU
1	C	1017	TYR
1	C	1022	LEU
1	C	1039	ASN
1	C	1042	LEU
1	C	1061	ASP
1	C	1079	ARG
1	C	1093	ARG
1	C	1106	LEU
1	C	1107	GLU
1	C	1157	ASP
1	C	1158	ARG

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Mol	Chain	Res	Type
1	C	1183	VAL
1	C	1226	VAL
1	C	1232	LEU
1	C	1249	ILE
1	C	1258	MET
1	C	1267	LEU
1	C	1273	ILE
1	C	1288	ASP
1	C	1313	GLU
1	C	1317	GLU
1	C	1342	ARG
1	C	1344	THR
1	C	1347	THR
1	C	1360	GLN
1	C	1361	VAL
1	C	1366	GLN
1	C	1367	LEU
1	C	1386	THR
1	C	1401	LEU
1	C	1418	ILE
1	C	1422	ARG
1	C	1457	GLU
1	C	1464	THR
1	C	1482	GLU
1	C	1491	ASN
1	C	1504	ARG
1	C	1509	THR
1	C	1514	ILE
1	C	1538	ILE
1	C	1545	LEU
1	C	1553	VAL
1	C	1561	LEU
1	C	1589	ASN
1	C	1593	ASP
1	C	1603	ASP
1	C	1606	VAL
1	C	1617	ILE
1	C	1623	THR
1	C	1662	GLN
1	C	1673	LEU
1	C	1702	ARG
1	C	1707	SER

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Mol	Chain	Res	Type
1	D	1	MET
1	D	12	THR
1	D	21	GLN
1	D	27	ARG
1	D	60	THR
1	D	61	LEU
1	D	352	ARG
1	D	358	PHE
1	D	361	SER
1	D	365	GLN
1	D	368	LEU
1	D	397	ARG
1	D	400	ASP
1	D	409	ASP
1	D	414	TYR
1	D	424	VAL
1	D	427	ARG
1	D	439	ARG
1	D	441	ASN
1	D	443	LEU
1	D	444	LEU
1	D	448	MET
1	D	465	LEU
1	D	486	VAL
1	D	492	ILE
1	D	513	ARG
1	D	547	SER
1	D	552	ILE
1	D	557	ARG
1	D	561	SER
1	D	562	SER
1	D	564	LEU
1	D	570	TYR
1	D	575	ARG
1	D	579	MET
1	D	581	GLU
1	D	582	SER
1	D	584	ILE
1	D	628	TYR
1	D	684	THR
1	D	687	PHE
1	D	696	GLN

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Mol	Chain	Res	Type
1	D	709	LEU
1	D	725	LEU
1	D	736	LEU
1	D	754	ARG
1	D	770	MET
1	D	772	THR
1	D	783	THR
1	D	793	ARG
1	D	813	LEU
1	D	815	SER
1	D	817	SER
1	D	837	LEU
1	D	843	VAL
1	D	850	THR
1	D	854	SER
1	D	869	ARG
1	D	883	LEU
1	D	911	LEU
1	D	919	ARG
1	D	946	GLU
1	D	980	LEU
1	D	984	LEU
1	D	988	VAL
1	D	995	VAL
1	D	999	LEU
1	D	1022	LEU
1	D	1039	ASN
1	D	1042	LEU
1	D	1061	ASP
1	D	1079	ARG
1	D	1093	ARG
1	D	1106	LEU
1	D	1107	GLU
1	D	1157	ASP
1	D	1158	ARG
1	D	1226	VAL
1	D	1229	THR
1	D	1232	LEU
1	D	1249	ILE
1	D	1258	MET
1	D	1267	LEU
1	D	1273	ILE

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Mol	Chain	Res	Type
1	D	1288	ASP
1	D	1313	GLU
1	D	1317	GLU
1	D	1342	ARG
1	D	1344	THR
1	D	1347	THR
1	D	1360	GLN
1	D	1361	VAL
1	D	1366	GLN
1	D	1367	LEU
1	D	1386	THR
1	D	1387	ASP
1	D	1401	LEU
1	D	1418	ILE
1	D	1422	ARG
1	D	1441	LEU
1	D	1457	GLU
1	D	1464	THR
1	D	1482	GLU
1	D	1491	ASN
1	D	1504	ARG
1	D	1509	THR
1	D	1514	ILE
1	D	1538	ILE
1	D	1545	LEU
1	D	1553	VAL
1	D	1561	LEU
1	D	1564	HIS
1	D	1589	ASN
1	D	1593	ASP
1	D	1603	ASP
1	D	1606	VAL
1	D	1617	ILE
1	D	1623	THR
1	D	1646	LEU
1	D	1662	GLN
1	D	1673	LEU
1	D	1702	ARG
1	E	1	MET
1	E	12	THR
1	E	21	GLN
1	E	27	ARG

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Mol	Chain	Res	Type
1	E	60	THR
1	E	61	LEU
1	E	352	ARG
1	E	358	PHE
1	E	361	SER
1	E	365	GLN
1	E	368	LEU
1	E	397	ARG
1	E	400	ASP
1	E	409	ASP
1	E	414	TYR
1	E	424	VAL
1	E	427	ARG
1	E	439	ARG
1	E	441	ASN
1	E	443	LEU
1	E	444	LEU
1	E	448	MET
1	E	486	VAL
1	E	492	ILE
1	E	513	ARG
1	E	547	SER
1	E	552	ILE
1	E	557	ARG
1	E	562	SER
1	E	564	LEU
1	E	570	TYR
1	E	628	TYR
1	E	684	THR
1	E	687	PHE
1	E	696	GLN
1	E	709	LEU
1	E	713	PRO
1	E	725	LEU
1	E	736	LEU
1	E	754	ARG
1	E	770	MET
1	E	772	THR
1	E	783	THR
1	E	793	ARG
1	E	813	LEU
1	E	815	SER

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Mol	Chain	Res	Type
1	E	817	SER
1	E	837	LEU
1	E	843	VAL
1	E	850	THR
1	E	869	ARG
1	E	883	LEU
1	E	911	LEU
1	E	919	ARG
1	E	946	GLU
1	E	980	LEU
1	E	984	LEU
1	E	988	VAL
1	E	995	VAL
1	E	999	LEU
1	E	1022	LEU
1	E	1039	ASN
1	E	1042	LEU
1	E	1061	ASP
1	E	1079	ARG
1	E	1093	ARG
1	E	1106	LEU
1	E	1107	GLU
1	E	1157	ASP
1	E	1158	ARG
1	E	1186	VAL
1	E	1226	VAL
1	E	1232	LEU
1	E	1249	ILE
1	E	1258	MET
1	E	1267	LEU
1	E	1273	ILE
1	E	1288	ASP
1	E	1313	GLU
1	E	1317	GLU
1	E	1324	THR
1	E	1342	ARG
1	E	1344	THR
1	E	1347	THR
1	E	1360	GLN
1	E	1361	VAL
1	E	1366	GLN
1	E	1367	LEU

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Mol	Chain	Res	Type
1	E	1386	THR
1	E	1401	LEU
1	E	1418	ILE
1	E	1422	ARG
1	E	1457	GLU
1	E	1464	THR
1	E	1482	GLU
1	E	1491	ASN
1	E	1504	ARG
1	E	1509	THR
1	E	1514	ILE
1	E	1538	ILE
1	E	1545	LEU
1	E	1553	VAL
1	E	1561	LEU
1	E	1564	HIS
1	E	1593	ASP
1	E	1603	ASP
1	E	1606	VAL
1	E	1617	ILE
1	E	1623	THR
1	E	1662	GLN
1	E	1673	LEU
1	E	1702	ARG
1	E	1708	ASN
1	F	1	MET
1	F	12	THR
1	F	21	GLN
1	F	27	ARG
1	F	60	THR
1	F	61	LEU
1	F	352	ARG
1	F	361	SER
1	F	365	GLN
1	F	368	LEU
1	F	397	ARG
1	F	400	ASP
1	F	409	ASP
1	F	414	TYR
1	F	424	VAL
1	F	427	ARG
1	F	441	ASN

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Mol	Chain	Res	Type
1	F	443	LEU
1	F	444	LEU
1	F	448	MET
1	F	492	ILE
1	F	513	ARG
1	F	533	SER
1	F	535	TYR
1	F	547	SER
1	F	551	LEU
1	F	557	ARG
1	F	567	ASN
1	F	574	ILE
1	F	585	MET
1	F	612	ILE
1	F	613	PRO
1	F	628	TYR
1	F	684	THR
1	F	687	PHE
1	F	696	GLN
1	F	709	LEU
1	F	725	LEU
1	F	736	LEU
1	F	754	ARG
1	F	770	MET
1	F	772	THR
1	F	783	THR
1	F	793	ARG
1	F	813	LEU
1	F	815	SER
1	F	817	SER
1	F	837	LEU
1	F	843	VAL
1	F	850	THR
1	F	854	SER
1	F	869	ARG
1	F	883	LEU
1	F	911	LEU
1	F	919	ARG
1	F	980	LEU
1	F	984	LEU
1	F	988	VAL
1	F	995	VAL

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Mol	Chain	Res	Type
1	F	999	LEU
1	F	1022	LEU
1	F	1039	ASN
1	F	1042	LEU
1	F	1061	ASP
1	F	1079	ARG
1	F	1093	ARG
1	F	1106	LEU
1	F	1107	GLU
1	F	1157	ASP
1	F	1158	ARG
1	F	1226	VAL
1	F	1232	LEU
1	F	1249	ILE
1	F	1258	MET
1	F	1267	LEU
1	F	1273	ILE
1	F	1288	ASP
1	F	1308	ASP
1	F	1313	GLU
1	F	1317	GLU
1	F	1342	ARG
1	F	1344	THR
1	F	1347	THR
1	F	1353	GLU
1	F	1360	GLN
1	F	1361	VAL
1	F	1366	GLN
1	F	1367	LEU
1	F	1386	THR
1	F	1401	LEU
1	F	1418	ILE
1	F	1422	ARG
1	F	1441	LEU
1	F	1457	GLU
1	F	1491	ASN
1	F	1504	ARG
1	F	1509	THR
1	F	1514	ILE
1	F	1538	ILE
1	F	1545	LEU
1	F	1553	VAL

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Mol	Chain	Res	Type
1	F	1561	LEU
1	F	1564	HIS
1	F	1565	PRO
1	F	1593	ASP
1	F	1603	ASP
1	F	1606	VAL
1	F	1617	ILE
1	F	1623	THR
1	F	1662	GLN
1	F	1673	LEU
1	F	1702	ARG
1	F	1707	SER
2	G	30	SER
2	G	31	LEU
2	G	37	VAL
2	G	62	GLU
2	G	63	LEU
2	G	126	VAL
2	G	134	ILE
2	G	155	ASP
2	G	158	LEU
2	G	167	VAL
2	G	216	ASP
2	G	218	VAL
2	G	252	LEU
2	G	262	MET
2	G	276	LEU
2	G	295	ILE
2	G	300	THR
2	G	302	ASP
2	G	317	TRP
2	G	329	THR
2	G	339	SER
2	G	346	THR
2	G	351	LEU
2	G	356	LEU
2	G	375	ASP
2	G	382	LEU
2	G	387	ARG
2	G	388	ASN
2	G	401	LEU
2	G	436	THR

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Mol	Chain	Res	Type
2	G	464	SER
2	G	472	THR
2	G	474	THR
2	G	477	ASP
2	G	484	GLU
2	G	486	ILE
2	G	489	GLU
2	G	549	ASN
2	G	570	VAL
2	G	583	THR
2	G	600	VAL
2	G	604	MET
2	G	609	THR
2	G	616	ASP
2	G	618	VAL
2	G	652	ILE
2	G	663	ILE
2	G	670	MET
2	G	690	LEU
2	G	709	LEU
2	G	726	GLN
2	G	727	VAL
2	G	747	ARG
2	G	757	PHE
2	G	763	LEU
2	G	786	GLU
2	G	814	SER
2	G	818	THR
2	G	820	LYS
2	G	827	GLN
2	G	843	TRP
2	G	846	THR
2	G	855	ILE
2	G	856	THR
2	G	870	THR
2	G	876	TRP
2	G	878	GLU
2	G	883	ILE
2	G	900	ASP
2	G	903	ILE
2	G	906	LEU
2	G	909	ASP

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Mol	Chain	Res	Type
2	G	917	ARG
2	G	918	ASN
2	G	924	VAL
2	G	935	VAL
2	G	944	VAL
2	G	964	ARG
2	G	971	THR
2	G	979	LEU
2	G	995	ARG
2	G	1004	SER
2	G	1007	LEU
2	G	1008	ILE
2	G	1009	ASN
2	G	1036	GLU
2	G	1047	LEU
2	G	1050	SER
2	G	1063	ARG
2	G	1065	CYS
2	G	1071	VAL
2	G	1079	ILE
2	G	1083	ILE
2	G	1086	ILE
2	G	1104	ASP
2	G	1171	TRP
2	G	1180	VAL
2	G	1186	ARG
2	G	1194	ARG
2	G	1200	ARG
2	G	1207	THR
2	G	1217	ILE
2	G	1225	SER
2	G	1234	ILE
2	G	1235	LYS
2	G	1246	LEU
2	G	1250	ARG
2	G	1259	LEU
2	G	1265	TYR
2	G	1266	HIS
2	G	1294	PHE
2	G	1299	VAL
2	G	1302	ASP
2	G	1305	LEU

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Mol	Chain	Res	Type
2	G	1309	PHE
2	G	1313	ARG
2	G	1338	ARG
2	G	1351	VAL
2	G	1373	LEU
2	G	1383	VAL
2	G	1391	VAL
2	G	1400	GLN
2	G	1405	ILE
2	G	1409	SER
2	G	1421	ARG
2	G	1424	LYS
2	G	1431	SER
2	G	1436	ARG
2	G	1444	ASN
2	G	1462	GLN
2	G	1467	LEU
2	G	1483	LEU
2	G	1484	LEU
2	G	1487	THR
2	G	1496	VAL
2	G	1523	ILE
2	G	1541	ILE
2	G	1563	LEU
2	G	1564	SER
2	G	1590	ILE
2	G	1593	SER
2	G	1594	ARG
2	G	1595	VAL
2	G	1602	LEU
2	G	1622	THR
2	G	1628	ASN
2	G	1639	MET
2	G	1643	VAL
2	G	1655	HIS
2	G	1674	THR
2	G	1690	THR
2	G	1707	ASP
2	G	1708	LEU
2	G	1709	TYR
2	G	1717	GLU
2	G	1740	ASN

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Mol	Chain	Res	Type
2	G	1745	LEU
2	G	1746	THR
2	G	1789	THR
2	G	1803	THR
2	G	1804	GLN
2	G	1812	LEU
2	G	1813	MET
2	G	1823	SER
2	G	1851	MET
2	G	1866	THR
2	G	1873	ARG
2	G	1896	THR
2	G	1900	LEU
2	G	1951	ILE
2	G	1965	VAL
2	G	1972	ILE
2	G	1977	ARG
2	G	1985	GLN
2	G	2008	THR
2	G	2009	PHE
2	G	2036	ILE
2	G	2039	TYR
2	G	2049	GLU
2	G	2052	LYS
2	G	2062	THR
2	G	2064	SER
2	G	2067	ILE
2	H	31	LEU
2	H	37	VAL
2	H	48	LEU
2	H	62	GLU
2	H	63	LEU
2	H	126	VAL
2	H	134	ILE
2	H	155	ASP
2	H	158	LEU
2	H	216	ASP
2	H	218	VAL
2	H	252	LEU
2	H	262	MET
2	H	276	LEU
2	H	289	ILE

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Mol	Chain	Res	Type
2	H	295	ILE
2	H	300	THR
2	H	302	ASP
2	H	317	TRP
2	H	329	THR
2	H	334	SER
2	H	339	SER
2	H	346	THR
2	H	351	LEU
2	H	356	LEU
2	H	375	ASP
2	H	382	LEU
2	H	387	ARG
2	H	388	ASN
2	H	401	LEU
2	H	436	THR
2	H	464	SER
2	H	472	THR
2	H	474	THR
2	H	477	ASP
2	H	484	GLU
2	H	486	ILE
2	H	489	GLU
2	H	549	ASN
2	H	570	VAL
2	H	583	THR
2	H	600	VAL
2	H	604	MET
2	H	609	THR
2	H	616	ASP
2	H	618	VAL
2	H	652	ILE
2	H	663	ILE
2	H	670	MET
2	H	690	LEU
2	H	709	LEU
2	H	726	GLN
2	H	727	VAL
2	H	747	ARG
2	H	757	PHE
2	H	763	LEU
2	H	780	SER

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Mol	Chain	Res	Type
2	H	814	SER
2	H	818	THR
2	H	820	LYS
2	H	827	GLN
2	H	843	TRP
2	H	846	THR
2	H	855	ILE
2	H	856	THR
2	H	870	THR
2	H	876	TRP
2	H	878	GLU
2	H	883	ILE
2	H	900	ASP
2	H	903	ILE
2	H	906	LEU
2	H	909	ASP
2	H	917	ARG
2	H	918	ASN
2	H	924	VAL
2	H	935	VAL
2	H	944	VAL
2	H	964	ARG
2	H	971	THR
2	H	979	LEU
2	H	984	SER
2	H	995	ARG
2	H	1004	SER
2	H	1007	LEU
2	H	1008	ILE
2	H	1009	ASN
2	H	1036	GLU
2	H	1047	LEU
2	H	1063	ARG
2	H	1065	CYS
2	H	1071	VAL
2	H	1079	ILE
2	H	1083	ILE
2	H	1086	ILE
2	H	1104	ASP
2	H	1171	TRP
2	H	1180	VAL
2	H	1186	ARG

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Mol	Chain	Res	Type
2	H	1194	ARG
2	H	1200	ARG
2	H	1207	THR
2	H	1217	ILE
2	H	1225	SER
2	H	1234	ILE
2	H	1235	LYS
2	H	1246	LEU
2	H	1250	ARG
2	H	1259	LEU
2	H	1265	TYR
2	H	1266	HIS
2	H	1294	PHE
2	H	1299	VAL
2	H	1302	ASP
2	H	1305	LEU
2	H	1309	PHE
2	H	1313	ARG
2	H	1338	ARG
2	H	1351	VAL
2	H	1373	LEU
2	H	1383	VAL
2	H	1391	VAL
2	H	1400	GLN
2	H	1405	ILE
2	H	1409	SER
2	H	1421	ARG
2	H	1424	LYS
2	H	1431	SER
2	H	1436	ARG
2	H	1444	ASN
2	H	1462	GLN
2	H	1467	LEU
2	H	1483	LEU
2	H	1484	LEU
2	H	1487	THR
2	H	1496	VAL
2	H	1523	ILE
2	H	1563	LEU
2	H	1564	SER
2	H	1583	VAL
2	H	1590	ILE

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Mol	Chain	Res	Type
2	H	1593	SER
2	H	1594	ARG
2	H	1595	VAL
2	H	1602	LEU
2	H	1622	THR
2	H	1628	ASN
2	H	1639	MET
2	H	1643	VAL
2	H	1655	HIS
2	H	1674	THR
2	H	1690	THR
2	H	1707	ASP
2	H	1708	LEU
2	H	1709	TYR
2	H	1717	GLU
2	H	1740	ASN
2	H	1745	LEU
2	H	1746	THR
2	H	1789	THR
2	H	1792	THR
2	H	1804	GLN
2	H	1812	LEU
2	H	1813	MET
2	H	1823	SER
2	H	1866	THR
2	H	1873	ARG
2	H	1896	THR
2	H	1900	LEU
2	H	1951	ILE
2	H	1965	VAL
2	H	1972	ILE
2	H	1977	ARG
2	H	1985	GLN
2	H	2008	THR
2	H	2009	PHE
2	H	2036	ILE
2	H	2039	TYR
2	H	2049	GLU
2	H	2052	LYS
2	H	2062	THR
2	H	2064	SER
2	H	2067	ILE

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Mol	Chain	Res	Type
2	I	31	LEU
2	I	37	VAL
2	I	48	LEU
2	I	62	GLU
2	I	63	LEU
2	I	126	VAL
2	I	134	ILE
2	I	155	ASP
2	I	158	LEU
2	I	167	VAL
2	I	195	SER
2	I	218	VAL
2	I	252	LEU
2	I	262	MET
2	I	276	LEU
2	I	295	ILE
2	I	300	THR
2	I	302	ASP
2	I	317	TRP
2	I	329	THR
2	I	339	SER
2	I	346	THR
2	I	351	LEU
2	I	356	LEU
2	I	375	ASP
2	I	382	LEU
2	I	387	ARG
2	I	388	ASN
2	I	401	LEU
2	I	436	THR
2	I	464	SER
2	I	472	THR
2	I	474	THR
2	I	477	ASP
2	I	484	GLU
2	I	486	ILE
2	I	489	GLU
2	I	549	ASN
2	I	570	VAL
2	I	583	THR
2	I	600	VAL
2	I	604	MET

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Mol	Chain	Res	Type
2	I	609	THR
2	I	616	ASP
2	I	618	VAL
2	I	652	ILE
2	I	663	ILE
2	I	670	MET
2	I	690	LEU
2	I	709	LEU
2	I	726	GLN
2	I	727	VAL
2	I	747	ARG
2	I	757	PHE
2	I	763	LEU
2	I	814	SER
2	I	818	THR
2	I	820	LYS
2	I	827	GLN
2	I	843	TRP
2	I	846	THR
2	I	855	ILE
2	I	856	THR
2	I	857	VAL
2	I	870	THR
2	I	876	TRP
2	I	878	GLU
2	I	883	ILE
2	I	900	ASP
2	I	903	ILE
2	I	906	LEU
2	I	909	ASP
2	I	917	ARG
2	I	918	ASN
2	I	924	VAL
2	I	935	VAL
2	I	944	VAL
2	I	964	ARG
2	I	971	THR
2	I	979	LEU
2	I	995	ARG
2	I	1004	SER
2	I	1007	LEU
2	I	1008	ILE

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Mol	Chain	Res	Type
2	I	1009	ASN
2	I	1028	VAL
2	I	1036	GLU
2	I	1047	LEU
2	I	1050	SER
2	I	1053	ILE
2	I	1061	VAL
2	I	1063	ARG
2	I	1065	CYS
2	I	1071	VAL
2	I	1079	ILE
2	I	1083	ILE
2	I	1086	ILE
2	I	1104	ASP
2	I	1171	TRP
2	I	1180	VAL
2	I	1186	ARG
2	I	1194	ARG
2	I	1200	ARG
2	I	1207	THR
2	I	1217	ILE
2	I	1225	SER
2	I	1234	ILE
2	I	1235	LYS
2	I	1246	LEU
2	I	1250	ARG
2	I	1259	LEU
2	I	1265	TYR
2	I	1266	HIS
2	I	1290	TYR
2	I	1294	PHE
2	I	1299	VAL
2	I	1302	ASP
2	I	1305	LEU
2	I	1309	PHE
2	I	1313	ARG
2	I	1338	ARG
2	I	1351	VAL
2	I	1373	LEU
2	I	1383	VAL
2	I	1391	VAL
2	I	1400	GLN

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Mol	Chain	Res	Type
2	I	1405	ILE
2	I	1406	ASN
2	I	1409	SER
2	I	1421	ARG
2	I	1424	LYS
2	I	1431	SER
2	I	1444	ASN
2	I	1462	GLN
2	I	1467	LEU
2	I	1483	LEU
2	I	1484	LEU
2	I	1487	THR
2	I	1496	VAL
2	I	1505	SER
2	I	1523	ILE
2	I	1563	LEU
2	I	1564	SER
2	I	1590	ILE
2	I	1593	SER
2	I	1594	ARG
2	I	1595	VAL
2	I	1602	LEU
2	I	1622	THR
2	I	1628	ASN
2	I	1639	MET
2	I	1643	VAL
2	I	1655	HIS
2	I	1674	THR
2	I	1690	THR
2	I	1707	ASP
2	I	1708	LEU
2	I	1709	TYR
2	I	1717	GLU
2	I	1740	ASN
2	I	1745	LEU
2	I	1746	THR
2	I	1783	GLU
2	I	1789	THR
2	I	1792	THR
2	I	1803	THR
2	I	1804	GLN
2	I	1812	LEU

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Mol	Chain	Res	Type
2	I	1813	MET
2	I	1823	SER
2	I	1866	THR
2	I	1873	ARG
2	I	1896	THR
2	I	1900	LEU
2	I	1951	ILE
2	I	1965	VAL
2	I	1972	ILE
2	I	1977	ARG
2	I	1985	GLN
2	I	2009	PHE
2	I	2036	ILE
2	I	2039	TYR
2	I	2049	GLU
2	I	2052	LYS
2	I	2062	THR
2	I	2064	SER
2	I	2067	ILE
2	J	30	SER
2	J	31	LEU
2	J	37	VAL
2	J	48	LEU
2	J	62	GLU
2	J	63	LEU
2	J	126	VAL
2	J	134	ILE
2	J	155	ASP
2	J	158	LEU
2	J	167	VAL
2	J	218	VAL
2	J	252	LEU
2	J	262	MET
2	J	264	THR
2	J	276	LEU
2	J	295	ILE
2	J	300	THR
2	J	302	ASP
2	J	317	TRP
2	J	329	THR
2	J	339	SER
2	J	346	THR

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Mol	Chain	Res	Type
2	J	351	LEU
2	J	356	LEU
2	J	375	ASP
2	J	382	LEU
2	J	387	ARG
2	J	388	ASN
2	J	401	LEU
2	J	436	THR
2	J	464	SER
2	J	472	THR
2	J	474	THR
2	J	477	ASP
2	J	484	GLU
2	J	486	ILE
2	J	489	GLU
2	J	549	ASN
2	J	570	VAL
2	J	583	THR
2	J	600	VAL
2	J	604	MET
2	J	609	THR
2	J	616	ASP
2	J	618	VAL
2	J	652	ILE
2	J	663	ILE
2	J	670	MET
2	J	690	LEU
2	J	709	LEU
2	J	726	GLN
2	J	727	VAL
2	J	747	ARG
2	J	757	PHE
2	J	763	LEU
2	J	814	SER
2	J	818	THR
2	J	820	LYS
2	J	827	GLN
2	J	843	TRP
2	J	846	THR
2	J	855	ILE
2	J	856	THR
2	J	857	VAL

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Mol	Chain	Res	Type
2	J	870	THR
2	J	876	TRP
2	J	878	GLU
2	J	883	ILE
2	J	900	ASP
2	J	903	ILE
2	J	906	LEU
2	J	909	ASP
2	J	917	ARG
2	J	918	ASN
2	J	924	VAL
2	J	935	VAL
2	J	944	VAL
2	J	964	ARG
2	J	971	THR
2	J	979	LEU
2	J	995	ARG
2	J	1004	SER
2	J	1007	LEU
2	J	1008	ILE
2	J	1009	ASN
2	J	1036	GLU
2	J	1047	LEU
2	J	1061	VAL
2	J	1063	ARG
2	J	1065	CYS
2	J	1071	VAL
2	J	1079	ILE
2	J	1083	ILE
2	J	1086	ILE
2	J	1104	ASP
2	J	1171	TRP
2	J	1180	VAL
2	J	1186	ARG
2	J	1194	ARG
2	J	1200	ARG
2	J	1207	THR
2	J	1217	ILE
2	J	1225	SER
2	J	1234	ILE
2	J	1235	LYS
2	J	1246	LEU

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Mol	Chain	Res	Type
2	J	1250	ARG
2	J	1259	LEU
2	J	1265	TYR
2	J	1266	HIS
2	J	1290	TYR
2	J	1294	PHE
2	J	1299	VAL
2	J	1302	ASP
2	J	1305	LEU
2	J	1309	PHE
2	J	1313	ARG
2	J	1338	ARG
2	J	1351	VAL
2	J	1373	LEU
2	J	1383	VAL
2	J	1391	VAL
2	J	1400	GLN
2	J	1405	ILE
2	J	1421	ARG
2	J	1424	LYS
2	J	1431	SER
2	J	1436	ARG
2	J	1444	ASN
2	J	1462	GLN
2	J	1467	LEU
2	J	1483	LEU
2	J	1484	LEU
2	J	1487	THR
2	J	1496	VAL
2	J	1523	ILE
2	J	1563	LEU
2	J	1564	SER
2	J	1590	ILE
2	J	1593	SER
2	J	1594	ARG
2	J	1595	VAL
2	J	1602	LEU
2	J	1622	THR
2	J	1628	ASN
2	J	1639	MET
2	J	1643	VAL
2	J	1655	HIS

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Mol	Chain	Res	Type
2	J	1674	THR
2	J	1690	THR
2	J	1707	ASP
2	J	1708	LEU
2	J	1709	TYR
2	J	1717	GLU
2	J	1740	ASN
2	J	1745	LEU
2	J	1746	THR
2	J	1783	GLU
2	J	1789	THR
2	J	1792	THR
2	J	1803	THR
2	J	1804	GLN
2	J	1812	LEU
2	J	1813	MET
2	J	1823	SER
2	J	1851	MET
2	J	1866	THR
2	J	1873	ARG
2	J	1896	THR
2	J	1900	LEU
2	J	1919	ASN
2	J	1951	ILE
2	J	1965	VAL
2	J	1972	ILE
2	J	1977	ARG
2	J	1985	GLN
2	J	2009	PHE
2	J	2036	ILE
2	J	2039	TYR
2	J	2049	GLU
2	J	2052	LYS
2	J	2062	THR
2	J	2064	SER
2	J	2067	ILE
2	K	30	SER
2	K	31	LEU
2	K	37	VAL
2	K	48	LEU
2	K	62	GLU
2	K	63	LEU

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Mol	Chain	Res	Type
2	K	126	VAL
2	K	155	ASP
2	K	158	LEU
2	K	167	VAL
2	K	218	VAL
2	K	252	LEU
2	K	262	MET
2	K	276	LEU
2	K	289	ILE
2	K	295	ILE
2	K	300	THR
2	K	302	ASP
2	K	317	TRP
2	K	329	THR
2	K	339	SER
2	K	346	THR
2	K	351	LEU
2	K	356	LEU
2	K	375	ASP
2	K	382	LEU
2	K	387	ARG
2	K	388	ASN
2	K	401	LEU
2	K	436	THR
2	K	464	SER
2	K	472	THR
2	K	474	THR
2	K	477	ASP
2	K	479	ARG
2	K	484	GLU
2	K	486	ILE
2	K	489	GLU
2	K	549	ASN
2	K	570	VAL
2	K	583	THR
2	K	600	VAL
2	K	604	MET
2	K	609	THR
2	K	616	ASP
2	K	618	VAL
2	K	652	ILE
2	K	663	ILE

