



# Full wwPDB X-ray Structure Validation Report ⓘ

May 17, 2020 – 11:24 am BST

PDB ID : 4V58  
Title : Crystal structure of fatty acid synthase 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](mailto: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.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
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) : 2.11

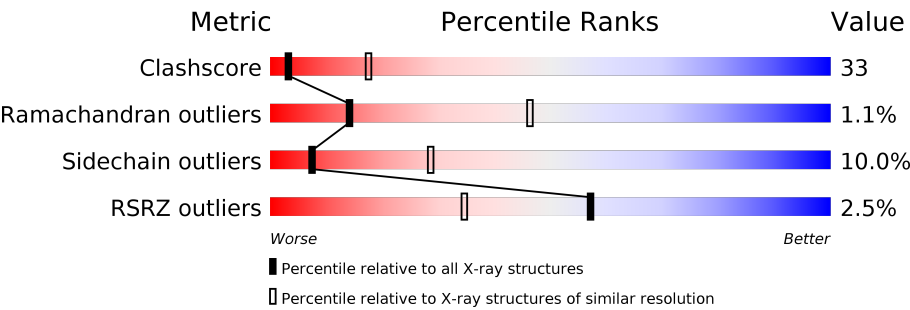
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.10 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.



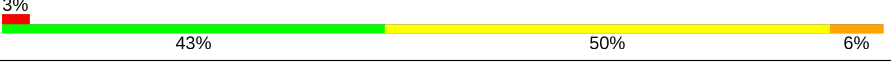
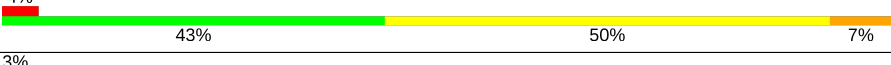
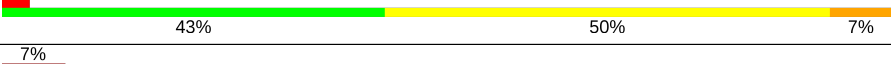
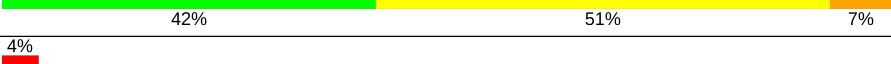
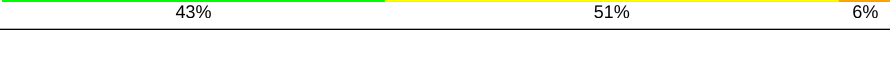
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	<div><div>40%33%5%22%</div></div>
1	B	1878	<div><div>42%32%.22%</div></div>
1	C	1878	<div><div>41%32%.22%</div></div>
1	D	1878	<div><div>41%33%5%22%</div></div>
1	E	1878	<div><div>40%33%.22%</div></div>
1	F	1878	<div><div>41%32%.22%</div></div>
2	G	2060	<div><div>2%44%49%6%</div></div>

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

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 166671 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.

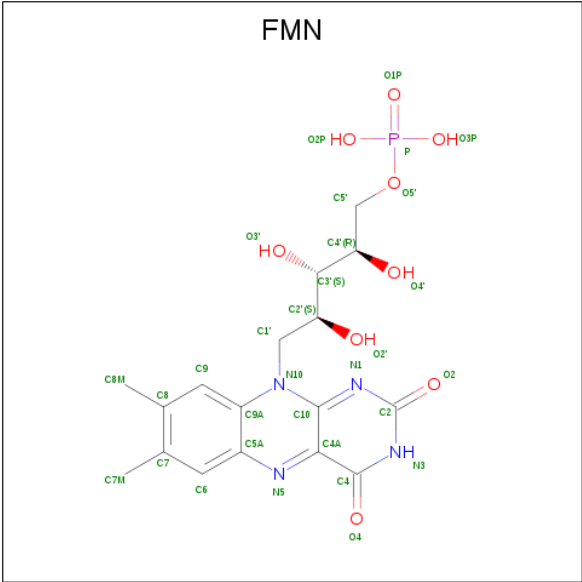
- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

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

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

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

- Molecule 3 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C<sub>17</sub>H<sub>21</sub>N<sub>4</sub>O<sub>9</sub>P).



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

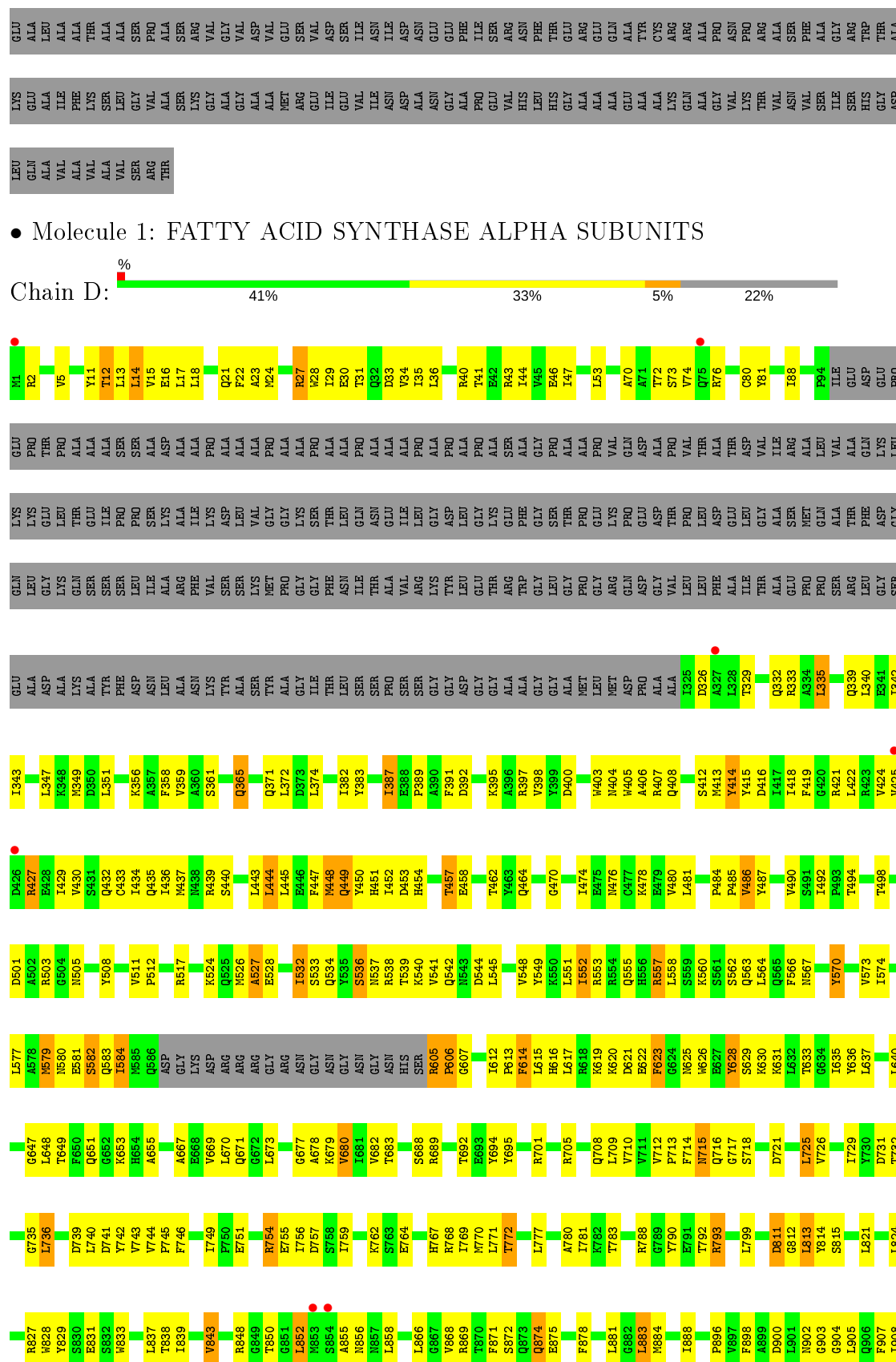




F1209	K1113	S1021	V943	V643	E751	K653	ASP	T494	I422	E341	LEU	PHE	GLN	ASP	H1
K1211	E1117	M1028	E946	R648	R754	H654	GLY	T498	R423	I342	GLY	ASP	LYS	GLY	R2
Y1212	I1129	M1028	D947	R648	R754	A655	LYS	T499	V425	I343	SER	GLY	LEU	GLY	V5
V1213	F1130	M1030	H948	T550	E755	G663	ARG	I500	D426	L347	ALA	LEU	LYS	PRO	Y11
H1214	E1131	M1031	E949	G851	D757	V669	ARG	D501	R427	K348	ALA	GLY	THR	THR	T12
L1216	T1135	M1032	A950	L852	S758	V669	GLY	N505	E428	M349	LYS	LYS	LEU	ALA	T14
S1216	T1135	M1032	L951	R853	S759	L673	ARG	N505	I429	D350	LYS	GLN	THR	ALA	L13
E1217	H1037	N1037	Y952	S854	K762	G677	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	V15
V1218	H1038	N1038	R953	S854	K762	A678	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E16
G1219	H1039	N1039	R953	S854	K762	G677	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	L17
N1220	H1040	N1040	R953	S854	K762	V680	ASN	Y508	C433	L351	THR	SER	PRO	ALA	L18
G1223	H1041	N1041	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	Q21
S1224	H1042	N1042	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	F22
V1226	H1043	N1043	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	A23
G1227	H1044	N1044	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	M24
G1228	H1045	N1045	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	R27
T1229	H1046	N1046	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	W28
A1230	H1047	N1047	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	I29
A1231	H1048	N1048	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E30
L1232	H1049	N1049	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	T31
R1233	H1050	N1050	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	G32
G1234	H1051	N1051	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	D33
M1235	H1052	N1052	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	V34
T1236	H1053	N1053	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	L36
K1237	H1054	N1054	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	R40
D1238	H1055	N1055	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	T41
L1241	H1056	N1056	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E42
D1242	H1057	N1057	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	R43
K1243	H1058	N1058	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	I44
L1250	H1059	N1059	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	V45
Q1251	H1060	N1060	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E46
F1254	H1061	N1061	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	I47
T1257	H1062	N1062	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	L53
M1258	H1063	N1063	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	T60
M1264	H1064	N1064	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	L61
I1267	H1065	N1065	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	Y65
S1268	H1066	N1066	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	T72
S1269	H1067	N1067	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	S73
T1270	H1068	N1068	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	V74
I1273	H1069	N1069	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	G75
K1274	H1070	N1070	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	R76
T1275	H1071	N1071	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	C80
P1276	H1072	N1072	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	I88
V1277	H1073	N1073	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	E93
G1278	H1074	N1074	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	P94
A1279	H1075	N1075	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	I95
C1280	H1076	N1076	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E93
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	H1119	N1119	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	P94
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	H1121	N1121	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	E93
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	H1124	N1124	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	E93
	H1125	N1125	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	P94
	H1126	N1126	R953	S854	K762	L681	ASN	Y508	C433	L351	THR	SER	PRO	ALA	I95
	H1127	N1127	R953	S854	K762	L681	ASN	Y508	Q432	R351	THR	SER	PRO	ALA	E9

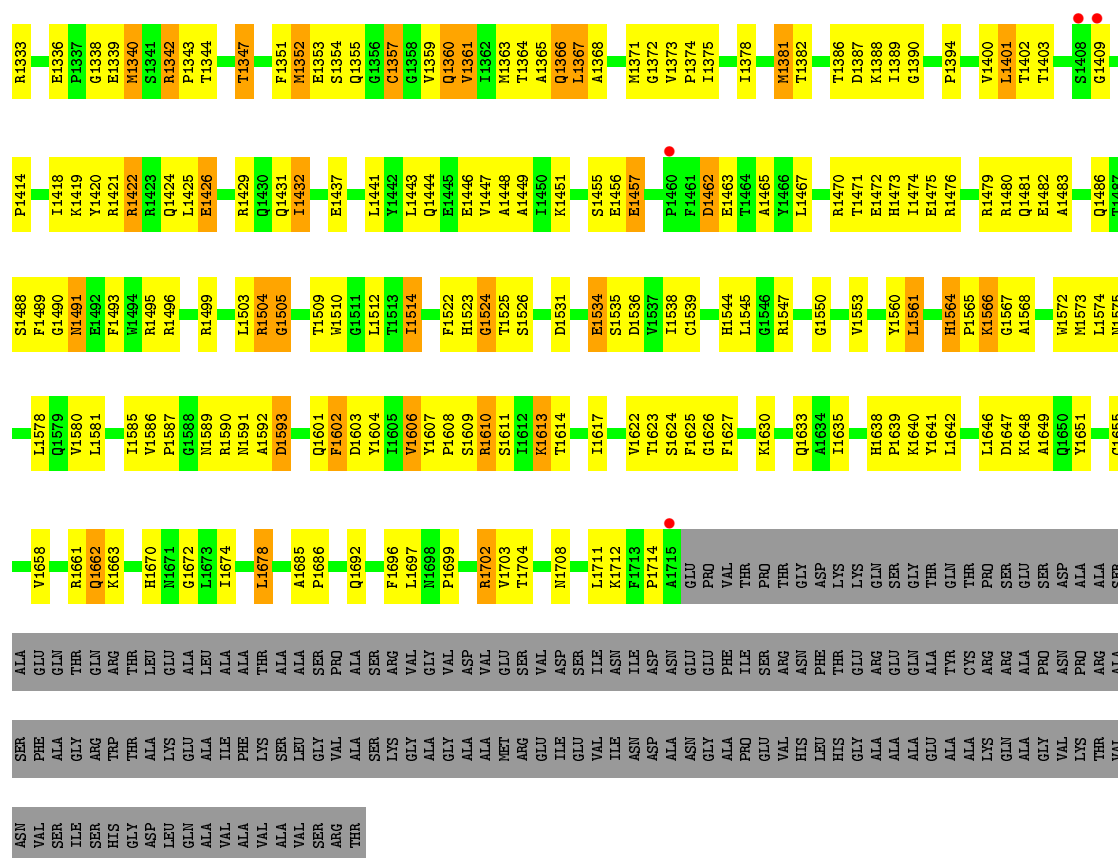


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A1685	N1591	M1510	E1437	M1352	T1270	D1184	Q1095	A1008	S926	V843	R754	Q671	GLY
P1686	D1593	T1512	L1441	Q1354	T1275	T1187	L1096	R1011	R929	R648	I756	L672	ARG
Y1687	Q1601	L1614	L1443	Q1355	P1276	L1188	Q1098	M1014	Q930	R648	D757	G673	ASN
Q1692	Q1602	F1522	Q1444	G1357	V1277	A1197	V1100	E1015	I933	G851	S758	G677	GLY
F1696	D1603	H1523	E1445	G1358	G1278	L1198	L1106	G1018	V942	L852	I759	A678	GLY
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A1715	H1544	E1463	E1463	T1378	D1308	G1223	L1141	K1045	N962	L881	I783	R705	L615
GLU	L1545	T1464	T1464	M1381	D1309	S1224	L1142	P1046	L963	G882	R788	Q708	R616
PRO	G1546	A1465	A1465	T1382	F1310	G1225	T1147	Y1047	K964	L883	G789	L709	L617
VAL	R1547	Y1466	Y1466	T1386	Q1311	V1226	L1148	M1050	Y965	M884	Y790	V710	K620
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LYS	L1554	H1473	H1473	G1390	Y1316	R1232	L1154	E1057	L970	Q893	S802	S718	N625
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LYS	L1561	R1475	R1475	V1400	M1321	M1235	F1156	G1057	Q983	V897	N804	D721	R627
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SER	H1564	R1479	R1479	T1402	T1324	Q1237	L1158	K1067	N987	P899	G812	L725	S629
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ALA	M1575	Q1490	Q1490	T1402	T1324	D1238	L1159	Y1068	V996	F907	L736	L640	V574
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SER	L1578	E1492	E1492	T1402	T1324	D1238	L1159	Y1068	T997	P909	D827	Q647	A576
ALA	Q1662	F1493	F1493	T1402	T1324	D1238	L1159	Y1068	G998	L911	L740	L648	L577
ALA	K1663	W1494	W1494	T1402	T1324	D1238	L1159	Y1068	L999	D910	D741	L648	L577
GLU	F1579	Q1423	Q1423	T1402	T1324	D1238	L1159	Y1068	A1000	N915	Q651	Q651	I584
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THR	F1669	H1670	H1670	E1426	P1342	M1288	P1176	F1086	I1002	E831	V744	V744	K653
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ARG	G1672	Q1429	Q1429	E1426	P1342	M1288	P1176	F1086	P1004	R919	R694	R694	ASP
THR	L1673	R1504	R1504	E1426	P1342	M1288	P1176	F1086	W1005	K920	A655	A655	GLY
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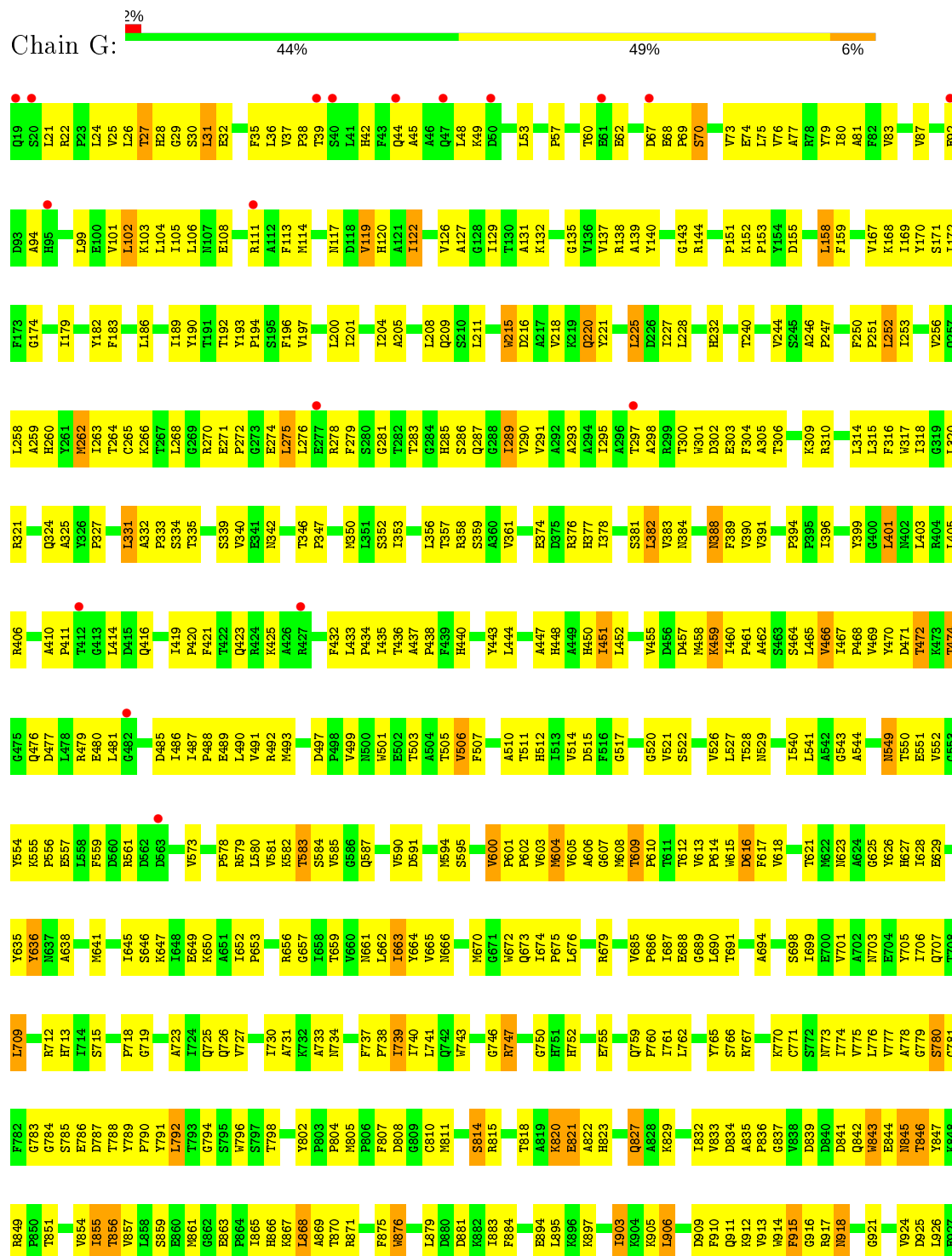




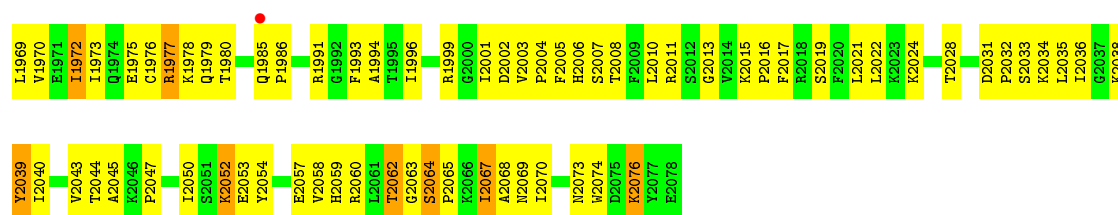


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THR	LYS	VAL
THR	LEU	ALA
ALA	LEU	ALA
SER	SER	SER
PRO	VAL	ARG
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SER	SER	
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VAL	GLY	
GLY	ALA	
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PHE	LEU	
THR	HIS	
GLU	GLY	
ARG	ALA	
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TYR	ALA	
CYS	ALA	
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ARG	GLN	
ALA	VAL	
PRO	ALA	
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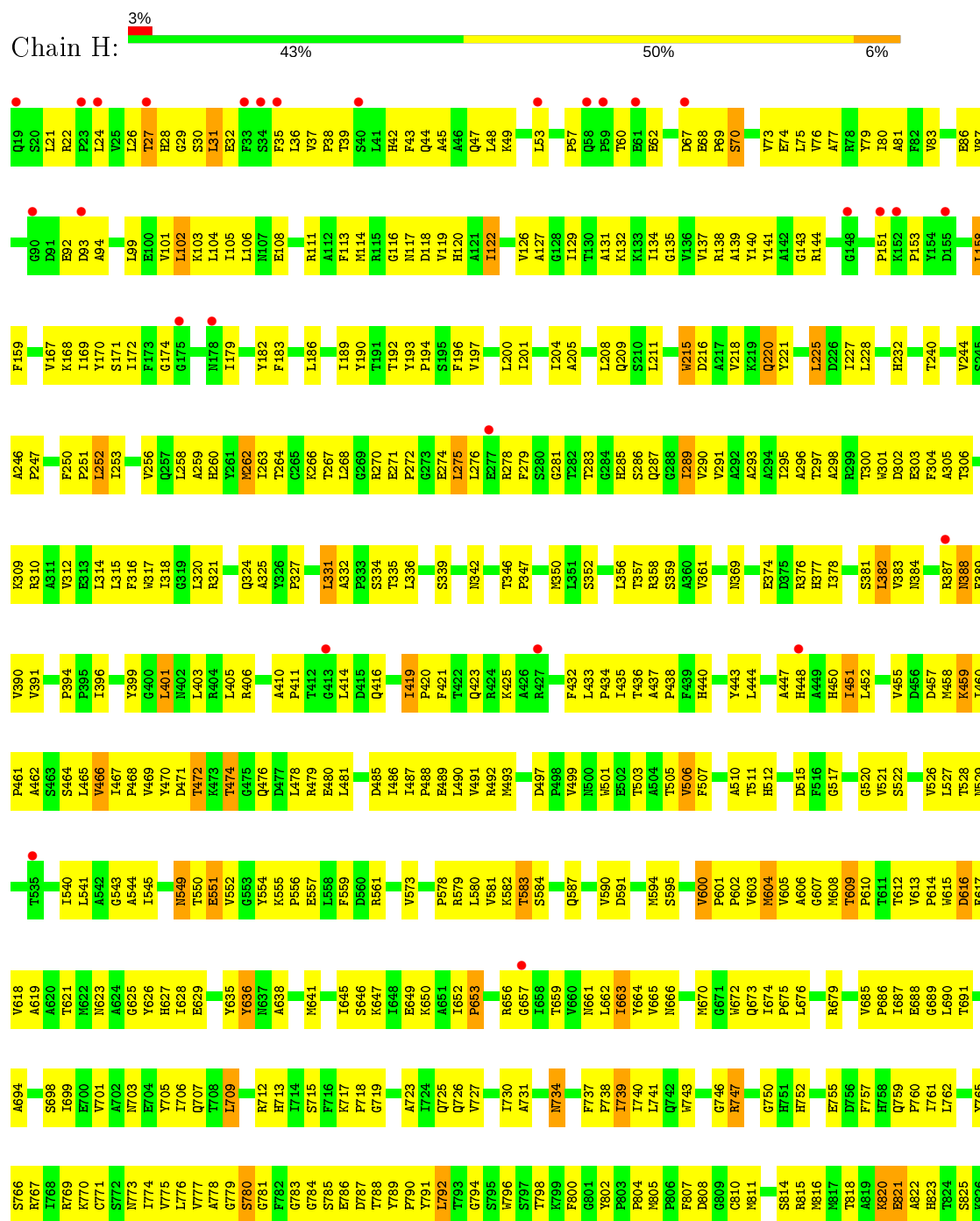
• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



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V1904	E1840	K1758	I1659	M1579	V1507	Y1435	P1360	R1284	P1209	D1138	Q1068	Y1000	M929
E1905	Y1841		I1842		I1510	R1436	P1361	R1284	D1210	A1139	G1069	P1001	T930
N1906	S1842	Q1759	G1583	V1582	G1511	V1437	I1361	K1286	D1211	M1140	P1070	E1002	Y931
I1907	L1843	N1760	R1660	S1584		V1438	P1362	K1286	P1212	K1141	V1071	A1003	A932
V1910	L1844	Q1759	G1661	S1584	L1514	Y1439	P1363	E1287	T1215	I1142	A1072	S1004	E933
	V1845	Y1761	R1662	G1585	L1514	T1440	R1364	F1288	V1216	S1143	K1073	T1005	V934
V1913	A1846	M1762	K1663	D1586	L1515	D1441	K1365	Y1289	I1216		K1074	Q1006	V935
L1914	L1847	S1763	I1664	Y1587	E1516	Y1442	I1366	Y1290	S1217		Y1075	L1007	E936
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	V1849	A1669	A1569	P1589	P1518	T1446	G1368	V1292	V1219	M1153	K1077	M1009	M938
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N1919	M1851	T1768			K1520	Q1447	L1370	F1294		P1155	D1080	Q1011	V939
	P1852	V1769		S1593	E1521		L1371		S1223	D1156		D1012	L941
V1922	I1853	M1770	D1675	R1594	I1522	E1451	K1372	V1299	Q1224	V1157	I1083	V1013	M942
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V1928	V1860	K1776	E1684	A1600	S1527	L1456		P1304	V1229	I1164	D1088	L1018	R949
A1929	F1861	T1777		M1601	V1528	H1457	Y1380	L1305	K1230		G1089	L1019	A950
I1930	Y1862	K1779	E1685	L1602	D1529	T1460	P1388	V1308	I1234	M1167	I1090	Q1020	I951
G1931	R1863	F1781	G1604	G1604	E1531	P1461		F1309	K1235	S1168	H091	Q1021	L955
D1932	G1864		P1605	P1605	A1532	Q1462	V1391		L1236	Y1169	D1093	R1022	K956
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A1934	T1866		T1690	M1610	E1534	L1464	D1393	E1314	G1238	M1171	I1095	P1027	L958
I1935	M1867	G1798	A1691	Y1611	S1535	A1465	P1394	I1315	D1239	H1173	K1096	V1028	T959
L1936	Q1868	L1799	G1692	G1692	H1536	Y1466	L1395	V1316	N1240	K1097	F1087	P1029	G960
D1937	V1869	L1800	V1693		G1537	L1467	D1396	M1317	M175	A1174	L1098	F1030	D961
T1938	A1870	F1694		V1616	M1538	R1468	T1397	A1318	T1245		L1099	P1031	P962
L1939	S1871	A1802		P1617	P1539	S1469	T1398		L1246	T1178	R1100	Q1032	I963
	E1871	Q1700		S1618	V1540	K1470	A1399	F1324	E1247	E1179	Y1103	A1033	R964
V1942	R1873		Q1804	L1619	I1541	E1471	Q1400	V1325	R1248	V1180	L1034	K1034	R965
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N1944	E1875	T1806	D1707	E1621	Y1543		L1402	M1330	R1250	Y1182	G1105	E1036	E967
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K1950	E1814			N1628	Q1553	D1480	G1410		P1288			K1044	P977
I1951	Y1881		R1721	I1629	P1554	I1481	K1411	G1339	T1260	M1190	I1112	R1044	
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M1960	Q1828		M1741	M1639	L1563	V1496	K1420	A1349	Y1271	R1200	E1126	Y1057	P989
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R1966	L1900		F1749	I1649	P1574	Y1504	M1427	K1355	M1278	L1133		C1065	L997
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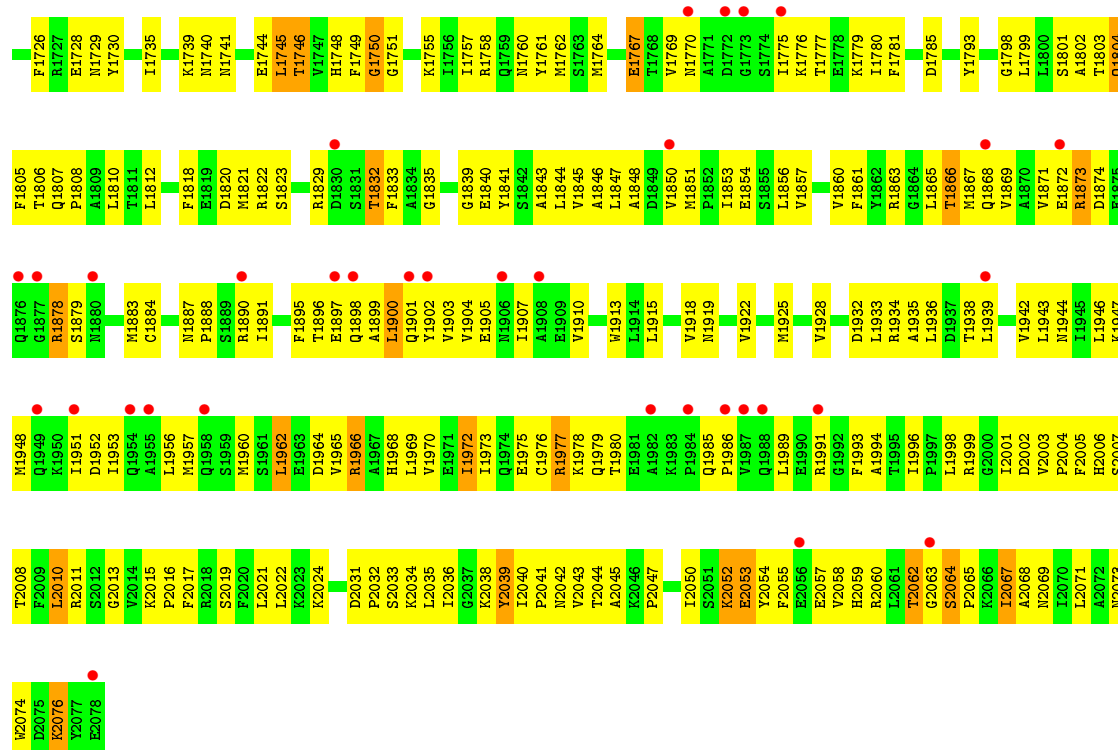
● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



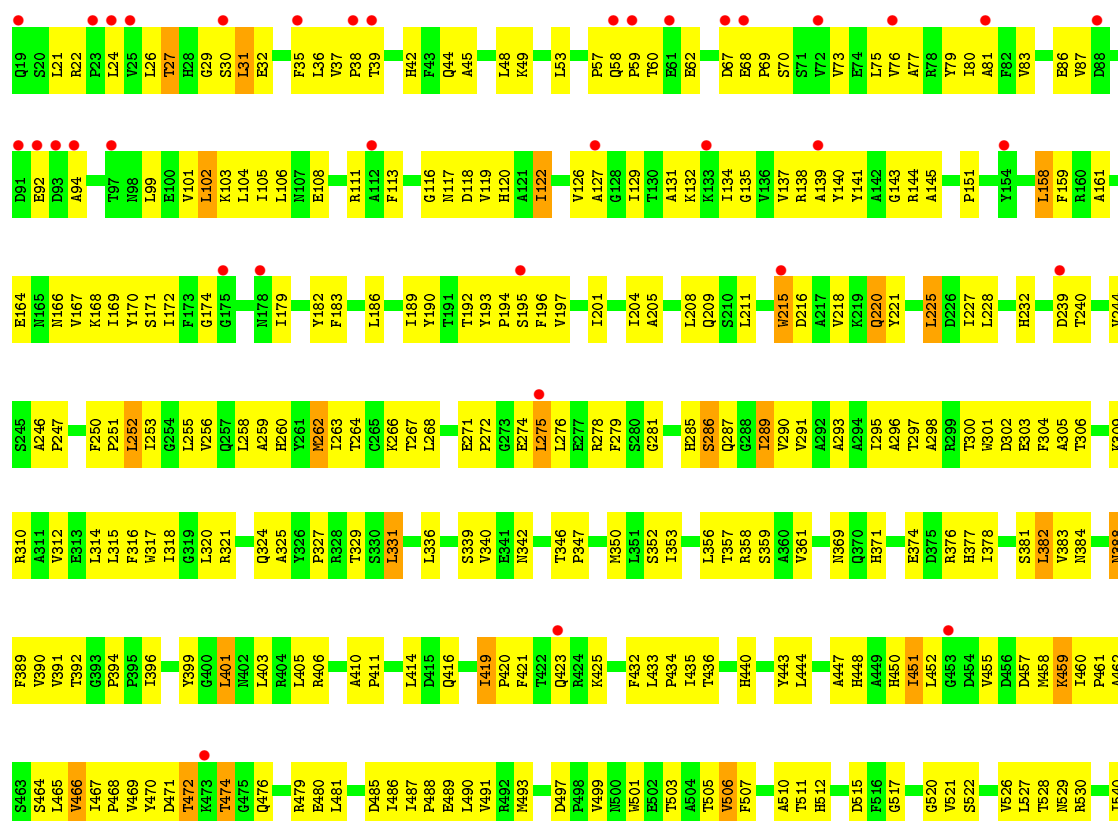
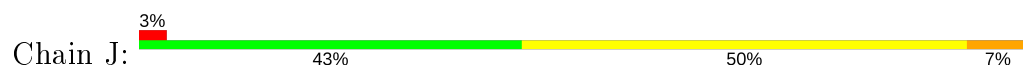
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R1839	E1522	E1522	Y1452	Y1452	Y1452	L1370	L1370	E1293	I1217		K1074	Q1006	E933	E860
Y1841	I1523	I1523	P1453	P1453	P1453	L1371	L1371	F1294	S1218	L1146	K1074	Q1007	E934	M861
S1842	Y1524	Y1524	M1454	M1454	M1454	K1372	K1372	K1297	V1219		S1076	L1007	W936	E862
A1843	V1525	V1525	M1454	M1454	M1454	L1373	L1373	K1297	R1220	M1153	K1077	I1008	H936	E863
L1844	A1526	A1526	Q1455	Q1455	Q1455	V1374	V1374	E1298	E1298	L1154	A1010	H936	H936	P864
V1845	S1527	S1527	L1456	L1456	L1456	H1375	H1375	V1299	Q1224	P1155	Q1011	N938	R937	I865
A1846	Y1528	Y1528	H1457	H1457	H1457			P1300	Q1224	D1156	D1012	W939	K867	H866
L1847	D1529	D1529	T1460	T1460	T1460	Y1380	Y1380	F1301	S1225	V1157	D1013	E940	L868	K867
T1848	E1531	E1531	Q1461	Q1461	Q1461	R1381	R1381	L1305	K1227	D1158	Q1014	H1015	L941	A869
D1849	G1532	G1532	D1462	D1462	D1462	M1382	M1382	L1305	L1228	S1159	K1084	F1016	N942	T870
M1850	A1533	A1533	L1463	L1463	L1463			V1308	V1229	F1160	D1088	F1016	Y943	R871
M1851	E1534	E1534	L1464	L1464	L1464	P1388	P1388	F1309	K1230	M1161	G1089	L1017	W944	G872
P1852	G1537	G1537	A1465	A1465	A1465	V1391	V1391	R1313	T1234		G1089	L1018	K948	F875
E1853	M1538	M1538	Y1466	Y1466	Y1466	G1392	G1392	E1314	T1234	Y1169	H1091	L1019	R949	W876
S1855	P1539	P1539	L1467	L1467	L1467	D1393	D1393	E1314	K1235	M1170	N1092	C1020	R949	W876
L1856	W1540	W1540	R1468	R1468	R1468	V1394	V1394	L1315	L1236	S1170	D1093	Q1021	K877	K877
V1857	I1541	I1541	S1469	S1469	S1469	L1395	L1395	V1316	V1237	W1171	H1094	R1022	I951	E878
	E1542	E1542	K1470	K1470	K1470	D1396	D1396	G1238	G1238	R1172	I1095	P1026	D952	L879
K1776	M1610	M1610	R1471	R1471	R1471	T1397	T1397	A1318	D1239	H1173	K1096	K1026	P953	D880
K1776	Y1611	Y1611	Y1472	Y1472	Y1472	T1397	T1397	A1318	D1239	A1174	F1097	P1027	D881	D881
T1777			L1475	L1475	L1475	T1399	T1399	F1324	M1240	H1174	K1097	P1028	S954	
E1776	M1616	M1616	D1476	D1476	D1476	Q1400	Q1400	Y1325	T1245	M1175	L1098	F1030	L955	F884
K1779	R1617	R1617	D1477	D1477	D1477	L1401	L1401	T1246	T1246		L1099	F1030	K957	F884
P1780	S1618	S1618	Y1478	Y1478	Y1478	N1402	N1402	T1246	L1246	E1179	R1100	P1032	R958	R888
F1781	L1619	L1619	H1479	H1479	H1479	A1403	A1403	M1330	F1247	T1178	R1100	P1032	T959	R888
	V1620	V1620	E1480	E1480	E1480	L1403	L1403	E1248	E1248	E1179	R1100	P1032	T959	R888
D1785	T1622	T1622	Q1478	Q1478	Q1478	V1404	V1404	G1249	G1249	E1181	Y1103	A1033	G960	K890
	W1623	W1623	E1479	E1479	E1479	I1405	I1405	F1335	F1335	F1182	D1104	A1033	G960	K890
S1795	E1552	E1552	D1480	D1480	D1480	I1405	I1405	F1335	F1335	V1182	D1104	A1033	G960	K890
P1796	Q1553	Q1553								Q1183	G1105	D1035	F962	R891
M1867											K1106	E1036	I963	E894



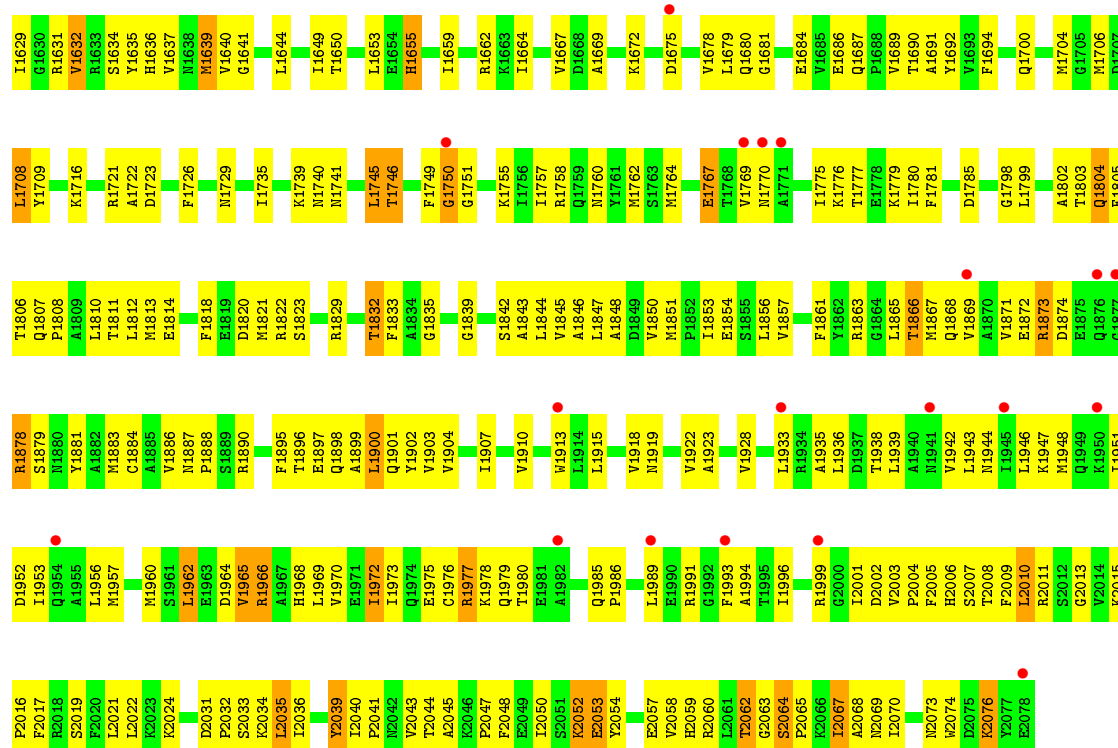




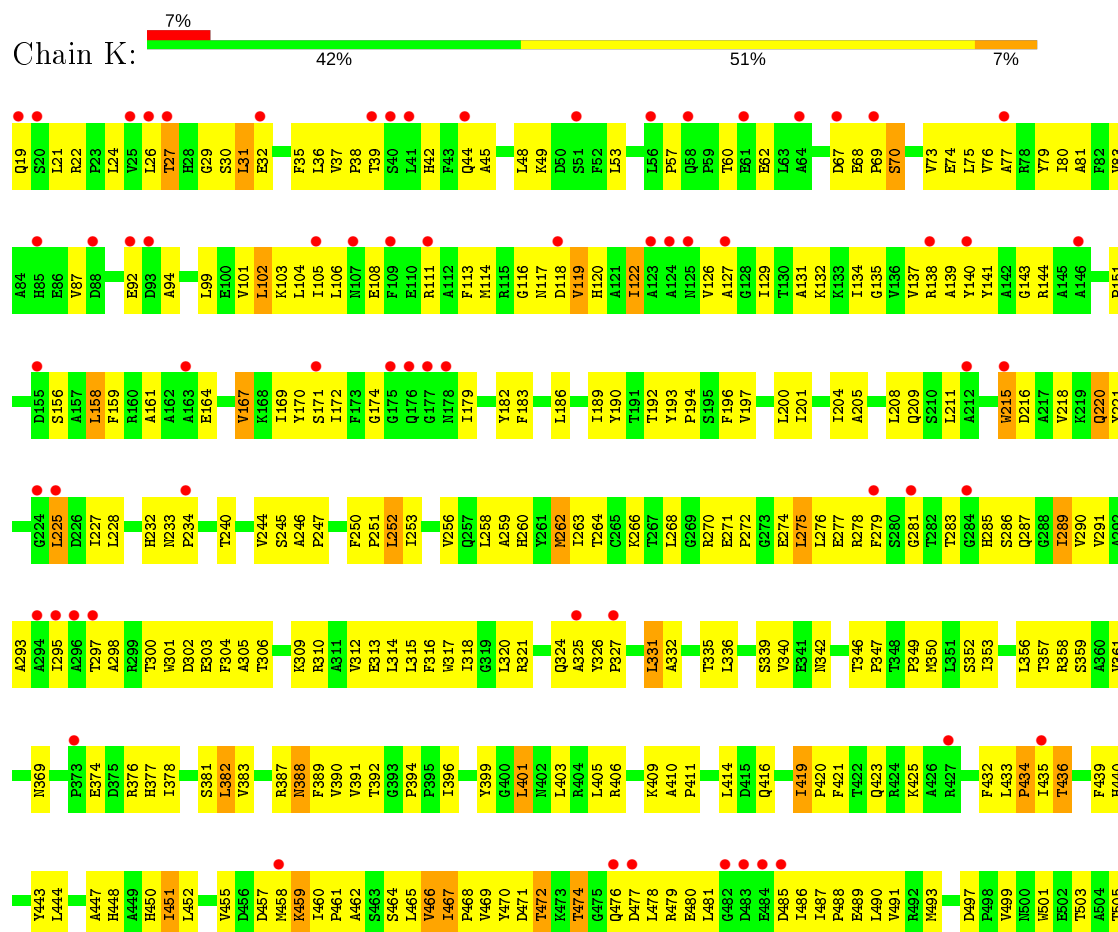
### • Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



Q1553	D1476	H1402	A1334	P1258	T1189	P1111	W1048	E970	V833	R769	M622	L541
P1554	D1477	A1403	F1335	L1259	N1190	V1112	Q1049	I903	D834	K770	M623	A542
V1555	Q1478	V1404	P1336	T1260	P1191	I1113	P1049	R904	A835	C771	A624	G543
N1556	L1479	L1405	L1338	L1192	L1192	F1261	S1050	L979	P836	S772	G625	A544
F1557	D1480	N1406	G1339	K1193	K1193	F1116	D1051	L980	G837	N773	Y626	I545
E1558	L1481	L1407	K1340	R1262	L1194	F1116	D1052	L985	V838	I774	H627	
N1559	E1482	S1409	D1341	Y1265	L1195	L1195	I1053	D885	D839	V775	I628	N549
P1560	L1483	G1410	F1342	R1266	F1196	L1196	E1054	P910	D840	I776	E629	T550
I1561		K1411	F1343	P1267	A1197	L1197	A1055	Q911	D841	E704	E551	E551
P1562	T1487	N1412	A1344	E1268	P1198	K1122	Y1056	K912	W842	Y705	Y635	V552
L1563		V1413	P1345	A1269	T1199	A1123	P1057	P989	W843	G779	Y636	G553
	L1492	M1446	M1346	G1270	R1200	T1124	Y990	Y990	E844	S780	M637	Y554
K1566		C1416	D1347	Y1271	G1201	T1125	V1061	P991	N845	T708	A638	K555
T1567	V1496	G1417	F1348	M1278	M1202	E1126	G1062	G916	T846	L709	E557	P556
P1568	R1497	T1418	F1349	M1284	M1209	E1127	A1063	R917	R847	M641	E557	E557
F1498	L1498	L1350	A1349	I1285	D1210	E1127	R1064	N918	K848	R712	L588	L588
P1574	K1499	V1351	P1351	K1286	D1211	L1129	P1070	L997	R849	H713	F559	F559
	N1500	V1352	F1352	E1276	I1206	I1130	C1065	A998	R850	E786	I645	D560
E1578		G1353	G1353	M1278	T1207	I1131	L1067	A999	T851	D787	S646	R561
N1579	Y1504	M1427	K1354	M1284	N1208	G1132	Q1068	P1001	T851	D788	K647	
V1583	S1505	F1433	R1355	I1284	P1209	L1133	Q1069	E1002	V854	Y789	K648	V573
S1584	S1506	L1434	A1356	I1285	D1211	R1137	P1071	L926	T856	P790	K650	P578
G1585	V1507	Y1435	K1359	E1287	P1212	E1138	A1072	D928	W857	L792	A651	R579
G1586	L1510	R1436	P1360	F1288	T1215	A1139	A1073	M929	L858	T793	A651	L580
Y1587	G1511	G1437	I1361	Y1289	V1216	N1140	K1074	L1007	S859	G794	P653	V581
L1515	L1515	Y1439	P1363	I1290	V1216	K1141	Y1075	I1008	E860	S795	R656	K582
E1516	L1516	T1440	P1363	R1291	V1217	I1142	S1076	A932	N861	A1010	G657	T583
L1517	L1517	D1441	K1365	Y1292	S1218	S1143	K1077	E933	E862	S797	R657	S584
P1589		P1442	Y1293	V1219	V1219	L1146	D1080	Y935	R664	K733	T659	Q637
	S1593	E1443	F1294	R1220	R1220	L1146	D1081	R936	I865	F800	V660	
R1594	T1519	E1444	K1297	S1223	S1223	N1153	P1082	R937	H666	G801	N661	V590
V1595	K1620	N1444	E1298	E1223	E1223	L1154	I1083	N938	L868	Y802	L662	D591
F1596	E1521	T1445	P1369	S1225	S1225	P1155	K1084	V939	P803	F737	I663	
S1597	I1522	F1446	V1299	Q1226	Q1226	D1156	D1085	E940	A869	I739	Y664	N594
S1598	L1523	Q1447	P1300	K1227	K1227	V1157	I1086	L941	T870	M805	V665	S595
	Q1524	K1372	F1301	L1228	L1228	D1158	L1087	M942	R871	P806	N666	
L1602	V1525	L1373		V1229	V1229	S1159	D1088	Y943	G872	F807	P667	V600
P1603	A1526	V1374	L1305	K1230	K1230	F1160	G1089	Q1031		D808	W743	P601
G1604	T1605	H1375	F1308	I1234	I1234	M1161	I1090	R1022	R875	G809	G746	P602
I1606	D1528	L1376	V1308	L1235	L1235	I1164	N1092	R949	W876	C810	R747	V603
T1607	Y1530	Y1380	R1313	L1236	L1236	L1169	D1093	R950	L879	G671	W672	M604
H1608	E1531		E1314	V1237	V1237	Y1178	H1094	I951	D880	Q673	W605	V605
G1609	A1532	V1383	F1315	G1238	G1238	S1170	I1095	L955	D881	G750	L674	A606
M1610	G1533	P1384	V1316	D1239	D1239	W1171	K1096	K956	K882	H751	P675	G607
	E1534		V1317	N1240	N1240	H1172	F1097	K957	H883	H752	L676	M608
H1636	H1535	P1388	A1318	Q1319	Q1319	H1173	L1098	L958	F884	E755	R679	T609
	G1537	V1391	Q1319	T1245	T1245	A1174	L1099	A1033				P610
R1617	N1538	G1392	D1323	L1246	L1246	M1175	R1100	L1034	R888	Q759	V685	T612
S1618	P1539	D1393	F1247	F1247	F1247	Y1103	D1035	D1035	S889	K820	P686	V613
L1619	V1540	V1394	E1248	G1249	G1249	E1178	E1036	E1036	S890	E821	P686	V613
E1621	L1541	L1395	E1248	E1249	E1249	D1104	E1036	E1036	K890	I761	I687	V614
T1622	V1542	D1396	R1250	R1250	R1250	G1105	G1039	G1039	R891	L762	E688	W615
M1623	Y1543	K1470	T1251	A1252	A1252	F1181	Y1040	Y1040	E894	L763	G689	D616
	L1544	E1471	T1397	G1329	G1329	E1107	W1041	W1041	E894	M764	P617	V617
E1626		W1472	T1398	M1330	M1330	R1186	E1108	V966	L895	Y765	T691	V618
N1627	I1551	Q1400	V1256	V1256	V1256	E1108	E1109	E967	K396	S766	I692	A619
	E1552	L1475	E1333	V1257	V1257	Q1188	V1110	R969	R898	I768	G693	A620



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K2015	Q1954	M1813	K1716	R1631	M1556	E1482	S1409
P2016	A1955	E1814	R1721	V1632	F1557	L1483	G1410
F2017	L1956	F1818	A1722	R1633	M1558	T1487	K1411
R2018	M1957	D1819	F1726	S1634	M1559	L1488	M1412
S2019	M1960	D1820	F1726	H1635	P1560	V1489	V1413
F2020	S1961	M1821	K1739	H1636	P1562	L1492	C1416
L2021	L1962	S1822	M1740	M1637	L1563	G1417	G1417
L2022	E1963	Q1828	P1742	M1639	K1566	T1418	T1418
K2023	D1964	R1829	M1745	G1641	T1567	K1499	K1421
K2024	V1965	D1830	T1746	P1645	P1568	M1500	R1424
T2028	A1966	S1831	F1749	M1646	R1572	Y1504	K1424
T2029	E1967	T1832	G1751	D1647	A1573	S1505	P1426
I2030	H1968	F1833	K1755	I1649	A1575	V1507	M1427
D2031	L1969	G1835	K1755	T1650	M1579	I1510	L1434
P2032	V1970	G1839	R1758	L1653	V1583	G1511	Y1435
S2033	E1971	E1840	Q1759	E1654	S1584	L1514	R1436
K2034	I1972	S1842	M1760	H1655	G1585	L1515	G1437
L2035	I1973	L1844	Y1761	I1659	D1586	E1516	V1438
L2036	I1974	V1845	M1762	R1662	Y1587	L1517	Y1439
G2037	E1975	A1846	S1763	R1663	M1588	F1518	D1441
K2038	C1976	L1847	M1763	K1662	P1589	T1519	Y1442
Y2039	R1977	L1848	F1766	R1663	I1590	K1520	Y1445
I2040	K1978	A1849	F1766	I1664	H1591	E1521	T1445
P2041	Q1979	D1849	E1767	V1667	V1592	I1522	E1451
H2042	T1980	M1850	T1768	R1668	S1593	I1523	E1452
V2043	E1981	M1851	T1768	R1668	R1594	Q1524	V1452
T2044	A1982	M1852	V1769	A1669	V1595	V1525	P1453
A2045	K1983	E1853	M1770	K1672	F1596	A1526	M1454
K2046	P1984	S1855	I1775	D1675	L1602	S1527	Q1455
P2047	Q1985	L1856	K1776	D1675	P1603	V1528	L1456
P2047	P1986	V1857	T1777	D1675	G1604	D1529	H1457
I2050	V1987	F1861	E1778	V1678	T1605	V1530	T1460
S2051	Q1988	Y1862	K1779	L1679	I1606	A1532	P1461
K2052	L1989	R1863	F1781	Q1680	T1607	G1533	Q1462
E2053	A1990	G1864	D1785	H1681	H1608	E1534	D1463
Y2054	R1991	L1865	S1788	E1684	G1609	S1535	L1464
E2057	F1993	T1866	Y1793	V1685	M1610	L1536	A1465
V2058	A1994	M1867	L1799	E1686	Y1611	G1537	V1466
H2059	T1995	Q1868	A1802	Q1687	V1616	M1538	L1467
R2060	I1996	V1869	T1803	P1688	R1617	P1539	R1468
L2061	P1997	A1870	Q1804	V1689	G1618	V1540	S1469
T2062	L1998	V1871	F1805	T1690	S1618	I1541	K1470
G2063	A1999	E1872	T1806	A1691	L1619	D1542	E1471
S2064	G2000	D1873	Q1807	V1692	V1620	Y1543	W1472
K2066	I2001	D1874	F1807	F1694	T1622	L1544	F1473
P2065	D2002	S1875	T1808	V1707	Y1623	Q1545	K1474
I2067	V2003	R1878	R1809	M1706	E1626	R1546	L1475
A2068	P2004	S1879	M1880	E1707	M1627	I1551	D1476
N2069	F2005	Y1881	A1882	L1708	M1628	E1552	Q1478
N2073	H2006	M1882	M1883	Y1709	G1630	Q1553	H1479
W2074	S2007	A1882				P1554	D1450
K2076	T2008					V1555	
Y2077	F2009						
E2078	L2010						

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	216.37Å 414.43Å 221.51Å 90.00° 111.65° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 88.45 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (12.00-3.10) 89.5 (88.45-3.10)	Depositor EDS
$R_{merge}$	0.16	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.34 (at 3.13Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.290 , 0.320 0.305 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	39.5	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.12 , -83.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.21$ , $\langle L^2 \rangle = 0.07$	Xtriage
Estimated twinning fraction	0.276 for l,-k,h	Xtriage
$F_o, F_c$ correlation	0.76	EDS
Total number of atoms	166671	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.42% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

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

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.38	0/11744	0.55	1/15873 (0.0%)
1	B	0.39	0/11801	0.55	1/15949 (0.0%)
1	C	0.40	0/11785	0.56	0/15928
1	D	0.39	0/11824	0.55	0/15980
1	E	0.39	0/11736	0.55	1/15863 (0.0%)
1	F	0.40	0/11776	0.56	2/15916 (0.0%)
2	G	0.34	0/16573	0.52	0/22516
2	H	0.34	0/16573	0.52	0/22516
2	I	0.34	0/16573	0.52	0/22516
2	J	0.35	0/16573	0.53	0/22516
2	K	0.38	0/16573	0.54	0/22516
2	L	0.35	0/16573	0.53	0/22516
All	All	0.37	0/170104	0.54	5/230605 (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 (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	585	MET	N-CA-C	9.68	137.14	111.00
1	B	608	LYS	N-CA-C	-7.98	89.44	111.00

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	538	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	A	579	MET	N-CA-C	5.72	126.45	111.00
1	F	585	MET	CA-C-O	5.45	131.53	120.10

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	578	ALA	Peptide
1	F	584	ILE	Peptide

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11514	0	11476	745	0
1	B	11571	0	11529	706	1
1	C	11555	0	11507	695	0
1	D	11593	0	11552	733	0
1	E	11506	0	11467	745	0
1	F	11546	0	11499	701	0
2	G	16200	0	16081	1178	1
2	H	16200	0	16081	1209	1
2	I	16200	0	16081	1238	0
2	J	16200	0	16081	1213	0
2	K	16200	0	16081	1262	1
2	L	16200	0	16081	1219	0
3	G	31	0	19	10	0
3	H	31	0	19	11	0
3	I	31	0	19	9	0
3	J	31	0	19	9	0
3	K	31	0	19	12	0
3	L	31	0	19	10	0
All	All	166671	0	165630	11004	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 33.