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Mol	Chain	Res	Type
2	K	670	MET
2	K	690	LEU
2	K	709	LEU
2	K	726	GLN
2	K	727	VAL
2	K	747	ARG
2	K	757	PHE
2	K	763	LEU
2	K	780	SER
2	K	786	GLU
2	K	814	SER
2	K	818	THR
2	K	820	LYS
2	K	827	GLN
2	K	843	TRP
2	K	846	THR
2	K	855	ILE
2	K	856	THR
2	K	870	THR
2	K	876	TRP
2	K	878	GLU
2	K	883	ILE
2	K	900	ASP
2	K	903	ILE
2	K	906	LEU
2	K	909	ASP
2	K	917	ARG
2	K	918	ASN
2	K	924	VAL
2	K	935	VAL
2	K	944	VAL
2	K	964	ARG
2	K	971	THR
2	K	979	LEU
2	K	995	ARG
2	K	1004	SER
2	K	1007	LEU
2	K	1008	ILE
2	K	1009	ASN
2	K	1036	GLU
2	K	1047	LEU
2	K	1050	SER

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Mol	Chain	Res	Type
2	K	1061	VAL
2	K	1065	CYS
2	K	1071	VAL
2	K	1079	ILE
2	K	1083	ILE
2	K	1086	ILE
2	K	1104	ASP
2	K	1171	TRP
2	K	1180	VAL
2	K	1186	ARG
2	K	1194	ARG
2	K	1200	ARG
2	K	1207	THR
2	K	1217	ILE
2	K	1225	SER
2	K	1234	ILE
2	K	1235	LYS
2	K	1246	LEU
2	K	1250	ARG
2	K	1259	LEU
2	K	1265	TYR
2	K	1266	HIS
2	K	1294	PHE
2	K	1299	VAL
2	K	1302	ASP
2	K	1305	LEU
2	K	1309	PHE
2	K	1313	ARG
2	K	1338	ARG
2	K	1351	VAL
2	K	1373	LEU
2	K	1383	VAL
2	K	1391	VAL
2	K	1400	GLN
2	K	1405	ILE
2	K	1409	SER
2	K	1421	ARG
2	K	1424	LYS
2	K	1431	SER
2	K	1436	ARG
2	K	1444	ASN
2	K	1462	GLN

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Mol	Chain	Res	Type
2	K	1467	LEU
2	K	1483	LEU
2	K	1484	LEU
2	K	1487	THR
2	K	1496	VAL
2	K	1523	ILE
2	K	1563	LEU
2	K	1564	SER
2	K	1583	VAL
2	K	1590	ILE
2	K	1593	SER
2	K	1594	ARG
2	K	1595	VAL
2	K	1602	LEU
2	K	1622	THR
2	K	1628	ASN
2	K	1639	MET
2	K	1643	VAL
2	K	1655	HIS
2	K	1674	THR
2	K	1690	THR
2	K	1707	ASP
2	K	1708	LEU
2	K	1709	TYR
2	K	1717	GLU
2	K	1740	ASN
2	K	1745	LEU
2	K	1746	THR
2	K	1789	THR
2	K	1792	THR
2	K	1803	THR
2	K	1804	GLN
2	K	1812	LEU
2	K	1813	MET
2	K	1823	SER
2	K	1851	MET
2	K	1866	THR
2	K	1873	ARG
2	K	1896	THR
2	K	1900	LEU
2	K	1919	ASN
2	K	1951	ILE

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Mol	Chain	Res	Type
2	K	1965	VAL
2	K	1972	ILE
2	K	1977	ARG
2	K	1985	GLN
2	K	2009	PHE
2	K	2036	ILE
2	K	2039	TYR
2	K	2049	GLU
2	K	2052	LYS
2	K	2062	THR
2	K	2064	SER
2	K	2067	ILE
2	L	31	LEU
2	L	37	VAL
2	L	48	LEU
2	L	62	GLU
2	L	63	LEU
2	L	126	VAL
2	L	134	ILE
2	L	155	ASP
2	L	158	LEU
2	L	171	SER
2	L	196	PHE
2	L	216	ASP
2	L	218	VAL
2	L	252	LEU
2	L	262	MET
2	L	276	LEU
2	L	289	ILE
2	L	295	ILE
2	L	300	THR
2	L	302	ASP
2	L	317	TRP
2	L	329	THR
2	L	339	SER
2	L	346	THR
2	L	351	LEU
2	L	356	LEU
2	L	375	ASP
2	L	381	SER
2	L	382	LEU
2	L	387	ARG

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Mol	Chain	Res	Type
2	L	388	ASN
2	L	401	LEU
2	L	436	THR
2	L	464	SER
2	L	474	THR
2	L	477	ASP
2	L	484	GLU
2	L	486	ILE
2	L	489	GLU
2	L	549	ASN
2	L	570	VAL
2	L	583	THR
2	L	600	VAL
2	L	604	MET
2	L	609	THR
2	L	616	ASP
2	L	618	VAL
2	L	652	ILE
2	L	663	ILE
2	L	670	MET
2	L	690	LEU
2	L	709	LEU
2	L	726	GLN
2	L	727	VAL
2	L	747	ARG
2	L	757	PHE
2	L	763	LEU
2	L	814	SER
2	L	818	THR
2	L	820	LYS
2	L	821	GLU
2	L	827	GLN
2	L	843	TRP
2	L	846	THR
2	L	855	ILE
2	L	856	THR
2	L	857	VAL
2	L	870	THR
2	L	876	TRP
2	L	878	GLU
2	L	883	ILE
2	L	900	ASP

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Mol	Chain	Res	Type
2	L	903	ILE
2	L	906	LEU
2	L	909	ASP
2	L	917	ARG
2	L	918	ASN
2	L	924	VAL
2	L	935	VAL
2	L	944	VAL
2	L	964	ARG
2	L	971	THR
2	L	979	LEU
2	L	995	ARG
2	L	1004	SER
2	L	1007	LEU
2	L	1008	ILE
2	L	1009	ASN
2	L	1028	VAL
2	L	1036	GLU
2	L	1047	LEU
2	L	1050	SER
2	L	1061	VAL
2	L	1063	ARG
2	L	1065	CYS
2	L	1071	VAL
2	L	1079	ILE
2	L	1083	ILE
2	L	1086	ILE
2	L	1104	ASP
2	L	1171	TRP
2	L	1180	VAL
2	L	1186	ARG
2	L	1194	ARG
2	L	1200	ARG
2	L	1207	THR
2	L	1217	ILE
2	L	1225	SER
2	L	1234	ILE
2	L	1235	LYS
2	L	1246	LEU
2	L	1250	ARG
2	L	1259	LEU
2	L	1265	TYR

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Mol	Chain	Res	Type
2	L	1266	HIS
2	L	1294	PHE
2	L	1299	VAL
2	L	1302	ASP
2	L	1305	LEU
2	L	1309	PHE
2	L	1313	ARG
2	L	1338	ARG
2	L	1351	VAL
2	L	1373	LEU
2	L	1383	VAL
2	L	1391	VAL
2	L	1400	GLN
2	L	1405	ILE
2	L	1409	SER
2	L	1421	ARG
2	L	1424	LYS
2	L	1431	SER
2	L	1436	ARG
2	L	1444	ASN
2	L	1462	GLN
2	L	1467	LEU
2	L	1483	LEU
2	L	1484	LEU
2	L	1487	THR
2	L	1496	VAL
2	L	1505	SER
2	L	1523	ILE
2	L	1563	LEU
2	L	1564	SER
2	L	1583	VAL
2	L	1590	ILE
2	L	1593	SER
2	L	1594	ARG
2	L	1595	VAL
2	L	1602	LEU
2	L	1622	THR
2	L	1628	ASN
2	L	1639	MET
2	L	1643	VAL
2	L	1655	HIS
2	L	1674	THR

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Mol	Chain	Res	Type
2	L	1690	THR
2	L	1707	ASP
2	L	1708	LEU
2	L	1709	TYR
2	L	1717	GLU
2	L	1740	ASN
2	L	1745	LEU
2	L	1746	THR
2	L	1783	GLU
2	L	1789	THR
2	L	1792	THR
2	L	1804	GLN
2	L	1812	LEU
2	L	1813	MET
2	L	1823	SER
2	L	1851	MET
2	L	1866	THR
2	L	1873	ARG
2	L	1896	THR
2	L	1900	LEU
2	L	1951	ILE
2	L	1965	VAL
2	L	1972	ILE
2	L	1977	ARG
2	L	1985	GLN
2	L	2009	PHE
2	L	2036	ILE
2	L	2039	TYR
2	L	2049	GLU
2	L	2052	LYS
2	L	2062	THR
2	L	2064	SER
2	L	2067	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (492) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	75	GLN
1	A	404	ASN
1	A	408	GLN
1	A	454	HIS

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Mol	Chain	Res	Type
1	A	472	GLN
1	A	525	GLN
1	A	542	GLN
1	A	565	GLN
1	A	671	GLN
1	A	715	ASN
1	A	767	HIS
1	A	856	ASN
1	A	873	GLN
1	A	930	GLN
1	A	1038	HIS
1	A	1039	ASN
1	A	1075	HIS
1	A	1163	GLN
1	A	1214	HIS
1	A	1320	ASN
1	A	1366	GLN
1	A	1398	GLN
1	A	1431	GLN
1	A	1473	HIS
1	A	1486	GLN
1	A	1491	ASN
1	A	1530	ASN
1	A	1541	GLN
1	A	1544	HIS
1	A	1558	GLN
1	A	1589	ASN
1	A	1629	GLN
1	A	1662	GLN
1	B	21	GLN
1	B	75	GLN
1	B	371	GLN
1	B	404	ASN
1	B	408	GLN
1	B	454	HIS
1	B	472	GLN
1	B	525	GLN
1	B	715	ASN
1	B	767	HIS
1	B	856	ASN
1	B	873	GLN
1	B	930	GLN

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Mol	Chain	Res	Type
1	B	1038	HIS
1	B	1039	ASN
1	B	1075	HIS
1	B	1163	GLN
1	B	1214	HIS
1	B	1251	GLN
1	B	1320	ASN
1	B	1366	GLN
1	B	1486	GLN
1	B	1491	ASN
1	B	1530	ASN
1	B	1558	GLN
1	B	1589	ASN
1	B	1629	GLN
1	B	1633	GLN
1	B	1662	GLN
1	C	21	GLN
1	C	75	GLN
1	C	371	GLN
1	C	404	ASN
1	C	408	GLN
1	C	454	HIS
1	C	472	GLN
1	C	525	GLN
1	C	671	GLN
1	C	708	GLN
1	C	715	ASN
1	C	767	HIS
1	C	856	ASN
1	C	873	GLN
1	C	1038	HIS
1	C	1075	HIS
1	C	1214	HIS
1	C	1251	GLN
1	C	1320	ASN
1	C	1366	GLN
1	C	1473	HIS
1	C	1486	GLN
1	C	1491	ASN
1	C	1530	ASN
1	C	1541	GLN
1	C	1558	GLN

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Mol	Chain	Res	Type
1	C	1589	ASN
1	C	1629	GLN
1	C	1662	GLN
1	D	21	GLN
1	D	75	GLN
1	D	371	GLN
1	D	404	ASN
1	D	408	GLN
1	D	454	HIS
1	D	472	GLN
1	D	525	GLN
1	D	542	GLN
1	D	708	GLN
1	D	715	ASN
1	D	767	HIS
1	D	856	ASN
1	D	873	GLN
1	D	1038	HIS
1	D	1039	ASN
1	D	1075	HIS
1	D	1214	HIS
1	D	1251	GLN
1	D	1320	ASN
1	D	1431	GLN
1	D	1473	HIS
1	D	1486	GLN
1	D	1491	ASN
1	D	1530	ASN
1	D	1558	GLN
1	D	1589	ASN
1	D	1629	GLN
1	D	1633	GLN
1	D	1662	GLN
1	E	21	GLN
1	E	404	ASN
1	E	408	GLN
1	E	454	HIS
1	E	472	GLN
1	E	525	GLN
1	E	542	GLN
1	E	565	GLN
1	E	671	GLN

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Mol	Chain	Res	Type
1	E	708	GLN
1	E	715	ASN
1	E	767	HIS
1	E	856	ASN
1	E	873	GLN
1	E	930	GLN
1	E	962	ASN
1	E	1038	HIS
1	E	1039	ASN
1	E	1075	HIS
1	E	1163	GLN
1	E	1214	HIS
1	E	1251	GLN
1	E	1320	ASN
1	E	1366	GLN
1	E	1431	GLN
1	E	1473	HIS
1	E	1486	GLN
1	E	1491	ASN
1	E	1530	ASN
1	E	1558	GLN
1	E	1589	ASN
1	E	1629	GLN
1	E	1633	GLN
1	E	1662	GLN
1	F	21	GLN
1	F	75	GLN
1	F	404	ASN
1	F	408	GLN
1	F	454	HIS
1	F	472	GLN
1	F	525	GLN
1	F	671	GLN
1	F	715	ASN
1	F	767	HIS
1	F	856	ASN
1	F	873	GLN
1	F	930	GLN
1	F	1038	HIS
1	F	1039	ASN
1	F	1075	HIS
1	F	1163	GLN

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Mol	Chain	Res	Type
1	F	1214	HIS
1	F	1251	GLN
1	F	1320	ASN
1	F	1431	GLN
1	F	1473	HIS
1	F	1486	GLN
1	F	1491	ASN
1	F	1530	ASN
1	F	1558	GLN
1	F	1589	ASN
1	F	1629	GLN
1	F	1633	GLN
1	F	1662	GLN
1	F	1670	HIS
2	G	44	GLN
2	G	65	GLN
2	G	98	ASN
2	G	166	ASN
2	G	220	GLN
2	G	232	HIS
2	G	260	HIS
2	G	285	HIS
2	G	287	GLN
2	G	388	ASN
2	G	416	GLN
2	G	430	ASN
2	G	448	HIS
2	G	512	HIS
2	G	529	ASN
2	G	549	ASN
2	G	627	HIS
2	G	661	ASN
2	G	713	HIS
2	G	729	ASN
2	G	752	HIS
2	G	827	GLN
2	G	845	ASN
2	G	911	GLN
2	G	1006	GLN
2	G	1009	ASN
2	G	1014	GLN
2	G	1049	GLN

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Mol	Chain	Res	Type
2	G	1094	HIS
2	G	1109	ASN
2	G	1173	HIS
2	G	1378	ASN
2	G	1400	GLN
2	G	1455	GLN
2	G	1462	GLN
2	G	1500	ASN
2	G	1547	HIS
2	G	1638	ASN
2	G	1646	ASN
2	G	1655	HIS
2	G	1697	GLN
2	G	1702	GLN
2	G	1725	HIS
2	G	1729	ASN
2	G	1759	GLN
2	G	1804	GLN
2	G	1901	GLN
2	G	1919	ASN
2	G	1968	HIS
2	G	1974	GLN
2	G	2006	HIS
2	H	44	GLN
2	H	47	GLN
2	H	65	GLN
2	H	98	ASN
2	H	166	ASN
2	H	220	GLN
2	H	232	HIS
2	H	260	HIS
2	H	285	HIS
2	H	287	GLN
2	H	371	HIS
2	H	388	ASN
2	H	416	GLN
2	H	430	ASN
2	H	448	HIS
2	H	512	HIS
2	H	529	ASN
2	H	549	ASN
2	H	627	HIS

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Mol	Chain	Res	Type
2	H	661	ASN
2	H	713	HIS
2	H	729	ASN
2	H	752	HIS
2	H	827	GLN
2	H	845	ASN
2	H	911	GLN
2	H	1006	GLN
2	H	1009	ASN
2	H	1014	GLN
2	H	1094	HIS
2	H	1173	HIS
2	H	1378	ASN
2	H	1400	GLN
2	H	1455	GLN
2	H	1547	HIS
2	H	1638	ASN
2	H	1646	ASN
2	H	1655	HIS
2	H	1687	GLN
2	H	1697	GLN
2	H	1702	GLN
2	H	1725	HIS
2	H	1729	ASN
2	H	1759	GLN
2	H	1804	GLN
2	H	1901	GLN
2	H	1919	ASN
2	H	1968	HIS
2	H	1974	GLN
2	H	2006	HIS
2	H	2042	ASN
2	H	2059	HIS
2	I	44	GLN
2	I	65	GLN
2	I	98	ASN
2	I	166	ASN
2	I	220	GLN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN

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Mol	Chain	Res	Type
2	I	371	HIS
2	I	388	ASN
2	I	416	GLN
2	I	430	ASN
2	I	440	HIS
2	I	448	HIS
2	I	512	HIS
2	I	529	ASN
2	I	549	ASN
2	I	627	HIS
2	I	661	ASN
2	I	713	HIS
2	I	729	ASN
2	I	752	HIS
2	I	827	GLN
2	I	911	GLN
2	I	1006	GLN
2	I	1009	ASN
2	I	1094	HIS
2	I	1173	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1462	GLN
2	I	1547	HIS
2	I	1608	HIS
2	I	1638	ASN
2	I	1646	ASN
2	I	1655	HIS
2	I	1697	GLN
2	I	1702	GLN
2	I	1725	HIS
2	I	1729	ASN
2	I	1759	GLN
2	I	1804	GLN
2	I	1901	GLN
2	I	1919	ASN
2	I	1968	HIS
2	I	1974	GLN
2	I	2006	HIS
2	I	2042	ASN
2	J	42	HIS

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Mol	Chain	Res	Type
2	J	65	GLN
2	J	166	ASN
2	J	220	GLN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	388	ASN
2	J	416	GLN
2	J	430	ASN
2	J	448	HIS
2	J	512	HIS
2	J	529	ASN
2	J	549	ASN
2	J	627	HIS
2	J	661	ASN
2	J	713	HIS
2	J	729	ASN
2	J	752	HIS
2	J	827	GLN
2	J	845	ASN
2	J	911	GLN
2	J	1006	GLN
2	J	1009	ASN
2	J	1014	GLN
2	J	1094	HIS
2	J	1109	ASN
2	J	1173	HIS
2	J	1378	ASN
2	J	1400	GLN
2	J	1455	GLN
2	J	1547	HIS
2	J	1559	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1655	HIS
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1729	ASN
2	J	1748	HIS
2	J	1759	GLN

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Mol	Chain	Res	Type
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	1968	HIS
2	J	1974	GLN
2	J	2006	HIS
2	J	2059	HIS
2	K	65	GLN
2	K	166	ASN
2	K	220	GLN
2	K	232	HIS
2	K	260	HIS
2	K	285	HIS
2	K	287	GLN
2	K	371	HIS
2	K	388	ASN
2	K	416	GLN
2	K	430	ASN
2	K	440	HIS
2	K	448	HIS
2	K	512	HIS
2	K	529	ASN
2	K	549	ASN
2	K	627	HIS
2	K	661	ASN
2	K	713	HIS
2	K	729	ASN
2	K	752	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	1009	ASN
2	K	1014	GLN
2	K	1049	GLN
2	K	1094	HIS
2	K	1173	HIS
2	K	1378	ASN
2	K	1400	GLN
2	K	1455	GLN
2	K	1462	GLN
2	K	1500	ASN
2	K	1547	HIS

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Mol	Chain	Res	Type
2	K	1608	HIS
2	K	1638	ASN
2	K	1646	ASN
2	K	1655	HIS
2	K	1697	GLN
2	K	1702	GLN
2	K	1725	HIS
2	K	1729	ASN
2	K	1759	GLN
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	1926	GLN
2	K	1968	HIS
2	K	1974	GLN
2	K	2006	HIS
2	K	2059	HIS
2	L	65	GLN
2	L	166	ASN
2	L	220	GLN
2	L	232	HIS
2	L	260	HIS
2	L	285	HIS
2	L	287	GLN
2	L	371	HIS
2	L	388	ASN
2	L	416	GLN
2	L	430	ASN
2	L	440	HIS
2	L	448	HIS
2	L	512	HIS
2	L	529	ASN
2	L	549	ASN
2	L	627	HIS
2	L	661	ASN
2	L	713	HIS
2	L	729	ASN
2	L	752	HIS
2	L	827	GLN
2	L	845	ASN
2	L	911	GLN
2	L	1006	GLN

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Mol	Chain	Res	Type
2	L	1009	ASN
2	L	1014	GLN
2	L	1094	HIS
2	L	1109	ASN
2	L	1173	HIS
2	L	1378	ASN
2	L	1400	GLN
2	L	1455	GLN
2	L	1547	HIS
2	L	1638	ASN
2	L	1646	ASN
2	L	1655	HIS
2	L	1687	GLN
2	L	1697	GLN
2	L	1702	GLN
2	L	1725	HIS
2	L	1729	ASN
2	L	1759	GLN
2	L	1804	GLN
2	L	1901	GLN
2	L	1919	ASN
2	L	1968	HIS
2	L	1974	GLN
2	L	2006	HIS
2	L	2059	HIS

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

18 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	NAP	D	1901	-	45,52,52	1.44	4 (8%)	56,80,80	1.26	2 (3%)
3	NAP	H	2102	-	45,52,52	1.27	4 (8%)	56,80,80	1.12	1 (1%)
4	FMN	I	2101	-	33,33,33	6.14	21 (63%)	48,50,50	1.33	9 (18%)
3	NAP	J	2102	-	45,52,52	1.30	4 (8%)	56,80,80	1.13	1 (1%)
3	NAP	G	2102	-	45,52,52	1.26	4 (8%)	56,80,80	1.12	2 (3%)
3	NAP	A	1901	-	45,52,52	1.29	3 (6%)	56,80,80	1.18	3 (5%)
4	FMN	H	2101	-	33,33,33	6.22	21 (63%)	48,50,50	1.25	6 (12%)
3	NAP	E	1901	-	45,52,52	1.28	3 (6%)	56,80,80	1.26	4 (7%)
4	FMN	J	2101	-	33,33,33	6.47	23 (69%)	48,50,50	1.33	7 (14%)
3	NAP	I	2102	-	45,52,52	1.18	3 (6%)	56,80,80	1.14	1 (1%)
4	FMN	L	2101	-	33,33,33	6.19	21 (63%)	48,50,50	1.34	10 (20%)
3	NAP	L	2102	-	45,52,52	1.24	4 (8%)	56,80,80	1.11	1 (1%)
3	NAP	F	1901	-	45,52,52	1.30	3 (6%)	56,80,80	1.20	3 (5%)
3	NAP	B	1901	-	45,52,52	1.25	3 (6%)	56,80,80	1.19	3 (5%)
3	NAP	K	2102	-	45,52,52	1.22	4 (8%)	56,80,80	1.09	2 (3%)
3	NAP	C	1901	-	45,52,52	1.33	4 (8%)	56,80,80	1.20	2 (3%)
4	FMN	K	2101	-	33,33,33	6.40	23 (69%)	48,50,50	1.43	9 (18%)
4	FMN	G	2101	-	33,33,33	6.20	21 (63%)	48,50,50	1.33	10 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAP	D	1901	-	-	11/31/67/67	0/5/5/5
3	NAP	H	2102	-	-	10/31/67/67	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	FMN	I	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	J	2102	-	-	10/31/67/67	0/5/5/5
3	NAP	G	2102	-	-	11/31/67/67	0/5/5/5
3	NAP	A	1901	-	-	11/31/67/67	0/5/5/5
4	FMN	H	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	E	1901	-	-	11/31/67/67	0/5/5/5
4	FMN	J	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	I	2102	-	-	10/31/67/67	0/5/5/5
4	FMN	L	2101	-	-	5/18/18/18	0/3/3/3
3	NAP	L	2102	-	-	10/31/67/67	0/5/5/5
3	NAP	F	1901	-	-	11/31/67/67	0/5/5/5
3	NAP	B	1901	-	-	11/31/67/67	0/5/5/5
3	NAP	K	2102	-	-	11/31/67/67	0/5/5/5
3	NAP	C	1901	-	-	11/31/67/67	0/5/5/5
4	FMN	K	2101	-	-	5/18/18/18	0/3/3/3
4	FMN	G	2101	-	-	5/18/18/18	0/3/3/3

All (173) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	2101	FMN	C9-C9A	12.70	1.60	1.39
4	J	2101	FMN	C9-C9A	12.69	1.60	1.39
4	J	2101	FMN	C9-C8	12.66	1.58	1.39
4	K	2101	FMN	C9-C9A	12.66	1.60	1.39
4	J	2101	FMN	C6-C7	12.58	1.58	1.39
4	K	2101	FMN	C6-C7	12.52	1.57	1.39
4	I	2101	FMN	C9-C9A	12.38	1.59	1.39
4	H	2101	FMN	C6-C7	12.37	1.57	1.39
4	G	2101	FMN	C9-C9A	12.29	1.59	1.39
4	L	2101	FMN	C9-C9A	12.27	1.59	1.39
4	J	2101	FMN	C6-C5A	12.07	1.58	1.40
4	G	2101	FMN	C6-C7	11.98	1.57	1.39
4	K	2101	FMN	C6-C5A	11.87	1.58	1.40
4	G	2101	FMN	C9-C8	11.84	1.56	1.39
4	G	2101	FMN	C6-C5A	11.81	1.58	1.40
4	L	2101	FMN	C6-C5A	11.80	1.58	1.40
4	I	2101	FMN	C6-C7	11.76	1.56	1.39
4	H	2101	FMN	C6-C5A	11.72	1.58	1.40
4	I	2101	FMN	C6-C5A	11.71	1.58	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	2101	FMN	C6-C7	11.70	1.56	1.39
4	K	2101	FMN	C9-C8	11.67	1.56	1.39
4	H	2101	FMN	C9-C8	11.56	1.56	1.39
4	I	2101	FMN	C9-C8	11.32	1.56	1.39
4	L	2101	FMN	C9-C8	11.25	1.56	1.39
4	K	2101	FMN	C4A-N5	10.48	1.51	1.30
4	J	2101	FMN	C4A-N5	10.28	1.50	1.30
4	H	2101	FMN	C4A-N5	10.20	1.50	1.30
4	I	2101	FMN	C4A-N5	10.18	1.50	1.30
4	L	2101	FMN	C4A-N5	10.02	1.50	1.30
4	G	2101	FMN	C4A-N5	9.93	1.50	1.30
4	J	2101	FMN	O4-C4	9.46	1.41	1.23
4	K	2101	FMN	O2-C2	9.40	1.41	1.24
4	K	2101	FMN	O4-C4	9.33	1.41	1.23
4	G	2101	FMN	O4-C4	9.29	1.41	1.23
4	L	2101	FMN	O2-C2	9.13	1.41	1.24
4	G	2101	FMN	O2-C2	9.10	1.41	1.24
4	I	2101	FMN	O4-C4	9.07	1.40	1.23
4	H	2101	FMN	O4-C4	9.06	1.40	1.23
4	I	2101	FMN	O2-C2	8.99	1.40	1.24
4	J	2101	FMN	O2-C2	8.96	1.40	1.24
4	L	2101	FMN	O4-C4	8.89	1.40	1.23
4	J	2101	FMN	C9A-C5A	8.85	1.56	1.41
4	H	2101	FMN	O2-C2	8.81	1.40	1.24
4	L	2101	FMN	C9A-C5A	8.30	1.55	1.41
4	H	2101	FMN	C9A-C5A	8.08	1.54	1.41
4	G	2101	FMN	C9A-C5A	7.99	1.54	1.41
4	K	2101	FMN	C9A-C5A	7.99	1.54	1.41
4	K	2101	FMN	C2-N1	7.81	1.55	1.36
4	K	2101	FMN	C10-N1	7.76	1.49	1.33
4	I	2101	FMN	C9A-C5A	7.69	1.54	1.41
4	J	2101	FMN	C8-C7	7.64	1.59	1.40
4	J	2101	FMN	C10-N1	7.52	1.48	1.33
4	L	2101	FMN	C10-N1	7.30	1.48	1.33
4	J	2101	FMN	C2-N1	7.27	1.54	1.36
4	I	2101	FMN	C2-N1	7.25	1.54	1.36
4	G	2101	FMN	C2-N1	7.23	1.53	1.36
4	G	2101	FMN	C10-N1	7.22	1.48	1.33
4	I	2101	FMN	C10-N1	7.13	1.47	1.33
4	K	2101	FMN	C10-N10	7.01	1.52	1.37
4	L	2101	FMN	C2-N1	7.00	1.53	1.36
4	H	2101	FMN	C10-N1	6.96	1.47	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	2101	FMN	C2-N1	6.93	1.53	1.36
4	H	2101	FMN	C8-C7	6.91	1.58	1.40
4	K	2101	FMN	C8-C7	6.91	1.58	1.40
4	L	2101	FMN	C10-N10	6.88	1.52	1.37
4	L	2101	FMN	C8-C7	6.85	1.58	1.40
4	J	2101	FMN	C10-N10	6.63	1.51	1.37
4	I	2101	FMN	C8-C7	6.59	1.57	1.40
4	I	2101	FMN	C10-N10	6.55	1.51	1.37
4	G	2101	FMN	C8-C7	6.52	1.57	1.40
4	G	2101	FMN	C10-N10	6.43	1.51	1.37
4	J	2101	FMN	C4-N3	6.26	1.50	1.38
4	H	2101	FMN	C10-N10	6.24	1.51	1.37
4	L	2101	FMN	C5A-N5	6.05	1.51	1.39
4	K	2101	FMN	C4-N3	6.04	1.50	1.38
4	J	2101	FMN	C2-N3	5.75	1.52	1.39
4	G	2101	FMN	C5A-N5	5.75	1.50	1.39
3	D	1901	NAP	C2N-N1N	5.74	1.41	1.35
4	I	2101	FMN	C5A-N5	5.65	1.50	1.39
4	J	2101	FMN	C5A-N5	5.65	1.50	1.39
4	I	2101	FMN	C4-N3	5.64	1.49	1.38
4	L	2101	FMN	C2-N3	5.64	1.52	1.39
4	H	2101	FMN	C4-N3	5.62	1.49	1.38
4	G	2101	FMN	C4-N3	5.58	1.49	1.38
4	H	2101	FMN	C5A-N5	5.57	1.50	1.39
4	L	2101	FMN	C4-N3	5.57	1.49	1.38
4	K	2101	FMN	C5A-N5	5.57	1.50	1.39
4	K	2101	FMN	C2-N3	5.55	1.51	1.39
4	I	2101	FMN	C2-N3	5.47	1.51	1.39
4	H	2101	FMN	C2-N3	5.45	1.51	1.39
4	G	2101	FMN	C2-N3	5.36	1.51	1.39
4	I	2101	FMN	C9A-N10	4.95	1.49	1.41
4	K	2101	FMN	C9A-N10	4.92	1.49	1.41
3	C	1901	NAP	C2N-N1N	4.79	1.40	1.35
4	H	2101	FMN	C9A-N10	4.76	1.49	1.41
4	L	2101	FMN	C9A-N10	4.74	1.49	1.41
3	F	1901	NAP	C2N-N1N	4.73	1.40	1.35
3	A	1901	NAP	C2N-N1N	4.62	1.40	1.35
4	G	2101	FMN	C9A-N10	4.57	1.49	1.41
3	J	2102	NAP	C2N-N1N	4.46	1.40	1.35
3	B	1901	NAP	C2N-N1N	4.45	1.40	1.35
3	G	2102	NAP	C2N-N1N	4.36	1.40	1.35
3	K	2102	NAP	C2N-N1N	4.36	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	1901	NAP	C2A-N3A	4.35	1.39	1.32
3	D	1901	NAP	C2A-N3A	4.34	1.39	1.32
3	C	1901	NAP	C2A-N3A	4.33	1.39	1.32
3	E	1901	NAP	C2N-N1N	4.30	1.40	1.35
3	H	2102	NAP	C2N-N1N	4.28	1.40	1.35
4	J	2101	FMN	C9A-N10	4.22	1.48	1.41
3	L	2102	NAP	C2A-N3A	4.21	1.38	1.32
3	A	1901	NAP	C2A-N3A	4.18	1.38	1.32
3	L	2102	NAP	C2N-N1N	4.03	1.39	1.35
3	G	2102	NAP	C2A-N3A	4.01	1.38	1.32
3	J	2102	NAP	C2A-N3A	3.93	1.38	1.32
3	H	2102	NAP	C2A-N3A	3.90	1.38	1.32
3	K	2102	NAP	C2A-N3A	3.86	1.38	1.32
3	B	1901	NAP	C2A-N3A	3.83	1.38	1.32
3	I	2102	NAP	C2A-N3A	3.80	1.38	1.32
3	I	2102	NAP	C2N-N1N	3.79	1.39	1.35
3	F	1901	NAP	C2A-N3A	3.68	1.38	1.32
4	J	2101	FMN	C4A-C10	3.58	1.54	1.44
4	J	2101	FMN	C5'-C4'	3.39	1.56	1.51
4	K	2101	FMN	C4A-C10	3.26	1.53	1.44
4	I	2101	FMN	C4A-C10	3.23	1.53	1.44
4	L	2101	FMN	C4A-C10	3.22	1.53	1.44
4	H	2101	FMN	C4A-C10	3.16	1.53	1.44
4	G	2101	FMN	C4A-C10	3.16	1.53	1.44
4	J	2101	FMN	P-O3P	3.10	1.66	1.54
4	K	2101	FMN	P-O3P	3.10	1.66	1.54
4	G	2101	FMN	P-O2P	3.08	1.66	1.54
4	H	2101	FMN	C5'-C4'	3.08	1.56	1.51
4	K	2101	FMN	P-O2P	2.99	1.66	1.54
3	J	2102	NAP	C6N-N1N	2.94	1.42	1.35
4	L	2101	FMN	C1'-C2'	2.92	1.56	1.52
4	H	2101	FMN	P-O2P	2.91	1.66	1.54
3	F	1901	NAP	C2A-N1A	2.87	1.39	1.33
4	L	2101	FMN	P-O2P	2.82	1.65	1.54
4	H	2101	FMN	P-O3P	2.78	1.65	1.54
4	K	2101	FMN	C1'-C2'	2.78	1.56	1.52
4	J	2101	FMN	P-O2P	2.78	1.65	1.54
4	K	2101	FMN	C5'-C4'	2.77	1.55	1.51
3	D	1901	NAP	C2A-N1A	2.76	1.39	1.33
4	L	2101	FMN	P-O3P	2.75	1.65	1.54
4	I	2101	FMN	P-O2P	2.74	1.65	1.54
4	G	2101	FMN	P-O3P	2.66	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	I	2101	FMN	P-O3P	2.66	1.65	1.54
4	L	2101	FMN	C5'-C4'	2.65	1.55	1.51
3	H	2102	NAP	C6N-N1N	2.58	1.41	1.35
3	B	1901	NAP	C2A-N1A	2.54	1.38	1.33
3	K	2102	NAP	C6N-N1N	2.54	1.41	1.35
3	C	1901	NAP	C2A-N1A	2.53	1.38	1.33
3	E	1901	NAP	C2A-N1A	2.53	1.38	1.33
3	L	2102	NAP	C2A-N1A	2.51	1.38	1.33
4	G	2101	FMN	C5'-C4'	2.49	1.55	1.51
4	G	2101	FMN	C1'-C2'	2.48	1.56	1.52
4	K	2101	FMN	C4A-C4	2.47	1.53	1.44
4	J	2101	FMN	C8M-C8	2.46	1.55	1.51
3	A	1901	NAP	C2A-N1A	2.45	1.38	1.33
3	G	2102	NAP	C2A-N1A	2.45	1.38	1.33
3	H	2102	NAP	C2A-N1A	2.43	1.38	1.33
4	K	2101	FMN	P-O5'	2.38	1.67	1.60
3	G	2102	NAP	C6N-N1N	2.37	1.41	1.35
3	J	2102	NAP	C2A-N1A	2.35	1.38	1.33
3	K	2102	NAP	C2A-N1A	2.33	1.38	1.33
3	L	2102	NAP	C6N-N1N	2.29	1.41	1.35
4	H	2101	FMN	C1'-C2'	2.27	1.55	1.52
3	I	2102	NAP	C2A-N1A	2.25	1.38	1.33
4	J	2101	FMN	C1'-C2'	2.14	1.55	1.52
4	I	2101	FMN	C4A-C4	2.08	1.52	1.44
3	C	1901	NAP	C6N-N1N	2.04	1.40	1.35
4	J	2101	FMN	C4A-C4	2.04	1.52	1.44
4	I	2101	FMN	C5'-C4'	2.04	1.54	1.51
3	D	1901	NAP	C6N-N1N	2.00	1.40	1.35