All (11004) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:43:PHE:HB2	2:I:22:ARG:NH2	1.54	1.21
2:K:1594:ARG:HG2	2:K:1594:ARG:HH11	1.05	1.20
2:H:1594:ARG:HH11	2:H:1594:ARG:HG2	1.02	1.17
1:E:1610:ARG:HH11	1:E:1610:ARG:HG2	1.00	1.16
2:L:1594:ARG:HG2	2:L:1594:ARG:HH11	1.03	1.16
1:C:1268:SER:HB3	1:F:1389:ILE:HG13	1.14	1.14
1:F:1504:ARG:HH11	1:F:1504:ARG:HG3	1.00	1.14
1:B:1268:SER:HB3	1:D:1389:ILE:HG13	1.19	1.13
1:F:1610:ARG:HG2	1:F:1610:ARG:HH11	1.01	1.13
1:A:1610:ARG:HH11	1:A:1610:ARG:HG2	1.00	1.13
2:J:1594:ARG:HG2	2:J:1594:ARG:HH11	0.98	1.12
1:E:1504:ARG:HH11	1:E:1504:ARG:HG3	1.02	1.12
1:B:427:ARG:HH12	1:B:492:ILE:HG12	1.02	1.12
1:B:1389:ILE:HG13	1:D:1268:SER:HB3	1.17	1.12
1:D:1610:ARG:HH11	1:D:1610:ARG:HG2	1.06	1.12
1:C:1610:ARG:HH11	1:C:1610:ARG:HG2	1.08	1.11
1:D:1504:ARG:HH11	1:D:1504:ARG:HG3	1.02	1.11
1:A:427:ARG:HH11	1:A:427:ARG:HG3	1.16	1.11
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.86	1.11
2:I:1594:ARG:HH11	2:I:1594:ARG:HG2	0.98	1.11
2:I:374:GLU:HA	2:I:377:HIS:CD2	1.85	1.11
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.86	1.10
1:A:1504:ARG:HH11	1:A:1504:ARG:HG3	1.03	1.10
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.87	1.10
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.85	1.10
1:F:427:ARG:HG3	1:F:427:ARG:HH11	1.13	1.09
2:I:1767:GLU:HB2	2:I:2016:PRO:HG3	1.29	1.09
1:B:1610:ARG:HG2	1:B:1610:ARG:HH11	1.01	1.09
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.19	1.08
1:B:1504:ARG:HH11	1:B:1504:ARG:HG3	0.99	1.08
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.17	1.08
2:G:1594:ARG:HH11	2:G:1594:ARG:HG2	1.05	1.08
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.87	1.08
1:C:1504:ARG:HG3	1:C:1504:ARG:HH11	0.97	1.07
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.14	1.07
1:B:427:ARG:HH11	1:B:427:ARG:HG3	1.13	1.07
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.12	1.06
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.16	1.06
1:F:1703:VAL:HG11	1:F:1711:LEU:HB3	1.37	1.06
2:H:327:PRO:HD2	2:I:1338:ARG:HH21	1.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1767:GLU:HB2	2:J:2016:PRO:HG3	1.08	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.92	1.05
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.13	1.05
1:C:427:ARG:HG3	1:C:427:ARG:HH11	1.16	1.04
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.17	1.04
1:C:1702:ARG:HH11	1:C:1702:ARG:HG3	1.22	1.04
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.73	1.04
1:E:427:ARG:HH11	1:E:427:ARG:HG3	1.16	1.03
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.92	1.03
2:G:2052:LYS:H	2:G:2052:LYS:HE2	1.22	1.03
1:F:427:ARG:HH12	1:F:492:ILE:HG12	1.24	1.03
2:I:2052:LYS:H	2:I:2052:LYS:HE2	1.23	1.03
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.73	1.03
1:D:527:ALA:HB2	1:D:637:LEU:HD22	1.40	1.03
1:C:339:GLN:HE21	1:E:339:GLN:HE21	1.04	1.02
2:L:1985:GLN:HG3	2:L:1986:PRO:HD3	1.39	1.02
1:F:961:ALA:HB2	1:F:1022:LEU:HD12	1.41	1.02
1:F:989:ASN:H	1:F:1491:ASN:HD21	1.03	1.02
1:A:1389:ILE:HG13	1:E:1268:SER:HB3	1.08	1.02
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.19	1.02
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.95	1.02
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.74	1.02
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.41	1.02
2:J:595:SER:HB3	2:J:602:PRO:HG3	1.42	1.02
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.22	1.02
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.73	1.01
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.40	1.01
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.39	1.01
2:L:1123:ALA:HB3	2:L:1126:GLU:HG3	1.41	1.01
1:F:1702:ARG:HG3	1:F:1702:ARG:HH11	1.25	1.01
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.40	1.01
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.38	1.01
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.41	1.01
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.24	1.01
2:G:1985:GLN:HG3	2:G:1986:PRO:HD3	1.39	1.01
1:D:1702:ARG:HH11	1:D:1702:ARG:HG3	1.22	1.01
2:L:1468:ARG:HH11	2:L:1468:ARG:HG2	1.24	1.01
2:L:300:THR:HB	2:L:303:GLU:H	1.26	1.01
1:B:989:ASN:H	1:B:1491:ASN:HD21	1.01	1.00
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.25	1.00
2:I:374:GLU:HA	2:I:377:HIS:HD2	1.24	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2052:LYS:H	2:K:2052:LYS:HE2	1.22	1.00
1:B:1499:ARG:HD3	1:D:1476:ARG:NH1	1.76	1.00
2:I:1985:GLN:HG3	2:I:1986:PRO:HD3	1.40	1.00
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.43	1.00
1:D:989:ASN:H	1:D:1491:ASN:HD21	1.08	1.00
2:H:2052:LYS:H	2:H:2052:LYS:HE2	1.24	1.00
2:J:2052:LYS:H	2:J:2052:LYS:HE2	1.22	1.00
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.44	1.00
2:L:2052:LYS:HE2	2:L:2052:LYS:H	1.26	1.00
2:G:511:THR:HG22	2:G:512:HIS:CD2	1.97	0.99
2:I:1468:ARG:HH11	2:I:1468:ARG:HG2	1.25	0.99
2:I:300:THR:HB	2:I:303:GLU:H	1.24	0.99
2:K:1985:GLN:HG3	2:K:1986:PRO:HD3	1.44	0.99
2:G:501:TRP:HE1	2:G:528:THR:HG22	1.27	0.99
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.42	0.99
1:B:427:ARG:HH11	1:B:427:ARG:CG	1.76	0.99
1:C:427:ARG:HH12	1:C:492:ILE:HG12	1.26	0.99
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.44	0.99
2:G:374:GLU:HA	2:G:377:HIS:HD2	1.26	0.99
1:A:1079:ARG:HH11	1:A:1079:ARG:HG2	1.27	0.98
2:G:1468:ARG:HH11	2:G:1468:ARG:HG2	1.25	0.98
2:G:300:THR:HB	2:G:303:GLU:H	1.27	0.98
2:H:300:THR:HB	2:H:303:GLU:H	1.28	0.98
2:I:501:TRP:HE1	2:I:528:THR:HG22	1.24	0.98
2:K:300:THR:HB	2:K:303:GLU:H	1.28	0.98
2:K:468:PRO:HG3	2:K:479:ARG:NH2	1.79	0.98
2:L:374:GLU:HA	2:L:377:HIS:HD2	1.26	0.98
1:A:1702:ARG:HH11	1:A:1702:ARG:HG3	1.27	0.98
1:B:1702:ARG:HG3	1:B:1702:ARG:HH11	1.25	0.98
2:H:2005:PHE:HA	2:H:2010:LEU:HD11	1.43	0.98
2:I:595:SER:HB3	2:I:602:PRO:HG3	1.46	0.98
2:G:595:SER:HB3	2:G:602:PRO:HG3	1.44	0.98
1:A:1476:ARG:HH12	1:E:1499:ARG:HD3	1.26	0.98
2:J:1468:ARG:HG2	2:J:1468:ARG:HH11	1.24	0.98
2:K:595:SER:HB3	2:K:602:PRO:HG3	1.42	0.98
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.99	0.98
2:J:300:THR:HB	2:J:303:GLU:H	1.24	0.98
2:L:501:TRP:HE1	2:L:528:THR:HG22	1.25	0.98
1:D:961:ALA:HB2	1:D:1022:LEU:HD12	1.42	0.98
1:D:1079:ARG:HG2	1:D:1079:ARG:HH11	1.29	0.98
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:511:THR:HG22	2:K:512:HIS:CD2	1.99	0.97
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.23	0.97
2:J:1985:GLN:HG3	2:J:1986:PRO:HD3	1.44	0.97
2:K:1468:ARG:HH11	2:K:1468:ARG:HG2	1.25	0.97
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.43	0.97
1:B:1342:ARG:NH1	1:B:1347:THR:HB	1.77	0.97
1:F:427:ARG:CG	1:F:427:ARG:HH11	1.77	0.97
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.43	0.97
2:J:1767:GLU:HB2	2:J:2016:PRO:CG	1.94	0.97
2:H:501:TRP:HE1	2:H:528:THR:HG22	1.29	0.97
1:E:570:TYR:O	1:E:574:ILE:HG13	1.63	0.97
1:E:1342:ARG:NH1	1:E:1347:THR:HB	1.78	0.97
2:H:1468:ARG:HH11	2:H:1468:ARG:HG2	1.27	0.96
1:A:339:GLN:HE21	1:D:339:GLN:HE21	1.00	0.96
1:F:855:ALA:HA	1:F:919:ARG:HH21	1.29	0.96
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.30	0.96
2:I:1594:ARG:NH1	2:I:1594:ARG:HG2	1.77	0.96
2:J:501:TRP:HE1	2:J:528:THR:HG22	1.28	0.96
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.45	0.96
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.44	0.96
1:B:961:ALA:HB2	1:B:1022:LEU:HD12	1.44	0.96
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.46	0.96
1:E:427:ARG:CG	1:E:427:ARG:HH11	1.79	0.96
1:D:427:ARG:CG	1:D:427:ARG:HH11	1.79	0.96
1:A:1703:VAL:HG11	1:A:1711:LEU:HB3	1.45	0.95
1:A:427:ARG:CG	1:A:427:ARG:HH11	1.79	0.95
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.48	0.95
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.79	0.95
1:E:1234:GLY:HA2	1:E:1238:ASP:HB2	1.45	0.95
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.46	0.95
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.47	0.95
2:H:595:SER:HB3	2:H:602:PRO:HG3	1.46	0.95
1:A:989:ASN:H	1:A:1491:ASN:HD21	0.97	0.95
1:B:1005:TRP:NE1	1:B:1561:LEU:HD22	1.81	0.95
1:B:427:ARG:HH12	1:B:492:ILE:CG1	1.78	0.95
1:B:427:ARG:NH1	1:B:492:ILE:HG12	1.80	0.95
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.02	0.95
1:E:962:ASN:HD22	2:K:1006:GLN:HE22	0.96	0.95
2:K:374:GLU:HA	2:K:377:HIS:HD2	1.28	0.95
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.02	0.95
1:F:1610:ARG:HG2	1:F:1610:ARG:NH1	1.78	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1985:GLN:HG3	2:H:1986:PRO:HD3	1.46	0.94
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.47	0.94
1:A:1148:LEU:HD13	1:E:1148:LEU:HD13	1.47	0.94
2:J:1594:ARG:HG2	2:J:1594:ARG:NH1	1.77	0.94
2:G:1468:ARG:CG	2:G:1468:ARG:HH11	1.80	0.94
2:I:468:PRO:HG3	2:I:479:ARG:NH2	1.82	0.94
2:J:1468:ARG:HH11	2:J:1468:ARG:CG	1.80	0.94
1:E:1079:ARG:HG2	1:E:1079:ARG:HH11	1.32	0.94
1:C:427:ARG:CG	1:C:427:ARG:HH11	1.80	0.94
2:G:468:PRO:HG3	2:G:479:ARG:NH2	1.82	0.94
2:K:857:VAL:HG13	2:K:876:TRP:NE1	1.83	0.93
2:J:1338:ARG:HH21	2:L:327:PRO:CD	1.81	0.93
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.03	0.93
1:A:570:TYR:O	1:A:574:ILE:HG13	1.67	0.93
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.34	0.93
2:I:384:ASN:HB3	2:I:527:LEU:HD11	1.50	0.93
1:E:1610:ARG:HG2	1:E:1610:ARG:NH1	1.77	0.93
2:J:1918:VAL:HG13	2:J:2006:HIS:HB2	1.50	0.93
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.03	0.93
2:L:1468:ARG:HH11	2:L:1468:ARG:CG	1.80	0.93
1:F:1702:ARG:HH11	1:F:1702:ARG:CG	1.80	0.93
2:I:1468:ARG:HH11	2:I:1468:ARG:CG	1.80	0.93
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.50	0.93
1:C:1504:ARG:NH1	1:C:1504:ARG:HG3	1.78	0.93
1:C:1702:ARG:HH11	1:C:1702:ARG:CG	1.82	0.93
1:B:612:ILE:HG23	1:B:628:TYR:CD2	2.02	0.93
1:E:989:ASN:H	1:E:1491:ASN:HD21	1.14	0.93
2:H:1290:TYR:CG	2:H:1299:VAL:HG12	2.03	0.93
1:E:1703:VAL:HG11	1:E:1711:LEU:HB3	1.48	0.93
2:H:1468:ARG:CG	2:H:1468:ARG:HH11	1.82	0.93
2:K:1468:ARG:CG	2:K:1468:ARG:HH11	1.80	0.93
1:B:586:GLN:O	1:E:538:ARG:NH2	2.00	0.93
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.84	0.93
1:C:1079:ARG:HG2	1:C:1079:ARG:HH11	1.31	0.92
1:F:1504:ARG:HG3	1:F:1504:ARG:NH1	1.81	0.92
1:B:1702:ARG:CG	1:B:1702:ARG:HH11	1.83	0.92
2:H:2059:HIS:HE1	2:H:2068:ALA:HB2	1.34	0.92
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.04	0.92
2:L:468:PRO:HG3	2:L:479:ARG:NH2	1.83	0.92
1:C:989:ASN:H	1:C:1491:ASN:HD21	1.09	0.92
2:J:1767:GLU:CB	2:J:2016:PRO:HG3	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:ARG:HG2	1:B:1079:ARG:HH11	1.33	0.92
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.83	0.92
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.04	0.92
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.49	0.92
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.35	0.92
1:B:1504:ARG:NH1	1:B:1504:ARG:HG3	1.79	0.92
1:C:1504:ARG:CG	1:C:1504:ARG:HH11	1.81	0.92
2:I:1969:LEU:HD23	2:I:1972:ILE:HD12	1.50	0.92
2:L:1290:TYR:CG	2:L:1299:VAL:HG12	2.05	0.92
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.51	0.92
1:A:881:LEU:HA	1:A:884:MET:HG3	1.52	0.92
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.83	0.92
1:C:1703:VAL:HG11	1:C:1711:LEU:HB3	1.51	0.91
1:E:967:PHE:CD2	1:E:1374:PRO:HG3	2.05	0.91
1:A:1610:ARG:NH1	1:A:1610:ARG:HG2	1.77	0.91
2:G:1594:ARG:NH1	2:G:1594:ARG:HG2	1.82	0.91
2:I:468:PRO:HG3	2:I:479:ARG:HH21	1.36	0.91
2:J:1290:TYR:CG	2:J:1299:VAL:HG12	2.05	0.91
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.36	0.91
2:H:48:LEU:HD12	2:H:101:VAL:HG11	1.51	0.91
1:F:1663:LYS:HG2	2:L:1007:LEU:HD11	1.53	0.91
1:D:1342:ARG:HH11	1:D:1347:THR:HB	1.35	0.91
1:D:1425:LEU:HD21	1:D:1429:ARG:HH21	1.33	0.91
1:E:689:ARG:HD2	1:E:1339:GLU:CD	1.90	0.91
2:G:1290:TYR:CG	2:G:1299:VAL:HG12	2.05	0.91
1:F:1342:ARG:HH11	1:F:1347:THR:HB	1.32	0.91
1:A:1702:ARG:HH11	1:A:1702:ARG:CG	1.84	0.91
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.53	0.91
2:I:1637:VAL:HG11	2:I:1679:LEU:HD13	1.52	0.90
2:J:374:GLU:HA	2:J:377:HIS:HD2	1.26	0.90
1:B:1504:ARG:HH11	1:B:1504:ARG:CG	1.85	0.90
2:I:1305:LEU:HD11	2:I:1365:LYS:HD2	1.54	0.90
2:J:48:LEU:HD12	2:J:101:VAL:HG11	1.51	0.90
1:D:570:TYR:O	1:D:574:ILE:HG13	1.71	0.90
2:L:1721:ARG:NH2	2:L:1853:ILE:HD12	1.87	0.90
1:E:1213:VAL:HG22	1:E:1300:ARG:HH21	1.33	0.90
2:I:1721:ARG:NH2	2:I:1853:ILE:HD12	1.86	0.90
1:A:1504:ARG:NH1	1:A:1504:ARG:HG3	1.84	0.90
1:F:1504:ARG:HH11	1:F:1504:ARG:CG	1.84	0.90
2:G:1266:HIS:HE1	2:G:1275:ARG:HD2	1.34	0.90
2:K:685:VAL:HG23	2:K:1186:ARG:NH1	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1499:ARG:HD3	1:E:1476:ARG:HH12	1.36	0.89
2:K:582:LYS:HB2	2:K:1112:VAL:HG22	1.52	0.89
1:D:1504:ARG:CG	1:D:1504:ARG:HH11	1.84	0.89
2:G:1969:LEU:HD23	2:G:1972:ILE:HD12	1.53	0.89
2:K:468:PRO:HG3	2:K:479:ARG:HH21	1.36	0.89
2:K:1290:TYR:CG	2:K:1299:VAL:HG12	2.07	0.89
2:K:1769:VAL:HG22	2:K:1775:ILE:HA	1.52	0.89
1:A:574:ILE:CG2	1:A:579:MET:HB2	2.03	0.89
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.08	0.89
2:H:1090:ILE:O	2:H:1094:HIS:HD2	1.54	0.89
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.08	0.89
2:I:1090:ILE:O	2:I:1094:HIS:HD2	1.56	0.89
2:I:1290:TYR:CG	2:I:1299:VAL:HG12	2.06	0.89
1:C:1610:ARG:NH1	1:C:1610:ARG:HG2	1.84	0.89
2:J:2059:HIS:HE1	2:J:2068:ALA:HB2	1.37	0.89
1:D:824:LEU:HB3	1:D:839:ILE:HD13	1.54	0.89
2:G:468:PRO:HG3	2:G:479:ARG:HH21	1.37	0.89
2:H:846:THR:HG21	2:H:866:HIS:CD2	2.08	0.89
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.56	0.89
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.38	0.89
1:C:824:LEU:HB3	1:C:839:ILE:HD13	1.51	0.89
2:H:1721:ARG:NH2	2:H:1853:ILE:HD12	1.88	0.89
2:J:1637:VAL:HG11	2:J:1679:LEU:HD13	1.55	0.89
2:J:762:LEU:HD22	2:J:802:TYR:HD2	1.38	0.89
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.55	0.88
1:D:1504:ARG:NH1	1:D:1504:ARG:HG3	1.83	0.88
1:D:1213:VAL:HG22	1:D:1300:ARG:HH21	1.37	0.88
1:F:1005:TRP:NE1	1:F:1561:LEU:HD22	1.87	0.88
2:K:846:THR:HG21	2:K:866:HIS:CD2	2.08	0.88
1:D:1610:ARG:NH1	1:D:1610:ARG:HG2	1.82	0.88
1:F:1079:ARG:HH11	1:F:1079:ARG:HG2	1.35	0.88
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.38	0.88
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.53	0.88
2:H:374:GLU:HA	2:H:377:HIS:HD2	1.24	0.88
1:C:1148:LEU:HD13	1:F:1148:LEU:HD13	1.55	0.88
1:D:689:ARG:HD2	1:D:1339:GLU:CD	1.93	0.88
1:E:1504:ARG:CG	1:E:1504:ARG:HH11	1.85	0.88
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.37	0.88
2:L:468:PRO:HG3	2:L:479:ARG:HH21	1.38	0.88
2:L:582:LYS:HB2	2:L:1112:VAL:HG22	1.55	0.88
2:G:1896:THR:HG22	2:G:1898:GLN:H	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1123:ALA:CB	2:L:1126:GLU:HG3	2.02	0.88
1:A:533:SER:HB2	1:A:612:ILE:HB	1.56	0.88
2:H:468:PRO:HG3	2:H:479:ARG:NH2	1.89	0.88
1:A:1005:TRP:NE1	1:A:1561:LEU:HD22	1.88	0.88
2:G:48:LEU:HD12	2:G:101:VAL:HG11	1.54	0.88
2:G:1767:GLU:HB2	2:G:2016:PRO:HG3	1.56	0.88
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.37	0.88
2:J:582:LYS:HB2	2:J:1112:VAL:HG22	1.55	0.88
2:G:1436:ARG:NH2	2:G:1602:LEU:HD21	1.89	0.88
2:G:582:LYS:HB2	2:G:1112:VAL:HG22	1.53	0.88
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	2.08	0.88
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.03	0.88
1:B:1610:ARG:HG2	1:B:1610:ARG:NH1	1.78	0.88
2:I:1769:VAL:HG22	2:I:1775:ILE:HA	1.56	0.88
2:J:1969:LEU:HD23	2:J:1972:ILE:HD12	1.56	0.88
2:L:2059:HIS:HE1	2:L:2068:ALA:HB2	1.39	0.88
2:G:1918:VAL:HG13	2:G:2006:HIS:HB2	1.52	0.87
2:K:1969:LEU:HD23	2:K:1972:ILE:HD12	1.54	0.87
1:B:427:ARG:NH1	1:B:492:ILE:CG1	2.36	0.87
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.37	0.87
1:F:1213:VAL:HG22	1:F:1300:ARG:HH21	1.37	0.87
2:G:1266:HIS:CE1	2:G:1275:ARG:HD2	2.08	0.87
2:I:1266:HIS:HE1	2:I:1275:ARG:HD2	1.39	0.87
2:L:1770:ASN:HB2	2:L:1776:LYS:HE2	1.55	0.87
1:C:1005:TRP:NE1	1:C:1561:LEU:HD22	1.88	0.87
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.55	0.87
1:B:342:ILE:HD11	1:F:342:ILE:HD11	1.56	0.87
1:C:1273:ILE:HD11	1:F:1630:LYS:HD2	1.57	0.87
2:H:1594:ARG:NH1	2:H:1594:ARG:HG2	1.81	0.87
2:J:468:PRO:HG3	2:J:479:ARG:NH2	1.88	0.87
2:K:190:TYR:HD1	2:K:201:ILE:HD13	1.39	0.87
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.55	0.87
2:L:1594:ARG:NH1	2:L:1594:ARG:HG2	1.82	0.87
1:A:689:ARG:HD2	1:A:1339:GLU:CD	1.94	0.87
1:E:1504:ARG:HG3	1:E:1504:ARG:NH1	1.83	0.87
2:I:422:THR:HG23	2:I:844:GLU:OE2	1.75	0.87
2:L:1637:VAL:HG11	2:L:1679:LEU:HD13	1.55	0.87
2:K:1594:ARG:HG2	2:K:1594:ARG:NH1	1.83	0.87
2:K:57:PRO:HG3	2:K:68:GLU:HG3	1.56	0.87
1:A:824:LEU:HB3	1:A:839:ILE:HD13	1.55	0.87
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:427:ARG:HH12	1:D:492:ILE:HG12	1.38	0.87
2:I:48:LEU:HD12	2:I:101:VAL:HG11	1.57	0.87
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	1.89	0.87
2:K:2052:LYS:HB3	2:K:2074:TRP:CE2	2.10	0.87
1:B:1213:VAL:HG22	1:B:1300:ARG:HH21	1.40	0.87
2:H:1969:LEU:HD23	2:H:1972:ILE:HD12	1.57	0.87
2:I:416:GLN:HE22	2:I:425:LYS:H	1.23	0.87
1:B:1630:LYS:HD2	1:D:1273:ILE:HD11	1.57	0.86
1:E:962:ASN:HD22	2:K:1006:GLN:NE2	1.71	0.86
2:G:1770:ASN:HB2	2:G:1776:LYS:HE2	1.57	0.86
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.90	0.86
1:C:1342:ARG:HH11	1:C:1347:THR:HB	1.35	0.86
2:L:1969:LEU:HD23	2:L:1972:ILE:HD12	1.55	0.86
1:F:881:LEU:HA	1:F:884:MET:HG3	1.57	0.86
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.40	0.86
2:L:2052:LYS:HB3	2:L:2074:TRP:CE2	2.10	0.86
2:H:2052:LYS:HB3	2:H:2074:TRP:CE2	2.09	0.86
2:J:1266:HIS:HE1	2:J:1275:ARG:HD2	1.38	0.86
2:K:48:LEU:HD12	2:K:101:VAL:HG11	1.58	0.86
2:K:2059:HIS:CE1	2:K:2068:ALA:HB2	2.09	0.86
2:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.41	0.86
1:E:824:LEU:HB3	1:E:839:ILE:HD13	1.57	0.86
2:I:779:GLY:O	2:I:780:SER:HB3	1.74	0.86
2:K:2059:HIS:HE1	2:K:2068:ALA:HB2	1.37	0.86
1:E:557:ARG:HH11	1:E:557:ARG:CG	1.88	0.86
2:H:1266:HIS:HE1	2:H:1275:ARG:HD2	1.38	0.86
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.90	0.86
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.39	0.86
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.75	0.86
1:D:557:ARG:HH11	1:D:557:ARG:CG	1.89	0.86
1:E:532:ILE:CG2	1:E:907:PHE:HB2	2.05	0.86
2:H:582:LYS:HB2	2:H:1112:VAL:HG22	1.58	0.86
2:J:1156:ASP:HB2	2:J:1159:SER:H	1.37	0.86
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.39	0.86
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.11	0.86
1:B:824:LEU:HB3	1:B:839:ILE:HD13	1.57	0.86
1:D:1005:TRP:NE1	1:D:1561:LEU:HD22	1.89	0.86
2:H:1266:HIS:CE1	2:H:1275:ARG:HD2	2.09	0.86
2:K:1721:ARG:NH2	2:K:1853:ILE:HD12	1.91	0.86
2:L:1266:HIS:HE1	2:L:1275:ARG:HD2	1.39	0.86
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2059:HIS:CE1	2:J:2068:ALA:HB2	2.11	0.86
2:L:1769:VAL:HG22	2:L:1775:ILE:HA	1.56	0.86
1:A:1504:ARG:HH11	1:A:1504:ARG:CG	1.85	0.85
2:H:1769:VAL:HG22	2:H:1775:ILE:HA	1.56	0.85
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	1.91	0.85
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.41	0.85
1:A:1389:ILE:CG1	1:E:1268:SER:HB3	2.03	0.85
1:F:616:HIS:HA	1:F:633:THR:HG23	1.59	0.85
2:K:1266:HIS:HE1	2:K:1275:ARG:HD2	1.39	0.85
1:D:689:ARG:CZ	1:D:1339:GLU:HG2	2.07	0.85
1:E:689:ARG:NE	1:E:1339:GLU:HG2	1.90	0.85
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.37	0.85
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.11	0.85
2:J:327:PRO:O	2:K:1338:ARG:NH2	2.09	0.85
2:K:1156:ASP:HB2	2:K:1159:SER:H	1.39	0.85
2:G:1637:VAL:HG11	2:G:1679:LEU:HD13	1.57	0.85
2:I:846:THR:HG21	2:I:866:HIS:CD2	2.10	0.85
2:J:1770:ASN:HB2	2:J:1776:LYS:HE2	1.58	0.85
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.40	0.85
1:F:824:LEU:HB3	1:F:839:ILE:HD13	1.56	0.85
2:G:1721:ARG:NH2	2:G:1853:ILE:HD12	1.90	0.85
2:I:1460:THR:HG22	2:I:1462:GLN:H	1.42	0.85
2:I:1918:VAL:HG13	2:I:2006:HIS:HB2	1.58	0.85
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.41	0.85
1:A:557:ARG:CG	1:A:557:ARG:HH11	1.90	0.85
2:G:1090:ILE:O	2:G:1094:HIS:HD2	1.58	0.85
2:K:1616:VAL:HG11	2:K:1679:LEU:HD12	1.58	0.85
2:I:582:LYS:HB2	2:I:1112:VAL:HG22	1.58	0.85
2:K:1896:THR:HG22	2:K:1898:GLN:H	1.41	0.85
2:K:465:LEU:O	2:K:479:ARG:HD3	1.77	0.85
2:L:48:LEU:HD12	2:L:101:VAL:HG11	1.58	0.85
2:H:468:PRO:HG3	2:H:479:ARG:HH21	1.42	0.85
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.41	0.85
2:L:846:THR:HG21	2:L:866:HIS:CD2	2.12	0.85
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.57	0.85
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.59	0.85
1:C:755:GLU:HG2	1:D:831:GLU:HG2	1.59	0.85
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.58	0.85
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.58	0.85
2:L:779:GLY:O	2:L:780:SER:HB3	1.77	0.84
1:B:1273:ILE:HD11	1:D:1630:LYS:HD2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:965:TYR:CZ	1:E:1199:LEU:HD22	2.12	0.84
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.57	0.84
1:E:612:ILE:HG12	1:E:628:TYR:CE2	2.13	0.84
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.91	0.84
2:I:2059:HIS:HE1	2:I:2068:ALA:HB2	1.41	0.84
2:J:1769:VAL:HG22	2:J:1775:ILE:HA	1.58	0.84
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.58	0.84
2:L:1985:GLN:CG	2:L:1986:PRO:HD3	2.07	0.84
1:C:881:LEU:HA	1:C:884:MET:HG3	1.59	0.84
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.42	0.84
2:G:2059:HIS:HE1	2:G:2068:ALA:HB2	1.41	0.84
2:K:468:PRO:CG	2:K:479:ARG:HH21	1.90	0.84
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.59	0.84
2:H:762:LEU:HD22	2:H:802:TYR:HD2	1.40	0.84
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.93	0.84
1:E:427:ARG:NH1	1:E:427:ARG:HG3	1.90	0.84
2:G:1769:VAL:HG22	2:G:1775:ILE:HA	1.59	0.84
2:G:416:GLN:HE22	2:G:425:LYS:H	1.25	0.84
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.59	0.84
2:J:1594:ARG:CG	2:J:1594:ARG:HH11	1.89	0.84
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.12	0.84
2:L:762:LEU:HD22	2:L:802:TYR:HD2	1.39	0.84
2:H:1637:VAL:HG11	2:H:1679:LEU:HD13	1.59	0.84
2:L:485:ASP:HB3	2:L:488:PRO:HD2	1.59	0.84
1:A:427:ARG:NH1	1:A:427:ARG:HG3	1.91	0.84
2:J:1266:HIS:CE1	2:J:1275:ARG:HD2	2.12	0.84
1:C:1476:ARG:HH12	1:F:1499:ARG:HD3	1.41	0.84
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.60	0.84
2:G:327:PRO:HD2	2:H:1338:ARG:NH2	1.91	0.84
2:H:750:GLY:HA2	2:H:865:ILE:HG23	1.60	0.84
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.59	0.84
2:K:762:LEU:HD22	2:K:802:TYR:HD2	1.43	0.84
2:H:1770:ASN:HB2	2:H:1776:LYS:HE2	1.58	0.83
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.42	0.83
2:G:24:LEU:HD12	2:G:37:VAL:HG21	1.60	0.83
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.61	0.83
2:J:1610:MET:HA	2:J:1610:MET:HE2	1.58	0.83
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.37	0.83
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.41	0.83
1:E:1623:THR:HG22	1:E:1633:GLN:HG3	1.59	0.83
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:846:THR:HG21	2:G:866:HIS:CD2	2.13	0.83
1:E:558:LEU:HB2	1:E:563:GLN:HG3	1.60	0.83
2:J:416:GLN:HE22	2:J:425:LYS:H	1.24	0.83
2:J:468:PRO:HG3	2:J:479:ARG:HH21	1.41	0.83
2:J:779:GLY:O	2:J:780:SER:HB3	1.77	0.83
2:K:914:TRP:NE1	2:K:916:GLY:HA3	1.93	0.83
1:A:1213:VAL:HG22	1:A:1300:ARG:HH21	1.43	0.83
1:A:962:ASN:HD22	2:G:1006:GLN:HE22	1.26	0.83
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.61	0.83
2:G:57:PRO:HG3	2:G:68:GLU:HG3	1.59	0.83
2:I:762:LEU:HD22	2:I:802:TYR:HD2	1.42	0.83
2:J:1896:THR:HG22	2:J:1898:GLN:H	1.43	0.83
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.61	0.83
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.61	0.83
1:D:605:ARG:HB3	1:D:606:PRO:CD	2.08	0.83
1:C:567:ASN:HA	1:C:570:TYR:HB3	1.61	0.83
2:J:57:PRO:HG3	2:J:68:GLU:HG3	1.59	0.83
1:B:1241:LEU:HD23	1:B:1243:LYS:HE3	1.60	0.83
2:L:416:GLN:HE22	2:L:425:LYS:H	1.27	0.83
1:B:1342:ARG:HH11	1:B:1347:THR:HB	1.40	0.82
1:C:427:ARG:HG3	1:C:427:ARG:NH1	1.91	0.82
2:I:1896:THR:HG22	2:I:1898:GLN:H	1.44	0.82
1:D:427:ARG:NH1	1:D:427:ARG:HG3	1.90	0.82
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	1.61	0.82
2:L:590:VAL:HG23	2:L:1091:HIS:NE2	1.94	0.82
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	1.95	0.82
2:J:846:THR:HG21	2:J:866:HIS:CD2	2.14	0.82
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.61	0.82
2:H:485:ASP:HB3	2:H:488:PRO:HD2	1.61	0.82
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.60	0.82
2:L:57:PRO:HG3	2:L:68:GLU:HG3	1.61	0.82
1:B:1094:LYS:HE3	1:B:1316:TYR:CD1	2.14	0.82
1:C:683:THR:HB	1:C:714:PHE:HB3	1.61	0.82
2:G:762:LEU:HD22	2:G:802:TYR:HD2	1.43	0.82
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.44	0.82
2:I:1266:HIS:CE1	2:I:1275:ARG:HD2	2.14	0.82
2:K:2052:LYS:HD3	2:K:2074:TRP:NE1	1.93	0.82
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.42	0.82
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.61	0.82
1:D:689:ARG:NE	1:D:1339:GLU:HG2	1.94	0.82
2:G:1457:HIS:ND1	2:G:1487:THR:HG22	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:942:MET:HE2	2:K:955:LEU:HD13	1.62	0.82
2:L:485:ASP:CB	2:L:488:PRO:HD2	2.10	0.82
2:L:521:VAL:HG11	2:L:549:ASN:HB2	1.62	0.82
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.62	0.82
1:A:1241:LEU:HD23	1:A:1243:LYS:HE3	1.60	0.82
1:B:565:GLN:O	1:B:569:LEU:HD12	1.79	0.82
2:G:750:GLY:HA2	2:G:865:ILE:HG23	1.62	0.82
2:K:779:GLY:O	2:K:780:SER:HB3	1.79	0.82
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.59	0.82
1:D:881:LEU:HA	1:D:884:MET:HG3	1.59	0.82
1:F:427:ARG:HG3	1:F:427:ARG:NH1	1.87	0.82
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.60	0.82
2:L:1266:HIS:CE1	2:L:1275:ARG:HD2	2.14	0.82
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	1.95	0.82
2:H:779:GLY:O	2:H:780:SER:HB3	1.78	0.82
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	1.94	0.82
2:J:396:ILE:H	2:J:396:ILE:HD12	1.43	0.82
2:K:1067:LEU:HD13	3:K:2101:FMN:HM72	1.62	0.82
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.14	0.82
1:D:558:LEU:HB2	1:D:563:GLN:HG3	1.61	0.81
1:D:855:ALA:HA	1:D:919:ARG:HH21	1.45	0.81
2:K:1266:HIS:CE1	2:K:1275:ARG:HD2	2.14	0.81
2:L:465:LEU:O	2:L:479:ARG:HD3	1.79	0.81
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.15	0.81
2:G:471:ASP:HB3	2:G:474:THR:O	1.80	0.81
2:I:57:PRO:HG3	2:I:68:GLU:HG3	1.60	0.81
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.60	0.81
2:G:396:ILE:H	2:G:396:ILE:HD12	1.45	0.81
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.61	0.81
2:L:914:TRP:NE1	2:L:916:GLY:HA3	1.94	0.81
1:A:689:ARG:NE	1:A:1339:GLU:HG2	1.95	0.81
1:E:1108:PRO:HG3	1:E:1141:ARG:HE	1.46	0.81
1:E:427:ARG:HH12	1:E:492:ILE:HG12	1.44	0.81
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.59	0.81
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.61	0.81
2:L:750:GLY:HA2	2:L:865:ILE:HG23	1.61	0.81
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.63	0.81
1:D:1241:LEU:HD23	1:D:1243:LYS:HE3	1.61	0.81
1:D:542:GLN:HB3	1:D:579:MET:HE2	1.60	0.81
2:G:468:PRO:CG	2:G:479:ARG:HH21	1.92	0.81
2:J:590:VAL:HG23	2:J:1091:HIS:NE2	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.14	0.81
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.63	0.81
2:G:914:TRP:NE1	2:G:916:GLY:HA3	1.95	0.81
2:L:1436:ARG:NH2	2:L:1602:LEU:HD21	1.96	0.81
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.96	0.81
1:A:1363:MET:HE1	1:A:1373:VAL:HG21	1.61	0.81
2:H:416:GLN:HE22	2:H:425:LYS:H	1.26	0.81
1:B:881:LEU:HA	1:B:884:MET:HG3	1.60	0.81
1:F:1363:MET:HE1	1:F:1373:VAL:HG21	1.62	0.81
1:F:1674:ILE:HD11	2:L:1011:GLN:HG3	1.60	0.81
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.61	0.81
2:I:468:PRO:CG	2:I:479:ARG:HH21	1.94	0.81
2:K:521:VAL:HG11	2:K:549:ASN:HB2	1.62	0.81
2:K:846:THR:HG21	2:K:866:HIS:HD2	1.45	0.81
1:B:1476:ARG:HH12	1:D:1499:ARG:HD3	1.46	0.81
1:F:1241:LEU:HD23	1:F:1243:LYS:HE3	1.63	0.81
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.15	0.81
2:I:674:ILE:HD13	2:I:705:TYR:CE2	2.15	0.81
2:J:1479:HIS:HD2	2:J:1481:ILE:HG12	1.44	0.81
1:C:729:ILE:HA	1:C:736:LEU:CD2	2.11	0.81
2:I:24:LEU:HD12	2:I:37:VAL:HG21	1.63	0.81
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.16	0.81
1:A:1099:GLU:HG2	1:A:1149:LEU:HD21	1.62	0.80
1:B:1099:GLU:HG2	1:B:1149:LEU:HD21	1.62	0.80
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.10	0.80
2:I:485:ASP:HB3	2:I:488:PRO:HD2	1.61	0.80
2:J:521:VAL:HG11	2:J:549:ASN:HB2	1.63	0.80
1:A:558:LEU:HB2	1:A:563:GLN:HG3	1.63	0.80
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.64	0.80
1:C:1213:VAL:HG22	1:C:1300:ARG:HH21	1.46	0.80
1:C:1241:LEU:HD23	1:C:1243:LYS:HE3	1.63	0.80
1:F:1610:ARG:CG	1:F:1610:ARG:HH11	1.91	0.80
1:F:1623:THR:HG22	1:F:1633:GLN:HG3	1.60	0.80
2:H:485:ASP:CB	2:H:488:PRO:HD2	2.11	0.80
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.14	0.80
2:I:396:ILE:H	2:I:396:ILE:HD12	1.45	0.80
2:K:1479:HIS:HD2	2:K:1481:ILE:HG12	1.45	0.80
2:L:468:PRO:CG	2:L:479:ARG:HH21	1.94	0.80
1:B:1674:ILE:HD11	2:H:1011:GLN:HG3	1.61	0.80
2:H:1896:THR:HG22	2:H:1898:GLN:H	1.46	0.80
2:K:1770:ASN:HB2	2:K:1776:LYS:HE2	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1985:GLN:CG	2:I:1986:PRO:HD3	2.09	0.80
2:J:465:LEU:O	2:J:479:ARG:HD3	1.82	0.80
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.63	0.80
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.82	0.80
2:J:674:ILE:HD13	2:J:705:TYR:CE2	2.16	0.80
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	1.81	0.80
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.62	0.80
1:A:1476:ARG:NH1	1:E:1499:ARG:HD3	1.95	0.80
2:L:1460:THR:HG22	2:L:1462:GLN:H	1.46	0.80
2:L:1896:THR:HG22	2:L:1898:GLN:H	1.46	0.80
1:B:326:ASP:HB3	1:B:333:ARG:HH12	1.47	0.80
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.64	0.80
2:K:1460:THR:HG22	2:K:1462:GLN:H	1.45	0.80
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.12	0.80
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.64	0.80
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.96	0.80
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.64	0.80
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	1.96	0.80
1:E:689:ARG:CZ	1:E:1339:GLU:HG2	2.12	0.80
2:G:779:GLY:O	2:G:780:SER:HB3	1.78	0.80
2:H:521:VAL:HG11	2:H:549:ASN:HB2	1.64	0.80
2:I:485:ASP:CB	2:I:488:PRO:HD2	2.12	0.80
2:J:914:TRP:NE1	2:J:916:GLY:HA3	1.95	0.80
2:K:1985:GLN:CG	2:K:1986:PRO:HD3	2.12	0.80
1:A:326:ASP:HB3	1:A:333:ARG:HH12	1.46	0.80
1:B:1623:THR:HG22	1:B:1633:GLN:HG3	1.62	0.80
1:B:689:ARG:HD2	1:B:1339:GLU:CD	2.02	0.80
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.62	0.80
2:I:1436:ARG:NH2	2:I:1602:LEU:HD21	1.97	0.80
1:C:326:ASP:HB3	1:C:333:ARG:HH12	1.47	0.79
1:B:552:ILE:HG12	1:E:552:ILE:HD11	1.63	0.79
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.12	0.79
2:H:590:VAL:HG23	2:H:1091:HIS:NE2	1.98	0.79
1:B:616:HIS:HA	1:B:633:THR:HG23	1.64	0.79
1:C:868:VAL:HG11	1:C:908:ILE:HD11	1.63	0.79
1:B:551:LEU:HD11	1:E:565:GLN:HG3	1.62	0.79
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.64	0.79
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.62	0.79
1:E:1663:LYS:HG2	2:K:1007:LEU:HD11	1.64	0.79
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.61	0.79
2:H:605:VAL:HB	2:H:628:ILE:HG13	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:372:LEU:HD11	1:E:371:GLN:HG2	1.64	0.79
1:D:683:THR:HB	1:D:714:PHE:HB3	1.62	0.79
2:K:416:GLN:HE22	2:K:425:LYS:H	1.27	0.79
2:K:501:TRP:HE1	2:K:528:THR:CG2	1.94	0.79
2:G:487:ILE:HB	2:G:488:PRO:HD3	1.65	0.79
2:H:43:PHE:CG	2:I:22:ARG:NE	2.49	0.79
2:I:511:THR:HG22	2:I:512:HIS:HD2	1.44	0.79
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.12	0.79
1:B:855:ALA:HA	1:B:919:ARG:HH21	1.47	0.79
1:C:824:LEU:HB3	1:C:839:ILE:CD1	2.13	0.79
2:K:485:ASP:HB3	2:K:488:PRO:HD2	1.63	0.79
2:K:750:GLY:HA2	2:K:865:ILE:HG23	1.64	0.79
1:A:574:ILE:HG23	1:A:579:MET:HB2	1.63	0.79
1:A:679:LYS:HG2	1:A:708:GLN:HB3	1.63	0.79
1:E:855:ALA:HA	1:E:919:ARG:HH21	1.47	0.79
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.65	0.79
2:G:521:VAL:HG11	2:G:549:ASN:HB2	1.63	0.79
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.64	0.79
1:A:439:ARG:HA	1:A:705:ARG:HG2	1.65	0.79
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.63	0.79
1:F:326:ASP:HB3	1:F:333:ARG:HH12	1.48	0.79
2:G:215:TRP:HE3	2:G:216:ASP:H	1.29	0.79
2:H:846:THR:HG21	2:H:866:HIS:HD2	1.46	0.79
2:I:521:VAL:HG11	2:I:549:ASN:HB2	1.65	0.79
2:J:485:ASP:HB3	2:J:488:PRO:HD2	1.65	0.79
2:K:471:ASP:HB3	2:K:474:THR:O	1.83	0.79
2:K:605:VAL:HB	2:K:628:ILE:HG13	1.64	0.79
1:E:965:TYR:CE1	1:E:1199:LEU:HD22	2.18	0.79
1:C:1630:LYS:HD2	1:F:1273:ILE:HD11	1.65	0.79
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.64	0.79
2:K:1637:VAL:HG11	2:K:1679:LEU:HD13	1.65	0.79
2:L:1610:MET:HE2	2:L:1610:MET:HA	1.63	0.79
1:B:628:TYR:HD1	1:B:629:SER:N	1.80	0.79
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.64	0.79
1:D:1330:GLU:OE1	1:D:1340:MET:HB3	1.83	0.79
2:G:590:VAL:HG23	2:G:1091:HIS:NE2	1.97	0.79
2:G:485:ASP:HB3	2:G:488:PRO:HD2	1.64	0.79
2:J:1616:VAL:HG11	2:J:1679:LEU:HD12	1.64	0.79
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.18	0.79
2:L:1871:VAL:HG21	2:L:2004:PRO:HD3	1.63	0.79
1:C:392:ASP:HB3	1:C:395:LYS:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.64	0.78
2:G:674:ILE:HD13	2:G:705:TYR:CE2	2.18	0.78
2:H:465:LEU:O	2:H:479:ARG:HD3	1.82	0.78
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.65	0.78
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.66	0.78
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.13	0.78
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.65	0.78
2:L:1457:HIS:ND1	2:L:1487:THR:HG22	1.98	0.78
2:L:605:VAL:HB	2:L:628:ILE:HG13	1.64	0.78
1:D:27:ARG:HG3	2:J:2045:ALA:HB2	1.66	0.78
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.65	0.78
1:E:486:VAL:HG11	1:E:647:GLY:HA3	1.66	0.78
2:H:1436:ARG:NH2	2:H:1602:LEU:HD21	1.97	0.78
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.46	0.78
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.63	0.78
2:H:57:PRO:HG3	2:H:68:GLU:HG3	1.63	0.78
1:E:998:GLY:HA3	1:E:1361:VAL:HG13	1.64	0.78
1:E:881:LEU:HA	1:E:884:MET:HG3	1.65	0.78
1:C:1499:ARG:HD3	1:F:1476:ARG:HH12	1.48	0.78
1:F:1703:VAL:CG1	1:F:1711:LEU:HB3	2.11	0.78
2:G:1985:GLN:CG	2:G:1986:PRO:HD3	2.11	0.78
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.18	0.78
2:L:674:ILE:HD13	2:L:705:TYR:CE2	2.18	0.78
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.66	0.78
2:H:1616:VAL:HG11	2:H:1679:LEU:HD12	1.63	0.78
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.65	0.78
2:K:485:ASP:CB	2:K:488:PRO:HD2	2.14	0.78
2:L:1007:LEU:HD12	2:L:1007:LEU:H	1.45	0.78
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.65	0.78
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	1.83	0.78
1:D:326:ASP:HB3	1:D:333:ARG:HH12	1.46	0.78
2:G:610:PRO:HD2	3:G:2101:FMN:H6	1.66	0.78
2:I:215:TRP:HE3	2:I:216:ASP:H	1.31	0.78
2:J:1436:ARG:NH2	2:J:1602:LEU:HD21	1.98	0.78
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.48	0.78
2:L:251:PRO:HG3	2:L:316:PHE:HA	1.63	0.78
2:H:1090:ILE:O	2:H:1094:HIS:CD2	2.37	0.78
2:H:1479:HIS:HD2	2:H:1481:ILE:HG12	1.49	0.78
2:H:638:ALA:HA	2:H:672:TRP:CZ3	2.19	0.78
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.63	0.78
2:K:376:ARG:HB3	2:K:394:PRO:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1278:GLY:HA2	1:D:1630:LYS:HE2	1.66	0.78
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.13	0.78
1:B:427:ARG:NH1	1:B:427:ARG:HG3	1.88	0.78
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.64	0.78
1:C:339:GLN:NE2	1:E:339:GLN:HE21	1.82	0.78
1:F:868:VAL:HG11	1:F:908:ILE:HD11	1.63	0.78
2:G:1616:VAL:HG11	2:G:1679:LEU:HD12	1.66	0.78
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.64	0.78
2:H:1067:LEU:HD13	3:H:2101:FMN:HM72	1.66	0.78
2:J:1985:GLN:CG	2:J:1986:PRO:HD3	2.13	0.78
2:J:605:VAL:HB	2:J:628:ILE:HG13	1.66	0.78
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.66	0.78
1:B:1610:ARG:CG	1:B:1610:ARG:HH11	1.90	0.78
1:E:1241:LEU:HD23	1:E:1243:LYS:HE3	1.66	0.78
1:E:43:ARG:NH1	2:K:1687:GLN:HE21	1.81	0.78
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.65	0.78
2:H:487:ILE:HB	2:H:488:PRO:HD3	1.66	0.78
2:I:501:TRP:HE1	2:I:528:THR:CG2	1.97	0.78
2:J:638:ALA:HA	2:J:672:TRP:CZ3	2.19	0.78
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.24	0.78
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.18	0.78
1:A:683:THR:HB	1:A:714:PHE:HB3	1.66	0.77
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.13	0.77
1:C:1099:GLU:HG2	1:C:1149:LEU:HD21	1.63	0.77
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.63	0.77
1:F:40:ARG:HH21	1:F:74:VAL:HG22	1.48	0.77
2:I:1767:GLU:CB	2:I:2016:PRO:HG3	2.11	0.77
2:I:376:ARG:HB3	2:I:394:PRO:HG2	1.66	0.77
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.66	0.77
2:I:914:TRP:NE1	2:I:916:GLY:HA3	1.99	0.77
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.66	0.77
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.66	0.77
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.19	0.77
2:J:485:ASP:CB	2:J:488:PRO:HD2	2.15	0.77
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.44	0.77
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.19	0.77
1:A:422:LEU:HD13	1:A:429:ILE:HG12	1.65	0.77
1:B:72:THR:HB	1:B:74:VAL:HG23	1.63	0.77
1:D:1108:PRO:HG3	1:D:1141:ARG:HE	1.50	0.77
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.18	0.77
2:G:190:TYR:HD1	2:G:201:ILE:HD13	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:396:ILE:H	2:H:396:ILE:HD12	1.47	0.77
2:I:1007:LEU:HD12	2:I:1007:LEU:H	1.47	0.77
2:I:765:TYR:HB2	2:I:805:MET:HE3	1.67	0.77
2:I:750:GLY:HA2	2:I:865:ILE:HG23	1.65	0.77
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.19	0.77
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.65	0.77
1:A:729:ILE:HA	1:A:736:LEU:HD21	1.65	0.77
1:C:40:ARG:NH2	1:C:74:VAL:HG22	1.99	0.77
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.66	0.77
1:C:973:TRP:CE2	1:C:1648:LYS:HB2	2.20	0.77
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.20	0.77
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.66	0.77
2:K:1919:ASN:HB2	2:K:1928:VAL:HB	1.66	0.77
2:L:1288:PHE:O	2:L:1292:VAL:HG23	1.84	0.77
2:L:487:ILE:HB	2:L:488:PRO:HD3	1.66	0.77
1:A:1565:PRO:HG3	1:A:1572:TRP:CZ3	2.19	0.77
2:I:1764:MET:HB3	2:I:1780:ILE:HD12	1.66	0.77
2:J:487:ILE:HB	2:J:488:PRO:HD3	1.67	0.77
2:L:1616:VAL:HG11	2:L:1679:LEU:HD12	1.66	0.77
2:L:511:THR:HG22	2:L:512:HIS:HD2	1.45	0.77
1:B:1330:GLU:OE1	1:B:1340:MET:HB3	1.83	0.77
1:B:406:ALA:HA	1:B:439:ARG:HH11	1.48	0.77
2:G:485:ASP:CB	2:G:488:PRO:HD2	2.15	0.77
2:G:501:TRP:HE1	2:G:528:THR:CG2	1.98	0.77
2:I:605:VAL:HB	2:I:628:ILE:HG13	1.64	0.77
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.66	0.77
2:L:501:TRP:HE1	2:L:528:THR:CG2	1.97	0.77
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.67	0.77
1:E:326:ASP:HB3	1:E:333:ARG:HH12	1.48	0.77
2:G:376:ARG:HB3	2:G:394:PRO:HG2	1.65	0.77
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.00	0.77
2:K:590:VAL:HG23	2:K:1091:HIS:NE2	1.98	0.77
1:B:1278:GLY:HA2	1:B:1630:LYS:HE2	1.66	0.77
1:B:868:VAL:HG11	1:B:908:ILE:HD11	1.67	0.77
1:C:1623:THR:HG22	1:C:1633:GLN:HG3	1.66	0.77
1:D:1623:THR:HG22	1:D:1633:GLN:HG3	1.66	0.77
1:D:616:HIS:HA	1:D:633:THR:HG23	1.67	0.77
1:E:72:THR:HB	1:E:74:VAL:HG23	1.66	0.77
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.50	0.77
2:I:420:PRO:HA	2:I:754:PHE:HB3	1.67	0.77
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.38	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.77
1:D:1565:PRO:HG3	1:D:1572:TRP:CZ3	2.20	0.77
1:D:72:THR:HB	1:D:74:VAL:HG23	1.67	0.77
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.67	0.77
2:K:1521:GLU:OE2	2:K:2028:THR:HG22	1.85	0.77
2:K:215:TRP:HE3	2:K:216:ASP:H	1.32	0.77
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.48	0.77
2:L:511:THR:CG2	2:L:512:HIS:CD2	2.68	0.77
1:A:392:ASP:HB3	1:A:395:LYS:HD2	1.67	0.77
1:A:689:ARG:CZ	1:A:1339:GLU:HG2	2.14	0.77
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.49	0.77
2:G:31:LEU:HD13	2:G:75:LEU:HD11	1.68	0.77
2:I:290:VAL:HA	2:I:490:LEU:HD13	1.67	0.77
2:K:814:SER:HB2	3:K:2101:FMN:O3P	1.85	0.77
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.67	0.77
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.01	0.76
1:D:40:ARG:NH2	1:D:74:VAL:HG22	1.99	0.76
1:E:729:ILE:HA	1:E:736:LEU:HD21	1.65	0.76
2:G:616:ASP:OD2	2:G:823:HIS:HE1	1.68	0.76
2:H:1007:LEU:H	2:H:1007:LEU:HD12	1.48	0.76
2:L:410:ALA:HB1	2:L:414:LEU:HD12	1.67	0.76
2:L:698:SER:HB3	2:L:701:VAL:CG2	2.15	0.76
1:A:339:GLN:HE21	1:D:339:GLN:NE2	1.80	0.76
1:E:406:ALA:HA	1:E:439:ARG:HH11	1.51	0.76
1:E:983:GLN:HB3	1:E:1418:ILE:HD13	1.65	0.76
2:H:1265:TYR:CZ	2:H:1267:PRO:HG3	2.21	0.76
2:H:1985:GLN:CG	2:H:1986:PRO:HD3	2.15	0.76
1:C:72:THR:HB	1:C:74:VAL:HG23	1.67	0.76
1:F:1565:PRO:HG3	1:F:1572:TRP:CZ3	2.20	0.76
2:H:511:THR:HG22	2:H:512:HIS:HD2	1.47	0.76
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.66	0.76
2:J:698:SER:HB3	2:J:701:VAL:CG2	2.16	0.76
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.76
2:L:1871:VAL:CG2	2:L:2004:PRO:HD3	2.14	0.76
1:A:1330:GLU:OE1	1:A:1340:MET:HB3	1.86	0.76
1:B:1565:PRO:HG3	1:B:1572:TRP:CZ3	2.20	0.76
1:B:683:THR:HB	1:B:714:PHE:HB3	1.68	0.76
1:C:669:VAL:O	1:C:673:LEU:HD12	1.86	0.76
1:E:422:LEU:HD13	1:E:429:ILE:HG12	1.67	0.76
2:G:1919:ASN:HB2	2:G:1928:VAL:HB	1.67	0.76
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.20	0.76
2:L:1335:PHE:HE1	2:L:1629:ILE:CD1	1.98	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.15	0.76
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.65	0.76
1:A:755:GLU:HG2	1:F:831:GLU:HG2	1.67	0.76
2:G:1265:TYR:CZ	2:G:1267:PRO:HG3	2.21	0.76
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.20	0.76
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.14	0.76
1:D:70:ALA:HB2	2:L:407:LYS:NZ	2.01	0.76
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.65	0.76
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.15	0.76
2:J:468:PRO:CG	2:J:479:ARG:HH21	1.98	0.76
1:E:43:ARG:NH1	2:K:1687:GLN:NE2	2.34	0.76
2:L:215:TRP:HE3	2:L:216:ASP:H	1.32	0.76
1:A:40:ARG:NH2	1:A:74:VAL:HG22	1.98	0.76
1:C:1330:GLU:OE1	1:C:1340:MET:HB3	1.84	0.76
1:C:855:ALA:HA	1:C:919:ARG:HH21	1.51	0.76
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.16	0.76
2:L:396:ILE:HD12	2:L:396:ILE:H	1.48	0.76
1:A:1623:THR:HG22	1:A:1633:GLN:HG3	1.66	0.76
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.64	0.76
1:C:1108:PRO:HG3	1:C:1141:ARG:HE	1.49	0.76
1:A:339:GLN:NE2	1:D:339:GLN:HE21	1.81	0.76
1:E:824:LEU:HB3	1:E:839:ILE:CD1	2.16	0.76
1:F:1108:PRO:HG3	1:F:1141:ARG:HE	1.49	0.76
2:H:1468:ARG:NH1	2:H:1468:ARG:HG2	2.00	0.76
2:K:1007:LEU:HD12	2:K:1007:LEU:H	1.49	0.76
2:K:1468:ARG:NH1	2:K:1468:ARG:HG2	1.98	0.76
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.15	0.76
2:L:1694:PHE:CD2	2:L:1843:ALA:HA	2.21	0.76
1:F:1330:GLU:OE1	1:F:1340:MET:HB3	1.85	0.76
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.00	0.76
1:F:628:TYR:HD1	1:F:629:SER:N	1.84	0.76
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.51	0.76
2:H:914:TRP:NE1	2:H:916:GLY:HA3	1.99	0.76
2:G:1339:GLY:HA2	2:I:376:ARG:HH21	1.50	0.76
1:B:998:GLY:HA3	1:B:1361:VAL:HG13	1.68	0.76
1:B:1686:PRO:HB2	1:B:1713:PHE:CD2	2.21	0.76
1:E:628:TYR:HD1	1:E:629:SER:N	1.84	0.76
2:G:1479:HIS:HD2	2:G:1481:ILE:HG12	1.51	0.76
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.51	0.76
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.67	0.76
2:H:1919:ASN:HB2	2:H:1928:VAL:HB	1.66	0.76
2:H:327:PRO:CD	2:I:1338:ARG:HH21	1.98	0.76
2:I:1479:HIS:HD2	2:I:1481:ILE:HG12	1.51	0.76
2:K:38:PRO:HD3	2:K:104:LEU:HD11	1.68	0.76
1:A:1499:ARG:HD3	1:E:1476:ARG:NH1	2.01	0.75
1:E:947:ASP:O	1:E:951:LEU:HG	1.86	0.75
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.21	0.75
2:J:511:THR:HG22	2:J:512:HIS:HD2	1.52	0.75
1:A:998:GLY:HA3	1:A:1361:VAL:HG13	1.67	0.75
1:B:824:LEU:HB3	1:B:839:ILE:CD1	2.16	0.75
2:G:1764:MET:HB3	2:G:1780:ILE:HD12	1.67	0.75
2:H:158:LEU:HD22	2:H:169:ILE:HD11	1.68	0.75
2:H:215:TRP:HE3	2:H:216:ASP:H	1.31	0.75
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.49	0.75
2:J:1067:LEU:HD13	3:J:2101:FMN:HM72	1.69	0.75
2:K:635:TYR:CG	2:K:641:MET:HG3	2.22	0.75
2:L:1479:HIS:HD2	2:L:1481:ILE:HG12	1.49	0.75
2:L:706:ILE:HG22	2:L:707:GLN:HG2	1.69	0.75
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.21	0.75
1:C:427:ARG:HH12	1:C:492:ILE:CG1	2.00	0.75
1:E:392:ASP:HB3	1:E:395:LYS:HD2	1.67	0.75
1:A:612:ILE:HD12	1:F:579:MET:CE	2.16	0.75
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.69	0.75
2:I:511:THR:CG2	2:I:512:HIS:CD2	2.69	0.75
2:I:590:VAL:HG23	2:I:1091:HIS:NE2	2.00	0.75
2:J:290:VAL:HA	2:J:490:LEU:HD13	1.67	0.75
2:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.21	0.75
2:K:172:ILE:HD11	2:K:501:TRP:HZ2	1.51	0.75
2:L:1468:ARG:HG2	2:L:1468:ARG:NH1	1.97	0.75
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.69	0.75
1:D:1703:VAL:HG11	1:D:1711:LEU:HB3	1.69	0.75
1:E:729:ILE:HA	1:E:736:LEU:CD2	2.15	0.75
2:G:1375:HIS:HE1	2:G:1610:MET:SD	2.09	0.75
2:I:846:THR:HG21	2:I:866:HIS:HD2	1.50	0.75
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	1.84	0.75
1:E:67:ALA:CB	2:J:371:HIS:CE1	2.70	0.75
1:E:962:ASN:ND2	2:K:1006:GLN:HE22	1.80	0.75
2:K:674:ILE:HD13	2:K:705:TYR:CE2	2.21	0.75
2:L:638:ALA:HA	2:L:672:TRP:CZ3	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1517:LEU:HG	2:I:1523:ILE:HD11	1.67	0.75
2:I:487:ILE:HB	2:I:488:PRO:HD3	1.67	0.75
2:J:1499:LYS:HB3	2:J:1505:SER:HB3	1.69	0.75
2:J:327:PRO:CD	2:K:1338:ARG:HH21	1.98	0.75
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.21	0.75
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.67	0.75
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	1.86	0.75
2:J:610:PRO:HD2	3:J:2101:FMN:H6	1.67	0.75
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.69	0.75
2:L:857:VAL:CG1	2:L:876:TRP:NE1	2.50	0.75
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.22	0.75
1:B:1108:PRO:HG3	1:B:1141:ARG:HE	1.52	0.75
1:E:1079:ARG:HH11	1:E:1079:ARG:CG	1.99	0.75
1:E:616:HIS:HA	1:E:633:THR:HG23	1.69	0.75
1:F:72:THR:HB	1:F:74:VAL:HG23	1.69	0.75
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.52	0.75
2:G:465:LEU:O	2:G:479:ARG:HD3	1.86	0.75
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.39	0.75
2:I:172:ILE:HD11	2:I:501:TRP:HZ2	1.52	0.75
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.69	0.75
2:J:38:PRO:HD3	2:J:104:LEU:HD11	1.68	0.75
2:J:750:GLY:HA2	2:J:865:ILE:HG23	1.67	0.75
1:C:616:HIS:HA	1:C:633:THR:HG23	1.68	0.75
1:E:612:ILE:HG12	1:E:628:TYR:CD2	2.20	0.75
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.69	0.75
1:A:831:GLU:HG2	1:F:755:GLU:HG2	1.68	0.75
2:G:1436:ARG:HH22	2:G:1602:LEU:HD21	1.49	0.75
2:H:1299:VAL:HG23	2:H:1301:PHE:CE2	2.22	0.75
2:I:610:PRO:HD2	3:I:2101:FMN:H6	1.69	0.75
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.22	0.75
2:K:1803:THR:HA	2:K:1806:THR:HB	1.68	0.75
2:L:855:ILE:HD13	2:L:856:THR:H	1.52	0.75
1:D:868:VAL:HG11	1:D:908:ILE:HD11	1.69	0.75
1:E:40:ARG:NH2	1:E:74:VAL:HG22	2.01	0.75
1:F:689:ARG:HD2	1:F:1339:GLU:CD	2.06	0.75
2:H:49:LYS:O	2:H:53:LEU:HG	1.86	0.75
2:I:1404:VAL:HG22	2:I:1413:VAL:HG22	1.69	0.75
2:J:1299:VAL:HG23	2:J:1301:PHE:CE2	2.22	0.75
2:L:846:THR:HG21	2:L:866:HIS:HD2	1.50	0.75
2:L:867:LYS:HD3	2:L:1065:CYS:SG	2.27	0.75
1:A:824:LEU:HB3	1:A:839:ILE:CD1	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.67	0.74
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.69	0.74
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.69	0.74
1:F:392:ASP:HB3	1:F:395:LYS:HD2	1.69	0.74
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.68	0.74
2:K:49:LYS:O	2:K:53:LEU:HG	1.85	0.74
1:A:72:THR:HB	1:A:74:VAL:HG23	1.69	0.74
1:B:1490:GLY:O	1:B:1509:THR:HB	1.87	0.74
1:B:1663:LYS:HG2	2:H:1007:LEU:HD11	1.68	0.74
1:F:427:ARG:HH12	1:F:492:ILE:CG1	1.99	0.74
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.39	0.74
2:G:846:THR:HG21	2:G:866:HIS:HD2	1.50	0.74
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	1.87	0.74
2:H:765:TYR:HB2	2:H:805:MET:HE3	1.68	0.74
2:I:1616:VAL:HG11	2:I:1679:LEU:HD12	1.68	0.74
2:K:290:VAL:HA	2:K:490:LEU:HD13	1.70	0.74
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	1.96	0.74
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.69	0.74
1:B:40:ARG:NH2	1:B:74:VAL:HG22	2.03	0.74
1:F:689:ARG:CZ	1:F:1339:GLU:HG2	2.17	0.74
2:H:1335:PHE:CE2	2:H:1345:PRO:HG3	2.21	0.74
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.69	0.74
2:H:468:PRO:CG	2:H:479:ARG:HH21	1.99	0.74
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	1.87	0.74
2:I:1067:LEU:HD13	3:I:2101:FMN:HM72	1.69	0.74
2:J:1517:LEU:HG	2:J:1523:ILE:HD11	1.66	0.74
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.40	0.74
2:K:855:ILE:HD13	2:K:856:THR:H	1.52	0.74
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.47	0.74
2:K:87:VAL:HG21	2:K:102:LEU:HD12	1.69	0.74
2:L:87:VAL:HG21	2:L:102:LEU:HD12	1.69	0.74
2:L:1767:GLU:HB2	2:L:2016:PRO:HG3	1.70	0.74
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.68	0.74
1:D:439:ARG:HA	1:D:705:ARG:HG2	1.68	0.74
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.22	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.69	0.74
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.68	0.74
2:H:855:ILE:HD13	2:H:856:THR:H	1.52	0.74
2:I:465:LEU:O	2:I:479:ARG:HD3	1.87	0.74
2:J:172:ILE:HD11	2:J:501:TRP:HZ2	1.53	0.74
2:L:272:PRO:O	2:L:276:LEU:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:628:TYR:HD1	1:C:629:SER:N	1.86	0.74
1:E:1094:LYS:HE3	1:E:1316:TYR:CD1	2.22	0.74
2:I:38:PRO:HD3	2:I:104:LEU:HD11	1.67	0.74
2:J:1265:TYR:CZ	2:J:1267:PRO:HG3	2.23	0.74
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.16	0.74
2:J:846:THR:HG21	2:J:866:HIS:HD2	1.51	0.74
2:L:1919:ASN:HB2	2:L:1928:VAL:HB	1.69	0.74
1:D:1574:LEU:HD12	1:D:1622:VAL:HG11	1.70	0.74
2:I:1179:GLU:CD	2:I:1179:GLU:H	1.89	0.74
2:J:1919:ASN:HB2	2:J:1928:VAL:HB	1.69	0.74
2:J:49:LYS:O	2:J:53:LEU:HG	1.87	0.74
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.70	0.74
1:A:628:TYR:HD1	1:A:629:SER:N	1.85	0.74
1:A:973:TRP:CE2	1:A:1648:LYS:HB2	2.22	0.74
1:C:1565:PRO:HG3	1:C:1572:TRP:CZ3	2.23	0.74
2:G:605:VAL:HB	2:G:628:ILE:HG13	1.68	0.74
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.01	0.74
2:K:698:SER:HB3	2:K:701:VAL:CG2	2.17	0.74
2:L:31:LEU:HD13	2:L:75:LEU:HD11	1.68	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.68	0.74
2:G:663:ILE:HD13	2:G:666:ASN:HB3	1.70	0.74
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.70	0.74
2:K:1269:ALA:HB1	2:K:1271:TYR:CZ	2.22	0.74
2:K:158:LEU:HD22	2:K:169:ILE:HD11	1.70	0.74
2:K:610:PRO:HD2	3:K:2101:FMN:H6	1.69	0.74
2:L:1594:ARG:CG	2:L:1594:ARG:HH11	1.94	0.74
1:A:616:HIS:HA	1:A:633:THR:HG23	1.70	0.74
1:A:983:GLN:HB3	1:A:1418:ILE:HD13	1.70	0.74
1:C:1703:VAL:CG1	1:C:1711:LEU:HB3	2.18	0.74
1:E:30:GLU:HB2	2:K:2045:ALA:HB1	1.70	0.74
1:E:683:THR:HB	1:E:714:PHE:HB3	1.69	0.74
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.68	0.74
2:H:38:PRO:HD3	2:H:104:LEU:HD11	1.70	0.74
2:J:1867:MET:O	2:J:2003:VAL:HG21	1.88	0.74
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.70	0.74
1:A:540:LYS:HG3	1:A:608:LYS:N	2.03	0.74
1:B:1214:HIS:HD2	1:B:1216:SER:OG	1.70	0.74
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.70	0.74
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	1.99	0.74
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.70	0.74
1:D:406:ALA:HA	1:D:439:ARG:HH11	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:868:VAL:HG11	1:E:908:ILE:HD11	1.68	0.74
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.70	0.74
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.70	0.74
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.69	0.74
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.67	0.74
2:K:616:ASP:OD2	2:K:823:HIS:HE1	1.71	0.74
1:A:1278:GLY:HA2	1:A:1630:LYS:HE2	1.68	0.73
1:E:964:LYS:O	1:E:966:PRO:HD3	1.88	0.73
2:G:1960:MET:HB3	2:G:1964:ASP:HB2	1.70	0.73
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.00	0.73
2:I:1123:ALA:HB3	2:I:1126:GLU:HG3	1.69	0.73
2:I:1499:LYS:HB3	2:I:1505:SER:HB3	1.68	0.73
2:I:22:ARG:HG3	2:I:39:THR:HA	1.69	0.73
2:I:49:LYS:O	2:I:53:LEU:HG	1.87	0.73
2:K:600:VAL:HG13	2:K:601:PRO:HD2	1.70	0.73
2:L:38:PRO:HD3	2:L:104:LEU:HD11	1.69	0.73
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.22	0.73
1:A:868:VAL:HG11	1:A:908:ILE:HD11	1.68	0.73
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.71	0.73
1:D:628:TYR:HD1	1:D:629:SER:N	1.86	0.73
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.51	0.73
2:H:2032:PRO:O	2:H:2036:ILE:HG13	1.89	0.73
2:H:610:PRO:HD2	3:H:2101:FMN:H6	1.69	0.73
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.70	0.73
2:I:87:VAL:HG21	2:I:102:LEU:HD12	1.69	0.73
2:I:1610:MET:HE2	2:I:1610:MET:HA	1.69	0.73
2:J:663:ILE:HD13	2:J:666:ASN:HB3	1.70	0.73
2:K:765:TYR:HB2	2:K:805:MET:HE3	1.69	0.73
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.69	0.73
1:F:947:ASP:O	1:F:951:LEU:HG	1.88	0.73
2:J:87:VAL:HG21	2:J:102:LEU:HD12	1.68	0.73
2:K:1299:VAL:HG23	2:K:1301:PHE:CE2	2.23	0.73
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.38	0.73
2:H:511:THR:CG2	2:H:512:HIS:CD2	2.71	0.73
2:I:1468:ARG:NH1	2:I:1468:ARG:HG2	1.98	0.73
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.70	0.73
2:L:1436:ARG:HH22	2:L:1602:LEU:HD21	1.52	0.73
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.19	0.73
1:D:947:ASP:O	1:D:951:LEU:HG	1.88	0.73
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:49:LYS:O	2:G:53:LEU:HG	1.89	0.73
2:J:1007:LEU:H	2:J:1007:LEU:HD12	1.53	0.73
2:J:1442:TYR:HA	2:J:1445:THR:HG22	1.69	0.73
2:K:272:PRO:O	2:K:276:LEU:HB2	1.88	0.73
2:K:396:ILE:H	2:K:396:ILE:HD12	1.54	0.73
1:C:998:GLY:HA3	1:C:1361:VAL:HG13	1.71	0.73
1:E:407:ARG:NH1	1:E:1606:VAL:HG23	2.04	0.73
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.02	0.73
2:I:31:LEU:HD13	2:I:75:LEU:HD11	1.71	0.73
2:I:855:ILE:HD13	2:I:856:THR:H	1.53	0.73
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.53	0.73
1:A:669:VAL:O	1:A:673:LEU:HD12	1.89	0.73
1:B:371:GLN:HG2	1:E:372:LEU:HD11	1.71	0.73
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.70	0.73
1:D:1443:LEU:O	1:D:1447:VAL:HG23	1.88	0.73
2:G:1468:ARG:NH1	2:G:1468:ARG:HG2	1.98	0.73
2:G:698:SER:HB3	2:G:701:VAL:CG2	2.17	0.73
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.23	0.73
2:H:752:HIS:HE1	2:H:847:TYR:CE2	2.07	0.73
2:I:1919:ASN:HB2	2:I:1928:VAL:HB	1.69	0.73
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.70	0.73
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.04	0.73
1:F:1217:GLU:O	1:F:1299:ALA:HB1	1.89	0.73
2:G:1067:LEU:HD13	3:G:2101:FMN:HM72	1.69	0.73
2:H:31:LEU:HD13	2:H:75:LEU:HD11	1.69	0.73
2:I:1265:TYR:CZ	2:I:1267:PRO:HG3	2.24	0.73
2:J:1694:PHE:CD2	2:J:1843:ALA:HA	2.24	0.73
2:J:501:TRP:HE1	2:J:528:THR:CG2	1.99	0.73
2:L:1067:LEU:HD13	3:L:2101:FMN:HM72	1.70	0.73
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.69	0.73
1:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.70	0.73
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	1.89	0.73
2:H:471:ASP:HB3	2:H:474:THR:O	1.88	0.73
2:I:663:ILE:HD13	2:I:666:ASN:HB3	1.70	0.73
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.23	0.73
2:J:955:LEU:HD21	2:J:1026:LYS:HB3	1.71	0.73
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.71	0.73
2:J:471:ASP:HB3	2:J:474:THR:O	1.88	0.73
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.71	0.73
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.89	0.73
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.72	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:998:GLY:HA3	1:F:1361:VAL:HG13	1.70	0.73
2:G:1694:PHE:CE2	2:G:1843:ALA:HA	2.24	0.73
2:I:1694:PHE:CE2	2:I:1843:ALA:HA	2.24	0.73
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	1.71	0.73
2:J:1335:PHE:CE2	2:J:1345:PRO:HG3	2.24	0.73
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.52	0.73
2:K:752:HIS:HE1	2:K:847:TYR:CE2	2.07	0.73
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.70	0.73
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.70	0.72
1:F:683:THR:HB	1:F:714:PHE:HB3	1.70	0.72
2:H:87:VAL:HG21	2:H:102:LEU:HD12	1.70	0.72
2:J:272:PRO:O	2:J:276:LEU:HB2	1.89	0.72
2:J:221:TYR:HE1	2:J:320:LEU:HD13	1.54	0.72
2:L:1335:PHE:CE2	2:L:1345:PRO:HG3	2.24	0.72
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.50	0.72
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.89	0.72
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.70	0.72
2:G:855:ILE:HD13	2:G:856:THR:H	1.53	0.72
2:H:1436:ARG:HH22	2:H:1602:LEU:HD21	1.53	0.72
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.51	0.72
2:H:1952:ASP:O	2:H:1956:LEU:HG	1.89	0.72
2:I:1289:TYR:CG	2:I:1370:LEU:HD23	2.23	0.72
2:I:1694:PHE:CD2	2:I:1843:ALA:HA	2.23	0.72
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.70	0.72
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.24	0.72
2:J:1694:PHE:CE2	2:J:1843:ALA:HA	2.24	0.72
2:K:31:LEU:HD13	2:K:75:LEU:HD11	1.69	0.72
2:L:174:GLY:H	2:L:517:GLY:HA3	1.54	0.72
2:L:193:TYR:HD2	2:L:263:ILE:HD13	1.54	0.72
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.71	0.72
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.72
2:G:290:VAL:HA	2:G:490:LEU:HD13	1.71	0.72
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.71	0.72
2:I:698:SER:HB3	2:I:701:VAL:CG2	2.18	0.72
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.72	0.72
2:K:193:TYR:HD2	2:K:263:ILE:HD13	1.55	0.72
2:K:503:THR:O	2:K:506:VAL:HG12	1.89	0.72
1:C:339:GLN:HE21	1:E:339:GLN:NE2	1.82	0.72
1:D:998:GLY:HA3	1:D:1361:VAL:HG13	1.69	0.72
1:D:41:THR:HG22	2:J:1689:VAL:HG12	1.72	0.72
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.70	0.72
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.71	0.72
2:K:1499:LYS:HB3	2:K:1505:SER:HB3	1.70	0.72
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.24	0.72
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.23	0.72
2:G:44:GLN:O	2:G:48:LEU:HG	1.90	0.72
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.72
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.69	0.72
2:J:771:CYS:HB3	2:J:774:ILE:HD12	1.71	0.72
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.71	0.72
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.72	0.72