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	2102	NAP	N3A-C2A-N1A	-5.93	119.41	128.68
3	D	1901	NAP	N3A-C2A-N1A	-5.90	119.45	128.68
3	G	2102	NAP	N3A-C2A-N1A	-5.69	119.78	128.68
3	J	2102	NAP	N3A-C2A-N1A	-5.68	119.80	128.68
3	L	2102	NAP	N3A-C2A-N1A	-5.63	119.88	128.68
3	H	2102	NAP	N3A-C2A-N1A	-5.59	119.93	128.68
3	E	1901	NAP	N3A-C2A-N1A	-5.59	119.94	128.68
3	F	1901	NAP	N3A-C2A-N1A	-5.47	120.13	128.68
3	K	2102	NAP	N3A-C2A-N1A	-5.38	120.28	128.68
3	C	1901	NAP	N3A-C2A-N1A	-5.37	120.29	128.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1901	NAP	N3A-C2A-N1A	-5.19	120.56	128.68
3	C	1901	NAP	O4D-C1D-C2D	-4.95	99.69	106.93
3	B	1901	NAP	N3A-C2A-N1A	-4.88	121.05	128.68
3	D	1901	NAP	O4D-C1D-C2D	-4.76	99.98	106.93
3	A	1901	NAP	O4D-C1D-C2D	-4.56	100.27	106.93
3	E	1901	NAP	O4D-C1D-C2D	-4.48	100.37	106.93
3	B	1901	NAP	O4D-C1D-C2D	-4.35	100.56	106.93
3	F	1901	NAP	O4D-C1D-C2D	-4.03	101.03	106.93
4	K	2101	FMN	C4-N3-C2	-3.13	119.85	125.64
4	J	2101	FMN	C9-C9A-N10	-3.04	117.73	121.84
4	K	2101	FMN	C4A-C4-N3	3.01	120.82	113.19
4	J	2101	FMN	C5A-C9A-N10	2.97	121.02	117.95
4	J	2101	FMN	O4-C4-C4A	-2.95	118.78	126.60
4	I	2101	FMN	C9A-C5A-N5	-2.84	119.35	122.43
4	G	2101	FMN	C9A-C5A-N5	-2.82	119.37	122.43
4	H	2101	FMN	C9A-C5A-N5	-2.81	119.38	122.43
4	K	2101	FMN	C9A-C5A-N5	-2.79	119.40	122.43
4	I	2101	FMN	C4-N3-C2	-2.78	120.51	125.64
4	H	2101	FMN	O4-C4-C4A	-2.72	119.37	126.60
4	L	2101	FMN	O4-C4-C4A	-2.71	119.42	126.60
4	L	2101	FMN	C9A-C5A-N5	-2.68	119.51	122.43
4	I	2101	FMN	C5A-C9A-N10	2.66	120.71	117.95
4	H	2101	FMN	C5A-C9A-N10	2.65	120.69	117.95
4	H	2101	FMN	C4-N3-C2	-2.61	120.82	125.64
4	L	2101	FMN	C4-N3-C2	-2.61	120.82	125.64
4	I	2101	FMN	C4A-C4-N3	2.51	119.57	113.19
4	K	2101	FMN	O4-C4-C4A	-2.51	119.94	126.60
4	K	2101	FMN	C4A-C10-N1	-2.48	118.97	124.73
4	K	2101	FMN	C5A-C9A-N10	2.43	120.47	117.95
4	I	2101	FMN	O4-C4-C4A	-2.41	120.19	126.60
4	G	2101	FMN	C5A-C9A-N10	2.40	120.44	117.95
4	H	2101	FMN	C4A-C4-N3	2.39	119.26	113.19
4	L	2101	FMN	C4A-C4-N3	2.38	119.23	113.19
4	G	2101	FMN	C4A-C4-N3	2.37	119.20	113.19
4	G	2101	FMN	C4-N3-C2	-2.34	121.31	125.64
4	J	2101	FMN	C4-N3-C2	-2.34	121.32	125.64
4	G	2101	FMN	O4-C4-C4A	-2.33	120.42	126.60
4	L	2101	FMN	C4-C4A-C10	2.30	120.65	116.79
4	L	2101	FMN	C9-C9A-N10	-2.28	118.76	121.84
4	K	2101	FMN	C9-C9A-N10	-2.26	118.78	121.84
3	E	1901	NAP	O2N-PN-O1N	2.24	123.33	112.24
4	K	2101	FMN	C10-C4A-N5	-2.22	120.14	124.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	2101	FMN	C4A-C4-N3	2.21	118.80	113.19
4	K	2101	FMN	C10-N1-C2	2.20	121.30	116.90
4	J	2101	FMN	C9A-C5A-N5	-2.19	120.05	122.43
3	E	1901	NAP	O7N-C7N-C3N	2.18	122.24	119.63
4	H	2101	FMN	C9-C9A-N10	-2.17	118.90	121.84
4	G	2101	FMN	O4'-C4'-C5'	-2.17	105.03	109.92
4	L	2101	FMN	C5A-C9A-N10	2.17	120.19	117.95
4	J	2101	FMN	C4-C4A-C10	2.15	120.40	116.79
3	G	2102	NAP	C6N-N1N-C2N	-2.15	120.02	121.97
4	L	2101	FMN	C4A-C10-N1	-2.14	119.76	124.73
3	A	1901	NAP	O7N-C7N-C3N	2.13	122.19	119.63
4	I	2101	FMN	O4'-C4'-C5'	-2.13	105.13	109.92
4	I	2101	FMN	C4A-C10-N1	-2.11	119.84	124.73
4	L	2101	FMN	C10-C4A-N5	-2.09	120.42	124.86
4	G	2101	FMN	C4-C4A-C10	2.08	120.29	116.79
4	I	2101	FMN	C4-C4A-C10	2.08	120.28	116.79
4	I	2101	FMN	C10-C4A-N5	-2.08	120.45	124.86
3	F	1901	NAP	O2N-PN-O1N	2.08	122.50	112.24
3	K	2102	NAP	C4A-C5A-N7A	-2.06	107.25	109.40
4	G	2101	FMN	C4A-C10-N1	-2.06	119.96	124.73
4	L	2101	FMN	C4A-C10-N10	2.04	119.46	116.48
4	G	2101	FMN	C10-C4A-N5	-2.04	120.53	124.86
4	G	2101	FMN	C9-C9A-N10	-2.02	119.11	121.84
3	B	1901	NAP	C3N-C7N-N7N	-2.02	115.33	117.75

There are no chirality outliers.

All (158) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1901	NAP	C5B-O5B-PA-O3
3	A	1901	NAP	PA-O3-PN-O5D
3	A	1901	NAP	C5D-O5D-PN-O1N
3	A	1901	NAP	C5D-O5D-PN-O2N
3	B	1901	NAP	C5B-O5B-PA-O3
3	B	1901	NAP	O4B-C4B-C5B-O5B
3	B	1901	NAP	PA-O3-PN-O5D
3	B	1901	NAP	C5D-O5D-PN-O1N
3	B	1901	NAP	C5D-O5D-PN-O2N
3	C	1901	NAP	C5B-O5B-PA-O3
3	C	1901	NAP	PA-O3-PN-O5D
3	C	1901	NAP	C5D-O5D-PN-O1N
3	C	1901	NAP	C5D-O5D-PN-O2N

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Mol	Chain	Res	Type	Atoms
3	D	1901	NAP	C5B-O5B-PA-O3
3	D	1901	NAP	PA-O3-PN-O5D
3	D	1901	NAP	C5D-O5D-PN-O1N
3	D	1901	NAP	C5D-O5D-PN-O2N
3	E	1901	NAP	C5B-O5B-PA-O3
3	E	1901	NAP	PA-O3-PN-O5D
3	E	1901	NAP	C5D-O5D-PN-O1N
3	E	1901	NAP	C5D-O5D-PN-O2N
3	F	1901	NAP	C5B-O5B-PA-O3
3	F	1901	NAP	PA-O3-PN-O5D
3	F	1901	NAP	C5D-O5D-PN-O1N
3	F	1901	NAP	C5D-O5D-PN-O2N
3	G	2102	NAP	C5B-O5B-PA-O3
3	G	2102	NAP	C3B-C4B-C5B-O5B
3	G	2102	NAP	C2B-O2B-P2B-O1X
3	H	2102	NAP	C5B-O5B-PA-O3
3	H	2102	NAP	C3B-C4B-C5B-O5B
3	H	2102	NAP	C2B-O2B-P2B-O1X
3	I	2102	NAP	C5B-O5B-PA-O3
3	I	2102	NAP	C3B-C4B-C5B-O5B
3	I	2102	NAP	C2B-O2B-P2B-O1X
3	J	2102	NAP	C5B-O5B-PA-O3
3	J	2102	NAP	C3B-C4B-C5B-O5B
3	J	2102	NAP	C2B-O2B-P2B-O1X
3	K	2102	NAP	C5B-O5B-PA-O3
3	K	2102	NAP	C3B-C4B-C5B-O5B
3	K	2102	NAP	C2B-O2B-P2B-O1X
3	L	2102	NAP	C5B-O5B-PA-O3
3	L	2102	NAP	O4B-C4B-C5B-O5B
3	L	2102	NAP	C3B-C4B-C5B-O5B
3	L	2102	NAP	C2B-O2B-P2B-O1X
4	G	2101	FMN	C2'-C3'-C4'-C5'
4	G	2101	FMN	O3'-C3'-C4'-C5'
4	H	2101	FMN	C2'-C3'-C4'-C5'
4	H	2101	FMN	O3'-C3'-C4'-C5'
4	I	2101	FMN	C2'-C3'-C4'-C5'
4	I	2101	FMN	O3'-C3'-C4'-C5'
4	J	2101	FMN	C2'-C3'-C4'-C5'
4	J	2101	FMN	O3'-C3'-C4'-C5'
4	K	2101	FMN	C2'-C3'-C4'-C5'
4	K	2101	FMN	O3'-C3'-C4'-C5'
4	L	2101	FMN	C2'-C3'-C4'-C5'

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Mol	Chain	Res	Type	Atoms
4	L	2101	FMN	O3'-C3'-C4'-C5'
4	G	2101	FMN	O3'-C3'-C4'-O4'
4	H	2101	FMN	O3'-C3'-C4'-O4'
4	I	2101	FMN	O3'-C3'-C4'-O4'
4	J	2101	FMN	O3'-C3'-C4'-O4'
4	K	2101	FMN	O3'-C3'-C4'-O4'
4	L	2101	FMN	O3'-C3'-C4'-O4'
3	A	1901	NAP	O4B-C4B-C5B-O5B
3	C	1901	NAP	O4B-C4B-C5B-O5B
3	D	1901	NAP	O4B-C4B-C5B-O5B
3	E	1901	NAP	O4B-C4B-C5B-O5B
3	F	1901	NAP	O4B-C4B-C5B-O5B
4	G	2101	FMN	C2'-C3'-C4'-O4'
4	H	2101	FMN	C2'-C3'-C4'-O4'
4	I	2101	FMN	C2'-C3'-C4'-O4'
4	J	2101	FMN	C2'-C3'-C4'-O4'
4	K	2101	FMN	C2'-C3'-C4'-O4'
4	L	2101	FMN	C2'-C3'-C4'-O4'
3	G	2102	NAP	C3B-C2B-O2B-P2B
3	H	2102	NAP	C3B-C2B-O2B-P2B
3	I	2102	NAP	C3B-C2B-O2B-P2B
3	J	2102	NAP	C3B-C2B-O2B-P2B
3	K	2102	NAP	C3B-C2B-O2B-P2B
3	L	2102	NAP	C3B-C2B-O2B-P2B
3	A	1901	NAP	C3B-C4B-C5B-O5B
3	B	1901	NAP	C3B-C4B-C5B-O5B
3	C	1901	NAP	C3B-C4B-C5B-O5B
3	D	1901	NAP	C3B-C4B-C5B-O5B
3	E	1901	NAP	C3B-C4B-C5B-O5B
3	F	1901	NAP	C3B-C4B-C5B-O5B
3	G	2102	NAP	O4B-C4B-C5B-O5B
3	H	2102	NAP	O4B-C4B-C5B-O5B
3	I	2102	NAP	O4B-C4B-C5B-O5B
3	J	2102	NAP	O4B-C4B-C5B-O5B
3	K	2102	NAP	O4B-C4B-C5B-O5B
4	K	2101	FMN	C4'-C5'-O5'-P
4	L	2101	FMN	C4'-C5'-O5'-P
4	H	2101	FMN	C4'-C5'-O5'-P
4	I	2101	FMN	C4'-C5'-O5'-P
3	G	2102	NAP	PA-O3-PN-O2N
3	H	2102	NAP	PA-O3-PN-O2N
3	I	2102	NAP	PA-O3-PN-O2N

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Mol	Chain	Res	Type	Atoms
3	J	2102	NAP	PA-O3-PN-O2N
3	K	2102	NAP	PA-O3-PN-O2N
3	L	2102	NAP	PA-O3-PN-O2N
4	J	2101	FMN	C4'-C5'-O5'-P
3	A	1901	NAP	C5B-O5B-PA-O1A
3	B	1901	NAP	C5B-O5B-PA-O1A
3	C	1901	NAP	C5B-O5B-PA-O1A
3	D	1901	NAP	C5B-O5B-PA-O1A
3	E	1901	NAP	C5B-O5B-PA-O1A
3	F	1901	NAP	C5B-O5B-PA-O1A
3	G	2102	NAP	C5B-O5B-PA-O1A
3	G	2102	NAP	C5B-O5B-PA-O2A
3	H	2102	NAP	C5B-O5B-PA-O1A
3	H	2102	NAP	C5B-O5B-PA-O2A
3	I	2102	NAP	C5B-O5B-PA-O1A
3	I	2102	NAP	C5B-O5B-PA-O2A
3	J	2102	NAP	C5B-O5B-PA-O1A
3	J	2102	NAP	C5B-O5B-PA-O2A
3	K	2102	NAP	C5B-O5B-PA-O1A
3	K	2102	NAP	C5B-O5B-PA-O2A
3	L	2102	NAP	C5B-O5B-PA-O1A
3	L	2102	NAP	C5B-O5B-PA-O2A
3	A	1901	NAP	C4D-C5D-O5D-PN
4	G	2101	FMN	C4'-C5'-O5'-P
3	A	1901	NAP	PN-O3-PA-O1A
3	B	1901	NAP	PN-O3-PA-O1A
3	B	1901	NAP	PN-O3-PA-O2A
3	C	1901	NAP	PN-O3-PA-O1A
3	D	1901	NAP	PN-O3-PA-O1A
3	E	1901	NAP	PN-O3-PA-O1A
3	F	1901	NAP	PN-O3-PA-O1A
3	C	1901	NAP	C4D-C5D-O5D-PN
3	D	1901	NAP	C4D-C5D-O5D-PN
3	E	1901	NAP	C4D-C5D-O5D-PN
3	G	2102	NAP	C1B-C2B-O2B-P2B
3	J	2102	NAP	C1B-C2B-O2B-P2B
3	B	1901	NAP	C4D-C5D-O5D-PN
3	F	1901	NAP	C4D-C5D-O5D-PN
3	K	2102	NAP	C1B-C2B-O2B-P2B
3	I	2102	NAP	C1B-C2B-O2B-P2B
3	L	2102	NAP	C1B-C2B-O2B-P2B
3	H	2102	NAP	C1B-C2B-O2B-P2B

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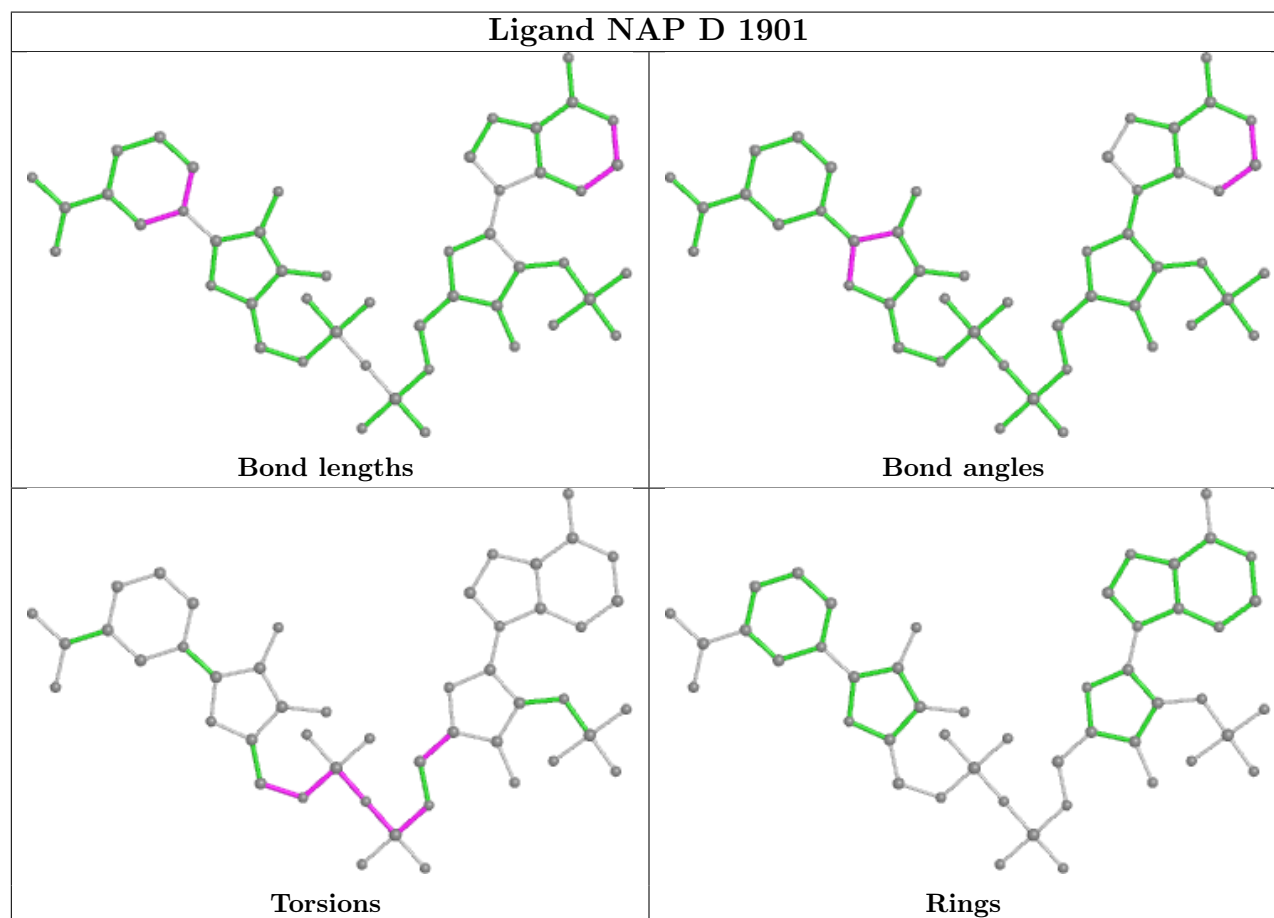
Mol	Chain	Res	Type	Atoms
3	A	1901	NAP	C5D-O5D-PN-O3
3	B	1901	NAP	C5D-O5D-PN-O3
3	C	1901	NAP	C5D-O5D-PN-O3
3	D	1901	NAP	C5D-O5D-PN-O3
3	E	1901	NAP	C5D-O5D-PN-O3
3	F	1901	NAP	C5D-O5D-PN-O3
3	G	2102	NAP	C2B-O2B-P2B-O2X
3	H	2102	NAP	C2B-O2B-P2B-O2X
3	I	2102	NAP	C2B-O2B-P2B-O2X
3	J	2102	NAP	C2B-O2B-P2B-O2X
3	K	2102	NAP	C2B-O2B-P2B-O2X
3	L	2102	NAP	C2B-O2B-P2B-O2X
3	A	1901	NAP	PN-O3-PA-O2A
3	C	1901	NAP	PN-O3-PA-O2A
3	D	1901	NAP	PN-O3-PA-O2A
3	E	1901	NAP	PN-O3-PA-O2A
3	F	1901	NAP	PN-O3-PA-O2A
3	K	2102	NAP	PA-O3-PN-O1N
3	G	2102	NAP	C3D-C4D-C5D-O5D

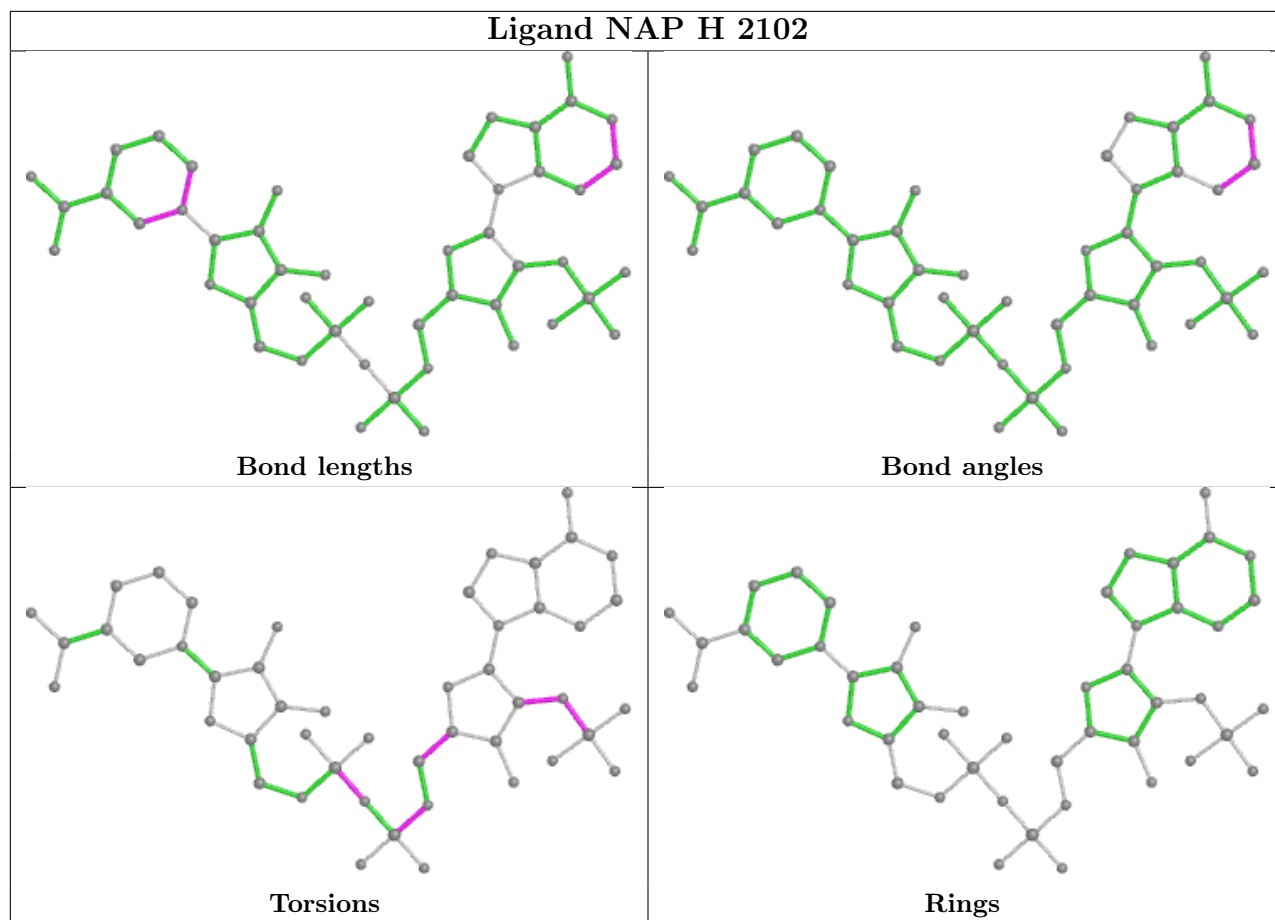
There are no ring outliers.