1:E:533:SER:O	1:E:611:THR:HA	1.90	0.72
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.25	0.72
2:J:174:GLY:H	2:J:517:GLY:HA3	1.55	0.72
2:J:855:ILE:HD13	2:J:856:THR:H	1.54	0.72
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.02	0.72
2:L:1410:GLY:HA3	2:L:1436:ARG:HA	1.70	0.72
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.02	0.72
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.89	0.72
2:G:221:TYR:HE1	2:G:320:LEU:HD13	1.54	0.72
2:G:38:PRO:HD3	2:G:104:LEU:HD11	1.71	0.72
2:G:765:TYR:HB2	2:G:805:MET:HE3	1.71	0.72
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.71	0.72
2:J:215:TRP:HE3	2:J:216:ASP:H	1.30	0.72
2:L:1499:LYS:HB3	2:L:1505:SER:HB3	1.72	0.72
2:L:471:ASP:HB3	2:L:474:THR:O	1.88	0.72
1:B:964:LYS:O	1:B:966:PRO:HD3	1.90	0.72
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.05	0.72
1:E:689:ARG:HH21	1:E:1591:ASN:ND2	1.87	0.72
1:F:407:ARG:NH1	1:F:1606:VAL:HG23	2.04	0.72
2:H:814:SER:HB2	3:H:2101:FMN:O3P	1.89	0.72
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.23	0.72
2:J:1468:ARG:HG2	2:J:1468:ARG:NH1	1.97	0.72
2:J:765:TYR:HB2	2:J:805:MET:HE3	1.70	0.72
2:K:221:TYR:HE1	2:K:320:LEU:HD13	1.54	0.72
2:L:1179:GLU:H	2:L:1179:GLU:CD	1.92	0.72
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.54	0.72
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.72	0.72
1:F:673:LEU:O	1:F:678:ALA:HB3	1.89	0.72
2:J:1952:ASP:O	2:J:1956:LEU:HG	1.90	0.72
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1330:GLU:OE1	1:E:1340:MET:HB3	1.90	0.72
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.70	0.72
2:G:503:THR:O	2:G:506:VAL:HG12	1.88	0.72
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.72	0.72
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	1.72	0.72
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.71	0.72
2:I:1179:GLU:HA	2:I:1190:ASN:HB2	1.72	0.72
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.20	0.72
2:I:752:HIS:HE1	2:I:847:TYR:CE2	2.08	0.72
2:I:616:ASP:OD2	2:I:823:HIS:HE1	1.72	0.72
2:J:1269:ALA:HB1	2:J:1271:TYR:CZ	2.24	0.72
2:J:44:GLN:O	2:J:48:LEU:HG	1.89	0.72
2:K:468:PRO:CD	2:K:479:ARG:HH21	2.03	0.72
2:L:1123:ALA:HB3	2:L:1126:GLU:CG	2.17	0.72
2:L:49:LYS:O	2:L:53:LEU:HG	1.90	0.72
1:A:1273:ILE:HD11	1:E:1630:LYS:HD2	1.71	0.71
1:C:1443:LEU:O	1:C:1447:VAL:HG23	1.89	0.71
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.04	0.71
2:H:43:PHE:CD2	2:I:22:ARG:HG2	2.25	0.71
2:I:1335:PHE:CE2	2:I:1345:PRO:HG3	2.24	0.71
2:J:31:LEU:HD13	2:J:75:LEU:HD11	1.70	0.71
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.72	0.71
2:K:511:THR:HG22	2:K:512:HIS:HD2	1.51	0.71
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.69	0.71
2:L:610:PRO:HD2	3:L:2101:FMN:H6	1.69	0.71
1:A:1108:PRO:HG3	1:A:1141:ARG:HE	1.53	0.71
1:A:855:ALA:HA	1:A:919:ARG:HH21	1.56	0.71
2:G:1335:PHE:CE2	2:G:1345:PRO:HG3	2.25	0.71
2:I:1288:PHE:O	2:I:1292:VAL:HG23	1.90	0.71
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.19	0.71
2:J:752:HIS:HE1	2:J:847:TYR:CE2	2.08	0.71
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.89	0.71
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	1.71	0.71
1:A:1230:SER:HA	1:A:1311:GLN:HE22	1.55	0.71
1:C:1142:LEU:HD12	1:C:1142:LEU:H	1.55	0.71
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.25	0.71
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.72	0.71
2:I:129:ILE:HG23	2:I:132:LYS:H	1.55	0.71
2:I:193:TYR:HD2	2:I:263:ILE:HD13	1.55	0.71
2:L:1803:THR:HA	2:L:1806:THR:HB	1.70	0.71
1:B:689:ARG:NE	1:B:1339:GLU:HG2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1079:ARG:HH11	1:F:1079:ARG:CG	2.02	0.71
1:F:689:ARG:NE	1:F:1339:GLU:HG2	2.05	0.71
1:F:999:LEU:HD21	1:F:1575:ASN:OD1	1.90	0.71
2:G:1269:ALA:HB1	2:G:1271:TYR:CZ	2.25	0.71
2:I:1299:VAL:HG23	2:I:1301:PHE:CE2	2.24	0.71
2:J:2032:PRO:O	2:J:2036:ILE:HG13	1.90	0.71
1:A:406:ALA:HA	1:A:439:ARG:HH11	1.54	0.71
1:C:1230:SER:HA	1:C:1311:GLN:HE22	1.54	0.71
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.71	0.71
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.56	0.71
1:F:930:GLN:HA	1:F:933:ILE:HD12	1.72	0.71
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.72	0.71
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.53	0.71
2:K:1335:PHE:CE2	2:K:1345:PRO:HG3	2.26	0.71
2:K:81:ALA:HB2	2:K:139:ALA:HA	1.72	0.71
2:L:221:TYR:HE1	2:L:320:LEU:HD13	1.54	0.71
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.72	0.71
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.20	0.71
1:B:947:ASP:O	1:B:951:LEU:HG	1.90	0.71
1:B:983:GLN:HB3	1:B:1418:ILE:HD13	1.71	0.71
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.74	0.71
1:F:964:LYS:O	1:F:966:PRO:HD3	1.90	0.71
2:G:87:VAL:HG21	2:G:102:LEU:HD12	1.71	0.71
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.71
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.73	0.71
2:J:2008:THR:O	2:J:2011:ARG:HB2	1.90	0.71
2:L:1120:ILE:CD1	2:L:1167:ASN:O	2.38	0.71
1:F:1230:SER:HA	1:F:1311:GLN:HE22	1.56	0.71
2:G:752:HIS:HE1	2:G:847:TYR:CE2	2.09	0.71
2:H:129:ILE:HG23	2:H:132:LYS:H	1.54	0.71
2:H:290:VAL:HA	2:H:490:LEU:HD13	1.73	0.71
2:I:503:THR:O	2:I:506:VAL:HG12	1.91	0.71
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	1.72	0.71
2:K:1960:MET:HB3	2:K:1964:ASP:HB2	1.71	0.71
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.73	0.71
2:L:1694:PHE:CE2	2:L:1843:ALA:HA	2.25	0.71
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.89	0.71
1:B:1230:SER:HA	1:B:1311:GLN:HE22	1.56	0.71
1:B:831:GLU:HG2	1:E:755:GLU:HG2	1.71	0.71
1:C:965:TYR:CZ	1:C:1199:LEU:HD22	2.26	0.71
1:C:406:ALA:HA	1:C:439:ARG:HH11	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.26	0.71
1:E:973:TRP:CE2	1:E:1648:LYS:HB2	2.25	0.71
1:E:930:GLN:HA	1:E:933:ILE:HD12	1.72	0.71
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.71	0.71
2:I:221:TYR:HE1	2:I:320:LEU:HD13	1.54	0.71
2:J:1179:GLU:CD	2:J:1179:GLU:H	1.94	0.71
2:L:1223:SER:HB2	2:L:1226:ALA:HB3	1.72	0.71
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.73	0.71
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.71	0.71
1:B:1142:LEU:H	1:B:1142:LEU:HD12	1.55	0.71
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.54	0.71
1:B:999:LEU:HD21	1:B:1575:ASN:OD1	1.91	0.71
1:D:474:ILE:O	1:D:478:LYS:HG3	1.91	0.71
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.26	0.71
2:H:663:ILE:HD13	2:H:666:ASN:HB3	1.72	0.71
2:I:2008:THR:O	2:I:2011:ARG:HB2	1.91	0.71
2:K:174:GLY:H	2:K:517:GLY:HA3	1.55	0.71
2:K:1780:ILE:HG23	2:K:1869:VAL:HG11	1.73	0.71
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.89	0.71
2:L:22:ARG:HG3	2:L:39:THR:HA	1.71	0.71
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.73	0.70
1:B:406:ALA:HA	1:B:439:ARG:NH1	2.05	0.70
1:B:474:ILE:O	1:B:478:LYS:HG3	1.91	0.70
2:H:1179:GLU:H	2:H:1179:GLU:CD	1.94	0.70
2:I:771:CYS:HB3	2:I:774:ILE:HD12	1.73	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.90	0.70
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.25	0.70
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.54	0.70
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.90	0.70
1:C:1476:ARG:NH1	1:F:1499:ARG:HD3	2.05	0.70
1:E:1230:SER:HA	1:E:1311:GLN:HE22	1.55	0.70
2:H:1694:PHE:CE2	2:H:1843:ALA:HA	2.27	0.70
2:I:174:GLY:H	2:I:517:GLY:HA3	1.56	0.70
2:K:854:VAL:HG21	2:K:1070:PRO:HA	1.74	0.70
1:E:1565:PRO:HG3	1:E:1572:TRP:CZ3	2.26	0.70
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.72	0.70
2:H:1694:PHE:CD2	2:H:1843:ALA:HA	2.26	0.70
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.74	0.70
2:J:814:SER:HB2	3:J:2101:FMN:O3P	1.90	0.70
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:GLN:HE21	1:F:339:GLN:HE21	1.38	0.70
1:B:612:ILE:HG23	1:B:628:TYR:CE2	2.26	0.70
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.26	0.70
2:G:511:THR:CG2	2:G:512:HIS:CD2	2.72	0.70
2:H:1288:PHE:O	2:H:1292:VAL:HG23	1.91	0.70
2:H:22:ARG:HG3	2:H:39:THR:HA	1.74	0.70
2:I:1269:ALA:HB1	2:I:1271:TYR:CZ	2.25	0.70
2:I:193:TYR:CD2	2:I:263:ILE:HD13	2.26	0.70
2:L:1952:ASP:O	2:L:1956:LEU:HG	1.91	0.70
1:A:999:LEU:HD21	1:A:1575:ASN:OD1	1.91	0.70
1:C:947:ASP:O	1:C:951:LEU:HG	1.92	0.70
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.73	0.70
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.20	0.70
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.91	0.70
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.37	0.70
2:J:376:ARG:HB3	2:J:394:PRO:HG2	1.73	0.70
1:A:30:GLU:HB2	2:G:2045:ALA:CB	2.21	0.70
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.56	0.70
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.57	0.70
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.74	0.70
1:E:1610:ARG:CG	1:E:1610:ARG:HH11	1.91	0.70
2:G:1299:VAL:HG23	2:G:1301:PHE:CE2	2.27	0.70
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.75	0.70
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.72	0.70
2:K:663:ILE:HD13	2:K:666:ASN:HB3	1.73	0.70
2:K:783:GLY:HA3	2:K:1075:TYR:HB3	1.72	0.70
1:A:574:ILE:HG23	1:A:579:MET:CB	2.22	0.70
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.73	0.70
1:C:474:ILE:O	1:C:478:LYS:HG3	1.92	0.70
1:C:633:THR:HG22	1:C:637:LEU:HD12	1.73	0.70
2:H:752:HIS:HE1	2:H:847:TYR:HE2	1.39	0.70
2:H:771:CYS:HB3	2:H:774:ILE:HD12	1.73	0.70
2:I:1729:ASN:O	2:I:1757:ILE:HG23	1.91	0.70
2:I:1803:THR:HA	2:I:1806:THR:HB	1.73	0.70
2:I:1952:ASP:O	2:I:1956:LEU:HG	1.91	0.70
2:J:752:HIS:HE1	2:J:847:TYR:HE2	1.39	0.70
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.03	0.70
1:B:1149:LEU:HB2	1:D:1149:LEU:HB2	1.74	0.70
1:E:532:ILE:HG21	1:E:907:PHE:HB2	1.73	0.70
2:I:1436:ARG:HH22	2:I:1602:LEU:HD21	1.57	0.70
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	1.91	0.70
1:D:964:LYS:O	1:D:966:PRO:HD3	1.92	0.70
1:B:557:ARG:HD2	1:E:557:ARG:O	1.92	0.70
1:E:741:ASP:OD1	1:E:793:ARG:HD3	1.92	0.70
2:G:685:VAL:HG23	2:G:1186:ARG:HH12	1.55	0.70
2:H:600:VAL:HG13	2:H:601:PRO:HD2	1.74	0.70
2:I:584:SER:HB2	2:I:1114:GLU:HA	1.74	0.70
2:I:1335:PHE:HE1	2:I:1629:ILE:CD1	2.04	0.70
2:K:57:PRO:CG	2:K:68:GLU:HG3	2.21	0.70
2:L:1269:ALA:HB1	2:L:1271:TYR:CZ	2.27	0.70
2:G:783:GLY:HA3	2:G:1075:TYR:HB3	1.74	0.70
2:H:272:PRO:O	2:H:276:LEU:HB2	1.91	0.70
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.74	0.70
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.73	0.70
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.73	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.27	0.70
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.74	0.70
1:B:1547:ARG:HG2	1:B:1604:TYR:HD1	1.57	0.69
2:H:1223:SER:HB2	2:H:1226:ALA:HB3	1.74	0.69
2:J:608:MET:H	2:J:612:THR:HB	1.55	0.69
2:K:129:ILE:HG23	2:K:132:LYS:H	1.56	0.69
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.07	0.69
2:L:290:VAL:HA	2:L:490:LEU:HD13	1.73	0.69
1:A:947:ASP:O	1:A:951:LEU:HG	1.91	0.69
1:B:777:LEU:O	1:B:781:ILE:HG13	1.91	0.69
1:C:689:ARG:HD2	1:C:1339:GLU:CD	2.12	0.69
1:D:741:ASP:OD1	1:D:793:ARG:HD3	1.92	0.69
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.92	0.69
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.72	0.69
1:A:47:ILE:HB	2:G:1694:PHE:CD1	2.27	0.69
2:G:964:ARG:O	2:G:967:GLU:HB2	1.92	0.69
2:G:967:GLU:HG2	2:G:1000:TYR:CE1	2.27	0.69
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.56	0.69
2:K:2008:THR:O	2:K:2011:ARG:HB2	1.92	0.69
2:K:594:MET:HB3	2:K:808:ASP:O	1.92	0.69
1:E:954:ARG:HA	2:K:981:GLN:OE1	1.92	0.69
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.73	0.69
1:C:682:VAL:HG11	1:C:695:TYR:HE2	1.56	0.69
1:E:67:ALA:HB1	2:J:371:HIS:CE1	2.26	0.69
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.92	0.69
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:129:ILE:HG23	2:J:132:LYS:H	1.57	0.69
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.72	0.69
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.73	0.69
2:K:1156:ASP:HB3	2:K:1158:ASP:H	1.57	0.69
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.73	0.69
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.22	0.69
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.75	0.69
2:I:1156:ASP:HB3	2:I:1158:ASP:H	1.57	0.69
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.92	0.69
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.28	0.69
2:L:1299:VAL:HG23	2:L:1301:PHE:CE2	2.28	0.69
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	1.74	0.69
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.74	0.69
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.50	0.69
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.28	0.69
1:D:1443:LEU:CD1	1:D:1470:ARG:HB3	2.22	0.69
2:H:1299:VAL:HG23	2:H:1301:PHE:HE2	1.58	0.69
2:H:698:SER:HB3	2:H:701:VAL:CG2	2.22	0.69
2:I:1478:GLN:HG3	2:I:1479:HIS:H	1.57	0.69
2:K:766:SER:O	2:K:770:LYS:HG3	1.92	0.69
2:K:771:CYS:HB3	2:K:774:ILE:HD12	1.73	0.69
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.27	0.69
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.93	0.69
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.58	0.69
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.07	0.69
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.27	0.69
2:G:193:TYR:HD2	2:G:263:ILE:HD13	1.58	0.69
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.74	0.69
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.03	0.69
2:H:43:PHE:CB	2:I:22:ARG:CZ	2.71	0.69
2:I:938:MET:HE2	2:I:959:THR:HG22	1.74	0.69
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.22	0.69
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.74	0.69
2:K:595:SER:HB3	2:K:602:PRO:CG	2.19	0.69
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.27	0.69
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.03	0.69
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.69
2:J:384:ASN:HB3	2:J:527:LEU:HD11	1.74	0.69
2:K:868:LEU:O	2:K:870:THR:HG23	1.92	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69
2:I:384:ASN:CB	2:I:527:LEU:HD11	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.75	0.69
2:K:955:LEU:HD21	2:K:1026:LYS:HB3	1.74	0.69
2:L:2008:THR:O	2:L:2011:ARG:HB2	1.91	0.69
1:A:1697:LEU:O	1:A:1699:PRO:HD3	1.92	0.69
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.22	0.69
1:F:406:ALA:HA	1:F:439:ARG:HH11	1.58	0.69
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.27	0.69
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.75	0.69
2:I:44:GLN:O	2:I:48:LEU:HG	1.92	0.69
2:K:529:ASN:HD22	2:K:552:VAL:HG22	1.57	0.69
2:K:865:ILE:HG21	2:K:867:LYS:HE3	1.73	0.69
2:L:2032:PRO:O	2:L:2036:ILE:HG13	1.93	0.69
2:L:752:HIS:HE1	2:L:847:TYR:CE2	2.11	0.69
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.28	0.69
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.01	0.69
1:A:930:GLN:HA	1:A:933:ILE:HD12	1.74	0.69
1:B:669:VAL:O	1:B:673:LEU:HD12	1.93	0.69
1:C:983:GLN:HB3	1:C:1418:ILE:HD13	1.74	0.69
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.75	0.69
2:G:1694:PHE:CD2	2:G:1843:ALA:HA	2.27	0.69
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.40	0.69
2:I:1472:TRP:HB3	2:I:1530:TYR:HB2	1.75	0.69
2:K:22:ARG:HG3	2:K:39:THR:HA	1.75	0.69
2:L:193:TYR:CD2	2:L:263:ILE:HD13	2.27	0.69
2:L:376:ARG:HB3	2:L:394:PRO:HG2	1.75	0.69
2:L:503:THR:O	2:L:506:VAL:HG12	1.93	0.69
1:A:965:TYR:CZ	1:A:1199:LEU:HD22	2.28	0.69
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.28	0.69
1:F:427:ARG:NH1	1:F:492:ILE:CG1	2.56	0.69
2:G:814:SER:HB2	3:G:2101:FMN:O3P	1.93	0.69
2:J:1179:GLU:HA	2:J:1190:ASN:HB2	1.75	0.69
2:J:503:THR:O	2:J:506:VAL:HG12	1.93	0.69
2:K:752:HIS:HE1	2:K:847:TYR:HE2	1.39	0.69
2:L:663:ILE:HD13	2:L:666:ASN:HB3	1.74	0.69
1:C:930:GLN:HA	1:C:933:ILE:HD12	1.75	0.68
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.75	0.68
1:F:40:ARG:NH2	1:F:74:VAL:HG22	2.07	0.68
2:G:174:GLY:H	2:G:517:GLY:HA3	1.57	0.68
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.33	0.68
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.74	0.68
2:J:1479:HIS:CD2	2:J:1481:ILE:HG12	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:193:TYR:CD2	2:K:263:ILE:HD13	2.28	0.68
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.58	0.68
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.08	0.68
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.58	0.68
1:C:1705:GLN:NE2	1:C:1709:GLY:HA2	2.07	0.68
2:J:1478:GLN:HG3	2:J:1479:HIS:H	1.58	0.68
1:A:1032:MET:CE	1:A:1165:PRO:HB3	2.22	0.68
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.29	0.68
1:C:911:LEU:O	1:C:915:MET:HG3	1.94	0.68
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.27	0.68
1:D:973:TRP:CE2	1:D:1648:LYS:HB2	2.27	0.68
1:E:557:ARG:NH1	1:E:557:ARG:CG	2.53	0.68
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.74	0.68
2:H:503:THR:O	2:H:506:VAL:HG12	1.92	0.68
2:H:616:ASP:OD2	2:H:823:HIS:HE1	1.75	0.68
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.75	0.68
2:J:1803:THR:HA	2:J:1806:THR:HB	1.75	0.68
2:J:250:PHE:HB2	2:J:251:PRO:HD3	1.75	0.68
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.26	0.68
2:K:775:VAL:O	2:K:777:VAL:HG23	1.94	0.68
2:H:221:TYR:HE1	2:H:320:LEU:HD13	1.57	0.68
2:H:955:LEU:HD21	2:H:1026:LYS:HB3	1.75	0.68
2:K:1952:ASP:O	2:K:1956:LEU:HG	1.93	0.68
1:A:474:ILE:O	1:A:478:LYS:HG3	1.93	0.68
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.28	0.68
1:B:1476:ARG:NH1	1:D:1499:ARG:HD3	2.06	0.68
1:C:673:LEU:O	1:C:678:ALA:HB3	1.94	0.68
1:D:527:ALA:HB2	1:D:637:LEU:CD2	2.21	0.68
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.58	0.68
1:E:1211:LYS:O	1:E:1702:ARG:HD3	1.94	0.68
1:E:406:ALA:HA	1:E:439:ARG:NH1	2.07	0.68
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.06	0.68
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.76	0.68
1:A:372:LEU:HD11	1:F:371:GLN:HG2	1.75	0.68
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.09	0.68
1:D:1230:SER:HA	1:D:1311:GLN:HE22	1.58	0.68
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.08	0.68
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.29	0.68
2:G:22:ARG:HG3	2:G:39:THR:HA	1.75	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:HA	1.75	0.68
2:H:1478:GLN:HG3	2:H:1479:HIS:H	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:272:PRO:O	2:I:276:LEU:HB2	1.93	0.68
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.74	0.68
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.76	0.68
2:J:938:MET:HE2	2:J:959:THR:HG22	1.74	0.68
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.59	0.68
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.76	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.58	0.68
1:A:1574:LEU:HD12	1:A:1622:VAL:HG11	1.74	0.68
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.76	0.68
1:B:930:GLN:HA	1:B:933:ILE:HD12	1.75	0.68
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.27	0.68
1:D:907:PHE:O	1:D:909:PRO:HD3	1.93	0.68
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.28	0.68
1:F:534:GLN:HA	1:F:534:GLN:OE1	1.93	0.68
2:G:1179:GLU:CD	2:G:1179:GLU:H	1.97	0.68
2:G:468:PRO:CD	2:G:479:ARG:HH21	2.06	0.68
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.58	0.68
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.75	0.68
2:G:789:TYR:HB3	2:G:790:PRO:HD3	1.76	0.68
2:H:1499:LYS:HB3	2:H:1505:SER:HB3	1.74	0.68
2:I:1551:ILE:HG12	2:I:1552:GLU:H	1.58	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:J:584:SER:HB2	2:J:1114:GLU:HA	1.75	0.68
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	1.75	0.68
2:K:1694:PHE:CD2	2:K:1843:ALA:HA	2.28	0.68
2:K:1868:GLN:HG2	2:K:1873:ARG:HH22	1.57	0.68
2:K:293:ALA:HA	2:K:469:VAL:HG21	1.75	0.68
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.76	0.68
2:L:1593:SER:OG	2:L:1596:PHE:HB2	1.94	0.68
2:L:845:ASN:HB3	2:L:851:THR:OG1	1.93	0.68
1:C:1574:LEU:HD12	1:C:1622:VAL:HG11	1.74	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.03	0.68
2:G:272:PRO:O	2:G:276:LEU:HB2	1.93	0.68
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	1.75	0.68
2:K:1179:GLU:H	2:K:1179:GLU:CD	1.97	0.68
2:K:1610:MET:HE2	2:K:1610:MET:HA	1.76	0.68
2:K:875:PHE:CD1	2:K:905:LYS:HD3	2.29	0.68
2:L:1179:GLU:HA	2:L:1190:ASN:HB2	1.76	0.68
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.76	0.68
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:532:ILE:CG2	1:E:907:PHE:CB	2.71	0.68
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.76	0.68
2:H:2008:THR:O	2:H:2011:ARG:HB2	1.94	0.68
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.05	0.68
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.68
1:B:973:TRP:CE2	1:B:1648:LYS:HB2	2.29	0.68
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.09	0.68
1:E:999:LEU:HD21	1:E:1575:ASN:OD1	1.91	0.68
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.09	0.68
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.74	0.68
2:G:1007:LEU:H	2:G:1007:LEU:HD12	1.58	0.68
2:G:1952:ASP:O	2:G:1956:LEU:HG	1.94	0.68
2:H:174:GLY:H	2:H:517:GLY:HA3	1.58	0.68
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.75	0.68
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.08	0.68
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.76	0.68
2:J:1472:TRP:HB3	2:J:1530:TYR:HB2	1.76	0.68
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.76	0.68
2:K:1868:GLN:HG2	2:K:1873:ARG:NH2	2.09	0.68
2:L:1200:ARG:H	2:L:1200:ARG:HD3	1.59	0.68
2:L:129:ILE:HG23	2:L:132:LYS:H	1.59	0.68
2:L:616:ASP:OD2	2:L:823:HIS:HE1	1.77	0.68
1:C:372:LEU:HD11	1:D:371:GLN:HG2	1.76	0.67
1:E:474:ILE:O	1:E:478:LYS:HG3	1.94	0.67
1:F:983:GLN:HB3	1:F:1418:ILE:HD13	1.76	0.67
2:G:1478:GLN:HG3	2:G:1479:HIS:H	1.58	0.67
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.75	0.67
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.29	0.67
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.77	0.67
2:H:43:PHE:CB	2:I:22:ARG:NE	2.57	0.67
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.29	0.67
2:K:584:SER:HB2	2:K:1114:GLU:HA	1.74	0.67
2:K:1442:TYR:O	2:K:1445:THR:HG22	1.93	0.67
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.29	0.67
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.24	0.67
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.94	0.67
1:B:828:TRP:HE1	1:B:838:THR:HA	1.60	0.67
1:D:1702:ARG:NH1	1:D:1702:ARG:CG	2.48	0.67
1:F:2:ARG:HD2	1:F:5:VAL:HG21	1.76	0.67
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.75	0.67
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1223:SER:HB2	2:K:1226:ALA:HB3	1.76	0.67
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.75	0.67
1:C:1448:ALA:HA	1:C:1451:LYS:HD2	1.77	0.67
1:C:999:LEU:HD21	1:C:1575:ASN:OD1	1.94	0.67
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.76	0.67
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.29	0.67
2:G:1499:LYS:HB3	2:G:1505:SER:HB3	1.74	0.67
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.76	0.67
2:H:1551:ILE:HG12	2:H:1552:GLU:H	1.58	0.67
2:I:1948:MET:HA	2:I:1948:MET:CE	2.25	0.67
2:J:1868:GLN:HG2	2:J:1873:ARG:NH2	2.09	0.67
2:J:511:THR:CG2	2:J:512:HIS:CD2	2.76	0.67
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.75	0.67
2:K:511:THR:CG2	2:K:512:HIS:CD2	2.76	0.67
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.75	0.67
2:L:1867:MET:O	2:L:2003:VAL:HG21	1.94	0.67
1:A:983:GLN:O	1:A:1418:ILE:HD11	1.95	0.67
1:B:1514:ILE:O	1:B:1547:ARG:NH1	2.27	0.67
1:B:1574:LEU:HD12	1:B:1622:VAL:HG11	1.76	0.67
1:D:406:ALA:HA	1:D:439:ARG:NH1	2.10	0.67
1:E:967:PHE:CG	1:E:1374:PRO:HG3	2.29	0.67
2:G:2032:PRO:O	2:G:2036:ILE:HG13	1.93	0.67
2:J:1868:GLN:HG2	2:J:1873:ARG:HH22	1.60	0.67
2:J:250:PHE:HA	2:J:287:GLN:NE2	2.09	0.67
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.77	0.67
2:K:1694:PHE:CE2	2:K:1843:ALA:HA	2.29	0.67
2:L:955:LEU:HD21	2:L:1026:LYS:HB3	1.76	0.67
1:A:408:GLN:HE22	1:A:1609:SER:H	1.41	0.67
1:A:533:SER:O	1:A:611:THR:HA	1.95	0.67
1:C:1389:ILE:CG1	1:F:1268:SER:HB3	2.08	0.67
2:H:81:ALA:HB2	2:H:139:ALA:HA	1.76	0.67
2:I:876:TRP:CH2	2:I:1043:LYS:HB2	2.28	0.67
2:I:1888:PRO:HB3	2:I:1895:PHE:HD1	1.60	0.67
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.76	0.67
2:K:1179:GLU:HA	2:K:1190:ASN:HB2	1.77	0.67
2:K:2032:PRO:O	2:K:2036:ILE:HG13	1.94	0.67
2:K:44:GLN:O	2:K:48:LEU:HG	1.94	0.67
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	1.76	0.67
2:L:1764:MET:HB3	2:L:1780:ILE:HD12	1.75	0.67
2:L:765:TYR:HB2	2:L:805:MET:HE3	1.77	0.67
1:A:1443:LEU:CD1	1:A:1470:ARG:HB3	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.25	0.67
1:D:557:ARG:HG3	1:D:557:ARG:NH1	1.99	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.28	0.67
1:F:1443:LEU:CD1	1:F:1470:ARG:HB3	2.25	0.67
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.58	0.67
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.75	0.67
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.76	0.67
1:D:47:ILE:HB	2:J:1694:PHE:CD1	2.29	0.67
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.25	0.67
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.30	0.67
2:L:44:GLN:O	2:L:48:LEU:HG	1.94	0.67
1:A:673:LEU:O	1:A:678:ALA:HB3	1.94	0.67
1:B:18:LEU:HD21	2:H:1844:LEU:HD11	1.77	0.67
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.29	0.67
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	1.95	0.67
1:D:999:LEU:HD21	1:D:1575:ASN:OD1	1.94	0.67
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.76	0.67
1:E:1443:LEU:CD1	1:E:1470:ARG:HB3	2.25	0.67
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.59	0.67
1:F:911:LEU:O	1:F:915:MET:HG3	1.95	0.67
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.10	0.67
2:K:1888:PRO:HB3	2:K:1895:PHE:HD1	1.60	0.67
2:L:1888:PRO:HB3	2:L:1895:PHE:HD1	1.58	0.67
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.22	0.67
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.77	0.67
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.60	0.67
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.30	0.67
2:I:845:ASN:HB3	2:I:851:THR:OG1	1.93	0.67
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.75	0.67
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.77	0.67
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.13	0.67
1:B:1211:LYS:O	1:B:1702:ARG:HD3	1.95	0.67
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.76	0.67
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.30	0.67
1:D:2:ARG:HD2	1:D:5:VAL:HG21	1.76	0.67
2:G:955:LEU:HD21	2:G:1026:LYS:HB3	1.76	0.67
2:H:21:LEU:HD22	2:H:36:LEU:HD22	1.77	0.67
2:H:44:GLN:O	2:H:48:LEU:HG	1.94	0.67
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	1.76	0.67
2:J:595:SER:HB3	2:J:602:PRO:CG	2.22	0.67
2:K:1436:ARG:NH2	2:K:1602:LEU:HD21	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:938:MET:HE2	2:K:959:THR:HG22	1.76	0.67
2:L:1335:PHE:HE1	2:L:1629:ILE:HD13	1.58	0.67
2:L:1472:TRP:HB3	2:L:1530:TYR:HB2	1.75	0.67
2:L:1602:LEU:HD13	2:L:1606:ILE:HD12	1.77	0.67
1:A:1078:ILE:HD13	1:A:1352:MET:HG2	1.76	0.67
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.10	0.67
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.75	0.67
2:G:129:ILE:HG23	2:G:132:LYS:H	1.59	0.67
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.77	0.67
2:H:1156:ASP:HB3	2:H:1158:ASP:H	1.60	0.67
2:I:752:HIS:HE1	2:I:847:TYR:HE2	1.41	0.67
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.25	0.67
2:K:486:ILE:HG22	2:K:490:LEU:HG	1.76	0.67
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.75	0.66
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.75	0.66
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.76	0.66
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.25	0.66
1:E:967:PHE:CE2	1:E:1374:PRO:HG3	2.29	0.66
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.09	0.66
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.10	0.66
2:I:2032:PRO:O	2:I:2036:ILE:HG13	1.95	0.66
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.94	0.66
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.75	0.66
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.75	0.66
2:L:1094:HIS:O	2:L:1098:LEU:HB2	1.95	0.66
1:A:1268:SER:HB3	1:E:1389:ILE:CG1	2.11	0.66
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.59	0.66
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.30	0.66
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.60	0.66
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.76	0.66
2:H:1097:PHE:HD2	2:H:1100:ARG:HH12	1.43	0.66
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.75	0.66
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.08	0.66
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.95	0.66
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.11	0.66
1:C:1211:LYS:O	1:C:1702:ARG:HD3	1.94	0.66
1:C:406:ALA:HA	1:C:439:ARG:NH1	2.09	0.66
1:D:422:LEU:HB3	1:D:429:ILE:HD11	1.77	0.66
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.60	0.66
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.26	0.66
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1179:GLU:HA	2:G:1190:ASN:HB2	1.77	0.66
2:G:193:TYR:CD2	2:G:263:ILE:HD13	2.29	0.66
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.29	0.66
2:H:930:THR:CG2	2:H:933:GLU:H	2.09	0.66
2:I:1223:SER:HB2	2:I:1226:ALA:HB3	1.78	0.66
2:I:471:ASP:HB3	2:I:474:THR:O	1.95	0.66
2:J:1299:VAL:HG23	2:J:1301:PHE:HE2	1.58	0.66
2:J:22:ARG:HG3	2:J:39:THR:HA	1.76	0.66
2:K:440:HIS:HD2	2:K:497:ASP:O	1.78	0.66
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.76	0.66
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.77	0.66
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	1.78	0.66
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.76	0.66
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.60	0.66
1:D:911:LEU:O	1:D:915:MET:HG3	1.96	0.66
1:E:1638:HIS:ND1	1:E:1639:PRO:HD2	2.11	0.66
1:E:1510:TRP:CZ3	1:E:1642:LEU:HA	2.31	0.66
2:G:1918:VAL:HG13	2:G:2006:HIS:CB	2.22	0.66
2:J:1053:ILE:HD12	2:J:1061:VAL:HG22	1.76	0.66
2:J:1602:LEU:HD13	2:J:1606:ILE:HD12	1.78	0.66
1:A:532:ILE:HG22	1:A:907:PHE:CB	2.26	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.30	0.66
1:C:534:GLN:HG3	1:C:610:GLU:O	1.95	0.66
1:E:911:LEU:O	1:E:915:MET:HG3	1.94	0.66
2:J:964:ARG:O	2:J:967:GLU:HB2	1.96	0.66
2:K:1472:TRP:HB3	2:K:1530:TYR:HB2	1.78	0.66
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.95	0.66
2:K:794:GLY:O	2:K:804:PRO:HA	1.96	0.66
2:L:461:PRO:HD2	2:L:464:SER:OG	1.95	0.66
1:B:1443:LEU:CD1	1:B:1470:ARG:HB3	2.25	0.66
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.60	0.66
1:D:1705:GLN:HE21	1:D:1709:GLY:HA2	1.61	0.66
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.61	0.66
1:E:673:LEU:O	1:E:678:ALA:HB3	1.94	0.66
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.78	0.66
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.77	0.66
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.78	0.66
2:L:1289:TYR:HB2	2:L:1370:LEU:HD23	1.78	0.66
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.75	0.66
2:L:582:LYS:HG3	2:L:1110:VAL:HG11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:970:LEU:HD21	1:A:1658:VAL:HG11	1.78	0.66
1:A:964:LYS:O	1:A:966:PRO:HD3	1.96	0.66
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.52	0.66
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.31	0.66
1:F:1443:LEU:O	1:F:1447:VAL:HG23	1.96	0.66
2:G:35:PHE:CZ	2:G:105:ILE:HD13	2.30	0.66
2:G:1948:MET:HA	2:G:1948:MET:CE	2.24	0.66
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.25	0.66
2:G:635:TYR:CG	2:G:641:MET:HG3	2.31	0.66
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.77	0.66
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.78	0.66
2:H:762:LEU:HD22	2:H:802:TYR:CD2	2.28	0.66
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.77	0.66
2:L:584:SER:HB2	2:L:1114:GLU:HA	1.77	0.66
2:L:594:MET:HB3	2:L:808:ASP:O	1.95	0.66
2:L:789:TYR:HB3	2:L:790:PRO:HD3	1.77	0.66
1:A:70:ALA:HB2	2:I:407:LYS:HZ1	1.60	0.66
1:C:1364:THR:HG22	1:C:1366:GLN:H	1.61	0.66
1:C:828:TRP:HE1	1:C:838:THR:HA	1.60	0.66
1:D:18:LEU:HD21	2:J:1844:LEU:HD11	1.77	0.66
1:D:682:VAL:HG11	1:D:695:TYR:HE2	1.61	0.66
1:E:1573:MET:HE2	1:E:1622:VAL:HG23	1.77	0.66
1:E:997:THR:CG2	1:E:1361:VAL:HG22	2.26	0.66
2:G:1468:ARG:CB	2:G:1468:ARG:HH11	2.08	0.66
2:G:2008:THR:O	2:G:2011:ARG:HB2	1.96	0.66
2:H:1948:MET:CE	2:H:1948:MET:HA	2.25	0.66
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.77	0.66
2:I:1602:LEU:HD13	2:I:1606:ILE:HD12	1.78	0.66
2:J:272:PRO:HD3	2:J:301:TRP:CE2	2.31	0.66
1:E:67:ALA:HB3	2:J:371:HIS:CE1	2.30	0.66
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.95	0.66
2:K:1019:LEU:O	2:K:1022:ARG:HG2	1.96	0.66
2:L:1156:ASP:HB3	2:L:1158:ASP:H	1.61	0.66
2:L:1478:GLN:HG3	2:L:1479:HIS:H	1.60	0.66
1:E:1001:GLU:O	1:E:1007:ASN:HA	1.96	0.66
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.31	0.66
1:F:535:TYR:HB3	1:F:540:LYS:HG3	1.76	0.66
2:G:1346:MET:HB2	2:G:1427:MET:HE3	1.78	0.66
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.26	0.66
2:I:635:TYR:CG	2:I:641:MET:HG3	2.30	0.66
2:K:1479:HIS:CD2	2:K:1481:ILE:HG12	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1551:ILE:HG12	2:K:1552:GLU:H	1.60	0.66
1:B:427:ARG:NH1	1:B:492:ILE:HG13	2.11	0.66
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.31	0.66
1:D:828:TRP:HE1	1:D:838:THR:HA	1.60	0.66
1:D:962:ASN:HD22	2:J:1006:GLN:HE22	1.42	0.66
1:F:47:ILE:HB	2:L:1694:PHE:CD1	2.31	0.66
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.78	0.66
2:H:35:PHE:CZ	2:H:105:ILE:HD13	2.30	0.66
2:H:1602:LEU:HD13	2:H:1606:ILE:HD12	1.76	0.66
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.26	0.66
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.78	0.66
2:I:1641:GLY:HA3	2:I:1678:VAL:HA	1.78	0.66
2:H:47:GLN:HG3	2:I:23:PRO:HG2	1.78	0.66
2:I:783:GLY:HA3	2:I:1075:TYR:HB3	1.77	0.66
2:J:1299:VAL:CG2	2:J:1301:PHE:HE2	2.09	0.66
2:K:77:ALA:O	2:K:139:ALA:HB1	1.96	0.66
2:L:2015:LYS:HB2	2:L:2016:PRO:HD3	1.77	0.66
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.94	0.65
1:C:1183:VAL:HG11	1:C:1187:THR:HG21	1.77	0.65
1:C:1217:GLU:O	1:C:1299:ALA:HB1	1.97	0.65
1:E:1697:LEU:O	1:E:1699:PRO:HD3	1.96	0.65
1:E:439:ARG:HA	1:E:705:ARG:HG2	1.76	0.65
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.78	0.65
1:F:777:LEU:O	1:F:781:ILE:HG13	1.97	0.65
2:G:461:PRO:HD2	2:G:464:SER:OG	1.96	0.65
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.06	0.65
2:H:1299:VAL:CG2	2:H:1301:PHE:HE2	2.08	0.65
2:H:1888:PRO:HB3	2:H:1895:PHE:HD1	1.61	0.65
2:I:21:LEU:HD22	2:I:36:LEU:HD22	1.79	0.65
2:J:81:ALA:HB2	2:J:139:ALA:HA	1.76	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.31	0.65
2:J:762:LEU:HD22	2:J:802:TYR:CD2	2.27	0.65
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.77	0.65
2:L:783:GLY:HA3	2:L:1075:TYR:HB3	1.77	0.65
2:L:1442:TYR:HA	2:L:1445:THR:HG22	1.78	0.65
2:L:1335:PHE:CE1	2:L:1629:ILE:HD11	2.31	0.65
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.27	0.65
1:A:1496:ARG:CZ	1:E:1297:GLY:HA2	2.26	0.65
1:B:562:SER:HB3	1:E:551:LEU:HD21	1.77	0.65
1:C:440:SER:HB3	1:C:481:LEU:HD23	1.77	0.65
1:D:777:LEU:O	1:D:781:ILE:HG13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.12	0.65
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.31	0.65
2:J:1551:ILE:HG12	2:J:1552:GLU:H	1.60	0.65
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.26	0.65
2:J:903:ILE:HD11	2:J:914:TRP:CE2	2.31	0.65
2:K:876:TRP:CH2	2:K:1043:LYS:HB2	2.32	0.65
2:K:1478:GLN:HG3	2:K:1479:HIS:H	1.61	0.65
2:K:608:MET:H	2:K:612:THR:HB	1.60	0.65
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.30	0.65
2:L:468:PRO:CD	2:L:479:ARG:HH21	2.08	0.65
2:L:486:ILE:HG22	2:L:490:LEU:HG	1.77	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.10	0.65
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.32	0.65
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.30	0.65
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.31	0.65
1:E:777:LEU:O	1:E:781:ILE:HG13	1.95	0.65
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	1.78	0.65
1:F:613:PRO:O	1:F:614:PHE:HB2	1.96	0.65
2:G:1888:PRO:HB3	2:G:1895:PHE:HD1	1.62	0.65
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.77	0.65
2:H:1946:LEU:HD22	2:H:1951:ILE:HD13	1.77	0.65
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.78	0.65
2:J:876:TRP:CH2	2:J:1043:LYS:HB2	2.30	0.65
2:K:1094:HIS:O	2:K:1098:LEU:HB2	1.96	0.65
2:K:1602:LEU:HD13	2:K:1606:ILE:HD12	1.78	0.65
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.77	0.65
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.32	0.65
1:D:1217:GLU:O	1:D:1299:ALA:HB1	1.96	0.65
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.11	0.65
1:D:1448:ALA:HA	1:D:1451:LYS:HD2	1.76	0.65
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.78	0.65
1:F:1142:LEU:HD12	1:F:1142:LEU:H	1.59	0.65
2:H:584:SER:HB2	2:H:1114:GLU:HA	1.78	0.65
2:H:1468:ARG:CB	2:H:1468:ARG:HH11	2.09	0.65
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.62	0.65
2:J:1156:ASP:HB3	2:J:1158:ASP:H	1.62	0.65
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.09	0.65
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.25	0.65
2:K:1200:ARG:H	2:K:1200:ARG:HD3	1.60	0.65
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.79	0.65
2:L:1551:ILE:HG12	2:L:1552:GLU:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:752:HIS:HE1	2:L:847:TYR:HE2	1.43	0.65
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.79	0.65
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.77	0.65
1:D:433:CYS:O	1:D:437:MET:HG3	1.97	0.65
1:D:440:SER:HB3	1:D:481:LEU:HD23	1.78	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.77	0.65
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.60	0.65
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.65
2:H:1335:PHE:HE1	2:H:1629:ILE:CD1	2.09	0.65
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.95	0.65
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.27	0.65
2:J:35:PHE:CZ	2:J:105:ILE:HD13	2.32	0.65
2:J:1115:TYR:OH	2:J:1173:HIS:HD2	1.80	0.65
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.79	0.65
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.78	0.65
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.12	0.65
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.78	0.65
2:L:485:ASP:HB3	2:L:488:PRO:CD	2.27	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:CE2	2.31	0.65
1:B:440:SER:HB3	1:B:481:LEU:HD23	1.79	0.65
1:B:1499:ARG:CD	1:D:1476:ARG:NH1	2.58	0.65
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.62	0.65
1:D:542:GLN:HB3	1:D:579:MET:CE	2.26	0.65
1:D:580:ASN:O	1:D:584:ILE:HG13	1.96	0.65
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.12	0.65
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.62	0.65
2:H:635:TYR:CG	2:H:641:MET:HG3	2.32	0.65
2:I:1551:ILE:HG12	2:I:1552:GLU:N	2.12	0.65
2:I:1750:GLY:O	2:I:1755:LYS:HE3	1.97	0.65
2:I:594:MET:HB3	2:I:808:ASP:O	1.96	0.65
2:J:67:ASP:HA	2:J:132:LYS:HE2	1.78	0.65
2:L:1335:PHE:CE1	2:L:1629:ILE:CD1	2.79	0.65
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.30	0.65
1:A:406:ALA:HA	1:A:439:ARG:NH1	2.11	0.65
1:A:532:ILE:CG2	1:A:907:PHE:HB2	2.25	0.65
1:B:340:LEU:HD21	1:E:340:LEU:HD21	1.79	0.65
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.78	0.65
1:D:31:THR:HG23	2:J:2040:ILE:HG21	1.76	0.65
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.78	0.65
2:I:1468:ARG:HH11	2:I:1468:ARG:CB	2.08	0.65
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.31	0.65
2:L:771:CYS:HB3	2:L:774:ILE:HD12	1.77	0.65
1:C:831:GLU:HG2	1:D:755:GLU:CG	2.25	0.65
1:E:1217:GLU:O	1:E:1299:ALA:HB1	1.97	0.65
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.97	0.65
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.06	0.65
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.78	0.65
2:H:1094:HIS:O	2:H:1098:LEU:HB2	1.97	0.65
2:I:468:PRO:CD	2:I:479:ARG:HH21	2.10	0.65
2:J:1948:MET:CE	2:J:1948:MET:HA	2.27	0.65
2:J:616:ASP:OD2	2:J:823:HIS:HE1	1.78	0.65
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.32	0.65
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.32	0.65
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.79	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.61	0.65
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.62	0.65
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.97	0.65
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.27	0.65
2:G:771:CYS:HB3	2:G:774:ILE:HD12	1.78	0.65
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.32	0.65
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.61	0.65
2:H:865:ILE:HG21	2:H:867:LYS:HE3	1.79	0.65
2:H:903:ILE:HD11	2:H:914:TRP:CE2	2.32	0.65
2:I:1200:ARG:HD3	2:I:1200:ARG:H	1.61	0.65
2:K:1468:ARG:CB	2:K:1468:ARG:HH11	2.09	0.65
2:L:595:SER:HB3	2:L:602:PRO:CG	2.26	0.65
2:L:766:SER:O	2:L:770:LYS:HG3	1.97	0.65
1:B:1224:SER:HB2	1:B:1307:PHE:O	1.97	0.65
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.27	0.65
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.79	0.65
1:C:427:ARG:NH1	1:C:492:ILE:CG1	2.59	0.65
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.32	0.65
1:D:669:VAL:O	1:D:673:LEU:HD12	1.97	0.65
1:E:1108:PRO:HG3	1:E:1141:ARG:NE	2.11	0.65
1:E:1574:LEU:HD12	1:E:1622:VAL:HG11	1.77	0.65
2:G:1602:LEU:HD13	2:G:1606:ILE:HD12	1.78	0.65
2:H:2059:HIS:ND1	2:H:2067:ILE:HG22	2.11	0.65
2:H:964:ARG:O	2:H:967:GLU:HB2	1.96	0.65
2:I:608:MET:H	2:I:612:THR:HB	1.61	0.65
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	1.79	0.65
1:D:29:ILE:HD11	2:J:1922:VAL:C	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.79	0.65
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.78	0.65
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.27	0.65
2:L:876:TRP:CH2	2:L:1043:LYS:HB2	2.32	0.65
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.50	0.64
1:A:1630:LYS:HD2	1:E:1273:ILE:HD11	1.78	0.64
2:G:1478:GLN:HG3	2:G:1479:HIS:N	2.13	0.64
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.79	0.64
2:H:1179:GLU:HA	2:H:1190:ASN:HB2	1.79	0.64
2:H:486:ILE:HG22	2:H:490:LEU:HG	1.78	0.64
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.32	0.64
2:I:1097:PHE:HD2	2:I:1100:ARG:HH12	1.45	0.64
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.32	0.64
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.32	0.64
2:J:1223:SER:HB2	2:J:1226:ALA:HB3	1.79	0.64
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.79	0.64
2:J:594:MET:HB3	2:J:808:ASP:O	1.96	0.64
2:K:2059:HIS:ND1	2:K:2067:ILE:HG22	2.12	0.64
2:K:915:PHE:CD2	2:K:915:PHE:O	2.50	0.64
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.06	0.64
1:A:1217:GLU:O	1:A:1299:ALA:HB1	1.96	0.64
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.78	0.64
1:B:1448:ALA:HA	1:B:1451:LYS:HD2	1.78	0.64
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.62	0.64
1:C:371:GLN:HG2	1:D:372:LEU:HD11	1.79	0.64
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.78	0.64
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.77	0.64
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.32	0.64
1:F:1702:ARG:NH1	1:F:1702:ARG:CG	2.49	0.64
2:G:1687:GLN:O	2:G:1828:GLN:NE2	2.31	0.64
2:H:1472:TRP:HB3	2:H:1530:TYR:HB2	1.79	0.64
2:I:663:ILE:HD12	2:I:663:ILE:H	1.63	0.64
1:D:43:ARG:NH1	2:J:1687:GLN:HE21	1.95	0.64
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.78	0.64
2:J:865:ILE:HG21	2:J:867:LYS:HE3	1.79	0.64
2:K:1299:VAL:HG23	2:K:1301:PHE:HE2	1.61	0.64
2:K:1948:MET:HA	2:K:1948:MET:CE	2.26	0.64
2:K:752:HIS:CE1	2:K:847:TYR:HE2	2.16	0.64
2:L:1468:ARG:HH11	2:L:1468:ARG:CB	2.10	0.64
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.79	0.64
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1078:ILE:HB	1:D:1338:GLY:CA	2.27	0.64
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.24	0.64
1:F:406:ALA:HA	1:F:439:ARG:NH1	2.12	0.64
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.27	0.64
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.27	0.64
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.26	0.64
2:H:1479:HIS:CD2	2:H:1481:ILE:HG12	2.31	0.64
2:I:76:VAL:O	2:I:80:ILE:HG13	1.97	0.64
2:I:915:PHE:O	2:I:915:PHE:CD2	2.50	0.64
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	1.97	0.64
2:J:1478:GLN:HG3	2:J:1479:HIS:N	2.13	0.64
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.32	0.64
2:K:1750:GLY:O	2:K:1755:LYS:HE3	1.97	0.64
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.64
2:L:81:ALA:HB2	2:L:139:ALA:HA	1.79	0.64
1:A:1001:GLU:O	1:A:1007:ASN:HA	1.97	0.64
1:A:1364:THR:HG22	1:A:1366:GLN:H	1.62	0.64
1:A:989:ASN:N	1:A:1491:ASN:HD21	1.82	0.64
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.62	0.64
1:B:811:ASP:HB3	1:B:814:TYR:HB3	1.80	0.64
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.32	0.64
1:C:1443:LEU:CD1	1:C:1470:ARG:HB3	2.27	0.64
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.12	0.64
1:F:855:ALA:HA	1:F:919:ARG:NH2	2.08	0.64
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.28	0.64
2:H:305:ALA:O	2:H:309:LYS:HD3	1.98	0.64
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.58	0.64
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.98	0.64
2:J:21:LEU:HD22	2:J:36:LEU:HD22	1.78	0.64
2:J:635:TYR:CG	2:J:641:MET:HG3	2.33	0.64
2:K:511:THR:CG2	2:K:512:HIS:HD2	2.09	0.64
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	1.97	0.64
1:F:30:GLU:HB2	2:L:2045:ALA:HB1	1.78	0.64
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.12	0.64
1:B:1697:LEU:O	1:B:1699:PRO:HD3	1.97	0.64
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.97	0.64
1:C:1705:GLN:HE21	1:C:1709:GLY:HA2	1.63	0.64
1:C:2:ARG:HD2	1:C:5:VAL:HG21	1.79	0.64
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	1.96	0.64
1:F:907:PHE:O	1:F:909:PRO:HD3	1.98	0.64
2:G:600:VAL:HG22	2:G:601:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.78	0.64
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.63	0.64
2:J:1468:ARG:CB	2:J:1468:ARG:HH11	2.09	0.64
2:J:193:TYR:HD2	2:J:263:ILE:HD13	1.63	0.64
2:K:250:PHE:HA	2:K:287:GLN:NE2	2.12	0.64
2:L:1479:HIS:CD2	2:L:1481:ILE:HG12	2.32	0.64
1:A:1214:HIS:CD2	1:A:1216:SER:OG	2.47	0.64
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.80	0.64
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.31	0.64
1:C:964:LYS:O	1:C:966:PRO:HD3	1.98	0.64
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.28	0.64
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.53	0.64
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.97	0.64
1:E:843:VAL:HG13	1:E:900:ASP:HA	1.80	0.64
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.98	0.64
2:G:584:SER:HB2	2:G:1114:GLU:HA	1.79	0.64
2:H:1115:TYR:HB3	2:H:1267:PRO:HB3	1.79	0.64
2:H:1551:ILE:HG12	2:H:1552:GLU:N	2.13	0.64
2:I:2005:PHE:CB	2:I:2010:LEU:HD11	2.28	0.64
2:K:1551:ILE:HG12	2:K:1552:GLU:N	2.12	0.64
2:K:1946:LEU:HD22	2:K:1951:ILE:HD13	1.78	0.64
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.33	0.64
2:K:67:ASP:HA	2:K:132:LYS:HE2	1.79	0.64
2:L:2059:HIS:ND1	2:L:2067:ILE:HG22	2.12	0.64
1:A:1209:PHE:CE2	1:A:1301:VAL:HG21	2.32	0.64
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.28	0.64
1:A:532:ILE:CG2	1:A:907:PHE:HB3	2.26	0.64
1:B:1703:VAL:CG1	1:B:1711:LEU:HB3	2.27	0.64
1:B:422:LEU:HB3	1:B:429:ILE:HD11	1.79	0.64
1:B:741:ASP:OD1	1:B:793:ARG:HD3	1.98	0.64
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.32	0.64
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.64
1:F:474:ILE:O	1:F:478:LYS:HG3	1.98	0.64
2:G:1019:LEU:O	2:G:1022:ARG:HG2	1.97	0.64
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	1.80	0.64
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.97	0.64
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.64
2:H:468:PRO:CD	2:H:479:ARG:HH21	2.11	0.64
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	1.98	0.64
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.79	0.64
2:I:158:LEU:HD22	2:I:169:ILE:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.77	0.64
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.64
2:L:1551:ILE:HG12	2:L:1552:GLU:N	2.13	0.64
2:L:635:TYR:CG	2:L:641:MET:HG3	2.33	0.64
1:A:1310:PHE:CE1	1:A:1315:SER:HB2	2.33	0.64
1:B:1107:GLU:HG3	1:B:1108:PRO:HD2	1.79	0.64
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.33	0.64
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.80	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:N	2.13	0.64
2:H:1478:GLN:HG3	2:H:1479:HIS:N	2.11	0.64
2:I:1299:VAL:HG23	2:I:1301:PHE:HE2	1.59	0.64
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.27	0.64
2:K:493:MET:HA	2:K:497:ASP:HB2	1.78	0.64
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.79	0.64
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.62	0.64
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.79	0.64
1:B:554:ARG:O	1:B:555:GLN:HG3	1.98	0.64
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.28	0.64
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.61	0.64
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.79	0.64
1:D:1211:LYS:O	1:D:1702:ARG:HD3	1.98	0.64
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.80	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:H	1.61	0.64
2:G:595:SER:HB3	2:G:602:PRO:CG	2.25	0.64
2:H:193:TYR:CD2	2:H:263:ILE:HD13	2.33	0.64
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.79	0.64
2:I:1946:LEU:HD22	2:I:1951:ILE:HD13	1.78	0.64
2:I:726:GLN:O	2:I:730:ILE:HG12	1.98	0.64
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.80	0.64
2:L:827:GLN:H	2:L:827:GLN:NE2	1.96	0.64
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.79	0.64
1:A:1432:ILE:HD11	1:A:1481:GLN:HB3	1.80	0.64
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.79	0.64
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.78	0.64
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	1.79	0.64
2:G:930:THR:CG2	2:G:933:GLU:H	2.10	0.64
2:H:193:TYR:HD2	2:H:263:ILE:HD13	1.62	0.64
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.80	0.64
2:I:1442:TYR:HA	2:I:1445:THR:HG22	1.78	0.64
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.33	0.64
2:L:1019:LEU:O	2:L:1022:ARG:HG2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.63	0.64
2:L:1641:GLY:HA3	2:L:1678:VAL:HA	1.79	0.64
2:L:1948:MET:CE	2:L:1948:MET:HA	2.28	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.61	0.64
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.32	0.63
1:B:911:LEU:O	1:B:915:MET:HG3	1.98	0.63
1:E:1018:GLY:HA2	1:E:1590:ARG:NH2	2.13	0.63
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.58	0.63
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.28	0.63
1:F:1364:THR:HG22	1:F:1366:GLN:H	1.63	0.63
2:H:1848:ALA:HA	2:H:2034:LYS:HD3	1.79	0.63
2:I:1299:VAL:CG2	2:I:1301:PHE:HE2	2.11	0.63
2:I:1335:PHE:CE1	2:I:1629:ILE:HD11	2.34	0.63
2:J:1551:ILE:HG12	2:J:1552:GLU:N	2.14	0.63
2:J:549:ASN:HD22	2:J:550:THR:N	1.97	0.63
2:K:1299:VAL:CG2	2:K:1301:PHE:HE2	2.10	0.63
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.61	0.63
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.28	0.63
2:L:663:ILE:HD12	2:L:663:ILE:H	1.63	0.63
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.13	0.63
1:A:70:ALA:HB2	2:I:407:LYS:NZ	2.13	0.63
1:B:1106:LEU:HD23	1:B:1107:GLU:H	1.62	0.63
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.33	0.63
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.13	0.63
1:F:1448:ALA:HA	1:F:1451:LYS:HD2	1.79	0.63
1:F:1573:MET:HE2	1:F:1622:VAL:HG23	1.80	0.63
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.80	0.63
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.51	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.62	0.63
2:I:1478:GLN:HG3	2:I:1479:HIS:N	2.12	0.63
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.26	0.63
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.28	0.63
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.13	0.63
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.28	0.63
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.27	0.63
2:L:762:LEU:HD22	2:L:802:TYR:CD2	2.28	0.63
1:A:777:LEU:O	1:A:781:ILE:HG13	1.98	0.63
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.62	0.63
1:B:1432:ILE:HD11	1:B:1481:GLN:HB3	1.81	0.63
1:B:956:ILE:HA	2:H:977:PRO:HA	1.81	0.63
1:D:689:ARG:NH1	1:D:1339:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.78	0.63
1:D:930:GLN:HA	1:D:933:ILE:HD12	1.80	0.63
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.32	0.63
1:E:433:CYS:O	1:E:437:MET:HG3	1.99	0.63
1:C:1499:ARG:HD3	1:F:1476:ARG:NH1	2.13	0.63
2:G:1053:ILE:HD12	2:G:1061:VAL:HG22	1.80	0.63
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	1.98	0.63
2:G:486:ILE:HG22	2:G:490:LEU:HG	1.78	0.63
2:G:938:MET:HE2	2:G:959:THR:HG22	1.80	0.63
2:H:1200:ARG:H	2:H:1200:ARG:HD3	1.63	0.63
2:H:67:ASP:HA	2:H:132:LYS:HE2	1.81	0.63
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.63	0.63
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.80	0.63
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.14	0.63
2:L:1299:VAL:CG2	2:L:1301:PHE:HE2	2.11	0.63
1:A:422:LEU:HB3	1:A:429:ILE:HD11	1.80	0.63
1:B:992:LYS:HE2	1:D:1495:ARG:NH1	2.14	0.63
1:C:12:THR:O	1:C:16:GLU:HG2	1.99	0.63
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.64	0.63
1:D:580:ASN:ND2	1:D:582:SER:HB2	2.14	0.63
1:E:682:VAL:HG11	1:E:695:TYR:HE2	1.64	0.63
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.78	0.63
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.06	0.63
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.79	0.63
2:G:608:MET:H	2:G:612:THR:HB	1.62	0.63
2:H:876:TRP:CH2	2:H:1043:LYS:HB2	2.34	0.63
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	2.13	0.63
2:H:250:PHE:HA	2:H:287:GLN:NE2	2.14	0.63
2:H:752:HIS:CE1	2:H:847:TYR:HE2	2.16	0.63
2:I:1224:GLN:HG3	2:I:1578:GLU:OE2	1.98	0.63
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.63
2:I:2059:HIS:ND1	2:I:2067:ILE:HG22	2.14	0.63
2:I:35:PHE:CZ	2:I:105:ILE:HD13	2.33	0.63
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.13	0.63
2:J:1593:SER:OG	2:J:1596:PHE:HB2	1.98	0.63
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.28	0.63
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.99	0.63
1:A:427:ARG:HH12	1:A:492:ILE:HG12	1.62	0.63
1:B:1505:GLY:O	1:B:1509:THR:HG23	1.99	0.63
1:B:18:LEU:HD21	2:H:1844:LEU:CD1	2.28	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.80	0.63
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.33	0.63
1:E:612:ILE:HG12	1:E:628:TYR:HE2	1.62	0.63
1:A:533:SER:HA	1:F:579:MET:HE1	1.80	0.63
2:G:1094:HIS:O	2:G:1098:LEU:HB2	1.99	0.63
2:G:979:LEU:HD21	2:G:999:ALA:HB3	1.80	0.63
2:H:979:LEU:HD21	2:H:999:ALA:HB3	1.81	0.63
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.33	0.63
2:J:1094:HIS:O	2:J:1098:LEU:HB2	1.97	0.63
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.25	0.63
2:L:1371:LEU:O	2:L:1590:ILE:HD11	1.99	0.63
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.28	0.63
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.79	0.63
2:L:35:PHE:CZ	2:L:105:ILE:HD13	2.34	0.63
1:D:1463:GLU:O	1:D:1467:LEU:HB2	1.98	0.63
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.81	0.63
2:G:81:ALA:HB2	2:G:139:ALA:HA	1.80	0.63
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.80	0.63
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.28	0.63
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.80	0.63
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.80	0.63
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.33	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.64	0.63
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.80	0.63
1:E:1432:ILE:HD11	1:E:1481:GLN:HB3	1.81	0.63
1:F:669:VAL:O	1:F:673:LEU:HD12	1.98	0.63
2:I:955:LEU:HD21	2:I:1026:LYS:HB3	1.81	0.63
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.81	0.63
2:I:250:PHE:HA	2:I:287:GLN:NE2	2.13	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.64	0.63
2:J:290:VAL:HG11	2:J:315:LEU:HD13	1.79	0.63
2:J:752:HIS:CE1	2:J:847:TYR:HE2	2.16	0.63
2:L:1097:PHE:HD2	2:L:1100:ARG:HH12	1.47	0.63
2:L:1299:VAL:HG23	2:L:1301:PHE:HE2	1.63	0.63
2:L:138:ARG:HB3	2:L:192:THR:HG23	1.81	0.63
2:L:903:ILE:HD11	2:L:914:TRP:CE2	2.34	0.63
1:A:1078:ILE:HB	1:A:1338:GLY:CA	2.29	0.63
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.63	0.63
1:C:689:ARG:NE	1:C:1339:GLU:HG2	2.14	0.63
1:D:619:LYS:HG2	1:D:620:LYS:H	1.64	0.63
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.28	0.63
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.14	0.63
2:G:1223:SER:HB2	2:G:1226:ALA:HB3	1.79	0.63
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.80	0.63
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.79	0.63
2:I:1985:GLN:HG3	2:I:1986:PRO:CD	2.24	0.63
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.28	0.63
2:I:486:ILE:HG22	2:I:490:LEU:HG	1.79	0.63
2:I:752:HIS:CE1	2:I:847:TYR:HE2	2.16	0.63
2:I:938:MET:HB3	2:I:959:THR:HG22	1.80	0.63
2:J:1848:ALA:HA	2:J:2034:LYS:HD3	1.81	0.63
2:K:1848:ALA:HA	2:K:2034:LYS:HD3	1.81	0.63
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.64	0.63
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.98	0.63
2:L:382:LEU:HG	2:L:390:VAL:HB	1.80	0.63
2:L:529:ASN:HD22	2:L:552:VAL:HG22	1.63	0.63
1:A:2:ARG:HD2	1:A:5:VAL:HG21	1.80	0.63
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.29	0.63
1:F:422:LEU:HB3	1:F:429:ILE:HD11	1.80	0.63
2:G:1479:HIS:CD2	2:G:1481:ILE:HG12	2.34	0.63
2:G:250:PHE:HA	2:G:287:GLN:NE2	2.13	0.63
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.34	0.63
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.34	0.63
2:G:382:LEU:HG	2:G:390:VAL:HB	1.81	0.63
2:G:583:THR:OG1	2:G:587:GLN:HB2	1.97	0.63
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	1.99	0.63
2:J:1404:VAL:O	2:J:1445:THR:HA	1.99	0.63
2:J:1896:THR:HG22	2:J:1897:GLU:N	2.13	0.63
2:J:610:PRO:CD	3:J:2101:FMN:H6	2.29	0.63
2:L:2057:GLU:HA	2:L:2060:ARG:NH1	2.14	0.63
2:L:818:THR:HA	2:L:829:LYS:HG2	1.80	0.63
1:A:1610:ARG:CG	1:A:1610:ARG:HH11	1.91	0.62
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.14	0.62
1:B:1217:GLU:O	1:B:1299:ALA:HB1	1.99	0.62
1:C:422:LEU:HB3	1:C:429:ILE:HD11	1.79	0.62
1:D:70:ALA:HB2	2:L:407:LYS:HZ1	1.64	0.62