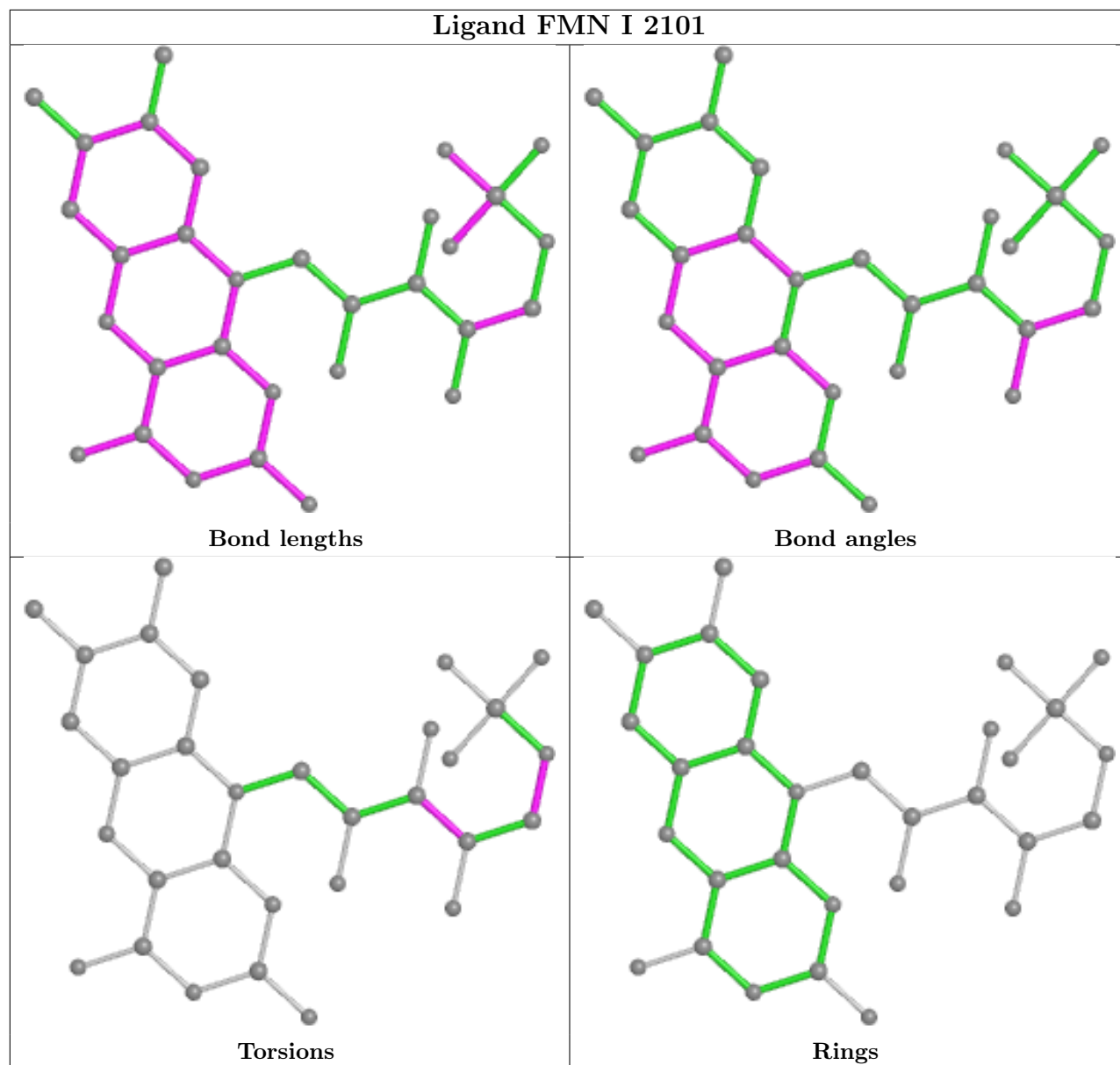
18 monomers are involved in 147 short contacts:

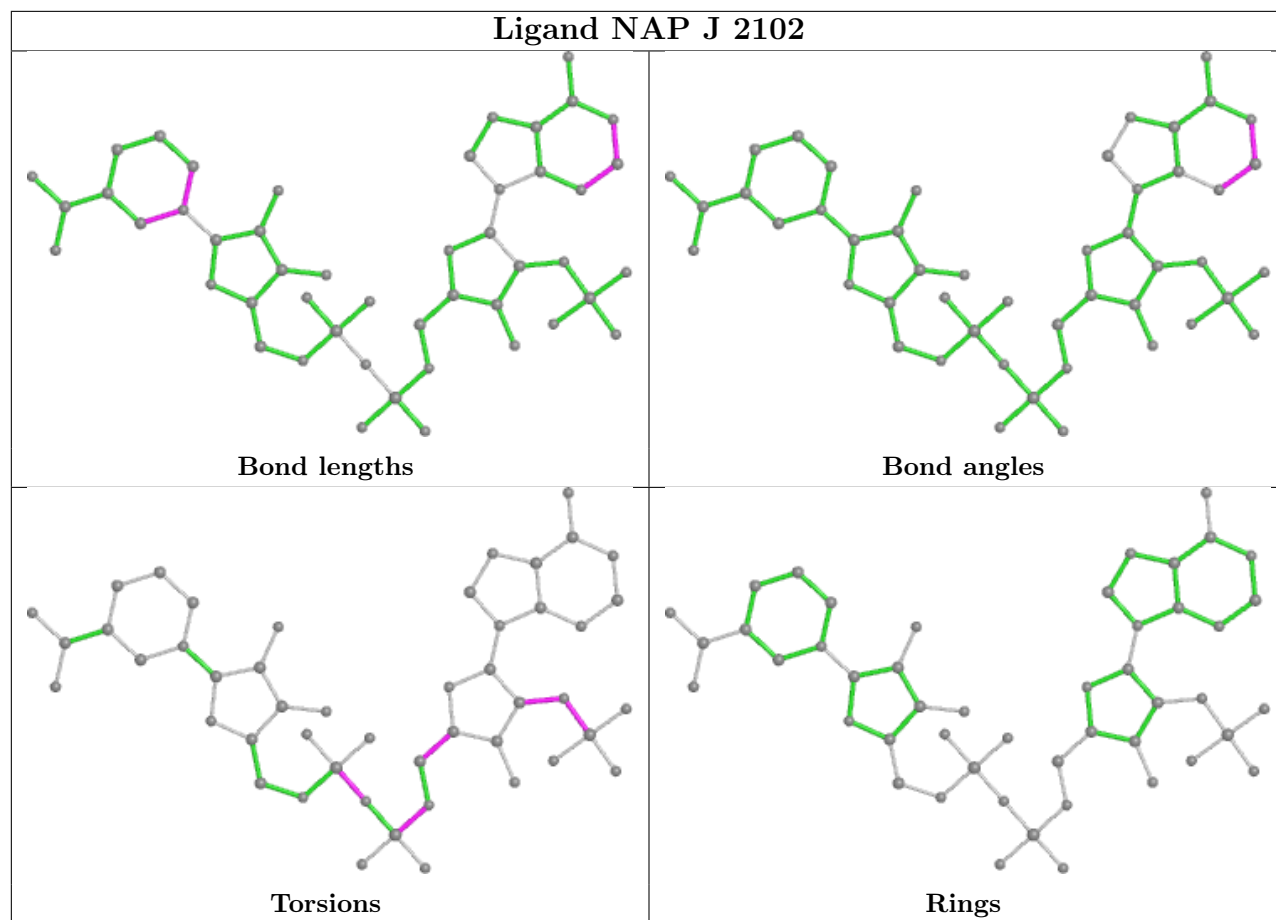
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	1901	NAP	6	0
3	H	2102	NAP	5	0
4	I	2101	FMN	16	0
3	J	2102	NAP	4	0
3	G	2102	NAP	4	0
3	A	1901	NAP	5	0
4	H	2101	FMN	16	0
3	E	1901	NAP	4	0
4	J	2101	FMN	15	0
3	I	2102	NAP	4	0
4	L	2101	FMN	15	0
3	L	2102	NAP	4	0
3	F	1901	NAP	4	0
3	B	1901	NAP	5	0
3	K	2102	NAP	4	0
3	C	1901	NAP	4	0
4	K	2101	FMN	15	0
4	G	2101	FMN	17	0

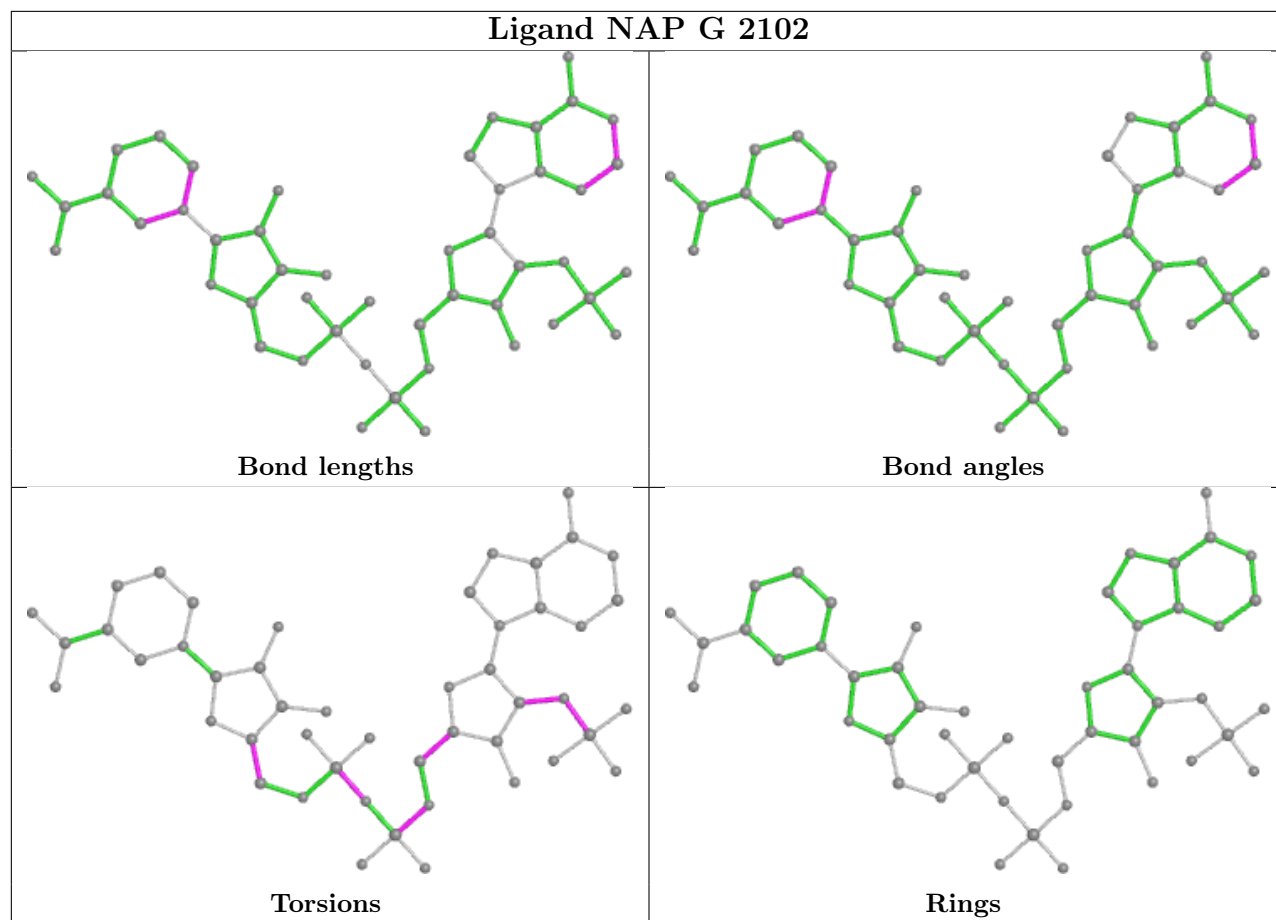
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