2:H:595:SER:HB3	2:H:602:PRO:CG	2.25	0.62
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.81	0.62
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.63	0.62
2:I:930:THR:CG2	2:I:933:GLU:H	2.12	0.62
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.62
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.81	0.62
2:K:979:LEU:HD21	2:K:999:ALA:HB3	1.80	0.62
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.81	0.62
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.64	0.62
2:L:814:SER:HB2	3:L:2101:FMN:O3P	1.99	0.62
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.34	0.62
1:E:1078:ILE:HB	1:E:1338:GLY:CA	2.29	0.62
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.80	0.62
1:F:1018:GLY:HA2	1:F:1590:ARG:NH2	2.14	0.62
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.45	0.62
2:G:1200:ARG:HD3	2:G:1200:ARG:H	1.64	0.62
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.80	0.62
2:G:818:THR:HA	2:G:829:LYS:HG2	1.81	0.62
2:H:623:ASN:OD1	2:H:653:PRO:HD3	2.00	0.62
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.81	0.62
2:I:472:THR:H	2:I:493:MET:HE3	1.63	0.62
2:J:915:PHE:CD2	2:J:915:PHE:O	2.52	0.62
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.81	0.62
2:K:352:SER:HB2	2:K:433:LEU:HD21	1.81	0.62
1:B:1463:GLU:O	1:B:1467:LEU:HB2	1.98	0.62
1:C:1108:PRO:HG3	1:C:1141:ARG:NE	2.15	0.62
1:E:689:ARG:NH2	1:E:1591:ASN:HD21	1.96	0.62
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.60	0.62
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.34	0.62
2:G:1472:TRP:HB3	2:G:1530:TYR:HB2	1.80	0.62
2:G:1610:MET:CE	2:G:1610:MET:HA	2.29	0.62
2:G:752:HIS:CE1	2:G:847:TYR:HE2	2.17	0.62
2:G:865:ILE:HG21	2:G:867:LYS:HE3	1.80	0.62
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	1.99	0.62
2:J:779:GLY:HA3	2:J:811:MET:CE	2.30	0.62
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.22	0.62
2:L:1866:THR:HA	2:L:1869:VAL:HG22	1.81	0.62
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.29	0.62
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.34	0.62
2:L:915:PHE:CD2	2:L:915:PHE:O	2.52	0.62
1:A:397:ARG:HH11	1:A:692:THR:HG21	1.64	0.62
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.82	0.62
1:B:562:SER:OG	1:E:551:LEU:HD21	2.00	0.62
1:D:533:SER:HB2	1:D:612:ILE:HB	1.81	0.62
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.14	0.62
2:I:583:THR:OG1	2:I:587:GLN:HB2	1.98	0.62
2:J:489:GLU:O	2:J:493:MET:HG3	2.00	0.62
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.35	0.62
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.34	0.62
2:K:1641:GLY:HA3	2:K:1678:VAL:HA	1.80	0.62
2:K:305:ALA:O	2:K:309:LYS:HD3	2.00	0.62
2:L:1610:MET:CE	2:L:1610:MET:HA	2.29	0.62
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.14	0.62
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.79	0.62
1:C:1018:GLY:HA2	1:C:1590:ARG:NH2	2.14	0.62
1:C:504:GLY:O	1:C:926:SER:HB2	2.00	0.62
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.80	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.17	0.62
1:E:1448:ALA:HA	1:E:1451:LYS:HD2	1.80	0.62
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.99	0.62
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.81	0.62
2:G:1299:VAL:HG23	2:G:1301:PHE:HE2	1.64	0.62
2:G:1375:HIS:ND1	2:G:1610:MET:HG2	2.15	0.62
2:G:1335:PHE:HE1	2:G:1629:ILE:CD1	2.13	0.62
2:G:766:SER:O	2:G:770:LYS:HG3	1.98	0.62
2:H:1593:SER:OG	2:H:1596:PHE:HB2	1.99	0.62
2:H:461:PRO:HD2	2:H:464:SER:OG	2.00	0.62
2:I:1868:GLN:HG2	2:I:1873:ARG:HH22	1.65	0.62
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.82	0.62
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.81	0.62
2:J:1200:ARG:HD3	2:J:1200:ARG:H	1.65	0.62
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.29	0.62
2:J:1436:ARG:HH22	2:J:1602:LEU:HD21	1.64	0.62
2:J:1641:GLY:HA3	2:J:1678:VAL:HA	1.81	0.62
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.00	0.62
2:J:472:THR:H	2:J:493:MET:HE3	1.64	0.62
2:K:196:PHE:CD2	2:K:266:LYS:HB3	2.34	0.62
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.80	0.62
1:A:1505:GLY:O	1:A:1509:THR:HG23	1.99	0.62
1:A:682:VAL:HG11	1:A:695:TYR:HE2	1.65	0.62
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.34	0.62
1:C:1078:ILE:HB	1:C:1338:GLY:CA	2.29	0.62
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.30	0.62
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.47	0.62
2:G:1156:ASP:HB3	2:G:1158:ASP:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1848:ALA:HA	2:G:2034:LYS:HD3	1.82	0.62
2:G:2052:LYS:HD3	2:G:2074:TRP:HE1	1.65	0.62
2:G:915:PHE:O	2:G:915:PHE:CD2	2.53	0.62
2:H:1641:GLY:HA3	2:H:1678:VAL:HA	1.82	0.62
2:H:594:MET:HB3	2:H:808:ASP:O	1.99	0.62
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	1.80	0.62
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.83	0.62
2:L:1780:ILE:HG23	2:L:1869:VAL:HG11	1.81	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	2.00	0.62
2:L:77:ALA:O	2:L:139:ALA:HB1	2.00	0.62
1:A:811:ASP:HB3	1:A:814:TYR:HB3	1.81	0.62
1:A:911:LEU:O	1:A:915:MET:HG3	2.00	0.62
1:B:1269:SER:O	1:D:1386:THR:HB	2.00	0.62
1:B:1018:GLY:HA2	1:B:1590:ARG:NH2	2.14	0.62
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.79	0.62
1:E:1364:THR:HG22	1:E:1366:GLN:H	1.64	0.62
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.81	0.62
2:G:1288:PHE:O	2:G:1292:VAL:HG23	2.00	0.62
2:G:1641:GLY:HA3	2:G:1678:VAL:HA	1.81	0.62
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.81	0.62
2:H:1687:GLN:O	2:H:1828:GLN:NE2	2.32	0.62
2:H:485:ASP:HB3	2:H:488:PRO:CD	2.29	0.62
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.28	0.62
2:I:448:HIS:HD2	2:I:491:VAL:CG1	2.13	0.62
2:I:529:ASN:HD22	2:I:552:VAL:HG22	1.64	0.62
2:J:1123:ALA:HB3	2:J:1126:GLU:HG3	1.82	0.62
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.29	0.62
2:J:486:ILE:HG22	2:J:490:LEU:HG	1.80	0.62
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.35	0.62
1:A:1078:ILE:HG21	1:A:1352:MET:HE2	1.82	0.62
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.15	0.62
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.81	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:C:535:TYR:CD1	1:C:610:GLU:N	2.67	0.62
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.18	0.62
1:B:1499:ARG:CD	1:D:1476:ARG:HH12	2.02	0.62
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.34	0.62
1:E:811:ASP:HB3	1:E:814:TYR:HB3	1.79	0.62
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.30	0.62
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	1.80	0.62
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1946:LEU:HD22	2:J:1951:ILE:HD13	1.81	0.62
2:J:76:VAL:O	2:J:80:ILE:HG13	1.99	0.62
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.80	0.62
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.62	0.62
2:L:854:VAL:HG21	2:L:1070:PRO:HA	1.81	0.62
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.61	0.62
1:A:1095:GLN:O	1:A:1096:LEU:HD23	1.99	0.62
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.62
1:D:811:ASP:HB3	1:D:814:TYR:HB3	1.81	0.62
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.00	0.62
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.64	0.62
2:G:1339:GLY:HA2	2:I:376:ARG:NH2	2.15	0.62
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.80	0.62
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.82	0.62
2:I:1866:THR:HA	2:I:1869:VAL:HG22	1.82	0.62
2:J:382:LEU:HG	2:J:390:VAL:HB	1.80	0.62
2:K:1067:LEU:HD12	2:K:1067:LEU:N	2.15	0.62
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.62	0.62
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.28	0.62
2:K:600:VAL:HG22	2:K:601:PRO:HD2	1.81	0.62
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.34	0.62
2:L:251:PRO:HG3	2:L:316:PHE:CA	2.29	0.62
2:L:76:VAL:O	2:L:80:ILE:HG13	1.99	0.62
2:L:930:THR:CG2	2:L:933:GLU:H	2.12	0.62
1:A:371:GLN:HG2	1:F:372:LEU:HD11	1.81	0.62
1:B:433:CYS:O	1:B:437:MET:HG3	2.00	0.62
1:C:612:ILE:HG23	1:C:628:TYR:CD2	2.35	0.62
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.35	0.62
1:D:1697:LEU:O	1:D:1699:PRO:HD3	1.99	0.62
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.18	0.62
1:F:828:TRP:HE1	1:F:838:THR:HA	1.64	0.62
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.81	0.62
2:G:215:TRP:CE3	2:G:216:ASP:N	2.66	0.62
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.30	0.62
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.81	0.62
2:H:2052:LYS:HD3	2:H:2074:TRP:HE1	1.64	0.62
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.15	0.62
2:I:1475:LEU:HD23	2:I:1476:ASP:H	1.65	0.62
2:J:461:PRO:HD2	2:J:464:SER:OG	1.99	0.62
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.81	0.62
2:L:1946:LEU:HD22	2:L:1951:ILE:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.82	0.61
1:B:689:ARG:CZ	1:B:1339:GLU:HG2	2.30	0.61
1:C:1224:SER:HB2	1:C:1307:PHE:O	2.00	0.61
1:C:565:GLN:O	1:C:569:LEU:HD12	2.00	0.61
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.80	0.61
1:E:715:ASN:HD22	1:E:717:GLY:H	1.48	0.61
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.00	0.61
2:G:931:TYR:O	2:G:935:VAL:HG12	1.99	0.61
2:H:1239:ASP:OD1	2:H:1240:ASN:N	2.33	0.61
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.29	0.61
2:I:317:TRP:O	2:I:321:ARG:HG2	2.00	0.61
2:J:1888:PRO:HB3	2:J:1895:PHE:HD1	1.65	0.61
2:K:1181:PHE:CE1	2:K:1191:PRO:HD2	2.35	0.61
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.29	0.61
2:L:610:PRO:CD	3:L:2101:FMN:H6	2.30	0.61
2:L:583:THR:OG1	2:L:587:GLN:HB2	2.00	0.61
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.82	0.61
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.82	0.61
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.97	0.61
1:A:47:ILE:HB	2:G:1694:PHE:HD1	1.65	0.61
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.82	0.61
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.82	0.61
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.65	0.61
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.34	0.61
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.00	0.61
2:G:2052:LYS:CE	2:G:2052:LYS:H	2.07	0.61
2:G:21:LEU:HD22	2:G:36:LEU:HD22	1.82	0.61
2:H:462:ALA:HB2	2:H:481:LEU:HB2	1.82	0.61
2:I:610:PRO:CD	3:I:2101:FMN:H6	2.29	0.61
2:J:1019:LEU:O	2:J:1022:ARG:HG2	2.00	0.61
2:K:1478:GLN:HG3	2:K:1479:HIS:N	2.15	0.61
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.00	0.61
2:K:1764:MET:CE	2:K:1865:LEU:HD12	2.30	0.61
2:K:35:PHE:CZ	2:K:105:ILE:HD13	2.35	0.61
2:K:440:HIS:CD2	2:K:497:ASP:O	2.53	0.61
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.00	0.61
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.82	0.61
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.31	0.61
2:L:612:THR:HG22	2:L:612:THR:O	2.00	0.61
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.66	0.61
1:A:1018:GLY:HA2	1:A:1590:ARG:NH2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:ILE:HD13	1:C:1352:MET:HG2	1.82	0.61
1:C:1209:PHE:CE2	1:C:1301:VAL:HG21	2.35	0.61
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	1.81	0.61
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.00	0.61
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.35	0.61
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.81	0.61
2:G:646:SER:HA	2:G:649:GLU:HG2	1.81	0.61
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.35	0.61
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.14	0.61
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.65	0.61
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	1.81	0.61
2:I:1019:LEU:O	2:I:1022:ARG:HG2	2.00	0.61
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.82	0.61
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.81	0.61
2:J:613:VAL:HG12	2:J:614:PRO:HD3	1.83	0.61
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.14	0.61
2:K:1976:CYS:O	2:K:1980:THR:HG23	2.00	0.61
2:K:515:ASP:HB3	2:K:541:LEU:HD23	1.82	0.61
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.29	0.61
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.99	0.61
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.15	0.61
2:L:1478:GLN:HG3	2:L:1479:HIS:N	2.15	0.61
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.81	0.61
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.01	0.61
1:B:1078:ILE:HB	1:B:1338:GLY:CA	2.30	0.61
1:B:2:ARG:HD2	1:B:5:VAL:HG21	1.80	0.61
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.83	0.61
1:C:1463:GLU:O	1:C:1467:LEU:HB2	1.99	0.61
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.00	0.61
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	1.98	0.61
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.80	0.61
1:E:440:SER:HB3	1:E:481:LEU:HD23	1.80	0.61
1:F:1078:ILE:HB	1:F:1338:GLY:CA	2.29	0.61
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.81	0.61
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.82	0.61
2:G:762:LEU:HD22	2:G:802:TYR:CD2	2.33	0.61
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.36	0.61
2:H:600:VAL:HG13	2:H:601:PRO:CD	2.30	0.61
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.36	0.61
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.35	0.61
2:J:193:TYR:CD2	2:J:263:ILE:HD13	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:583:THR:OG1	2:J:587:GLN:HB2	1.99	0.61
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.35	0.61
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.15	0.61
2:K:2005:PHE:CB	2:K:2010:LEU:HD11	2.30	0.61
2:K:317:TRP:O	2:K:321:ARG:HG2	2.00	0.61
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.81	0.61
1:A:1106:LEU:HD23	1:A:1107:GLU:H	1.65	0.61
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.00	0.61
1:B:965:TYR:CZ	1:B:1199:LEU:HD22	2.35	0.61
1:C:1142:LEU:HD12	1:C:1142:LEU:N	2.14	0.61
1:D:1107:GLU:HG3	1:D:1108:PRO:HD2	1.82	0.61
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.30	0.61
1:D:1432:ILE:HD11	1:D:1481:GLN:HB3	1.83	0.61
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.62	0.61
1:E:1078:ILE:HD13	1:E:1352:MET:HG2	1.81	0.61
2:G:1318:ALA:HA	2:G:1391:VAL:HG21	1.83	0.61
2:H:709:LEU:HD23	2:H:709:LEU:H	1.65	0.61
2:H:915:PHE:CD2	2:H:915:PHE:O	2.53	0.61
2:I:461:PRO:HD2	2:I:464:SER:OG	2.01	0.61
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.83	0.61
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.30	0.61
2:I:67:ASP:HA	2:I:132:LYS:HE2	1.82	0.61
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.14	0.61
2:J:791:TYR:HA	2:J:796:TRP:CD1	2.35	0.61
2:J:884:PHE:HE2	2:J:1039:GLU:HA	1.65	0.61
2:K:1353:GLY:HA2	2:K:1397:THR:HG21	1.82	0.61
2:K:382:LEU:HG	2:K:390:VAL:HB	1.82	0.61
2:K:612:THR:O	2:K:612:THR:HG22	2.00	0.61
2:K:930:THR:CG2	2:K:933:GLU:H	2.13	0.61
2:L:462:ALA:HB2	2:L:481:LEU:HB2	1.83	0.61
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.30	0.61
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.01	0.61
1:C:1389:ILE:HG13	1:F:1268:SER:CB	2.08	0.61
1:E:1463:GLU:O	1:E:1467:LEU:HB2	1.99	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:N	2.15	0.61
2:G:1123:ALA:HB3	2:G:1126:GLU:HG3	1.82	0.61
2:G:1299:VAL:CG2	2:G:1301:PHE:HE2	2.14	0.61
2:G:190:TYR:CD1	2:G:201:ILE:HD13	2.34	0.61
2:G:541:LEU:HG	2:G:552:VAL:HG11	1.83	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61
2:H:489:GLU:O	2:H:493:MET:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.82	0.61
2:I:865:ILE:HG21	2:I:867:LYS:HE3	1.83	0.61
2:J:1475:LEU:HD23	2:J:1476:ASP:H	1.65	0.61
2:J:2059:HIS:ND1	2:J:2067:ILE:HG22	2.15	0.61
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.30	0.61
2:K:818:THR:HA	2:K:829:LYS:HG2	1.81	0.61
2:L:215:TRP:CE3	2:L:216:ASP:N	2.67	0.61
2:L:540:ILE:HD13	2:L:557:GLU:HB3	1.82	0.61
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.82	0.61
1:B:989:ASN:N	1:B:1491:ASN:HD21	1.85	0.61
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.81	0.61
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.82	0.61
1:F:1078:ILE:HG21	1:F:1352:MET:HE2	1.83	0.61
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.65	0.61
1:F:1211:LYS:O	1:F:1702:ARG:HD3	1.99	0.61
2:G:594:MET:HB3	2:G:808:ASP:O	2.00	0.61
2:G:626:TYR:N	2:G:656:ARG:HH22	1.99	0.61
2:G:48:LEU:HD13	2:G:83:VAL:HG22	1.83	0.61
2:H:646:SER:HA	2:H:649:GLU:HG2	1.82	0.61
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.15	0.61
2:I:1593:SER:OG	2:I:1596:PHE:HB2	1.99	0.61
1:C:22:PHE:O	2:I:2010:LEU:HD12	2.00	0.61
2:J:1259:LEU:HD23	2:J:1288:PHE:HB2	1.82	0.61
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.65	0.61
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.31	0.61
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.35	0.61
1:F:47:ILE:HB	2:L:1694:PHE:HD1	1.65	0.61
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.15	0.61
1:A:926:SER:O	1:A:930:GLN:HG2	2.01	0.61
2:G:459:LYS:HB3	2:G:485:ASP:OD1	2.01	0.61
2:G:674:ILE:HD13	2:G:705:TYR:HE2	1.66	0.61
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	1.99	0.61
2:H:1019:LEU:O	2:H:1022:ARG:HG2	2.00	0.61
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.81	0.61
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.61
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.30	0.61
2:J:766:SER:O	2:J:770:LYS:HG3	2.00	0.61
2:K:646:SER:HA	2:K:649:GLU:HG2	1.83	0.61
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.30	0.61
2:L:1175:MET:HE3	2:L:1192:LEU:HD11	1.82	0.61
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:196:PHE:CD2	2:L:266:LYS:HB3	2.35	0.61
2:L:67:ASP:HA	2:L:132:LYS:HE2	1.81	0.61
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.83	0.61
1:B:619:LYS:HG2	1:B:620:LYS:H	1.66	0.61
1:E:619:LYS:HG2	1:E:620:LYS:H	1.64	0.61
1:E:999:LEU:HD11	1:E:1575:ASN:HB3	1.81	0.61
2:G:1679:LEU:O	2:G:1680:GLN:HG3	2.01	0.61
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.16	0.61
2:H:1517:LEU:HB2	2:H:1521:GLU:HB2	1.81	0.61
2:H:1610:MET:HA	2:H:1610:MET:CE	2.30	0.61
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.15	0.61
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.66	0.61
2:I:595:SER:HB3	2:I:602:PRO:CG	2.28	0.61
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.31	0.61
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.35	0.61
2:J:1286:LYS:HZ1	2:J:1367:ASP:HA	1.66	0.61
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.83	0.61
2:K:1171:TRP:HB3	2:K:1265:TYR:CE1	2.36	0.61
2:L:1985:GLN:HG3	2:L:1986:PRO:CD	2.23	0.61
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.66	0.61
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.81	0.61
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.54	0.61
1:A:397:ARG:NH1	1:A:692:THR:HG21	2.15	0.61
1:C:383:TYR:O	1:C:387:ILE:HG23	2.00	0.61
1:C:715:ASN:HD22	1:C:717:GLY:H	1.49	0.61
1:D:1078:ILE:HB	1:D:1338:GLY:HA2	1.80	0.61
1:D:1224:SER:HB2	1:D:1307:PHE:O	2.01	0.61
1:D:767:HIS:NE2	1:D:771:LEU:HD23	2.16	0.61
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.66	0.61
1:E:828:TRP:HE1	1:E:838:THR:HA	1.66	0.61
2:G:1946:LEU:HD22	2:G:1951:ILE:HD13	1.81	0.61
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.65	0.61
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.83	0.61
2:H:48:LEU:HD13	2:H:83:VAL:HG22	1.83	0.61
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.36	0.61
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.36	0.61
2:I:609:THR:OG1	2:I:610:PRO:HD3	2.00	0.61
2:I:674:ILE:HD13	2:I:705:TYR:HE2	1.65	0.61
2:I:762:LEU:HD22	2:I:802:TYR:CD2	2.31	0.61
2:J:2057:GLU:HA	2:J:2060:ARG:NH1	2.16	0.61
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:743:TRP:CE2	2:K:761:ILE:HD11	2.36	0.61
2:K:719:GLY:O	2:K:755:GLU:HG3	2.01	0.61
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.16	0.61
1:F:59:ARG:HD2	2:L:1926:GLN:HE21	1.65	0.61
2:L:964:ARG:O	2:L:967:GLU:HB2	2.00	0.61
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.82	0.60
1:B:439:ARG:HA	1:B:705:ARG:HG2	1.83	0.60
1:D:1018:GLY:HA2	1:D:1590:ARG:NH2	2.16	0.60
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.34	0.60
1:E:422:LEU:HB3	1:E:429:ILE:HD11	1.82	0.60
2:G:76:VAL:O	2:G:80:ILE:HG13	2.01	0.60
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.30	0.60
2:H:884:PHE:HE2	2:H:1039:GLU:HA	1.64	0.60
2:I:1346:MET:HB2	2:I:1427:MET:HE3	1.83	0.60
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.16	0.60
2:I:290:VAL:HG11	2:I:315:LEU:HD13	1.83	0.60
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.01	0.60
2:J:317:TRP:O	2:J:321:ARG:HG2	2.01	0.60
2:J:352:SER:HB2	2:J:433:LEU:HD21	1.83	0.60
2:J:37:VAL:HG12	2:J:38:PRO:O	2.01	0.60
2:J:646:SER:HA	2:J:649:GLU:HG2	1.82	0.60
2:J:663:ILE:H	2:J:663:ILE:HD12	1.64	0.60
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.83	0.60
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.35	0.60
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.66	0.60
2:L:613:VAL:HG12	2:L:614:PRO:HD3	1.83	0.60
1:A:715:ASN:HD22	1:A:717:GLY:H	1.48	0.60
1:C:926:SER:O	1:C:930:GLN:HG2	2.01	0.60
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.82	0.60
1:E:1078:ILE:HB	1:E:1338:GLY:HA2	1.82	0.60
1:E:1106:LEU:HD23	1:E:1107:GLU:H	1.66	0.60
1:F:1107:GLU:HG3	1:F:1108:PRO:HD2	1.83	0.60
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.00	0.60
1:C:1273:ILE:CD1	1:F:1630:LYS:HD2	2.30	0.60
1:F:1697:LEU:O	1:F:1699:PRO:HD3	2.00	0.60
2:G:1008:ILE:HD12	2:G:1013:VAL:HG22	1.83	0.60
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.35	0.60
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.82	0.60
2:G:472:THR:H	2:G:493:MET:HE3	1.65	0.60
2:H:1346:MET:HB2	2:H:1427:MET:HE3	1.84	0.60
2:H:610:PRO:CD	3:H:2101:FMN:H6	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.30	0.60
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.83	0.60
2:H:382:LEU:HG	2:H:390:VAL:HB	1.82	0.60
2:H:352:SER:HB2	2:H:433:LEU:HD21	1.81	0.60
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.83	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:HA	1.84	0.60
2:I:1479:HIS:CD2	2:I:1481:ILE:HG12	2.34	0.60
2:I:154:TYR:CE1	2:I:561:ARG:NH1	2.68	0.60
2:I:979:LEU:HD21	2:I:999:ALA:HB3	1.83	0.60
2:K:331:LEU:C	2:L:1627:ASN:HD21	2.04	0.60
2:K:461:PRO:HD2	2:K:464:SER:OG	2.01	0.60
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.66	0.60
2:K:521:VAL:O	2:K:526:VAL:HG21	2.01	0.60
2:L:1250:ARG:NH1	2:L:1592:VAL:HG12	2.16	0.60
2:L:1259:LEU:HD23	2:L:1288:PHE:HB2	1.83	0.60
1:B:1142:LEU:N	1:B:1142:LEU:HD12	2.15	0.60
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	1.99	0.60
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.01	0.60
1:D:553:ARG:NH2	1:D:567:ASN:HD21	1.99	0.60
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.82	0.60
1:D:905:LEU:HD22	1:D:911:LEU:HD21	1.82	0.60
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.01	0.60
1:E:553:ARG:NH2	1:E:567:ASN:HD21	1.99	0.60
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.27	0.60
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.83	0.60
2:H:300:THR:H	2:H:303:GLU:HB3	1.67	0.60
2:H:818:THR:HA	2:H:829:LYS:HG2	1.84	0.60
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.36	0.60
2:I:1346:MET:HB2	2:I:1427:MET:CE	2.32	0.60
2:I:1804:GLN:HG2	2:I:1865:LEU:HD23	1.83	0.60
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.83	0.60
2:I:709:LEU:HD23	2:I:709:LEU:H	1.66	0.60
2:I:964:ARG:O	2:I:967:GLU:HB2	2.01	0.60
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.65	0.60
2:J:854:VAL:HG21	2:J:1070:PRO:HA	1.82	0.60
2:K:1259:LEU:HD23	2:K:1288:PHE:HB2	1.82	0.60
2:K:1887:ASN:H	2:K:1994:ALA:HB1	1.65	0.60
2:L:250:PHE:HA	2:L:287:GLN:NE2	2.16	0.60
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.83	0.60
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.67	0.60
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:ILE:HB	1:A:1338:GLY:HA2	1.82	0.60
1:C:1490:GLY:O	1:C:1509:THR:HB	2.01	0.60
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.63	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.84	0.60
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.83	0.60
2:G:67:ASP:HA	2:G:132:LYS:HE2	1.84	0.60
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.02	0.60
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.65	0.60
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.01	0.60
2:H:938:MET:HE2	2:H:959:THR:HG22	1.82	0.60
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.31	0.60
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.37	0.60
2:I:766:SER:O	2:I:770:LYS:HG3	2.01	0.60
2:K:489:GLU:O	2:K:493:MET:HG3	2.01	0.60
2:K:938:MET:HB3	2:K:959:THR:HG22	1.83	0.60
2:L:37:VAL:HG12	2:L:38:PRO:O	2.01	0.60
1:A:1211:LYS:O	1:A:1702:ARG:HD3	2.02	0.60
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.36	0.60
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.17	0.60
1:D:551:LEU:C	1:D:551:LEU:HD23	2.22	0.60
1:E:2:ARG:HD2	1:E:5:VAL:HG21	1.82	0.60
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.82	0.60
2:G:1802:ALA:HB1	2:G:1804:GLN:NE2	2.14	0.60
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.83	0.60
2:I:1610:MET:HA	2:I:1610:MET:CE	2.30	0.60
2:I:541:LEU:HG	2:I:552:VAL:HG11	1.83	0.60
2:J:1097:PHE:HD2	2:J:1100:ARG:HH12	1.49	0.60
2:J:1217:ILE:HD12	2:J:1234:ILE:HD12	1.83	0.60
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.50	0.60
2:J:468:PRO:CD	2:J:479:ARG:HH21	2.13	0.60
2:J:608:MET:H	2:J:612:THR:CB	2.15	0.60
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.65	0.60
2:K:472:THR:HG23	2:K:499:VAL:HA	1.83	0.60
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.66	0.60
2:L:743:TRP:CE2	2:L:761:ILE:HD11	2.36	0.60
2:L:938:MET:HE2	2:L:959:THR:HG22	1.81	0.60
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.02	0.60
1:A:682:VAL:HG11	1:A:695:TYR:CE2	2.36	0.60
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.36	0.60
1:B:673:LEU:O	1:B:678:ALA:HB3	2.01	0.60
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:408:GLN:HE22	1:C:1609:SER:H	1.49	0.60
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.02	0.60
1:E:1106:LEU:HD13	1:E:1142:LEU:HD13	1.84	0.60
1:E:427:ARG:NH1	1:E:492:ILE:HG12	2.17	0.60
2:G:448:HIS:HD2	2:G:491:VAL:CG1	2.15	0.60
2:H:583:THR:OG1	2:H:587:GLN:HB2	2.01	0.60
2:I:814:SER:HB2	3:I:2101:FMN:O3P	2.00	0.60
2:J:1499:LYS:HD3	2:J:1534:GLU:OE1	2.02	0.60
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.31	0.60
2:J:626:TYR:N	2:J:656:ARG:HH22	1.98	0.60
2:L:290:VAL:HG11	2:L:315:LEU:HD13	1.83	0.60
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.36	0.60
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.60
1:B:1401:LEU:O	1:B:1401:LEU:HD22	2.01	0.60
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.31	0.60
1:C:1310:PHE:CE1	1:C:1315:SER:HB2	2.37	0.60
2:G:1468:ARG:NH1	2:G:1468:ARG:CG	2.51	0.60
2:G:1694:PHE:HD2	2:G:1843:ALA:HB2	1.66	0.60
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.60
2:H:1286:LYS:HZ1	2:H:1367:ASP:HA	1.66	0.60
2:H:2032:PRO:C	2:H:2036:ILE:HG13	2.22	0.60
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.84	0.60
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.17	0.60
2:I:1867:MET:O	2:I:2003:VAL:HG21	2.02	0.60
2:J:1610:MET:CE	2:J:1610:MET:HA	2.29	0.60
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.84	0.60
2:J:938:MET:HB3	2:J:959:THR:HG22	1.84	0.60
2:J:979:LEU:HD21	2:J:999:ALA:HB3	1.83	0.60
2:K:1061:VAL:HG12	2:K:1066:ILE:HD11	1.82	0.60
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.82	0.60
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.17	0.60
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.65	0.60
1:C:433:CYS:O	1:C:437:MET:HG3	2.02	0.60
1:C:777:LEU:O	1:C:781:ILE:HG13	2.02	0.60
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.66	0.60
1:E:533:SER:HB2	1:E:612:ILE:HB	1.84	0.60
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.36	0.60
1:F:1078:ILE:HB	1:F:1338:GLY:HA2	1.83	0.60
1:F:12:THR:O	1:F:16:GLU:HG2	2.02	0.60
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.82	0.60
2:G:317:TRP:O	2:G:321:ARG:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:352:SER:HB2	2:G:433:LEU:HD21	1.83	0.60
2:G:709:LEU:H	2:G:709:LEU:HD23	1.66	0.60
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.32	0.60
2:H:1866:THR:HA	2:H:1869:VAL:HG22	1.84	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.17	0.60
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.02	0.60
2:I:382:LEU:HG	2:I:390:VAL:HB	1.83	0.60
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.83	0.60
2:K:1517:LEU:HB2	2:K:1521:GLU:HB2	1.84	0.60
2:K:661:ASN:HD21	3:K:2101:FMN:HN3	1.49	0.60
2:K:791:TYR:HA	2:K:796:TRP:CD1	2.37	0.60
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.37	0.60
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.37	0.60
2:L:317:TRP:O	2:L:321:ARG:HG2	2.02	0.60
2:L:911:GLN:NE2	2:L:1065:CYS:H	1.99	0.60
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.83	0.60
1:A:1448:ALA:HA	1:A:1451:LYS:HD2	1.82	0.60
1:C:965:TYR:OH	1:C:1199:LEU:HD22	2.02	0.60
1:D:430:VAL:O	1:D:434:ILE:HG13	2.01	0.60
1:E:701:ARG:NH1	1:E:1610:ARG:NH2	2.50	0.60
1:E:12:THR:O	1:E:16:GLU:HG2	2.02	0.60
1:A:29:ILE:HD11	2:G:1922:VAL:C	2.23	0.60
2:G:485:ASP:HB3	2:G:488:PRO:CD	2.31	0.60
2:H:1499:LYS:HD3	2:H:1534:GLU:OE1	2.01	0.60
2:H:1938:THR:O	2:H:1942:VAL:HG23	2.02	0.60
2:H:1521:GLU:OE2	2:H:2028:THR:HG22	2.02	0.60
2:H:196:PHE:CD2	2:H:266:LYS:HB3	2.37	0.60
2:H:493:MET:HA	2:H:497:ASP:HB2	1.83	0.60
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.02	0.60
2:I:1848:ALA:HA	2:I:2034:LYS:HD3	1.83	0.60
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.16	0.60
2:J:1289:TYR:HB2	2:J:1370:LEU:HD23	1.83	0.60
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.67	0.60
2:K:1475:LEU:HD23	2:K:1476:ASP:H	1.65	0.60
2:K:1499:LYS:HD3	2:K:1534:GLU:OE1	2.01	0.60
2:K:2057:GLU:HA	2:K:2060:ARG:NH1	2.17	0.60
2:L:448:HIS:HD2	2:L:491:VAL:CG1	2.15	0.60
2:L:779:GLY:O	2:L:780:SER:CB	2.50	0.60
1:B:1108:PRO:HG3	1:B:1141:ARG:NE	2.16	0.60
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.60
1:B:1078:ILE:HD13	1:B:1352:MET:HG2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:767:HIS:NE2	1:B:771:LEU:HD23	2.16	0.60
1:C:430:VAL:O	1:C:434:ILE:HG13	2.02	0.60
1:C:619:LYS:HG2	1:C:620:LYS:H	1.67	0.60
1:C:439:ARG:HA	1:C:705:ARG:HG2	1.84	0.60
1:D:427:ARG:HH12	1:D:492:ILE:CG1	2.12	0.60
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.32	0.60
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.84	0.60
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.83	0.60
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.01	0.60
2:G:290:VAL:HG11	2:G:315:LEU:HD13	1.83	0.60
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.37	0.60
2:H:117:ASN:OD1	2:H:561:ARG:HG3	2.02	0.60
2:I:485:ASP:HB3	2:I:488:PRO:CD	2.30	0.60
2:J:240:THR:O	2:J:244:VAL:HG23	2.02	0.60
2:J:705:TYR:HA	2:J:709:LEU:HD21	1.83	0.60
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.17	0.60
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.02	0.60
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.83	0.60
2:L:1679:LEU:O	2:L:1680:GLN:HG3	2.02	0.60
2:L:549:ASN:HD22	2:L:550:THR:N	2.00	0.60
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.52	0.59
1:E:560:LYS:O	1:E:564:LEU:HB2	2.02	0.59
1:F:1432:ILE:HD11	1:F:1481:GLN:HB3	1.84	0.59
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.17	0.59
2:G:726:GLN:O	2:G:730:ILE:HG12	2.01	0.59
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.02	0.59
2:H:1475:LEU:HD23	2:H:1476:ASP:H	1.66	0.59
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.59
2:J:300:THR:H	2:J:303:GLU:HB3	1.66	0.59
2:J:930:THR:CG2	2:J:933:GLU:H	2.15	0.59
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.02	0.59
2:K:240:THR:O	2:K:244:VAL:HG23	2.02	0.59
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.84	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.15	0.59
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.82	0.59
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.37	0.59
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.59
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.85	0.59
1:D:1364:THR:HG22	1:D:1366:GLN:H	1.66	0.59
1:D:673:LEU:O	1:D:678:ALA:HB3	2.01	0.59
1:E:383:TYR:O	1:E:387:ILE:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1078:ILE:HD13	1:F:1352:MET:HG2	1.84	0.59
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.38	0.59
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.83	0.59
2:G:1239:ASP:OD1	2:G:1240:ASN:N	2.35	0.59
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.67	0.59
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.35	0.59
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.84	0.59
2:G:713:HIS:CD2	2:G:740:ILE:HD13	2.37	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.85	0.59
2:J:493:MET:HA	2:J:497:ASP:HB2	1.83	0.59
2:J:529:ASN:HD22	2:J:552:VAL:HG22	1.67	0.59
2:K:1804:GLN:HG2	2:K:1865:LEU:HD23	1.83	0.59
2:K:1985:GLN:HG3	2:K:1986:PRO:CD	2.27	0.59
2:K:610:PRO:CD	3:K:2101:FMN:H6	2.32	0.59
2:K:159:PHE:CZ	2:K:275:LEU:HD21	2.37	0.59
2:L:884:PHE:HE2	2:L:1039:GLU:HA	1.66	0.59
2:L:1223:SER:CB	2:L:1226:ALA:HB3	2.32	0.59
2:L:1887:ASN:H	2:L:1994:ALA:HB1	1.68	0.59
1:A:1504:ARG:NH1	1:A:1504:ARG:CG	2.52	0.59
1:A:27:ARG:HG3	2:G:2045:ALA:HB2	1.83	0.59
1:B:970:LEU:HD21	1:B:1658:VAL:HG11	1.84	0.59
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.66	0.59
1:C:1107:GLU:HG3	1:C:1108:PRO:HD2	1.85	0.59
1:C:435:GLN:HG2	1:C:701:ARG:O	2.03	0.59
1:D:421:ARG:HH22	1:D:1613:LYS:CG	2.15	0.59
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	1.84	0.59
1:F:1108:PRO:HG3	1:F:1141:ARG:NE	2.15	0.59
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.38	0.59
2:G:926:LEU:O	2:G:1008:ILE:HD11	2.03	0.59
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.35	0.59
2:G:529:ASN:HD22	2:G:552:VAL:HG22	1.67	0.59
2:H:1888:PRO:HG3	2:H:1900:LEU:HD12	1.83	0.59
2:H:868:LEU:O	2:H:870:THR:HG23	2.03	0.59
2:I:126:VAL:HG12	2:I:127:ALA:H	1.67	0.59
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.02	0.59
2:J:1239:ASP:OD1	2:J:1240:ASN:N	2.35	0.59
2:J:1679:LEU:O	2:J:1680:GLN:HG3	2.02	0.59
2:J:2032:PRO:C	2:J:2036:ILE:HG13	2.23	0.59
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.37	0.59
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.00	0.59
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.84	0.59
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.67	0.59
1:E:532:ILE:HD11	1:E:866:LEU:O	2.01	0.59
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.59
1:F:22:PHE:HE2	2:L:2017:PHE:CG	2.21	0.59
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.85	0.59
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.02	0.59
2:G:1286:LYS:HZ1	2:G:1367:ASP:HA	1.67	0.59
2:H:1519:THR:O	2:H:1520:LYS:HB2	1.99	0.59
2:H:612:THR:HG22	2:H:612:THR:O	2.02	0.59
2:H:766:SER:O	2:H:770:LYS:HG3	2.01	0.59
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.31	0.59
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.03	0.59
2:I:2057:GLU:HA	2:I:2060:ARG:NH1	2.17	0.59
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.55	0.59
2:I:876:TRP:CD1	2:I:876:TRP:C	2.76	0.59
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.83	0.59
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.82	0.59
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.02	0.59
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.85	0.59
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.84	0.59
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.16	0.59
2:L:752:HIS:CE1	2:L:847:TYR:HE2	2.19	0.59
1:B:926:SER:O	1:B:930:GLN:HG2	2.02	0.59
1:C:47:ILE:HB	2:I:1694:PHE:CD1	2.38	0.59
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.03	0.59
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.83	0.59
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.14	0.59
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.83	0.59
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.59
2:I:1335:PHE:CE1	2:I:1629:ILE:CD1	2.85	0.59
2:I:154:TYR:CZ	2:I:561:ARG:NH1	2.71	0.59
2:I:646:SER:HA	2:I:649:GLU:HG2	1.84	0.59
2:I:779:GLY:O	2:I:780:SER:CB	2.49	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.10	0.59
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.65	0.59
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.83	0.59
2:K:626:TYR:N	2:K:656:ARG:HH22	2.01	0.59
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.03	0.59
1:F:18:LEU:HD21	2:L:1844:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:979:LEU:HD21	2:L:999:ALA:HB3	1.83	0.59
1:A:612:ILE:HD11	1:F:579:MET:HB3	1.84	0.59
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.17	0.59
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	1.84	0.59
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.31	0.59
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.84	0.59
1:F:1602:PHE:CD2	1:F:1602:PHE:N	2.70	0.59
2:G:1290:TYR:CD1	2:G:1299:VAL:HG12	2.37	0.59
2:G:196:PHE:CD2	2:G:266:LYS:HB3	2.38	0.59
2:G:331:LEU:HD22	2:G:396:ILE:HG13	1.84	0.59
2:H:934:VAL:O	2:H:938:MET:HG3	2.02	0.59
2:I:1259:LEU:HD23	2:I:1288:PHE:HB2	1.83	0.59
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.03	0.59
2:I:856:THR:HA	2:I:865:ILE:O	2.02	0.59
2:K:300:THR:H	2:K:303:GLU:HB3	1.68	0.59
2:K:762:LEU:HD22	2:K:802:TYR:CD2	2.31	0.59
2:K:903:ILE:HD11	2:K:914:TRP:CE2	2.38	0.59
2:L:1745:LEU:HB3	2:L:1799:LEU:HD22	1.84	0.59
2:L:489:GLU:O	2:L:493:MET:HG3	2.02	0.59
2:L:626:TYR:N	2:L:656:ARG:HH22	2.01	0.59
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.37	0.59
2:L:876:TRP:CD1	2:L:876:TRP:C	2.76	0.59
2:L:938:MET:HB3	2:L:959:THR:HG22	1.84	0.59
1:A:999:LEU:HD11	1:A:1575:ASN:HB3	1.85	0.59
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.85	0.59
1:B:383:TYR:O	1:B:387:ILE:HG23	2.03	0.59
1:C:1493:PHE:CE2	1:C:1509:THR:HG22	2.37	0.59
1:E:1336:GLU:O	1:E:1340:MET:HG2	2.01	0.59
1:F:811:ASP:HB3	1:F:814:TYR:HB3	1.84	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.84	0.59
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.38	0.59
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.33	0.59
2:H:77:ALA:O	2:H:139:ALA:HB1	2.02	0.59
2:H:942:MET:CE	2:H:955:LEU:HB3	2.33	0.59
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.32	0.59
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.03	0.59
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.32	0.59
2:K:583:THR:OG1	2:K:587:GLN:HB2	2.03	0.59
2:K:926:LEU:O	2:K:1008:ILE:HD11	2.03	0.59
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.37	0.59
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.86	0.59
1:D:18:LEU:HD21	2:J:1844:LEU:CD1	2.33	0.59
1:F:1638:HIS:ND1	1:F:1639:PRO:HD2	2.18	0.59
1:F:767:HIS:NE2	1:F:771:LEU:HD23	2.17	0.59
2:G:1097:PHE:HD2	2:G:1100:ARG:HH12	1.49	0.59
2:G:1985:GLN:HG3	2:G:1986:PRO:CD	2.25	0.59
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.32	0.59
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.84	0.59
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.84	0.59
2:J:1976:CYS:O	2:J:1980:THR:HG23	2.03	0.59
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.02	0.59
2:J:515:ASP:HB3	2:J:541:LEU:HD23	1.84	0.59
2:K:459:LYS:HB3	2:K:485:ASP:OD1	2.03	0.59
2:K:616:ASP:OD2	2:K:823:HIS:CE1	2.54	0.59
2:K:779:GLY:HA3	2:K:811:MET:CE	2.33	0.59
2:L:1305:LEU:HD12	2:L:1305:LEU:H	1.67	0.59
2:L:300:THR:H	2:L:303:GLU:HB3	1.67	0.59
2:L:515:ASP:HB3	2:L:541:LEU:HD23	1.85	0.59
1:A:1381:MET:HG2	1:A:1382:THR:N	2.15	0.59
1:A:445:LEU:HD11	1:A:481:LEU:HD11	1.84	0.59
1:B:435:GLN:HG2	1:B:701:ARG:O	2.02	0.59
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.03	0.59
1:D:926:SER:O	1:D:930:GLN:HG2	2.03	0.59
1:F:1504:ARG:NH1	1:F:1504:ARG:CG	2.50	0.59
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.85	0.59
2:G:580:LEU:HD12	2:G:1103:TYR:CE2	2.37	0.59
2:G:298:ALA:CB	2:G:304:PHE:HA	2.33	0.59
2:G:300:THR:H	2:G:303:GLU:HB3	1.66	0.59
2:H:1602:LEU:HD13	2:H:1606:ILE:CD1	2.33	0.59
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.67	0.59
2:H:1833:PHE:CZ	2:H:2039:TYR:HB2	2.38	0.59
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.38	0.59
2:H:459:LYS:HB3	2:H:485:ASP:OD1	2.02	0.59
2:H:529:ASN:HD22	2:H:552:VAL:HG22	1.67	0.59
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.02	0.59
2:I:1938:THR:O	2:I:1942:VAL:HG23	2.02	0.59
2:I:251:PRO:CG	2:I:316:PHE:HA	2.31	0.59
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.85	0.59
2:J:1594:ARG:NH1	2:J:1594:ARG:CG	2.58	0.59
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.84	0.59
2:J:448:HIS:HD2	2:J:491:VAL:HG12	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.38	0.59
2:K:1610:MET:CE	2:K:1610:MET:HA	2.33	0.59
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.85	0.59
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	1.85	0.59
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.03	0.59
2:L:215:TRP:O	2:L:218:VAL:HG22	2.03	0.59
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.84	0.59
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.03	0.59
1:B:1364:THR:HG22	1:B:1366:GLN:H	1.67	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.33	0.59
1:B:445:LEU:HD11	1:B:481:LEU:HD11	1.85	0.59
1:C:1047:TYR:CZ	1:C:1058:PRO:HB3	2.38	0.59
1:B:1273:ILE:CD1	1:D:1630:LYS:HD2	2.33	0.59
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.84	0.59
1:E:1490:GLY:O	1:E:1509:THR:HB	2.03	0.59
1:F:999:LEU:HD21	1:F:1575:ASN:CG	2.24	0.59
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.23	0.59
2:G:1475:LEU:HD23	2:G:1476:ASP:H	1.68	0.59
2:H:1067:LEU:N	2:H:1067:LEU:HD12	2.18	0.59
2:H:317:TRP:O	2:H:321:ARG:HG2	2.03	0.59
2:I:300:THR:H	2:I:303:GLU:HB3	1.67	0.59
1:D:22:PHE:O	2:J:2006:HIS:HA	2.03	0.59
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.83	0.59
2:K:1475:LEU:HD11	2:K:1483:LEU:HD11	1.85	0.59
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.03	0.59
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.37	0.59
2:L:791:TYR:HA	2:L:796:TRP:CD1	2.37	0.59
1:A:1108:PRO:HG3	1:A:1141:ARG:NE	2.18	0.58
1:B:1493:PHE:CE2	1:B:1509:THR:HG22	2.38	0.58
1:D:1020:PHE:CE2	1:D:1028:MET:HG3	2.38	0.58
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.68	0.58
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.36	0.58
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.03	0.58
1:F:1106:LEU:HD23	1:F:1107:GLU:H	1.68	0.58
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.85	0.58
1:F:433:CYS:O	1:F:437:MET:HG3	2.03	0.58
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.85	0.58
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.85	0.58
2:G:126:VAL:HG12	2:G:127:ALA:H	1.68	0.58
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.17	0.58
2:G:779:GLY:O	2:G:780:SER:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.84	0.58
2:H:856:THR:HA	2:H:865:ILE:O	2.03	0.58
2:I:1239:ASP:OD1	2:I:1240:ASN:N	2.31	0.58
2:I:459:LYS:HB3	2:I:485:ASP:OD1	2.03	0.58
2:I:31:LEU:HD13	2:I:75:LEU:HD21	1.85	0.58
2:J:1866:THR:HA	2:J:1869:VAL:HG22	1.84	0.58
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.02	0.58
2:K:1679:LEU:O	2:K:1680:GLN:HG3	2.03	0.58
2:K:215:TRP:CE3	2:K:216:ASP:N	2.68	0.58
2:K:540:ILE:HD13	2:K:557:GLU:HB3	1.85	0.58
2:K:827:GLN:NE2	2:K:827:GLN:H	2.00	0.58
2:L:1466:VAL:O	2:L:1470:LYS:HG2	2.03	0.58
2:L:1976:CYS:O	2:L:1980:THR:HG23	2.04	0.58
2:L:251:PRO:CG	2:L:316:PHE:HA	2.33	0.58
2:L:352:SER:HB2	2:L:433:LEU:HD21	1.84	0.58
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.33	0.58
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.21	0.58
1:A:551:LEU:HD23	1:A:551:LEU:C	2.24	0.58
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.85	0.58
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.38	0.58
1:D:970:LEU:HD21	1:D:1658:VAL:HG11	1.84	0.58
2:G:1305:LEU:HD12	2:G:1305:LEU:H	1.68	0.58
2:G:1517:LEU:HB2	2:G:1521:GLU:HB2	1.85	0.58
2:G:581:VAL:HG11	2:G:1113:ILE:HD11	1.85	0.58
2:H:541:LEU:HG	2:H:552:VAL:HG11	1.85	0.58
2:I:1289:TYR:HB2	2:I:1370:LEU:HD23	1.85	0.58
2:I:1499:LYS:HD3	2:I:1534:GLU:OE1	2.03	0.58
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.04	0.58
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.02	0.58
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.58
2:I:298:ALA:CB	2:I:304:PHE:HA	2.32	0.58
1:D:43:ARG:NH1	2:J:1687:GLN:NE2	2.50	0.58
2:J:1938:THR:O	2:J:1942:VAL:HG23	2.02	0.58
2:J:818:THR:HA	2:J:829:LYS:HG2	1.85	0.58
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	1.84	0.58
2:K:876:TRP:C	2:K:876:TRP:CD1	2.75	0.58
2:L:1475:LEU:HD23	2:L:1476:ASP:H	1.67	0.58
2:L:472:THR:HG23	2:L:499:VAL:HA	1.85	0.58
1:A:1336:GLU:O	1:A:1340:MET:HG2	2.02	0.58
1:A:619:LYS:HG2	1:A:620:LYS:H	1.69	0.58
1:B:430:VAL:O	1:B:434:ILE:HG13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.38	0.58
1:D:12:THR:O	1:D:16:GLU:HG2	2.03	0.58
1:D:701:ARG:NH1	1:D:1610:ARG:NH2	2.51	0.58
1:D:435:GLN:HG2	1:D:701:ARG:O	2.03	0.58
1:F:1647:ASP:HB2	1:F:1649:ALA:HB3	1.85	0.58
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.38	0.58
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.17	0.58
2:G:2032:PRO:C	2:G:2036:ILE:HG13	2.24	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.03	0.58
2:H:779:GLY:HA3	2:H:811:MET:CE	2.34	0.58
2:I:1887:ASN:H	2:I:1994:ALA:HB1	1.66	0.58
2:I:305:ALA:O	2:I:309:LYS:HD3	2.03	0.58
2:I:549:ASN:HD22	2:I:550:THR:N	2.00	0.58
2:J:856:THR:HA	2:J:865:ILE:O	2.04	0.58
2:J:99:LEU:O	2:J:103:LYS:HG3	2.03	0.58
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.03	0.58
2:K:117:ASN:OD1	2:K:561:ARG:HG3	2.02	0.58
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.84	0.58
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.85	0.58
2:K:48:LEU:HD13	2:K:83:VAL:HG22	1.85	0.58
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.33	0.58
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.30	0.58
2:L:726:GLN:O	2:L:730:ILE:HG12	2.03	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
1:A:450:TYR:CE1	1:A:1551:ASN:HB2	2.38	0.58
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.39	0.58
1:B:715:ASN:HD22	1:B:717:GLY:H	1.51	0.58
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.84	0.58
1:C:445:LEU:HD11	1:C:481:LEU:HD11	1.85	0.58
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.85	0.58
1:D:1443:LEU:HD11	1:D:1470:ARG:HB3	1.84	0.58
1:D:1574:LEU:CD1	1:D:1622:VAL:HG11	2.33	0.58
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.24	0.58
1:F:970:LEU:HD21	1:F:1658:VAL:HG11	1.84	0.58
2:G:1346:MET:HB2	2:G:1427:MET:CE	2.33	0.58
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.33	0.58
2:G:549:ASN:HD22	2:G:550:THR:N	2.01	0.58
2:G:856:THR:HG23	2:G:866:HIS:CD2	2.39	0.58
2:H:215:TRP:O	2:H:218:VAL:HG22	2.03	0.58
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:726:GLN:O	2:H:730:ILE:HG12	2.03	0.58
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.43	0.58
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.38	0.58
2:J:1804:GLN:HG2	2:J:1865:LEU:HD23	1.85	0.58
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	1.84	0.58
2:K:1866:THR:HA	2:K:1869:VAL:HG22	1.85	0.58
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.58
2:L:240:THR:O	2:L:244:VAL:HG23	2.04	0.58
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.09	0.58
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.18	0.58
1:A:1587:PRO:HA	1:A:1611:SER:OG	2.04	0.58
1:A:70:ALA:O	2:I:403:LEU:HD12	2.04	0.58
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.84	0.58
1:C:1432:ILE:HD11	1:C:1481:GLN:HB3	1.84	0.58
1:C:1495:ARG:NH1	1:F:992:LYS:HE2	2.17	0.58
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.85	0.58
1:D:1142:LEU:HD12	1:D:1142:LEU:H	1.67	0.58
1:D:983:GLN:HB3	1:D:1418:ILE:HD13	1.85	0.58
2:G:1499:LYS:HD3	2:G:1534:GLU:OE1	2.03	0.58
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.67	0.58
2:G:215:TRP:O	2:G:218:VAL:HG22	2.04	0.58
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.84	0.58
2:H:626:TYR:N	2:H:656:ARG:HH22	2.01	0.58
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.38	0.58
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.84	0.58
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.19	0.58
2:K:609:THR:O	2:K:613:VAL:HB	2.03	0.58
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.03	0.58
2:L:723:ALA:O	2:L:726:GLN:HB2	2.04	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.24	0.58
1:B:335:LEU:HD12	1:B:335:LEU:C	2.24	0.58
1:C:970:LEU:HD21	1:C:1658:VAL:HG11	1.85	0.58
1:C:999:LEU:HD11	1:C:1575:ASN:HB3	1.86	0.58
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.58
1:E:1493:PHE:HE2	1:E:1509:THR:HG22	1.65	0.58
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.85	0.58
1:F:1310:PHE:CE1	1:F:1315:SER:HB2	2.38	0.58
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.33	0.58
2:G:1521:GLU:OE2	2:G:2028:THR:CG2	2.51	0.58
2:G:1896:THR:HG22	2:G:1897:GLU:N	2.17	0.58
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1896:THR:HG22	2:H:1897:GLU:N	2.17	0.58
2:H:384:ASN:HB3	2:H:527:LEU:HD11	1.85	0.58
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.85	0.58
2:I:1802:ALA:HB1	2:I:1804:GLN:NE2	2.15	0.58
2:I:1694:PHE:HD2	2:I:1843:ALA:HB2	1.69	0.58
2:I:215:TRP:O	2:I:218:VAL:HG22	2.03	0.58
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.67	0.58
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.85	0.58
2:J:600:VAL:HG22	2:J:601:PRO:HD2	1.84	0.58
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.67	0.58
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.33	0.58
2:K:331:LEU:HD22	2:K:396:ILE:HG13	1.85	0.58
2:K:472:THR:H	2:K:493:MET:HE3	1.69	0.58
2:K:595:SER:CB	2:K:602:PRO:HG3	2.26	0.58
2:K:663:ILE:HD12	2:K:663:ILE:H	1.69	0.58
2:L:1478:GLN:HG2	2:L:1523:ILE:HG21	1.85	0.58
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.03	0.58
2:L:661:ASN:HD21	3:L:2101:FMN:HN3	1.50	0.58
2:L:459:LYS:HB3	2:L:485:ASP:OD1	2.04	0.58
1:B:1078:ILE:HB	1:B:1338:GLY:HA2	1.84	0.58
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.68	0.58
1:D:1647:ASP:HB2	1:D:1649:ALA:HB3	1.85	0.58
1:D:445:LEU:HD11	1:D:481:LEU:HD11	1.86	0.58
1:D:613:PRO:O	1:D:614:PHE:HB2	2.04	0.58
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.58
1:E:959:PRO:HB3	2:K:972:SER:HA	1.85	0.58
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.68	0.58
1:D:356:LYS:NZ	1:F:1143:ARG:HH21	2.02	0.58
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.85	0.58
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.85	0.58
1:F:715:ASN:HD22	1:F:717:GLY:H	1.52	0.58
2:G:493:MET:HA	2:G:497:ASP:HB2	1.85	0.58
2:G:884:PHE:HE2	2:G:1039:GLU:HA	1.69	0.58
2:H:876:TRP:C	2:H:876:TRP:CD1	2.76	0.58
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.58	0.58
2:I:2052:LYS:HB3	2:I:2074:TRP:CD2	2.39	0.58
2:I:663:ILE:CD1	2:I:663:ILE:H	2.17	0.58
2:I:705:TYR:HA	2:I:709:LEU:HD21	1.85	0.58
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.03	0.58
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.33	0.58
2:K:1179:GLU:HA	2:K:1190:ASN:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.04	0.58
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.04	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.87	0.58
2:K:581:VAL:HG11	2:K:1113:ILE:HD11	1.86	0.58
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.86	0.58
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.03	0.58
2:L:1881:TYR:CB	2:L:2004:PRO:HG3	2.34	0.58
2:L:298:ALA:CB	2:L:304:PHE:HA	2.33	0.58
1:A:342:ILE:HD11	1:D:342:ILE:HD11	1.86	0.58
1:B:999:LEU:HD21	1:B:1575:ASN:CG	2.24	0.58
1:B:999:LEU:HD11	1:B:1575:ASN:HB3	1.85	0.58
1:B:827:ARG:NH1	1:B:831:GLU:OE2	2.37	0.58
1:C:1078:ILE:HB	1:C:1338:GLY:HA2	1.83	0.58
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.85	0.58
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.69	0.58
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.32	0.58
2:G:1938:THR:O	2:G:1942:VAL:HG23	2.03	0.58
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.09	0.58
2:H:1259:LEU:HD23	2:H:1288:PHE:HB2	1.86	0.58
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.84	0.58
2:I:81:ALA:HB2	2:I:139:ALA:HA	1.85	0.58
2:I:1466:VAL:O	2:I:1470:LYS:HG2	2.04	0.58
2:I:1679:LEU:O	2:I:1680:GLN:HG3	2.04	0.58
2:I:1767:GLU:HB2	2:I:2016:PRO:CG	2.20	0.58
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.85	0.58
2:I:626:TYR:N	2:I:656:ARG:HH22	2.01	0.58
2:I:916:GLY:C	2:I:929:MET:HE2	2.24	0.58
2:J:196:PHE:CD2	2:J:266:LYS:HB3	2.39	0.58
2:K:251:PRO:CG	2:K:316:PHE:HA	2.32	0.58
2:K:37:VAL:HG12	2:K:38:PRO:O	2.03	0.58
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.32	0.58
2:K:709:LEU:H	2:K:709:LEU:HD23	1.68	0.58
2:K:942:MET:CE	2:K:955:LEU:HB3	2.33	0.58
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.85	0.58
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.17	0.58
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.03	0.58
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.38	0.58
1:B:623:PHE:N	1:B:623:PHE:CD2	2.72	0.58
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.04	0.58
1:D:1108:PRO:HG3	1:D:1141:ARG:NE	2.16	0.58
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:524:LYS:HB3	1:D:528:GLU:OE2	2.03	0.58
2:G:1887:ASN:H	2:G:1994:ALA:HB1	1.68	0.58
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.38	0.58
2:G:876:TRP:CD1	2:G:876:TRP:C	2.77	0.58
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.87	0.58
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.04	0.58
2:H:600:VAL:HG22	2:H:601:PRO:HD2	1.85	0.58
2:H:663:ILE:H	2:H:663:ILE:HD12	1.69	0.58
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.90	0.58
2:I:37:VAL:HG12	2:I:38:PRO:O	2.03	0.58
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.64	0.58
2:I:540:ILE:HD13	2:I:557:GLU:HB3	1.85	0.58
2:J:305:ALA:O	2:J:309:LYS:HD3	2.04	0.58
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.58
2:K:931:TYR:O	2:K:935:VAL:HG12	2.03	0.58
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.85	0.58
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.04	0.58
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.85	0.58
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.03	0.58
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.85	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.84	0.58
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.19	0.58
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.85	0.58
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.85	0.58
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.86	0.58
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.86	0.58
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.39	0.58
1:E:1602:PHE:N	1:E:1602:PHE:CD2	2.72	0.58
1:F:1574:LEU:HD12	1:F:1622:VAL:HG11	1.84	0.58
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.85	0.58
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.86	0.58
2:G:1375:HIS:CE1	2:G:1610:MET:SD	2.94	0.58
2:G:1960:MET:HB3	2:G:1964:ASP:CB	2.34	0.58
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.38	0.58
2:G:489:GLU:O	2:G:493:MET:HG3	2.03	0.58
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.08	0.58
2:H:930:THR:HG22	2:H:933:GLU:CG	2.33	0.58
2:I:352:SER:HB2	2:I:433:LEU:HD21	1.86	0.58
2:I:779:GLY:HA3	2:I:811:MET:CE	2.33	0.58
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.33	0.58
2:J:794:GLY:O	2:J:804:PRO:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.02	0.58
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.16	0.58
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.69	0.58
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.18	0.58
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.04	0.57
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.39	0.57
1:C:827:ARG:NH1	1:C:831:GLU:OE2	2.36	0.57
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.68	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.86	0.57
2:G:1259:LEU:HD23	2:G:1288:PHE:HB2	1.86	0.57
2:G:1289:TYR:HB2	2:G:1370:LEU:HD23	1.86	0.57
2:G:1442:TYR:HA	2:G:1445:THR:HG22	1.86	0.57
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.18	0.57
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.39	0.57
2:G:515:ASP:HB3	2:G:541:LEU:HD23	1.85	0.57
2:G:60:THR:HG22	2:G:62:GLU:H	1.70	0.57
2:G:856:THR:HA	2:G:865:ILE:O	2.04	0.57
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.39	0.57
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.39	0.57
2:J:1171:TRP:HB3	2:J:1265:TYR:CE1	2.39	0.57
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.04	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.04	0.57
2:J:459:LYS:HB3	2:J:485:ASP:OD1	2.03	0.57
2:K:2032:PRO:C	2:K:2036:ILE:HG13	2.24	0.57
1:A:339:GLN:O	1:A:343:ILE:HG13	2.04	0.57
1:A:560:LYS:O	1:A:564:LEU:HB2	2.03	0.57
1:B:1218:VAL:HG13	1:B:1301:VAL:CG1	2.34	0.57
1:B:1310:PHE:CE1	1:B:1315:SER:HB2	2.39	0.57
1:B:1602:PHE:CD2	1:B:1602:PHE:N	2.71	0.57
1:D:383:TYR:O	1:D:387:ILE:HG23	2.04	0.57
1:D:397:ARG:NH1	1:D:692:THR:HG21	2.18	0.57
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.85	0.57
2:H:1887:ASN:H	2:H:1994:ALA:HB1	1.69	0.57
2:H:290:VAL:HG11	2:H:315:LEU:HD13	1.85	0.57
2:H:298:ALA:CB	2:H:304:PHE:HA	2.34	0.57
2:H:134:ILE:HG12	2:H:545:ILE:CD1	2.34	0.57
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.84	0.57
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.68	0.57
2:K:215:TRP:O	2:K:218:VAL:HG22	2.04	0.57
2:K:298:ALA:CB	2:K:304:PHE:HA	2.33	0.57
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.85	0.57
2:L:48:LEU:HD13	2:L:83:VAL:HG22	1.84	0.57
2:L:930:THR:HG22	2:L:933:GLU:CG	2.34	0.57
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.37	0.57
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.69	0.57
1:B:617:LEU:HD11	1:B:636:TYR:HB2	1.86	0.57
1:E:926:SER:O	1:E:930:GLN:HG2	2.04	0.57
2:G:775:VAL:O	2:G:777:VAL:HG23	2.04	0.57
2:H:609:THR:O	2:H:613:VAL:HB	2.04	0.57
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.85	0.57
2:I:1478:GLN:HG2	2:I:1523:ILE:HG21	1.86	0.57
2:I:240:THR:O	2:I:244:VAL:HG23	2.04	0.57
2:I:384:ASN:O	2:I:527:LEU:HD21	2.03	0.57
2:I:609:THR:O	2:I:613:VAL:HB	2.04	0.57
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.34	0.57
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.84	0.57
2:J:1478:GLN:HG2	2:J:1523:ILE:HG21	1.86	0.57
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.38	0.57
2:K:290:VAL:HG11	2:K:315:LEU:HD13	1.86	0.57
2:L:1239:ASP:OD1	2:L:1240:ASN:N	2.35	0.57
1:A:828:TRP:HE1	1:A:838:THR:HA	1.68	0.57
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	1.85	0.57
1:C:340:LEU:HD21	1:D:340:LEU:HD21	1.86	0.57
1:D:1106:LEU:HD23	1:D:1107:GLU:H	1.68	0.57
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.04	0.57
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.86	0.57
2:G:1315:ILE:HD12	2:G:1315:ILE:H	1.69	0.57
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.85	0.57
2:G:305:ALA:O	2:G:309:LYS:HD3	2.03	0.57
2:G:37:VAL:HG12	2:G:38:PRO:O	2.03	0.57
2:G:930:THR:HG22	2:G:933:GLU:CG	2.34	0.57
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.66	0.57
2:H:1976:CYS:O	2:H:1980:THR:HG23	2.04	0.57
2:H:448:HIS:HD2	2:H:491:VAL:HG12	1.68	0.57
2:H:549:ASN:HD22	2:H:550:THR:N	2.01	0.57
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.66	0.57
2:H:743:TRP:CE2	2:H:761:ILE:HD11	2.38	0.57
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.87	0.57
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.02	0.57
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.70	0.57
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:515:ASP:HB3	2:I:541:LEU:HD23	1.86	0.57
2:I:621:THR:HG21	2:I:628:ILE:HD12	1.85	0.57
2:J:1346:MET:HB2	2:J:1427:MET:CE	2.33	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.35	0.57
2:K:1466:VAL:O	2:K:1470:LYS:HG2	2.04	0.57
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.19	0.57
2:K:1706:MET:O	2:K:1709:TYR:HB3	2.03	0.57
2:K:1896:THR:HG22	2:K:1897:GLU:N	2.19	0.57
2:K:2052:LYS:HB3	2:K:2074:TRP:CD2	2.40	0.57
2:K:765:TYR:CB	2:K:805:MET:HE3	2.34	0.57
2:K:884:PHE:HE2	2:K:1039:GLU:HA	1.69	0.57
2:L:305:ALA:O	2:L:309:LYS:HD3	2.05	0.57
2:L:709:LEU:HD23	2:L:709:LEU:H	1.69	0.57
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.38	0.57
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.86	0.57
1:B:22:PHE:O	2:H:2006:HIS:HA	2.04	0.57
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.57
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.86	0.57
1:E:445:LEU:HD11	1:E:481:LEU:HD11	1.86	0.57
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.87	0.57
2:G:240:THR:O	2:G:244:VAL:HG23	2.04	0.57
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.35	0.57
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.39	0.57
2:H:1679:LEU:O	2:H:1680:GLN:HG3	2.03	0.57
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.86	0.57
1:C:47:ILE:HB	2:I:1694:PHE:HD1	1.70	0.57
1:C:23:ALA:HA	2:I:2007:SER:O	2.05	0.57
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.37	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.87	0.57
2:J:1881:TYR:CG	2:J:2004:PRO:HG3	2.39	0.57
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.68	0.57
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.34	0.57
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.19	0.57
2:L:2032:PRO:C	2:L:2036:ILE:HG13	2.24	0.57
2:L:916:GLY:C	2:L:929:MET:HE1	2.25	0.57
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.04	0.57
1:B:1573:MET:HE2	1:B:1622:VAL:HG23	1.86	0.57
1:B:12:THR:O	1:B:16:GLU:HG2	2.04	0.57
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.85	0.57
1:B:17:LEU:HD22	2:H:2041:PRO:HB3	1.87	0.57
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1381:MET:HG2	1:D:1382:THR:N	2.18	0.57
1:D:999:LEU:HD11	1:D:1575:ASN:HB3	1.85	0.57
1:E:1052:ASP:HB3	1:E:1055:THR:O	2.04	0.57
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.40	0.57
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.85	0.57
1:E:1470:ARG:O	1:E:1474:ILE:HG13	2.05	0.57
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.20	0.57
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.40	0.57
1:F:619:LYS:HG2	1:F:620:LYS:H	1.69	0.57
1:F:926:SER:O	1:F:930:GLN:HG2	2.03	0.57
2:G:1745:LEU:HB3	2:G:1799:LEU:HD22	1.87	0.57
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.65	0.57
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.39	0.57
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.17	0.57
2:H:1804:GLN:HG2	2:H:1865:LEU:HD23	1.87	0.57
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.05	0.57
2:H:747:ARG:NH1	2:H:780:SER:O	2.37	0.57
2:H:76:VAL:O	2:H:80:ILE:HG13	2.03	0.57
2:H:765:TYR:CB	2:H:805:MET:HE3	2.34	0.57
2:I:1130:ILE:HG21	2:I:1155:PRO:HB3	1.86	0.57
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.85	0.57
2:I:1944:ASN:HA	2:I:1993:PHE:CD1	2.39	0.57
2:I:661:ASN:HD21	3:I:2101:FMN:HN3	1.52	0.57
2:I:440:HIS:CD2	2:I:499:VAL:CG2	2.87	0.57
2:J:1340:LYS:HE3	2:L:373:PRO:CG	2.34	0.57
2:K:448:HIS:HD2	2:K:491:VAL:CG1	2.18	0.57
2:K:76:VAL:O	2:K:80:ILE:HG13	2.05	0.57
2:L:1896:THR:HG22	2:L:1897:GLU:N	2.20	0.57
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.19	0.57
1:A:435:GLN:HG2	1:A:701:ARG:O	2.04	0.57
1:C:1386:THR:HB	1:F:1269:SER:O	2.04	0.57
1:C:1573:MET:HE2	1:C:1622:VAL:HG23	1.85	0.57
1:C:1697:LEU:O	1:C:1699:PRO:HD3	2.04	0.57
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.05	0.57
2:G:384:ASN:HB3	2:G:527:LEU:HD11	1.85	0.57
2:G:610:PRO:CD	3:G:2101:FMN:H6	2.33	0.57
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.87	0.57
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.70	0.57
2:I:1966:ARG:O	2:I:1970:VAL:HG23	2.04	0.57
2:I:489:GLU:O	2:I:493:MET:HG3	2.05	0.57
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.04	0.57
2:K:726:GLN:O	2:K:730:ILE:HG12	2.04	0.57
2:L:747:ARG:NH1	2:L:780:SER:O	2.37	0.57
1:B:1106:LEU:HD23	1:B:1107:GLU:N	2.20	0.57
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.40	0.57
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.87	0.57
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.86	0.57
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.87	0.57
1:E:689:ARG:NH2	1:E:1591:ASN:ND2	2.50	0.57
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.40	0.57
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.70	0.57
2:G:1478:GLN:HG2	2:G:1523:ILE:HG21	1.87	0.57
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.67	0.57
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.67	0.57
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.02	0.57
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.69	0.57
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.19	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.05	0.57
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.38	0.57
2:J:215:TRP:O	2:J:218:VAL:HG22	2.04	0.57
2:J:448:HIS:HD2	2:J:491:VAL:CG1	2.16	0.57
2:J:740:ILE:HD12	2:J:740:ILE:H	1.70	0.57
2:K:1194:ARG:HD2	2:K:1598:SER:O	2.04	0.57
1:A:999:LEU:HD21	1:A:1575:ASN:CG	2.24	0.57
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.56	0.57
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	1.87	0.57
1:C:457:THR:HG22	1:C:464:GLN:HA	1.87	0.57
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.04	0.57
1:D:1425:LEU:CD2	1:D:1429:ARG:HH21	2.14	0.57
1:D:1523:HIS:HB2	1:D:1624:SER:HA	1.85	0.57
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.39	0.57
1:F:628:TYR:CE1	1:F:630:LYS:HG2	2.40	0.57
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.86	0.57
2:G:1130:ILE:HG21	2:G:1155:PRO:HB3	1.87	0.57
2:G:845:ASN:HD21	2:G:849:ARG:HH11	1.52	0.57
2:H:1694:PHE:HD2	2:H:1843:ALA:HB2	1.69	0.57
2:H:1867:MET:O	2:H:2003:VAL:HG21	2.05	0.57
2:H:794:GLY:O	2:H:804:PRO:HA	2.04	0.57
2:I:676:LEU:HD23	2:I:679:ARG:HH21	1.70	0.57
2:J:1175:MET:HE3	2:J:1192:LEU:HD11	1.86	0.57
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:117:ASN:OD1	2:J:561:ARG:HG3	2.05	0.57
2:J:765:TYR:CB	2:J:805:MET:HE3	2.34	0.57
2:J:856:THR:HG23	2:J:866:HIS:CD2	2.40	0.57
2:J:962:PHE:O	2:J:966:VAL:HG23	2.05	0.57
2:K:68:GLU:HB3	2:K:69:PRO:CD	2.34	0.57
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.87	0.57
2:L:1962:LEU:O	2:L:1966:ARG:HB3	2.05	0.57
1:D:70:ALA:HB2	2:L:407:LYS:HZ2	1.68	0.57
2:L:856:THR:HA	2:L:865:ILE:O	2.05	0.57
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.87	0.57
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.85	0.57
1:B:35:ILE:HD13	2:H:1691:ALA:HB1	1.87	0.57
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.66	0.57
1:C:88:ILE:HG21	2:I:1821:MET:HE1	1.87	0.57
1:D:1573:MET:HE2	1:D:1622:VAL:HG23	1.86	0.57
1:D:408:GLN:HE22	1:D:1609:SER:H	1.51	0.57
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.16	0.57
1:C:1269:SER:O	1:F:1386:THR:HB	2.05	0.57
1:F:383:TYR:O	1:F:387:ILE:HG23	2.04	0.57
1:F:430:VAL:O	1:F:434:ILE:HG13	2.04	0.57
2:G:440:HIS:HD2	2:G:497:ASP:O	1.87	0.57
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.22	0.57
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.34	0.57
2:H:486:ILE:O	2:H:490:LEU:HG	2.04	0.57
2:H:540:ILE:HD13	2:H:557:GLU:HB3	1.87	0.57
2:J:1887:ASN:H	2:J:1994:ALA:HB1	1.69	0.57
2:J:540:ILE:HD13	2:J:557:GLU:HB3	1.86	0.57
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.70	0.57
2:K:1223:SER:CB	2:K:1226:ALA:HB3	2.34	0.57
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.40	0.57
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.05	0.57
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.86	0.57
2:L:1217:ILE:HD12	2:L:1234:ILE:HD12	1.87	0.57
2:L:541:LEU:HG	2:L:552:VAL:HG11	1.87	0.57
1:A:1565:PRO:O	1:A:1566:LYS:C	2.43	0.56
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.39	0.56
1:C:1381:MET:HG2	1:C:1382:THR:N	2.19	0.56
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.87	0.56
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.66	0.56
1:E:1214:HIS:CD2	1:E:1216:SER:OG	2.57	0.56
1:E:1536:ASP:N	1:E:1602:PHE:HE1	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:332:GLN:O	1:F:335:LEU:HB3	2.05	0.56
2:G:1061:VAL:HG12	2:G:1066:ILE:HD11	1.86	0.56
2:H:472:THR:H	2:H:493:MET:HE3	1.70	0.56
2:H:515:ASP:HB3	2:H:541:LEU:HD23	1.87	0.56
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.40	0.56
2:I:884:PHE:HE2	2:I:1039:GLU:HA	1.70	0.56
2:I:1475:LEU:HD11	2:I:1483:LEU:HD11	1.87	0.56
2:I:608:MET:H	2:I:612:THR:CB	2.18	0.56
2:J:158:LEU:HD22	2:J:169:ILE:HD11	1.87	0.56
2:J:661:ASN:HD21	3:J:2101:FMN:HN3	1.52	0.56
2:J:917:ARG:HD3	2:J:921:GLY:O	2.05	0.56
2:J:934:VAL:O	2:J:938:MET:HG3	2.05	0.56
2:K:1299:VAL:CG2	2:K:1301:PHE:CE2	2.87	0.56
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.86	0.56
2:K:1726:PHE:CZ	2:K:1857:VAL:HB	2.40	0.56
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.39	0.56
2:K:485:ASP:HB3	2:K:488:PRO:CD	2.33	0.56
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.40	0.56
2:L:1499:LYS:CG	2:L:1500:ASN:N	2.67	0.56
2:L:1804:GLN:HG2	2:L:1865:LEU:HD23	1.85	0.56
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.86	0.56
1:C:1602:PHE:CD2	1:C:1602:PHE:N	2.72	0.56
1:C:689:ARG:CZ	1:C:1339:GLU:HG2	2.35	0.56
1:C:767:HIS:NE2	1:C:771:LEU:HD23	2.20	0.56
1:D:498:THR:HG22	1:D:508:TYR:HD1	1.70	0.56
1:E:1363:MET:HE3	1:E:1368:ALA:HA	1.87	0.56
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.51	0.56
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.40	0.56
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.05	0.56
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.20	0.56
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.20	0.56
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.39	0.56
2:H:126:VAL:HG12	2:H:127:ALA:H	1.70	0.56
2:H:1985:GLN:HG3	2:H:1986:PRO:CD	2.30	0.56
2:I:1602:LEU:HD13	2:I:1606:ILE:CD1	2.35	0.56
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.35	0.56
2:I:440:HIS:CD2	2:I:499:VAL:HG23	2.40	0.56
2:I:791:TYR:HA	2:I:796:TRP:CD1	2.40	0.56
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.39	0.56
2:J:485:ASP:HB3	2:J:488:PRO:CD	2.32	0.56
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:663:ILE:CD1	2:J:663:ILE:H	2.18	0.56
2:J:726:GLN:O	2:J:730:ILE:HG12	2.04	0.56
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.21	0.56
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.35	0.56
2:L:1130:ILE:HG21	2:L:1155:PRO:HB3	1.87	0.56
2:L:1888:PRO:HB3	2:L:1895:PHE:CD1	2.38	0.56
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.06	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:CD1	2.40	0.56
2:L:719:GLY:O	2:L:755:GLU:HG3	2.06	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.37	0.56
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.87	0.56
1:B:498:THR:HG21	1:B:858:LEU:O	2.06	0.56
1:C:1444:GLN:OE1	1:C:1444:GLN:HA	2.05	0.56
1:C:1638:HIS:ND1	1:C:1639:PRO:HD2	2.19	0.56
1:C:498:THR:HG21	1:C:858:LEU:O	2.05	0.56
1:C:726:VAL:HG21	1:C:780:ALA:HB3	1.87	0.56
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.36	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.34	0.56
1:E:47:ILE:HB	2:K:1694:PHE:CD1	2.40	0.56
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.87	0.56
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.34	0.56
2:G:2052:LYS:HB3	2:G:2074:TRP:CD2	2.41	0.56
2:H:1008:ILE:HD12	2:H:1013:VAL:HG22	1.85	0.56
2:H:1223:SER:CB	2:H:1226:ALA:HB3	2.34	0.56
2:H:1335:PHE:CE1	2:H:1629:ILE:HD11	2.40	0.56
2:H:1475:LEU:HD11	2:H:1483:LEU:HD11	1.87	0.56
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.71	0.56
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	1.85	0.56
2:I:931:TYR:O	2:I:935:VAL:HG12	2.05	0.56
2:J:144:ARG:HH21	2:J:151:PRO:HA	1.70	0.56
2:K:190:TYR:HE1	2:K:201:ILE:HG21	1.70	0.56
2:K:934:VAL:O	2:K:938:MET:HG3	2.05	0.56
2:L:1977:ARG:HD2	2:L:1978:LYS:HG3	1.88	0.56
2:L:21:LEU:HD22	2:L:36:LEU:HD22	1.87	0.56
2:L:493:MET:HA	2:L:497:ASP:HB2	1.87	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.40	0.56
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.88	0.56
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.40	0.56
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.39	0.56
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.40	0.56
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.35	0.56
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.41	0.56
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.87	0.56
2:H:1726:PHE:CZ	2:H:1857:VAL:HB	2.40	0.56
2:H:661:ASN:HD21	3:H:2101:FMN:HN3	1.52	0.56
2:H:24:LEU:HD11	2:H:45:ALA:HB1	1.87	0.56
2:I:1179:GLU:HA	2:I:1190:ASN:CB	2.35	0.56
2:I:215:TRP:CE3	2:I:216:ASP:N	2.67	0.56
2:J:1622:THR:HG23	2:J:1627:ASN:OD1	2.04	0.56
2:K:2052:LYS:H	2:K:2052:LYS:CE	2.09	0.56
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.39	0.56
1:A:767:HIS:NE2	1:A:771:LEU:HD23	2.21	0.56
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.71	0.56
1:B:1565:PRO:O	1:B:1567:GLY:N	2.38	0.56
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.88	0.56
1:C:1280:CYS:HB2	1:C:1626:GLY:HA2	1.87	0.56
1:C:623:PHE:CD2	1:C:623:PHE:N	2.73	0.56
1:D:1078:ILE:HD13	1:D:1352:MET:HG2	1.86	0.56
1:D:1565:PRO:HG3	1:D:1572:TRP:CH2	2.40	0.56
1:D:47:ILE:HD12	2:J:1818:PHE:HD1	1.69	0.56
1:D:962:ASN:HD22	2:J:1006:GLN:NE2	2.04	0.56
1:F:1081:ILE:HG13	1:F:1159:LEU:O	2.05	0.56
2:G:652:ILE:HG23	2:G:653:PRO:HD2	1.87	0.56
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.87	0.56
2:H:118:ASP:OD2	2:H:559:PHE:HB2	2.06	0.56
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.19	0.56
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.36	0.56
2:H:472:THR:HG23	2:H:499:VAL:HA	1.87	0.56
2:H:616:ASP:OD2	2:H:823:HIS:CE1	2.58	0.56
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.41	0.56
2:I:1171:TRP:HB3	2:I:1265:TYR:CE1	2.40	0.56
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.28	0.56
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.18	0.56
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.20	0.56
2:I:1866:THR:HA	2:I:1869:VAL:CG2	2.36	0.56
2:J:931:TYR:O	2:J:935:VAL:HG12	2.05	0.56
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.87	0.56
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.56
2:L:1346:MET:HB2	2:L:1427:MET:CE	2.35	0.56
2:L:1866:THR:HA	2:L:1869:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:68:GLU:HB3	2:L:69:PRO:CD	2.36	0.56
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.87	0.56
1:A:433:CYS:O	1:A:437:MET:HG3	2.06	0.56
1:C:999:LEU:HD21	1:C:1575:ASN:CG	2.25	0.56
1:E:1142:LEU:HD12	1:E:1142:LEU:H	1.70	0.56
1:E:999:LEU:HD21	1:E:1575:ASN:CG	2.25	0.56
1:A:1388:LYS:HD3	1:E:1692:GLN:HE22	1.70	0.56
1:E:551:LEU:C	1:E:551:LEU:HD23	2.25	0.56
1:F:621:ASP:CB	1:F:625:ASN:HB2	2.36	0.56
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.05	0.56
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.20	0.56
2:G:1866:THR:HA	2:G:1869:VAL:HG22	1.86	0.56
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.87	0.56
2:G:938:MET:HB3	2:G:959:THR:HG22	1.88	0.56
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.88	0.56
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.71	0.56
2:I:857:VAL:HG13	2:I:876:TRP:HE1	1.70	0.56
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.36	0.56
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.06	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.18	0.56
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.87	0.56
2:K:1694:PHE:HD2	2:K:1843:ALA:HB2	1.70	0.56
2:K:1938:THR:O	2:K:1942:VAL:HG23	2.05	0.56
2:K:1977:ARG:HD2	2:K:1978:LYS:HG3	1.88	0.56
2:K:845:ASN:HD21	2:K:849:ARG:HH11	1.53	0.56
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.40	0.56
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.40	0.56
2:L:1960:MET:HB3	2:L:1964:ASP:CB	2.35	0.56
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.67	0.56
2:L:606:ALA:HB2	2:L:811:MET:CG	2.35	0.56
1:A:1052:ASP:HB3	1:A:1055:THR:O	2.05	0.56
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.69	0.56
1:A:1523:HIS:HB2	1:A:1624:SER:HA	1.88	0.56
1:A:18:LEU:HD21	2:G:1844:LEU:HD11	1.88	0.56
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.87	0.56
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.05	0.56
1:D:1493:PHE:CE2	1:D:1509:THR:HG22	2.40	0.56
1:D:415:TYR:O	1:D:419:PHE:HD1	1.88	0.56
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.04	0.56
2:G:661:ASN:HD21	3:G:2101:FMN:HN3	1.51	0.56
2:H:37:VAL:HG12	2:H:38:PRO:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.35	0.56
2:I:1217:ILE:HD12	2:I:1234:ILE:HD12	1.87	0.56
2:K:1097:PHE:HD2	2:K:1100:ARG:HH12	1.52	0.56
2:K:1305:LEU:HD12	2:K:1305:LEU:H	1.69	0.56
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.38	0.56
2:K:31:LEU:HD13	2:K:75:LEU:HD21	1.88	0.56
2:L:868:LEU:O	2:L:870:THR:HG23	2.06	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:H	1.68	0.56
1:C:1230:SER:HA	1:C:1311:GLN:NE2	2.20	0.56
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.88	0.56
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.40	0.56
1:D:1602:PHE:CD2	1:D:1602:PHE:N	2.74	0.56
1:D:651:GLN:HA	1:D:677:GLY:HA3	1.87	0.56
1:F:1443:LEU:HD11	1:F:1470:ARG:HB3	1.87	0.56
1:F:682:VAL:HG11	1:F:695:TYR:CE2	2.40	0.56
2:G:1217:ILE:HD12	2:G:1234:ILE:HD12	1.88	0.56
2:G:1475:LEU:HD11	2:G:1483:LEU:HD11	1.87	0.56
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.87	0.56
2:G:2059:HIS:ND1	2:G:2067:ILE:HG22	2.20	0.56
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.33	0.56
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.59	0.56
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.06	0.56
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.35	0.56
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.36	0.56
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.24	0.56
2:H:779:GLY:O	2:H:780:SER:CB	2.52	0.56
2:I:1976:CYS:O	2:I:1980:THR:HG23	2.05	0.56
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.08	0.56
2:I:600:VAL:HG22	2:I:601:PRO:HD2	1.87	0.56
2:I:924:VAL:HG12	2:I:925:ASP:H	1.70	0.56
2:I:962:PHE:O	2:I:966:VAL:HG23	2.06	0.56
2:J:215:TRP:CE3	2:J:216:ASP:N	2.68	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD21	1.70	0.56
2:K:1516:GLU:HA	2:K:1521:GLU:O	2.06	0.56
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.87	0.56
2:L:1346:MET:HB2	2:L:1427:MET:HE3	1.88	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.40	0.56
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.41	0.56
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.41	0.56
1:B:1580:VAL:HG22	1:B:1585:ILE:O	2.06	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	1.88	0.56
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.88	0.56
1:D:855:ALA:HA	1:D:919:ARG:NH2	2.18	0.56
1:E:701:ARG:NH1	1:E:1610:ARG:HH21	2.04	0.56
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.41	0.56
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.05	0.56
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.88	0.56
2:G:540:ILE:HD13	2:G:557:GLU:HB3	1.87	0.56
2:G:606:ALA:HB2	2:G:811:MET:CG	2.36	0.56
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.87	0.56
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.28	0.56
2:J:1299:VAL:CG2	2:J:1301:PHE:CE2	2.87	0.56
2:J:1706:MET:O	2:J:1709:TYR:HB3	2.06	0.56
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.69	0.56
2:J:709:LEU:HD23	2:J:709:LEU:H	1.71	0.56
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.06	0.56
2:K:1290:TYR:CD1	2:K:1299:VAL:HG12	2.41	0.56
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.05	0.56
2:L:636:TYR:HD1	2:L:636:TYR:N	2.04	0.56
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.40	0.56
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.87	0.56
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.87	0.56
1:A:1470:ARG:O	1:A:1474:ILE:HG13	2.05	0.56
1:A:883:LEU:N	1:A:883:LEU:HD23	2.20	0.56
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.06	0.56
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.87	0.56
1:B:1470:ARG:O	1:B:1474:ILE:HG13	2.06	0.56
1:C:1610:ARG:HH11	1:C:1610:ARG:CG	1.97	0.56
1:C:397:ARG:NH1	1:C:692:THR:HG21	2.20	0.56
1:E:1161:ALA:O	1:E:1163:GLN:HG3	2.06	0.56
1:E:1523:HIS:HB2	1:E:1624:SER:HA	1.88	0.56
1:E:1394:PRO:HB3	1:E:1627:PHE:CE2	2.41	0.56
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.70	0.56
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.86	0.56
2:G:327:PRO:CD	2:H:1338:ARG:NH2	2.64	0.56
2:G:350:MET:CE	2:G:435:ILE:HD12	2.36	0.56
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.88	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.88	0.56
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.06	0.56
2:I:1896:THR:HG22	2:I:1897:GLU:N	2.21	0.56
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.06	0.56
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.19	0.56
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.06	0.56
2:J:595:SER:CB	2:J:602:PRO:HG3	2.27	0.56
2:K:856:THR:HA	2:K:865:ILE:O	2.06	0.56
2:L:1179:GLU:HA	2:L:1190:ASN:CB	2.36	0.56
2:L:636:TYR:CD1	2:L:636:TYR:N	2.74	0.56
1:B:434:ILE:CD1	1:B:490:VAL:HG21	2.34	0.56
1:A:1097:LEU:HD13	1:E:1149:LEU:HD12	1.88	0.56
1:E:11:TYR:O	1:E:15:VAL:HG23	2.06	0.56
1:F:1052:ASP:HB3	1:F:1055:THR:O	2.06	0.56
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.05	0.56
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.38	0.56
1:F:623:PHE:N	1:F:623:PHE:CD2	2.73	0.56
2:G:1440:THR:HG22	2:G:1440:THR:O	2.06	0.56
2:G:1371:LEU:O	2:G:1590:ILE:HD11	2.05	0.56
2:G:827:GLN:NE2	2:G:827:GLN:H	2.03	0.56
2:H:1171:TRP:HB3	2:H:1265:TYR:CE1	2.41	0.56
2:H:331:LEU:HD22	2:H:396:ILE:HG13	1.86	0.56
2:H:68:GLU:HB3	2:H:69:PRO:CD	2.36	0.56
2:H:719:GLY:O	2:H:755:GLU:HG3	2.06	0.56
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.69	0.56
2:I:1335:PHE:HE1	2:I:1629:ILE:HD13	1.70	0.56
2:I:2032:PRO:C	2:I:2036:ILE:HG13	2.26	0.56
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.69	0.56
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.05	0.56
2:I:917:ARG:HD3	2:I:921:GLY:O	2.06	0.56
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.69	0.56
2:K:1962:LEU:O	2:K:1966:ARG:HB3	2.06	0.56
2:K:606:ALA:HB2	2:K:811:MET:CG	2.36	0.56
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.20	0.56
2:L:621:THR:HG21	2:L:628:ILE:HD12	1.88	0.56
1:A:1106:LEU:HD23	1:A:1107:GLU:N	2.21	0.55
1:A:1432:ILE:CD1	1:A:1481:GLN:HB3	2.36	0.55
1:A:383:TYR:O	1:A:387:ILE:HG23	2.06	0.55
1:A:621:ASP:CB	1:A:625:ASN:HB2	2.37	0.55
1:B:1565:PRO:O	1:B:1566:LYS:C	2.45	0.55
1:C:1336:GLU:O	1:C:1340:MET:HG2	2.06	0.55
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.71	0.55
1:F:1490:GLY:O	1:F:1509:THR:HB	2.06	0.55
2:G:159:PHE:CZ	2:G:275:LEU:HD21	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1760:ASN:O	2:G:1764:MET:HG2	2.06	0.55
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.69	0.55
2:G:663:ILE:H	2:G:663:ILE:HD12	1.70	0.55
2:H:1217:ILE:HD12	2:H:1234:ILE:HD12	1.87	0.55
2:I:1962:LEU:O	2:I:1966:ARG:HB3	2.05	0.55
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.68	0.55
2:I:827:GLN:H	2:I:827:GLN:NE2	2.03	0.55
2:J:1178:THR:HG22	2:J:1180:VAL:H	1.71	0.55
2:J:1290:TYR:CD1	2:J:1299:VAL:HG12	2.41	0.55
2:J:1985:GLN:HG3	2:J:1986:PRO:CD	2.27	0.55
2:J:621:THR:HG21	2:J:628:ILE:HD12	1.89	0.55
2:J:876:TRP:CD1	2:J:876:TRP:C	2.79	0.55
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.88	0.55
2:K:21:LEU:HD22	2:K:36:LEU:HD22	1.88	0.55
2:K:608:MET:H	2:K:612:THR:CB	2.19	0.55
2:L:1475:LEU:HD11	2:L:1483:LEU:HD11	1.88	0.55
2:L:215:TRP:N	2:L:215:TRP:CE3	2.74	0.55
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.65	0.55
1:A:450:TYR:CZ	1:A:1551:ASN:HB2	2.42	0.55
1:B:1047:TYR:CZ	1:B:1058:PRO:HB3	2.41	0.55
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.51	0.55
1:D:560:LYS:O	1:D:564:LEU:HB2	2.06	0.55
1:D:498:THR:HG21	1:D:858:LEU:O	2.06	0.55
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.41	0.55
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.06	0.55
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.42	0.55
2:H:924:VAL:HG12	2:H:925:ASP:H	1.71	0.55
2:H:938:MET:HB3	2:H:959:THR:HG22	1.88	0.55
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.06	0.55
2:I:68:GLU:HB3	2:I:69:PRO:CD	2.36	0.55
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.22	0.55
2:J:1915:LEU:HB2	2:J:1935:ALA:HB1	1.87	0.55
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.36	0.55
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.67	0.55
2:J:609:THR:O	2:J:613:VAL:HB	2.05	0.55
2:J:827:GLN:NE2	2:J:827:GLN:H	2.04	0.55
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.41	0.55
2:L:126:VAL:HG12	2:L:127:ALA:H	1.69	0.55
2:L:924:VAL:HG12	2:L:925:ASP:H	1.72	0.55
1:A:1602:PHE:N	1:A:1602:PHE:CD2	2.74	0.55
1:A:340:LEU:HD21	1:F:340:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:ARG:HG3	2:H:2045:ALA:HB2	1.86	0.55
1:B:457:THR:HG22	1:B:464:GLN:HA	1.88	0.55
1:B:573:VAL:O	1:B:577:LEU:HG	2.06	0.55
1:C:617:LEU:HD11	1:C:636:TYR:HB2	1.88	0.55
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.88	0.55
1:E:421:ARG:HH22	1:E:1613:LYS:HB3	1.72	0.55
1:F:457:THR:HG22	1:F:464:GLN:HA	1.88	0.55
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.71	0.55
2:G:1976:CYS:O	2:G:1980:THR:HG23	2.07	0.55
2:G:77:ALA:O	2:G:139:ALA:HB1	2.04	0.55
2:H:1247:PHE:HB3	2:H:1256:VAL:CG1	2.36	0.55
2:H:1262:ARG:NH2	2:H:1277:VAL:HG11	2.21	0.55
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.36	0.55
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.88	0.55
2:I:1286:LYS:HZ3	2:I:1367:ASP:HA	1.71	0.55
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.41	0.55
2:I:1517:LEU:HB2	2:I:1521:GLU:HB2	1.87	0.55
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.34	0.55
2:I:856:THR:HG23	2:I:866:HIS:CD2	2.41	0.55
2:K:1902:TYR:OH	2:K:1966:ARG:HB2	2.07	0.55
2:L:1067:LEU:HD12	2:L:1067:LEU:N	2.21	0.55
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.89	0.55
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.35	0.55
2:L:775:VAL:O	2:L:777:VAL:HG23	2.06	0.55
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.55
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.55
1:A:430:VAL:O	1:A:434:ILE:HG13	2.06	0.55
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.70	0.55
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.42	0.55
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.88	0.55
1:C:28:TRP:CZ2	1:C:53:LEU:HD22	2.41	0.55
1:B:1321:MET:HE1	1:D:1251:GLN:HG3	1.89	0.55
1:D:1089:TYR:CE1	1:D:1312:GLU:HG3	2.41	0.55
1:D:999:LEU:HD21	1:D:1575:ASN:CG	2.27	0.55
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.42	0.55
1:C:755:GLU:CG	1:D:831:GLU:HG2	2.34	0.55
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.69	0.55
1:E:1610:ARG:CG	1:E:1610:ARG:NH1	2.58	0.55
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.88	0.55
1:F:64:LYS:HE3	2:L:1923:ALA:HB1	1.88	0.55
2:G:1726:PHE:CZ	2:G:1857:VAL:HB	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.36	0.55
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.37	0.55
2:H:1061:VAL:HG12	2:H:1066:ILE:HD11	1.88	0.55
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.71	0.55
2:H:1521:GLU:OE2	2:H:2028:THR:CG2	2.55	0.55
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.68	0.55
2:I:1008:ILE:HD12	2:I:1013:VAL:HG22	1.88	0.55
2:I:1138:ASP:HB2	2:I:1140:ASN:H	1.71	0.55
2:I:1475:LEU:HA	2:I:1526:ALA:HB2	1.89	0.55
2:I:1964:ASP:O	2:I:1968:HIS:HB2	2.07	0.55
2:I:1977:ARG:HD2	2:I:1978:LYS:HG3	1.88	0.55
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.21	0.55
2:J:48:LEU:HD13	2:J:83:VAL:HG22	1.89	0.55
2:K:300:THR:HG22	2:K:302:ASP:H	1.72	0.55
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.89	0.55
2:K:779:GLY:O	2:K:780:SER:CB	2.52	0.55
2:L:911:GLN:HE21	2:L:1065:CYS:H	1.54	0.55
2:L:1938:THR:O	2:L:1942:VAL:HG23	2.06	0.55
2:L:60:THR:HG22	2:L:62:GLU:H	1.71	0.55
2:L:942:MET:CE	2:L:955:LEU:HB3	2.36	0.55
2:L:99:LEU:O	2:L:103:LYS:HG3	2.07	0.55
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.86	0.55
1:B:1307:PHE:HB3	1:B:1357:CYS:HB2	1.88	0.55
1:D:332:GLN:O	1:D:335:LEU:HB3	2.05	0.55
1:E:1381:MET:HG2	1:E:1382:THR:N	2.22	0.55
1:E:430:VAL:O	1:E:434:ILE:HG13	2.06	0.55
1:E:532:ILE:HG22	1:E:907:PHE:HB2	1.83	0.55
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.88	0.55
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.88	0.55
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.22	0.55
2:H:823:HIS:HB3	2:H:1051:GLU:HG3	1.89	0.55
2:H:1290:TYR:CD1	2:H:1299:VAL:HG12	2.41	0.55
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.87	0.55
2:H:251:PRO:CG	2:H:316:PHE:HA	2.34	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.33	0.55
2:J:1154:LEU:HD13	2:J:1198:PRO:HB3	1.88	0.55
2:J:1944:ASN:HA	2:J:1993:PHE:CD1	2.42	0.55
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.21	0.55
2:K:1130:ILE:HB	2:K:1133:LEU:HD22	1.88	0.55
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.21	0.55
2:K:126:VAL:HG12	2:K:127:ALA:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1315:ILE:H	2:K:1315:ILE:HD12	1.71	0.55
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.68	0.55
2:K:549:ASN:HD22	2:K:550:THR:N	2.03	0.55
2:K:595:SER:HB2	2:K:600:VAL:O	2.06	0.55
2:L:1171:TRP:HB3	2:L:1265:TYR:CE1	2.41	0.55
2:L:1499:LYS:HD3	2:L:1534:GLU:OE1	2.06	0.55
2:L:1517:LEU:HB2	2:L:1521:GLU:HB2	1.87	0.55
1:A:1420:TYR:OH	1:E:1473:HIS:HE1	1.89	0.55
1:A:689:ARG:HH21	1:A:1591:ASN:ND2	2.05	0.55
1:B:987:MET:O	1:B:1490:GLY:HA3	2.07	0.55
1:B:1523:HIS:HB2	1:B:1624:SER:HA	1.87	0.55
1:B:332:GLN:O	1:B:335:LEU:HB3	2.07	0.55
1:D:397:ARG:HH11	1:D:692:THR:HG21	1.70	0.55
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.87	0.55
1:E:1432:ILE:CD1	1:E:1481:GLN:HB3	2.36	0.55
1:E:883:LEU:HD23	1:E:883:LEU:N	2.21	0.55
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.07	0.55
1:F:1214:HIS:CD2	1:F:1216:SER:OG	2.58	0.55
1:F:1565:PRO:O	1:F:1567:GLY:N	2.40	0.55
1:F:408:GLN:HE22	1:F:1609:SER:H	1.53	0.55
1:F:443:LEU:H	1:F:443:LEU:HD12	1.72	0.55
1:F:612:ILE:HD12	1:F:907:PHE:HZ	1.72	0.55
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.37	0.55
2:G:621:THR:HG21	2:G:628:ILE:HD12	1.89	0.55
2:H:1442:TYR:HA	2:H:1445:THR:HG22	1.87	0.55
2:H:1962:LEU:O	2:H:1966:ARG:HB3	2.06	0.55
2:H:1944:ASN:HA	2:H:1993:PHE:CD1	2.42	0.55
2:H:916:GLY:C	2:H:929:MET:HE1	2.27	0.55
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.06	0.55
2:I:331:LEU:HD22	2:I:396:ILE:HG13	1.89	0.55
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.91	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.36	0.55
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.35	0.55
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.41	0.55
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.06	0.55
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.87	0.55
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.36	0.55
2:K:1499:LYS:CG	2:K:1500:ASN:N	2.69	0.55
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.37	0.55
2:L:246:ALA:HB3	2:L:247:PRO:HD3	1.87	0.55
1:A:1490:GLY:O	1:A:1509:THR:HB	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1573:MET:HE2	1:A:1622:VAL:HG23	1.88	0.55
1:A:88:ILE:HG21	2:G:1821:MET:HE1	1.88	0.55
1:B:1630:LYS:HD2	1:D:1273:ILE:CD1	2.33	0.55
1:B:651:GLN:HA	1:B:677:GLY:HA3	1.88	0.55
1:B:883:LEU:HD23	1:B:883:LEU:N	2.22	0.55
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.86	0.55
1:C:833:TRP:CH2	1:C:839:ILE:HD11	2.41	0.55
1:B:1389:ILE:CG1	1:D:1268:SER:HB3	2.12	0.55
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	1.88	0.55
1:D:29:ILE:HD11	2:J:1923:ALA:N	2.21	0.55
1:F:335:LEU:C	1:F:335:LEU:HD12	2.26	0.55
1:F:621:ASP:HB3	1:F:625:ASN:HB2	1.88	0.55
2:G:521:VAL:O	2:G:526:VAL:HG21	2.07	0.55
2:G:573:VAL:CG2	2:G:804:PRO:HB2	2.37	0.55
2:H:1179:GLU:HA	2:H:1190:ASN:CB	2.37	0.55
2:H:1346:MET:HB2	2:H:1427:MET:CE	2.35	0.55
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.42	0.55
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.41	0.55
2:J:1466:VAL:O	2:J:1470:LYS:HG2	2.06	0.55
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.21	0.55
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.09	0.55
2:J:719:GLY:O	2:J:755:GLU:HG3	2.06	0.55
2:K:1346:MET:HB2	2:K:1427:MET:CE	2.37	0.55
2:K:1478:GLN:HG2	2:K:1523:ILE:HG21	1.88	0.55
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.42	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG2	1.88	0.55
2:K:541:LEU:HG	2:K:552:VAL:HG11	1.88	0.55
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.37	0.55
2:K:740:ILE:H	2:K:740:ILE:HD12	1.71	0.55
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.37	0.55
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.88	0.55
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.70	0.55
1:A:1270:THR:HG21	1:E:1402:THR:CG2	2.37	0.55
1:B:1444:GLN:HA	1:B:1444:GLN:OE1	2.07	0.55
1:B:682:VAL:HG11	1:B:695:TYR:HE2	1.71	0.55
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.88	0.55
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.24	0.55
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.07	0.55
1:C:11:TYR:O	1:C:15:VAL:HG23	2.06	0.55
1:E:335:LEU:C	1:E:335:LEU:HD12	2.27	0.55
1:E:415:TYR:O	1:E:419:PHE:HD1	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.42	0.55
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.88	0.55
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.87	0.55
2:G:472:THR:HG23	2:G:499:VAL:HA	1.88	0.55
2:H:1097:PHE:CD2	2:H:1100:ARG:NH1	2.75	0.55
2:H:1594:ARG:HH11	2:H:1594:ARG:CG	1.93	0.55
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.36	0.55
2:I:493:MET:HA	2:I:497:ASP:HB2	1.88	0.55
2:I:505:THR:O	2:I:505:THR:HG22	2.06	0.55
2:J:1602:LEU:HD13	2:J:1606:ILE:CD1	2.36	0.55
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.07	0.55
2:J:1962:LEU:O	2:J:1966:ARG:HB3	2.06	0.55
2:J:1964:ASP:O	2:J:1968:HIS:HB2	2.07	0.55
2:J:440:HIS:CD2	2:J:499:VAL:CG2	2.90	0.55
2:J:747:ARG:NH1	2:J:780:SER:O	2.39	0.55
2:J:77:ALA:O	2:J:139:ALA:HB1	2.07	0.55
2:K:101:VAL:O	2:K:105:ILE:HG12	2.07	0.55
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.88	0.55
2:K:1619:LEU:O	2:K:1623:TRP:HB2	2.06	0.55
2:K:190:TYR:CE1	2:K:201:ILE:HG21	2.41	0.55
2:L:646:SER:HA	2:L:649:GLU:HG2	1.88	0.55
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.37	0.55
2:L:895:LEU:HD13	2:L:1034:LEU:HB3	1.89	0.55
2:L:917:ARG:HD3	2:L:921:GLY:O	2.07	0.55
2:L:962:PHE:O	2:L:966:VAL:HG23	2.07	0.55
1:A:1041:PRO:HA	1:A:1046:PRO:HA	1.89	0.55
1:A:1079:ARG:NH1	1:A:1079:ARG:CG	2.63	0.55
1:A:1702:ARG:HG3	1:A:1702:ARG:NH1	2.07	0.55
1:A:332:GLN:O	1:A:335:LEU:HB3	2.06	0.55
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.42	0.55
1:B:1078:ILE:HG21	1:B:1352:MET:HE2	1.89	0.55
1:C:415:TYR:O	1:C:419:PHE:HD1	1.90	0.55
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.36	0.55
1:D:701:ARG:NH1	1:D:1610:ARG:HH21	2.05	0.55
1:F:1047:TYR:CZ	1:F:1058:PRO:HB3	2.42	0.55
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.88	0.55
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.21	0.55
2:H:1866:THR:HA	2:H:1869:VAL:CG2	2.37	0.55
2:H:1902:TYR:OH	2:H:1966:ARG:HB2	2.07	0.55
2:H:1964:ASP:O	2:H:1968:HIS:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:388:ASN:HD22	2:H:388:ASN:C	2.11	0.55
2:H:621:THR:HG21	2:H:628:ILE:HD12	1.88	0.55
2:H:827:GLN:NE2	2:H:827:GLN:H	2.05	0.55
2:H:962:PHE:O	2:H:966:VAL:HG23	2.07	0.55
2:I:1223:SER:CB	2:I:1226:ALA:HB3	2.37	0.55
2:I:1227:LYS:HG2	2:I:1228:LEU:N	2.22	0.55
2:I:144:ARG:HH21	2:I:151:PRO:HA	1.71	0.55
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.89	0.55
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.87	0.55
2:I:613:VAL:HG12	2:I:614:PRO:HD3	1.89	0.55
2:J:101:VAL:O	2:J:105:ILE:HG12	2.07	0.55
2:J:1517:LEU:HB2	2:J:1521:GLU:HB2	1.88	0.55
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.88	0.55
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.42	0.55
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.89	0.55
2:J:290:VAL:HA	2:J:490:LEU:CD1	2.36	0.55
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.42	0.55
2:K:447:ALA:O	2:K:451:ILE:HG13	2.07	0.55
2:L:1061:VAL:HG12	2:L:1066:ILE:HD11	1.88	0.55
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.55
1:A:1303:LEU:HD23	1:A:1361:VAL:HB	1.89	0.55
1:A:504:GLY:O	1:A:926:SER:HB2	2.07	0.55
1:B:1432:ILE:CD1	1:B:1481:GLN:HB3	2.37	0.55
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.21	0.55
1:B:565:GLN:HG2	1:B:565:GLN:O	2.06	0.55
1:B:621:ASP:CB	1:B:625:ASN:HB2	2.36	0.55
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.42	0.55
1:D:1432:ILE:CD1	1:D:1481:GLN:HB3	2.37	0.55
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.36	0.55
1:D:573:VAL:O	1:D:577:LEU:HG	2.07	0.55
1:D:683:THR:HB	1:D:714:PHE:CB	2.36	0.55
1:E:1041:PRO:HA	1:E:1046:PRO:HA	1.89	0.55
2:G:1138:ASP:HB2	2:G:1140:ASN:H	1.72	0.55
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.88	0.55
2:G:609:THR:O	2:G:613:VAL:HB	2.06	0.55
2:G:740:ILE:H	2:G:740:ILE:HD12	1.71	0.55
2:I:1290:TYR:CD1	2:I:1299:VAL:HG12	2.41	0.55
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.25	0.55
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.89	0.55
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.42	0.55
2:J:1179:GLU:HA	2:J:1190:ASN:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:126:VAL:HG12	2:J:127:ALA:H	1.72	0.55
1:D:35:ILE:HD13	2:J:1691:ALA:HB1	1.89	0.55
2:J:331:LEU:HD22	2:J:396:ILE:HG13	1.88	0.55
2:J:930:THR:HG22	2:J:933:GLU:CG	2.36	0.55
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.37	0.55
2:L:1602:LEU:HD13	2:L:1606:ILE:CD1	2.37	0.55
2:L:1706:MET:O	2:L:1709:TYR:HB3	2.07	0.55
2:L:472:THR:H	2:L:493:MET:HE3	1.72	0.55
2:L:609:THR:O	2:L:613:VAL:HB	2.07	0.55
2:L:740:ILE:HD12	2:L:740:ILE:H	1.72	0.55
1:A:1098:GLN:HB2	1:A:1152:LYS:HE2	1.89	0.54
1:D:1052:ASP:HB3	1:D:1055:THR:O	2.07	0.54
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.21	0.54
1:D:47:ILE:HB	2:J:1694:PHE:HD1	1.71	0.54
1:E:1078:ILE:HG21	1:E:1352:MET:HE2	1.90	0.54
1:F:1536:ASP:N	1:F:1602:PHE:HE1	2.04	0.54
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.06	0.54
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.37	0.54
2:H:606:ALA:HB2	2:H:811:MET:CG	2.37	0.54
2:H:917:ARG:HD3	2:H:921:GLY:O	2.07	0.54
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.89	0.54
2:I:1939:LEU:O	2:I:1943:LEU:HG	2.07	0.54
2:I:196:PHE:CD2	2:I:266:LYS:HB3	2.41	0.54
2:J:1694:PHE:HD2	2:J:1843:ALA:HB2	1.71	0.54
2:J:645:ILE:HD13	2:J:687:ILE:HD11	1.89	0.54
2:J:924:VAL:HG12	2:J:925:ASP:H	1.72	0.54
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.72	0.54
2:K:1142:ILE:HD11	2:K:1209:PRO:HB3	1.89	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.89	0.54
2:L:144:ARG:HH21	2:L:151:PRO:HA	1.71	0.54
1:A:432:GLN:O	1:A:436:ILE:HG13	2.06	0.54
1:B:855:ALA:HA	1:B:919:ARG:NH2	2.21	0.54
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.29	0.54
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.06	0.54
1:D:1470:ARG:O	1:D:1474:ILE:HG13	2.07	0.54
1:E:1106:LEU:HD23	1:E:1107:GLU:N	2.22	0.54
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.89	0.54
1:F:526:MET:O	1:F:613:PRO:O	2.25	0.54
2:G:1334:ALA:O	2:G:1342:PHE:HA	2.07	0.54
2:G:794:GLY:O	2:G:804:PRO:HA	2.08	0.54
2:H:1142:ILE:HD11	2:H:1209:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1335:PHE:HE1	2:H:1629:ILE:HD13	1.71	0.54
2:H:1621:GLU:OE2	2:H:1629:ILE:HG23	2.08	0.54
2:H:895:LEU:HD13	2:H:1034:LEU:HB3	1.89	0.54
2:I:1097:PHE:CD2	2:I:1100:ARG:NH1	2.75	0.54
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.43	0.54
2:I:635:TYR:CB	2:I:641:MET:HG3	2.37	0.54
2:I:765:TYR:CB	2:I:805:MET:HE3	2.35	0.54
2:J:1061:VAL:HG12	2:J:1066:ILE:HD11	1.88	0.54
2:J:1866:THR:HA	2:J:1869:VAL:CG2	2.37	0.54
2:J:606:ALA:HB2	2:J:811:MET:CG	2.37	0.54
2:K:1602:LEU:HD13	2:K:1606:ILE:CD1	2.37	0.54
2:K:1804:GLN:HG2	2:K:1865:LEU:CD2	2.38	0.54
2:K:1881:TYR:CB	2:K:2004:PRO:HG3	2.37	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.41	0.54
2:K:723:ALA:O	2:K:726:GLN:HB2	2.07	0.54
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.88	0.54
2:K:868:LEU:HD13	2:K:1068:GLN:HG3	1.88	0.54
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.20	0.54
2:L:1115:TYR:CZ	2:L:1174:ALA:HB2	2.42	0.54
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.23	0.54
2:L:289:ILE:HG22	2:L:490:LEU:HD22	1.89	0.54
1:A:1574:LEU:CD1	1:A:1622:VAL:HG11	2.37	0.54
1:B:1638:HIS:ND1	1:B:1639:PRO:HD2	2.22	0.54
1:B:47:ILE:HB	2:H:1694:PHE:CD1	2.42	0.54
1:C:1536:ASP:N	1:C:1602:PHE:HE1	2.06	0.54
1:C:1647:ASP:HB2	1:C:1649:ALA:HB3	1.88	0.54
1:B:1143:ARG:HH21	1:C:356:LYS:NZ	2.06	0.54
1:C:628:TYR:CE1	1:C:630:LYS:HG2	2.43	0.54
1:C:651:GLN:HA	1:C:677:GLY:HA3	1.88	0.54
1:C:955:VAL:HG23	2:I:981:GLN:OE1	2.07	0.54
1:D:1230:SER:HA	1:D:1311:GLN:NE2	2.22	0.54
1:D:427:ARG:NH1	1:D:492:ILE:CG1	2.71	0.54
1:D:715:ASN:HD22	1:D:717:GLY:H	1.55	0.54
1:E:21:GLN:HE22	2:K:1841:TYR:HE1	1.55	0.54
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.20	0.54
1:E:439:ARG:O	1:E:444:LEU:HD12	2.07	0.54
1:E:621:ASP:CB	1:E:625:ASN:HB2	2.36	0.54
1:E:435:GLN:HG2	1:E:701:ARG:O	2.08	0.54
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.07	0.54
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.21	0.54
1:F:1565:PRO:O	1:F:1566:LYS:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:ARG:NH1	1:F:692:THR:HG21	2.22	0.54
1:F:628:TYR:HE1	1:F:630:LYS:HA	1.72	0.54
2:G:2052:LYS:HB3	2:G:2074:TRP:CZ2	2.42	0.54
2:G:876:TRP:CH2	2:G:1043:LYS:HB2	2.42	0.54
2:H:99:LEU:O	2:H:103:LYS:HG3	2.07	0.54
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.90	0.54
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.54
2:H:2052:LYS:HB3	2:H:2074:TRP:CD2	2.42	0.54
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.38	0.54
2:H:832:ILE:HA	2:H:868:LEU:HD21	1.89	0.54
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.89	0.54
2:I:49:LYS:HA	2:I:79:TYR:HE1	1.72	0.54
2:I:636:TYR:N	2:I:636:TYR:CD1	2.76	0.54
2:I:723:ALA:O	2:I:726:GLN:HB2	2.07	0.54
2:J:1142:ILE:HD11	2:J:1209:PRO:HB3	1.88	0.54
2:J:1499:LYS:CG	2:J:1500:ASN:N	2.70	0.54
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.24	0.54
2:K:144:ARG:HH21	2:K:151:PRO:HA	1.71	0.54
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.07	0.54
2:K:24:LEU:HD11	2:K:45:ALA:CB	2.37	0.54
2:L:1259:LEU:HB2	2:L:1288:PHE:CE1	2.42	0.54
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.88	0.54
2:L:600:VAL:HG22	2:L:601:PRO:HD2	1.89	0.54
2:L:31:LEU:HD13	2:L:75:LEU:HD21	1.89	0.54
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.88	0.54
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.90	0.54
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.90	0.54
1:C:1160:VAL:HG23	1:C:1327:ALA:HB2	1.88	0.54
1:C:1443:LEU:HD13	1:C:1470:ARG:HB3	1.90	0.54
1:C:537:ASN:HB3	1:C:585:MET:SD	2.48	0.54
1:D:965:TYR:CZ	1:D:1199:LEU:HD22	2.42	0.54
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.89	0.54
1:F:18:LEU:HD21	2:L:1844:LEU:CD1	2.37	0.54
1:F:617:LEU:HD11	1:F:636:TYR:HB2	1.89	0.54
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.42	0.54
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	1.89	0.54
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.43	0.54
2:G:719:GLY:O	2:G:755:GLU:HG3	2.07	0.54
2:H:1130:ILE:HB	2:H:1133:LEU:HD22	1.89	0.54
2:H:1299:VAL:CG2	2:H:1301:PHE:CE2	2.87	0.54
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1440:THR:HG22	2:H:1440:THR:O	2.07	0.54
2:H:144:ARG:HH21	2:H:151:PRO:HA	1.72	0.54
2:H:1478:GLN:HG2	2:H:1523:ILE:HG21	1.90	0.54
2:H:448:HIS:HD2	2:H:491:VAL:CG1	2.21	0.54
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.92	0.54
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.90	0.54
2:I:1519:THR:OG1	2:I:1521:GLU:HG2	2.07	0.54
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.37	0.54
2:I:636:TYR:N	2:I:636:TYR:HD1	2.05	0.54
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.42	0.54
2:I:77:ALA:O	2:I:139:ALA:HB1	2.07	0.54
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.54
2:K:1247:PHE:HB3	2:K:1256:VAL:CG1	2.37	0.54
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.89	0.54
2:K:1888:PRO:HB3	2:K:1895:PHE:CD1	2.41	0.54
2:L:1290:TYR:CD1	2:L:1299:VAL:HG12	2.42	0.54
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.38	0.54
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	1.89	0.54
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.08	0.54
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.90	0.54
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.07	0.54
2:L:608:MET:H	2:L:612:THR:CB	2.20	0.54
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.89	0.54
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.36	0.54
1:A:1443:LEU:HD13	1:A:1470:ARG:HB3	1.89	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.54
1:B:1001:GLU:O	1:B:1002:ILE:HD12	2.08	0.54
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.22	0.54
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.88	0.54
1:D:1603:ASP:HB2	1:D:1604:TYR:CD2	2.43	0.54
1:E:1443:LEU:HD11	1:E:1470:ARG:HB3	1.87	0.54
1:F:1493:PHE:CE2	1:F:1509:THR:HG22	2.43	0.54
1:F:682:VAL:HG11	1:F:695:TYR:HE2	1.72	0.54
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.42	0.54
2:G:1804:GLN:HG2	2:G:1865:LEU:HD23	1.90	0.54
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.06	0.54
2:G:832:ILE:HA	2:G:868:LEU:HD21	1.88	0.54
2:H:24:LEU:HD11	2:H:45:ALA:CB	2.37	0.54
2:H:578:PRO:HG3	2:H:792:LEU:O	2.07	0.54
2:I:1200:ARG:N	2:I:1200:ARG:HD3	2.22	0.54
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1888:PRO:HB3	2:I:1895:PHE:CD1	2.41	0.54
2:I:24:LEU:HD11	2:I:45:ALA:CB	2.37	0.54
2:I:612:THR:O	2:I:612:THR:HG22	2.08	0.54
2:J:1902:TYR:OH	2:J:1966:ARG:HB2	2.08	0.54
2:J:2033:SER:HA	2:J:2036:ILE:HD12	1.88	0.54
2:J:521:VAL:O	2:J:526:VAL:HG21	2.08	0.54
2:J:635:TYR:CB	2:J:641:MET:HG3	2.37	0.54
2:K:1346:MET:HE3	2:K:1617:ARG:NH2	2.23	0.54
2:K:1440:THR:HG22	2:K:1440:THR:O	2.07	0.54
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.07	0.54
2:K:1866:THR:HA	2:K:1869:VAL:CG2	2.38	0.54
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.71	0.54
2:K:612:THR:HG21	2:K:629:GLU:O	2.08	0.54
2:K:747:ARG:HD3	2:K:1071:VAL:HG11	1.87	0.54
2:K:578:PRO:HG3	2:K:792:LEU:O	2.08	0.54
2:L:49:LYS:HA	2:L:79:TYR:HE1	1.73	0.54
1:A:1097:LEU:CD1	1:E:1149:LEU:HD12	2.38	0.54
1:A:701:ARG:NH1	1:A:1610:ARG:NH2	2.56	0.54
1:B:1565:PRO:HG3	1:B:1572:TRP:CH2	2.43	0.54
1:B:1574:LEU:CD1	1:B:1622:VAL:HG11	2.38	0.54
1:B:408:GLN:HE22	1:B:1609:SER:H	1.54	0.54
1:C:1534:GLU:HG2	1:C:1625:PHE:HE1	1.72	0.54
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.51	0.54
1:C:414:TYR:O	1:C:418:ILE:HG13	2.08	0.54
1:D:689:ARG:HH21	1:D:1591:ASN:ND2	2.06	0.54
1:D:623:PHE:CD2	1:D:623:PHE:N	2.74	0.54
1:D:621:ASP:CB	1:D:625:ASN:HB2	2.38	0.54
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	1.89	0.54
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.08	0.54
1:E:1574:LEU:CD1	1:E:1622:VAL:HG11	2.37	0.54
1:F:1602:PHE:N	1:F:1602:PHE:HD2	2.05	0.54
1:F:950:ALA:HA	1:F:953:ARG:CZ	2.37	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.89	0.54
2:G:1619:LEU:O	2:G:1623:TRP:HB2	2.07	0.54
2:G:1977:ARG:HD2	2:G:1978:LYS:HG3	1.89	0.54
2:G:378:ILE:HG23	2:G:391:VAL:HG13	1.90	0.54
2:H:117:ASN:HA	2:H:561:ARG:HD2	1.88	0.54
2:H:1334:ALA:O	2:H:1342:PHE:HA	2.07	0.54
2:I:1499:LYS:CG	2:I:1500:ASN:N	2.70	0.54
2:I:1622:THR:HG23	2:I:1627:ASN:OD1	2.06	0.54
2:I:1804:GLN:HG2	2:I:1865:LEU:CD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.89	0.54
2:I:832:ILE:HA	2:I:868:LEU:HD21	1.90	0.54
2:J:24:LEU:HD11	2:J:45:ALA:HB1	1.90	0.54
2:J:31:LEU:HD13	2:J:75:LEU:HD21	1.90	0.54
2:J:775:VAL:O	2:J:777:VAL:HG23	2.07	0.54
2:K:1259:LEU:HB2	2:K:1288:PHE:CE1	2.43	0.54
2:K:1964:ASP:O	2:K:1968:HIS:HB2	2.07	0.54
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.90	0.54
2:L:1120:ILE:HD13	2:L:1167:ASN:O	2.08	0.54
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.42	0.54
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.41	0.54
1:A:623:PHE:CD2	1:A:623:PHE:N	2.76	0.54
1:B:1052:ASP:HB3	1:B:1055:THR:O	2.07	0.54
1:B:1699:PRO:HG2	1:D:1406:GLU:HA	1.90	0.54
1:C:621:ASP:CB	1:C:625:ASN:HB2	2.38	0.54
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.89	0.54
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.36	0.54
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.37	0.54
2:G:144:ARG:HH21	2:G:151:PRO:HA	1.73	0.54
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.90	0.54
2:G:1871:VAL:HG21	2:G:2004:PRO:HD3	1.90	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD1	2.43	0.54
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.38	0.54
2:G:289:ILE:HG22	2:G:490:LEU:HD22	1.90	0.54
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.07	0.54
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.89	0.54
2:G:942:MET:CE	2:G:955:LEU:HB3	2.37	0.54
2:H:1960:MET:HB3	2:H:1964:ASP:CB	2.36	0.54
2:I:934:VAL:O	2:I:938:MET:HG3	2.08	0.54
2:J:1138:ASP:HB2	2:J:1140:ASN:H	1.73	0.54
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.88	0.54
2:J:617:PHE:HD1	2:J:822:ALA:HA	1.73	0.54
2:K:1123:ALA:HB3	2:K:1126:GLU:HG3	1.88	0.54
2:K:1239:ASP:OD1	2:K:1240:ASN:N	2.37	0.54
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.07	0.54
2:K:289:ILE:HG22	2:K:490:LEU:HD22	1.88	0.54
2:K:636:TYR:HD1	2:K:636:TYR:N	2.05	0.54
2:K:832:ILE:HA	2:K:868:LEU:HD21	1.90	0.54
2:K:868:LEU:O	2:K:870:THR:N	2.40	0.54
2:L:300:THR:HG22	2:L:302:ASP:H	1.73	0.54
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:PRO:HG2	1:A:633:THR:HG21	1.90	0.54
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.38	0.54
1:B:1230:SER:HA	1:B:1311:GLN:NE2	2.22	0.54
1:B:1209:PHE:CZ	1:B:1301:VAL:HG21	2.43	0.54
1:B:570:TYR:O	1:B:574:ILE:HG12	2.08	0.54
1:B:397:ARG:NH1	1:B:692:THR:HG21	2.23	0.54
1:C:1630:LYS:HD2	1:F:1273:ILE:CD1	2.37	0.54
1:C:554:ARG:O	1:C:555:GLN:HG3	2.08	0.54
1:D:1536:ASP:N	1:D:1602:PHE:HE1	2.06	0.54
1:D:1565:PRO:O	1:D:1566:LYS:C	2.46	0.54
1:D:439:ARG:O	1:D:444:LEU:HD12	2.07	0.54
1:E:47:ILE:HB	2:K:1694:PHE:HD1	1.72	0.54
1:F:1401:LEU:O	1:F:1401:LEU:HD22	2.07	0.54
1:A:551:LEU:HD21	1:F:562:SER:CB	2.38	0.54
2:G:1130:ILE:HB	2:G:1133:LEU:HD22	1.89	0.54
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	1.90	0.54
2:G:189:ILE:HD13	2:G:259:ALA:HB3	1.90	0.54
2:G:388:ASN:HD22	2:G:388:ASN:C	2.11	0.54
2:G:447:ALA:O	2:G:451:ILE:HG13	2.08	0.54
2:G:582:LYS:HA	2:G:587:GLN:O	2.08	0.54
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.89	0.54
2:H:1468:ARG:CG	2:H:1468:ARG:NH1	2.53	0.54
2:H:699:ILE:HD12	2:H:699:ILE:N	2.23	0.54
2:I:1299:VAL:CG2	2:I:1301:PHE:CE2	2.89	0.54
2:I:48:LEU:HD13	2:I:83:VAL:HG22	1.90	0.54
2:J:1760:ASN:O	2:J:1764:MET:HG2	2.08	0.54
2:J:1966:ARG:O	2:J:1970:VAL:HG23	2.07	0.54
2:J:300:THR:HG22	2:J:302:ASP:H	1.72	0.54
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.90	0.54
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.38	0.54
2:J:743:TRP:CE2	2:J:761:ILE:HD11	2.42	0.54
2:K:1262:ARG:NH2	2:K:1277:VAL:HG11	2.22	0.54
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.21	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.25	0.54
1:A:628:TYR:CE1	1:A:630:LYS:HG2	2.43	0.54
1:B:13:LEU:HG	2:H:2048:PHE:CE1	2.43	0.54
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.08	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
1:C:628:TYR:HE1	1:C:630:LYS:HA	1.72	0.54
1:D:457:THR:HG22	1:D:464:GLN:HA	1.90	0.54
1:D:532:ILE:HD11	1:D:866:LEU:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:726:VAL:HG21	1:D:780:ALA:HB3	1.90	0.54
1:D:843:VAL:O	1:D:843:VAL:HG22	2.08	0.54
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.31	0.54
1:E:767:HIS:NE2	1:E:771:LEU:HD23	2.22	0.54
2:G:1179:GLU:HA	2:G:1190:ASN:CB	2.37	0.54
2:H:635:TYR:CB	2:H:641:MET:HG3	2.38	0.54
2:I:1315:ILE:HD12	2:I:1315:ILE:H	1.73	0.54
2:I:378:ILE:HG23	2:I:391:VAL:HG13	1.90	0.54
2:I:99:LEU:O	2:I:103:LYS:HG3	2.08	0.54
2:J:1305:LEU:HD12	2:J:1305:LEU:H	1.73	0.54
2:J:68:GLU:HB3	2:J:69:PRO:CD	2.36	0.54
2:K:416:GLN:HA	2:K:419:ILE:HG13	1.90	0.54
2:K:290:VAL:HA	2:K:490:LEU:CD1	2.37	0.54
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.07	0.54
2:K:607:GLY:HA2	2:K:612:THR:HG21	1.90	0.54
2:L:101:VAL:O	2:L:105:ILE:HG12	2.08	0.54
2:L:823:HIS:HB3	2:L:1051:GLU:HG3	1.90	0.54
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.89	0.54
2:L:2052:LYS:HB3	2:L:2074:TRP:CD2	2.41	0.54
2:L:578:PRO:HG3	2:L:792:LEU:O	2.07	0.54
2:L:617:PHE:HD1	2:L:822:ALA:HA	1.73	0.54
2:L:934:VAL:O	2:L:938:MET:HG3	2.07	0.54
1:A:726:VAL:HG21	1:A:780:ALA:HB3	1.89	0.54
1:A:918:LEU:O	1:A:921:GLU:HG3	2.08	0.54
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.42	0.54
1:B:1647:ASP:HB2	1:B:1649:ALA:HB3	1.89	0.54
1:B:1686:PRO:HB2	1:B:1713:PHE:HD2	1.73	0.54
1:B:540:LYS:HE2	1:B:610:GLU:HG3	1.89	0.54
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.90	0.54
1:C:439:ARG:O	1:C:444:LEU:HD12	2.07	0.54
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.54
1:D:1106:LEU:HD23	1:D:1107:GLU:N	2.23	0.54
1:D:335:LEU:HD12	1:D:335:LEU:C	2.28	0.54
1:E:1032:MET:HE2	1:E:1165:PRO:HB3	1.89	0.54
1:E:1443:LEU:HD13	1:E:1470:ARG:HB3	1.90	0.54
1:E:457:THR:HG22	1:E:464:GLN:HA	1.88	0.54
2:G:1171:TRP:HB3	2:G:1265:TYR:CE1	2.41	0.54
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.38	0.54
2:G:487:ILE:CB	2:G:488:PRO:HD3	2.36	0.54
2:G:617:PHE:HD1	2:G:822:ALA:HA	1.73	0.54
2:H:1130:ILE:HG21	2:H:1155:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:119:VAL:HA	2:I:122:ILE:HG22	1.90	0.54
2:I:1871:VAL:CG1	2:I:1872:GLU:N	2.70	0.54
2:I:747:ARG:NH1	2:I:780:SER:O	2.41	0.54
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.90	0.54
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.54
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.90	0.54
2:J:467:ILE:CG2	2:J:468:PRO:HD2	2.37	0.54
2:J:49:LYS:HA	2:J:79:TYR:HE1	1.72	0.54
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.06	0.54
2:L:926:LEU:O	2:L:1008:ILE:HD11	2.08	0.54
2:L:1334:ALA:O	2:L:1342:PHE:HA	2.07	0.54
2:L:1694:PHE:HD2	2:L:1843:ALA:HB2	1.72	0.54
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.43	0.54
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.90	0.54
2:L:607:GLY:HA2	2:L:612:THR:HG21	1.90	0.54
1:B:950:ALA:HA	1:B:953:ARG:CZ	2.38	0.53
1:C:397:ARG:HH11	1:C:692:THR:HG21	1.73	0.53
1:D:628:TYR:CE1	1:D:630:LYS:HG2	2.43	0.53
1:D:653:LYS:HD3	1:D:742:TYR:HE2	1.71	0.53
1:A:1390:GLY:O	1:E:1264:MET:HB3	2.08	0.53
1:E:613:PRO:O	1:E:614:PHE:HB2	2.07	0.53
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.08	0.53
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.90	0.53
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.73	0.53
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.44	0.53
2:G:24:LEU:HD11	2:G:45:ALA:CB	2.38	0.53
2:G:917:ARG:HD3	2:G:921:GLY:O	2.08	0.53
2:H:1888:PRO:HB3	2:H:1895:PHE:CD1	2.42	0.53
2:H:215:TRP:N	2:H:215:TRP:CE3	2.76	0.53
2:J:1977:ARG:HD2	2:J:1978:LYS:HG3	1.89	0.53
2:K:1115:TYR:OH	2:K:1173:HIS:HD2	1.90	0.53
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.90	0.53
2:K:600:VAL:HG13	2:K:601:PRO:N	2.24	0.53
2:K:636:TYR:N	2:K:636:TYR:CD1	2.75	0.53
2:K:781:GLY:HA2	2:K:1071:VAL:CG1	2.35	0.53
2:K:917:ARG:HD3	2:K:921:GLY:O	2.08	0.53
2:K:924:VAL:HG12	2:K:925:ASP:H	1.73	0.53
2:K:916:GLY:C	2:K:929:MET:HE1	2.28	0.53
1:A:415:TYR:CE2	1:A:1614:THR:HB	2.43	0.53
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.17	0.53
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:918:LEU:O	1:C:921:GLU:HG3	2.08	0.53
1:D:950:ALA:HA	1:D:953:ARG:CZ	2.38	0.53
1:E:1647:ASP:HB2	1:E:1649:ALA:HB3	1.90	0.53
1:E:27:ARG:HG3	2:K:2045:ALA:HB2	1.90	0.53
1:E:623:PHE:N	1:E:623:PHE:CD2	2.75	0.53
2:G:350:MET:HG3	2:G:435:ILE:HB	1.90	0.53
2:H:1335:PHE:CE1	2:H:1629:ILE:CD1	2.91	0.53
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.23	0.53
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.10	0.53
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.74	0.53
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.76	0.53
2:I:895:LEU:HD13	2:I:1034:LEU:HB3	1.90	0.53
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.89	0.53
2:J:1519:THR:OG1	2:J:1521:GLU:HG2	2.08	0.53
2:J:24:LEU:HD11	2:J:45:ALA:CB	2.38	0.53
2:K:106:LEU:HD11	2:K:143:GLY:O	2.07	0.53
2:K:1130:ILE:HG21	2:K:1155:PRO:HB3	1.90	0.53
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.10	0.53
2:K:60:THR:HG22	2:K:62:GLU:H	1.74	0.53
2:K:957:LYS:HE2	2:K:1022:ARG:HH22	1.73	0.53
2:L:1286:LYS:HZ1	2:L:1367:ASP:HA	1.72	0.53
2:L:779:GLY:HA3	2:L:811:MET:CE	2.38	0.53