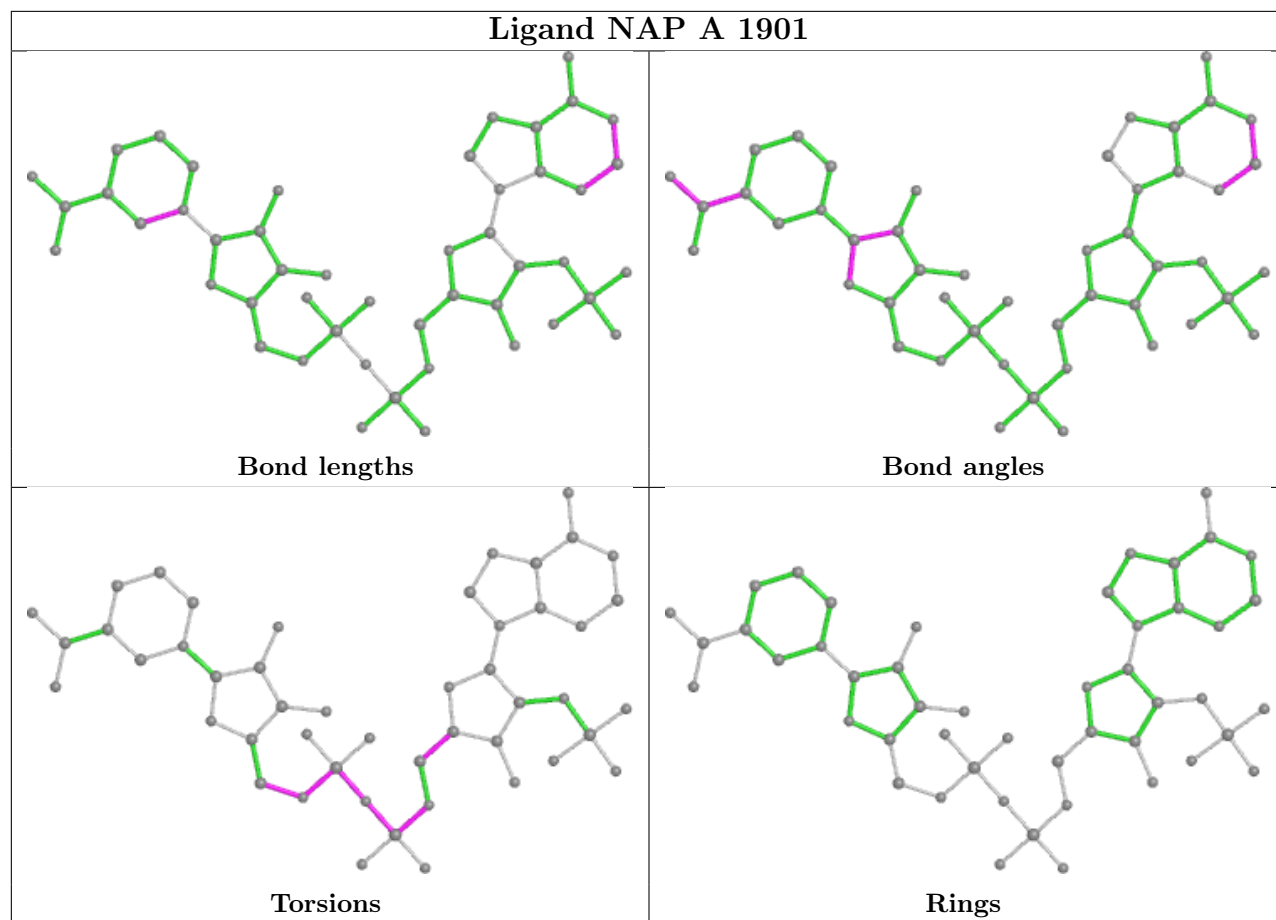


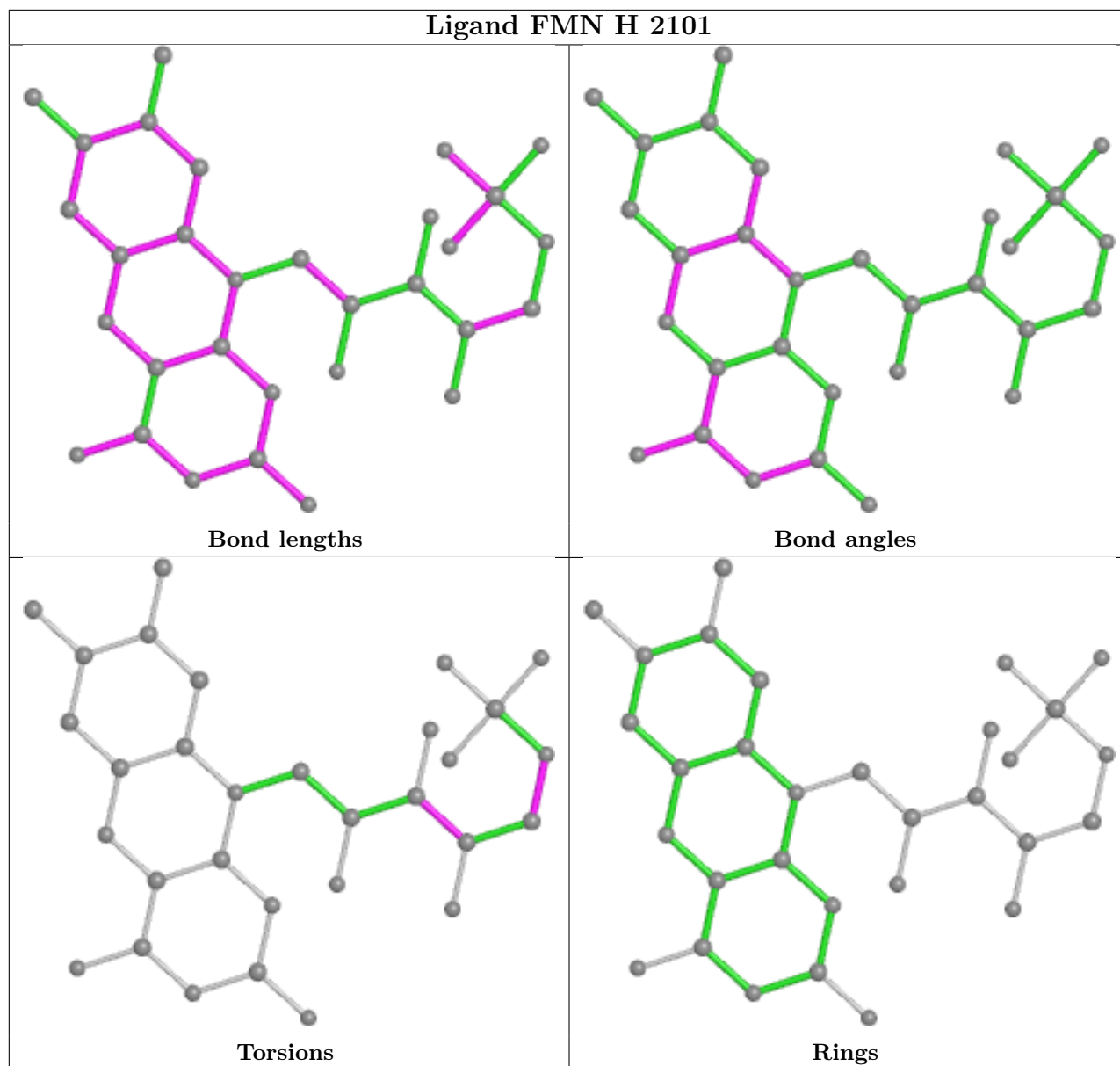


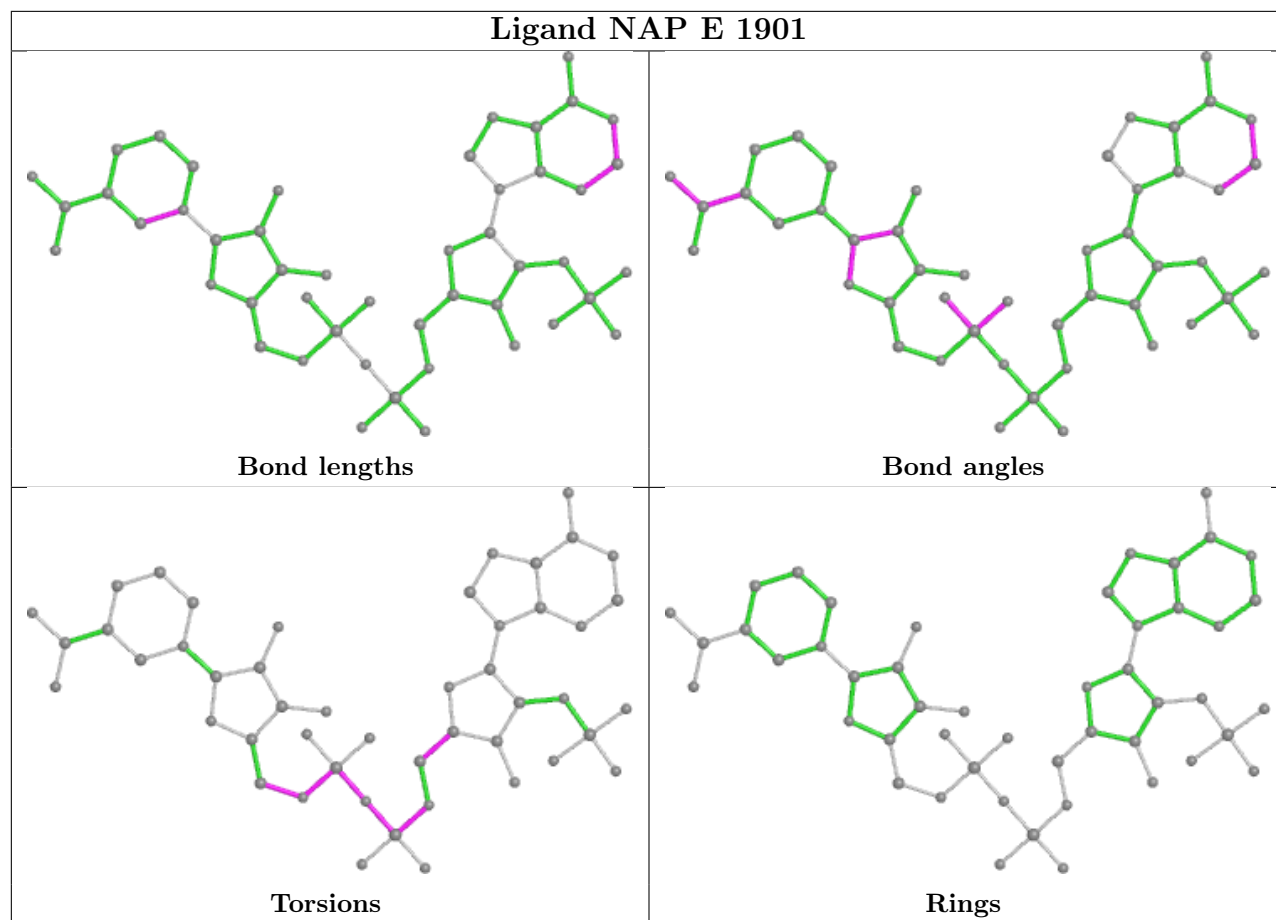


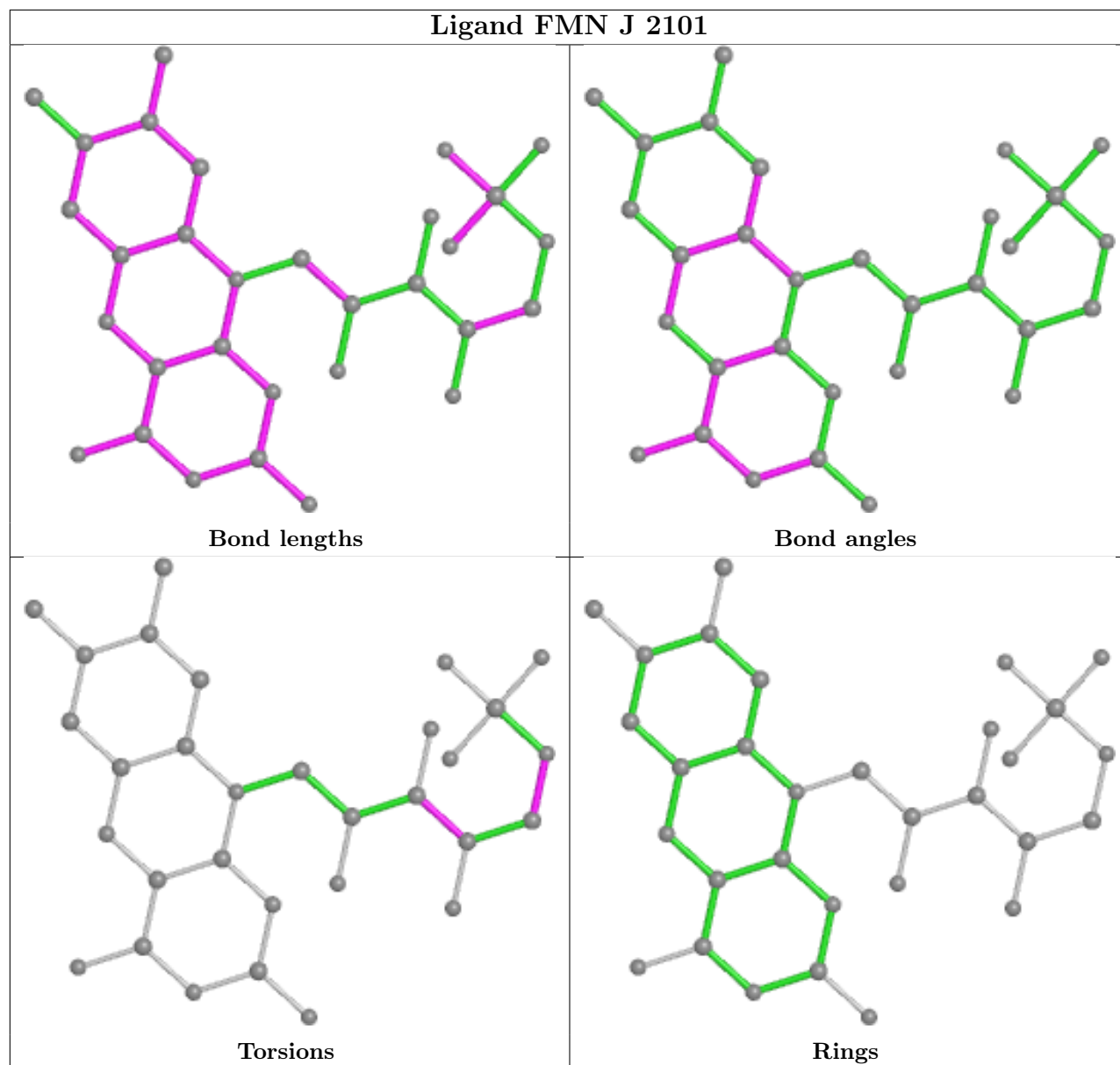


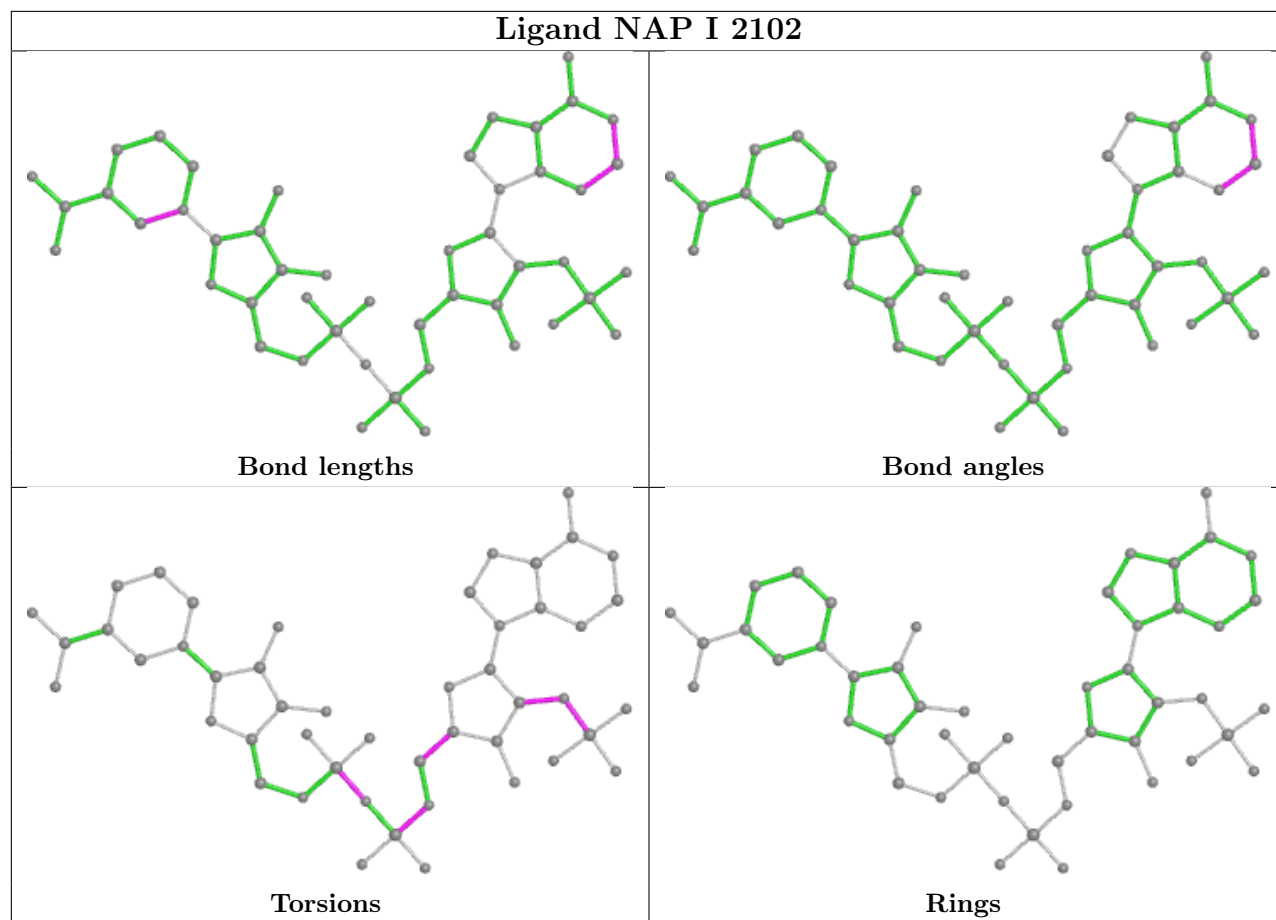


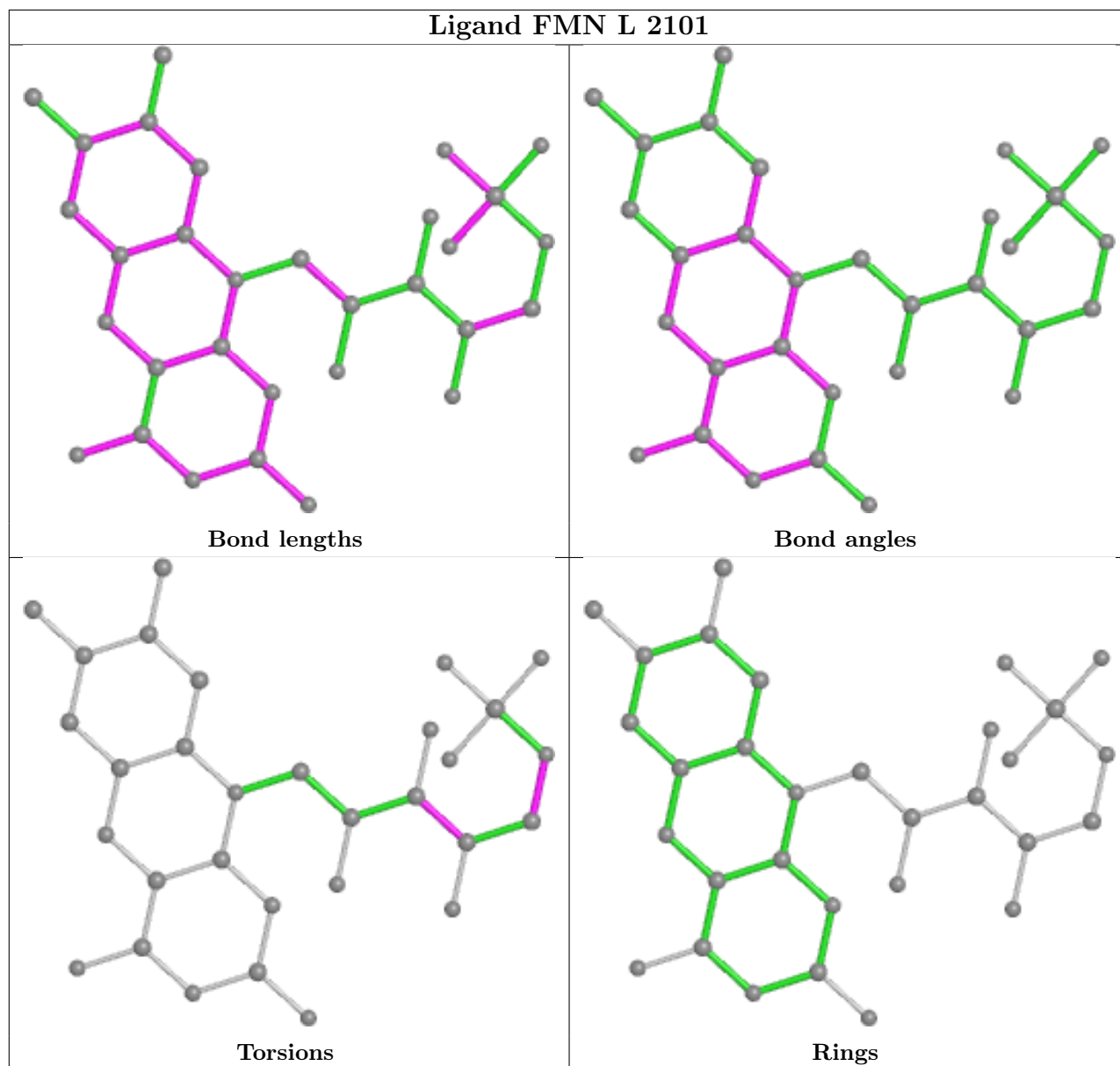


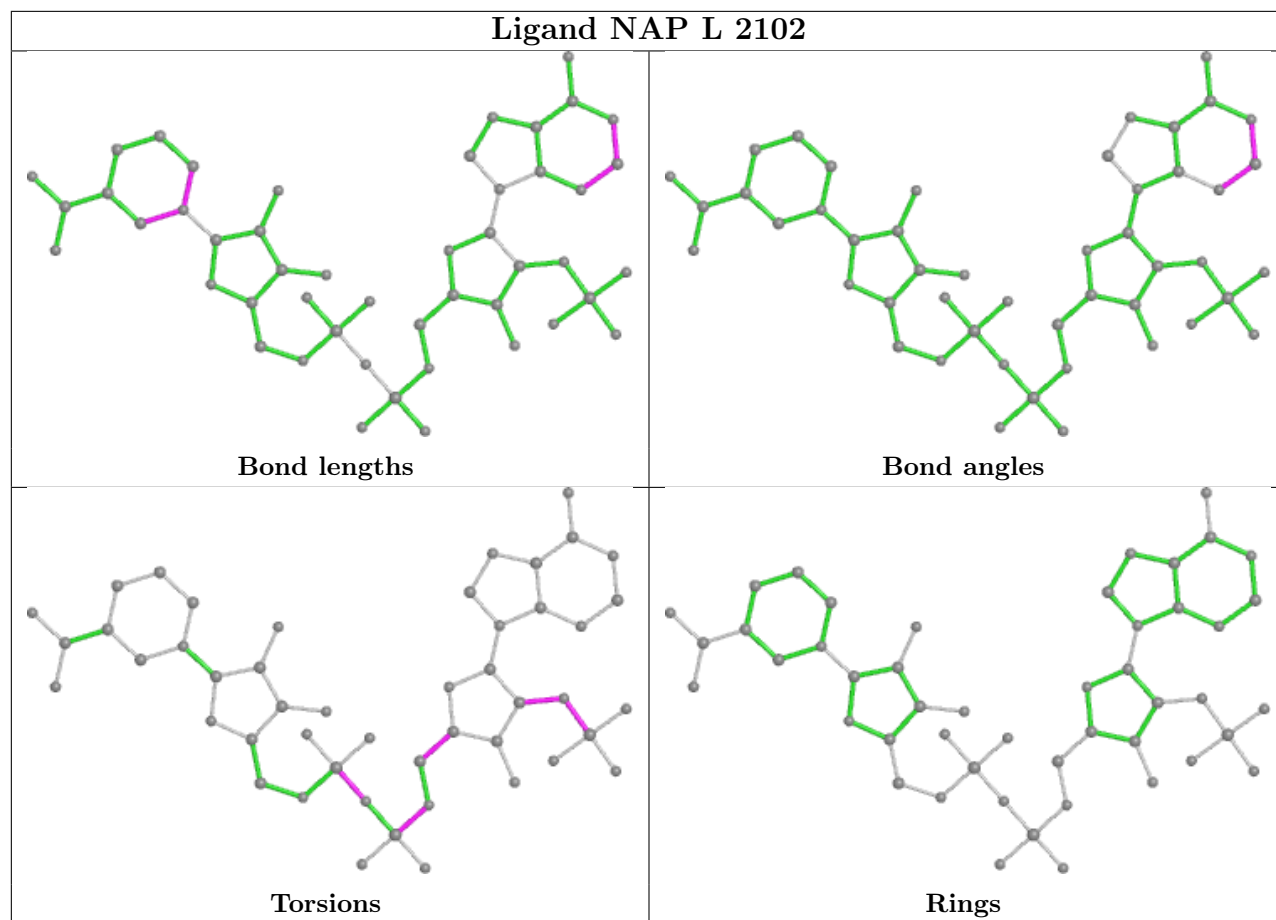


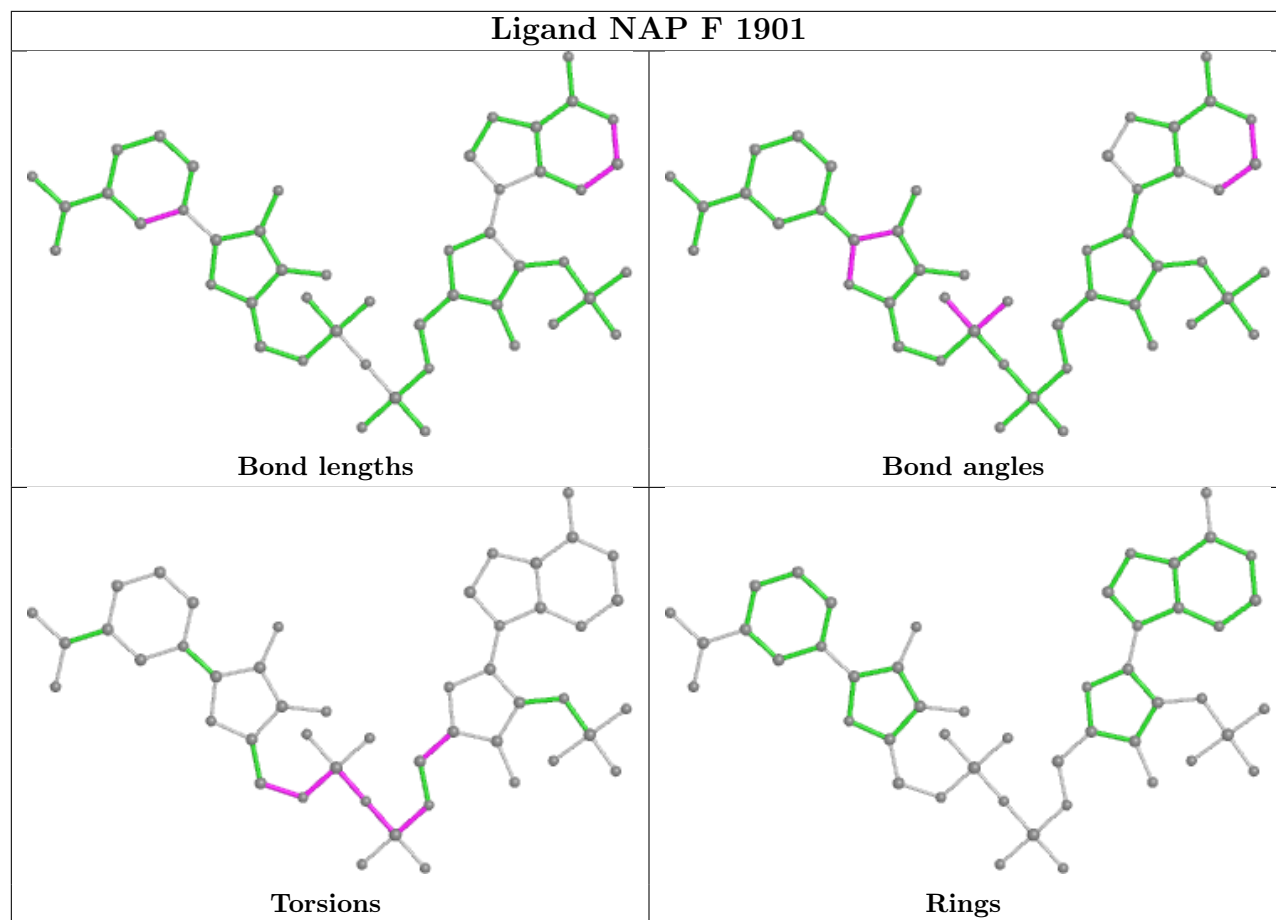


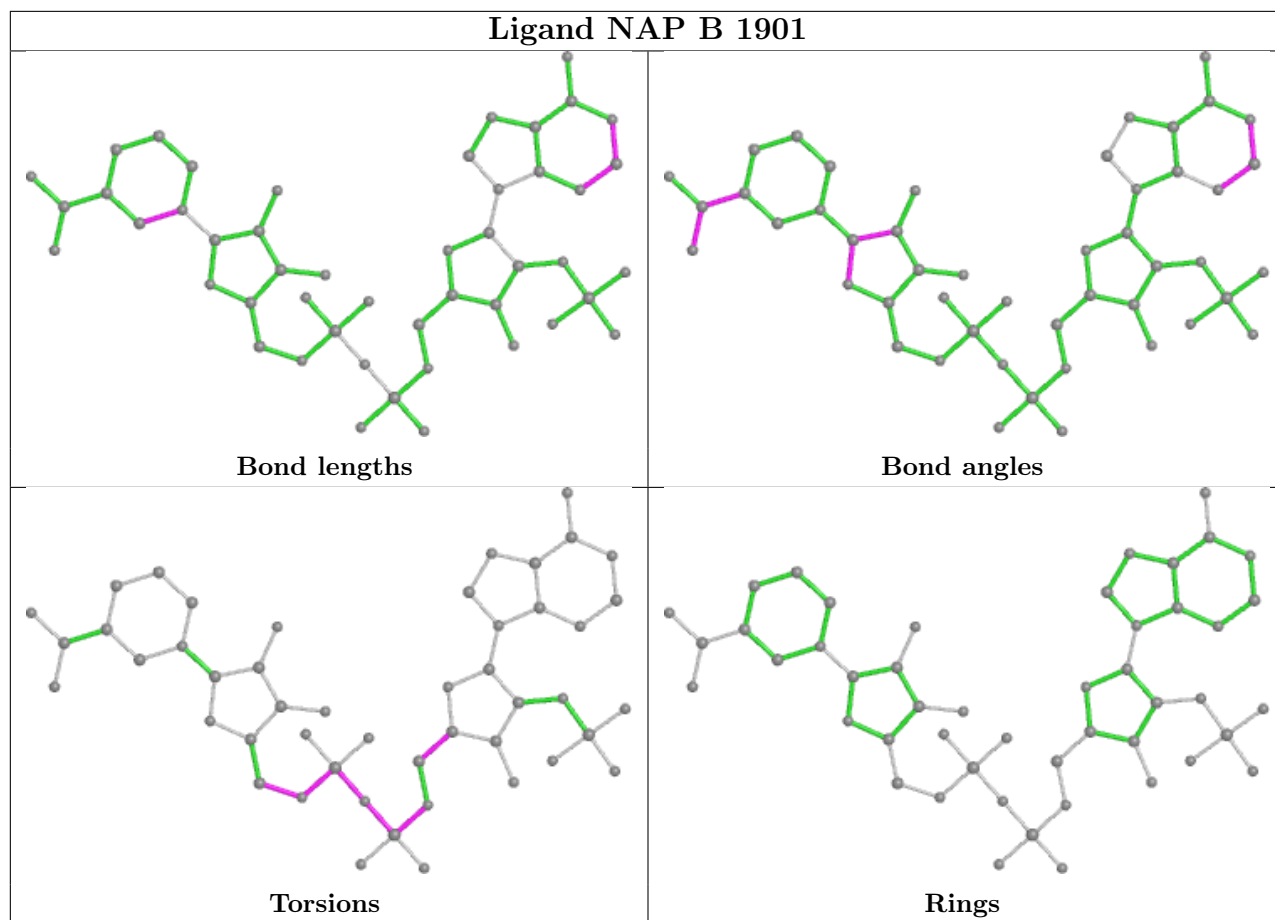


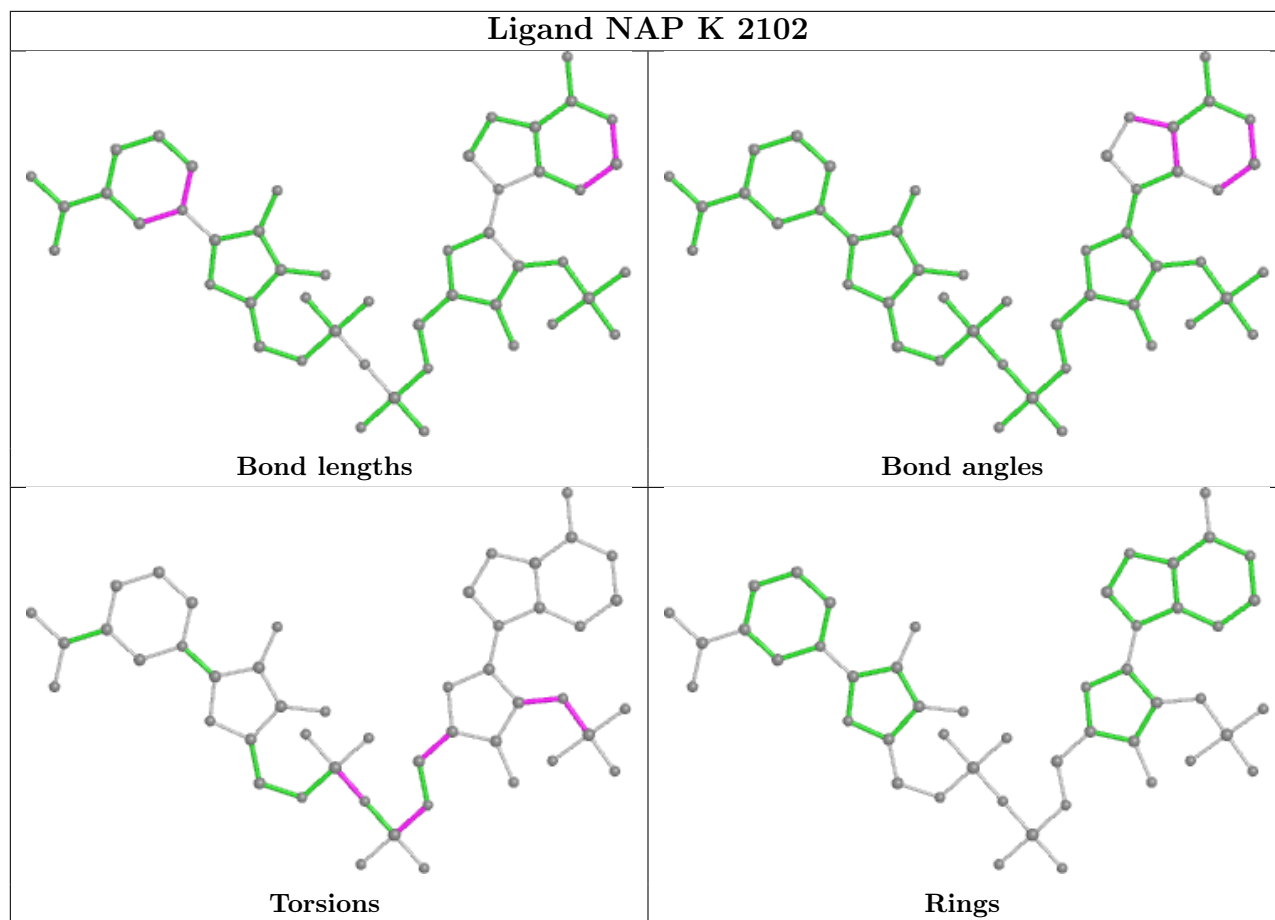


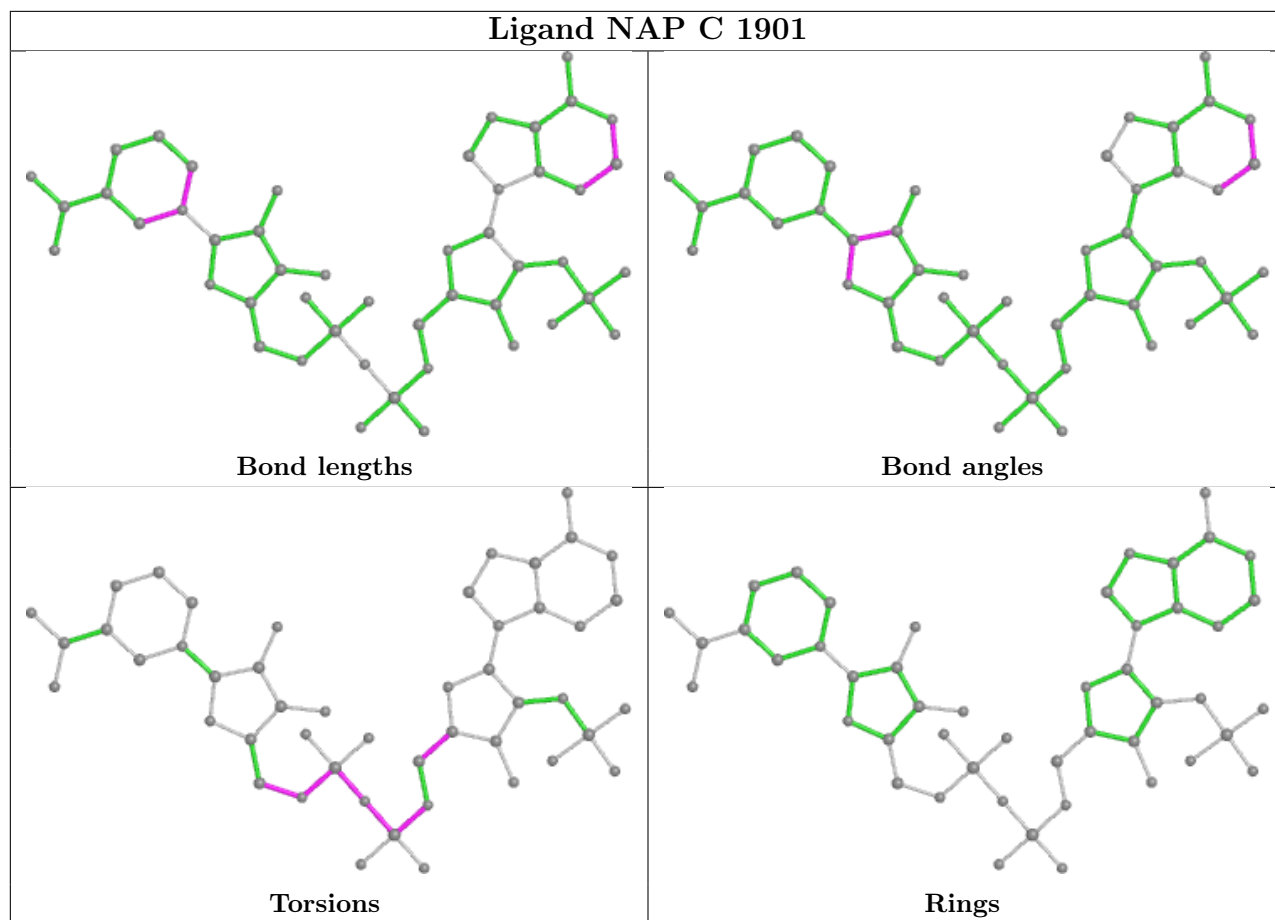


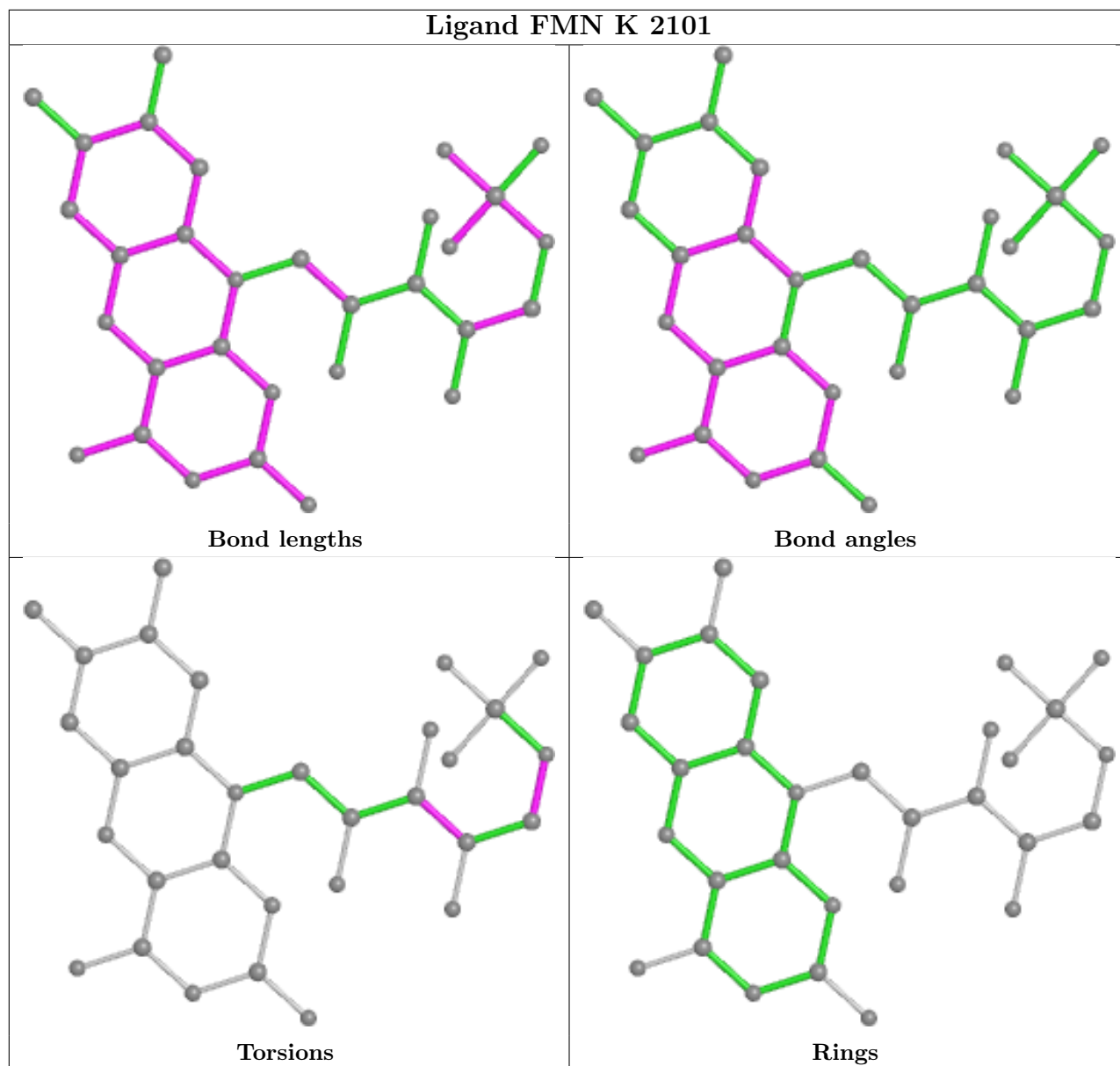


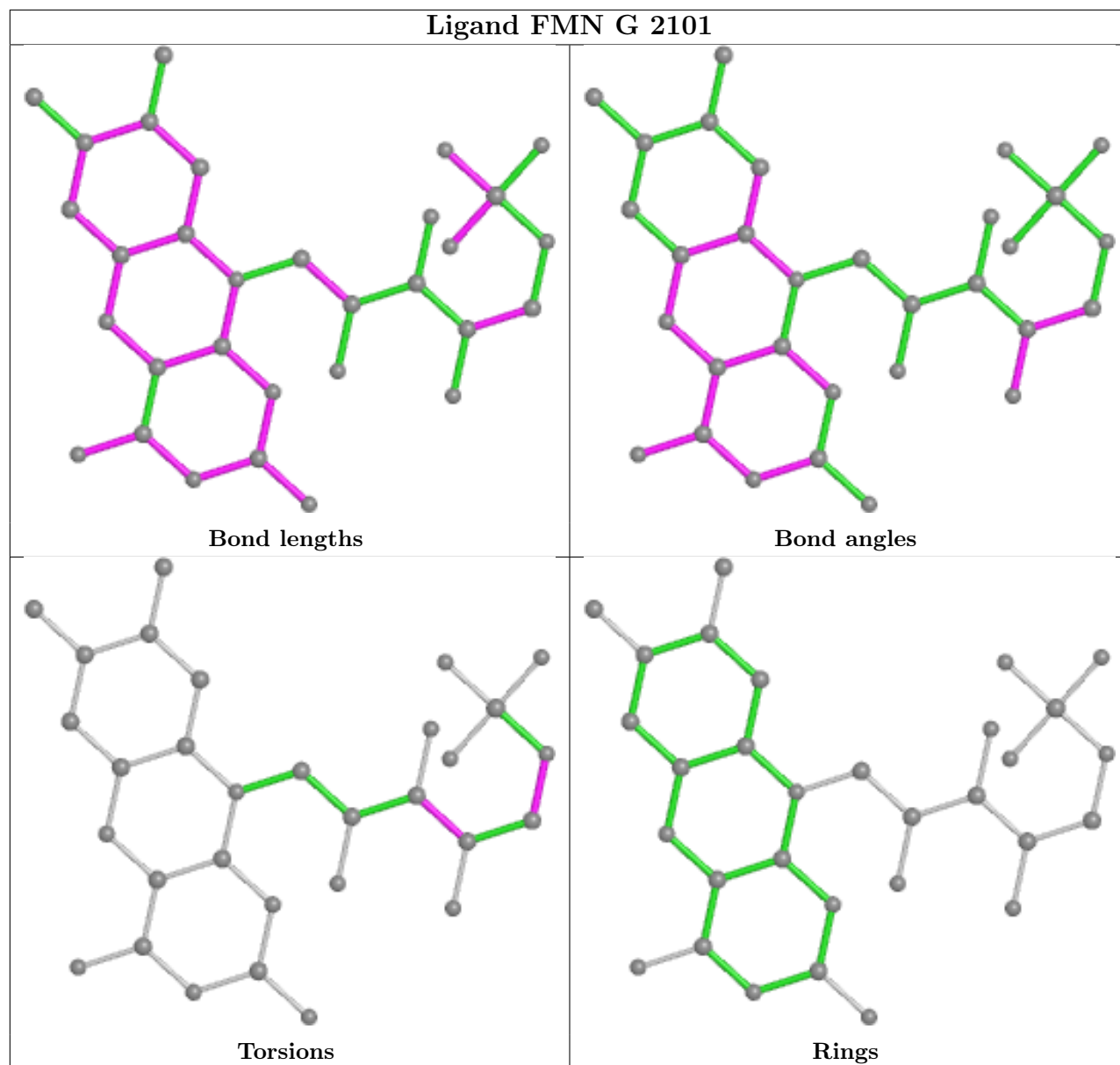












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2		OWAB(Å ²)	Q < 0.9	
1	A	1457/1878 (77%)	0.30	44 (3%)	50	27	16, 50, 103, 146	0
1	B	1464/1878 (77%)	0.31	38 (2%)	56	33	17, 50, 106, 157	0
1	C	1462/1878 (77%)	0.33	44 (3%)	50	27	15, 48, 107, 155	0
1	D	1467/1878 (78%)	0.29	47 (3%)	47	25	17, 52, 106, 151	0
1	E	1456/1878 (77%)	0.31	47 (3%)	47	25	17, 50, 106, 152	0
1	F	1461/1878 (77%)	0.34	37 (2%)	57	34	17, 47, 106, 156	0
2	G	2060/2060 (100%)	0.48	170 (8%)	11	4	24, 83, 128, 156	0
2	H	2060/2060 (100%)	0.57	222 (10%)	5	2	24, 85, 129, 155	0
2	I	2060/2060 (100%)	0.51	212 (10%)	6	2	20, 85, 129, 158	0
2	J	2060/2060 (100%)	0.61	275 (13%)	3	1	27, 88, 132, 157	0
2	K	2060/2060 (100%)	0.85	353 (17%)	1	0	25, 90, 133, 157	0
2	L	2060/2060 (100%)	0.58	259 (12%)	3	1	22, 86, 131, 158	0
All	All	21127/23628 (89%)	0.48	1748 (8%)	11	4	15, 74, 125, 158	0

All (1748) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	K	176	GLN	16.8
2	H	178	ASN	14.1
2	K	178	ASN	14.0
2	K	175	GLY	12.8
2	K	516	PHE	12.5
2	K	517	GLY	11.2
2	K	295	ILE	11.0
2	H	35	PHE	10.7
2	H	24	LEU	10.4
2	I	1123	ALA	9.5
2	K	26	LEU	9.3

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Mol	Chain	Res	Type	RSRZ
2	L	1915	LEU	9.3
2	H	1953	ILE	9.2
2	K	543	GLY	8.5
2	K	40	SER	8.3
2	K	105	ILE	8.2
2	L	1348	PHE	8.2
2	I	1900	LEU	8.2
2	K	279	PHE	8.1
2	K	294	ALA	8.0
2	H	40	SER	8.0
2	L	109	PHE	8.0
2	J	24	LEU	8.0
2	K	817	MET	7.8
2	K	109	PHE	7.8
2	K	177	GLY	7.8
2	K	285	HIS	7.7
2	K	1068	GLN	7.6
2	K	104	LEU	7.6
2	J	26	LEU	7.6
2	J	261	TYR	7.5
2	K	76	VAL	7.4
2	H	177	GLY	7.4
2	J	1357	ILE	7.4
2	H	76	VAL	7.3
2	G	44	GLN	7.3
2	J	1123	ALA	7.0
2	K	1900	LEU	7.0
2	L	41	LEU	6.9
2	L	2005	PHE	6.9
2	K	435	ILE	6.9
2	H	1124	THR	6.9
2	K	173	PHE	6.8
2	K	478	LEU	6.8
2	J	558	LEU	6.8
2	K	102	LEU	6.7
2	K	1067	LEU	6.7
2	K	807	PHE	6.7
2	H	295	ILE	6.7
2	K	113	PHE	6.7
2	K	487	ILE	6.6
2	H	23	PRO	6.5
2	K	260	HIS	6.5

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Mol	Chain	Res	Type	RSRZ
2	I	178	ASN	6.5
2	H	79	TYR	6.4
2	K	515	ASP	6.4
2	I	2077	TYR	6.4
2	J	175	GLY	6.4
2	J	516	PHE	6.3
2	K	171	SER	6.3
2	H	33	PHE	6.2
2	G	606	ALA	6.2
2	K	605	VAL	6.2
2	J	45	ALA	6.2
2	K	100	GLU	6.1
2	K	258	LEU	6.1
2	L	478	LEU	6.1
2	K	123	ALA	6.0
2	K	252	LEU	6.0
2	K	486	ILE	6.0
2	K	159	PHE	6.0
2	I	1128	PRO	6.0
2	I	1357	ILE	6.0
2	K	606	ALA	6.0
2	K	283	THR	6.0
2	K	558	LEU	6.0
2	H	37	VAL	5.9
2	L	1142	ILE	5.9
2	K	810	CYS	5.9
2	L	1900	LEU	5.9
2	I	176	GLN	5.8
2	K	35	PHE	5.8
2	L	1841	TYR	5.8
2	J	25	VAL	5.8
2	L	275	LEU	5.8
2	G	171	SER	5.8
2	L	1886	VAL	5.7
2	J	1196	PHE	5.7
2	K	544	ALA	5.7
2	J	1943	LEU	5.7
2	H	225	LEU	5.7
2	H	175	GLY	5.7
2	K	604	MET	5.7
2	J	252	LEU	5.7
2	K	80	ILE	5.6