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.41	0.53
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	1.91	0.53
1:D:1565:PRO:O	1:D:1567:GLY:N	2.40	0.53
1:E:1565:PRO:O	1:E:1566:LYS:C	2.47	0.53
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.23	0.53
2:G:1602:LEU:HD13	2:G:1606:ILE:CD1	2.39	0.53
2:H:1289:TYR:HB2	2:H:1370:LEU:HD23	1.89	0.53
2:H:1619:LEU:O	2:H:1623:TRP:HB2	2.08	0.53
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.44	0.53
2:H:31:LEU:HD13	2:H:75:LEU:HD21	1.89	0.53
2:I:1247:PHE:HB3	2:I:1256:VAL:CG1	2.39	0.53
2:I:818:THR:HA	2:I:829:LYS:HG2	1.90	0.53
2:I:845:ASN:HD21	2:I:849:ARG:HH11	1.56	0.53
2:J:1346:MET:HB2	2:J:1427:MET:HE3	1.90	0.53
2:J:268:LEU:HD12	2:J:275:LEU:CD1	2.38	0.53
2:J:685:VAL:HG23	2:J:1186:ARG:HH12	1.71	0.53
2:K:1335:PHE:HE1	2:K:1629:ILE:CD1	2.21	0.53
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.89	0.53
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1670:HIS:ND1	2:L:1009:ASN:ND2	2.57	0.53
2:L:1964:ASP:O	2:L:1968:HIS:HB2	2.08	0.53
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.23	0.53
2:L:2033:SER:HA	2:L:2036:ILE:HD12	1.89	0.53
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.89	0.53
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.09	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CG	2.21	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:B:397:ARG:HH11	1:B:692:THR:HG21	1.74	0.53
1:B:41:THR:HG22	2:H:1689:VAL:HG12	1.90	0.53
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.73	0.53
1:C:443:LEU:H	1:C:443:LEU:HD12	1.73	0.53
1:C:570:TYR:O	1:C:574:ILE:HG12	2.09	0.53
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.08	0.53
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.07	0.53
1:E:549:TYR:O	1:E:553:ARG:HB3	2.09	0.53
1:E:397:ARG:NH1	1:E:692:THR:HG21	2.22	0.53
1:F:1020:PHE:CE2	1:F:1028:MET:HG3	2.43	0.53
1:F:29:ILE:HD11	2:L:1922:VAL:C	2.29	0.53
2:G:1537:GLY:O	2:G:1539:PRO:HD3	2.09	0.53
2:G:1964:ASP:O	2:G:1968:HIS:HB2	2.08	0.53
2:G:699:ILE:N	2:G:699:ILE:HD12	2.24	0.53
2:H:215:TRP:CE3	2:H:216:ASP:N	2.66	0.53
2:H:240:THR:O	2:H:244:VAL:HG23	2.08	0.53
2:H:573:VAL:CG2	2:H:804:PRO:HB2	2.38	0.53
2:H:845:ASN:HD21	2:H:849:ARG:HH11	1.55	0.53
2:H:931:TYR:O	2:H:935:VAL:HG12	2.07	0.53
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.43	0.53
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.07	0.53
2:K:645:ILE:HD13	2:K:687:ILE:HD11	1.90	0.53
2:K:930:THR:HG22	2:K:933:GLU:CG	2.38	0.53
2:L:1726:PHE:CZ	2:L:1857:VAL:HB	2.44	0.53
2:L:1764:MET:CE	2:L:1865:LEU:HD12	2.39	0.53
2:J:1338:ARG:NH2	2:L:327:PRO:O	2.36	0.53
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.38	0.53
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.41	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CB	2.21	0.53
1:A:950:ALA:HA	1:A:953:ARG:CZ	2.37	0.53
1:B:621:ASP:HB3	1:B:625:ASN:H	1.72	0.53
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.72	0.53
1:C:332:GLN:O	1:C:335:LEU:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:768:ARG:HA	1:D:772:THR:OG1	2.09	0.53
1:E:332:GLN:O	1:E:335:LEU:HB3	2.09	0.53
1:E:432:GLN:O	1:E:436:ILE:HG13	2.08	0.53
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.44	0.53
1:E:907:PHE:O	1:E:909:PRO:HD3	2.08	0.53
2:G:1466:VAL:O	2:G:1470:LYS:HG2	2.08	0.53
2:G:1706:MET:O	2:G:1709:TYR:HB3	2.08	0.53
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.91	0.53
2:G:924:VAL:HG12	2:G:925:ASP:H	1.73	0.53
2:H:2052:LYS:HB3	2:H:2074:TRP:CZ2	2.43	0.53
2:I:246:ALA:HB3	2:I:247:PRO:HD3	1.89	0.53
2:I:268:LEU:HD12	2:I:275:LEU:CD1	2.39	0.53
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.91	0.53
2:I:578:PRO:HG3	2:I:792:LEU:O	2.08	0.53
2:J:119:VAL:HA	2:J:122:ILE:HG22	1.90	0.53
2:J:1802:ALA:HB1	2:J:1804:GLN:NE2	2.17	0.53
2:J:487:ILE:CB	2:J:488:PRO:HD3	2.37	0.53
2:J:612:THR:O	2:J:612:THR:HG22	2.09	0.53
2:K:1285:ILE:O	2:K:1288:PHE:HB3	2.08	0.53
2:K:1944:ASN:HA	2:K:1993:PHE:CD1	2.44	0.53
2:K:378:ILE:HG23	2:K:391:VAL:HG13	1.90	0.53
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.74	0.53
2:L:1440:THR:O	2:L:1440:THR:HG22	2.08	0.53
2:L:1519:THR:OG1	2:L:1521:GLU:HG2	2.08	0.53
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.90	0.53
2:L:24:LEU:HD11	2:L:45:ALA:CB	2.38	0.53
1:A:1011:ARG:C	1:A:1011:ARG:HD2	2.28	0.53
1:A:29:ILE:HD11	2:G:1923:ALA:N	2.23	0.53
1:A:628:TYR:HE1	1:A:630:LYS:HA	1.74	0.53
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.91	0.53
1:B:1602:PHE:HD2	1:B:1602:PHE:N	2.06	0.53
1:C:1052:ASP:HB3	1:C:1055:THR:O	2.08	0.53
1:D:1214:HIS:CD2	1:D:1216:SER:OG	2.56	0.53
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.38	0.53
1:D:1401:LEU:HD22	1:D:1401:LEU:O	2.08	0.53
1:E:1587:PRO:HA	1:E:1611:SER:OG	2.09	0.53
2:G:1962:LEU:O	2:G:1966:ARG:HB3	2.08	0.53
2:G:196:PHE:O	2:G:262:MET:HE1	2.09	0.53
2:G:636:TYR:N	2:G:636:TYR:HD1	2.07	0.53
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.08	0.53
2:I:1194:ARG:HD2	2:I:1598:SER:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1760:ASN:O	2:I:1764:MET:HG2	2.08	0.53
2:I:228:LEU:O	2:I:232:HIS:HD2	1.91	0.53
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.89	0.53
2:J:1130:ILE:HG21	2:J:1155:PRO:HB3	1.88	0.53
2:J:120:HIS:CD2	2:J:137:VAL:HG11	2.43	0.53
1:D:29:ILE:HD11	2:J:1922:VAL:CA	2.38	0.53
2:J:636:TYR:HD1	2:J:636:TYR:N	2.07	0.53
2:J:855:ILE:HD13	2:J:856:THR:N	2.23	0.53
2:K:1206:ILE:O	2:K:1209:PRO:HG3	2.09	0.53
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.43	0.53
2:K:179:ILE:O	2:K:179:ILE:HG23	2.08	0.53
2:K:1067:LEU:HB2	3:K:2101:FMN:HM71	1.89	0.53
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.89	0.53
2:K:603:VAL:HG22	2:K:810:CYS:SG	2.49	0.53
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.09	0.53
2:L:931:TYR:O	2:L:935:VAL:HG12	2.09	0.53
1:A:1443:LEU:HD11	1:A:1470:ARG:HB3	1.90	0.53
1:A:532:ILE:O	1:F:575:ARG:NH2	2.41	0.53
1:C:992:LYS:HE2	1:F:1495:ARG:NH1	2.24	0.53
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.90	0.53
1:D:1444:GLN:OE1	1:D:1444:GLN:HA	2.09	0.53
1:D:1443:LEU:HD13	1:D:1470:ARG:HB3	1.90	0.53
1:E:1164:ILE:HD13	1:E:1355:GLN:HG3	1.91	0.53
1:A:1268:SER:CB	1:E:1389:ILE:HG13	2.14	0.53
1:E:36:LEU:CD2	1:E:44:ILE:HD11	2.38	0.53
1:E:573:VAL:O	1:E:577:LEU:HG	2.08	0.53
1:E:827:ARG:NH1	1:E:831:GLU:OE2	2.41	0.53
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.08	0.53
2:G:1405:ILE:HG22	2:G:1445:THR:OG1	2.09	0.53
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.38	0.53
2:G:723:ALA:O	2:G:726:GLN:HB2	2.08	0.53
2:G:911:GLN:NE2	2:G:1065:CYS:H	2.06	0.53
2:G:962:PHE:O	2:G:966:VAL:HG23	2.09	0.53
2:H:1802:ALA:HB1	2:H:1804:GLN:NE2	2.18	0.53
2:I:388:ASN:C	2:I:388:ASN:HD22	2.11	0.53
2:J:1726:PHE:CZ	2:J:1857:VAL:HB	2.44	0.53
2:K:1346:MET:HB2	2:K:1427:MET:HE3	1.91	0.53
2:K:1603:PRO:HB2	2:K:1644:LEU:HD21	1.90	0.53
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.38	0.53
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.91	0.53
2:L:487:ILE:CB	2:L:488:PRO:HD3	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.90	0.53
1:A:1099:GLU:HA	1:A:1149:LEU:HD23	1.90	0.53
1:B:1425:LEU:CD2	1:B:1429:ARG:HH21	2.16	0.53
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.90	0.53
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.43	0.53
1:E:421:ARG:HH22	1:E:1613:LYS:HG3	1.72	0.53
1:E:621:ASP:HB3	1:E:625:ASN:HB2	1.91	0.53
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.23	0.53
2:G:1067:LEU:HD12	2:G:1067:LEU:N	2.24	0.53
2:G:1154:LEU:HD13	2:G:1198:PRO:HB3	1.91	0.53
2:G:1299:VAL:CG2	2:G:1301:PHE:CE2	2.91	0.53
2:G:1404:VAL:O	2:G:1445:THR:HA	2.09	0.53
2:G:396:ILE:H	2:G:396:ILE:CD1	2.20	0.53
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.43	0.53
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.44	0.53
2:H:1259:LEU:HB2	2:H:1288:PHE:CE1	2.44	0.53
2:H:636:TYR:N	2:H:636:TYR:HD1	2.06	0.53
2:H:723:ALA:O	2:H:726:GLN:HB2	2.09	0.53
2:I:1305:LEU:H	2:I:1305:LEU:HD12	1.73	0.53
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.29	0.53
2:I:2052:LYS:HB3	2:I:2074:TRP:CZ2	2.44	0.53
2:I:467:ILE:CG2	2:I:468:PRO:HD2	2.37	0.53
2:I:740:ILE:H	2:I:740:ILE:HD12	1.73	0.53
2:I:719:GLY:O	2:I:755:GLU:HG3	2.08	0.53
2:J:1031:VAL:HG22	2:J:1041:TRP:HB3	1.91	0.53
2:J:1130:ILE:HB	2:J:1133:LEU:HD22	1.90	0.53
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.72	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.91	0.53
2:J:251:PRO:CG	2:J:316:PHE:HA	2.35	0.53
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.44	0.53
2:J:783:GLY:HA2	2:J:815:ARG:HD3	1.91	0.53
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.63	0.53
2:K:258:LEU:CD1	2:K:291:VAL:HG13	2.39	0.53
2:K:487:ILE:CB	2:K:488:PRO:HD3	2.37	0.53
2:K:663:ILE:H	2:K:663:ILE:CD1	2.21	0.53
2:K:49:LYS:HA	2:K:79:TYR:HE1	1.73	0.53
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.44	0.53
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.39	0.53
2:K:979:LEU:HD21	2:K:999:ALA:CB	2.37	0.53
2:L:1097:PHE:CD2	2:L:1100:ARG:NH1	2.77	0.53
2:L:119:VAL:HA	2:L:122:ILE:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:64:LYS:HE3	2:L:1923:ALA:CB	2.39	0.53
2:L:228:LEU:O	2:L:232:HIS:HD2	1.92	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
1:A:36:LEU:CD2	1:A:44:ILE:HD11	2.39	0.53
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.34	0.53
1:A:1388:LYS:HD3	1:E:1692:GLN:NE2	2.23	0.53
1:E:628:TYR:CE1	1:E:630:LYS:HG2	2.44	0.53
1:F:397:ARG:HH11	1:F:692:THR:HG21	1.73	0.53
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	1.90	0.53
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.09	0.53
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.43	0.53
2:J:1475:LEU:HA	2:J:1526:ALA:HB2	1.91	0.53
2:K:480:GLU:O	2:K:480:GLU:HG2	2.08	0.53
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.44	0.53
1:A:549:TYR:O	1:A:553:ARG:HB3	2.08	0.53
1:D:961:ALA:O	2:J:969:ARG:NH1	2.42	0.53
1:E:397:ARG:HH11	1:E:692:THR:HG21	1.73	0.53
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.38	0.53
1:F:573:VAL:O	1:F:577:LEU:HG	2.09	0.53
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.91	0.53
2:G:2033:SER:HA	2:G:2036:ILE:HD12	1.89	0.53
2:G:24:LEU:HD11	2:G:45:ALA:HB1	1.91	0.53
2:G:578:PRO:HG3	2:G:792:LEU:O	2.08	0.53
2:G:635:TYR:CB	2:G:641:MET:HG3	2.38	0.53
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.49	0.53
2:H:600:VAL:HG13	2:H:601:PRO:N	2.24	0.53
2:I:101:VAL:O	2:I:105:ILE:HG12	2.09	0.53
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	2.24	0.53
2:I:1904:VAL:HG22	2:I:1939:LEU:HD22	1.92	0.53
2:I:447:ALA:O	2:I:451:ILE:HG13	2.09	0.53
2:I:289:ILE:HG22	2:I:490:LEU:HD22	1.90	0.53
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.23	0.53
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.09	0.53
2:J:416:GLN:HA	2:J:419:ILE:HG13	1.91	0.53
2:J:472:THR:HG23	2:J:499:VAL:HA	1.90	0.53
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.23	0.53
2:K:1767:GLU:HB2	2:K:2016:PRO:HG3	1.91	0.53
2:K:268:LEU:HD12	2:K:275:LEU:CD1	2.39	0.53
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.68	0.53
2:K:486:ILE:O	2:K:490:LEU:HG	2.09	0.53
2:K:612:THR:CG2	2:K:629:GLU:O	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.39	0.53
2:L:227:ILE:HD13	2:L:252:LEU:HD13	1.91	0.53
1:A:1157:ASP:O	1:A:1159:LEU:HD12	2.09	0.52
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.74	0.52
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.39	0.52
1:A:1444:GLN:HA	1:A:1444:GLN:OE1	2.08	0.52
1:A:1647:ASP:HB2	1:A:1649:ALA:HB3	1.90	0.52
1:A:18:LEU:HD21	2:G:1844:LEU:CD1	2.39	0.52
1:A:28:TRP:CZ2	1:A:53:LEU:HD22	2.44	0.52
1:B:36:LEU:CD2	1:B:44:ILE:HD11	2.38	0.52
1:B:439:ARG:O	1:B:444:LEU:HD12	2.09	0.52
1:B:628:TYR:HE1	1:B:630:LYS:HA	1.74	0.52
1:C:1432:ILE:CD1	1:C:1481:GLN:HB3	2.39	0.52
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.39	0.52
1:C:636:TYR:HB2	1:C:888:ILE:HD11	1.91	0.52
1:C:907:PHE:O	1:C:909:PRO:HD3	2.09	0.52
1:C:950:ALA:HA	1:C:953:ARG:CZ	2.38	0.52
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.91	0.52
1:E:498:THR:HG21	1:E:858:LEU:O	2.10	0.52
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.09	0.52
1:F:1432:ILE:CD1	1:F:1481:GLN:HB3	2.39	0.52
1:F:653:LYS:HD3	1:F:742:TYR:HE2	1.74	0.52
2:G:1285:ILE:O	2:G:1288:PHE:HB3	2.07	0.52
2:G:1305:LEU:H	2:G:1305:LEU:CD1	2.23	0.52
2:G:155:ASP:HB3	2:G:270:ARG:HH21	1.74	0.52
2:H:1393:ASP:HB3	2:H:1395:LEU:HD21	1.91	0.52
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.39	0.52
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.72	0.52
2:H:581:VAL:HG11	2:H:1113:ILE:HD11	1.91	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:I:1067:LEU:N	2:I:1067:LEU:HD12	2.24	0.52
2:I:1334:ALA:O	2:I:1342:PHE:HA	2.09	0.52
2:I:2033:SER:HA	2:I:2036:ILE:HD12	1.92	0.52
2:I:22:ARG:CG	2:I:39:THR:HA	2.39	0.52
2:J:1334:ALA:O	2:J:1342:PHE:HA	2.08	0.52
2:J:1393:ASP:HB3	2:J:1395:LEU:HD21	1.90	0.52
2:J:1475:LEU:HD11	2:J:1483:LEU:HD11	1.91	0.52
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.91	0.52
2:J:930:THR:HG22	2:J:933:GLU:HG3	1.90	0.52
2:K:1411:LYS:O	2:K:1434:LEU:HD12	2.08	0.52
2:K:468:PRO:HD3	2:K:479:ARG:HH21	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:108:GLU:HA	2:L:111:ARG:HD2	1.90	0.52
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.91	0.52
2:L:1516:GLU:HA	2:L:1521:GLU:O	2.09	0.52
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.38	0.52
2:L:699:ILE:HD12	2:L:699:ILE:N	2.24	0.52
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.43	0.52
1:B:527:ALA:HB2	1:B:637:LEU:HD22	1.91	0.52
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.22	0.52
1:D:1078:ILE:HG21	1:D:1352:MET:HE2	1.91	0.52
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.23	0.52
1:D:788:ARG:HB2	1:D:790:TYR:CD2	2.44	0.52
1:D:883:LEU:N	1:D:883:LEU:HD23	2.24	0.52
1:E:1047:TYR:CZ	1:E:1058:PRO:HB3	2.44	0.52
1:E:1444:GLN:OE1	1:E:1444:GLN:HA	2.08	0.52
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.52
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.39	0.52
1:F:918:LEU:O	1:F:921:GLU:HG3	2.10	0.52
2:G:1194:ARG:NH2	2:G:1601:ASN:OD1	2.42	0.52
2:I:1154:LEU:HD13	2:I:1198:PRO:HB3	1.92	0.52
2:I:1726:PHE:CZ	2:I:1857:VAL:HB	2.44	0.52
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.38	0.52
2:I:452:LEU:HD21	2:I:488:PRO:HA	1.91	0.52
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.90	0.52
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.24	0.52
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.44	0.52
2:L:126:VAL:HG12	2:L:127:ALA:N	2.25	0.52
2:L:189:ILE:HD12	2:L:256:VAL:HG13	1.92	0.52
2:L:24:LEU:HD11	2:L:45:ALA:HB1	1.90	0.52
2:L:616:ASP:OD2	2:L:823:HIS:CE1	2.59	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:A:1692:GLN:HE22	1:E:1388:LYS:HD3	1.75	0.52
1:A:573:VAL:O	1:A:577:LEU:HG	2.09	0.52
1:A:613:PRO:C	1:A:615:LEU:H	2.13	0.52
1:B:1381:MET:HG2	1:B:1382:THR:N	2.22	0.52
1:B:11:TYR:O	1:B:15:VAL:HG23	2.08	0.52
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.05	0.52
1:C:1099:GLU:HA	1:C:1149:LEU:HD23	1.91	0.52
1:C:498:THR:HG22	1:C:508:TYR:HD1	1.73	0.52
1:E:1475:GLU:HB3	1:E:1479:ARG:NH2	2.24	0.52
1:F:1523:HIS:HB2	1:F:1624:SER:HA	1.91	0.52
1:F:445:LEU:HD11	1:F:481:LEU:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:498:THR:HG21	1:F:858:LEU:O	2.09	0.52
1:F:619:LYS:HG2	1:F:620:LYS:N	2.25	0.52
2:G:1031:VAL:HG22	2:G:1041:TRP:HB3	1.91	0.52
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.24	0.52
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.52
2:G:49:LYS:HA	2:G:79:TYR:HE1	1.73	0.52
2:G:31:LEU:HD13	2:G:75:LEU:HD21	1.91	0.52
2:G:779:GLY:HA3	2:G:811:MET:CE	2.39	0.52
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.45	0.52
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.90	0.52
2:H:246:ALA:HB3	2:H:247:PRO:HD3	1.91	0.52
2:H:645:ILE:HD13	2:H:687:ILE:HD11	1.91	0.52
2:H:930:THR:HG22	2:H:933:GLU:H	1.74	0.52
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.40	0.52
2:I:1091:HIS:O	2:I:1094:HIS:HB2	2.09	0.52
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.24	0.52
2:I:138:ARG:HB3	2:I:192:THR:HG23	1.90	0.52
2:I:1902:TYR:OH	2:I:1966:ARG:HB2	2.09	0.52
2:J:1067:LEU:HD12	2:J:1067:LEU:N	2.24	0.52
2:J:1227:LYS:HG2	2:J:1228:LEU:N	2.24	0.52
2:J:2052:LYS:H	2:J:2052:LYS:CE	2.09	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.24	0.52
2:K:24:LEU:HD11	2:K:45:ALA:HB1	1.89	0.52
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.45	0.52
2:L:1247:PHE:HB3	2:L:1256:VAL:CG1	2.39	0.52
2:L:208:LEU:HA	2:L:211:LEU:HD12	1.92	0.52
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.44	0.52
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.24	0.52
1:A:11:TYR:O	1:A:15:VAL:HG23	2.09	0.52
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.91	0.52
1:A:653:LYS:HD3	1:A:742:TYR:HE2	1.73	0.52
1:B:415:TYR:O	1:B:419:PHE:HD1	1.91	0.52
1:B:613:PRO:O	1:B:615:LEU:N	2.43	0.52
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.44	0.52
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.37	0.52
1:C:1574:LEU:O	1:C:1578:LEU:HG	2.10	0.52
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.90	0.52
1:E:1565:PRO:O	1:E:1567:GLY:N	2.42	0.52
1:E:2:ARG:HB2	1:E:5:VAL:HB	1.91	0.52
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.90	0.52
1:E:619:LYS:HG2	1:E:620:LYS:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:636:TYR:HB2	1:E:888:ILE:HD11	1.92	0.52
1:F:1443:LEU:HD13	1:F:1470:ARG:HB3	1.91	0.52
1:F:788:ARG:HB2	1:F:790:TYR:CD2	2.44	0.52
2:G:1335:PHE:HE1	2:G:1629:ILE:HD13	1.73	0.52
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.34	0.52
2:G:179:ILE:O	2:G:179:ILE:HG23	2.09	0.52
2:G:251:PRO:CG	2:G:316:PHE:HA	2.38	0.52
2:H:101:VAL:O	2:H:105:ILE:HG12	2.09	0.52
2:H:119:VAL:HA	2:H:122:ILE:HG22	1.90	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:H:979:LEU:HD21	2:H:999:ALA:CB	2.39	0.52
2:I:1142:ILE:HD11	2:I:1209:PRO:HB3	1.90	0.52
2:I:1745:LEU:HB3	2:I:1799:LEU:HD22	1.90	0.52
2:I:24:LEU:HD11	2:I:45:ALA:HB1	1.90	0.52
2:J:1741:ASN:HD21	2:J:1798:GLY:HA3	1.75	0.52
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.08	0.52
2:J:465:LEU:HB2	2:J:479:ARG:HG2	1.91	0.52
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.44	0.52
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.92	0.52
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.44	0.52
2:L:1008:ILE:HD12	2:L:1013:VAL:HG22	1.91	0.52
2:L:1138:ASP:HB2	2:L:1140:ASN:H	1.73	0.52
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.74	0.52
2:L:1315:ILE:H	2:L:1315:ILE:HD12	1.73	0.52
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.69	0.52
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.92	0.52
1:A:1230:SER:HA	1:A:1311:GLN:NE2	2.21	0.52
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.91	0.52
1:A:811:ASP:N	1:A:811:ASP:OD1	2.43	0.52
1:B:1443:LEU:HD13	1:B:1470:ARG:HB3	1.90	0.52
1:B:1672:GLY:HA3	1:B:1678:LEU:HD23	1.92	0.52
1:C:1565:PRO:O	1:C:1566:LYS:C	2.48	0.52
1:C:28:TRP:CE2	1:C:53:LEU:HD22	2.45	0.52
1:C:335:LEU:HD12	1:C:335:LEU:C	2.30	0.52
1:D:1610:ARG:NH1	1:D:1610:ARG:CG	2.61	0.52
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.09	0.52
1:F:1230:SER:HA	1:F:1311:GLN:NE2	2.23	0.52
1:F:918:LEU:HA	1:F:921:GLU:HG2	1.92	0.52
2:G:1247:PHE:HB3	2:G:1256:VAL:CG1	2.39	0.52
2:G:1335:PHE:CE1	2:G:1629:ILE:HD11	2.44	0.52
2:H:2033:SER:HA	2:H:2036:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.40	0.52
2:H:663:ILE:H	2:H:663:ILE:CD1	2.23	0.52
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.44	0.52
2:I:487:ILE:CB	2:I:488:PRO:HD3	2.38	0.52
2:I:652:ILE:HG23	2:I:653:PRO:HD2	1.90	0.52
2:I:676:LEU:HD23	2:I:679:ARG:NH2	2.23	0.52
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.74	0.52
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.38	0.52
2:J:1881:TYR:OH	2:J:2009:PHE:HE1	1.93	0.52
2:J:378:ILE:HG23	2:J:391:VAL:HG13	1.92	0.52
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.39	0.52
2:K:1915:LEU:HB2	2:K:1935:ALA:HB1	1.90	0.52
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.08	0.52
2:L:1091:HIS:O	2:L:1094:HIS:HB2	2.10	0.52
2:L:283:THR:HG23	2:L:470:TYR:O	2.09	0.52
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.40	0.52
1:A:621:ASP:HB3	1:A:625:ASN:HB2	1.91	0.52
1:A:918:LEU:HA	1:A:921:GLU:HG2	1.92	0.52
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.09	0.52
1:B:476:ASN:O	1:B:480:VAL:HG23	2.10	0.52
1:C:1602:PHE:N	1:C:1602:PHE:HD2	2.07	0.52
1:D:427:ARG:HD2	1:D:490:VAL:HG12	1.91	0.52
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.45	0.52
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.92	0.52
1:E:653:LYS:HD3	1:E:742:TYR:HE2	1.74	0.52
2:G:440:HIS:CD2	2:G:497:ASP:O	2.63	0.52
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.92	0.52
2:H:636:TYR:N	2:H:636:TYR:CD1	2.77	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.39	0.52
2:I:472:THR:HG23	2:I:499:VAL:HA	1.91	0.52
2:I:613:VAL:N	2:I:614:PRO:HD3	2.25	0.52
2:I:60:THR:HG22	2:I:62:GLU:H	1.75	0.52
2:I:606:ALA:HB2	2:I:811:MET:CG	2.38	0.52
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.44	0.52
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.38	0.52
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.52
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.52
2:K:1468:ARG:NH1	2:K:1468:ARG:CG	2.52	0.52
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.91	0.52
2:L:1579:ASN:O	2:L:1583:VAL:HG23	2.10	0.52
1:C:36:LEU:CD2	1:C:44:ILE:HD11	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:918:LEU:HA	1:C:921:GLU:HG2	1.92	0.52
1:D:1047:TYR:CZ	1:D:1058:PRO:HB3	2.43	0.52
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.09	0.52
1:E:1580:VAL:HG22	1:E:1585:ILE:O	2.09	0.52
1:F:1067:LYS:HB3	1:F:1068:TYR:CD1	2.45	0.52
1:F:1106:LEU:HD23	1:F:1107:GLU:N	2.24	0.52
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.45	0.52
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.25	0.52
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.23	0.52
2:G:1621:GLU:OE2	2:G:1629:ILE:HG23	2.10	0.52
2:G:747:ARG:NH1	2:G:780:SER:O	2.42	0.52
2:G:855:ILE:HD13	2:G:856:THR:N	2.23	0.52
2:H:1138:ASP:HB2	2:H:1140:ASN:H	1.73	0.52
2:H:1519:THR:OG1	2:H:1521:GLU:HG2	2.10	0.52
2:H:1868:GLN:HG2	2:H:1873:ARG:HH22	1.74	0.52
2:H:43:PHE:CB	2:I:22:ARG:HE	2.22	0.52
2:H:480:GLU:HG2	2:H:480:GLU:O	2.10	0.52
2:H:833:VAL:HG13	2:H:1077:LYS:HA	1.92	0.52
2:H:935:VAL:HG11	2:H:997:LEU:HD21	1.90	0.52
2:I:1061:VAL:HG12	2:I:1066:ILE:HD11	1.91	0.52
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.45	0.52
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.24	0.52
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.08	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.25	0.52
2:I:930:THR:HG22	2:I:933:GLU:CG	2.38	0.52
2:I:942:MET:CE	2:I:955:LEU:HB3	2.39	0.52
2:J:747:ARG:HD3	2:J:1071:VAL:HG11	1.91	0.52
2:J:1097:PHE:CD2	2:J:1100:ARG:NH1	2.78	0.52
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.90	0.52
2:J:942:MET:HE1	2:J:955:LEU:HB3	1.92	0.52
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.91	0.52
2:K:1259:LEU:HB2	2:K:1288:PHE:CD1	2.44	0.52
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.91	0.52
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.40	0.52
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.92	0.52
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.45	0.52
2:L:1142:ILE:HD11	2:L:1209:PRO:HB3	1.91	0.52
2:L:1262:ARG:NH2	2:L:1277:VAL:HG11	2.24	0.52
2:L:1804:GLN:HG2	2:L:1865:LEU:CD2	2.40	0.52
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.09	0.52
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:TYR:CE2	1:A:610:GLU:HB3	2.44	0.52
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.09	0.52
1:B:1199:LEU:C	1:B:1201:SER:H	2.13	0.52
1:B:1160:VAL:HB	1:B:1352:MET:HE1	1.92	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.40	0.52
1:E:1230:SER:HA	1:E:1311:GLN:NE2	2.23	0.52
1:E:1602:PHE:N	1:E:1602:PHE:HD2	2.08	0.52
1:E:42:GLU:OE2	2:K:1631:ARG:NH2	2.41	0.52
1:F:339:GLN:O	1:F:343:ILE:HG13	2.09	0.52
2:G:1475:LEU:HA	2:G:1526:ALA:HB2	1.92	0.52
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.45	0.52
2:H:1316:VAL:HG13	2:H:1348:PHE:CE2	2.45	0.52
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.44	0.52
2:I:347:PRO:HA	2:I:432:PHE:CD1	2.44	0.52
1:D:81:TYR:CD1	2:J:1821:MET:HE3	2.45	0.52
2:J:2052:LYS:HB3	2:J:2074:TRP:CD2	2.45	0.52
2:J:279:PHE:HB2	2:J:467:ILE:HD12	1.92	0.52
2:J:832:ILE:HA	2:J:868:LEU:HD21	1.90	0.52
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.91	0.52
2:J:980:LEU:HD21	2:J:986:LEU:HD21	1.92	0.52
2:K:227:ILE:HD13	2:K:252:LEU:HD13	1.92	0.52
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.91	0.52
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.25	0.52
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.25	0.52
2:L:179:ILE:O	2:L:179:ILE:HG23	2.09	0.52
2:L:1802:ALA:HB1	2:L:1804:GLN:NE2	2.17	0.52
2:L:1902:TYR:OH	2:L:1966:ARG:HB2	2.10	0.52
2:L:350:MET:HG3	2:L:435:ILE:HB	1.92	0.52
2:L:600:VAL:HG13	2:L:601:PRO:N	2.24	0.52
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.44	0.52
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.45	0.52
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.36	0.52
1:A:843:VAL:O	1:A:843:VAL:HG22	2.10	0.52
1:B:1443:LEU:HD11	1:B:1470:ARG:HB3	1.90	0.52
1:B:585:MET:O	1:B:586:GLN:C	2.47	0.52
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.89	0.52
1:C:1273:ILE:HG13	1:C:1273:ILE:O	2.10	0.52
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.44	0.52
1:C:342:ILE:HD11	1:E:342:ILE:HD11	1.92	0.52
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.45	0.52
1:D:1143:ARG:HH21	1:E:356:LYS:NZ	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.40	0.52
1:F:651:GLN:HA	1:F:677:GLY:HA3	1.92	0.52
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.08	0.52
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.09	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.44	0.52
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.09	0.52
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.40	0.52
2:G:99:LEU:O	2:G:103:LYS:HG3	2.10	0.52
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.24	0.52
2:H:1466:VAL:O	2:H:1470:LYS:HG2	2.10	0.52
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.23	0.52
2:H:1871:VAL:HG23	2:H:2003:VAL:HG13	1.92	0.52
2:H:134:ILE:HG12	2:H:545:ILE:HD12	1.92	0.52
2:I:1706:MET:O	2:I:1709:TYR:HB3	2.09	0.52
2:J:1247:PHE:HB3	2:J:1256:VAL:CG1	2.39	0.52
2:J:179:ILE:O	2:J:179:ILE:HG23	2.09	0.52
2:J:289:ILE:HG22	2:J:490:LEU:HD22	1.92	0.52
2:J:636:TYR:CD1	2:J:636:TYR:N	2.78	0.52
2:K:99:LEU:O	2:K:103:LYS:HG3	2.10	0.52
2:K:120:HIS:CD2	2:K:137:VAL:HG11	2.45	0.52
2:K:189:ILE:HD13	2:K:259:ALA:HB3	1.92	0.52
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.92	0.52
2:L:1871:VAL:CG1	2:L:1872:GLU:N	2.73	0.52
2:J:1340:LYS:HE3	2:L:373:PRO:HG2	1.92	0.52
2:L:384:ASN:HB3	2:L:527:LEU:HD11	1.91	0.52
2:L:910:PHE:HD2	2:L:912:LYS:H	1.57	0.52
1:A:1394:PRO:HB3	1:A:1627:PHE:CE2	2.45	0.52
1:A:648:LEU:HD12	1:A:649:THR:N	2.25	0.52
1:A:995:VAL:CG1	1:A:1375:ILE:HG23	2.41	0.52
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.91	0.52
1:B:577:LEU:HD23	1:B:584:ILE:HG21	1.92	0.52
1:C:1268:SER:HB3	1:F:1389:ILE:CG1	2.10	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:F:843:VAL:HG22	1:F:843:VAL:O	2.09	0.52
2:G:1888:PRO:HB3	2:G:1895:PHE:CD1	2.42	0.52
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.45	0.52
2:H:179:ILE:O	2:H:179:ILE:HG23	2.10	0.52
2:H:1977:ARG:HD2	2:H:1978:LYS:HG3	1.92	0.52
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.52
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.39	0.52
2:I:215:TRP:CE3	2:I:215:TRP:N	2.78	0.52
2:I:910:PHE:HD2	2:I:912:LYS:H	1.58	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:1223:SER:CB	2:J:1226:ALA:HB3	2.39	0.52
2:J:1405:ILE:HA	2:J:1445:THR:OG1	2.10	0.52
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.09	0.52
2:K:2033:SER:HA	2:K:2036:ILE:HD12	1.91	0.52
2:K:582:LYS:HA	2:K:587:GLN:O	2.10	0.52
2:K:621:THR:HG21	2:K:628:ILE:HD12	1.91	0.52
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.44	0.52
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.40	0.51
1:A:1574:LEU:O	1:A:1578:LEU:HG	2.09	0.51
1:A:621:ASP:HB3	1:A:625:ASN:H	1.75	0.51
1:B:1157:ASP:O	1:B:1159:LEU:HD12	2.10	0.51
1:C:1574:LEU:CD1	1:C:1622:VAL:HG11	2.39	0.51
1:C:653:LYS:HD3	1:C:742:TYR:HE2	1.75	0.51
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.38	0.51
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.93	0.51
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.09	0.51
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.91	0.51
2:G:636:TYR:N	2:G:636:TYR:CD1	2.78	0.51
2:H:1375:HIS:ND1	2:H:1610:MET:HG2	2.24	0.51
2:H:1543:TYR:HD2	2:H:1544:LEU:HD23	1.74	0.51
2:H:190:TYR:HE1	2:H:201:ILE:HG21	1.75	0.51
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.44	0.51
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.75	0.51
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.23	0.51
2:I:607:GLY:HA2	2:I:612:THR:HG21	1.91	0.51
2:I:645:ILE:HD13	2:I:687:ILE:HD11	1.92	0.51
2:I:855:ILE:HD13	2:I:856:THR:N	2.23	0.51
2:J:895:LEU:HD13	2:J:1034:LEU:HB3	1.92	0.51
2:J:581:VAL:HG11	2:J:1113:ILE:HD11	1.92	0.51
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.51
2:K:855:ILE:HD13	2:K:856:THR:N	2.22	0.51
2:L:1475:LEU:HA	2:L:1526:ALA:HB2	1.91	0.51
2:L:331:LEU:HD22	2:L:396:ILE:HG13	1.92	0.51
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.30	0.51
1:A:457:THR:HG22	1:A:464:GLN:HA	1.91	0.51
1:B:1041:PRO:HA	1:B:1046:PRO:HA	1.92	0.51
1:B:718:SER:HA	1:E:378:GLU:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:653:LYS:HD3	1:B:742:TYR:HE2	1.75	0.51
1:C:1078:ILE:HG21	1:C:1352:MET:HE2	1.91	0.51
1:D:1199:LEU:C	1:D:1201:SER:H	2.12	0.51
1:D:1273:ILE:O	1:D:1273:ILE:HG13	2.10	0.51
1:E:15:VAL:HG11	2:K:2022:LEU:CD2	2.41	0.51
1:E:1378:ILE:HD11	1:E:1642:LEU:HB2	1.93	0.51
1:F:1444:GLN:OE1	1:F:1444:GLN:HA	2.10	0.51
2:G:1594:ARG:CG	2:G:1594:ARG:NH1	2.62	0.51
2:G:1723:ASP:OD1	2:G:1735:ILE:HG13	2.10	0.51
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.11	0.51
2:G:227:ILE:HD13	2:G:252:LEU:HD13	1.92	0.51
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.75	0.51
2:G:930:THR:HG23	2:G:933:GLU:H	1.76	0.51
2:H:1475:LEU:HA	2:H:1526:ALA:HB2	1.91	0.51
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.92	0.51
2:H:141:TYR:OH	2:H:267:THR:HG23	2.09	0.51
2:I:1259:LEU:HB2	2:I:1288:PHE:CE1	2.45	0.51
2:I:1305:LEU:HD23	2:I:1366:ILE:CG1	2.41	0.51
2:I:1375:HIS:ND1	2:I:1610:MET:HG2	2.25	0.51
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.10	0.51
2:I:1694:PHE:HD2	2:I:1843:ALA:CB	2.22	0.51
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.92	0.51
2:J:1103:TYR:O	2:J:1106:LYS:HB2	2.11	0.51
2:J:1315:ILE:HD12	2:J:1315:ILE:H	1.76	0.51
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.45	0.51
2:J:1440:THR:HG22	2:J:1440:THR:O	2.10	0.51
2:J:979:LEU:HD21	2:J:999:ALA:CB	2.41	0.51
2:K:1334:ALA:O	2:K:1342:PHE:HA	2.10	0.51
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.10	0.51
2:L:1621:GLU:OE2	2:L:1629:ILE:HG23	2.10	0.51
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.10	0.51
1:A:1161:ALA:O	1:A:1163:GLN:HG3	2.10	0.51
1:A:12:THR:O	1:A:16:GLU:HG2	2.11	0.51
1:A:498:THR:HG21	1:A:858:LEU:O	2.09	0.51
1:A:535:TYR:CE1	1:F:580:ASN:CB	2.93	0.51
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.41	0.51
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.36	0.51
1:C:1264:MET:HB3	1:F:1390:GLY:O	2.10	0.51
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.46	0.51
1:D:11:TYR:O	1:D:15:VAL:HG23	2.10	0.51
1:D:476:ASN:O	1:D:480:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1067:LYS:HB3	1:E:1068:TYR:CD1	2.45	0.51
1:A:1264:MET:HB3	1:E:1390:GLY:O	2.10	0.51
1:E:616:HIS:C	1:E:617:LEU:HD23	2.30	0.51
1:A:378:GLU:OE1	1:F:718:SER:HA	2.10	0.51
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.74	0.51
2:G:1227:LYS:HG2	2:G:1228:LEU:N	2.26	0.51
2:G:1259:LEU:HB2	2:G:1288:PHE:CE1	2.46	0.51
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.24	0.51
2:G:1516:GLU:HA	2:G:1521:GLU:O	2.09	0.51
2:G:1887:ASN:ND2	2:G:1890:ARG:HG3	2.25	0.51
2:G:1915:LEU:HB2	2:G:1935:ALA:HB1	1.93	0.51
2:G:2050:ILE:HG12	2:G:2050:ILE:O	2.09	0.51
2:G:979:LEU:HD21	2:G:999:ALA:CB	2.39	0.51
2:H:1156:ASP:CB	2:H:1159:SER:H	2.19	0.51
2:H:521:VAL:O	2:H:526:VAL:HG21	2.10	0.51
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.92	0.51
2:H:60:THR:HG22	2:H:62:GLU:H	1.75	0.51
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.92	0.51
2:I:1631:ARG:HA	2:I:1686:GLU:HB2	1.92	0.51
2:J:949:ARG:HH22	2:J:1052:ASP:CG	2.14	0.51
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.91	0.51
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.92	0.51
2:J:916:GLY:C	2:J:929:MET:HE2	2.31	0.51
2:J:962:PHE:O	2:J:965:ARG:HB3	2.11	0.51
2:K:108:GLU:HA	2:K:111:ARG:HD2	1.93	0.51
2:K:1330:ASN:HD22	2:K:1618:SER:HB2	1.76	0.51
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.40	0.51
2:K:2052:LYS:HB3	2:K:2074:TRP:CZ2	2.45	0.51
2:L:1619:LEU:O	2:L:1623:TRP:HB2	2.09	0.51
2:L:279:PHE:HB2	2:L:467:ILE:HD12	1.92	0.51
2:L:447:ALA:O	2:L:451:ILE:HG13	2.10	0.51
2:L:521:VAL:O	2:L:526:VAL:HG21	2.09	0.51
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.92	0.51
1:A:342:ILE:HG22	1:D:335:LEU:HD13	1.93	0.51
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.44	0.51
1:B:1160:VAL:HG23	1:B:1327:ALA:HB2	1.91	0.51
1:B:1444:GLN:O	1:B:1447:VAL:HB	2.10	0.51
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.09	0.51
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.78	0.51
1:E:1401:LEU:O	1:E:1401:LEU:HD22	2.10	0.51
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1492:LEU:HD22	2:G:1511:GLY:HA3	1.93	0.51
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.74	0.51
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.44	0.51
2:H:1259:LEU:HB2	2:H:1288:PHE:CD1	2.46	0.51
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.10	0.51
2:H:1516:GLU:HA	2:H:1521:GLU:O	2.11	0.51
2:H:1767:GLU:HB2	2:H:2016:PRO:HG3	1.91	0.51
2:H:775:VAL:O	2:H:777:VAL:HG23	2.11	0.51
2:I:108:GLU:HA	2:I:111:ARG:HD2	1.93	0.51
2:I:1346:MET:HG2	2:I:1617:ARG:NH2	2.25	0.51
2:I:290:VAL:HA	2:I:490:LEU:CD1	2.37	0.51
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.58	0.51
2:J:616:ASP:OD2	2:J:823:HIS:CE1	2.62	0.51
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.08	0.51
2:K:1154:LEU:HD13	2:K:1198:PRO:HB3	1.93	0.51
2:K:1510:ILE:HA	2:K:1528:VAL:O	2.10	0.51
2:K:24:LEU:CD1	2:K:45:ALA:HB1	2.40	0.51
2:K:170:TYR:CE1	2:K:510:ALA:HB2	2.46	0.51
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.11	0.51
1:B:628:TYR:CE1	1:B:630:LYS:HG2	2.45	0.51
1:B:788:ARG:HB2	1:B:790:TYR:CD2	2.45	0.51
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.42	0.51
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.92	0.51
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.40	0.51
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.09	0.51
1:F:1470:ARG:O	1:F:1474:ILE:HG13	2.09	0.51
2:G:1543:TYR:HD2	2:G:1544:LEU:HD23	1.74	0.51
2:G:1694:PHE:HD2	2:G:1843:ALA:CB	2.23	0.51
2:G:792:LEU:HD12	2:G:792:LEU:O	2.09	0.51
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.92	0.51
2:H:608:MET:H	2:H:612:THR:CB	2.24	0.51
2:H:617:PHE:HD1	2:H:822:ALA:HA	1.76	0.51
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.10	0.51
2:I:1863:ARG:HB2	2:I:2017:PHE:HE1	1.74	0.51
1:C:17:LEU:HD22	2:I:2041:PRO:HB3	1.93	0.51
1:A:75:GLN:HE21	2:I:335:THR:HG23	1.76	0.51
2:I:486:ILE:O	2:I:490:LEU:HG	2.10	0.51
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.93	0.51
2:J:350:MET:CE	2:J:435:ILE:HD12	2.41	0.51
2:K:119:VAL:HA	2:K:122:ILE:HG22	1.92	0.51
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:182:TYR:CD1	2:K:183:PHE:N	2.79	0.51
2:K:350:MET:HG3	2:K:435:ILE:HB	1.92	0.51
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.76	0.51
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.26	0.51
1:F:22:PHE:O	2:L:2010:LEU:HD12	2.10	0.51
2:L:486:ILE:O	2:L:490:LEU:HG	2.10	0.51
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.45	0.51
2:L:699:ILE:HD12	2:L:699:ILE:H	1.75	0.51
1:A:1047:TYR:CZ	1:A:1058:PRO:HB3	2.46	0.51
1:A:967:PHE:CE2	1:A:1374:PRO:HG3	2.46	0.51
1:B:673:LEU:HD21	1:B:884:MET:HE3	1.93	0.51
1:B:918:LEU:HA	1:B:921:GLU:HG2	1.93	0.51
1:C:1067:LYS:HB3	1:C:1068:TYR:CD1	2.46	0.51
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.51
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.10	0.51
1:F:999:LEU:HD11	1:F:1575:ASN:HB3	1.91	0.51
1:F:833:TRP:CH2	1:F:839:ILE:HD11	2.45	0.51
2:G:208:LEU:HA	2:G:211:LEU:HD12	1.93	0.51
2:G:170:TYR:CE1	2:G:510:ALA:HB2	2.46	0.51
2:H:1175:MET:HE3	2:H:1192:LEU:HD11	1.91	0.51
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.45	0.51
2:H:1887:ASN:ND2	2:H:1890:ARG:HG3	2.25	0.51
2:H:350:MET:HG3	2:H:435:ILE:HB	1.92	0.51
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.41	0.51
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	2.10	0.51
2:J:350:MET:HG3	2:J:435:ILE:HB	1.92	0.51
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.41	0.51
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.92	0.51
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.25	0.51
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.40	0.51
2:L:268:LEU:HD12	2:L:275:LEU:CD1	2.41	0.51
2:L:388:ASN:C	2:L:388:ASN:HD22	2.13	0.51
2:L:378:ILE:HG23	2:L:391:VAL:HG13	1.92	0.51
1:A:1602:PHE:N	1:A:1602:PHE:HD2	2.09	0.51
1:A:1610:ARG:NH1	1:A:1610:ARG:CG	2.58	0.51
1:A:1638:HIS:ND1	1:A:1639:PRO:HD2	2.26	0.51
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.46	0.51
1:B:430:VAL:CG1	1:B:490:VAL:HG11	2.40	0.51
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.92	0.51
1:C:1041:PRO:HA	1:C:1046:PRO:HA	1.93	0.51
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.45	0.51
1:C:18:LEU:HD21	2:I:1844:LEU:HD11	1.92	0.51
1:C:619:LYS:HG2	1:C:620:LYS:N	2.25	0.51
1:D:1071:TYR:CD2	1:D:1071:TYR:C	2.84	0.51
1:D:1705:GLN:NE2	1:D:1709:GLY:HA2	2.25	0.51
1:D:553:ARG:HH21	1:D:567:ASN:HD21	1.59	0.51
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.46	0.51
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.10	0.51
1:F:575:ARG:HG2	1:F:579:MET:SD	2.51	0.51
2:G:1091:HIS:O	2:G:1094:HIS:HB2	2.11	0.51
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.92	0.51
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.11	0.51
2:G:1678:VAL:O	2:G:1679:LEU:HD23	2.11	0.51
2:G:743:TRP:CE2	2:G:761:ILE:HD11	2.45	0.51
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.91	0.51
2:H:49:LYS:HA	2:H:79:TYR:HE1	1.76	0.51
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.92	0.51
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.11	0.51
2:I:455:VAL:HG12	2:I:455:VAL:O	2.10	0.51
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.25	0.51
2:J:145:ALA:CB	2:J:195:SER:HB3	2.40	0.51
2:J:1492:LEU:HD22	2:J:1511:GLY:HA3	1.91	0.51
2:J:1896:THR:CG2	2:J:1897:GLU:N	2.73	0.51
2:J:190:TYR:HE1	2:J:201:ILE:HG21	1.75	0.51
2:K:1137:ARG:HB3	2:K:1142:ILE:HG23	1.93	0.51
2:K:174:GLY:H	2:K:517:GLY:CA	2.24	0.51
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.41	0.51
2:L:1492:LEU:HD22	2:L:1511:GLY:HA3	1.92	0.51
2:L:1622:THR:O	2:L:1626:GLU:HA	2.11	0.51
1:A:1672:GLY:HA3	1:A:1678:LEU:HD23	1.92	0.51
1:B:1303:LEU:HD23	1:B:1361:VAL:HB	1.92	0.51
1:B:24:MET:HE2	2:H:2043:VAL:HG13	1.92	0.51
1:B:43:ARG:NH1	2:H:1687:GLN:HE21	2.09	0.51
1:C:1199:LEU:C	1:C:1201:SER:H	2.14	0.51
1:C:1425:LEU:CD2	1:C:1429:ARG:HH21	2.19	0.51
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.45	0.51
1:E:1704:THR:CG2	1:E:1714:PRO:HG3	2.41	0.51
1:E:24:MET:HE2	2:K:2043:VAL:HG13	1.92	0.51
1:E:339:GLN:O	1:E:343:ILE:HG13	2.11	0.51
1:F:432:GLN:O	1:F:436:ILE:HG13	2.11	0.51
2:G:1767:GLU:HB2	2:G:2016:PRO:CG	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2005:PHE:HA	2:G:2010:LEU:CD1	2.29	0.51
2:G:699:ILE:H	2:G:699:ILE:HD12	1.75	0.51
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.51
2:H:108:GLU:HA	2:H:111:ARG:HD2	1.92	0.51
2:H:1706:MET:O	2:H:1709:TYR:HB3	2.11	0.51
2:H:487:ILE:CB	2:H:488:PRO:HD3	2.38	0.51
2:I:1137:ARG:HB3	2:I:1142:ILE:HG23	1.93	0.51
2:I:2052:LYS:H	2:I:2052:LYS:CE	2.10	0.51
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.72	0.51
2:J:1475:LEU:HD23	2:J:1476:ASP:N	2.25	0.51
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.68	0.51
2:K:1519:THR:OG1	2:K:1521:GLU:HG2	2.10	0.51
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.92	0.51
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.51
2:L:1154:LEU:HD13	2:L:1198:PRO:HB3	1.92	0.51
2:L:1259:LEU:HB2	2:L:1288:PHE:CD1	2.44	0.51
2:L:487:ILE:HB	2:L:488:PRO:CD	2.40	0.51
1:B:1097:LEU:CD1	1:D:1149:LEU:HD12	2.41	0.51
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	2.11	0.51
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.11	0.51
1:B:1534:GLU:HG2	1:B:1625:PHE:HE1	1.75	0.51
1:C:404:ASN:HD21	1:C:1607:TYR:H	1.56	0.51
1:D:1209:PHE:CZ	1:D:1301:VAL:HG21	2.46	0.51
1:D:421:ARG:HH22	1:D:1613:LYS:CB	2.24	0.51
1:D:524:LYS:O	1:D:528:GLU:HG3	2.10	0.51
1:D:574:ILE:HG23	1:D:584:ILE:HD12	1.92	0.51
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.39	0.51
1:C:1270:THR:HA	1:F:1386:THR:O	2.09	0.51
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	1.93	0.51
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.26	0.51
2:G:215:TRP:CE3	2:G:215:TRP:N	2.79	0.51
2:H:1694:PHE:HD2	2:H:1843:ALA:CB	2.24	0.51
2:H:268:LEU:HD12	2:H:275:LEU:CD1	2.40	0.51
2:I:1353:GLY:CA	2:I:1397:THR:HG21	2.41	0.51
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.58	0.51
2:I:458:MET:C	2:I:459:LYS:HG3	2.31	0.51
2:I:581:VAL:HG11	2:I:1113:ILE:HD11	1.93	0.51
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.46	0.51
2:J:1904:VAL:HG22	2:J:1939:LEU:HD22	1.92	0.51
2:K:1217:ILE:HD12	2:K:1234:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1348:PHE:O	2:K:1351:VAL:HG12	2.11	0.51
2:K:1475:LEU:HD23	2:K:1476:ASP:N	2.26	0.51
2:K:1694:PHE:HD2	2:K:1843:ALA:CB	2.24	0.51
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.46	0.51
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.41	0.51
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.41	0.51
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.46	0.51
2:L:1694:PHE:HD2	2:L:1843:ALA:CB	2.24	0.51
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.45	0.51
2:L:581:VAL:HG11	2:L:1113:ILE:HD11	1.92	0.51
2:L:649:GLU:HG3	2:L:650:LYS:HG3	1.92	0.51
2:L:855:ILE:HD13	2:L:856:THR:N	2.22	0.51
1:A:754:ARG:HH21	1:A:762:LYS:HD3	1.76	0.51
1:B:621:ASP:HB3	1:B:625:ASN:HB2	1.93	0.51
1:C:1386:THR:O	1:F:1270:THR:HA	2.11	0.51
1:D:995:VAL:HG13	1:D:1375:ILE:HG23	1.93	0.51
1:D:415:TYR:CE2	1:D:1614:THR:HB	2.46	0.51
1:D:628:TYR:HE1	1:D:630:LYS:HA	1.76	0.51
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.46	0.51
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.93	0.51
1:E:788:ARG:HB2	1:E:790:TYR:CD2	2.45	0.51
2:G:1189:THR:O	2:G:1191:PRO:HD3	2.11	0.51
2:G:1200:ARG:N	2:G:1200:ARG:HD3	2.24	0.51
2:G:1884:CYS:HB3	2:G:1936:LEU:CD1	2.40	0.51
2:H:129:ILE:HG21	2:H:132:LYS:HG3	1.93	0.51
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.37	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.94	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.11	0.51
2:I:1175:MET:HE1	2:I:1192:LEU:HD11	1.92	0.51
2:I:420:PRO:HB2	2:I:423:GLN:HB2	1.93	0.51
2:I:649:GLU:HG3	2:I:650:LYS:HG3	1.93	0.51
2:J:452:LEU:HD21	2:J:488:PRO:HA	1.92	0.51
2:J:170:TYR:CE1	2:J:510:ALA:HB2	2.46	0.51
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.26	0.51
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.46	0.51
2:K:215:TRP:N	2:K:215:TRP:CE3	2.79	0.51
2:K:664:TYR:CD1	2:K:670:MET:HE1	2.45	0.51
1:B:1067:LYS:HB3	1:B:1068:TYR:CD1	2.47	0.50
1:B:1106:LEU:HD13	1:B:1142:LEU:HD13	1.93	0.50
1:B:1603:ASP:HB2	1:B:1604:TYR:CD2	2.46	0.50
1:C:768:ARG:HA	1:C:772:THR:OG1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:ILE:HG21	2:J:1821:MET:HE1	1.93	0.50
1:E:1068:TYR:O	1:E:1072:ILE:HG13	2.10	0.50
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.76	0.50
1:E:701:ARG:HH11	1:E:1610:ARG:NH2	2.09	0.50
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.92	0.50
1:E:965:TYR:CE1	1:E:1199:LEU:CD2	2.93	0.50
1:F:1099:GLU:HA	1:F:1149:LEU:HD23	1.93	0.50
1:F:1303:LEU:HD23	1:F:1361:VAL:HB	1.92	0.50
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.92	0.50
2:G:664:TYR:CD1	2:G:670:MET:HE1	2.46	0.50
2:H:300:THR:HG22	2:H:302:ASP:H	1.75	0.50
2:H:699:ILE:H	2:H:699:ILE:HD12	1.76	0.50
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.93	0.50
2:J:1442:TYR:CA	2:J:1445:THR:HG22	2.40	0.50
2:J:486:ILE:O	2:J:490:LEU:HG	2.11	0.50
2:K:1067:LEU:HD12	2:K:1067:LEU:H	1.76	0.50
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	1.92	0.50
2:L:1475:LEU:HD23	2:L:1476:ASP:N	2.26	0.50
2:L:1881:TYR:CG	2:L:2004:PRO:HG3	2.46	0.50
2:L:845:ASN:HD21	2:L:849:ARG:HH11	1.59	0.50
1:A:1160:VAL:HG23	1:A:1327:ALA:HB2	1.92	0.50
1:A:1168:TRP:HE1	1:A:1173:TYR:HE1	1.58	0.50
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.11	0.50
1:A:1363:MET:HE3	1:A:1368:ALA:HA	1.94	0.50
1:B:636:TYR:HB2	1:B:888:ILE:HD11	1.91	0.50
1:C:1394:PRO:HB3	1:C:1627:PHE:CE2	2.46	0.50
1:C:694:TYR:HD2	1:C:695:TYR:CD1	2.30	0.50
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.92	0.50
1:D:24:MET:HE2	2:J:2043:VAL:HG13	1.92	0.50
1:E:443:LEU:HD12	1:E:443:LEU:H	1.76	0.50
1:E:726:VAL:HG21	1:E:780:ALA:HB3	1.92	0.50
1:C:1390:GLY:O	1:F:1264:MET:HB3	2.11	0.50
1:F:570:TYR:O	1:F:574:ILE:HG12	2.11	0.50
2:G:108:GLU:HA	2:G:111:ARG:HD2	1.93	0.50
2:G:1521:GLU:OE2	2:G:2028:THR:HG22	2.10	0.50
2:G:1722:ALA:HB2	2:G:1812:LEU:HD11	1.93	0.50
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.11	0.50
2:G:474:THR:HB	2:G:476:GLN:HG2	1.92	0.50
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.93	0.50
2:H:1343:PHE:CE2	2:H:1388:PRO:HD2	2.45	0.50
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:227:ILE:HD13	2:H:252:LEU:HD13	1.93	0.50
2:H:289:ILE:HG22	2:H:490:LEU:HD22	1.92	0.50
2:I:1440:THR:O	2:I:1440:THR:HG22	2.10	0.50
2:I:1475:LEU:HD23	2:I:1476:ASP:N	2.26	0.50
2:I:573:VAL:CG2	2:I:804:PRO:HB2	2.41	0.50
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.93	0.50
2:J:1631:ARG:HA	2:J:1686:GLU:HB2	1.93	0.50
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.42	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.42	0.50
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.26	0.50
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.11	0.50
1:E:22:PHE:O	2:K:2006:HIS:HA	2.11	0.50
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.28	0.50
2:K:747:ARG:NH1	2:K:780:SER:O	2.44	0.50
2:L:1662:ARG:HG2	2:L:1686:GLU:HG2	1.94	0.50
2:L:1722:ALA:HB2	2:L:1812:LEU:HD11	1.93	0.50
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.40	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG2	1.93	0.50
2:L:582:LYS:HA	2:L:587:GLN:O	2.11	0.50
2:L:603:VAL:HG22	2:L:810:CYS:SG	2.52	0.50
2:L:832:ILE:HA	2:L:868:LEU:HD21	1.93	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.94	0.50
2:L:979:LEU:HD21	2:L:999:ALA:CB	2.41	0.50
1:A:1402:THR:CG2	1:E:1270:THR:HG21	2.40	0.50
1:A:1702:ARG:CG	1:A:1702:ARG:NH1	2.53	0.50
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.46	0.50
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.93	0.50
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.41	0.50
1:B:1402:THR:CG2	1:D:1270:THR:HG21	2.41	0.50
1:C:1401:LEU:HD22	1:C:1401:LEU:O	2.10	0.50
1:C:1443:LEU:HD11	1:C:1470:ARG:HB3	1.93	0.50
1:C:569:LEU:HD13	1:D:548:VAL:CG2	2.40	0.50
1:D:1041:PRO:HA	1:D:1046:PRO:HA	1.94	0.50
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.92	0.50
1:F:1071:TYR:CD2	1:F:1071:TYR:C	2.84	0.50
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.93	0.50
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.47	0.50
2:G:126:VAL:HG12	2:G:127:ALA:N	2.25	0.50
2:G:1804:GLN:HG2	2:G:1865:LEU:CD2	2.42	0.50
2:G:1881:TYR:CB	2:G:2004:PRO:HG3	2.42	0.50
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:298:ALA:HB1	2:G:304:PHE:HA	1.94	0.50
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.93	0.50
2:H:1227:LYS:HG2	2:H:1228:LEU:N	2.26	0.50
2:H:1348:PHE:O	2:H:1351:VAL:HG12	2.12	0.50
1:B:29:ILE:HD11	2:H:1922:VAL:C	2.31	0.50
2:H:208:LEU:HA	2:H:211:LEU:HD12	1.94	0.50
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.92	0.50
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.59	0.50
2:I:289:ILE:HD12	2:I:472:THR:OG1	2.11	0.50
2:J:116:GLY:O	2:J:561:ARG:NH1	2.44	0.50
2:J:699:ILE:HD12	2:J:699:ILE:N	2.25	0.50
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.94	0.50
2:K:1650:THR:O	2:K:1669:ALA:HA	2.12	0.50
2:L:1130:ILE:HB	2:L:1133:LEU:HD22	1.94	0.50
2:L:1236:LEU:O	2:L:1237:VAL:HG23	2.12	0.50
2:L:1426:VAL:HG12	2:L:1427:MET:HG2	1.93	0.50
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.24	0.50
2:L:613:VAL:N	2:L:614:PRO:CD	2.75	0.50
1:A:444:LEU:HD22	1:A:448:MET:CG	2.42	0.50
1:A:701:ARG:NH1	1:A:1610:ARG:HH21	2.10	0.50
1:A:831:GLU:HG2	1:F:755:GLU:CG	2.41	0.50
1:A:956:ILE:HA	2:G:977:PRO:HA	1.94	0.50
1:A:973:TRP:CD1	1:A:1648:LYS:HD2	2.47	0.50
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.85	0.50
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.92	0.50
1:C:613:PRO:HD3	1:C:628:TYR:CE2	2.47	0.50
1:C:718:SER:HB3	1:C:721:ASP:HB2	1.94	0.50
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.39	0.50
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.46	0.50
1:D:918:LEU:O	1:D:921:GLU:HG3	2.12	0.50
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.94	0.50
1:E:1011:ARG:C	1:E:1011:ARG:HD2	2.32	0.50
1:E:41:THR:HG22	2:K:1689:VAL:HG12	1.94	0.50
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.93	0.50
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.93	0.50
2:G:1662:ARG:HG2	2:G:1686:GLU:HG2	1.91	0.50
2:G:1866:THR:HA	2:G:1869:VAL:CG2	2.41	0.50
2:G:421:PHE:HB3	2:G:844:GLU:OE2	2.11	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:1200:ARG:N	2:H:1200:ARG:HD3	2.24	0.50
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.46	0.50
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.92	0.50
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.94	0.50
2:I:980:LEU:HD21	2:I:986:LEU:HD21	1.93	0.50
2:J:1441:ASP:C	2:J:1443:GLU:N	2.64	0.50
2:J:1555:VAL:HG12	2:J:1555:VAL:O	2.12	0.50
2:J:1804:GLN:HG2	2:J:1865:LEU:CD2	2.40	0.50
2:J:447:ALA:O	2:J:451:ILE:HG13	2.11	0.50
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.46	0.50
2:J:506:VAL:HG22	2:J:506:VAL:O	2.12	0.50
2:J:578:PRO:HG3	2:J:792:LEU:O	2.11	0.50
2:K:1160:PHE:CE1	2:K:1164:ILE:HD11	2.47	0.50
2:K:1291:ARG:HD2	2:K:1297:LYS:HG2	1.93	0.50
2:K:462:ALA:HB3	2:K:481:LEU:O	2.12	0.50
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.92	0.50
2:L:1291:ARG:HD2	2:L:1297:LYS:HG2	1.94	0.50
2:L:1442:TYR:O	2:L:1445:THR:HG22	2.12	0.50
2:L:1382:MET:CB	2:L:1633:ARG:HH11	2.25	0.50
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.41	0.50
2:L:189:ILE:HD13	2:L:259:ALA:HB3	1.92	0.50
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.92	0.50
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.93	0.50
1:A:1535:SER:HB3	1:A:1602:PHE:CD1	2.47	0.50
1:A:689:ARG:NH1	1:A:1339:GLU:OE2	2.45	0.50
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.11	0.50
1:C:1250:LEU:HB2	1:F:1317:GLU:CG	2.41	0.50
1:C:1523:HIS:HB2	1:C:1624:SER:HA	1.94	0.50
1:C:476:ASN:O	1:C:480:VAL:HG23	2.12	0.50
1:C:535:TYR:CG	1:C:610:GLU:N	2.79	0.50
1:D:1493:PHE:HE2	1:D:1509:THR:HG22	1.76	0.50
1:D:432:GLN:O	1:D:436:ILE:HG13	2.12	0.50
1:E:1038:HIS:CE1	1:E:1042:LEU:HG	2.47	0.50
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.46	0.50
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.94	0.50
1:F:1672:GLY:HA3	1:F:1678:LEU:HD23	1.94	0.50
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.94	0.50
2:G:957:LYS:HE2	2:G:1022:ARG:HH22	1.76	0.50
2:G:1223:SER:CB	2:G:1226:ALA:HB3	2.40	0.50
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.93	0.50
2:G:1290:TYR:CG	2:G:1299:VAL:CG1	2.90	0.50
2:G:193:TYR:O	2:G:197:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:486:ILE:O	2:G:490:LEU:HG	2.11	0.50
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.46	0.50
2:H:1316:VAL:HG13	2:H:1348:PHE:HE2	1.76	0.50
2:H:1631:ARG:HA	2:H:1686:GLU:HB2	1.93	0.50
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.26	0.50
2:H:465:LEU:HB2	2:H:479:ARG:HG2	1.92	0.50
2:I:1259:LEU:HB2	2:I:1288:PHE:CD1	2.46	0.50
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.42	0.50
2:I:1728:GLU:O	2:I:1757:ILE:HD11	2.11	0.50
2:J:117:ASN:HA	2:J:561:ARG:HD2	1.92	0.50
2:J:1483:LEU:HD21	2:J:1525:VAL:HG11	1.94	0.50
2:J:1694:PHE:HD2	2:J:1843:ALA:CB	2.24	0.50
2:J:1871:VAL:CG1	2:J:1872:GLU:N	2.75	0.50
2:J:779:GLY:O	2:J:780:SER:CB	2.52	0.50
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.46	0.50
2:K:1265:TYR:CE2	2:K:1267:PRO:HG3	2.46	0.50
2:K:1359:LYS:N	2:K:1360:PRO:CD	2.75	0.50
2:K:356:LEU:HB3	2:K:361:VAL:HG23	1.93	0.50
2:K:455:VAL:HG12	2:K:455:VAL:O	2.12	0.50
2:K:289:ILE:HG21	2:K:493:MET:CE	2.42	0.50
2:K:746:GLY:HA3	2:K:843:TRP:CZ2	2.47	0.50
2:L:1227:LYS:HG2	2:L:1228:LEU:N	2.26	0.50
2:L:1904:VAL:HG22	2:L:1939:LEU:HD22	1.93	0.50
2:L:485:ASP:CB	2:L:488:PRO:CD	2.86	0.50
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.85	0.50
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.12	0.50
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.11	0.50
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.41	0.50
1:C:883:LEU:N	1:C:883:LEU:HD23	2.27	0.50
1:D:619:LYS:HG2	1:D:620:LYS:N	2.24	0.50
1:D:621:ASP:HB3	1:D:625:ASN:HB2	1.94	0.50
1:E:1213:VAL:CG2	1:E:1300:ARG:HH21	2.15	0.50
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.47	0.50
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.94	0.50
1:E:476:ASN:O	1:E:480:VAL:HG23	2.11	0.50
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.41	0.50
1:F:726:VAL:HG21	1:F:780:ALA:HB3	1.94	0.50
2:G:1097:PHE:CD2	2:G:1100:ARG:NH1	2.80	0.50
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.47	0.50
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.11	0.50
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1315:ILE:H	2:H:1315:ILE:HD12	1.77	0.50
2:H:1067:LEU:HB2	3:H:2101:FMN:HM71	1.93	0.50
2:H:796:TRP:CH2	2:H:805:MET:HE1	2.47	0.50
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.42	0.50
2:I:170:TYR:CE1	2:I:510:ALA:HB2	2.46	0.50
2:I:775:VAL:O	2:I:777:VAL:HG23	2.10	0.50
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.94	0.50
2:J:1259:LEU:HB2	2:J:1288:PHE:CE1	2.46	0.50
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.65	0.50
2:J:1767:GLU:CB	2:J:2016:PRO:CG	2.72	0.50
2:K:1766:PHE:CE2	2:K:1869:VAL:HG23	2.46	0.50
2:K:573:VAL:CG2	2:K:804:PRO:HB2	2.41	0.50
2:K:730:ILE:O	2:K:733:ALA:HB3	2.12	0.50
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.39	0.50
2:L:289:ILE:HD12	2:L:472:THR:OG1	2.12	0.50
2:L:505:THR:O	2:L:505:THR:HG22	2.11	0.50
2:L:871:ARG:CZ	2:L:909:ASP:HB3	2.42	0.50
1:A:1592:ALA:O	1:A:1593:ASP:C	2.50	0.50
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.29	0.50
1:A:648:LEU:HD12	1:A:649:THR:H	1.76	0.50
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.32	0.50
1:B:1099:GLU:HA	1:B:1149:LEU:HD23	1.92	0.50
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.39	0.50
1:B:628:TYR:CD1	1:B:629:SER:N	2.71	0.50
1:C:612:ILE:HG23	1:C:628:TYR:CE2	2.46	0.50
1:E:954:ARG:HD3	2:K:977:PRO:CG	2.41	0.50
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.47	0.50
1:F:439:ARG:O	1:F:444:LEU:HD12	2.12	0.50
1:F:621:ASP:HB3	1:F:625:ASN:H	1.77	0.50
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.50
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.12	0.50
2:G:350:MET:HE2	2:G:435:ILE:HD12	1.92	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50
2:H:1845:VAL:HG21	2:H:1856:LEU:HD22	1.92	0.50
2:H:189:ILE:HD13	2:H:259:ALA:HB3	1.93	0.50
2:H:746:GLY:HA3	2:H:843:TRP:CZ2	2.47	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.92	0.50
2:I:179:ILE:HG23	2:I:179:ILE:O	2.11	0.50
2:I:189:ILE:HD13	2:I:259:ALA:HB3	1.92	0.50
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.92	0.50
2:J:129:ILE:HG21	2:J:132:LYS:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1516:GLU:HA	2:J:1521:GLU:O	2.11	0.50
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.93	0.50
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.46	0.50
2:K:949:ARG:HH22	2:K:1052:ASP:CG	2.14	0.50
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.26	0.50
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.50
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.47	0.50
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.11	0.50
2:L:1631:ARG:HA	2:L:1686:GLU:HB2	1.93	0.50
2:L:2052:LYS:HB3	2:L:2074:TRP:CZ2	2.45	0.50
2:L:416:GLN:HA	2:L:419:ILE:HG13	1.92	0.50
1:A:533:SER:CB	1:A:612:ILE:HB	2.35	0.50
1:A:755:GLU:CG	1:F:831:GLU:HG2	2.38	0.50
1:C:1098:GLN:HB2	1:C:1152:LYS:HE2	1.93	0.50
1:F:1159:LEU:HD12	1:F:1327:ALA:HB3	1.93	0.50
1:F:1544:HIS:CG	1:F:1544:HIS:O	2.64	0.50
1:F:859:VAL:HG22	1:F:918:LEU:HB3	1.92	0.50
2:G:1483:LEU:HD21	2:G:1525:VAL:HG11	1.93	0.50
2:G:781:GLY:HA2	2:G:1071:VAL:CG1	2.37	0.50
2:H:1475:LEU:HD23	2:H:1476:ASP:N	2.27	0.50
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.42	0.50
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.92	0.50
2:I:120:HIS:CD2	2:I:137:VAL:HG11	2.47	0.50
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.12	0.50
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.46	0.50
2:I:613:VAL:N	2:I:614:PRO:CD	2.75	0.50
2:I:786:GLU:H	2:I:786:GLU:CD	2.14	0.50
2:J:356:LEU:HB3	2:J:361:VAL:HG23	1.94	0.50
2:J:505:THR:O	2:J:505:THR:HG22	2.12	0.50
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.41	0.50
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.41	0.50
2:K:245:SER:HA	2:K:436:THR:HG21	1.94	0.50
2:K:332:ALA:N	2:L:1627:ASN:HD21	2.09	0.50
2:L:170:TYR:CE1	2:L:510:ALA:HB2	2.47	0.50
2:L:1694:PHE:CD2	2:L:1843:ALA:CA	2.94	0.50
1:A:1068:TYR:O	1:A:1072:ILE:HG13	2.12	0.50
1:A:335:LEU:C	1:A:335:LEU:HD12	2.31	0.50
1:A:612:ILE:HG12	1:A:628:TYR:HD2	1.76	0.50
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.50
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.30	0.50
1:B:1037:ASN:HD21	2:H:1011:GLN:HG2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.41	0.50
1:B:427:ARG:HD2	1:B:490:VAL:HG12	1.94	0.50
1:B:619:LYS:HG2	1:B:620:LYS:N	2.26	0.50
1:C:1402:THR:CG2	1:F:1270:THR:HG21	2.41	0.50
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.12	0.50
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.94	0.50
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.30	0.50
1:D:1580:VAL:HG22	1:D:1585:ILE:O	2.12	0.50
1:D:1638:HIS:ND1	1:D:1639:PRO:HD2	2.27	0.50
1:D:577:LEU:HB2	1:D:579:MET:HG3	1.94	0.50
1:E:14:LEU:HD21	2:K:1844:LEU:HD21	1.93	0.50
2:G:102:LEU:O	2:G:106:LEU:HG	2.12	0.50
2:G:480:GLU:O	2:G:480:GLU:HG2	2.12	0.50
2:G:555:LYS:HB3	2:G:556:PRO:HD3	1.94	0.50
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.93	0.50
2:H:1154:LEU:HD13	2:H:1198:PRO:HB3	1.93	0.50
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.27	0.50
2:H:24:LEU:CD1	2:H:45:ALA:HB1	2.42	0.50
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.77	0.50
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.42	0.50
2:I:911:GLN:HE21	2:I:1065:CYS:H	1.59	0.50
2:I:1468:ARG:NH1	2:I:1468:ARG:CG	2.52	0.50
2:I:174:GLY:H	2:I:517:GLY:CA	2.25	0.50
2:I:743:TRP:CE2	2:I:761:ILE:HD11	2.46	0.50
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.47	0.50
2:I:788:THR:HG21	2:I:810:CYS:SG	2.52	0.50
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.47	0.50
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.94	0.50
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.42	0.50
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.26	0.50
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.40	0.50
2:J:1468:ARG:CG	2:J:1468:ARG:NH1	2.51	0.50
2:J:329:THR:OG1	2:K:1338:ARG:NH1	2.45	0.50
2:J:911:GLN:HE21	2:J:1065:CYS:H	1.59	0.50
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.92	0.50
2:K:170:TYR:CD2	2:K:507:PHE:HB3	2.47	0.50
2:K:617:PHE:HD1	2:K:822:ALA:HA	1.76	0.50
2:K:785:SER:O	2:K:789:TYR:HB2	2.12	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.12	0.50
2:L:290:VAL:HA	2:L:490:LEU:CD1	2.40	0.50
2:L:613:VAL:N	2:L:614:PRO:HD3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1199:LEU:C	1:A:1201:SER:H	2.15	0.49
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.47	0.49
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.46	0.49
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.49
1:C:1251:GLN:HG3	1:F:1321:MET:HE1	1.93	0.49
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.95	0.49
1:C:339:GLN:O	1:C:343:ILE:HG13	2.12	0.49
1:D:833:TRP:CH2	1:D:839:ILE:HD11	2.42	0.49
1:E:1142:LEU:HD12	1:E:1142:LEU:N	2.27	0.49
1:E:1359:VAL:HG12	1:E:1360:GLN:N	2.27	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.46	0.49
1:F:476:ASN:O	1:F:480:VAL:HG23	2.11	0.49
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	2.04	0.49
2:G:1626:GLU:O	2:G:1627:ASN:HB2	2.12	0.49
2:G:290:VAL:HA	2:G:490:LEU:CD1	2.42	0.49
2:G:300:THR:HG22	2:G:302:ASP:H	1.76	0.49
2:G:857:VAL:HG13	2:G:876:TRP:HE1	1.77	0.49
2:H:1091:HIS:O	2:H:1094:HIS:HB2	2.11	0.49
2:H:458:MET:C	2:H:459:LYS:HG3	2.31	0.49
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.11	0.49
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	1.93	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49
2:I:617:PHE:HD1	2:I:822:ALA:HA	1.76	0.49
2:J:1543:TYR:HD2	2:J:1544:LEU:HD23	1.76	0.49
2:J:1896:THR:HG22	2:J:1898:GLN:N	2.22	0.49
2:J:298:ALA:HB1	2:J:304:PHE:HA	1.93	0.49
2:J:676:LEU:HD23	2:J:679:ARG:HH21	1.77	0.49
2:K:1304:PRO:O	2:K:1307:ALA:HB3	2.11	0.49
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.12	0.49
2:K:1631:ARG:HA	2:K:1686:GLU:HB2	1.94	0.49
2:K:208:LEU:HD12	2:K:227:ILE:HD11	1.94	0.49
2:K:376:ARG:HH21	2:L:1339:GLY:HA2	1.77	0.49
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.49
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.20	0.49
1:B:811:ASP:OD1	1:B:811:ASP:N	2.44	0.49
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.31	0.49
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.42	0.49
1:A:1321:MET:HE1	1:E:1251:GLN:HG3	1.93	0.49
1:E:651:GLN:HA	1:E:677:GLY:HA3	1.94	0.49
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.93	0.49
1:F:1547:ARG:HG2	1:F:1604:TYR:CD1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1902:TYR:OH	2:G:1966:ARG:HB2	2.12	0.49
2:G:1871:VAL:HG23	2:G:2003:VAL:HG13	1.94	0.49
2:G:44:GLN:HE21	2:G:48:LEU:HD21	1.76	0.49
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.94	0.49
2:I:1130:ILE:HB	2:I:1133:LEU:HD22	1.94	0.49
2:I:126:VAL:HG12	2:I:127:ALA:N	2.26	0.49
2:I:1402:ASN:O	2:I:1403:ALA:HB2	2.12	0.49
2:I:300:THR:HG22	2:I:302:ASP:H	1.75	0.49
2:I:474:THR:HB	2:I:476:GLN:HG2	1.92	0.49
2:I:44:GLN:HE21	2:I:48:LEU:HD21	1.77	0.49
2:I:930:THR:HG23	2:I:933:GLU:H	1.77	0.49
2:J:1579:ASN:O	2:J:1583:VAL:HG23	2.13	0.49
2:J:1888:PRO:HB3	2:J:1895:PHE:CD1	2.46	0.49
2:J:455:VAL:HG12	2:J:455:VAL:O	2.12	0.49
2:K:1236:LEU:O	2:K:1237:VAL:HG23	2.12	0.49
2:K:1372:LYS:O	2:K:1436:ARG:HG2	2.12	0.49
2:K:1802:ALA:HB1	2:K:1804:GLN:NE2	2.18	0.49
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.42	0.49
2:K:298:ALA:HB1	2:K:304:PHE:HA	1.93	0.49
2:K:731:ALA:HA	2:K:739:ILE:HD12	1.93	0.49
2:L:1543:TYR:HD2	2:L:1544:LEU:HD23	1.77	0.49
2:L:1851:MET:HE1	2:L:2024:LYS:HB3	1.95	0.49
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.25	0.49
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.94	0.49
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.95	0.49
1:A:987:MET:O	1:A:1490:GLY:HA3	2.12	0.49
1:A:408:GLN:NE2	1:A:1609:SER:H	2.10	0.49
1:B:1270:THR:HA	1:D:1386:THR:O	2.12	0.49
1:B:1536:ASP:N	1:B:1602:PHE:HE1	2.09	0.49
1:B:453:ASP:HB2	1:B:454:HIS:HD2	1.77	0.49
1:D:1098:GLN:HB2	1:D:1152:LYS:HE2	1.94	0.49
1:D:1602:PHE:HD2	1:D:1602:PHE:N	2.09	0.49
1:E:1050:TRP:CE3	1:E:1050:TRP:HA	2.48	0.49
1:E:404:ASN:HD21	1:E:1607:TYR:H	1.61	0.49
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.94	0.49
1:E:613:PRO:C	1:E:615:LEU:H	2.15	0.49
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.93	0.49
1:F:1425:LEU:CD2	1:F:1429:ARG:HH21	2.17	0.49
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.42	0.49
2:H:126:VAL:HG12	2:H:127:ALA:N	2.26	0.49
2:H:1603:PRO:HB2	2:H:1644:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.78	0.49
2:H:289:ILE:HD12	2:H:472:THR:OG1	2.12	0.49
2:H:298:ALA:HB1	2:H:304:PHE:HA	1.95	0.49
2:H:595:SER:HB2	2:H:600:VAL:O	2.12	0.49
2:I:1452:VAL:O	2:I:1454:MET:HG3	2.11	0.49
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	1.94	0.49
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.47	0.49
2:I:487:ILE:HB	2:I:488:PRO:CD	2.41	0.49
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.47	0.49
2:I:580:LEU:O	2:I:581:VAL:HG23	2.12	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.61	0.49
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.92	0.49
2:J:1137:ARG:HB3	2:J:1142:ILE:HG23	1.95	0.49
2:J:388:ASN:HD22	2:J:388:ASN:C	2.15	0.49
2:J:381:SER:HB2	2:J:440:HIS:HB2	1.94	0.49
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.93	0.49
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.41	0.49
2:K:1764:MET:HE3	2:K:1865:LEU:CD1	2.42	0.49
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.12	0.49
2:K:250:PHE:O	2:K:315:LEU:HD23	2.13	0.49
2:K:487:ILE:HB	2:K:488:PRO:CD	2.39	0.49
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.49
2:L:957:LYS:HE2	2:L:1022:ARG:HH22	1.78	0.49
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.62	0.49
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.47	0.49
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.47	0.49
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.26	0.49
1:A:1338:GLY:H	1:A:1340:MET:HG3	1.76	0.49
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.13	0.49
1:A:476:ASN:O	1:A:480:VAL:HG23	2.13	0.49
1:A:539:THR:O	1:A:542:GLN:HG2	2.12	0.49
1:A:907:PHE:O	1:A:909:PRO:HD3	2.12	0.49
1:B:1149:LEU:HD12	1:D:1097:LEU:HD13	1.94	0.49
1:B:1359:VAL:HG12	1:B:1360:GLN:N	2.27	0.49
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	1.93	0.49
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.38	0.49
1:C:767:HIS:CE1	1:D:767:HIS:CE1	3.00	0.49
1:D:1378:ILE:HD11	1:D:1642:LEU:HB2	1.93	0.49
1:E:1159:LEU:HD12	1:E:1327:ALA:HB3	1.95	0.49
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.94	0.49
1:F:1041:PRO:HA	1:F:1046:PRO:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1199:LEU:C	1:F:1201:SER:H	2.15	0.49
1:A:374:LEU:HD11	1:F:389:PRO:HD3	1.93	0.49
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.13	0.49
2:G:246:ALA:HB3	2:G:247:PRO:HD3	1.94	0.49
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.49
2:G:342:ASN:HB2	2:G:406:ARG:NH2	2.27	0.49
2:G:608:MET:H	2:G:612:THR:CB	2.24	0.49
2:G:942:MET:HE1	2:G:955:LEU:HB3	1.94	0.49
2:H:1067:LEU:H	2:H:1067:LEU:HD12	1.75	0.49
2:H:1708:LEU:O	2:H:1708:LEU:HD22	2.12	0.49
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.12	0.49
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.28	0.49
2:I:24:LEU:CD1	2:I:45:ALA:HB1	2.42	0.49
2:I:480:GLU:O	2:I:480:GLU:HG2	2.13	0.49
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.26	0.49
2:J:1156:ASP:CB	2:J:1159:SER:H	2.18	0.49
2:J:1359:LYS:N	2:J:1360:PRO:CD	2.75	0.49
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.13	0.49
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.94	0.49
2:J:197:VAL:CG2	2:J:263:ILE:HD11	2.41	0.49
2:J:609:THR:HG23	3:J:2101:FMN:O4	2.12	0.49
2:J:845:ASN:HD21	2:J:849:ARG:HH11	1.59	0.49
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.93	0.49
2:L:1137:ARG:HB3	2:L:1142:ILE:HG23	1.95	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.47	0.49
2:K:327:PRO:N	2:L:1338:ARG:NH2	2.60	0.49
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.49
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.42	0.49
1:A:833:TRP:CH2	1:A:839:ILE:HD11	2.42	0.49
1:B:1270:THR:HG21	1:D:1402:THR:CG2	2.42	0.49
1:B:701:ARG:NH1	1:B:1610:ARG:NH2	2.60	0.49
1:B:335:LEU:HD12	1:B:335:LEU:O	2.12	0.49
1:B:655:ALA:HB2	1:B:742:TYR:HB2	1.95	0.49
1:C:1214:HIS:CD2	1:C:1216:SER:OG	2.61	0.49
1:C:1565:PRO:CG	1:C:1572:TRP:CZ3	2.95	0.49
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.12	0.49
1:D:1078:ILE:HB	1:D:1338:GLY:HA3	1.95	0.49
1:D:339:GLN:O	1:D:343:ILE:HG13	2.12	0.49
1:D:918:LEU:HA	1:D:921:GLU:HG2	1.95	0.49
1:E:1386:THR:HG22	1:E:1387:ASP:N	2.28	0.49
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:470:GLY:O	1:E:474:ILE:HG13	2.13	0.49
1:E:628:TYR:HE1	1:E:630:LYS:HA	1.77	0.49
1:F:1534:GLU:HG2	1:F:1625:PHE:HE1	1.76	0.49
1:F:689:ARG:HH21	1:F:1591:ASN:ND2	2.10	0.49
2:G:1265:TYR:CE2	2:G:1267:PRO:HG3	2.47	0.49
2:G:1346:MET:HG2	2:G:1617:ARG:NH2	2.26	0.49
2:G:1708:LEU:HD22	2:G:1708:LEU:O	2.12	0.49
2:H:1120:ILE:HD11	2:H:1169:TYR:CE1	2.48	0.49
2:H:1426:VAL:HG12	2:H:1427:MET:HG2	1.95	0.49
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.47	0.49
2:H:930:THR:HG23	2:H:933:GLU:H	1.75	0.49
2:I:1285:ILE:O	2:I:1288:PHE:HB3	2.13	0.49
2:I:1291:ARG:HD2	2:I:1297:LYS:HG2	1.95	0.49
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.47	0.49
2:I:1851:MET:SD	2:I:1856:LEU:HA	2.52	0.49
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.42	0.49
2:J:141:TYR:OH	2:J:267:THR:HG23	2.11	0.49
1:D:43:ARG:HH11	2:J:1687:GLN:HE21	1.60	0.49
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.43	0.49
2:J:458:MET:C	2:J:459:LYS:HG3	2.31	0.49
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.47	0.49
2:K:156:SER:HB3	2:K:558:LEU:O	2.13	0.49
1:E:29:ILE:HD11	2:K:1922:VAL:C	2.33	0.49
2:L:1348:PHE:CE1	2:L:1351:VAL:HG11	2.48	0.49
2:L:1402:ASN:O	2:L:1403:ALA:HB2	2.13	0.49
2:L:664:TYR:CD1	2:L:670:MET:HE1	2.47	0.49
2:L:786:GLU:CD	2:L:786:GLU:H	2.14	0.49
1:A:1536:ASP:N	1:A:1602:PHE:HE1	2.09	0.49
1:A:1378:ILE:HD11	1:A:1642:LEU:HB2	1.94	0.49
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.42	0.49
1:B:1535:SER:HB3	1:B:1602:PHE:CD1	2.47	0.49
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.36	0.49
1:C:534:GLN:HA	1:C:610:GLU:O	2.12	0.49
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.47	0.49
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.95	0.49
1:F:1574:LEU:O	1:F:1578:LEU:HG	2.13	0.49
2:G:949:ARG:HH22	2:G:1052:ASP:CG	2.15	0.49
2:G:1316:VAL:HG13	2:G:1348:PHE:CE2	2.47	0.49
2:G:910:PHE:HD2	2:G:912:LYS:H	1.58	0.49
2:H:580:LEU:CD2	2:H:1095:ILE:HG22	2.43	0.49
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:649:GLU:HG3	2:H:650:LYS:HG3	1.94	0.49
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.28	0.49
2:I:1492:LEU:HD22	2:I:1511:GLY:HA3	1.94	0.49
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.34	0.49
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.12	0.49
2:I:712:ARG:O	2:I:738:PRO:HG2	2.12	0.49
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.48	0.49
2:J:276:LEU:HD12	2:J:298:ALA:O	2.12	0.49
2:K:1138:ASP:HB2	2:K:1140:ASN:H	1.77	0.49
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.31	0.49
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.93	0.49
2:L:1933:LEU:O	2:L:1989:LEU:HD11	2.13	0.49
2:L:573:VAL:CG2	2:L:804:PRO:HB2	2.43	0.49
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.43	0.49
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.48	0.49
1:B:541:VAL:HG21	1:B:585:MET:HE1	1.95	0.49
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.43	0.49
1:B:918:LEU:O	1:B:921:GLU:HG3	2.12	0.49
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	1.93	0.49
1:C:1535:SER:HB3	1:C:1602:PHE:CD1	2.48	0.49
1:C:415:TYR:CE2	1:C:1614:THR:HB	2.48	0.49
1:C:453:ASP:HB2	1:C:454:HIS:HD2	1.78	0.49
1:C:565:GLN:HG2	1:C:565:GLN:O	2.11	0.49
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.94	0.49
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.47	0.49
1:D:1535:SER:HB3	1:D:1602:PHE:CD1	2.48	0.49
1:D:613:PRO:C	1:D:615:LEU:H	2.16	0.49
1:E:1052:ASP:HB3	1:E:1055:THR:HG23	1.95	0.49
1:E:1071:TYR:CD2	1:E:1071:TYR:C	2.86	0.49
1:E:991:ASP:HA	1:E:1364:THR:CG2	2.43	0.49
1:A:1414:PRO:HG2	1:E:1473:HIS:CD2	2.48	0.49
1:E:427:ARG:HH21	1:E:518:LYS:HG2	1.77	0.49
1:E:689:ARG:HD2	1:E:1339:GLU:CG	2.42	0.49
1:E:871:PHE:CD1	1:E:871:PHE:N	2.81	0.49
1:F:59:ARG:HD2	2:L:1926:GLN:NE2	2.27	0.49
1:F:689:ARG:NH1	1:F:1339:GLU:OE2	2.45	0.49
1:F:883:LEU:HD23	1:F:883:LEU:N	2.26	0.49
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.42	0.49
1:F:973:TRP:CD1	1:F:1648:LYS:HD2	2.48	0.49
2:G:1142:ILE:HD11	2:G:1209:PRO:HB3	1.93	0.49
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.27	0.49
2:G:1904:VAL:HG22	2:G:1939:LEU:HD22	1.95	0.49
2:G:645:ILE:HD13	2:G:687:ILE:HD11	1.95	0.49
2:H:170:TYR:CD2	2:H:507:PHE:HB3	2.48	0.49
2:H:258:LEU:CD1	2:H:291:VAL:HG13	2.42	0.49
2:H:652:ILE:HG23	2:H:653:PRO:HD2	1.94	0.49
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.12	0.49
2:I:1516:GLU:HA	2:I:1521:GLU:O	2.13	0.49
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.43	0.49
2:I:227:ILE:HD13	2:I:252:LEU:HD13	1.94	0.49
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.25	0.49
2:J:190:TYR:CE1	2:J:201:ILE:HG21	2.48	0.49
2:J:2050:ILE:HG12	2:J:2050:ILE:O	2.13	0.49
2:J:24:LEU:CD1	2:J:45:ALA:HB1	2.42	0.49
2:J:613:VAL:N	2:J:614:PRO:HD3	2.28	0.49
2:J:712:ARG:O	2:J:738:PRO:HG2	2.12	0.49
2:J:792:LEU:O	2:J:792:LEU:HD12	2.12	0.49
2:J:573:VAL:CG2	2:J:804:PRO:HB2	2.42	0.49
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.49
2:K:138:ARG:HB3	2:K:192:THR:HG23	1.94	0.49
2:K:350:MET:CE	2:K:435:ILE:HD12	2.42	0.49
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CD1	2.41	0.49
2:L:792:LEU:O	2:L:792:LEU:HD12	2.13	0.49
1:A:1444:GLN:O	1:A:1447:VAL:HB	2.13	0.49
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.48	0.49
1:B:1378:ILE:HD11	1:B:1642:LEU:HB2	1.94	0.49
1:B:443:LEU:H	1:B:443:LEU:HD12	1.78	0.49
1:D:549:TYR:O	1:D:553:ARG:HB3	2.13	0.49
1:D:667:ALA:O	1:D:671:GLN:HG3	2.12	0.49
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.43	0.49
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.28	0.49
1:E:1504:ARG:NH2	1:E:1545:LEU:O	2.46	0.49
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.50	0.49
1:E:533:SER:OG	1:E:611:THR:HB	2.13	0.49
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.27	0.49
1:F:1098:GLN:HB2	1:F:1152:LYS:HE2	1.94	0.49
1:F:434:ILE:CD1	1:F:490:VAL:HG21	2.40	0.49
1:F:679:LYS:HG2	1:F:708:GLN:CB	2.39	0.49
2:G:190:TYR:HE1	2:G:201:ILE:HG21	1.76	0.49
2:G:607:GLY:HA2	2:G:612:THR:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:980:LEU:HD21	2:G:986:LEU:HD21	1.94	0.49
2:H:1160:PHE:CE1	2:H:1164:ILE:HD11	2.47	0.49
2:H:1359:LYS:N	2:H:1360:PRO:CD	2.76	0.49
2:H:1468:ARG:NH1	2:H:1468:ARG:CB	2.76	0.49
2:H:320:LEU:O	2:H:324:GLN:HG3	2.13	0.49
2:H:505:THR:O	2:H:505:THR:HG22	2.12	0.49
2:H:910:PHE:HD2	2:H:912:LYS:H	1.60	0.49
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.63	0.49
2:I:1146:LEU:O	2:I:1201:GLY:HA2	2.12	0.49
2:I:1248:GLU:HA	2:I:1248:GLU:OE1	2.13	0.49
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.28	0.49
2:I:1708:LEU:HD22	2:I:1708:LEU:O	2.13	0.49
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.42	0.49
2:J:1372:LYS:O	2:J:1436:ARG:HG2	2.13	0.49
2:J:1626:GLU:O	2:J:1627:ASN:HB2	2.13	0.49
2:J:1762:MET:HG2	2:J:1779:LYS:NZ	2.28	0.49
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.12	0.49
2:J:227:ILE:HD13	2:J:252:LEU:HD13	1.93	0.49
2:J:220:GLN:NE2	2:J:324:GLN:HG2	2.28	0.49
2:J:603:VAL:HG22	2:J:810:CYS:SG	2.52	0.49
1:E:1670:HIS:ND1	2:K:1009:ASN:ND2	2.61	0.49
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.94	0.49
2:K:102:LEU:O	2:K:106:LEU:HG	2.12	0.49
1:E:43:ARG:HH11	2:K:1687:GLN:HE21	1.59	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:K:910:PHE:O	2:K:1063:ARG:HD3	2.12	0.49
2:K:979:LEU:CD2	2:K:999:ALA:HB3	2.42	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CG1	2.42	0.49
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.48	0.49
2:L:215:TRP:N	2:L:215:TRP:HE3	2.10	0.49
2:L:613:VAL:H	2:L:614:PRO:HD3	1.77	0.49
1:A:1019:LYS:HB2	1:A:1019:LYS:HE3	1.66	0.49
1:A:1020:PHE:CE2	1:A:1028:MET:HG3	2.47	0.49
1:A:408:GLN:HE22	1:A:1609:SER:N	2.09	0.49
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.13	0.49
1:C:921:GLU:HG3	1:C:922:ILE:H	1.78	0.49
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	1.94	0.49
1:B:1097:LEU:HD13	1:D:1149:LEU:HD12	1.95	0.49
1:D:994:VAL:HG21	1:D:1291:TYR:CD1	2.47	0.49
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.94	0.49
1:E:859:VAL:HG22	1:E:918:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.95	0.49
2:G:1259:LEU:HB2	2:G:1288:PHE:CD1	2.47	0.49
2:G:1464:LEU:HD11	2:G:1468:ARG:HD2	1.94	0.49
2:G:1932:ASP:OD2	2:G:1934:ARG:HD2	2.13	0.49
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.48	0.49
2:G:979:LEU:CD2	2:G:999:ALA:HB3	2.43	0.49
2:H:1007:LEU:N	2:H:1007:LEU:HD12	2.20	0.49
2:H:1622:THR:O	2:H:1626:GLU:HA	2.13	0.49
2:H:1868:GLN:HG2	2:H:1873:ARG:NH2	2.28	0.49
2:H:771:CYS:HB3	2:H:774:ILE:CD1	2.42	0.49
2:I:1175:MET:HA	2:I:1274:ILE:HD11	1.95	0.49
2:I:1543:TYR:HD2	2:I:1544:LEU:HD23	1.77	0.49
2:I:610:PRO:O	2:I:613:VAL:HG12	2.13	0.49
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.42	0.49
2:J:1262:ARG:NH2	2:J:1277:VAL:HG11	2.28	0.49
2:K:38:PRO:CD	2:K:104:LEU:HD11	2.41	0.49
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.28	0.49
2:K:1402:ASN:O	2:K:1403:ALA:HB2	2.13	0.49
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.43	0.49
2:K:1887:ASN:ND2	2:K:1890:ARG:HG3	2.28	0.49
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.45	0.49
2:L:1160:PHE:CE1	2:L:1164:ILE:HD11	2.48	0.49
2:L:1521:GLU:OE2	2:L:2028:THR:HG22	2.12	0.49
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.13	0.49
2:L:298:ALA:HB1	2:L:304:PHE:HA	1.95	0.49
2:L:962:PHE:O	2:L:965:ARG:HB3	2.13	0.49
1:A:1565:PRO:CG	1:A:1572:TRP:CZ3	2.93	0.49
1:A:439:ARG:O	1:A:444:LEU:HD12	2.12	0.49
1:A:443:LEU:H	1:A:443:LEU:HD12	1.77	0.49
1:B:608:LYS:O	1:B:610:GLU:HG2	2.13	0.49
1:B:983:GLN:HB3	1:B:1418:ILE:CD1	2.39	0.49
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.47	0.49
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.13	0.49
1:C:358:PHE:CD2	1:C:358:PHE:C	2.86	0.49
1:C:871:PHE:CD1	1:C:871:PHE:N	2.80	0.49
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.49
1:E:754:ARG:HH21	1:E:762:LYS:HD3	1.78	0.49
1:E:811:ASP:N	1:E:811:ASP:OD1	2.44	0.49
1:F:1160:VAL:HB	1:F:1352:MET:HE1	1.95	0.49
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.12	0.49
1:F:1705:GLN:NE2	1:F:1709:GLY:HA2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:580:LEU:CD2	2:G:1095:ILE:HG22	2.43	0.49
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.48	0.49
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.13	0.49
2:H:80:ILE:HG12	2:H:105:ILE:HG22	1.95	0.49
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.24	0.49
2:H:279:PHE:HB2	2:H:467:ILE:HD12	1.95	0.49
2:H:474:THR:HB	2:H:476:GLN:HG2	1.94	0.49
2:H:506:VAL:HG22	2:H:506:VAL:O	2.12	0.49
2:H:676:LEU:HD23	2:H:679:ARG:HH21	1.77	0.49
2:I:1621:GLU:OE2	2:I:1629:ILE:HG23	2.13	0.49
2:I:73:VAL:HG13	2:I:113:PHE:HD2	1.77	0.49
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.13	0.49
2:J:1622:THR:O	2:J:1626:GLU:HA	2.13	0.49
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.48	0.49
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.95	0.49
2:K:1764:MET:HE1	2:K:1865:LEU:HD12	1.95	0.49
2:K:649:GLU:HG3	2:K:650:LYS:HG3	1.94	0.49
2:L:1103:TYR:O	2:L:1106:LYS:HB2	2.12	0.49
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.28	0.49
2:L:190:TYR:HE1	2:L:201:ILE:HG21	1.77	0.49
2:L:350:MET:CE	2:L:435:ILE:HD12	2.42	0.49
2:L:834:ASP:O	2:L:836:PRO:HD3	2.12	0.49
1:A:1067:LYS:HB3	1:A:1068:TYR:CD1	2.48	0.48
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.12	0.48
1:A:326:ASP:HB3	1:A:333:ARG:NH1	2.22	0.48
1:A:655:ALA:HB2	1:A:742:TYR:HB2	1.95	0.48
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.48	0.48
1:B:1157:ASP:HB3	1:B:1326:ASN:OD1	2.13	0.48
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.94	0.48
1:C:1603:ASP:HB2	1:C:1604:TYR:CD2	2.48	0.48
1:C:621:ASP:HB3	1:C:625:ASN:HB2	1.95	0.48
1:C:929:ARG:O	1:C:933:ILE:HG13	2.12	0.48
1:D:1490:GLY:O	1:D:1509:THR:HB	2.12	0.48
1:D:1560:TYR:CE2	1:D:1589:ASN:HA	2.48	0.48
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.13	0.48
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.48
1:E:1535:SER:HB3	1:E:1602:PHE:CD1	2.47	0.48
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.61	0.48
1:F:565:GLN:HG2	1:F:565:GLN:O	2.11	0.48
1:F:956:ILE:HA	2:L:977:PRO:HA	1.95	0.48
2:G:1175:MET:HE1	2:G:1234:ILE:HG21	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1249:GLY:HA2	2:G:1256:VAL:HG22	1.95	0.48
2:G:1372:LYS:O	2:G:1436:ARG:HG2	2.13	0.48
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.48
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	2.13	0.48
2:G:2052:LYS:N	2:G:2052:LYS:HE2	2.07	0.48
2:G:665:VAL:O	2:G:665:VAL:HG12	2.13	0.48
2:G:703:ASN:O	2:G:707:GLN:HG3	2.13	0.48
2:H:1137:ARG:HB3	2:H:1142:ILE:HG23	1.94	0.48
2:H:1672:LYS:O	2:H:1672:LYS:HG2	2.13	0.48
2:H:1804:GLN:HG2	2:H:1865:LEU:CD2	2.43	0.48
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.42	0.48
2:H:485:ASP:HB2	2:H:488:PRO:HD2	1.93	0.48
2:H:676:LEU:HD23	2:H:679:ARG:NH2	2.28	0.48
2:H:712:ARG:O	2:H:738:PRO:HG2	2.13	0.48
2:I:1468:ARG:NH1	2:I:1468:ARG:CB	2.74	0.48
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.19	0.48
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.13	0.48
2:I:350:MET:CE	2:I:435:ILE:HD12	2.43	0.48
2:I:356:LEU:HA	2:I:356:LEU:HD23	1.66	0.48
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.13	0.48
2:I:827:GLN:H	2:I:827:GLN:CD	2.15	0.48
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.13	0.48
2:J:1346:MET:HE3	2:J:1617:ARG:NH2	2.28	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.12	0.48
2:J:60:THR:HG22	2:J:62:GLU:H	1.78	0.48
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.13	0.48
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.48	0.48
2:J:376:ARG:NH2	2:K:1339:GLY:HA2	2.27	0.48
2:K:1404:VAL:CG2	2:K:1413:VAL:HG22	2.38	0.48
2:K:1464:LEU:HD13	2:K:1464:LEU:C	2.33	0.48
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	2.13	0.48
2:K:712:ARG:O	2:K:738:PRO:HG2	2.13	0.48
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.48	0.48
2:L:1764:MET:HE1	2:L:1865:LEU:HD12	1.95	0.48
2:L:635:TYR:CB	2:L:641:MET:HG3	2.42	0.48
2:L:699:ILE:CD1	2:L:699:ILE:H	2.26	0.48
1:B:1020:PHE:CE2	1:B:1028:MET:HG3	2.48	0.48
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.43	0.48
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.13	0.48
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.94	0.48
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1303:LEU:HD23	1:D:1361:VAL:HB	1.94	0.48
1:E:1586:VAL:CG2	1:E:1617:ILE:HD11	2.43	0.48
1:E:453:ASP:HB2	1:E:454:HIS:HD2	1.78	0.48
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.48	0.48
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.43	0.48
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.95	0.48
1:A:22:PHE:O	2:G:2006:HIS:HA	2.12	0.48
2:G:485:ASP:CB	2:G:488:PRO:CD	2.90	0.48
2:G:827:GLN:H	2:G:827:GLN:CD	2.15	0.48
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.43	0.48
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.95	0.48
2:H:1442:TYR:O	2:H:1445:THR:HG22	2.12	0.48
2:H:1504:TYR:HD2	2:H:1507:VAL:HG11	1.78	0.48
2:H:1694:PHE:CD2	2:H:1843:ALA:CA	2.96	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.39	0.48
2:H:455:VAL:O	2:H:455:VAL:HG12	2.13	0.48
2:I:1115:TYR:OH	2:I:1173:HIS:CD2	2.62	0.48
2:I:1442:TYR:CA	2:I:1445:THR:HG22	2.43	0.48
1:C:29:ILE:HD11	2:I:1922:VAL:C	2.32	0.48
2:I:962:PHE:O	2:I:965:ARG:HB3	2.13	0.48
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.12	0.48
2:J:480:GLU:HG2	2:J:480:GLU:O	2.13	0.48
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.77	0.48
2:J:746:GLY:HA3	2:J:843:TRP:CZ2	2.49	0.48
2:K:1156:ASP:CB	2:K:1159:SER:H	2.19	0.48
2:K:117:ASN:HA	2:K:561:ARG:HD2	1.95	0.48
2:K:1350:ILE:O	2:K:1354:TRP:HB2	2.12	0.48
2:K:1483:LEU:HD21	2:K:1525:VAL:HG11	1.95	0.48
2:K:1762:MET:HG2	2:K:1779:LYS:NZ	2.27	0.48
2:K:189:ILE:HD12	2:K:256:VAL:HG13	1.94	0.48
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.47	0.48
2:K:350:MET:HE2	2:K:435:ILE:HD12	1.96	0.48
2:L:1067:LEU:H	2:L:1067:LEU:HD12	1.78	0.48
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.13	0.48
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	2.12	0.48
1:F:23:ALA:HA	2:L:2007:SER:O	2.13	0.48
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.95	0.48
2:L:610:PRO:O	2:L:613:VAL:HG12	2.13	0.48
1:A:616:HIS:C	1:A:617:LEU:HD23	2.34	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:N	2.28	0.48
1:C:543:ASN:O	1:C:546:ARG:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:872:SER:OG	1:C:874:GLN:HG3	2.14	0.48
1:D:340:LEU:HD22	1:D:351:LEU:HD11	1.95	0.48
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.94	0.48
1:F:1294:ILE:HD11	1:F:1302:CYS:HB3	1.96	0.48
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.42	0.48
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.49	0.48
2:G:1266:HIS:CE1	2:G:1275:ARG:CD	2.90	0.48
2:G:258:LEU:CD1	2:G:291:VAL:HG13	2.43	0.48
2:G:468:PRO:HD3	2:G:479:ARG:HH21	1.76	0.48
2:G:603:VAL:HG22	2:G:810:CYS:SG	2.52	0.48
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.48
2:H:1249:GLY:HA2	2:H:1256:VAL:HG22	1.94	0.48
2:H:1483:LEU:HD21	2:H:1525:VAL:HG11	1.96	0.48
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.36	0.48
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.44	0.48
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.29	0.48
1:C:26:VAL:CG2	2:I:2006:HIS:CE1	2.97	0.48
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.94	0.48
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.26	0.48
2:J:1451:GLU:HG3	2:J:1541:ILE:HD11	1.95	0.48
2:J:731:ALA:HA	2:J:739:ILE:HD12	1.95	0.48
2:K:1227:LYS:HG2	2:K:1228:LEU:N	2.27	0.48
2:K:580:LEU:CD2	2:K:1095:ILE:HG22	2.42	0.48
2:K:690:LEU:HD22	2:K:691:THR:H	1.78	0.48
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.29	0.48
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.42	0.48
1:B:1149:LEU:HB2	1:D:1149:LEU:CB	2.43	0.48
1:C:1078:ILE:HB	1:C:1338:GLY:HA3	1.95	0.48
1:C:1303:LEU:HD23	1:C:1361:VAL:HB	1.96	0.48
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.48
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.46	0.48
1:D:453:ASP:HB2	1:D:454:HIS:HD2	1.77	0.48
1:F:335:LEU:HD12	1:F:335:LEU:O	2.14	0.48
1:F:358:PHE:C	1:F:358:PHE:CD2	2.87	0.48
1:F:409:ASP:CG	1:F:701:ARG:NH1	2.67	0.48
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.46	0.48
2:G:190:TYR:CE1	2:G:201:ILE:HG21	2.48	0.48
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.13	0.48
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.29	0.48
2:H:350:MET:CE	2:H:435:ILE:HD12	2.44	0.48
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:783:GLY:HA2	2:H:815:ARG:HD3	1.95	0.48
2:H:786:GLU:H	2:H:786:GLU:CD	2.17	0.48
2:I:1694:PHE:CD2	2:I:1843:ALA:CA	2.94	0.48
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.43	0.48
2:I:276:LEU:HD12	2:I:298:ALA:O	2.12	0.48
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.95	0.48
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.13	0.48
2:J:120:HIS:CD2	2:J:137:VAL:CG1	2.97	0.48
2:J:1468:ARG:CB	2:J:1468:ARG:NH1	2.75	0.48
2:J:134:ILE:HG12	2:J:545:ILE:CD1	2.43	0.48
2:K:1764:MET:HE3	2:K:1865:LEU:HD12	1.95	0.48
2:K:1904:VAL:HG22	2:K:1939:LEU:HD22	1.95	0.48
2:K:875:PHE:HE2	2:K:906:LEU:CD2	2.26	0.48
2:L:1141:LYS:CE	2:L:1143:SER:HB2	2.44	0.48
2:L:1471:GLU:H	2:L:1471:GLU:HG3	1.44	0.48
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.78	0.48
2:L:193:TYR:O	2:L:197:VAL:HG23	2.13	0.48
2:L:741:LEU:O	2:L:741:LEU:HG	2.13	0.48
1:A:1493:PHE:HE2	1:A:1509:THR:HG22	1.77	0.48
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.41	0.48
1:A:788:ARG:HB2	1:A:790:TYR:CD2	2.47	0.48
1:B:1001:GLU:C	1:B:1002:ILE:HD12	2.34	0.48
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.48
1:B:339:GLN:O	1:B:343:ILE:HG13	2.13	0.48
1:B:743:VAL:O	1:B:745:PRO:HD3	2.14	0.48
1:B:833:TRP:CH2	1:B:839:ILE:HD11	2.45	0.48
1:C:1157:ASP:O	1:C:1159:LEU:HD12	2.13	0.48
1:C:1493:PHE:HE2	1:C:1509:THR:HG22	1.77	0.48
1:C:573:VAL:O	1:C:577:LEU:HG	2.13	0.48
1:C:621:ASP:HB3	1:C:625:ASN:H	1.78	0.48
1:D:718:SER:HB3	1:D:721:ASP:HB2	1.96	0.48
1:E:1273:ILE:HG13	1:E:1273:ILE:O	2.13	0.48
1:E:1603:ASP:HB2	1:E:1604:TYR:CD2	2.48	0.48
1:E:427:ARG:NH1	1:E:492:ILE:CG1	2.76	0.48
1:E:524:LYS:O	1:E:527:ALA:N	2.47	0.48
1:E:948:HIS:O	1:E:952:TYR:HD2	1.97	0.48
1:F:1001:GLU:O	1:F:1002:ILE:HD12	2.13	0.48
1:F:1179:ILE:O	1:F:1183:VAL:HG23	2.13	0.48
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.14	0.48
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.25	0.48
1:F:435:GLN:HG2	1:F:701:ARG:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:811:ASP:OD1	1:F:811:ASP:N	2.47	0.48
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.14	0.48
2:G:1266:HIS:HE1	2:G:1275:ARG:CD	2.17	0.48
2:G:1316:VAL:HG13	2:G:1348:PHE:HE2	1.78	0.48
2:G:1371:LEU:HG	2:G:1600:ALA:HB2	1.95	0.48
2:G:220:GLN:NE2	2:G:324:GLN:HG2	2.28	0.48
2:G:916:GLY:C	2:G:929:MET:HE2	2.33	0.48
2:H:911:GLN:HE21	2:H:1065:CYS:H	1.59	0.48
2:G:376:ARG:HH21	2:H:1339:GLY:HA2	1.78	0.48
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.13	0.48
2:H:378:ILE:HG23	2:H:391:VAL:HG13	1.96	0.48
2:H:416:GLN:HA	2:H:419:ILE:HG13	1.94	0.48
2:I:102:LEU:O	2:I:106:LEU:HG	2.13	0.48
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.95	0.48
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.96	0.48
2:I:1722:ALA:HB2	2:I:1812:LEU:HD11	1.95	0.48
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.95	0.48
2:I:416:GLN:HA	2:I:419:ILE:HG13	1.96	0.48
2:I:665:VAL:HG12	2:I:665:VAL:O	2.13	0.48
2:I:699:ILE:N	2:I:699:ILE:HD12	2.28	0.48
2:J:108:GLU:HA	2:J:111:ARG:HD2	1.94	0.48
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.94	0.48
2:J:1259:LEU:HB2	2:J:1288:PHE:CD1	2.49	0.48
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.28	0.48
2:J:872:GLY:HA2	2:J:909:ASP:O	2.14	0.48
2:J:942:MET:CE	2:J:955:LEU:HB3	2.44	0.48
2:K:1067:LEU:HB2	3:K:2101:FMN:C7M	2.44	0.48
2:K:1141:LYS:CE	2:K:1143:SER:HB2	2.43	0.48
2:K:211:LEU:HB3	2:K:316:PHE:CZ	2.49	0.48
2:L:1636:HIS:O	2:L:1681:GLY:HA3	2.14	0.48
2:L:930:THR:HG23	2:L:933:GLU:H	1.76	0.48
2:L:938:MET:HE2	2:L:959:THR:HA	1.95	0.48
1:B:541:VAL:HG22	1:E:576:ALA:HB3	1.95	0.48
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.96	0.48
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.96	0.48
1:C:902:ASN:O	1:C:904:GLY:N	2.44	0.48
1:D:574:ILE:HG23	1:D:579:MET:HB2	1.95	0.48
1:D:811:ASP:N	1:D:811:ASP:OD1	2.46	0.48
1:E:1534:GLU:HG2	1:E:1625:PHE:HE1	1.79	0.48
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.48	0.48
1:C:1268:SER:CB	1:F:1389:ILE:HG13	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:636:TYR:HB2	1:F:888:ILE:HD11	1.94	0.48
2:G:101:VAL:O	2:G:105:ILE:HG12	2.12	0.48
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.29	0.48
2:G:356:LEU:HB3	2:G:361:VAL:HG23	1.95	0.48
2:G:401:LEU:HD22	2:G:405:LEU:HG	1.95	0.48
2:G:487:ILE:HB	2:G:488:PRO:CD	2.39	0.48
2:H:1048:TRP:CD1	2:H:1049:GLN:HG2	2.48	0.48
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.28	0.48
2:H:949:ARG:HH22	2:H:1052:ASP:CG	2.17	0.48
2:H:1371:LEU:O	2:H:1590:ILE:HD11	2.13	0.48
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.29	0.48
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	2.12	0.48
2:H:197:VAL:HA	2:H:262:MET:HE1	1.95	0.48
2:H:467:ILE:CG2	2:H:468:PRO:HD2	2.39	0.48
2:H:170:TYR:CE1	2:H:510:ALA:HB2	2.49	0.48
2:I:1048:TRP:CE2	2:I:1049:GLN:HG2	2.48	0.48
2:I:949:ARG:HH22	2:I:1052:ASP:CG	2.17	0.48
2:I:156:SER:HB3	2:I:558:LEU:O	2.13	0.48
2:I:298:ALA:HB1	2:I:304:PHE:HA	1.94	0.48
2:I:521:VAL:O	2:I:526:VAL:HG21	2.13	0.48
2:I:821:GLU:HG2	2:I:821:GLU:H	1.43	0.48
2:I:888:ARG:HD3	2:I:891:ARG:NH1	2.28	0.48
2:J:1160:PHE:CE1	2:J:1164:ILE:HD11	2.48	0.48
2:J:1175:MET:HA	2:J:1274:ILE:HD11	1.96	0.48
2:J:1404:VAL:CG2	2:J:1413:VAL:HG22	2.37	0.48
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.95	0.48
2:J:665:VAL:HG12	2:J:665:VAL:O	2.14	0.48
2:J:786:GLU:CD	2:J:786:GLU:H	2.17	0.48
2:K:1464:LEU:HD11	2:K:1468:ARG:HD2	1.95	0.48
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.96	0.48
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.43	0.48
2:L:590:VAL:CG2	2:L:1091:HIS:CD2	2.97	0.48
2:L:1265:TYR:CE2	2:L:1267:PRO:HG3	2.49	0.48
2:L:1372:LYS:O	2:L:1436:ARG:HG2	2.14	0.48
2:L:1451:GLU:HG3	2:L:1541:ILE:HD11	1.95	0.48
2:L:1650:THR:O	2:L:1669:ALA:HA	2.13	0.48
2:L:220:GLN:NE2	2:L:324:GLN:HG2	2.28	0.48
2:L:480:GLU:O	2:L:480:GLU:HG2	2.13	0.48
1:A:40:ARG:HH21	1:A:74:VAL:CG2	2.20	0.48
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.94	0.48
1:A:874:GLN:HG2	1:A:874:GLN:H	1.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1050:TRP:HA	1:B:1050:TRP:CE3	2.49	0.48
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.13	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:H	1.79	0.48
1:C:843:VAL:O	1:C:843:VAL:HG22	2.13	0.48
1:C:869:ARG:O	1:C:903:GLY:HA3	2.13	0.48
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.44	0.48
1:B:1251:GLN:HG3	1:D:1321:MET:HE1	1.95	0.48
1:D:1672:GLY:HA3	1:D:1678:LEU:HD23	1.96	0.48
1:D:1685:ALA:HB1	1:D:1686:PRO:CD	2.44	0.48
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.14	0.48
1:E:1381:MET:HE3	1:E:1403:THR:HB	1.96	0.48
1:E:694:TYR:HD2	1:E:695:TYR:CD1	2.32	0.48
1:E:843:VAL:HG22	1:E:843:VAL:O	2.12	0.48
1:E:950:ALA:HA	1:E:953:ARG:CZ	2.43	0.48
1:F:537:ASN:O	1:F:541:VAL:HG23	2.14	0.48
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.14	0.48
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.19	0.48
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.48	0.48
2:H:1723:ASP:OD1	2:H:1735:ILE:HG13	2.14	0.48
2:H:271:GLU:HG2	2:H:301:TRP:NE1	2.29	0.48
2:H:27:THR:HG22	2:H:32:GLU:CD	2.34	0.48
2:H:485:ASP:CB	2:H:488:PRO:CD	2.87	0.48
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.95	0.48
2:H:452:LEU:HD21	2:H:488:PRO:HA	1.96	0.48
2:I:1156:ASP:HB2	2:I:1159:SER:N	2.19	0.48
2:I:1483:LEU:CD2	2:I:1525:VAL:HG11	2.44	0.48
2:J:1285:ILE:O	2:J:1288:PHE:HB3	2.13	0.48
2:J:246:ALA:HB3	2:J:247:PRO:HD3	1.95	0.48
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.48	0.48
2:J:73:VAL:HG13	2:J:113:PHE:HD2	1.77	0.48
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.43	0.48
2:L:1220:ARG:HA	2:L:1229:VAL:O	2.13	0.48
2:L:1456:LEU:HD23	2:L:1457:HIS:N	2.28	0.48
2:L:1871:VAL:HG23	2:L:2003:VAL:HG13	1.96	0.48
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.96	0.48
2:L:458:MET:C	2:L:459:LYS:HG3	2.34	0.48
2:L:24:LEU:CD1	2:L:45:ALA:HB1	2.43	0.48
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.96	0.48
2:L:467:ILE:CG2	2:L:468:PRO:HD2	2.43	0.48
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.14	0.48
1:A:1212:TYR:CD2	1:A:1371:MET:HG2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.28	0.48
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.49	0.48
1:B:1574:LEU:O	1:B:1578:LEU:HG	2.14	0.48
1:C:1580:VAL:HG22	1:C:1585:ILE:O	2.13	0.48
1:C:754:ARG:HH21	1:C:762:LYS:HD3	1.78	0.48
1:D:1160:VAL:HG23	1:D:1327:ALA:HB2	1.94	0.48
1:D:869:ARG:O	1:D:903:GLY:HA3	2.14	0.48
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.48
1:F:1164:ILE:CD1	1:F:1355:GLN:HG3	2.44	0.48
1:F:36:LEU:CD2	1:F:44:ILE:HD11	2.41	0.48
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.95	0.48
2:G:1475:LEU:HD23	2:G:1476:ASP:N	2.27	0.48
2:G:1896:THR:CG2	2:G:1897:GLU:N	2.76	0.48
2:G:1977:ARG:HD2	2:G:1978:LYS:HE3	1.96	0.48
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.48	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.79	0.48
2:H:1661:GLY:HA3	2:H:1827:VAL:O	2.14	0.48
2:H:1972:ILE:HG13	2:H:1972:ILE:H	1.38	0.48
2:J:485:ASP:CB	2:J:488:PRO:CD	2.90	0.48
2:J:485:ASP:HB2	2:J:488:PRO:HD2	1.95	0.48
2:K:474:THR:HB	2:K:476:GLN:HG2	1.96	0.48
2:K:674:ILE:HD13	2:K:705:TYR:HE2	1.74	0.48
2:K:783:GLY:HA2	2:K:815:ARG:HD3	1.96	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:K:938:MET:CE	2:K:959:THR:HA	2.44	0.48
1:E:956:ILE:HA	2:K:977:PRO:HA	1.95	0.48
2:L:1299:VAL:CG2	2:L:1301:PHE:CE2	2.90	0.48
2:L:356:LEU:HB3	2:L:361:VAL:HG23	1.95	0.48
2:L:455:VAL:HG12	2:L:455:VAL:O	2.14	0.48
2:L:884:PHE:CE2	2:L:1039:GLU:HA	2.47	0.48
1:A:617:LEU:N	1:A:617:LEU:HD23	2.29	0.48
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.95	0.48
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.13	0.48
1:B:1389:ILE:HG13	1:D:1268:SER:CB	2.13	0.48
1:B:47:ILE:HB	2:H:1694:PHE:HD1	1.78	0.48
1:C:1270:THR:HG21	1:F:1402:THR:CG2	2.44	0.48
1:C:427:ARG:NH1	1:C:492:ILE:HG13	2.29	0.48
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.41	0.48
1:D:1067:LYS:HB3	1:D:1068:TYR:CD1	2.48	0.48
1:D:1249:ILE:HD12	1:D:1250:LEU:N	2.28	0.48
1:B:1390:GLY:O	1:D:1264:MET:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1610:ARG:HH11	1:D:1610:ARG:CG	1.94	0.48
1:E:1098:GLN:HB2	1:E:1152:LYS:HE2	1.94	0.48
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.48
1:E:1638:HIS:CG	1:E:1639:PRO:HD2	2.49	0.48
1:E:1685:ALA:HB1	1:E:1686:PRO:CD	2.44	0.48
1:E:444:LEU:HD22	1:E:448:MET:CG	2.44	0.48
1:E:655:ALA:CB	1:E:742:TYR:HB2	2.43	0.48
1:E:943:VAL:HG23	2:K:1539:PRO:HG3	1.96	0.48
1:F:1160:VAL:HG23	1:F:1327:ALA:HB2	1.95	0.48
1:F:987:MET:O	1:F:1490:GLY:HA3	2.14	0.48
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.49	0.48
1:F:768:ARG:HA	1:F:772:THR:OG1	2.14	0.48
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.95	0.48
2:G:895:LEU:HD13	2:G:1034:LEU:HB3	1.96	0.48
2:G:1402:ASN:O	2:G:1403:ALA:HB2	2.14	0.48
2:G:1896:THR:HG22	2:G:1898:GLN:N	2.17	0.48
2:G:268:LEU:HD12	2:G:275:LEU:CD1	2.44	0.48
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.96	0.48
2:G:676:LEU:HD23	2:G:679:ARG:HH21	1.78	0.48
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.49	0.48
2:H:1404:VAL:CG2	2:H:1413:VAL:HG22	2.38	0.48
2:H:1492:LEU:HD22	2:H:1511:GLY:HA3	1.95	0.48
2:H:190:TYR:CE1	2:H:201:ILE:HG21	2.48	0.48
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.13	0.48
2:H:787:ASP:O	2:H:790:PRO:HD2	2.13	0.48
2:I:1048:TRP:CD1	2:I:1049:GLN:HG2	2.49	0.48
2:I:129:ILE:HG12	2:I:131:ALA:HB3	1.96	0.48
2:I:350:MET:HG3	2:I:435:ILE:HB	1.96	0.48
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.96	0.48
2:J:884:PHE:CE2	2:J:1039:GLU:HA	2.47	0.48
2:J:73:VAL:HA	2:J:113:PHE:HE2	1.78	0.48
2:J:1348:PHE:CE1	2:J:1351:VAL:HG11	2.49	0.48
2:J:1672:LYS:O	2:J:1672:LYS:HG2	2.14	0.48
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.14	0.48
2:J:215:TRP:N	2:J:215:TRP:CE3	2.82	0.48
2:J:699:ILE:HD12	2:J:699:ILE:H	1.79	0.48
2:J:723:ALA:O	2:J:726:GLN:HB2	2.13	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:1504:TYR:HD2	2:K:1507:VAL:HG11	1.79	0.48
2:K:1621:GLU:OE2	2:K:1629:ILE:HG23	2.13	0.48
2:K:205:ALA:O	2:K:209:GLN:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1115:TYR:HB3	2:L:1267:PRO:CA	2.44	0.48
2:L:1359:LYS:N	2:L:1360:PRO:CD	2.77	0.48
2:L:1483:LEU:HD21	2:L:1525:VAL:HG11	1.95	0.48
1:F:942:VAL:O	2:L:1536:HIS:HB2	2.13	0.48
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.49	0.48
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.78	0.48
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.95	0.48
2:L:781:GLY:HA2	2:L:1071:VAL:CG1	2.39	0.48
1:A:689:ARG:NH2	1:A:1591:ASN:HD21	2.12	0.48
1:A:871:PHE:CD1	1:A:871:PHE:N	2.80	0.48
1:B:28:TRP:CZ2	1:B:53:LEU:HD22	2.49	0.48
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.96	0.48
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.49	0.48
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.43	0.48
1:D:1544:HIS:O	1:D:1544:HIS:CG	2.67	0.48
1:E:1160:VAL:HG23	1:E:1327:ALA:HB2	1.96	0.48
1:E:1303:LEU:HD23	1:E:1361:VAL:HB	1.96	0.48
1:E:1338:GLY:H	1:E:1340:MET:HG3	1.79	0.48
1:E:743:VAL:O	1:E:745:PRO:HD3	2.14	0.48
1:F:1574:LEU:CD1	1:F:1622:VAL:HG11	2.43	0.48
2:G:1403:ALA:HB2	2:G:1447:GLN:HA	1.96	0.48
2:G:1468:ARG:NH1	2:G:1468:ARG:CB	2.75	0.48
2:G:1694:PHE:CD2	2:G:1843:ALA:CA	2.96	0.48
2:G:765:TYR:CB	2:G:805:MET:HE3	2.41	0.48
2:H:1103:TYR:O	2:H:1106:LYS:HB2	2.14	0.48
2:H:106:LEU:HD11	2:H:143:GLY:O	2.14	0.48
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.95	0.48
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.49	0.48
2:H:73:VAL:HG13	2:H:113:PHE:HD2	1.78	0.48
2:I:1451:GLU:HG3	2:I:1541:ILE:HD11	1.96	0.48
2:I:271:GLU:HG2	2:I:301:TRP:NE1	2.29	0.48
2:J:1483:LEU:CD2	2:J:1525:VAL:HG11	2.44	0.48
2:J:1603:PRO:HB2	2:J:1644:LEU:HD21	1.94	0.48
2:J:1690:THR:HG22	2:J:1691:ALA:N	2.29	0.48
2:J:1881:TYR:HB2	2:J:2004:PRO:HG3	1.95	0.48
2:J:2052:LYS:HB3	2:J:2074:TRP:CZ2	2.49	0.48
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.28	0.48
2:J:289:ILE:HD12	2:J:472:THR:OG1	2.13	0.48
2:J:580:LEU:CD2	2:J:1095:ILE:HG22	2.44	0.48
2:J:613:VAL:N	2:J:614:PRO:CD	2.76	0.48
2:J:781:GLY:HA2	2:J:1071:VAL:CG1	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.96	0.48
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.48	0.48
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.34	0.48
2:L:182:TYR:CD1	2:L:183:PHE:N	2.82	0.48
2:L:1812:LEU:HD21	2:L:1857:VAL:HG11	1.96	0.48
2:L:276:LEU:HD12	2:L:298:ALA:O	2.13	0.48
2:L:731:ALA:HA	2:L:739:ILE:HD12	1.95	0.48
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.48
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.95	0.48
1:A:619:LYS:HG2	1:A:620:LYS:N	2.28	0.47
1:B:1129:ILE:HA	1:B:1139:THR:O	2.14	0.47
1:B:613:PRO:C	1:B:615:LEU:H	2.17	0.47
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.47	0.47
1:D:335:LEU:HD12	1:D:335:LEU:O	2.14	0.47
1:D:694:TYR:HD2	1:D:695:TYR:CD1	2.32	0.47
1:E:1287:LEU:HA	1:E:1304:VAL:HG11	1.96	0.47
1:E:1365:ALA:O	1:E:1368:ALA:HB3	2.14	0.47
1:E:408:GLN:HE22	1:E:1609:SER:H	1.62	0.47
1:E:617:LEU:N	1:E:617:LEU:HD23	2.28	0.47
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.14	0.47
1:F:1705:GLN:HE21	1:F:1709:GLY:HA2	1.78	0.47
1:F:28:TRP:CZ2	1:F:53:LEU:HD22	2.48	0.47
2:G:119:VAL:HA	2:G:122:ILE:HG22	1.95	0.47
2:G:1351:VAL:HG21	2:G:1583:VAL:O	2.14	0.47
2:G:276:LEU:HD12	2:G:298:ALA:O	2.14	0.47
2:G:455:VAL:HG12	2:G:455:VAL:O	2.14	0.47
2:G:505:THR:HG22	2:G:505:THR:O	2.14	0.47
2:G:868:LEU:O	2:G:870:THR:HG23	2.14	0.47
2:H:401:LEU:HD22	2:H:405:LEU:HG	1.96	0.47
2:H:884:PHE:CE2	2:H:1039:GLU:HA	2.47	0.47
2:I:1728:GLU:O	2:I:1757:ILE:CD1	2.63	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.44	0.47
2:I:1871:VAL:HG21	2:I:2004:PRO:HD3	1.96	0.47
1:C:15:VAL:HG11	2:I:2022:LEU:CD2	2.44	0.47
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.47
2:J:179:ILE:HG12	2:J:182:TYR:HB3	1.95	0.47
2:J:192:THR:O	2:J:194:PRO:HD3	2.14	0.47
2:J:1871:VAL:HG23	2:J:2003:VAL:HG13	1.96	0.47
2:J:676:LEU:HD23	2:J:679:ARG:NH2	2.28	0.47
2:K:1316:VAL:HG13	2:K:1348:PHE:CE2	2.49	0.47
2:K:1492:LEU:HD22	2:K:1511:GLY:HA3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:276:LEU:HD12	2:K:298:ALA:O	2.14	0.47
2:K:116:GLY:O	2:K:561:ARG:NH1	2.47	0.47
2:K:676:LEU:HD23	2:K:679:ARG:HH21	1.79	0.47
2:K:980:LEU:HD21	2:K:986:LEU:HD21	1.95	0.47
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.95	0.47
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.49	0.47
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.94	0.47
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.96	0.47
1:C:1363:MET:HE3	1:C:1368:ALA:HA	1.95	0.47
1:C:1467:LEU:O	1:C:1471:THR:HG23	2.14	0.47
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.32	0.47
1:C:811:ASP:OD1	1:C:811:ASP:N	2.47	0.47
1:C:828:TRP:NE1	1:C:838:THR:HA	2.29	0.47
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.42	0.47
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	1.96	0.47
1:E:1321:MET:HB3	1:E:1321:MET:HE2	1.82	0.47
1:B:586:GLN:C	1:E:538:ARG:NH2	2.65	0.47
1:F:1386:THR:HG22	1:F:1387:ASP:N	2.30	0.47
1:F:449:GLN:HG3	1:F:474:ILE:HD13	1.95	0.47
2:G:1404:VAL:CG2	2:G:1413:VAL:HG22	2.40	0.47
2:G:416:GLN:HA	2:G:419:ILE:HG13	1.95	0.47
2:G:600:VAL:HG13	2:G:601:PRO:N	2.29	0.47
2:H:820:LYS:HB3	2:H:1080:ASP:O	2.14	0.47
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.96	0.47
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.28	0.47
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.49	0.47
2:H:193:TYR:O	2:H:197:VAL:HG23	2.14	0.47
2:I:1426:VAL:HG12	2:I:1427:MET:HG2	1.96	0.47
2:I:1555:VAL:HG12	2:I:1555:VAL:O	2.14	0.47
2:I:1579:ASN:O	2:I:1583:VAL:HG23	2.14	0.47
2:I:1812:LEU:HD21	2:I:1857:VAL:HG11	1.96	0.47
2:I:208:LEU:HA	2:I:211:LEU:HD12	1.94	0.47
2:J:1405:ILE:HG22	2:J:1445:THR:OG1	2.14	0.47
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.13	0.47
2:J:1977:ARG:CD	2:J:1978:LYS:HE3	2.45	0.47
2:J:36:LEU:HD23	2:J:36:LEU:HA	1.74	0.47
2:J:474:THR:HB	2:J:476:GLN:HG2	1.95	0.47
2:J:44:GLN:HE21	2:J:48:LEU:HD21	1.79	0.47
2:K:1007:LEU:N	2:K:1007:LEU:HD12	2.23	0.47
2:K:1662:ARG:HG2	2:K:1686:GLU:HG2	1.97	0.47
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:283:THR:HG23	2:K:470:TYR:O	2.13	0.47
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.49	0.47
2:L:1353:GLY:CA	2:L:1397:THR:HG21	2.42	0.47
2:L:1767:GLU:HB2	2:L:2016:PRO:CG	2.42	0.47
2:L:190:TYR:CE1	2:L:201:ILE:HG21	2.49	0.47
2:L:783:GLY:HA2	2:L:815:ARG:HD3	1.96	0.47
1:A:1050:TRP:HA	1:A:1050:TRP:CE3	2.49	0.47
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.14	0.47
1:B:1591:ASN:C	1:B:1593:ASP:H	2.18	0.47
1:B:1586:VAL:CG2	1:B:1617:ILE:HD11	2.44	0.47
1:C:623:PHE:HD2	1:C:623:PHE:N	2.13	0.47
1:D:613:PRO:HG2	1:D:616:HIS:HB3	1.95	0.47
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.15	0.47
1:E:1703:VAL:HG22	1:E:1712:LYS:C	2.35	0.47
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.47
1:F:1592:ALA:O	1:F:1593:ASP:C	2.53	0.47
1:F:439:ARG:HA	1:F:705:ARG:HG2	1.97	0.47
1:F:655:ALA:HB2	1:F:742:TYR:HB2	1.97	0.47
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.97	0.47
2:G:1061:VAL:HG11	2:G:1066:ILE:HD11	1.95	0.47
2:G:1262:ARG:NH2	2:G:1277:VAL:HG11	2.29	0.47
2:G:1603:PRO:HB2	2:G:1644:LEU:HD21	1.96	0.47
2:G:452:LEU:HD21	2:G:488:PRO:HA	1.96	0.47
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.49	0.47
2:H:1199:THR:HB	2:H:1202:MET:HB3	1.96	0.47
2:H:1265:TYR:CE2	2:H:1267:PRO:HG3	2.49	0.47
2:H:1451:GLU:HG3	2:H:1541:ILE:HD11	1.97	0.47
2:H:1579:ASN:O	2:H:1583:VAL:HG23	2.14	0.47
2:H:1948:MET:HE2	2:H:1948:MET:HA	1.96	0.47
2:H:47:GLN:HG3	2:I:23:PRO:CG	2.44	0.47
2:H:117:ASN:HA	2:H:561:ARG:CD	2.44	0.47
2:I:942:MET:HG2	2:I:1029:PRO:HG2	1.96	0.47
2:I:1199:THR:HB	2:I:1202:MET:HB3	1.96	0.47
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.15	0.47
2:I:1261:PHE:HA	2:I:1284:ARG:NH1	2.30	0.47
2:I:129:ILE:HG21	2:I:132:LYS:HG3	1.95	0.47
2:I:356:LEU:HB3	2:I:361:VAL:HG23	1.95	0.47
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.44	0.47
2:J:126:VAL:HG12	2:J:127:ALA:N	2.29	0.47
1:D:41:THR:HA	2:J:1689:VAL:HB	1.96	0.47
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.49	0.47
2:J:827:GLN:H	2:J:827:GLN:CD	2.17	0.47
2:J:859:SER:CB	2:J:863:GLU:HG3	2.44	0.47
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.13	0.47
2:K:1245:THR:HG23	2:K:1260:THR:OG1	2.14	0.47
2:K:1579:ASN:O	2:K:1583:VAL:HG23	2.14	0.47
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.96	0.47
2:K:388:ASN:HD22	2:K:388:ASN:C	2.17	0.47
2:K:401:LEU:HD22	2:K:405:LEU:HG	1.96	0.47
2:K:610:PRO:O	2:K:613:VAL:HG12	2.15	0.47
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.96	0.47
2:K:930:THR:HG23	2:K:933:GLU:H	1.79	0.47
2:L:1348:PHE:O	2:L:1351:VAL:HG12	2.14	0.47
2:L:665:VAL:O	2:L:665:VAL:HG12	2.14	0.47
2:L:747:ARG:HD3	2:L:1071:VAL:HG11	1.96	0.47
1:A:1692:GLN:NE2	1:E:1388:LYS:HD3	2.29	0.47
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.50	0.47
1:A:358:PHE:CD2	1:A:358:PHE:C	2.87	0.47
1:A:651:GLN:HA	1:A:677:GLY:HA3	1.96	0.47
1:C:973:TRP:CD1	1:C:1648:LYS:HD2	2.50	0.47
1:C:27:ARG:HD3	2:I:2042:ASN:O	2.13	0.47
1:C:655:ALA:HB2	1:C:742:TYR:HB2	1.97	0.47
1:C:959:PRO:CD	2:I:974:GLU:HG2	2.44	0.47
1:D:72:THR:O	1:D:73:SER:HB3	2.14	0.47
1:D:872:SER:OG	1:D:874:GLN:HG3	2.14	0.47
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	1.95	0.47
1:E:326:ASP:HB3	1:E:333:ARG:NH1	2.24	0.47
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.96	0.47
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.41	0.47
2:G:1348:PHE:CE1	2:G:1351:VAL:HG11	2.50	0.47
2:G:182:TYR:CD1	2:G:183:PHE:N	2.82	0.47
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.47	0.47
2:H:1189:THR:O	2:H:1191:PRO:HD3	2.14	0.47
2:H:1507:VAL:O	2:H:1531:GLU:HA	2.14	0.47
2:H:1722:ALA:HB2	2:H:1812:LEU:HD11	1.94	0.47
2:H:1925:MET:HB3	2:H:1925:MET:HE2	1.71	0.47
2:H:855:ILE:HD13	2:H:856:THR:N	2.23	0.47
2:H:857:VAL:CG1	2:H:876:TRP:CD1	2.97	0.47
2:I:1009:ASN:HD22	2:I:1010:ALA:N	2.12	0.47
2:I:1189:THR:O	2:I:1191:PRO:HD3	2.13	0.47
2:I:1483:LEU:HD21	2:I:1525:VAL:HG11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.50	0.47
2:J:118:ASP:OD2	2:J:559:PHE:HB2	2.14	0.47
2:J:1335:PHE:HE1	2:J:1629:ILE:CD1	2.26	0.47
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.47
2:J:659:THR:HA	2:J:689:GLY:O	2.14	0.47
2:K:1175:MET:HE3	2:K:1192:LEU:HD11	1.97	0.47
2:K:126:VAL:HG12	2:K:127:ALA:N	2.29	0.47
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.43	0.47
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.58	0.47
2:K:1588:ASN:OD1	2:K:1589:PRO:HD2	2.15	0.47
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.79	0.47
2:K:314:LEU:O	2:K:318:ILE:HG13	2.14	0.47
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.49	0.47
2:K:600:VAL:CG1	2:K:601:PRO:HD2	2.42	0.47
2:L:912:LYS:NZ	2:L:1044:LYS:O	2.47	0.47
2:L:1120:ILE:CD1	2:L:1169:TYR:CE1	2.97	0.47
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.05	0.47
2:L:580:LEU:O	2:L:581:VAL:HG23	2.13	0.47
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.49	0.47
2:L:827:GLN:H	2:L:827:GLN:CD	2.15	0.47
1:A:743:VAL:O	1:A:745:PRO:HD3	2.15	0.47
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.50	0.47
1:B:15:VAL:HG11	2:H:2022:LEU:CD2	2.45	0.47
1:B:628:TYR:C	1:B:628:TYR:CD1	2.88	0.47
1:B:648:LEU:HD12	1:B:649:THR:N	2.29	0.47
1:B:72:THR:O	1:B:73:SER:HB3	2.14	0.47
1:B:829:TYR:OH	1:B:896:PRO:HD2	2.15	0.47
1:C:414:TYR:CD2	1:C:414:TYR:C	2.88	0.47
1:C:427:ARG:O	1:C:430:VAL:HB	2.15	0.47
1:C:683:THR:HB	1:C:714:PHE:CB	2.38	0.47
1:C:788:ARG:HB2	1:C:790:TYR:CD2	2.50	0.47
1:D:358:PHE:CD2	1:D:358:PHE:C	2.87	0.47
1:D:40:ARG:HH21	1:D:74:VAL:CG2	2.20	0.47
1:D:701:ARG:HH11	1:D:1610:ARG:NH2	2.12	0.47
1:E:1199:LEU:C	1:E:1201:SER:H	2.17	0.47
1:A:1270:THR:HG21	1:E:1402:THR:HG21	1.97	0.47
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.49	0.47
1:E:553:ARG:HH21	1:E:567:ASN:HD21	1.60	0.47
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.80	0.47
1:F:983:GLN:O	1:F:1418:ILE:HD11	2.13	0.47
1:F:1565:PRO:CG	1:F:1572:TRP:CZ3	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1622:VAL:HG13	1:F:1622:VAL:O	2.13	0.47
1:A:548:VAL:CG2	1:F:569:LEU:HD13	2.42	0.47
1:F:623:PHE:HD2	1:F:623:PHE:N	2.12	0.47
2:G:747:ARG:HD3	2:G:1071:VAL:HG11	1.96	0.47
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.15	0.47
2:G:1348:PHE:O	2:G:1351:VAL:HG12	2.14	0.47
2:G:24:LEU:CD1	2:G:45:ALA:HB1	2.44	0.47
2:G:506:VAL:HG22	2:G:506:VAL:O	2.15	0.47
2:G:544:ALA:O	2:G:554:TYR:HB3	2.14	0.47
2:G:674:ILE:HB	2:G:675:PRO:HD3	1.96	0.47
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.32	0.47
2:H:215:TRP:N	2:H:215:TRP:HE3	2.12	0.47
2:H:805:MET:HB3	2:H:805:MET:HE2	1.83	0.47
2:H:868:LEU:HD13	2:H:1068:GLN:HG3	1.95	0.47
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.66	0.47
2:I:1382:MET:CB	2:I:1633:ARG:HH11	2.28	0.47
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.49	0.47
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.44	0.47
2:I:1863:ARG:HB2	2:I:2017:PHE:CE1	2.49	0.47
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.47
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.96	0.47
2:I:1947:LYS:HG3	2:I:1948:MET:HE2	1.96	0.47
2:I:1871:VAL:CG2	2:I:2004:PRO:HD3	2.44	0.47
2:J:1048:TRP:CD1	2:J:1049:GLN:HG2	2.49	0.47
2:J:1694:PHE:CD2	2:J:1843:ALA:CA	2.95	0.47
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.36	0.47
2:K:129:ILE:HG21	2:K:132:LYS:HG3	1.95	0.47
2:K:1475:LEU:HA	2:K:1526:ALA:HB2	1.97	0.47
2:K:1543:TYR:HD2	2:K:1544:LEU:HD23	1.78	0.47
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.97	0.47
2:K:652:ILE:CG2	2:K:656:ARG:HB2	2.44	0.47
2:K:938:MET:HE2	2:K:959:THR:HA	1.95	0.47
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	1.96	0.47
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.63	0.47
2:L:555:LYS:HB3	2:L:556:PRO:HD3	1.96	0.47
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.96	0.47
1:A:1249:ILE:HD12	1:A:1250:LEU:N	2.30	0.47
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.39	0.47
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.14	0.47
1:B:557:ARG:HH11	1:E:558:LEU:HD23	1.80	0.47
1:C:326:ASP:HB3	1:C:333:ARG:NH1	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:335:LEU:HD13	1:E:342:ILE:HG22	1.97	0.47
1:C:667:ALA:O	1:C:671:GLN:HG3	2.14	0.47
1:D:1491:ASN:HD22	1:D:1491:ASN:N	2.12	0.47
1:E:1386:THR:HG22	1:E:1387:ASP:H	1.80	0.47
1:E:358:PHE:C	1:E:358:PHE:CD2	2.87	0.47
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.47
1:E:621:ASP:HB3	1:E:625:ASN:H	1.79	0.47
1:E:655:ALA:HB2	1:E:742:TYR:HB2	1.97	0.47
1:E:768:ARG:HA	1:E:772:THR:OG1	2.14	0.47
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.38	0.47
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.95	0.47
1:F:453:ASP:HB2	1:F:454:HIS:HD2	1.79	0.47
1:F:427:ARG:NH1	1:F:492:ILE:HG13	2.28	0.47
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.40	0.47
2:G:1238:GLY:O	2:G:1239:ASP:OD1	2.33	0.47
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.45	0.47
2:G:2062:THR:HG22	2:G:2064:SER:N	2.30	0.47
2:G:208:LEU:HD12	2:G:227:ILE:HD11	1.96	0.47
2:H:582:LYS:HA	2:H:587:GLN:O	2.14	0.47
2:H:674:ILE:HB	2:H:675:PRO:HD3	1.97	0.47
2:H:731:ALA:HA	2:H:739:ILE:HD12	1.97	0.47
2:I:1622:THR:O	2:I:1626:GLU:HA	2.14	0.47
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.14	0.47
2:I:421:PHE:C	2:I:423:GLN:H	2.17	0.47
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.28	0.47
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.47
2:I:915:PHE:CG	2:I:915:PHE:O	2.68	0.47
2:J:580:LEU:HD12	2:J:1103:TYR:CD2	2.49	0.47
2:J:1441:ASP:C	2:J:1443:GLU:H	2.18	0.47
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.44	0.47
2:J:1722:ALA:HB2	2:J:1812:LEU:HD11	1.95	0.47
2:J:1818:PHE:HE2	2:J:1822:ARG:NH1	2.13	0.47
2:J:2053:GLU:HG3	2:J:2053:GLU:H	1.44	0.47
2:J:205:ALA:O	2:J:209:GLN:HG3	2.14	0.47
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.49	0.47
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.97	0.47
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.44	0.47
2:L:1266:HIS:N	2:L:1266:HIS:CD2	2.83	0.47
2:L:1285:ILE:O	2:L:1288:PHE:HB3	2.15	0.47
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.14	0.47
2:L:1442:TYR:CA	2:L:1445:THR:HG22	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.96	0.47
2:L:350:MET:HE2	2:L:435:ILE:HD12	1.97	0.47
2:L:595:SER:CB	2:L:602:PRO:HG3	2.30	0.47
2:L:930:THR:HG22	2:L:933:GLU:H	1.79	0.47
1:A:1544:HIS:O	1:A:1544:HIS:CG	2.67	0.47
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.24	0.47
1:B:1560:TYR:CE2	1:B:1589:ASN:HA	2.50	0.47
1:B:943:VAL:HG23	2:H:1539:PRO:HG3	1.95	0.47
1:C:983:GLN:O	1:C:1418:ILE:HD11	2.15	0.47
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.23	0.47
1:E:744:VAL:HG13	1:E:746:PHE:CE1	2.50	0.47
1:E:999:LEU:HD11	1:E:1575:ASN:CB	2.45	0.47
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	2.15	0.47
1:F:628:TYR:CD1	1:F:629:SER:N	2.75	0.47
2:G:159:PHE:CE1	2:G:268:LEU:HD11	2.50	0.47
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.50	0.47
2:H:1896:THR:CG2	2:H:1897:GLU:N	2.77	0.47
2:H:205:ALA:O	2:H:209:GLN:HG3	2.14	0.47
2:H:220:GLN:NE2	2:H:324:GLN:HG2	2.30	0.47
2:H:465:LEU:HD23	2:H:465:LEU:HA	1.73	0.47
2:I:1067:LEU:HD12	2:I:1067:LEU:H	1.80	0.47