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Mol	Chain	Res	Type	RSRZ
2	J	275	LEU	5.6
2	L	2070	ILE	5.6
1	F	44	ILE	5.5
2	K	255	LEU	5.5
2	K	296	ALA	5.5
2	K	518	PRO	5.5
2	K	284	GLY	5.5
2	K	308	ALA	5.5
2	K	275	LEU	5.4
2	K	662	LEU	5.4
2	K	491	VAL	5.4
2	K	174	GLY	5.3
2	J	295	ILE	5.3
1	A	577	LEU	5.3
2	H	293	ALA	5.3
2	J	35	PHE	5.3
2	J	716	PHE	5.2
2	K	293	ALA	5.2
2	K	261	TYR	5.2
2	H	26	LEU	5.2
2	G	516	PHE	5.2
2	K	146	ALA	5.2
2	J	742	GLN	5.2
2	J	178	ASN	5.1
1	F	1574	LEU	5.1
2	L	2004	PRO	5.1
2	K	514	VAL	5.1
2	G	1350	ILE	5.1
2	L	1930	ALA	5.1
2	K	692	ILE	5.1
2	K	101	VAL	5.1
2	I	1902	TYR	5.1
1	E	552	ILE	5.1
2	I	2005	PHE	5.1
2	J	75	LEU	5.0
2	H	261	TYR	5.0
2	K	660	VAL	5.0
2	L	113	PHE	5.0
2	J	1122	LYS	5.0
2	K	41	LEU	5.0
1	A	552	ILE	4.9
2	L	201	ILE	4.9

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Mol	Chain	Res	Type	RSRZ
2	K	163	ALA	4.9
2	H	113	PHE	4.9
1	E	44	ILE	4.9
2	J	1993	PHE	4.9
2	J	93	ASP	4.9
2	G	1305	LEU	4.9
2	K	1895	PHE	4.9
2	K	526	VAL	4.8
2	K	776	LEU	4.8
2	L	72	VAL	4.8
2	L	1128	PRO	4.8
2	L	516	PHE	4.8
1	C	853	MET	4.8
2	I	23	PRO	4.8
2	L	532	LYS	4.8
2	J	176	GLN	4.8
2	L	83	VAL	4.8
2	L	604	MET	4.7
2	J	27	THR	4.7
2	J	172	ILE	4.7
2	J	1124	THR	4.7
2	H	174	GLY	4.7
2	G	478	LEU	4.7
2	H	34	SER	4.7
2	G	853	GLY	4.7
2	K	716	PHE	4.7
2	K	740	ILE	4.6
2	K	290	VAL	4.6
2	K	44	GLN	4.6
2	K	747	ARG	4.6
2	I	79	TYR	4.6
2	G	1065	CYS	4.6
2	I	1841	TYR	4.6
2	H	551	GLU	4.6
2	J	1164	ILE	4.6
2	J	1261	PHE	4.6
2	J	627	HIS	4.6
2	H	75	LEU	4.6
2	J	308	ALA	4.6
2	K	53	LEU	4.6
2	K	1066	ILE	4.5
2	H	1915	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
2	K	292	ALA	4.5
2	K	1196	PHE	4.5
2	L	176	GLN	4.5
2	J	120	HIS	4.5
2	K	490	LEU	4.5
2	H	1100	ARG	4.5
2	J	467	ILE	4.5
2	G	1123	ALA	4.5
2	I	1244	LEU	4.5
2	J	23	PRO	4.5
2	L	45	ALA	4.4
2	K	1589	PRO	4.4
2	K	19	GLN	4.4
2	K	93	ASP	4.4
2	L	24	LEU	4.4
2	G	1124	THR	4.4
2	K	711	ILE	4.4
2	K	524	ILE	4.4
2	L	1122	LYS	4.4
2	H	1900	LEU	4.3
2	J	113	PHE	4.3
2	J	173	PHE	4.3
2	J	2078	GLU	4.3
2	J	1612	THR	4.3
2	H	80	ILE	4.3
2	K	25	VAL	4.3
2	L	1204	VAL	4.3
2	I	809	GLY	4.3
2	G	252	LEU	4.3
2	J	514	VAL	4.3
2	K	693	GLY	4.3
2	J	182	TYR	4.3
2	K	311	ALA	4.3
2	K	1042	PHE	4.3
2	I	1196	PHE	4.3
2	I	1124	THR	4.3
2	L	351	LEU	4.3
2	I	516	PHE	4.3
2	K	347	PRO	4.3
1	E	1443	LEU	4.3
2	J	1989	LEU	4.3
2	H	1999	ARG	4.3

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Mol	Chain	Res	Type	RSRZ
2	L	35	PHE	4.3
2	L	264	THR	4.2
2	L	1692	TYR	4.2
2	I	1122	LYS	4.2
2	I	177	GLY	4.2
2	G	627	HIS	4.2
2	I	24	LEU	4.2
2	K	690	LEU	4.2
2	J	659	THR	4.2
2	J	1128	PRO	4.2
2	K	782	PHE	4.2
2	H	811	MET	4.2
2	K	72	VAL	4.2
2	K	282	THR	4.2
2	K	91	ASP	4.2
2	K	384	ASN	4.2
2	J	1192	LEU	4.2
2	H	1870	ALA	4.2
1	D	852	LEU	4.2
2	J	490	LEU	4.2
2	H	328	ARG	4.1
2	K	598	LEU	4.1
2	K	1965	VAL	4.1
2	H	41	LEU	4.1
2	J	158	LEU	4.1
2	K	251	PRO	4.1
2	L	158	LEU	4.1
2	K	1401	ILE	4.1
2	J	136	VAL	4.1
2	L	2042	ASN	4.1
2	G	811	MET	4.1
2	K	27	THR	4.1
2	L	1068	GLN	4.1
2	L	2017	PHE	4.1
2	I	487	ILE	4.1
2	I	35	PHE	4.1
2	J	41	LEU	4.1
2	K	603	VAL	4.1
2	J	1217	ILE	4.1
2	K	36	LEU	4.1
2	J	1596	PHE	4.1
2	J	28	HIS	4.1

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Mol	Chain	Res	Type	RSRZ
2	L	268	LEU	4.1
2	K	448	HIS	4.0
1	F	77	GLN	4.0
2	I	1427	MET	4.0
2	K	1175	MET	4.0
2	G	807	PHE	4.0
2	I	255	LEU	4.0
2	G	294	ALA	4.0
2	K	48	LEU	4.0
2	K	169	ILE	4.0
2	K	597	LEU	4.0
2	J	1348	PHE	4.0
1	C	36	LEU	4.0
2	H	102	LEU	4.0
2	H	186	LEU	4.0
2	J	452	LEU	4.0
2	L	513	ILE	4.0
2	H	2005	PHE	4.0
2	I	104	LEU	4.0
1	C	35	ILE	4.0
2	K	24	LEU	4.0
2	G	119	VAL	4.0
2	H	227	ILE	4.0
2	K	627	HIS	4.0
2	J	48	LEU	3.9
2	J	782	PHE	3.9
2	J	1771	ALA	3.9
2	I	1415	VAL	3.9
1	A	44	ILE	3.9
2	H	173	PHE	3.9
2	H	176	GLN	3.9
2	K	28	HIS	3.9
2	K	1049	GLN	3.9
2	I	1217	ILE	3.9
2	J	1697	GLN	3.9
2	K	1448	ARG	3.9
2	K	1590	ILE	3.9
2	L	105	ILE	3.9
2	H	779	GLY	3.9
2	H	45	ALA	3.9
2	H	100	GLU	3.9
2	K	172	ILE	3.9

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Mol	Chain	Res	Type	RSRZ
2	L	172	ILE	3.9
2	K	1029	PRO	3.9
2	K	1426	VAL	3.9
2	L	76	VAL	3.9
2	J	1066	ILE	3.9
2	H	294	ALA	3.9
2	K	186	LEU	3.9
2	K	1227	LYS	3.9
2	L	1943	LEU	3.9
2	L	79	TYR	3.9
2	H	59	PRO	3.9
2	J	279	PHE	3.9
2	K	860	GLU	3.9
2	L	1361	ILE	3.9
2	H	552	VAL	3.8
2	H	1401	ILE	3.8
2	H	1954	GLN	3.8
1	B	14	LEU	3.8
2	L	605	VAL	3.8
2	H	1943	LEU	3.8
2	L	37	VAL	3.8
2	I	1243	ALA	3.8
2	K	33	PHE	3.8
2	I	1144	TYR	3.8
2	J	1886	VAL	3.8
2	J	79	TYR	3.8
2	K	120	HIS	3.8
2	L	518	PRO	3.8
2	G	1366	ILE	3.8
2	J	291	VAL	3.8
2	J	139	ALA	3.7
2	I	1953	ILE	3.7
2	L	167	VAL	3.7
2	J	604	MET	3.7
2	I	1730	TYR	3.7
2	I	27	THR	3.7
2	L	1124	THR	3.7
2	G	662	LEU	3.7
2	H	467	ILE	3.7
2	K	23	PRO	3.7
2	I	1850	VAL	3.7
2	J	312	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
2	J	807	PHE	3.7
2	K	262	MET	3.7
1	F	41	THR	3.7
2	J	603	VAL	3.7
2	H	986	LEU	3.7
2	K	1483	LEU	3.7
2	L	225	LEU	3.7
2	H	513	ILE	3.7
2	K	617	PHE	3.7
2	K	1596	PHE	3.7
2	K	493	MET	3.7
1	B	1574	LEU	3.7
2	H	598	LEU	3.7
1	E	78	ILE	3.7
2	J	283	THR	3.7
2	J	1917	ILE	3.7
2	K	37	VAL	3.7
2	J	805	MET	3.7
2	J	259	ALA	3.7
2	J	286	SER	3.7
2	K	304	PHE	3.7
2	L	1995	THR	3.7
2	L	810	CYS	3.7
1	E	566	PHE	3.7
2	I	113	PHE	3.7
2	I	1127	GLU	3.7
2	I	45	ALA	3.6
2	L	568	PHE	3.6
1	A	548	VAL	3.6
2	L	1917	ILE	3.6
1	E	45	VAL	3.6
2	H	284	GLY	3.6
2	K	525	GLY	3.6
1	D	14	LEU	3.6
2	H	617	PHE	3.6
2	I	1734	ILE	3.6
2	J	169	ILE	3.6
2	K	589	PHE	3.6
2	L	469	VAL	3.6
2	H	77	ALA	3.6
2	K	738	PRO	3.6
1	B	1453	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
2	I	26	LEU	3.6
2	G	1196	PHE	3.6
2	J	134	ILE	3.6
2	K	259	ALA	3.6
2	J	1599	TYR	3.6
1	F	36	LEU	3.6
2	J	1370	LEU	3.6
2	J	1042	PHE	3.6
2	J	1361	ILE	3.6
1	D	851	GLY	3.6
2	K	75	LEU	3.6
2	I	1358	THR	3.6
2	L	1616	VAL	3.6
2	H	36	LEU	3.6
2	L	598	LEU	3.6
2	H	158	LEU	3.6
2	K	56	LEU	3.6
1	B	78	ILE	3.6
2	H	101	VAL	3.6
2	J	264	THR	3.6
2	I	2017	PHE	3.5
1	B	552	ILE	3.5
2	G	435	ILE	3.5
1	C	569	LEU	3.5
2	H	1192	LEU	3.5
2	H	2035	LEU	3.5
2	J	709	LEU	3.5
2	J	1125	ASP	3.5
2	K	748	GLY	3.5
2	G	279	PHE	3.5
2	H	285	HIS	3.5
2	I	716	PHE	3.5
2	K	1793	TYR	3.5
2	I	1361	ILE	3.5
2	H	694	ALA	3.5
2	I	119	VAL	3.5
2	G	173	PHE	3.5
2	H	179	ILE	3.5
2	J	1620	VAL	3.5
2	K	743	TRP	3.5
2	I	810	CYS	3.5
2	K	1902	TYR	3.5

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Mol	Chain	Res	Type	RSRZ
2	I	1943	LEU	3.5
2	J	137	VAL	3.5
1	A	1443	LEU	3.5
2	K	1699	SER	3.5
1	C	1635	ILE	3.5
2	L	1067	LEU	3.5
2	L	1936	LEU	3.5
2	H	1068	GLN	3.5
2	I	1995	THR	3.5
2	L	175	GLY	3.5
2	J	876	TRP	3.5
2	G	1121	LEU	3.5
2	L	774	ILE	3.5
2	L	43	PHE	3.5
2	L	807	PHE	3.5
2	I	1599	TYR	3.5
2	J	171	SER	3.5
2	I	1371	LEU	3.5
2	J	1289	TYR	3.5
2	K	190	TYR	3.5
1	B	18	LEU	3.5
2	K	1943	LEU	3.5
2	J	1067	LEU	3.4
2	L	1143	SER	3.4
2	K	201	ILE	3.4
2	K	1016	PHE	3.4
1	E	541	VAL	3.4
1	C	78	ILE	3.4
2	H	782	PHE	3.4
2	K	458	MET	3.4
2	L	252	LEU	3.4
2	L	1928	VAL	3.4
1	E	28	TRP	3.4
2	G	778	ALA	3.4
2	I	1067	LEU	3.4
2	J	816	MET	3.4
2	K	1043	LYS	3.4
2	H	264	THR	3.4
2	H	627	HIS	3.4
2	J	1900	LEU	3.4
2	L	261	TYR	3.4
2	I	2040	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
2	J	1998	LEU	3.4
2	L	1939	LEU	3.4
2	G	716	PHE	3.4
2	H	260	HIS	3.4
2	G	255	LEU	3.4
2	H	106	LEU	3.4
2	J	690	LEU	3.4
2	H	120	HIS	3.4
2	I	1931	GLY	3.4
2	J	76	VAL	3.4
2	L	1123	ALA	3.4
2	G	742	GLN	3.4
2	K	1397	THR	3.4
2	G	469	VAL	3.4
2	J	542	ALA	3.4
2	J	1939	LEU	3.4
2	K	79	TYR	3.4
2	K	1326	HIS	3.4
2	L	1642	MET	3.4
2	L	1653	LEU	3.4
2	J	298	ALA	3.4
1	D	44	ILE	3.4
2	I	868	LEU	3.3
2	L	1349	ALA	3.3
1	A	1490	GLY	3.3
1	D	656	LEU	3.3
2	H	48	LEU	3.3
2	H	1612	THR	3.3
2	J	72	VAL	3.3
2	K	351	LEU	3.3
2	J	1953	ILE	3.3
2	L	1293	TRP	3.3
2	G	630	LEU	3.3
2	I	279	PHE	3.3
2	G	1067	LEU	3.3
2	K	1419	LEU	3.3
2	K	713	HIS	3.3
2	K	1691	ALA	3.3
2	G	41	LEU	3.3
2	G	72	VAL	3.3
2	J	430	ASN	3.3
2	I	105	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
2	L	2066	LYS	3.3
1	B	1627	PHE	3.3
2	I	1261	PHE	3.3
2	J	1126	GLU	3.3
2	G	1070	PRO	3.3
1	D	1443	LEU	3.3
2	J	677	LEU	3.3
2	L	1989	LEU	3.3
2	H	105	ILE	3.3
2	H	1836	HIS	3.3
2	H	1939	LEU	3.3
2	J	1305	LEU	3.3
2	J	307	ALA	3.3
2	K	148	GLY	3.3
2	K	1261	PHE	3.3
2	K	350	MET	3.3
2	K	147	ALA	3.3
2	L	1217	ILE	3.3
2	I	2013	GLY	3.3
2	I	102	LEU	3.3
2	I	1836	HIS	3.3
2	I	1906	ASN	3.3
2	I	1946	LEU	3.3
2	K	811	MET	3.3
2	I	123	ALA	3.3
2	H	1196	PHE	3.3
2	J	1160	PHE	3.3
2	I	2070	ILE	3.3
1	B	558	LEU	3.3
2	H	1969	LEU	3.3
2	K	741	LEU	3.3
2	L	559	PHE	3.3
2	H	663	ILE	3.2
2	K	611	THR	3.2
2	J	1467	LEU	3.2
2	L	1042	PHE	3.2
2	I	2074	TRP	3.2
2	J	122	ILE	3.2
2	G	1259	LEU	3.2
2	K	142	ALA	3.2
2	G	494	ILE	3.2
2	I	435	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
2	K	488	PRO	3.2
2	H	25	VAL	3.2
2	K	572	TRP	3.2
2	G	635	TYR	3.2
2	K	868	LEU	3.2
2	K	1041	TRP	3.2
2	J	566	VAL	3.2
2	G	298	ALA	3.2
2	L	1196	PHE	3.2
2	K	92	GLU	3.2
2	G	783	GLY	3.2
2	J	102	LEU	3.2
2	J	276	LEU	3.2
2	L	1951	ILE	3.2
2	K	946	HIS	3.2
2	L	627	HIS	3.2
2	H	807	PHE	3.2
2	K	140	TYR	3.2
2	K	1425	PRO	3.2
2	G	490	LEU	3.2
2	G	744	THR	3.2
2	H	1867	MET	3.2
2	J	513	ILE	3.2
1	D	570	TYR	3.2
2	H	290	VAL	3.2
2	K	390	VAL	3.2
1	B	1519	VAL	3.2
2	G	290	VAL	3.2
2	H	606	ALA	3.2
2	I	72	VAL	3.2
2	K	69	PRO	3.2
2	J	867	LYS	3.2
1	D	1620	PHE	3.2
2	I	505	THR	3.2
2	J	1435	TYR	3.2
2	L	1580	TYR	3.2
1	E	79	LEU	3.2
2	H	543	GLY	3.2
2	L	558	LEU	3.2
2	L	1121	LEU	3.2
2	L	1833	PHE	3.2
2	H	193	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
2	H	1916	GLU	3.2
2	J	868	LEU	3.1
2	H	812	PHE	3.1
2	K	1050	SER	3.1
1	C	18	LEU	3.1
1	E	880	LEU	3.1
2	G	281	GLY	3.1
2	H	524	ILE	3.1
1	B	555	GLN	3.1
2	K	1530	TYR	3.1
2	I	1370	LEU	3.1
1	A	26	VAL	3.1
2	G	1850	VAL	3.1
2	L	1840	GLU	3.1
1	F	14	LEU	3.1
2	H	580	LEU	3.1
2	K	268	LEU	3.1
1	B	44	ILE	3.1
1	C	584	ILE	3.1
2	I	1917	ILE	3.1
2	I	617	PHE	3.1
2	L	1694	PHE	3.1
2	K	1999	ARG	3.1
2	I	1936	LEU	3.1
2	I	1234	ILE	3.1
2	J	1053	ILE	3.1
2	K	227	ILE	3.1
2	G	32	GLU	3.1
2	L	1126	GLU	3.1
2	G	45	ALA	3.1
2	G	176	GLN	3.1
2	K	986	LEU	3.1
2	K	364	HIS	3.1
2	K	1030	PHE	3.1
2	J	598	LEU	3.1
2	L	190	TYR	3.1
2	L	255	LEU	3.1
2	J	589	PHE	3.1
2	K	1090	ILE	3.1
2	K	1818	PHE	3.1
2	H	1883	MET	3.1
2	L	1994	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
2	K	951	ILE	3.1
1	B	778	LEU	3.1
2	H	1244	LEU	3.1
2	K	297	THR	3.1
2	L	1246	LEU	3.1
2	G	109	PHE	3.1
2	J	740	ILE	3.1
2	J	1350	ILE	3.1
2	H	1620	VAL	3.1
2	L	293	ALA	3.1
2	I	1481	ILE	3.1
2	H	603	VAL	3.1
1	E	18	LEU	3.1
2	K	661	ASN	3.1
2	K	694	ALA	3.1
2	L	178	ASN	3.1
2	H	1350	ILE	3.1
1	C	9	LEU	3.1
2	G	815	ARG	3.1
2	H	99	LEU	3.1
2	H	1692	TYR	3.0
2	J	791	TYR	3.0
2	J	1176	PHE	3.0
2	G	761	ILE	3.0
2	J	501	TRP	3.0
2	L	1234	ILE	3.0
2	L	1347	ASP	3.0
2	K	1028	VAL	3.0
2	H	208	LEU	3.0
2	K	1246	LEU	3.0
2	G	487	ILE	3.0
2	H	38	PRO	3.0
2	H	1361	ILE	3.0
1	A	77	GLN	3.0
2	K	1065	CYS	3.0
2	G	664	TYR	3.0
2	I	1348	PHE	3.0
2	K	717	LYS	3.0
2	L	294	ALA	3.0
2	J	284	GLY	3.0
2	L	180	GLU	3.0
2	K	1225	SER	3.0

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Mol	Chain	Res	Type	RSRZ
1	F	1460	PRO	3.0
2	H	2010	LEU	3.0
2	L	631	ALA	3.0
2	H	1429	VAL	3.0
2	L	1141	LYS	3.0
2	H	1067	LEU	3.0
2	K	1939	LEU	3.0
1	E	1220	ASN	3.0
1	E	560	LYS	3.0
2	K	1336	VAL	3.0
2	K	1374	VAL	3.0
2	L	260	HIS	3.0
2	L	581	VAL	3.0
1	B	1274	LYS	3.0
2	G	1841	TYR	3.0
2	G	390	VAL	3.0
2	J	935	VAL	3.0
2	K	1031	VAL	3.0
2	L	1693	VAL	3.0
2	J	578	PRO	3.0
2	J	33	PHE	3.0
2	H	1919	ASN	3.0
2	K	119	VAL	3.0
2	L	1599	TYR	3.0
1	D	1574	LEU	3.0
2	G	1969	LEU	3.0
2	I	1395	LEU	3.0
2	K	437	ALA	3.0
2	K	674	ILE	3.0
2	L	1055	ALA	3.0
2	L	630	LEU	3.0
2	L	1619	LEU	3.0
2	L	1261	PHE	3.0
2	H	32	GLU	3.0
2	K	791	TYR	3.0
1	D	9	LEU	3.0
2	G	113	PHE	3.0
2	K	47	GLN	3.0
2	K	1777	THR	3.0
1	C	954	ARG	2.9
2	L	1885	ALA	2.9
2	G	1943	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
2	H	1490	PHE	2.9
2	I	627	HIS	2.9
2	K	512	HIS	2.9
2	J	1401	ILE	2.9
1	A	1554	LEU	2.9
1	E	963	LEU	2.9
2	J	1915	LEU	2.9
2	L	1289	TYR	2.9
2	J	304	PHE	2.9
2	G	376	ARG	2.9
2	H	166	ASN	2.9
1	B	608	LYS	2.9
1	E	569	LEU	2.9
1	E	577	LEU	2.9
2	I	1195	LEU	2.9
2	J	147	ALA	2.9
2	J	1920	TYR	2.9
2	K	217	ALA	2.9
1	E	1619	ALA	2.9
2	K	1349	ALA	2.9
1	D	541	VAL	2.9
1	E	558	LEU	2.9
2	G	514	VAL	2.9
2	I	628	ILE	2.9
2	K	2050	ILE	2.9
1	F	22	PHE	2.9
2	G	629	GLU	2.9
2	K	808	ASP	2.9
1	A	424	VAL	2.9
2	L	1904	VAL	2.9
2	I	1032	PRO	2.9
2	J	757	PHE	2.9
2	J	91	ASP	2.9
2	J	1999	ARG	2.9
2	K	1667	VAL	2.9
2	L	1914	LEU	2.9
2	G	791	TYR	2.9
2	I	1433	PHE	2.9
2	I	1930	ALA	2.9
2	J	1263	PHE	2.9
2	L	1345	PRO	2.9
2	L	1730	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
2	G	297	THR	2.9
2	G	645	ILE	2.9
2	H	22	ARG	2.9
2	H	1366	ILE	2.9
1	C	75	GLN	2.9
2	I	287	GLN	2.9
2	I	1954	GLN	2.9
2	J	843	TRP	2.9
1	A	42	GLU	2.9
2	J	1029	PRO	2.9
1	D	1287	LEU	2.9
2	J	36	LEU	2.9
2	J	318	ILE	2.9
2	K	691	THR	2.9
2	L	611	THR	2.9
1	D	566	PHE	2.9
2	J	2055	PHE	2.9
2	L	1324	PHE	2.9
1	F	742	TYR	2.9
2	J	2077	TYR	2.9
2	G	382	LEU	2.9
2	I	467	ILE	2.9
2	I	1998	LEU	2.9
2	K	494	ILE	2.9
2	L	860	GLU	2.9
1	F	18	LEU	2.9
2	G	518	PRO	2.9
2	I	1488	LEU	2.9
2	I	1429	VAL	2.8
2	J	777	VAL	2.8
2	K	455	VAL	2.8
2	L	80	ILE	2.8
2	J	1016	PHE	2.8
2	K	1124	THR	2.8
2	G	601	PRO	2.8
2	K	602	PRO	2.8
2	G	617	PHE	2.8
2	J	1116	PHE	2.8
2	L	617	PHE	2.8
1	E	578	ALA	2.8
2	G	472	THR	2.8
2	K	307	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	D	800	PRO	2.8
2	K	85	HIS	2.8
2	L	1836	HIS	2.8
2	I	311	ALA	2.8
1	C	1517	LEU	2.8
2	H	255	LEU	2.8
2	L	2013	GLY	2.8
2	L	42	HIS	2.8
2	K	1903	VAL	2.8
2	J	758	HIS	2.8
2	L	38	PRO	2.8
1	A	656	LEU	2.8
1	F	75	GLN	2.8
2	J	258	LEU	2.8
2	L	1921	ASN	2.8
2	K	264	THR	2.8
2	K	499	VAL	2.8
2	L	1357	ILE	2.8
2	G	690	LEU	2.8
2	L	1805	PHE	2.8
2	G	282	THR	2.8
2	H	742	GLN	2.8
2	H	201	ILE	2.8
2	J	1891	ILE	2.8
2	G	505	THR	2.8
2	I	1916	GLU	2.8
2	K	2062	THR	2.8
1	D	799	LEU	2.8
2	I	2035	LEU	2.8
1	E	1226	VAL	2.8
1	F	78	ILE	2.8
2	I	286	SER	2.8
2	H	588	THR	2.8
2	L	2077	TYR	2.8
1	A	566	PHE	2.8
2	J	1988	GLN	2.8
1	D	1492	GLU	2.8
2	I	717	LYS	2.8
2	H	1419	LEU	2.8
2	K	1371	LEU	2.8
2	J	1204	VAL	2.8
2	K	376	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
2	L	716	PHE	2.8
2	G	513	ILE	2.8
2	H	1164	ILE	2.8
1	C	20	TYR	2.8
2	H	1834	ALA	2.8
2	J	631	ALA	2.8
2	G	605	VAL	2.8
2	H	39	THR	2.8
2	J	745	GLY	2.8
2	K	809	GLY	2.8
2	H	183	PHE	2.8
2	L	1144	TYR	2.8
2	G	105	ILE	2.7
2	I	180	GLU	2.7
2	G	604	MET	2.7
2	H	719	GLY	2.7
1	E	94	PRO	2.7
2	G	258	LEU	2.7
2	H	258	LEU	2.7
2	I	331	LEU	2.7
2	G	381	SER	2.7
2	L	140	TYR	2.7
1	C	552	ILE	2.7
2	K	1357	ILE	2.7
1	D	1274	LYS	2.7
2	J	1456	LEU	2.7
2	L	152	LYS	2.7
2	L	171	SER	2.7
1	B	963	LEU	2.7
2	G	1200	ARG	2.7
2	J	1969	LEU	2.7
1	C	1461	PHE	2.7
1	A	570	TYR	2.7
2	L	687	ILE	2.7
2	H	1122	LYS	2.7
2	K	223	LYS	2.7
2	I	252	LEU	2.7
2	I	816	MET	2.7
2	I	1805	PHE	2.7
2	I	606	ALA	2.7
2	H	376	ARG	2.7
2	I	1350	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
2	I	541	LEU	2.7
2	K	1732	PHE	2.7
2	H	635	TYR	2.7
2	K	182	TYR	2.7
2	L	537	VAL	2.7
2	G	1589	PRO	2.7
2	L	1969	LEU	2.7
2	L	1620	VAL	2.7
2	J	140	TYR	2.7
1	B	583	GLN	2.7
2	J	792	LEU	2.7
2	K	1488	LEU	2.7
2	H	2004	PRO	2.7
2	L	23	PRO	2.7
2	K	90	GLY	2.7
2	I	1451	GLU	2.7
2	K	1472	TRP	2.7
2	J	105	ILE	2.7
2	I	926	LEU	2.7
2	K	382	LEU	2.7
2	L	75	LEU	2.7
2	J	526	VAL	2.7
1	A	1538	ILE	2.7
1	C	28	TRP	2.7
2	G	1164	ILE	2.7
2	G	910	PHE	2.7
2	I	173	PHE	2.7
2	J	328	ARG	2.7
2	L	2043	VAL	2.7
2	J	265	CYS	2.7
2	K	253	ILE	2.7
2	H	478	LEU	2.7
2	L	1488	LEU	2.7
1	D	1506	ALA	2.7
2	L	865	ILE	2.7
2	L	1399	ALA	2.7
2	G	1939	LEU	2.6
2	L	690	LEU	2.6
2	K	1770	ASN	2.6
2	G	782	PHE	2.6
2	H	526	VAL	2.6
2	H	1835	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
2	J	1202	MET	2.6
2	L	1926	GLN	2.6
1	D	756	ILE	2.6
2	G	774	ILE	2.6
2	J	865	ILE	2.6
2	K	325	ALA	2.6
2	L	1350	ILE	2.6
1	F	799	LEU	2.6
2	L	231	LEU	2.6
2	L	677	LEU	2.6
2	L	1244	LEU	2.6
2	L	1371	LEU	2.6
2	L	1335	PHE	2.6
1	C	39	LYS	2.6
2	G	1068	GLN	2.6
2	H	1697	GLN	2.6
2	K	1224	GLN	2.6
2	H	28	HIS	2.6
2	H	1034	LEU	2.6
2	H	1619	LEU	2.6
2	L	597	LEU	2.6
2	K	501	TRP	2.6
2	I	1947	LYS	2.6
2	J	1804	GLN	2.6
1	E	1612	ILE	2.6
1	F	777	LEU	2.6
2	I	276	LEU	2.6
2	I	558	LEU	2.6
2	K	1856	LEU	2.6
2	L	208	LEU	2.6
2	I	1993	PHE	2.6
2	J	512	HIS	2.6
2	K	1048	TRP	2.6
2	H	604	MET	2.6
2	I	808	ASP	2.6
2	G	1066	ILE	2.6
2	H	1998	LEU	2.6
2	K	122	ILE	2.6
2	K	744	THR	2.6
2	G	272	PRO	2.6
2	L	789	TYR	2.6
2	I	175	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	1441	LEU	2.6
1	E	545	LEU	2.6
2	L	724	ILE	2.6
2	J	293	ALA	2.6
2	K	78	ARG	2.6
2	G	603	VAL	2.6
2	I	557	GLU	2.6
2	I	1844	LEU	2.6
2	J	563	ASP	2.6
2	L	1366	ILE	2.6
1	D	1632	ALA	2.6
1	B	1318	PHE	2.6
2	G	611	THR	2.6
2	I	1793	TYR	2.6
2	J	619	ALA	2.6
2	H	383	VAL	2.6
2	J	174	GLY	2.6
2	G	1838	LEU	2.6
2	K	1234	ILE	2.6
2	J	557	GLU	2.6
2	J	775	VAL	2.6
2	K	1869	VAL	2.6
1	A	1578	LEU	2.6
2	G	352	SER	2.6
2	K	193	TYR	2.6
2	G	660	VAL	2.6
2	H	521	VAL	2.6
2	K	746	GLY	2.6
1	D	853	MET	2.6
1	F	76	ARG	2.6
2	G	24	LEU	2.6
2	I	1915	LEU	2.6
2	L	26	LEU	2.6
2	H	43	PHE	2.6
2	H	1324	PHE	2.6
2	I	1732	PHE	2.6
2	K	439	PHE	2.6
2	L	1596	PHE	2.6
1	D	863	VAL	2.6
2	H	783	GLY	2.6
2	H	1227	LYS	2.6
2	H	1032	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
2	K	96	PRO	2.6
1	E	1425	LEU	2.6
2	G	1844	LEU	2.6
1	A	78	ILE	2.6
1	D	75	GLN	2.6
2	J	1293	TRP	2.6
2	G	694	ALA	2.6
1	C	648	LEU	2.6
2	K	1032	PRO	2.6
2	L	1606	ILE	2.6
2	G	35	PHE	2.5
2	I	1473	PHE	2.5
2	J	311	ALA	2.5
2	K	399	TYR	2.5
2	G	356	LEU	2.5
2	K	1244	LEU	2.5
1	F	1	MET	2.5
2	H	1891	ILE	2.5
2	L	169	ILE	2.5
2	J	297	THR	2.5
1	F	43	ARG	2.5
2	K	813	GLY	2.5
1	C	551	LEU	2.5
2	I	75	LEU	2.5
2	I	1467	LEU	2.5
2	I	1745	LEU	2.5
2	J	1571	LEU	2.5
2	H	2070	ILE	2.5
2	J	617	PHE	2.5
2	J	1273	PRO	2.5
1	F	20	TYR	2.5
2	K	712	ARG	2.5
2	H	72	VAL	2.5
2	J	1061	VAL	2.5
2	H	372	LEU	2.5
2	I	1563	LEU	2.5
2	I	169	ILE	2.5
2	K	812	PHE	2.5
2	K	1734	ILE	2.5
2	L	279	PHE	2.5
2	I	603	VAL	2.5
2	I	1068	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
2	I	1336	VAL	2.5
2	J	255	LEU	2.5
1	D	743	VAL	2.5
1	D	1633	GLN	2.5
2	I	1326	HIS	2.5
2	I	2046	LYS	2.5
2	K	197	VAL	2.5
2	G	1371	LEU	2.5
2	I	1939	LEU	2.5
1	F	552	ILE	2.5
2	G	427	ARG	2.5
2	H	810	CYS	2.5
2	J	2001	ILE	2.5
2	G	19	GLN	2.5
2	H	167	VAL	2.5
2	H	466	VAL	2.5
2	L	1844	LEU	2.5
2	L	1884	CYS	2.5
2	I	1761	TYR	2.5
2	J	694	ALA	2.5
2	K	394	PRO	2.5
2	K	1693	VAL	2.5
2	G	1456	LEU	2.5
2	I	1812	LEU	2.5
2	J	1371	LEU	2.5
2	L	868	LEU	2.5
2	H	535	THR	2.5
2	J	227	ILE	2.5
2	K	1945	ILE	2.5
2	K	1570	GLU	2.5
2	I	1305	LEU	2.5
2	L	265	CYS	2.5
2	H	27	THR	2.5
2	H	1357	ILE	2.5
2	I	692	ILE	2.5
2	I	1227	LYS	2.5
2	J	263	ILE	2.5
2	J	1945	ILE	2.5
2	K	396	ILE	2.5
2	L	2049	GLU	2.5
1	E	20	TYR	2.5
2	G	174	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
2	G	558	LEU	2.5
2	H	762	LEU	2.5
2	I	312	VAL	2.5
2	H	1160	PHE	2.5
2	L	204	ILE	2.5
2	G	277	GLU	2.5
1	A	558	LEU	2.5
2	J	90	GLY	2.5
2	J	1395	LEU	2.5
2	H	516	PHE	2.5
2	L	1680	GLN	2.5
2	I	1405	ILE	2.5
1	E	570	TYR	2.5
2	G	275	LEU	2.5
2	I	1600	ALA	2.5
2	K	1123	ALA	2.5
2	K	1743	LYS	2.5
2	I	1596	PHE	2.5
1	A	59	ARG	2.5
2	K	1772	ASP	2.5
2	I	1126	GLU	2.5
1	B	1637	VAL	2.4
1	A	1344	THR	2.4
2	H	2039	TYR	2.4
2	I	1435	TYR	2.4
2	J	1504	TYR	2.4
2	L	304	PHE	2.4
1	A	681	ILE	2.4
1	E	42	GLU	2.4
2	I	1066	ILE	2.4
1	B	837	LEU	2.4
1	E	841	GLY	2.4
2	I	1456	LEU	2.4
2	L	2035	LEU	2.4
2	G	439	PHE	2.4
2	H	1841	TYR	2.4
1	F	88	ILE	2.4
2	K	32	GLU	2.4
2	K	714	ILE	2.4
2	I	1867	MET	2.4
1	A	541	VAL	2.4
1	F	1267	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
2	H	655	GLY	2.4
2	G	1361	ILE	2.4
2	H	486	ILE	2.4
2	K	718	PRO	2.4
2	I	275	LEU	2.4
2	L	1540	VAL	2.4
2	H	743	TRP	2.4
2	K	43	PHE	2.4
2	L	2054	TYR	2.4
2	I	742	GLN	2.4
2	J	768	ILE	2.4
2	L	2061	LEU	2.4
1	A	1489	PHE	2.4
2	K	2074	TRP	2.4
2	J	518	PRO	2.4
2	K	39	THR	2.4
2	K	98	ASN	2.4
2	I	1914	LEU	2.4
2	I	284	GLY	2.4
2	J	1417	GLY	2.4
2	K	83	VAL	2.4
2	L	1859	VAL	2.4
1	D	20	TYR	2.4
2	G	810	CYS	2.4
2	I	1160	PHE	2.4
2	G	876	TRP	2.4
2	L	1340	LYS	2.4
1	C	1556	ILE	2.4
1	D	78	ILE	2.4
2	I	883	ILE	2.4
2	I	1242	ILE	2.4
2	K	352	SER	2.4
1	B	1361	VAL	2.4
1	D	1642	LEU	2.4
1	F	1503	LEU	2.4
2	J	594	MET	2.4
2	K	792	LEU	2.4
2	K	1571	LEU	2.4
2	I	1230	LYS	2.4
2	K	1070	PRO	2.4
2	J	1761	TYR	2.4
2	L	1842	SER	2.4

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Mol	Chain	Res	Type	RSRZ
2	I	1175	MET	2.4
2	L	1202	MET	2.4
2	H	611	THR	2.4
2	K	659	THR	2.4
2	G	1349	ALA	2.4
2	I	1356	ALA	2.4
2	L	1929	ALA	2.4
2	G	169	ILE	2.4
2	I	1366	ILE	2.4
1	F	778	LEU	2.4
2	H	558	LEU	2.4
2	J	104	LEU	2.4
2	K	1805	PHE	2.4
2	I	602	PRO	2.4
2	H	1144	TYR	2.4
2	I	1268	GLU	2.4
2	I	172	ILE	2.4
1	A	18	LEU	2.4
1	F	1519	VAL	2.4
2	G	393	GLY	2.4
2	H	1038	PHE	2.4
2	J	1339	GLY	2.4
2	J	1144	TYR	2.4
2	K	542	ALA	2.4
1	B	1538	ILE	2.4
1	D	844	ILE	2.4
2	H	1917	ILE	2.4
2	L	1066	ILE	2.4
2	H	527	LEU	2.4
2	L	514	VAL	2.4
1	A	553	ARG	2.4
2	J	2005	PHE	2.4
2	G	1734	ILE	2.4
2	I	1924	ASN	2.4
2	H	1936	LEU	2.4
2	K	621	THR	2.4
2	J	873	VAL	2.3
2	J	1616	VAL	2.3
2	K	1309	PHE	2.3
2	K	557	GLU	2.3
2	L	1227	LYS	2.3
2	H	247	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
2	H	292	ALA	2.3
1	E	422	LEU	2.3
2	H	690	LEU	2.3
2	I	204	ILE	2.3
2	I	711	ILE	2.3
2	J	1033	ALA	2.3
2	K	38	PRO	2.3
2	L	2039	TYR	2.3
2	J	331	LEU	2.3
2	I	777	VAL	2.3
2	J	1071	VAL	2.3
2	J	1358	THR	2.3
2	K	609	THR	2.3
2	L	1436	ARG	2.3
1	E	1669	PHE	2.3
1	F	1461	PHE	2.3
2	L	1433	PHE	2.3
2	H	816	MET	2.3
1	B	90	TYR	2.3
1	C	545	LEU	2.3
1	D	775	LEU	2.3
1	E	340	LEU	2.3
2	H	435	ILE	2.3
2	J	351	LEU	2.3
2	K	1087	LEU	2.3
2	L	1192	LEU	2.3
1	E	48	GLY	2.3
2	I	76	VAL	2.3
2	K	1886	VAL	2.3
2	G	816	MET	2.3
2	H	1175	MET	2.3
2	I	594	MET	2.3
2	I	688	GLU	2.3
2	J	1127	GLU	2.3
2	J	1427	MET	2.3
1	D	552	ILE	2.3
1	E	839	ILE	2.3
2	J	294	ALA	2.3
2	K	481	LEU	2.3
2	L	331	LEU	2.3
2	G	607	GLY	2.3
2	I	49	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	749	GLY	2.3
2	J	860	GLU	2.3
1	E	14	LEU	2.3
1	F	90	TYR	2.3
2	G	631	ALA	2.3
2	G	1195	LEU	2.3
2	G	1936	LEU	2.3
2	I	1571	LEU	2.3
2	G	76	VAL	2.3
2	G	867	LYS	2.3
2	G	1325	VAL	2.3
2	I	73	VAL	2.3
2	J	1038	PHE	2.3
2	L	466	VAL	2.3
2	L	603	VAL	2.3
2	I	750	GLY	2.3
2	G	692	ILE	2.3
2	H	1989	LEU	2.3
2	J	879	LEU	2.3
2	H	757	PHE	2.3
2	H	1232	VAL	2.3
2	K	993	VAL	2.3
2	K	1827	VAL	2.3
2	K	749	GLY	2.3
2	L	1032	PRO	2.3
1	B	28	TRP	2.3
2	G	626	TYR	2.3
2	I	1125	ASP	2.3
2	K	353	ILE	2.3
2	K	1047	LEU	2.3
2	L	741	LEU	2.3
2	I	1050	SER	2.3
2	K	1774	SER	2.3
2	J	882	LYS	2.3
1	A	778	LEU	2.3
2	G	486	ILE	2.3
2	G	868	LEU	2.3
2	K	287	GLN	2.3
2	L	102	LEU	2.3
2	I	1635	TYR	2.3
2	G	491	VAL	2.3
2	G	1490	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	290	VAL	2.3
2	I	817	MET	2.3
2	G	401	LEU	2.3
2	H	275	LEU	2.3
2	J	225	LEU	2.3
2	J	1195	LEU	2.3
2	L	879	LEU	2.3
2	J	743	TRP	2.3
2	H	1433	PHE	2.3
2	I	283	THR	2.3
2	J	505	THR	2.3
2	J	1805	PHE	2.3
2	L	812	PHE	2.3
2	L	350	MET	2.3
1	A	963	LEU	2.3
2	J	285	HIS	2.3
2	J	902	ILE	2.3
2	L	1206	ILE	2.3
2	L	1326	HIS	2.3
1	D	1209	PHE	2.3
2	G	1348	PHE	2.3
2	H	1833	PHE	2.3
2	I	1324	PHE	2.3
2	K	2017	PHE	2.3
1	C	804	ASN	2.3
2	G	755	GLU	2.3
2	H	1128	PRO	2.3
2	K	99	LEU	2.3
2	K	408	VAL	2.3
2	K	1289	TYR	2.3
2	G	788	THR	2.3
1	E	656	LEU	2.3
2	G	1915	LEU	2.3
2	H	1997	PRO	2.3
2	I	986	LEU	2.3
2	K	816	MET	2.3
2	K	1799	LEU	2.3
1	D	1556	ILE	2.3
2	H	540	ILE	2.3
2	I	663	ILE	2.3
2	G	1954	GLN	2.3
2	H	1902	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
2	I	1949	GLN	2.3
2	J	826	LYS	2.3
2	J	167	VAL	2.3
2	K	559	PHE	2.3
2	J	260	HIS	2.3
2	K	775	VAL	2.3
2	H	876	TRP	2.2
2	J	520	GLY	2.2
1	C	799	LEU	2.2
1	D	1554	LEU	2.2
1	E	1517	LEU	2.2
2	G	1956	LEU	2.2
2	I	690	LEU	2.2
2	K	1427	MET	2.2
2	L	1679	LEU	2.2
2	G	201	ILE	2.2
2	I	740	ILE	2.2
2	K	761	ILE	2.2
1	A	742	TYR	2.2
1	C	573	VAL	2.2
2	H	1910	VAL	2.2
1	A	1520	ALA	2.2
2	I	261	TYR	2.2
2	K	1651	VAL	2.2
2	J	519	GLY	2.2
2	G	1357	ILE	2.2
2	J	711	ILE	2.2
2	K	1294	PHE	2.2
2	L	1401	ILE	2.2
2	I	1904	VAL	2.2
2	K	2058	VAL	2.2
1	F	551	LEU	2.2
2	G	1411	LYS	2.2
2	H	709	LEU	2.2
2	J	1653	LEU	2.2
1	F	24	MET	2.2
2	I	807	PHE	2.2
2	K	2048	PHE	2.2
2	G	248	VAL	2.2
2	G	695	GLY	2.2
2	H	1599	TYR	2.2
2	I	140	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
2	I	1200	ARG	2.2
1	D	1303	LEU	2.2
2	G	1225	SER	2.2
2	K	215	TRP	2.2
1	F	908	ILE	2.2
2	I	1038	PHE	2.2
2	I	1204	VAL	2.2
2	J	1643	VAL	2.2
2	L	487	ILE	2.2
1	C	43	ARG	2.2
2	H	2077	TYR	2.2
2	K	149	ARG	2.2
2	K	495	THR	2.2
2	L	267	THR	2.2
1	C	79	LEU	2.2
2	L	1133	LEU	2.2
1	B	584	ILE	2.2
1	C	908	ILE	2.2
1	E	863	VAL	2.2
2	G	101	VAL	2.2
2	G	663	ILE	2.2
2	J	1987	VAL	2.2
2	K	552	VAL	2.2
2	K	1917	ILE	2.2
2	L	566	VAL	2.2
2	H	140	TYR	2.2
2	H	532	LYS	2.2
2	H	528	THR	2.2
2	H	1615	ALA	2.2
2	J	543	GLY	2.2
2	K	505	THR	2.2
2	K	588	THR	2.2
1	A	1574	LEU	2.2
1	B	740	LEU	2.2
1	C	14	LEU	2.2
2	I	1826	LEU	2.2
2	J	810	CYS	2.2
1	D	28	TRP	2.2
2	K	1094	HIS	2.2
2	H	172	ILE	2.2
2	H	589	PHE	2.2
2	I	1766	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	1379	VAL	2.2
2	H	605	VAL	2.2
2	H	1942	VAL	2.2
2	J	451	ILE	2.2
2	J	460	ILE	2.2
2	J	1769	VAL	2.2
1	D	745	PRO	2.2
1	B	79	LEU	2.2
1	E	799	LEU	2.2
1	F	1673	LEU	2.2
2	H	1358	THR	2.2
2	H	1926	GLN	2.2
2	L	606	ALA	2.2
2	J	478	LEU	2.2
2	L	368	THR	2.2
2	G	512	HIS	2.2
2	H	815	ARG	2.2
2	I	811	MET	2.2
1	A	797	VAL	2.2
2	L	1130	ILE	2.2
2	I	171	SER	2.2
2	J	100	GLU	2.2
2	K	1288	PHE	2.2
2	I	227	ILE	2.2
2	J	2050	ILE	2.2
2	L	73	VAL	2.2
2	L	594	MET	2.2
2	G	1051	GLU	2.2
2	L	1857	VAL	2.2
2	H	265	CYS	2.2
2	J	141	TYR	2.2
1	C	1574	LEU	2.2
1	F	1287	LEU	2.2
2	G	320	LEU	2.2
2	J	1087	LEU	2.2
2	L	1016	PHE	2.2
2	J	1234	ILE	2.2
2	L	501	TRP	2.2
2	L	1850	VAL	2.2
2	L	1942	VAL	2.2
2	I	2000	GLY	2.2
2	I	22	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
2	I	1235	LYS	2.2
2	J	541	LEU	2.2
2	J	941	LEU	2.2
2	L	465	LEU	2.2
2	L	1389	LEU	2.2
2	H	19	GLN	2.2
1	A	22	PHE	2.2
1	E	35	ILE	2.2
2	G	714	ILE	2.2
2	L	435	ILE	2.2
2	L	1883	MET	2.2
2	J	796	TRP	2.2
1	A	655	ALA	2.2
1	C	577	LEU	2.2
1	C	655	ALA	2.2
1	D	1142	LEU	2.2
2	G	1692	TYR	2.2
2	H	776	LEU	2.2
2	H	926	LEU	2.2
2	L	186	LEU	2.2
1	E	1461	PHE	2.2
2	J	52	PHE	2.2
2	L	1888	PRO	2.2
2	L	1895	PHE	2.2
1	B	45	VAL	2.2
2	H	469	VAL	2.2
2	J	1175	MET	2.2
2	L	1429	VAL	2.2
1	C	554	ARG	2.2
2	H	1456	LEU	2.1
2	H	1467	LEU	2.1
2	I	53	LEU	2.1
2	K	1969	LEU	2.1
2	L	228	LEU	2.1
2	L	1800	LEU	2.1
2	K	45	ALA	2.1
2	G	963	ILE	2.1
2	H	468	PRO	2.1
2	J	1480	ASP	2.1
2	K	815	ARG	2.1
2	K	1850	VAL	2.1
2	L	663	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
2	L	1903	VAL	2.1
2	L	2014	VAL	2.1
2	K	1069	GLY	2.1
1	A	61	LEU	2.1
1	B	1443	LEU	2.1
2	H	104	LEU	2.1
2	I	258	LEU	2.1
2	J	776	LEU	2.1
2	K	443	TYR	2.1
2	L	1612	THR	2.1
1	D	1625	PHE	2.1
2	L	782	PHE	2.1
2	H	935	VAL	2.1
2	H	1051	GLU	2.1
2	J	540	ILE	2.1
2	K	103	LYS	2.1
2	K	489	GLU	2.1
2	L	1590	ILE	2.1
1	C	585	MET	2.1
2	K	519	GLY	2.1
2	L	177	GLY	2.1
1	F	28	TRP	2.1
2	G	293	ALA	2.1
2	G	757	PHE	2.1
2	L	311	ALA	2.1
2	L	744	THR	2.1
2	K	1361	ILE	2.1
2	L	101	VAL	2.1
2	J	817	MET	2.1
2	J	1246	LEU	2.1
2	L	1826	LEU	2.1
2	J	310	ARG	2.1
2	J	1895	PHE	2.1
2	K	472	THR	2.1
2	K	899	ARG	2.1
2	H	289	ILE	2.1
2	H	590	VAL	2.1
2	H	628	ILE	2.1
2	J	714	ILE	2.1
2	K	1241	GLU	2.1
1	B	745	PRO	2.1
2	G	677	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	557	ARG	2.1
1	C	1274	LYS	2.1
2	J	962	PHE	2.1
1	C	680	VAL	2.1
2	G	1903	VAL	2.1
2	K	166	ASN	2.1
2	H	865	ILE	2.1
2	J	1065	CYS	2.1
2	K	513	ILE	2.1
2	K	2070	ILE	2.1
2	L	609	THR	2.1
2	L	1891	ILE	2.1
2	L	1953	ILE	2.1
2	G	776	LEU	2.1
2	K	783	GLY	2.1
2	I	434	PRO	2.1
2	K	858	LEU	2.1
2	K	962	PHE	2.1
2	L	2011	ARG	2.1
2	J	1902	TYR	2.1
1	A	1553	VAL	2.1
2	I	1747	VAL	2.1
2	K	1531	GLU	2.1
2	J	628	ILE	2.1
2	J	1366	ILE	2.1
2	L	455	VAL	2.1
2	H	58	GLN	2.1
2	L	824	THR	2.1
2	G	1244	LEU	2.1
2	I	1246	LEU	2.1
2	I	1856	LEU	2.1
2	J	1867	MET	2.1
2	L	986	LEU	2.1
1	D	1461	PHE	2.1
1	F	81	TYR	2.1
2	G	1535	SER	2.1
2	K	1841	TYR	2.1
2	K	2075	ASP	2.1
2	H	1859	VAL	2.1
2	K	914	TRP	2.1
2	L	291	VAL	2.1
1	C	555	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
2	G	691	THR	2.1
2	I	1653	LEU	2.1
2	K	742	GLN	2.1
2	L	376	ARG	2.1
2	L	2010	LEU	2.1
2	H	1596	PHE	2.1
2	I	139	ALA	2.1
2	L	193	TYR	2.1
2	J	629	GLU	2.1
1	A	839	ILE	2.1
1	F	1226	VAL	2.1
2	G	1234	ILE	2.1
2	G	1951	ILE	2.1
2	I	902	ILE	2.1
1	B	1303	LEU	2.1
1	C	1554	LEU	2.1
2	G	143	GLY	2.1
2	H	861	MET	2.1
1	E	22	PHE	2.1
2	K	737	PHE	2.1
2	K	1231	THR	2.1
2	L	2020	PHE	2.1
2	J	447	ALA	2.1
2	L	296	ALA	2.1
1	C	557	ARG	2.1
1	D	908	ILE	2.1
2	G	1871	VAL	2.1
2	H	204	ILE	2.1
2	H	291	VAL	2.1
2	K	814	SER	2.1
1	E	36	LEU	2.1
1	F	9	LEU	2.1
1	B	332	GLN	2.1
2	K	1867	MET	2.1
1	A	1623	THR	2.1
2	J	824	THR	2.1
2	L	1906	ASN	2.1
2	J	1040	TYR	2.1
1	A	1226	VAL	2.1
2	H	645	ILE	2.1
1	A	9	LEU	2.1
1	A	837	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	774	LEU	2.1
1	D	778	LEU	2.1
2	K	2061	LEU	2.1
1	A	708	GLN	2.1
2	J	568	PHE	2.1
2	J	1068	GLN	2.1
2	J	1479	HIS	2.1
2	I	1016	PHE	2.1
2	H	1920	TYR	2.1
2	J	1887	ASN	2.1
1	B	573	VAL	2.1
2	I	1349	ALA	2.1
2	K	687	ILE	2.1
2	L	1370	LEU	2.1
1	D	451	HIS	2.1
2	I	58	GLN	2.0
2	H	308	ALA	2.0
2	K	1627	ASN	2.0
2	L	1509	THR	2.0
1	B	1266	LEU	2.0
1	C	681	ILE	2.0
1	D	1503	LEU	2.0
1	E	1148	LEU	2.0
2	J	1492	LEU	2.0
2	J	1679	LEU	2.0
2	L	1589	PRO	2.0
2	H	262	MET	2.0
2	K	1375	HIS	2.0
2	K	1966	ARG	2.0
2	L	1172	ARG	2.0
2	L	185	GLU	2.0
2	L	1916	GLU	2.0
1	E	573	VAL	2.0
2	J	1730	TYR	2.0
2	K	256	VAL	2.0
2	K	838	VAL	2.0
2	K	1435	TYR	2.0
1	F	681	ILE	2.0
1	D	1225	GLY	2.0
2	G	1962	LEU	2.0
2	I	1130	ILE	2.0
2	I	1746	THR	2.0

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Mol	Chain	Res	Type	RSRZ
2	J	38	PRO	2.0
2	J	741	LEU	2.0
2	J	1373	LEU	2.0
2	J	1444	ASN	2.0
2	L	2048	PHE	2.0
1	C	586	GLN	2.0
2	G	753	SER	2.0
1	B	1418	ILE	2.0
1	C	1380	ALA	2.0
1	E	17	LEU	2.0
2	G	433	LEU	2.0
2	G	544	ALA	2.0
2	L	1902	TYR	2.0
2	G	1122	LYS	2.0
2	I	1163	LEU	2.0
2	J	314	LEU	2.0
2	L	1734	ILE	2.0
2	J	657	GLY	2.0
2	G	1016	PHE	2.0
2	H	641	MET	2.0
1	C	45	VAL	2.0
2	G	857	VAL	2.0
2	G	1321	VAL	2.0
2	G	1620	VAL	2.0
2	I	291	VAL	2.0
2	K	1061	VAL	2.0
1	C	1506	ALA	2.0
2	G	102	LEU	2.0
2	I	147	ALA	2.0
2	I	1624	ALA	2.0
2	K	373	PRO	2.0
1	A	1382	THR	2.0
2	K	107	ASN	2.0
2	I	1886	VAL	2.0
2	J	660	VAL	2.0
2	J	1034	LEU	2.0
2	K	509	ASP	2.0
2	K	715	SER	2.0
2	L	182	TYR	2.0
2	L	1663	LYS	2.0
1	D	801	LEU	2.0
1	E	1450	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
2	L	1448	ARG	2.0
2	K	183	PHE	2.0
2	I	430	ASN	2.0
2	L	505	THR	2.0
2	L	1919	ASN	2.0
1	A	1291	TYR	2.0
1	B	58	ARG	2.0
1	B	1607	TYR	2.0
1	C	740	LEU	2.0
1	D	774	LEU	2.0
1	E	1574	LEU	2.0
2	H	997	LEU	2.0
2	I	1692	TYR	2.0
2	I	1989	LEU	2.0
2	J	537	VAL	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.

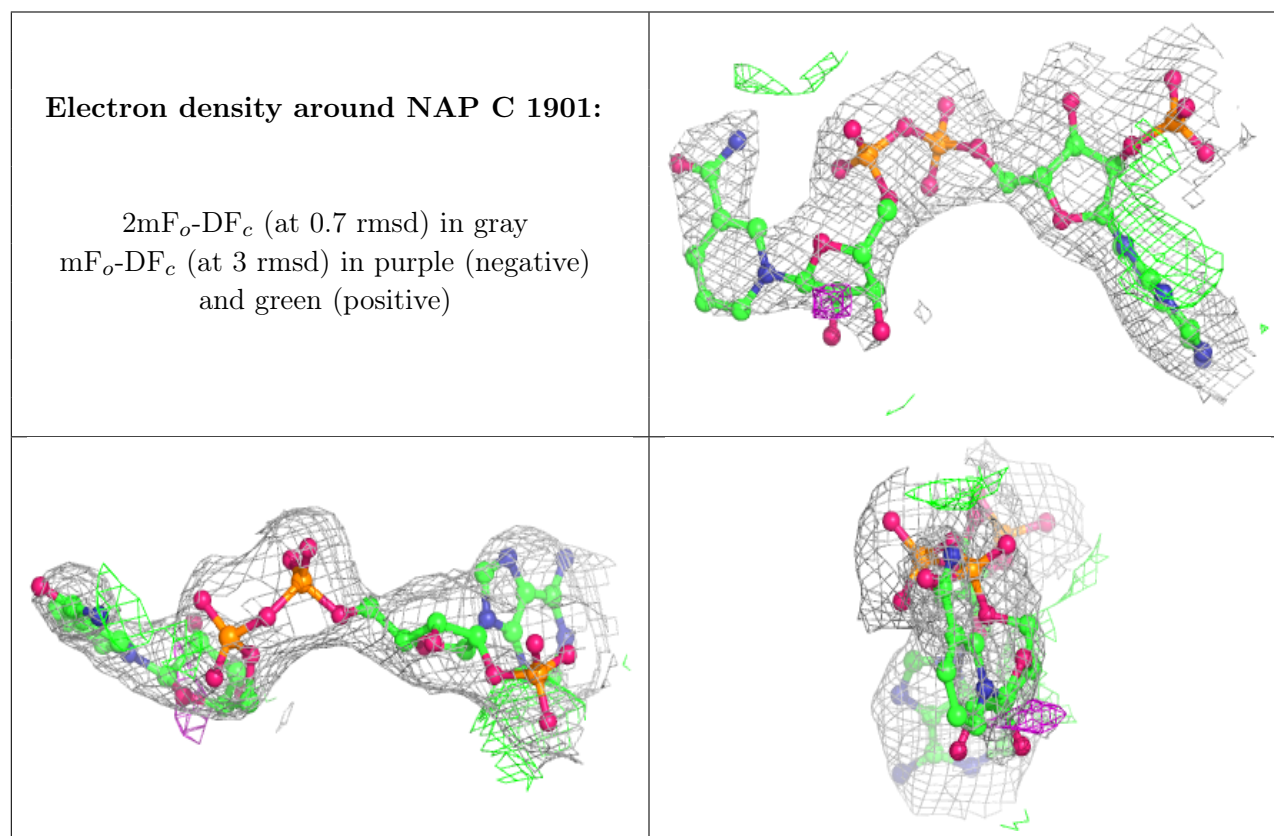
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAP	C	1901	48/48	0.87	0.34	23,81,130,171	0
3	NAP	D	1901	48/48	0.87	0.34	21,83,127,174	0
3	NAP	F	1901	48/48	0.87	0.31	19,78,125,159	0
3	NAP	J	2102	48/48	0.89	0.21	35,88,118,120	0
3	NAP	A	1901	48/48	0.90	0.32	19,76,121,169	0
3	NAP	K	2102	48/48	0.90	0.29	43,94,127,131	0
3	NAP	H	2102	48/48	0.92	0.25	37,85,113,122	0
3	NAP	B	1901	48/48	0.92	0.32	23,78,115,145	0

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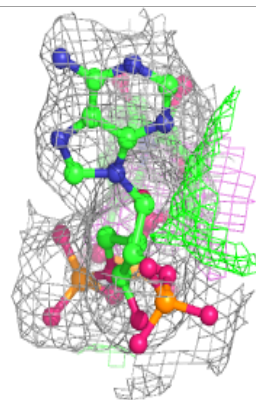
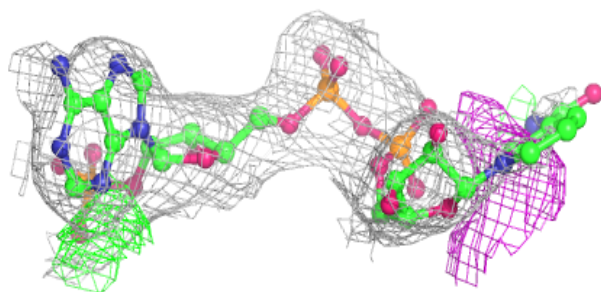
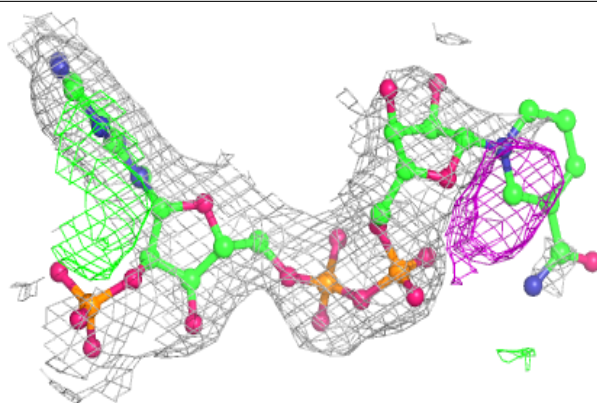
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAP	G	2102	48/48	0.92	0.24	42,87,119,128	0
4	FMN	K	2101	31/31	0.92	0.36	27,66,110,123	0
3	NAP	L	2102	48/48	0.93	0.31	37,84,116,120	0
3	NAP	E	1901	48/48	0.93	0.26	24,77,123,157	0
4	FMN	J	2101	31/31	0.94	0.32	23,61,101,113	0
3	NAP	I	2102	48/48	0.95	0.26	29,80,104,116	0
4	FMN	G	2101	31/31	0.95	0.31	26,63,101,111	0
4	FMN	H	2101	31/31	0.96	0.32	25,49,105,113	0
4	FMN	L	2101	31/31	0.96	0.29	19,59,102,114	0
4	FMN	I	2101	31/31	0.97	0.30	22,56,87,103	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

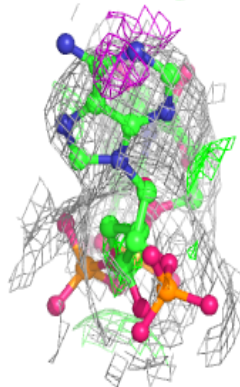
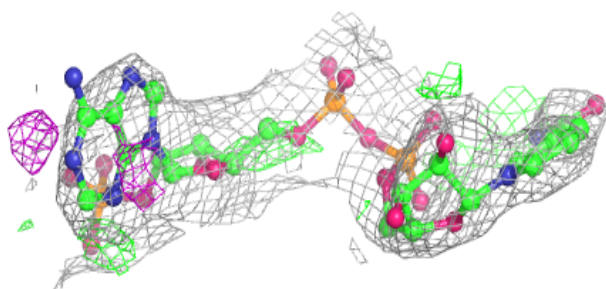
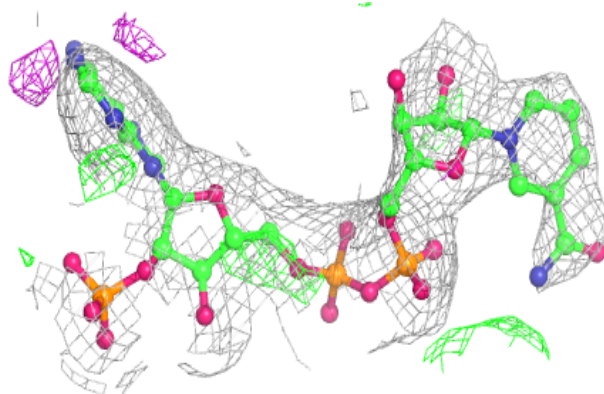


Electron density around NAP D 1901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

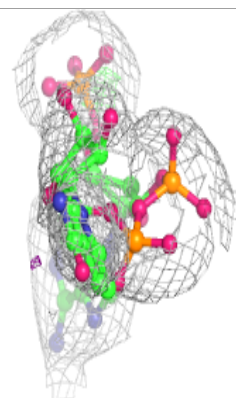
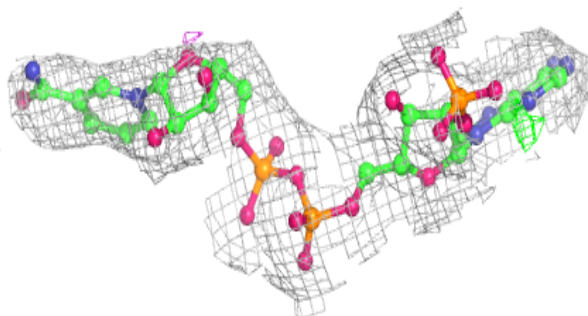
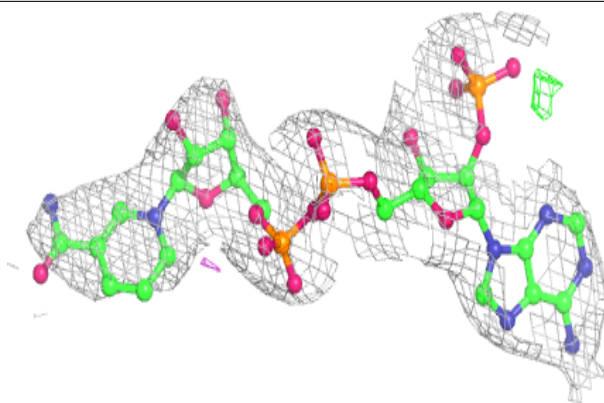
**Electron density around NAP F 1901:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

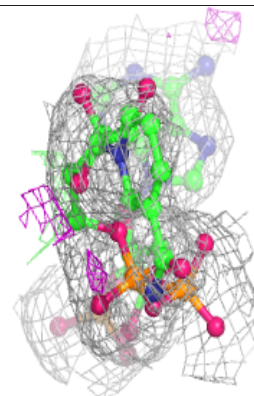
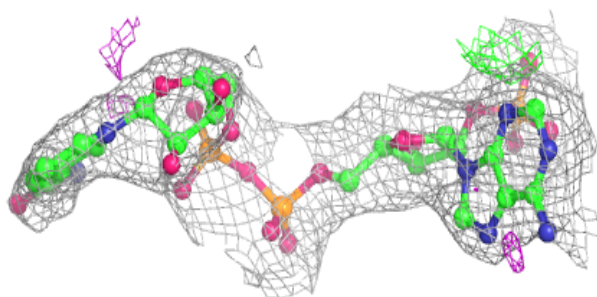
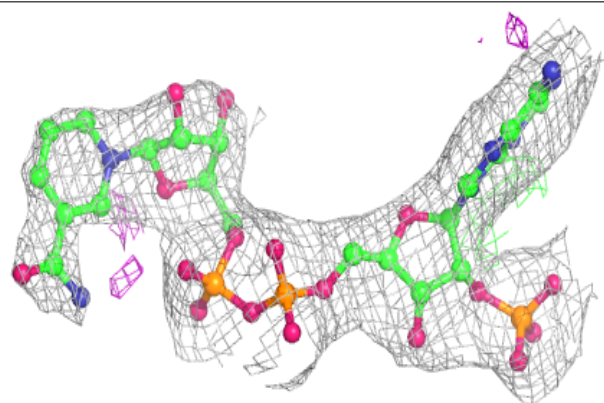


Electron density around NAP J 2102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

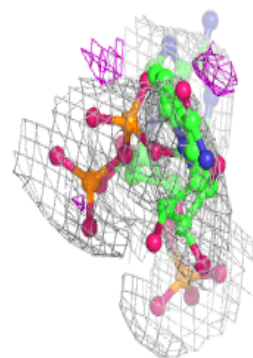
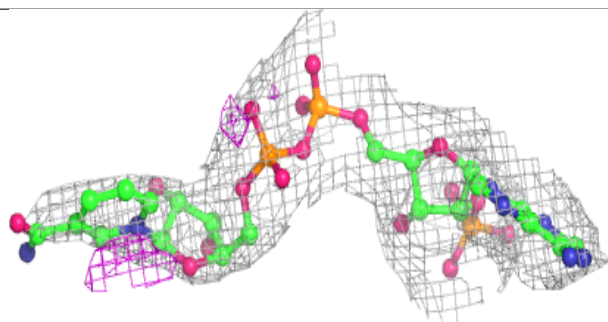
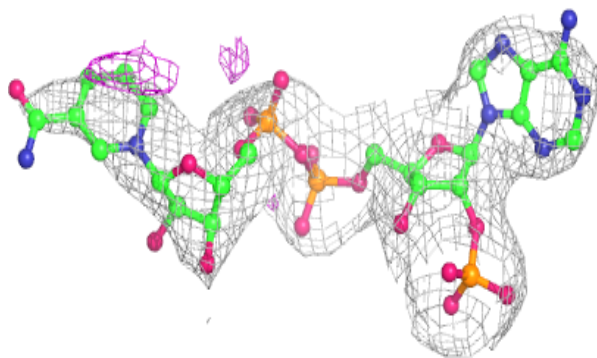
**Electron density around NAP A 1901:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

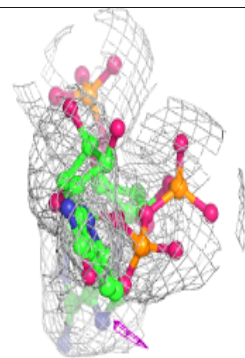
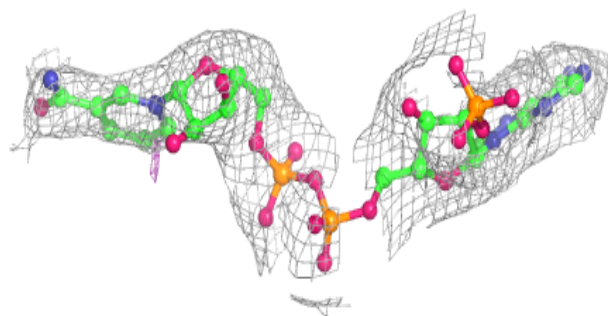
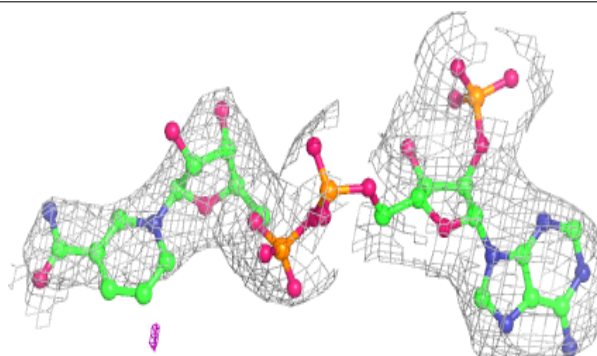


Electron density around NAP K 2102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

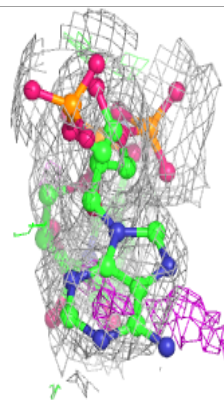
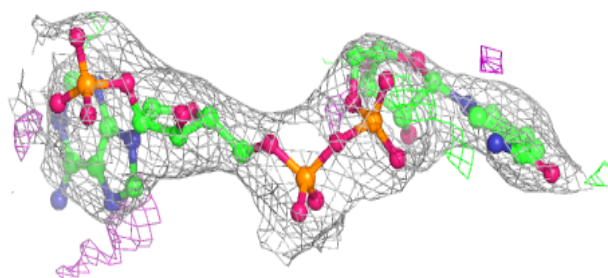
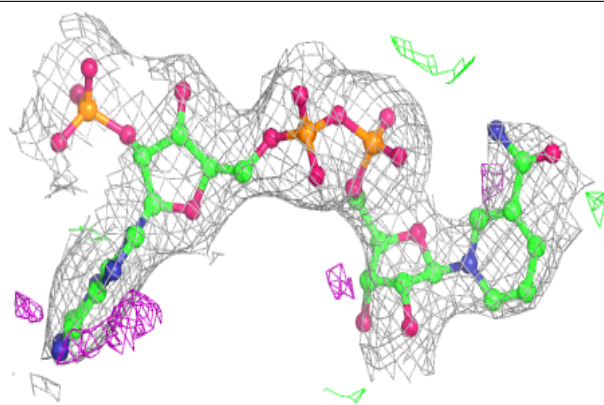
**Electron density around NAP H 2102:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

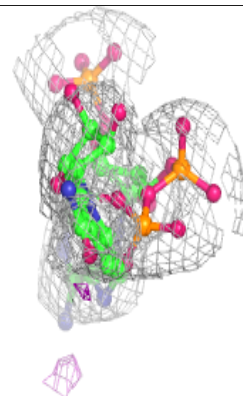
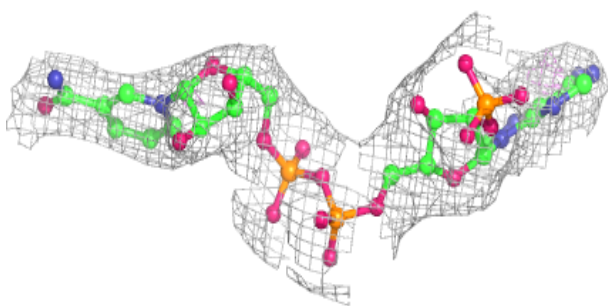
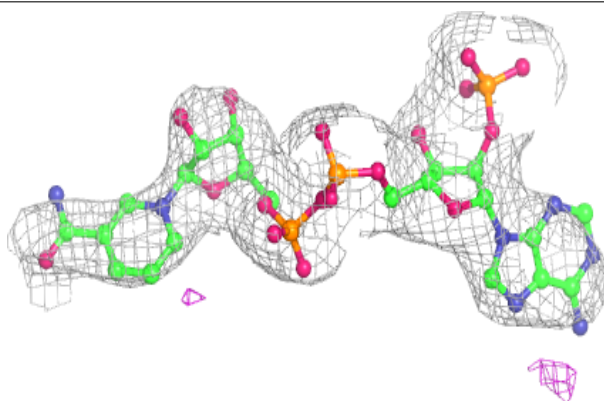


Electron density around NAP B 1901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

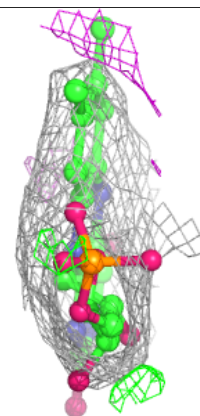
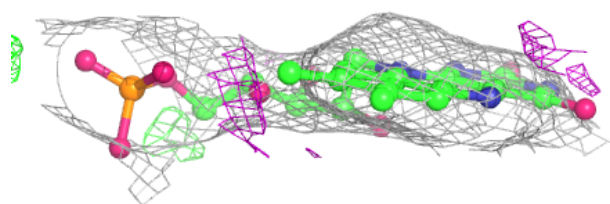
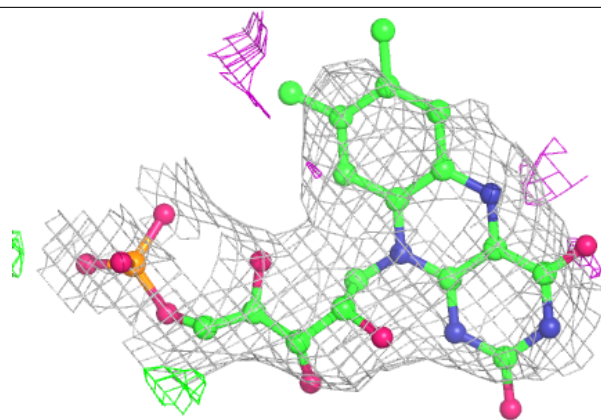
**Electron density around NAP G 2102:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

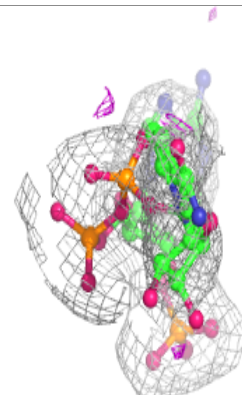
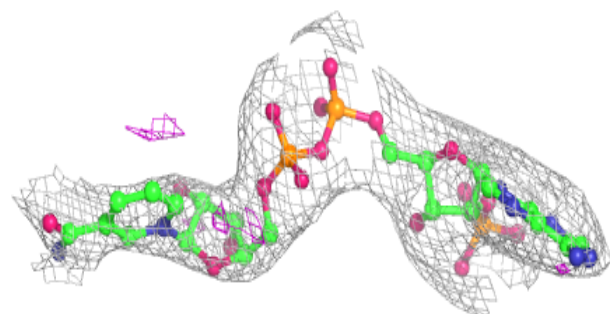
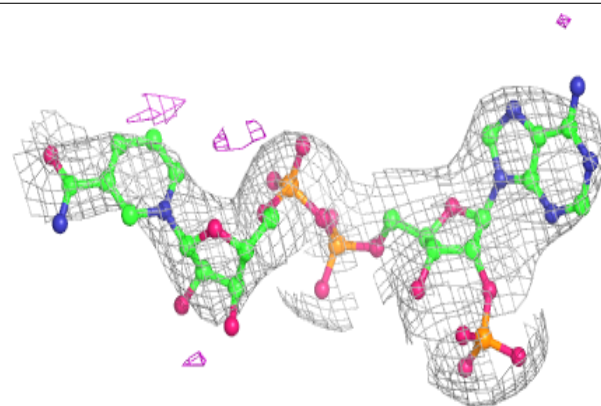


Electron density around FMN K 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

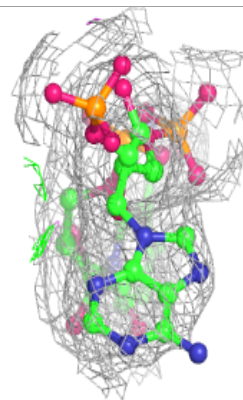
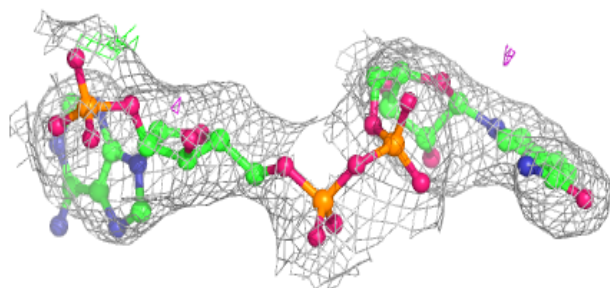
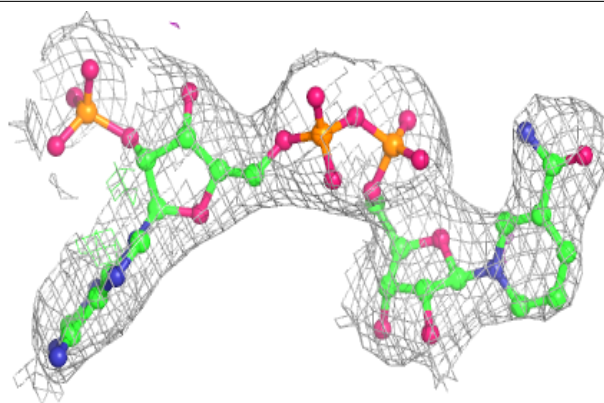
**Electron density around NAP L 2102:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

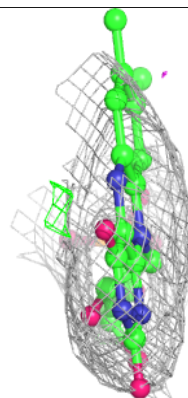
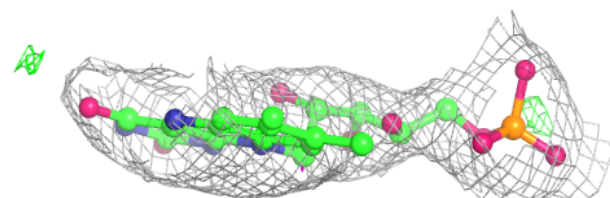
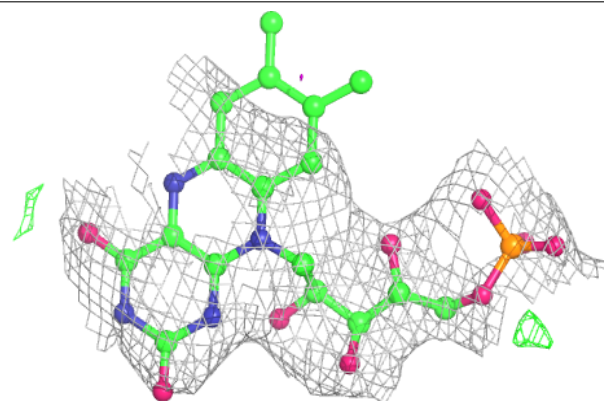


Electron density around NAP E 1901:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

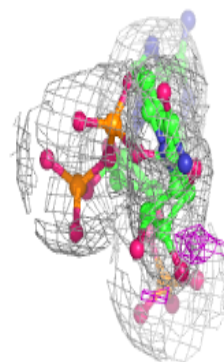
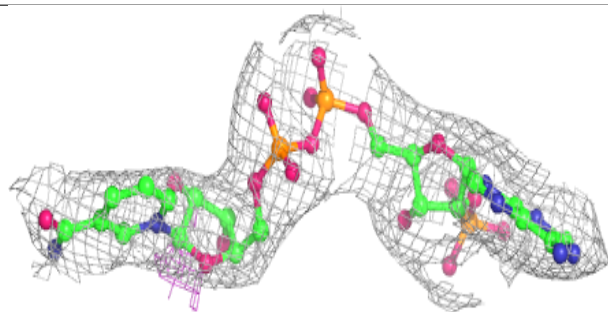
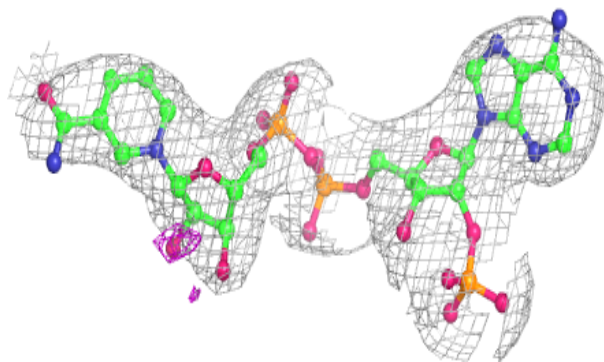
**Electron density around FMN J 2101:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

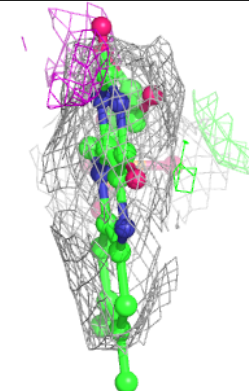
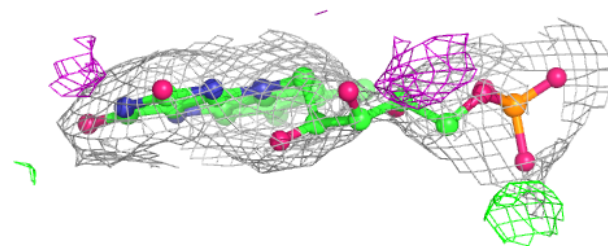
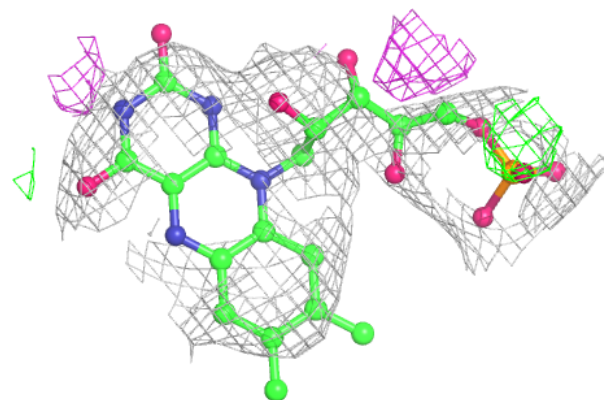


Electron density around NAP I 2102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

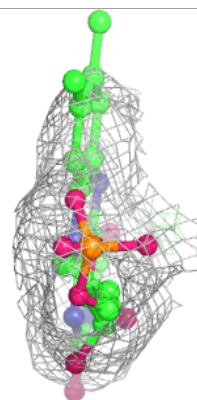
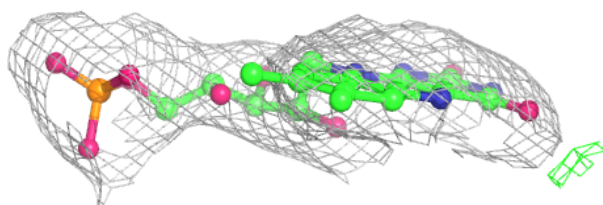
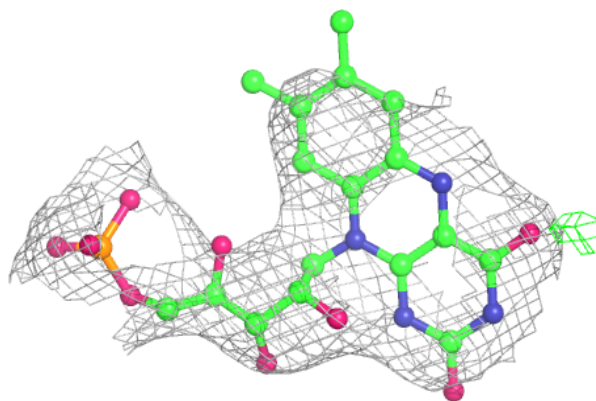
**Electron density around FMN G 2101:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

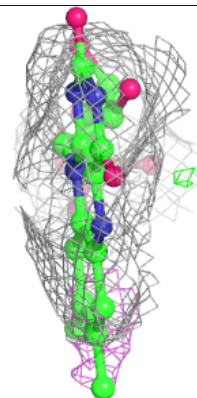
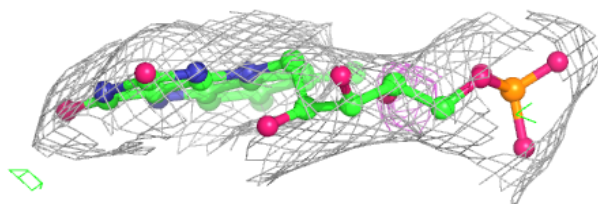
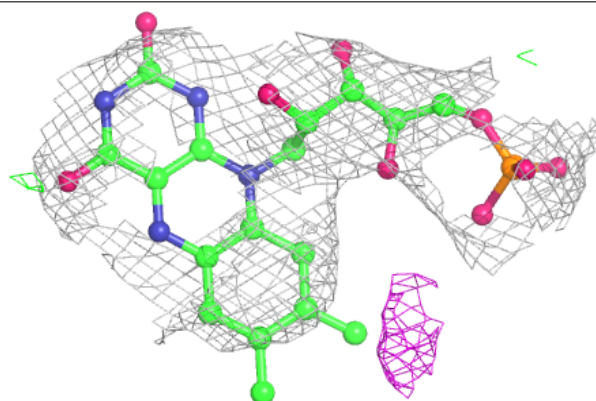


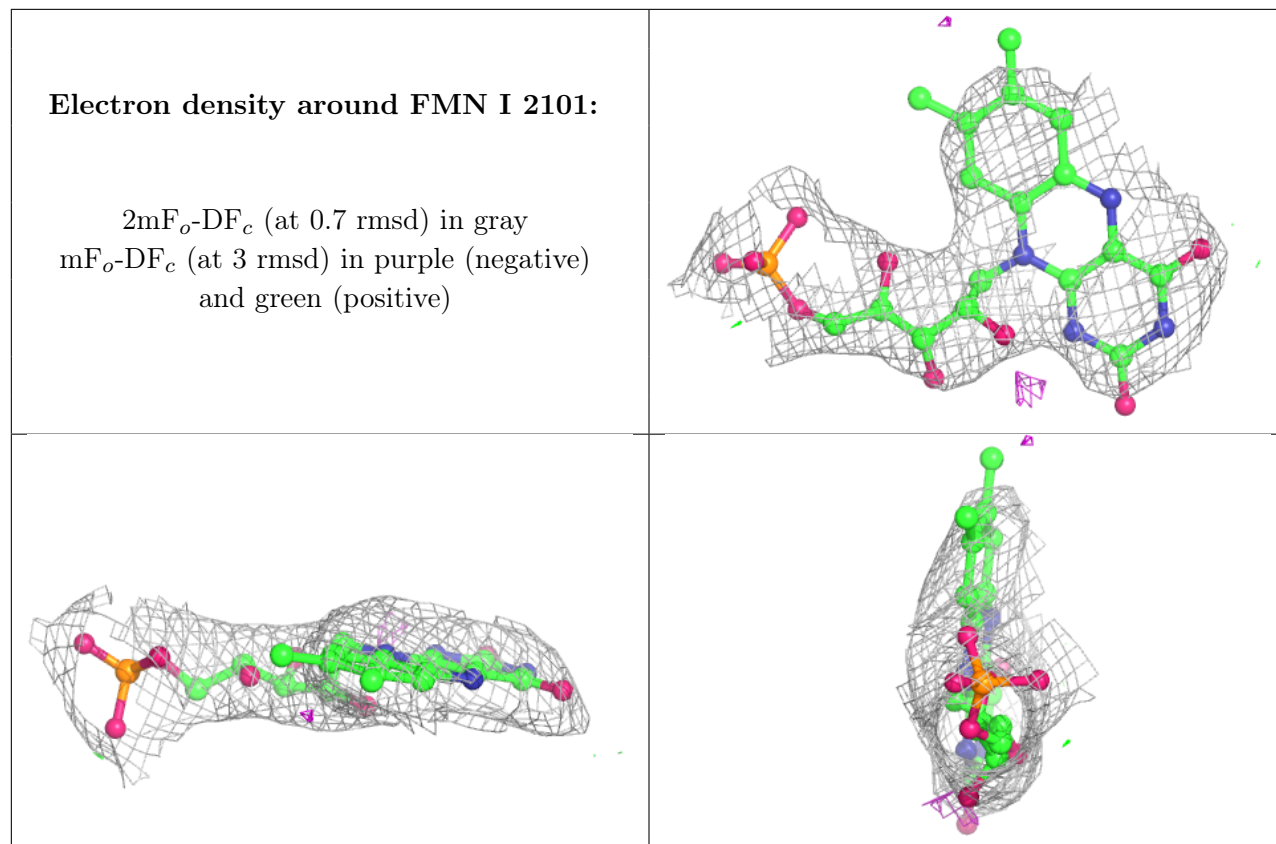
Electron density around FMN H 2101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around FMN L 2101:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.