2:I:1249:GLY:HA2	2:I:1256:VAL:HG22	1.97	0.47
2:J:1245:THR:HG23	2:J:1260:THR:OG1	2.15	0.47
2:J:1662:ARG:HG2	2:J:1686:GLU:HG2	1.96	0.47
2:J:1977:ARG:HD2	2:J:1978:LYS:HE3	1.95	0.47
2:J:612:THR:CG2	2:J:629:GLU:O	2.62	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.66	0.47
2:J:740:ILE:N	2:J:740:ILE:HD12	2.30	0.47
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.65	0.47
2:K:1097:PHE:CD2	2:K:1100:ARG:NH1	2.82	0.47
2:K:1199:THR:HB	2:K:1202:MET:HB3	1.96	0.47
2:K:1249:GLY:HA2	2:K:1256:VAL:HG22	1.95	0.47
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.15	0.47
2:K:246:ALA:HB3	2:K:247:PRO:HD3	1.97	0.47
2:K:665:VAL:O	2:K:665:VAL:HG12	2.15	0.47
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.29	0.47
2:L:1238:GLY:O	2:L:1239:ASP:OD1	2.32	0.47
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.72	0.47
2:L:271:GLU:HG2	2:L:301:TRP:NE1	2.30	0.47
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.45	0.47
1:A:1164:ILE:HD13	1:A:1355:GLN:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1287:LEU:HA	1:A:1304:VAL:HG11	1.97	0.47
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.43	0.47
1:A:541:VAL:O	1:A:545:LEU:HG	2.14	0.47
1:A:744:VAL:HG13	1:A:746:PHE:CE1	2.50	0.47
1:B:1522:PHE:HE2	1:B:1535:SER:HA	1.80	0.47
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.83	0.47
1:B:623:PHE:N	1:B:623:PHE:HD2	2.11	0.47
1:B:929:ARG:O	1:B:933:ILE:HG13	2.15	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:C:1475:GLU:HB3	1:C:1479:ARG:NH2	2.30	0.47
1:C:458:GLU:CD	1:C:458:GLU:H	2.18	0.47
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.97	0.47
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.45	0.47
1:D:1149:LEU:HD23	1:D:1149:LEU:HA	1.74	0.47
1:A:1386:THR:HB	1:E:1269:SER:O	2.14	0.47
1:E:1432:ILE:HD11	1:E:1481:GLN:CB	2.45	0.47
1:E:14:LEU:HD21	2:K:1844:LEU:CD2	2.44	0.47
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.50	0.47
1:F:1394:PRO:HB3	1:F:1627:PHE:CE2	2.50	0.47
1:F:1603:ASP:HB2	1:F:1604:TYR:CD2	2.49	0.47
1:F:447:PHE:CE1	1:F:451:HIS:NE2	2.83	0.47
1:F:543:ASN:O	1:F:546:ARG:HB2	2.15	0.47
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.96	0.47
2:G:1335:PHE:CE1	2:G:1629:ILE:CD1	2.96	0.47
2:G:1886:VAL:CG1	2:G:1900:LEU:HD11	2.45	0.47
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.49	0.47
2:G:609:THR:CB	2:G:610:PRO:HD3	2.45	0.47
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.97	0.47
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.96	0.47
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.15	0.47
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.95	0.47
2:H:356:LEU:HD23	2:H:356:LEU:HA	1.67	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.44	0.47
2:I:1115:TYR:CZ	2:I:1174:ALA:HB2	2.50	0.47
2:I:2050:ILE:HG12	2:I:2050:ILE:O	2.14	0.47
2:I:613:VAL:H	2:I:614:PRO:HD3	1.78	0.47
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.47
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.15	0.47
2:J:401:LEU:HD22	2:J:405:LEU:HG	1.96	0.47
2:J:652:ILE:HG23	2:J:653:PRO:HD2	1.97	0.47
2:J:664:TYR:CD1	2:J:670:MET:HE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1103:TYR:O	2:K:1106:LYS:HB2	2.15	0.47
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.47
2:K:158:LEU:HD12	2:K:558:LEU:HD23	1.96	0.47
2:K:1622:THR:O	2:K:1626:GLU:HA	2.14	0.47
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.38	0.47
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.97	0.47
2:L:73:VAL:HA	2:L:113:PHE:HE2	1.80	0.47
2:L:1504:TYR:HD2	2:L:1507:VAL:HG11	1.79	0.47
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.44	0.47
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.50	0.47
2:L:787:ASP:O	2:L:790:PRO:HD2	2.15	0.47
2:L:938:MET:CE	2:L:959:THR:HA	2.45	0.47
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.15	0.47
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.50	0.47
1:A:340:LEU:HD22	1:A:351:LEU:HD11	1.97	0.47
1:A:414:TYR:O	1:A:418:ILE:HG13	2.15	0.47
1:B:1386:THR:HG22	1:B:1387:ASP:N	2.30	0.47
1:B:389:PRO:HD3	1:E:374:LEU:HD11	1.96	0.47
1:D:1220:ASN:HB3	1:D:1273:ILE:HG22	1.97	0.47
1:D:1212:TYR:CD2	1:D:1371:MET:HG2	2.50	0.47
1:B:1264:MET:HB3	1:D:1390:GLY:O	2.15	0.47
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.15	0.47
1:D:1574:LEU:O	1:D:1578:LEU:HG	2.15	0.47
1:D:36:LEU:CD2	1:D:44:ILE:HD11	2.44	0.47
1:D:655:ALA:O	1:D:680:VAL:HA	2.15	0.47
1:D:712:VAL:HG13	1:D:713:PRO:HD2	1.97	0.47
1:E:1359:VAL:CG1	1:E:1360:GLN:N	2.78	0.47
1:F:1050:TRP:CE3	1:F:1050:TRP:HA	2.49	0.47
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.50	0.47
1:F:1586:VAL:CG2	1:F:1617:ILE:HD11	2.45	0.47
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.45	0.47
1:F:875:GLU:O	1:F:878:PHE:HB3	2.15	0.47
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.88	0.47
2:G:1093:ASP:O	2:G:1097:PHE:CD1	2.67	0.47
2:G:1483:LEU:CD2	2:G:1525:VAL:HG11	2.45	0.47
2:G:1868:GLN:HG2	2:G:1873:ARG:NH2	2.29	0.47
2:G:1977:ARG:CD	2:G:1978:LYS:HE3	2.45	0.47
2:G:613:VAL:N	2:G:614:PRO:CD	2.78	0.47
2:G:699:ILE:CD1	2:G:699:ILE:H	2.28	0.47
2:G:759:GLN:N	2:G:760:PRO:CD	2.78	0.47
2:H:129:ILE:HG12	2:H:131:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.49	0.47
2:H:179:ILE:HG12	2:H:182:TYR:HB3	1.95	0.47
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.15	0.47
2:H:859:SER:CB	2:H:863:GLU:HG3	2.45	0.47
2:I:1093:ASP:O	2:I:1097:PHE:HB2	2.15	0.47
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.97	0.47
2:I:1305:LEU:HD11	2:I:1365:LYS:CD	2.37	0.47
2:J:1093:ASP:O	2:J:1097:PHE:HB2	2.15	0.47
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.50	0.47
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.38	0.47
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.80	0.47
2:J:27:THR:HG22	2:J:32:GLU:CD	2.35	0.47
2:K:911:GLN:HE21	2:K:1065:CYS:H	1.62	0.47
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.95	0.47
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.97	0.47
2:K:1468:ARG:NH1	2:K:1468:ARG:CB	2.75	0.47
2:K:179:ILE:HG12	2:K:182:TYR:HB3	1.96	0.47
2:K:662:LEU:HD22	2:K:673:GLN:OE1	2.15	0.47
2:L:106:LEU:HD11	2:L:143:GLY:O	2.15	0.47
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.62	0.47
2:L:1593:SER:HG	2:L:1596:PHE:HB2	1.80	0.47
2:L:1863:ARG:HB2	2:L:2017:PHE:HE1	1.80	0.47
2:L:2038:LYS:HA	2:L:2038:LYS:HD3	1.73	0.47
2:L:676:LEU:HD23	2:L:679:ARG:HH21	1.80	0.47
1:A:1473:HIS:C	1:A:1473:HIS:ND1	2.68	0.47
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.50	0.47
1:A:29:ILE:HD11	2:G:1922:VAL:CA	2.45	0.47
1:A:449:GLN:HG3	1:A:474:ILE:HD13	1.97	0.47
1:A:453:ASP:HB2	1:A:454:HIS:HD2	1.80	0.47
1:C:1149:LEU:HD12	1:F:1097:LEU:CD1	2.44	0.47
1:C:1592:ALA:O	1:C:1593:ASP:C	2.53	0.47
1:C:555:GLN:HG2	1:C:557:ARG:NH2	2.29	0.47
1:D:1457:GLU:HG3	1:D:1457:GLU:H	1.42	0.47
1:D:470:GLY:O	1:D:474:ILE:HG13	2.15	0.47
1:D:541:VAL:O	1:D:545:LEU:HG	2.14	0.47
1:D:621:ASP:HB3	1:D:625:ASN:H	1.79	0.47
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.97	0.47
1:E:994:VAL:HG21	1:E:1291:TYR:CD1	2.50	0.47
1:E:349:MET:O	1:E:349:MET:HG3	2.15	0.47
1:E:918:LEU:HA	1:E:921:GLU:HG2	1.97	0.47
1:F:1493:PHE:HE2	1:F:1509:THR:HG22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:871:PHE:CD1	1:F:871:PHE:N	2.83	0.47
1:F:902:ASN:O	1:F:904:GLY:N	2.44	0.47
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.97	0.47
2:G:1661:GLY:HA3	2:G:1827:VAL:O	2.15	0.47
2:G:342:ASN:CB	2:G:406:ARG:NH2	2.77	0.47
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.97	0.47
2:G:610:PRO:O	2:G:613:VAL:HG12	2.15	0.47
2:G:676:LEU:HD23	2:G:679:ARG:NH2	2.30	0.47
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.15	0.47
2:G:80:ILE:HG12	2:G:105:ILE:HG22	1.97	0.47
2:H:73:VAL:HA	2:H:113:PHE:HE2	1.80	0.47
2:H:1146:LEU:O	2:H:1201:GLY:HA2	2.15	0.47
2:H:1224:GLN:HG3	2:H:1578:GLU:OE2	2.15	0.47
2:H:1305:LEU:HD23	2:H:1366:ILE:CD1	2.43	0.47
2:H:1346:MET:HG2	2:H:1617:ARG:NH2	2.30	0.47
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.15	0.47
2:H:37:VAL:HG11	2:H:42:HIS:HA	1.97	0.47
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.96	0.47
2:H:699:ILE:H	2:H:699:ILE:CD1	2.28	0.47
2:H:792:LEU:O	2:H:792:LEU:HD12	2.14	0.47
2:I:193:TYR:O	2:I:197:VAL:HG23	2.15	0.47
2:I:274:GLU:O	2:I:278:ARG:HG2	2.15	0.47
2:I:489:GLU:HG2	2:I:492:ARG:CZ	2.45	0.47
2:I:796:TRP:CH2	2:I:805:MET:HE1	2.49	0.47
2:J:1276:GLU:HB3	2:J:1278:MET:HE2	1.97	0.47
2:J:1305:LEU:HD23	2:J:1366:ILE:CG1	2.44	0.47
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.49	0.47
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.28	0.47
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.97	0.47
2:J:544:ALA:O	2:J:554:TYR:HB3	2.15	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.14	0.47
2:K:1507:VAL:O	2:K:1531:GLU:HA	2.14	0.47
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.15	0.47
2:K:197:VAL:CG2	2:K:263:ILE:HD11	2.44	0.47
2:K:356:LEU:HD23	2:K:356:LEU:HA	1.71	0.47
2:K:544:ALA:O	2:K:554:TYR:HB3	2.15	0.47
2:K:615:TRP:CE3	2:K:647:LYS:HB3	2.50	0.47
2:K:834:ASP:O	2:K:836:PRO:HD3	2.15	0.47
2:L:1048:TRP:CE2	2:L:1049:GLN:HG2	2.50	0.47
2:L:949:ARG:HH22	2:L:1052:ASP:CG	2.18	0.47
2:L:1555:VAL:O	2:L:1555:VAL:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.98	0.47
2:L:388:ASN:HD22	2:L:389:PHE:N	2.13	0.47
2:L:474:THR:HB	2:L:476:GLN:HG2	1.96	0.47
2:L:544:ALA:O	2:L:554:TYR:HB3	2.15	0.47
2:L:979:LEU:CD2	2:L:999:ALA:HB3	2.45	0.47
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.97	0.47
1:A:36:LEU:O	1:A:76:ARG:NH2	2.46	0.47
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.33	0.47
1:B:1359:VAL:CG1	1:B:1360:GLN:N	2.78	0.47
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.47
1:B:427:ARG:O	1:B:430:VAL:HB	2.15	0.47
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.44	0.47
1:B:902:ASN:O	1:B:904:GLY:N	2.47	0.47
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.97	0.47
1:C:432:GLN:O	1:C:436:ILE:HG13	2.15	0.47
1:C:430:VAL:HG11	1:C:490:VAL:HG11	1.95	0.47
1:D:443:LEU:HD12	1:D:443:LEU:H	1.79	0.47
1:D:28:TRP:CZ2	1:D:53:LEU:HD22	2.50	0.47
1:E:1209:PHE:CZ	1:E:1301:VAL:HG21	2.50	0.47
1:E:447:PHE:HA	1:E:1550:GLY:O	2.15	0.47
1:B:378:GLU:OE1	1:E:718:SER:HA	2.14	0.47
1:E:72:THR:O	1:E:73:SER:HB3	2.15	0.47
1:F:1359:VAL:HG12	1:F:1360:GLN:N	2.30	0.47
1:E:1143:ARG:HH21	1:F:356:LYS:NZ	2.12	0.47
2:G:1048:TRP:CD1	2:G:1049:GLN:HG2	2.50	0.47
2:G:1137:ARG:HB3	2:G:1142:ILE:HG23	1.96	0.47
2:G:1266:HIS:N	2:G:1266:HIS:CD2	2.83	0.47
2:G:179:ILE:HG12	2:G:182:TYR:HB3	1.97	0.47
2:G:276:LEU:HD13	2:G:466:VAL:HG21	1.96	0.47
2:G:595:SER:CB	2:G:602:PRO:HG3	2.31	0.47
2:H:747:ARG:HD3	2:H:1071:VAL:HG11	1.97	0.47
2:H:1361:ILE:HD11	2:H:1433:PHE:CD2	2.50	0.47
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.15	0.47
2:I:1262:ARG:NH2	2:I:1277:VAL:HG11	2.29	0.47
2:I:179:ILE:HG12	2:I:182:TYR:HB3	1.97	0.47
2:I:699:ILE:H	2:I:699:ILE:HD12	1.80	0.47
2:J:106:LEU:HD11	2:J:143:GLY:O	2.15	0.47
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.35	0.47
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.44	0.47
2:J:690:LEU:HD22	2:J:691:THR:H	1.80	0.47
2:J:703:ASN:O	2:J:707:GLN:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1091:HIS:O	2:K:1094:HIS:HB2	2.15	0.47
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.49	0.47
2:K:1335:PHE:N	2:K:1335:PHE:CD1	2.83	0.47
2:K:1722:ALA:HB2	2:K:1812:LEU:HD11	1.97	0.47
2:K:192:THR:O	2:K:194:PRO:HD3	2.15	0.47
2:K:468:PRO:HB3	2:K:477:ASP:OD2	2.14	0.47
2:K:604:MET:HG3	2:K:627:HIS:O	2.15	0.47
2:K:605:VAL:HG13	2:K:816:MET:HG3	1.96	0.47
2:K:884:PHE:CE2	2:K:1039:GLU:HA	2.50	0.47
2:L:1305:LEU:CD1	2:L:1305:LEU:H	2.25	0.47
2:L:645:ILE:HD13	2:L:687:ILE:HD11	1.95	0.47
1:A:1432:ILE:HD11	1:A:1481:GLN:CB	2.45	0.46
1:A:999:LEU:HD11	1:A:1575:ASN:CB	2.46	0.46
1:A:470:GLY:O	1:A:474:ILE:HG13	2.14	0.46
1:A:613:PRO:HD3	1:A:628:TYR:CE2	2.50	0.46
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.97	0.46
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.15	0.46
1:B:995:VAL:HG13	1:B:1375:ILE:HG23	1.97	0.46
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.43	0.46
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.97	0.46
1:C:1359:VAL:HG12	1:C:1360:GLN:N	2.30	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.49	0.46
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.15	0.46
1:D:995:VAL:CG1	1:D:1375:ILE:HG23	2.45	0.46
1:E:1213:VAL:HG13	1:E:1217:GLU:OE1	2.15	0.46
1:E:1078:ILE:HB	1:E:1338:GLY:HA3	1.96	0.46
1:E:1457:GLU:HG3	1:E:1457:GLU:H	1.41	0.46
1:E:539:THR:O	1:E:542:GLN:HG2	2.15	0.46
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.49	0.46
1:F:326:ASP:HB3	1:F:333:ARG:NH1	2.24	0.46
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.50	0.46
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.15	0.46
1:F:855:ALA:CA	1:F:919:ARG:HH21	2.13	0.46
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.51	0.46
2:G:1851:MET:HE1	2:G:2024:LYS:HB3	1.97	0.46
2:G:271:GLU:HG2	2:G:301:TRP:NE1	2.29	0.46
2:G:485:ASP:HB2	2:G:488:PRO:HD2	1.96	0.46
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.97	0.46
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.45	0.46
2:H:1160:PHE:O	2:H:1164:ILE:HG13	2.14	0.46
2:H:1261:PHE:HA	2:H:1284:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:487:ILE:HB	2:H:488:PRO:CD	2.40	0.46
2:H:664:TYR:CD1	2:H:670:MET:HE1	2.50	0.46
2:I:1350:ILE:HD13	2:I:1350:ILE:HA	1.73	0.46
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.15	0.46
2:I:159:PHE:CZ	2:I:275:LEU:HD21	2.50	0.46
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.44	0.46
2:J:1207:THR:O	2:J:1215:THR:HA	2.15	0.46
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.79	0.46
2:J:1462:GLN:O	2:J:1466:VAL:HG23	2.15	0.46
2:J:1812:LEU:HD21	2:J:1857:VAL:HG11	1.97	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:604:MET:HG3	2:J:627:HIS:O	2.15	0.46
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.50	0.46
2:J:875:PHE:HE2	2:J:906:LEU:CD2	2.27	0.46
2:K:1406:ASN:HB3	2:K:1411:LYS:HG3	1.96	0.46
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.45	0.46
2:L:102:LEU:O	2:L:106:LEU:HG	2.15	0.46
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	1.97	0.46
2:L:2050:ILE:O	2:L:2050:ILE:HG12	2.14	0.46
1:A:1052:ASP:HB3	1:A:1055:THR:HG23	1.96	0.46
1:A:1553:VAL:HG22	1:A:1604:TYR:O	2.15	0.46
1:A:533:SER:HB3	1:A:907:PHE:CE2	2.51	0.46
1:A:965:TYR:CZ	1:A:1199:LEU:CD2	2.98	0.46
1:B:1159:LEU:HD12	1:B:1327:ALA:HB3	1.96	0.46
1:B:1493:PHE:HE2	1:B:1509:THR:HG22	1.80	0.46
1:C:994:VAL:HG21	1:C:1291:TYR:CD1	2.50	0.46
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.35	0.46
1:D:1565:PRO:CG	1:D:1572:TRP:CZ3	2.95	0.46
1:D:653:LYS:HD3	1:D:742:TYR:CE2	2.49	0.46
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.96	0.46
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.98	0.46
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.41	0.46
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.97	0.46
1:F:1129:ILE:HA	1:F:1139:THR:O	2.15	0.46
1:F:1381:MET:HG2	1:F:1382:THR:N	2.29	0.46
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.98	0.46
2:G:106:LEU:HD11	2:G:143:GLY:O	2.15	0.46
2:G:1519:THR:OG1	2:G:1521:GLU:HG2	2.14	0.46
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.45	0.46
2:G:1762:MET:HG2	2:G:1779:LYS:NZ	2.29	0.46
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.46
2:H:1427:MET:O	2:H:1427:MET:HG3	2.15	0.46
2:H:1745:LEU:HB3	2:H:1799:LEU:HD22	1.96	0.46
2:H:1863:ARG:HB2	2:H:2017:PHE:HE1	1.80	0.46
2:H:1904:VAL:HG22	2:H:1939:LEU:HD22	1.97	0.46
2:H:740:ILE:H	2:H:740:ILE:HD12	1.80	0.46
2:I:1156:ASP:CB	2:I:1159:SER:H	2.18	0.46
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.51	0.46
2:I:783:GLY:HA2	2:I:815:ARG:HD3	1.95	0.46
2:J:1305:LEU:CD1	2:J:1305:LEU:H	2.28	0.46
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.98	0.46
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.16	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.12	0.46
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.70	0.46
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.14	0.46
2:K:458:MET:C	2:K:459:LYS:HG3	2.34	0.46
2:K:703:ASN:O	2:K:707:GLN:HG3	2.16	0.46
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.16	0.46
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.15	0.46
2:K:818:THR:HG22	2:K:829:LYS:HB3	1.96	0.46
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.30	0.46
2:L:274:GLU:O	2:L:278:ARG:HG2	2.16	0.46
2:L:22:ARG:CG	2:L:39:THR:HA	2.42	0.46
2:L:859:SER:CB	2:L:863:GLU:HG3	2.44	0.46
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.97	0.46
1:A:553:ARG:HH21	1:A:567:ASN:HD21	1.62	0.46
1:B:537:ASN:O	1:B:541:VAL:HG23	2.15	0.46
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.98	0.46
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.49	0.46
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.44	0.46
1:C:1696:PHE:O	1:F:1402:THR:HG22	2.15	0.46
1:D:1176:PRO:O	1:D:1180:ILE:HG12	2.15	0.46
1:D:552:ILE:HG21	1:D:566:PHE:CE2	2.50	0.46
1:E:1137:GLN:NE2	1:E:1137:GLN:HA	2.30	0.46
1:E:973:TRP:CD1	1:E:1648:LYS:HD2	2.50	0.46
1:E:335:LEU:O	1:E:335:LEU:HD12	2.15	0.46
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	1.98	0.46
1:F:701:ARG:NH1	1:F:1610:ARG:NH2	2.63	0.46
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.98	0.46
2:G:1160:PHE:CE1	2:G:1164:ILE:HD11	2.50	0.46
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1359:LYS:N	2:G:1360:PRO:CD	2.77	0.46
2:G:1631:ARG:HA	2:G:1686:GLU:HB2	1.96	0.46
2:G:205:ALA:O	2:G:209:GLN:HG3	2.14	0.46
2:G:283:THR:HG23	2:G:470:TYR:O	2.15	0.46
2:G:612:THR:HG22	2:G:612:THR:O	2.15	0.46
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.15	0.46
2:H:1156:ASP:HB2	2:H:1159:SER:N	2.20	0.46
2:H:1305:LEU:HD23	2:H:1366:ILE:CG1	2.45	0.46
2:H:1812:LEU:HD21	2:H:1857:VAL:HG11	1.97	0.46
2:H:290:VAL:HA	2:H:490:LEU:CD1	2.43	0.46
2:H:276:LEU:HD12	2:H:298:ALA:O	2.15	0.46
2:H:388:ASN:HD22	2:H:389:PHE:N	2.13	0.46
2:H:447:ALA:O	2:H:451:ILE:HG13	2.15	0.46
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.97	0.46
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.96	0.46
2:J:1361:ILE:HD11	2:J:1433:PHE:CD2	2.51	0.46
2:J:189:ILE:HD13	2:J:259:ALA:HB3	1.97	0.46
2:J:1863:ARG:HB2	2:J:2017:PHE:HE1	1.80	0.46
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.39	0.46
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.45	0.46
2:K:120:HIS:CD2	2:K:137:VAL:CG1	2.97	0.46
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.50	0.46
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.79	0.46
2:K:699:ILE:HD12	2:K:699:ILE:N	2.30	0.46
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.45	0.46
2:L:1048:TRP:CD1	2:L:1049:GLN:HG2	2.50	0.46
2:L:129:ILE:HG12	2:L:131:ALA:HB3	1.98	0.46
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.15	0.46
2:L:1887:ASN:ND2	2:L:1890:ARG:HG3	2.30	0.46
1:A:1038:HIS:CE1	1:A:1042:LEU:HG	2.50	0.46
1:A:1603:ASP:HB2	1:A:1604:TYR:CD2	2.51	0.46
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.51	0.46
1:A:628:TYR:CD1	1:A:628:TYR:C	2.89	0.46
1:B:421:ARG:HH22	1:B:1613:LYS:CG	2.29	0.46
1:B:340:LEU:HD22	1:B:351:LEU:HD11	1.98	0.46
1:B:414:TYR:O	1:B:418:ILE:HG13	2.16	0.46
1:B:768:ARG:HA	1:B:772:THR:OG1	2.15	0.46
1:D:1262:VAL:HG12	1:D:1267:LEU:HD21	1.98	0.46
1:D:1394:PRO:HB3	1:D:1627:PHE:CE2	2.50	0.46
1:D:580:ASN:OD1	1:D:583:GLN:HB2	2.15	0.46
1:D:574:ILE:HD13	1:D:584:ILE:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.41	0.46
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.38	0.46
1:E:1544:HIS:O	1:E:1544:HIS:CG	2.68	0.46
1:F:1343:PRO:HA	1:F:1526:SER:HA	1.97	0.46
1:F:1504:ARG:NH2	1:F:1545:LEU:O	2.48	0.46
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.98	0.46
2:G:120:HIS:CD2	2:G:137:VAL:HG11	2.51	0.46
2:G:1301:PHE:HD1	2:G:1364:ARG:HG2	1.81	0.46
2:G:1672:LYS:O	2:G:1672:LYS:HG2	2.14	0.46
2:G:27:THR:HG22	2:G:32:GLU:CD	2.36	0.46
2:G:279:PHE:HB2	2:G:467:ILE:HD12	1.97	0.46
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.97	0.46
2:H:1464:LEU:HD11	2:H:1468:ARG:HD2	1.98	0.46
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.46	0.46
2:H:857:VAL:HG11	2:H:876:TRP:CD1	2.50	0.46
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.98	0.46
2:I:1692:TYR:O	2:I:1833:PHE:HA	2.15	0.46
2:J:1402:ASN:O	2:J:1403:ALA:HB2	2.15	0.46
2:J:1851:MET:HE1	2:J:2024:LYS:HB3	1.97	0.46
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.16	0.46
2:K:129:ILE:HG12	2:K:131:ALA:HB3	1.97	0.46
2:K:1442:TYR:HA	2:K:1445:THR:HG22	1.97	0.46
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.31	0.46
2:L:1346:MET:HG2	2:L:1617:ARG:NH2	2.30	0.46
2:L:1468:ARG:CB	2:L:1468:ARG:NH1	2.76	0.46
2:L:170:TYR:CD2	2:L:507:PHE:HB3	2.50	0.46
2:L:468:PRO:HD3	2:L:479:ARG:HH21	1.77	0.46
2:L:485:ASP:HB2	2:L:488:PRO:HD2	1.91	0.46
1:A:1414:PRO:HD2	1:E:1473:HIS:CD2	2.50	0.46
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.97	0.46
1:B:1587:PRO:HA	1:B:1611:SER:OG	2.14	0.46
1:B:1610:ARG:CG	1:B:1610:ARG:NH1	2.58	0.46
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.50	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.51	0.46
1:C:726:VAL:HG21	1:C:780:ALA:CB	2.46	0.46
1:E:1363:MET:HE2	1:E:1363:MET:HB2	1.57	0.46
1:E:414:TYR:O	1:E:418:ILE:HG13	2.15	0.46
1:E:447:PHE:CE1	1:E:451:HIS:NE2	2.84	0.46
1:E:833:TRP:CH2	1:E:839:ILE:HD11	2.49	0.46
1:F:1079:ARG:NH1	1:F:1079:ARG:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1525:THR:O	1:F:1526:SER:HB3	2.16	0.46
2:G:911:GLN:HE21	2:G:1065:CYS:H	1.62	0.46
2:H:1353:GLY:CA	2:H:1397:THR:HG21	2.45	0.46
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.15	0.46
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.51	0.46
2:H:703:ASN:O	2:H:707:GLN:HG3	2.15	0.46
2:H:741:LEU:HG	2:H:741:LEU:O	2.16	0.46
2:H:788:THR:HG21	2:H:810:CYS:SG	2.55	0.46
2:I:208:LEU:HB3	2:I:225:LEU:HD13	1.98	0.46
2:I:388:ASN:HD22	2:I:389:PHE:N	2.14	0.46
2:I:485:ASP:CB	2:I:488:PRO:CD	2.89	0.46
2:I:979:LEU:CD2	2:I:999:ALA:HB3	2.46	0.46
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.96	0.46
2:J:1141:LYS:CE	2:J:1143:SER:HB2	2.46	0.46
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.81	0.46
2:J:1353:GLY:CA	2:J:1397:THR:HG21	2.42	0.46
2:J:1499:LYS:CG	2:J:1500:ASN:H	2.29	0.46
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.50	0.46
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.49	0.46
2:K:1708:LEU:HD22	2:K:1708:LEU:O	2.16	0.46
2:K:193:TYR:O	2:K:197:VAL:HG23	2.16	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.49	0.46
2:K:857:VAL:HG11	2:K:876:TRP:NE1	2.26	0.46
2:K:930:THR:HG22	2:K:933:GLU:H	1.79	0.46
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.16	0.46
2:L:1977:ARG:HD2	2:L:1978:LYS:HE3	1.97	0.46
2:L:27:THR:HG22	2:L:32:GLU:CD	2.36	0.46
1:A:1364:THR:CG2	1:A:1366:GLN:HB2	2.46	0.46
1:A:1467:LEU:O	1:A:1471:THR:HG23	2.16	0.46
1:A:501:ASP:HB2	1:A:505:ASN:HB2	1.96	0.46
1:A:552:ILE:HG21	1:A:566:PHE:CE2	2.50	0.46
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.51	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.45	0.46
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.48	0.46
1:C:1672:GLY:HA3	1:C:1678:LEU:HD23	1.97	0.46
1:D:1321:MET:HB3	1:D:1321:MET:HE2	1.76	0.46
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.48	0.46
1:D:1467:LEU:O	1:D:1471:THR:HG23	2.16	0.46
1:D:444:LEU:HD22	1:D:448:MET:CG	2.46	0.46
1:D:670:LEU:CD1	1:D:680:VAL:HG21	2.46	0.46
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:871:PHE:N	1:D:871:PHE:CD1	2.82	0.46
1:E:1425:LEU:CD2	1:E:1429:ARG:HH21	2.18	0.46
1:E:1581:LEU:HD13	1:E:1638:HIS:HA	1.97	0.46
1:E:530:GLY:O	1:E:611:THR:HG21	2.14	0.46
1:F:1209:PHE:CZ	1:F:1301:VAL:HG21	2.51	0.46
1:F:1587:PRO:HA	1:F:1611:SER:OG	2.15	0.46
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.46
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.46	0.46
2:G:1412:MET:HE3	2:G:1412:MET:HB3	1.75	0.46
2:G:1632:VAL:HB	2:G:1685:VAL:HG22	1.98	0.46
2:G:1868:GLN:O	2:G:1873:ARG:NH2	2.49	0.46
2:G:930:THR:HA	2:G:1007:LEU:HA	1.97	0.46
2:G:930:THR:HG22	2:G:933:GLU:H	1.77	0.46
2:H:1238:GLY:O	2:H:1239:ASP:OD1	2.33	0.46
2:H:291:VAL:O	2:H:295:ILE:HB	2.16	0.46
2:H:827:GLN:CD	2:H:827:GLN:H	2.19	0.46
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.97	0.46
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.46
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.56	0.46
2:J:1238:GLY:O	2:J:1239:ASP:OD1	2.34	0.46
2:J:2062:THR:HG22	2:J:2064:SER:N	2.31	0.46
2:J:320:LEU:O	2:J:324:GLN:HG3	2.15	0.46
2:J:421:PHE:C	2:J:423:GLN:H	2.19	0.46
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.51	0.46
2:K:1572:ARG:HG2	2:K:1647:ASP:O	2.16	0.46
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.97	0.46
2:K:1932:ASP:OD2	2:K:1934:ARG:HD2	2.15	0.46
2:K:1938:THR:HG22	2:K:1977:ARG:HA	1.98	0.46
2:K:279:PHE:HB2	2:K:467:ILE:HD12	1.98	0.46
2:L:1266:HIS:CE1	2:L:1275:ARG:CD	2.94	0.46
2:L:609:THR:HG23	3:L:2101:FMN:O4	2.16	0.46
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.45	0.46
2:L:172:ILE:HG22	2:L:514:VAL:O	2.16	0.46
2:L:960:GLY:O	2:L:963:ILE:HB	2.16	0.46
1:A:1078:ILE:HB	1:A:1338:GLY:HA3	1.97	0.46
1:A:1273:ILE:HG13	1:A:1273:ILE:O	2.16	0.46
1:A:636:TYR:HB2	1:A:888:ILE:HD11	1.96	0.46
1:B:1294:ILE:HD11	1:B:1302:CYS:HB3	1.98	0.46
1:B:458:GLU:CD	1:B:458:GLU:H	2.19	0.46
1:B:501:ASP:HB2	1:B:505:ASN:HB2	1.96	0.46
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:349:MET:O	1:C:349:MET:HG3	2.16	0.46
1:C:406:ALA:HB2	1:C:439:ARG:HD2	1.98	0.46
1:C:683:THR:HG21	1:C:725:LEU:HD11	1.97	0.46
1:D:1514:ILE:HG13	1:D:1514:ILE:H	1.20	0.46
1:D:623:PHE:HD2	1:D:623:PHE:N	2.14	0.46
1:D:617:LEU:HD11	1:D:636:TYR:HB2	1.98	0.46
1:D:636:TYR:HB2	1:D:888:ILE:HD11	1.96	0.46
1:F:1149:LEU:HA	1:F:1149:LEU:HD23	1.71	0.46
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.80	0.46
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.51	0.46
2:G:1009:ASN:HD22	2:G:1010:ALA:N	2.14	0.46
2:G:590:VAL:CG2	2:G:1091:HIS:CD2	2.98	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:1507:VAL:O	2:G:1531:GLU:HA	2.16	0.46
2:G:657:GLY:HA3	2:G:688:GLU:HG2	1.98	0.46
2:H:1048:TRP:CE2	2:H:1049:GLN:HG2	2.50	0.46
2:H:868:LEU:HD23	2:H:1066:ILE:HD12	1.97	0.46
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.68	0.46
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.16	0.46
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.97	0.46
2:H:1933:LEU:O	2:H:1989:LEU:HD11	2.16	0.46
2:H:2053:GLU:H	2:H:2053:GLU:HG3	1.47	0.46
2:H:421:PHE:C	2:H:423:GLN:H	2.19	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.50	0.46
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.50	0.46
2:I:1103:TYR:O	2:I:1106:LYS:HB2	2.14	0.46
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.15	0.46
2:I:1204:VAL:HA	2:I:1218:SER:O	2.16	0.46
2:I:1238:GLY:O	2:I:1239:ASP:OD1	2.33	0.46
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.77	0.46
2:I:1626:GLU:O	2:I:1627:ASN:HB2	2.15	0.46
2:I:1896:THR:HG22	2:I:1898:GLN:N	2.23	0.46
2:I:2005:PHE:HA	2:I:2010:LEU:CD1	2.31	0.46
1:C:27:ARG:HG3	2:I:2045:ALA:HB2	1.97	0.46
2:I:582:LYS:HA	2:I:587:GLN:O	2.15	0.46
2:I:930:THR:HG22	2:I:933:GLU:H	1.79	0.46
2:J:1146:LEU:O	2:J:1201:GLY:HA2	2.16	0.46
2:J:271:GLU:HG2	2:J:301:TRP:NE1	2.30	0.46
2:K:1207:THR:O	2:K:1215:THR:HA	2.16	0.46
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.16	0.46
2:K:1812:LEU:HD21	2:K:1857:VAL:HG11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.30	0.46
2:K:276:LEU:HD13	2:K:466:VAL:HG21	1.97	0.46
2:K:741:LEU:HG	2:K:741:LEU:O	2.15	0.46
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.89	0.46
2:L:1932:ASP:OD2	2:L:1934:ARG:HD2	2.15	0.46
2:L:196:PHE:HD2	2:L:266:LYS:CB	2.28	0.46
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.42	0.46
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.97	0.46
2:L:652:ILE:HG23	2:L:653:PRO:HD2	1.97	0.46
2:L:663:ILE:CD1	2:L:663:ILE:H	2.18	0.46
2:L:746:GLY:HA3	2:L:843:TRP:CZ2	2.51	0.46
1:A:1220:ASN:HB3	1:A:1273:ILE:HG22	1.97	0.46
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.16	0.46
1:A:1703:VAL:HG23	1:A:1713:PHE:CE1	2.51	0.46
1:A:329:THR:O	1:A:332:GLN:HB2	2.16	0.46
1:A:427:ARG:HH21	1:A:518:LYS:HG2	1.81	0.46
1:A:59:ARG:NH1	2:G:1925:MET:HE2	2.31	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.22	0.46
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.51	0.46
1:C:1473:HIS:C	1:C:1473:HIS:ND1	2.69	0.46
1:D:999:LEU:HD11	1:D:1575:ASN:CB	2.45	0.46
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.51	0.46
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.50	0.46
1:D:875:GLU:O	1:D:878:PHE:HB3	2.15	0.46
1:E:35:ILE:HD13	2:K:1691:ALA:HB1	1.97	0.46
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.28	0.46
1:E:557:ARG:NH1	1:E:557:ARG:HG3	1.99	0.46
1:E:921:GLU:HG3	1:E:922:ILE:H	1.81	0.46
1:F:874:GLN:H	1:F:874:GLN:HG2	1.40	0.46
2:G:1141:LYS:CE	2:G:1143:SER:HB2	2.46	0.46
2:G:942:MET:O	2:G:951:ILE:HG13	2.16	0.46
2:H:1452:VAL:O	2:H:1454:MET:HG3	2.16	0.46
2:H:910:PHE:O	2:H:1063:ARG:HD3	2.16	0.46
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.51	0.46
2:I:1504:TYR:HD2	2:I:1507:VAL:HG11	1.81	0.46
2:I:26:LEU:HA	2:I:26:LEU:HD23	1.83	0.46
2:I:279:PHE:HB2	2:I:467:ILE:HD12	1.97	0.46
2:J:1261:PHE:HA	2:J:1284:ARG:NH1	2.31	0.46
2:J:1067:LEU:HB2	3:J:2101:FMN:HM71	1.98	0.46
2:J:730:ILE:O	2:J:733:ALA:HB3	2.16	0.46
2:K:1452:VAL:O	2:K:1454:MET:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1483:LEU:CD2	2:K:1525:VAL:HG11	2.45	0.46
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.16	0.46
2:K:1832:THR:HG21	2:K:2040:ILE:HD11	1.98	0.46
2:K:274:GLU:O	2:K:278:ARG:HG2	2.15	0.46
2:L:1156:ASP:CB	2:L:1159:SER:H	2.20	0.46
2:L:1249:GLY:HA2	2:L:1256:VAL:HG22	1.97	0.46
2:L:1626:GLU:O	2:L:1627:ASN:HB2	2.15	0.46
2:L:205:ALA:O	2:L:209:GLN:HG3	2.16	0.46
1:A:875:GLU:O	1:A:878:PHE:HB3	2.15	0.46
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.41	0.46
1:B:648:LEU:HD12	1:B:649:THR:H	1.81	0.46
1:B:843:VAL:HG22	1:B:843:VAL:O	2.15	0.46
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.98	0.46
1:B:959:PRO:HB3	2:H:972:SER:HA	1.97	0.46
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.43	0.46
1:C:1176:PRO:O	1:C:1180:ILE:HG12	2.15	0.46
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.50	0.46
1:C:538:ARG:HD2	1:C:542:GLN:NE2	2.30	0.46
1:D:1592:ALA:O	1:D:1593:ASP:C	2.55	0.46
1:F:535:TYR:HD2	1:F:540:LYS:CG	2.28	0.46
2:G:1257:VAL:HA	2:G:1258:PRO:HD3	1.73	0.46
2:G:1424:LYS:HA	2:G:1425:PRO:HD3	1.85	0.46
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.80	0.46
2:G:333:PRO:HB3	2:H:1623:TRP:CH2	2.50	0.46
2:G:934:VAL:O	2:G:938:MET:HG3	2.16	0.46
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.46	0.46
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.51	0.46
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.81	0.46
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.44	0.46
2:H:1464:LEU:C	2:H:1464:LEU:HD13	2.35	0.46
2:H:182:TYR:CD1	2:H:183:PHE:N	2.84	0.46
2:H:544:ALA:O	2:H:554:TYR:HB3	2.16	0.46
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.98	0.46
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.31	0.46
2:I:690:LEU:HD22	2:I:691:THR:H	1.80	0.46
2:I:879:LEU:HB3	2:I:884:PHE:CE1	2.51	0.46
2:J:1442:TYR:HA	2:J:1445:THR:CG2	2.39	0.46
2:J:1692:TYR:O	2:J:1833:PHE:HA	2.16	0.46
2:J:1729:ASN:O	2:J:1757:ILE:HG23	2.16	0.46
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.97	0.46
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.16	0.46
2:K:2053:GLU:HG3	2:K:2053:GLU:H	1.49	0.46
2:K:320:LEU:O	2:K:324:GLN:HG3	2.16	0.46
2:K:888:ARG:HD3	2:K:891:ARG:NH1	2.31	0.46
1:F:17:LEU:HD22	2:L:2041:PRO:HB3	1.98	0.46
2:L:357:THR:HG22	2:L:359:SER:H	1.80	0.46
2:L:616:ASP:OD1	2:L:616:ASP:N	2.48	0.46
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.46	0.46
1:A:1159:LEU:HD12	1:A:1327:ALA:HB3	1.98	0.46
1:A:1321:MET:HB3	1:A:1321:MET:HE2	1.86	0.46
1:A:1386:THR:HG22	1:A:1387:ASP:N	2.31	0.46
1:A:1401:LEU:O	1:A:1401:LEU:HD22	2.16	0.46
1:A:1670:HIS:ND1	2:G:1009:ASN:ND2	2.64	0.46
1:A:24:MET:HE2	2:G:2043:VAL:HG13	1.98	0.46
1:A:450:TYR:CD1	1:A:1551:ASN:HB2	2.51	0.46
1:B:1288:ASP:O	1:B:1291:TYR:HB3	2.16	0.46
1:B:21:GLN:HE22	2:H:1841:TYR:HE1	1.64	0.46
1:B:43:ARG:NH1	2:H:1687:GLN:NE2	2.65	0.46
1:B:754:ARG:HH21	1:B:762:LYS:HD3	1.81	0.46
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	2.16	0.46
1:C:340:LEU:HD22	1:C:351:LEU:HD11	1.97	0.46
1:C:749:ILE:CD1	1:C:769:ILE:HD12	2.46	0.46
1:D:1137:GLN:NE2	1:D:1137:GLN:HA	2.30	0.46
1:D:1287:LEU:HA	1:D:1304:VAL:HG11	1.97	0.46
1:D:1359:VAL:HG12	1:D:1360:GLN:N	2.30	0.46
1:D:1386:THR:HG22	1:D:1387:ASP:N	2.31	0.46
1:D:605:ARG:CB	1:D:606:PRO:CD	2.87	0.46
1:D:612:ILE:HG23	1:D:613:PRO:HD2	1.98	0.46
1:A:1149:LEU:CB	1:E:1149:LEU:HB2	2.44	0.46
1:E:869:ARG:O	1:E:903:GLY:HA3	2.15	0.46
1:F:1137:GLN:HA	1:F:1137:GLN:NE2	2.31	0.46
1:F:28:TRP:CE2	1:F:53:LEU:HD22	2.51	0.46
1:F:349:MET:HG3	1:F:349:MET:O	2.16	0.46
1:F:901:LEU:HD23	1:F:901:LEU:N	2.31	0.46
2:G:1375:HIS:CE1	2:G:1610:MET:HG2	2.51	0.46
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.46
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.46	0.46
2:G:314:LEU:O	2:G:318:ILE:HG13	2.16	0.46
2:G:465:LEU:HB2	2:G:479:ARG:HG2	1.97	0.46
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.45	0.46
2:G:731:ALA:CB	2:G:739:ILE:HD12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.46	0.46
2:G:798:THR:HA	2:G:802:TYR:O	2.16	0.46
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.16	0.46
2:H:605:VAL:HB	2:H:628:ILE:CG1	2.41	0.46
2:H:613:VAL:N	2:H:614:PRO:CD	2.79	0.46
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.79	0.46
2:I:1266:HIS:CE1	2:I:1275:ARG:CD	2.94	0.46
2:I:1305:LEU:CD1	2:I:1305:LEU:H	2.29	0.46
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.16	0.46
2:I:1316:VAL:HG13	2:I:1348:PHE:HE2	1.81	0.46
2:I:1442:TYR:O	2:I:1445:THR:HG22	2.16	0.46
2:I:1602:LEU:HD22	2:I:1606:ILE:HD11	1.98	0.46
2:I:1616:VAL:O	2:I:1620:VAL:HG23	2.15	0.46
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.16	0.46
2:I:205:ALA:O	2:I:209:GLN:HG3	2.16	0.46
2:I:27:THR:HG22	2:I:32:GLU:CD	2.37	0.46
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.97	0.46
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.81	0.46
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.46	0.46
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.98	0.46
2:J:783:GLY:CA	2:J:815:ARG:HD3	2.46	0.46
2:J:884:PHE:HE2	2:J:1039:GLU:CA	2.29	0.46
2:J:942:MET:O	2:J:951:ILE:HG13	2.16	0.46
2:K:1330:ASN:HD22	2:K:1618:SER:CB	2.29	0.46
2:K:1977:ARG:HD2	2:K:1978:LYS:HE3	1.98	0.46
2:K:2017:PHE:HE2	2:K:2021:LEU:HD11	1.80	0.46
2:K:356:LEU:O	2:K:387:ARG:HA	2.16	0.46
2:K:420:PRO:HB2	2:K:423:GLN:HB2	1.97	0.46
2:K:478:LEU:HD22	2:K:481:LEU:HD11	1.99	0.46
2:K:676:LEU:HD23	2:K:679:ARG:NH2	2.30	0.46
2:K:608:MET:HE1	2:K:817:MET:HG2	1.98	0.46
2:K:856:THR:HG22	2:K:865:ILE:O	2.15	0.46
2:K:995:ARG:O	2:K:998:ALA:HB3	2.15	0.46
2:L:342:ASN:HB2	2:L:406:ARG:NH2	2.31	0.46
1:A:1534:GLU:HG2	1:A:1625:PHE:HE1	1.80	0.45
1:A:47:ILE:HD12	2:G:1818:PHE:HD1	1.81	0.45
1:C:1525:THR:O	1:C:1526:SER:HB3	2.16	0.45
1:C:1706:GLU:HB2	1:C:1710:GLU:O	2.15	0.45
1:D:1313:GLU:H	1:D:1313:GLU:HG2	1.48	0.45
1:D:458:GLU:CD	1:D:458:GLU:H	2.19	0.45
1:E:689:ARG:CD	1:E:1339:GLU:HG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1426:GLU:HA	1:E:1429:ARG:HG3	1.99	0.45
1:E:1638:HIS:ND1	1:E:1639:PRO:CD	2.79	0.45
1:F:1475:GLU:HB3	1:F:1479:ARG:NH2	2.31	0.45
1:F:1591:ASN:C	1:F:1593:ASP:H	2.20	0.45
1:F:24:MET:HE2	2:L:2043:VAL:HG13	1.99	0.45
1:F:628:TYR:CD1	1:F:628:TYR:C	2.89	0.45
2:G:1451:GLU:HG3	2:G:1541:ILE:HD11	1.96	0.45
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.51	0.45
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.16	0.45
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.51	0.45
2:G:605:VAL:HB	2:G:628:ILE:CG1	2.43	0.45
2:G:652:ILE:CG2	2:G:656:ARG:HB2	2.46	0.45
2:H:421:PHE:HB3	2:H:844:GLU:OE2	2.16	0.45
2:I:73:VAL:HA	2:I:113:PHE:HE2	1.80	0.45
2:I:1662:ARG:HG2	2:I:1686:GLU:HG2	1.98	0.45
2:I:2038:LYS:HD3	2:I:2038:LYS:HA	1.74	0.45
2:I:276:LEU:HD11	2:I:296:ALA:HA	1.98	0.45
2:J:930:THR:HA	2:J:1007:LEU:HA	1.97	0.45
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.97	0.45
2:J:1130:ILE:HD12	2:J:1133:LEU:HD22	1.98	0.45
2:J:595:SER:HB2	2:J:600:VAL:O	2.16	0.45
2:J:652:ILE:CG2	2:J:656:ARG:HB2	2.46	0.45
2:J:771:CYS:HB3	2:J:774:ILE:CD1	2.44	0.45
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.51	0.45
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.81	0.45
2:K:1851:MET:HB3	2:K:1851:MET:HE2	1.85	0.45
1:E:23:ALA:HA	2:K:2007:SER:O	2.15	0.45
2:K:350:MET:SD	2:K:392:THR:CG2	3.04	0.45
2:K:506:VAL:O	2:K:506:VAL:HG22	2.16	0.45
2:K:617:PHE:HE2	2:K:628:ILE:HD11	1.81	0.45
2:K:798:THR:HA	2:K:802:TYR:O	2.15	0.45
2:L:1123:ALA:O	2:L:1126:GLU:OE2	2.33	0.45
2:L:1120:ILE:HD11	2:L:1167:ASN:O	2.15	0.45
2:L:37:VAL:HG11	2:L:42:HIS:HA	1.98	0.45
1:A:1106:LEU:HD13	1:A:1142:LEU:HD13	1.98	0.45
1:B:1426:GLU:HA	1:B:1429:ARG:HG3	1.98	0.45
1:B:427:ARG:NH1	1:B:427:ARG:CG	2.48	0.45
1:C:1001:GLU:O	1:C:1002:ILE:HD12	2.16	0.45
1:C:1287:LEU:HA	1:C:1304:VAL:HG11	1.99	0.45
1:C:35:ILE:HD13	2:I:1691:ALA:HB1	1.97	0.45
1:C:501:ASP:HB2	1:C:505:ASN:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:743:VAL:HG12	1:C:745:PRO:HG3	1.99	0.45
1:C:948:HIS:O	1:C:952:TYR:HD2	1.99	0.45
1:D:743:VAL:O	1:D:745:PRO:HD3	2.16	0.45
1:E:1019:LYS:HB2	1:E:1019:LYS:HE3	1.70	0.45
1:E:1107:GLU:HA	1:E:1108:PRO:HD3	1.77	0.45
1:B:557:ARG:HH11	1:E:558:LEU:HA	1.80	0.45
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.97	0.45
1:E:655:ALA:O	1:E:680:VAL:HA	2.16	0.45
1:F:340:LEU:HD22	1:F:351:LEU:HD11	1.98	0.45
1:F:427:ARG:O	1:F:430:VAL:HB	2.15	0.45
1:F:653:LYS:HD3	1:F:742:TYR:CE2	2.52	0.45
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.43	0.45
2:G:910:PHE:O	2:G:1063:ARG:HD3	2.16	0.45
2:G:1406:ASN:HB3	2:G:1411:LYS:HG3	1.98	0.45
2:G:1622:THR:O	2:G:1626:GLU:HA	2.16	0.45
2:G:460:ILE:HA	2:G:461:PRO:HD3	1.80	0.45
2:G:608:MET:HA	3:G:2101:FMN:N5	2.31	0.45
2:G:731:ALA:HA	2:G:739:ILE:HD12	1.97	0.45
2:G:746:GLY:HA3	2:G:843:TRP:CZ2	2.51	0.45
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.15	0.45
2:H:957:LYS:HE2	2:H:1022:ARG:HH22	1.82	0.45
2:H:610:PRO:O	2:H:613:VAL:HG12	2.17	0.45
2:H:665:VAL:HG12	2:H:665:VAL:O	2.17	0.45
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.65	0.45
2:H:980:LEU:HD21	2:H:986:LEU:HD21	1.97	0.45
2:I:1250:ARG:CD	2:I:1250:ARG:H	2.28	0.45
2:I:1286:LYS:HZ1	2:I:1367:ASP:HB2	1.81	0.45
2:I:1871:VAL:HG23	2:I:2003:VAL:HG13	1.97	0.45
2:J:80:ILE:HG12	2:J:105:ILE:HG22	1.97	0.45
2:J:1199:THR:HB	2:J:1202:MET:HB3	1.98	0.45
2:J:1266:HIS:CD2	2:J:1266:HIS:N	2.84	0.45
2:J:1588:ASN:OD1	2:J:1589:PRO:HD2	2.16	0.45
2:J:1904:VAL:HG22	2:J:1939:LEU:CD2	2.46	0.45
2:K:1316:VAL:HG13	2:K:1348:PHE:HE2	1.81	0.45
2:K:1426:VAL:HG12	2:K:1427:MET:HG2	1.98	0.45
2:K:2062:THR:HG22	2:K:2064:SER:N	2.31	0.45
2:K:350:MET:HG3	2:K:435:ILE:HG21	1.99	0.45
2:K:792:LEU:HD12	2:K:792:LEU:O	2.16	0.45
2:L:1250:ARG:H	2:L:1250:ARG:CD	2.29	0.45
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.16	0.45
1:A:30:GLU:HG3	1:A:30:GLU:H	1.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.49	0.45
1:C:1031:MET:HB3	1:C:1031:MET:HE2	1.76	0.45
1:C:1330:GLU:CG	1:C:1333:ARG:NH1	2.80	0.45
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	1.99	0.45
1:C:447:PHE:HE1	1:C:451:HIS:HE2	1.63	0.45
1:C:859:VAL:HG22	1:C:918:LEU:HB3	1.99	0.45
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.16	0.45
1:D:689:ARG:NH2	1:D:1591:ASN:HD21	2.13	0.45
1:E:1514:ILE:HG13	1:E:1514:ILE:H	1.23	0.45
1:E:617:LEU:HD11	1:E:636:TYR:HB2	1.98	0.45
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.51	0.45
1:F:1560:TYR:CE2	1:F:1589:ASN:HA	2.51	0.45
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.46	0.45
1:F:921:GLU:HG3	1:F:922:ILE:H	1.81	0.45
1:F:929:ARG:O	1:F:933:ILE:HG13	2.16	0.45
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.47	0.45
2:G:1504:TYR:HD2	2:G:1507:VAL:HG11	1.81	0.45
2:G:1588:ASN:OD1	2:G:1589:PRO:HD2	2.16	0.45
2:G:1709:TYR:CD2	2:G:1709:TYR:C	2.90	0.45
2:H:274:GLU:O	2:H:278:ARG:HG2	2.16	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:I:580:LEU:CD2	2:I:1095:ILE:HG22	2.46	0.45
2:I:1499:LYS:CG	2:I:1500:ASN:H	2.28	0.45
2:I:1851:MET:HE1	2:I:2024:LYS:HB3	1.98	0.45
2:I:1944:ASN:HA	2:I:1993:PHE:CE1	2.52	0.45
2:I:37:VAL:HG11	2:I:42:HIS:HA	1.98	0.45
2:I:746:GLY:HA3	2:I:843:TRP:CZ2	2.52	0.45
2:I:911:GLN:HE21	2:I:1064:THR:HG23	1.81	0.45
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.51	0.45
2:J:1348:PHE:O	2:J:1351:VAL:HG12	2.15	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.24	0.45
2:J:321:ARG:HE	2:J:450:HIS:HB3	1.81	0.45
2:J:276:LEU:HD13	2:J:466:VAL:HG21	1.99	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.47	0.45
2:J:930:THR:HG22	2:J:933:GLU:H	1.80	0.45
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.17	0.45
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.98	0.45
2:K:1896:THR:CG2	2:K:1897:GLU:N	2.78	0.45
2:K:1977:ARG:CD	2:K:1978:LYS:HE3	2.46	0.45
2:K:197:VAL:O	2:K:200:LEU:HD23	2.16	0.45
2:K:652:ILE:HG23	2:K:653:PRO:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:725:GLN:HG2	2:K:764:MET:CE	2.47	0.45
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.46	0.45
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.16	0.45
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.98	0.45
2:L:336:LEU:HD23	2:L:336:LEU:C	2.37	0.45
2:L:663:ILE:N	2:L:663:ILE:HD12	2.30	0.45
1:A:449:GLN:O	1:A:452:ILE:HG22	2.17	0.45
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.51	0.45
1:B:1042:LEU:HD23	1:B:1042:LEU:HA	1.76	0.45
1:B:28:TRP:CE2	1:B:53:LEU:HD22	2.52	0.45
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.97	0.45
1:B:653:LYS:HD3	1:B:742:TYR:CE2	2.51	0.45
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.17	0.45
1:C:36:LEU:O	1:C:76:ARG:NH2	2.49	0.45
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.52	0.45
1:B:1317:GLU:CG	1:D:1250:LEU:HB2	2.41	0.45
1:D:1086:PHE:CZ	1:D:1310:PHE:HD2	2.34	0.45
1:D:1586:VAL:CG2	1:D:1617:ILE:HD11	2.46	0.45
1:D:427:ARG:O	1:D:430:VAL:HB	2.17	0.45
1:D:490:VAL:O	1:D:490:VAL:HG12	2.17	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:CD1	2.47	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.30	0.45
1:E:1037:ASN:CB	1:E:1674:ILE:HG23	2.47	0.45
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.77	0.45
1:E:631:LYS:O	1:E:635:ILE:HG13	2.15	0.45
1:E:653:LYS:HD3	1:E:742:TYR:CE2	2.51	0.45
1:F:994:VAL:HG21	1:F:1291:TYR:CD1	2.52	0.45
1:F:470:GLY:O	1:F:474:ILE:HG13	2.16	0.45
2:G:1175:MET:HA	2:G:1274:ILE:HD11	1.99	0.45
2:G:1558:GLU:O	2:G:1560:PRO:HD3	2.17	0.45
2:G:1588:ASN:HD21	2:G:1590:ILE:HD12	1.81	0.45
2:G:1767:GLU:CB	2:G:2016:PRO:HG3	2.38	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.51	0.45
2:H:1093:ASP:O	2:H:1097:PHE:HB2	2.16	0.45
2:H:1588:ASN:OD1	2:H:1589:PRO:HD2	2.15	0.45
2:H:159:PHE:CZ	2:H:275:LEU:HD21	2.52	0.45
2:H:350:MET:HE2	2:H:435:ILE:HD12	1.98	0.45
1:C:1037:ASN:HD21	2:I:1011:GLN:HG2	1.80	0.45
2:I:1348:PHE:CE1	2:I:1351:VAL:HG11	2.51	0.45
2:I:1348:PHE:O	2:I:1351:VAL:HG12	2.16	0.45
2:I:1593:SER:HG	2:I:1596:PHE:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1887:ASN:ND2	2:I:1890:ARG:HG3	2.32	0.45
2:I:190:TYR:HE1	2:I:201:ILE:HG21	1.80	0.45
2:I:718:PRO:HG2	2:I:741:LEU:HD11	1.98	0.45
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.98	0.45
2:J:1290:TYR:CG	2:J:1299:VAL:CG1	2.91	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:CE2	2.51	0.45
2:J:1426:VAL:HG12	2:J:1427:MET:HG2	1.98	0.45
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.52	0.45
2:J:1947:LYS:HG3	2:J:1948:MET:HE2	1.97	0.45
2:J:37:VAL:HG11	2:J:42:HIS:HA	1.97	0.45
2:J:487:ILE:HB	2:J:488:PRO:CD	2.40	0.45
2:J:555:LYS:HB3	2:J:556:PRO:HD3	1.98	0.45
2:J:612:THR:HG21	2:J:629:GLU:O	2.16	0.45
2:J:610:PRO:O	2:J:613:VAL:HG12	2.16	0.45
2:J:741:LEU:O	2:J:741:LEU:HG	2.15	0.45
2:K:1238:GLY:O	2:K:1239:ASP:OD1	2.33	0.45
2:K:291:VAL:O	2:K:295:ILE:HB	2.15	0.45
2:K:388:ASN:HD22	2:K:389:PHE:N	2.14	0.45
2:K:859:SER:CB	2:K:863:GLU:HG3	2.46	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.24	0.45
2:L:321:ARG:HE	2:L:450:HIS:HB3	1.81	0.45
2:L:914:TRP:CD1	2:L:916:GLY:CA	2.97	0.45
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.17	0.45
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.52	0.45
1:B:1185:PRO:O	1:B:1188:LEU:HB2	2.17	0.45
1:B:1078:ILE:HB	1:B:1338:GLY:HA3	1.97	0.45
1:C:1343:PRO:HA	1:C:1526:SER:HA	1.99	0.45
1:C:562:SER:CB	1:D:551:LEU:HD21	2.46	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.16	0.45
1:B:1699:PRO:HG3	1:D:1405:ARG:C	2.37	0.45
1:D:30:GLU:HG3	1:D:30:GLU:H	1.52	0.45
1:D:422:LEU:HB3	1:D:429:ILE:CD1	2.46	0.45
1:D:613:PRO:HD3	1:D:628:TYR:CE2	2.52	0.45
1:E:1020:PHE:CE2	1:E:1028:MET:HG3	2.51	0.45
1:E:1294:ILE:HD11	1:E:1302:CYS:HB3	1.99	0.45
1:A:1251:GLN:HG3	1:E:1321:MET:HE1	1.98	0.45
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.46	0.45
1:E:1307:PHE:CA	1:E:1568:ALA:HB2	2.47	0.45
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.45
1:F:1011:ARG:C	1:F:1011:ARG:HD2	2.37	0.45
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1535:SER:HB3	1:F:1602:PHE:CD1	2.52	0.45
2:G:1093:ASP:O	2:G:1097:PHE:HB2	2.16	0.45
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.31	0.45
2:G:1281:ARG:HH22	2:G:1599:TYR:HE2	1.63	0.45
2:G:1722:ALA:CB	2:G:1812:LEU:HD11	2.46	0.45
2:G:1972:ILE:H	2:G:1972:ILE:HG13	1.37	0.45
2:G:818:THR:HG22	2:G:829:LYS:HB3	1.98	0.45
2:H:1141:LYS:CE	2:H:1143:SER:HB2	2.47	0.45
2:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.16	0.45
2:H:1650:THR:O	2:H:1669:ALA:HA	2.16	0.45
2:H:342:ASN:HB2	2:H:406:ARG:NH2	2.32	0.45
2:H:468:PRO:HD3	2:H:479:ARG:HH21	1.77	0.45
2:H:759:GLN:N	2:H:760:PRO:CD	2.80	0.45
2:I:1028:VAL:HG22	2:I:1030:PHE:CE2	2.52	0.45
2:I:884:PHE:CE2	2:I:1039:GLU:HA	2.51	0.45
2:I:1175:MET:CE	2:I:1192:LEU:HD11	2.46	0.45
2:I:1316:VAL:HG13	2:I:1348:PHE:CE2	2.51	0.45
2:I:1316:VAL:HB	2:I:1391:VAL:O	2.17	0.45
2:I:1412:MET:HB3	2:I:1412:MET:HE3	1.84	0.45
2:I:1462:GLN:O	2:I:1466:VAL:HG23	2.17	0.45
2:I:663:ILE:HD12	2:I:663:ILE:N	2.30	0.45
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.51	0.45
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.30	0.45
2:J:2017:PHE:HE2	2:J:2021:LEU:HD11	1.81	0.45
2:J:2058:VAL:CG1	2:J:2067:ILE:HD12	2.47	0.45
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.51	0.45
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.46	0.45
2:J:649:GLU:HG3	2:J:650:LYS:HG3	1.97	0.45
2:J:980:LEU:HB2	2:J:996:ILE:CD1	2.46	0.45
2:J:979:LEU:CD2	2:J:999:ALA:HB3	2.45	0.45
2:K:1335:PHE:CE1	2:K:1629:ILE:HD11	2.51	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.99	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.38	0.45
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.36	0.45
2:K:1896:THR:HG22	2:K:1898:GLN:N	2.20	0.45
2:K:220:GLN:NE2	2:K:324:GLN:HG2	2.31	0.45
2:K:321:ARG:HE	2:K:450:HIS:HB3	1.82	0.45
2:K:353:ILE:HG22	2:K:353:ILE:O	2.16	0.45
2:K:289:ILE:HD12	2:K:472:THR:OG1	2.16	0.45
2:K:805:MET:HE2	2:K:805:MET:HB3	1.77	0.45
2:L:1464:LEU:HD11	2:L:1468:ARG:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1589:PRO:HB2	2:L:1596:PHE:HB3	1.97	0.45
2:L:2053:GLU:HG3	2:L:2053:GLU:H	1.47	0.45
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.98	0.45
2:L:420:PRO:HB2	2:L:423:GLN:HB2	1.98	0.45
2:L:80:ILE:HG12	2:L:105:ILE:HG22	1.99	0.45
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.99	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.98	0.45
1:A:1504:ARG:NH2	1:A:1545:LEU:O	2.50	0.45
1:A:28:TRP:CE2	1:A:53:LEU:HD22	2.52	0.45
1:A:628:TYR:C	1:A:628:TYR:HD1	2.20	0.45
1:A:670:LEU:CD1	1:A:680:VAL:HG21	2.47	0.45
1:B:983:GLN:O	1:B:1418:ILE:HD11	2.17	0.45
1:B:1475:GLU:HB3	1:B:1479:ARG:NH2	2.32	0.45
1:B:999:LEU:HD11	1:B:1575:ASN:CB	2.46	0.45
1:C:1019:LYS:HB2	1:C:1019:LYS:HE3	1.69	0.45
1:C:1154:LEU:HD23	1:C:1154:LEU:HA	1.79	0.45
1:C:1522:PHE:HE2	1:C:1535:SER:HA	1.82	0.45
1:C:1586:VAL:CG2	1:C:1617:ILE:HD11	2.46	0.45
1:C:1378:ILE:HD11	1:C:1642:LEU:HB2	1.98	0.45
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.98	0.45
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.17	0.45
1:D:1475:GLU:HB3	1:D:1479:ARG:NH2	2.32	0.45
1:D:1522:PHE:HE2	1:D:1535:SER:HA	1.82	0.45
1:D:414:TYR:C	1:D:414:TYR:CD2	2.90	0.45
1:D:501:ASP:HB2	1:D:505:ASN:HB2	1.99	0.45
1:E:1467:LEU:O	1:E:1471:THR:HG23	2.17	0.45
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.16	0.45
1:F:1673:LEU:HD23	1:F:1673:LEU:HA	1.82	0.45
1:F:689:ARG:NH2	1:F:1591:ASN:HD21	2.15	0.45
2:G:1146:LEU:O	2:G:1201:GLY:HA2	2.17	0.45
2:G:1156:ASP:CB	2:G:1159:SER:H	2.22	0.45
2:G:192:THR:O	2:G:194:PRO:HD3	2.17	0.45
2:G:289:ILE:HG21	2:G:493:MET:CE	2.47	0.45
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.45
2:G:786:GLU:CD	2:G:786:GLU:H	2.18	0.45
2:H:102:LEU:O	2:H:106:LEU:HG	2.17	0.45
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.99	0.45
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.17	0.45
2:H:1456:LEU:HD23	2:H:1457:HIS:N	2.31	0.45
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.30	0.45
2:I:1141:LYS:CE	2:I:1143:SER:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1361:ILE:HD11	2:I:1433:PHE:CD2	2.52	0.45
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.98	0.45
2:I:170:TYR:CD2	2:I:507:PHE:HB3	2.51	0.45
2:I:1804:GLN:O	2:I:1861:PHE:HD1	1.99	0.45
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.30	0.45
2:I:276:LEU:HD13	2:I:466:VAL:HG21	1.98	0.45
2:I:401:LEU:HD22	2:I:405:LEU:HG	1.98	0.45
2:I:731:ALA:HA	2:I:739:ILE:HD12	1.98	0.45
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.16	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.79	0.45
1:D:1037:ASN:HD21	2:J:1011:GLN:HG2	1.82	0.45
2:J:250:PHE:CD2	2:J:287:GLN:HG3	2.52	0.45
2:J:350:MET:HE3	2:J:435:ILE:HD12	1.99	0.45
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.98	0.45
2:J:674:ILE:HB	2:J:675:PRO:HD3	1.99	0.45
2:J:868:LEU:HD13	2:J:1068:GLN:HG3	1.97	0.45
2:J:888:ARG:HD3	2:J:891:ARG:NH1	2.32	0.45
2:K:867:LYS:CD	2:K:1065:CYS:SG	3.02	0.45
2:K:1183:GLN:HB2	2:K:1278:MET:CE	2.46	0.45
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.45	0.45
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.80	0.45
2:K:740:ILE:N	2:K:740:ILE:HD12	2.31	0.45
2:L:38:PRO:CD	2:L:104:LEU:HD11	2.42	0.45
2:L:1299:VAL:O	2:L:1301:PHE:HD2	2.00	0.45
2:L:1483:LEU:CD2	2:L:1525:VAL:HG11	2.47	0.45
2:L:1250:ARG:CZ	2:L:1592:VAL:HG12	2.46	0.45
2:L:2017:PHE:HE2	2:L:2021:LEU:HD11	1.81	0.45
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.80	0.45
2:L:353:ILE:O	2:L:353:ILE:HG22	2.16	0.45
2:L:460:ILE:O	2:L:485:ASP:HA	2.17	0.45
2:L:740:ILE:HD12	2:L:740:ILE:N	2.32	0.45
2:L:737:PHE:O	2:L:773:ASN:HB3	2.17	0.45
2:L:868:LEU:HA	2:L:868:LEU:HD12	1.71	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:HD13	1.97	0.45
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.81	0.45
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.31	0.45
1:A:653:LYS:HD3	1:A:742:TYR:CE2	2.52	0.45
1:B:1212:TYR:CD2	1:B:1371:MET:HG2	2.52	0.45
1:B:358:PHE:C	1:B:358:PHE:CD2	2.90	0.45
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.98	0.45
1:B:921:GLU:HG3	1:B:922:ILE:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1159:LEU:HD12	1:C:1327:ALA:HB3	1.98	0.45
1:C:631:LYS:O	1:C:635:ILE:HG13	2.17	0.45
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.98	0.45
1:D:1050:TRP:CE3	1:D:1050:TRP:HA	2.52	0.45
1:D:1473:HIS:C	1:D:1473:HIS:ND1	2.70	0.45
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.64	0.45
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.45	0.45
1:E:1640:LYS:CG	1:E:1641:TYR:CD1	3.00	0.45
1:E:28:TRP:CZ2	1:E:53:LEU:HD22	2.51	0.45
1:E:458:GLU:H	1:E:458:GLU:CD	2.20	0.45
1:F:1213:VAL:HG13	1:F:1217:GLU:OE1	2.17	0.45
1:F:995:VAL:HG13	1:F:1375:ILE:HG23	1.99	0.45
1:C:1682:LYS:HB3	1:F:1389:ILE:HD13	1.98	0.45
1:F:1544:HIS:O	1:F:1544:HIS:CD2	2.70	0.45
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.98	0.45
1:F:631:LYS:O	1:F:635:ILE:HG13	2.17	0.45
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.98	0.45
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.98	0.45
2:G:1084:LYS:O	2:G:1088:ASP:HB2	2.16	0.45
2:G:580:LEU:HD12	2:G:1103:TYR:CD2	2.51	0.45
2:G:1335:PHE:N	2:G:1335:PHE:CD1	2.84	0.45
2:G:1650:THR:O	2:G:1669:ALA:HA	2.16	0.45
1:A:47:ILE:HD12	2:G:1694:PHE:HE1	1.81	0.45
2:G:321:ARG:HE	2:G:450:HIS:HB3	1.80	0.45
2:G:458:MET:C	2:G:459:LYS:HG3	2.37	0.45
2:H:1120:ILE:CD1	2:H:1169:TYR:CE1	2.98	0.45
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.99	0.45
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.31	0.45
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.32	0.45
2:H:1348:PHE:CE1	2:H:1351:VAL:HG11	2.52	0.45
2:H:555:LYS:HB3	2:H:556:PRO:HD3	1.99	0.45
2:I:1507:VAL:O	2:I:1531:GLU:HA	2.16	0.45
2:I:465:LEU:HB2	2:I:479:ARG:HG2	1.97	0.45
2:I:792:LEU:O	2:I:792:LEU:HD12	2.16	0.45
2:J:102:LEU:O	2:J:106:LEU:HG	2.16	0.45
2:J:823:HIS:HB3	2:J:1051:GLU:HG3	1.99	0.45
2:J:1175:MET:CE	2:J:1192:LEU:HD11	2.45	0.45
2:J:208:LEU:HA	2:J:211:LEU:HD12	1.97	0.45
2:J:641:MET:CE	2:J:676:LEU:HD12	2.47	0.45
2:J:699:ILE:H	2:J:699:ILE:CD1	2.30	0.45
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1451:GLU:HG3	2:K:1541:ILE:HD11	1.98	0.45
2:K:1334:ALA:HB3	2:K:1629:ILE:HD11	1.98	0.45
2:L:1452:VAL:O	2:L:1454:MET:HG3	2.16	0.45
2:L:1896:THR:CG2	2:L:1897:GLU:N	2.80	0.45
1:F:29:ILE:N	2:L:1920:TYR:O	2.50	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.71	0.45
2:L:980:LEU:HD21	2:L:986:LEU:HD21	1.99	0.45
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.16	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:OE1	2.17	0.45
1:A:1406:GLU:OE2	1:A:1504:ARG:NH1	2.49	0.45
1:A:557:ARG:O	1:F:557:ARG:HD2	2.17	0.45
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.16	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
1:C:1264:MET:O	1:F:1389:ILE:HG23	2.16	0.45
1:C:511:VAL:HG12	1:C:512:PRO:HD2	1.99	0.45
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.98	0.45
1:D:532:ILE:CD1	1:D:866:LEU:O	2.64	0.45
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.98	0.45
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.47	0.45
1:E:1560:TYR:CE2	1:E:1589:ASN:HA	2.52	0.45
1:E:918:LEU:O	1:E:921:GLU:HG3	2.17	0.45
1:E:957:THR:HG22	2:K:968:GLU:HG3	1.98	0.45
1:F:1386:THR:HG22	1:F:1387:ASP:H	1.82	0.45
1:F:1444:GLN:O	1:F:1447:VAL:HB	2.17	0.45
1:F:1580:VAL:HG22	1:F:1585:ILE:O	2.16	0.45
1:F:501:ASP:HB2	1:F:505:ASN:HB2	1.98	0.45
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.52	0.45
1:F:869:ARG:O	1:F:903:GLY:HA3	2.17	0.45
1:F:991:ASP:HA	1:F:1364:THR:CG2	2.47	0.45
2:G:1103:TYR:O	2:G:1106:LYS:HB2	2.17	0.45
2:G:1206:ILE:O	2:G:1209:PRO:HG3	2.17	0.45
2:G:1410:GLY:HA2	2:G:1437:GLY:O	2.17	0.45
2:G:1521:GLU:OE1	2:G:1521:GLU:HA	2.17	0.45
2:G:228:LEU:O	2:G:232:HIS:CD2	2.69	0.45
2:G:444:LEU:HD23	2:G:444:LEU:HA	1.77	0.45
2:G:612:THR:CG2	2:G:629:GLU:O	2.65	0.45
2:G:649:GLU:HG3	2:G:650:LYS:HG3	1.99	0.45
2:H:159:PHE:CD2	2:H:169:ILE:HD12	2.52	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.74	0.45
1:B:31:THR:HG23	2:H:2040:ILE:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1359:LYS:N	2:I:1360:PRO:CD	2.80	0.45
2:I:2062:THR:HG22	2:I:2064:SER:N	2.32	0.45
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.98	0.45
2:J:911:GLN:HE21	2:J:1064:THR:HG23	1.82	0.45
2:J:1106:LYS:HB2	2:J:1109:ASN:ND2	2.32	0.45
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.75	0.45
2:J:211:LEU:HB3	2:J:316:PHE:CZ	2.51	0.45
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.47	0.45
2:J:737:PHE:O	2:J:773:ASN:HB3	2.17	0.45
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.47	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.17	0.45
2:K:1108:GLU:HG3	2:K:1108:GLU:H	1.58	0.45
2:K:141:TYR:HA	2:K:144:ARG:HB3	1.98	0.45
2:K:208:LEU:HA	2:K:211:LEU:HD12	1.98	0.45
2:K:771:CYS:HB3	2:K:774:ILE:CD1	2.43	0.45
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.45
2:L:1106:LYS:HB2	2:L:1109:ASN:ND2	2.31	0.45
2:J:1338:ARG:HH22	2:L:327:PRO:N	2.13	0.45
2:L:381:SER:HB2	2:L:440:HIS:HB2	1.99	0.45
2:L:440:HIS:CD2	2:L:499:VAL:CG2	2.99	0.45
1:A:1209:PHE:CZ	1:A:1301:VAL:HG21	2.51	0.45
1:A:1522:PHE:HE2	1:A:1535:SER:HA	1.81	0.45
1:A:1580:VAL:HG22	1:A:1585:ILE:O	2.17	0.45
1:A:1586:VAL:CG2	1:A:1617:ILE:HD11	2.47	0.45
1:A:438:ASN:O	1:A:705:ARG:HG2	2.17	0.45
1:B:1170:ALA:HB3	1:B:1188:LEU:HD13	1.98	0.45
1:B:1622:VAL:O	1:B:1622:VAL:HG13	2.17	0.45
1:B:414:TYR:CD2	1:B:414:TYR:C	2.91	0.45
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.99	0.45
1:C:1071:TYR:C	1:C:1071:TYR:CD2	2.90	0.45
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.99	0.45
1:B:1388:LYS:HD3	1:D:1692:GLN:HE22	1.82	0.45
1:D:648:LEU:HD12	1:D:649:THR:N	2.32	0.45
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.98	0.45
1:E:1083:PRO:HB3	1:E:1089:TYR:O	2.17	0.45
1:E:29:ILE:HD11	2:K:1922:VAL:CA	2.47	0.45
1:E:427:ARG:O	1:E:430:VAL:HB	2.17	0.45
1:E:541:VAL:O	1:E:545:LEU:HG	2.16	0.45
1:F:1014:MET:O	1:F:1590:ARG:NH2	2.32	0.45
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.99	0.45
2:G:1028:VAL:HG22	2:G:1030:PHE:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1236:LEU:O	2:G:1237:VAL:HG23	2.16	0.45
2:G:1587:TYR:O	2:G:1588:ASN:C	2.54	0.45
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.47	0.45
2:G:298:ALA:HB2	2:G:304:PHE:HA	1.99	0.45
2:G:663:ILE:H	2:G:663:ILE:CD1	2.23	0.45
2:H:1402:ASN:O	2:H:1403:ALA:HB2	2.17	0.45
2:H:1555:VAL:HG12	2:H:1555:VAL:O	2.16	0.45
2:H:420:PRO:HB2	2:H:423:GLN:HB2	1.99	0.45
2:H:607:GLY:HA2	2:H:612:THR:HG21	1.97	0.45
2:H:612:THR:HG21	2:H:629:GLU:O	2.17	0.45
2:I:1179:GLU:CD	2:I:1179:GLU:N	2.62	0.45
2:I:1818:PHE:HE2	2:I:1822:ARG:NH1	2.13	0.45
2:I:664:TYR:CD1	2:I:670:MET:HE1	2.52	0.45
2:I:859:SER:CB	2:I:863:GLU:HG3	2.47	0.45
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.99	0.45
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.79	0.45
2:J:1464:LEU:C	2:J:1464:LEU:HD13	2.37	0.45
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.16	0.45
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.44	0.45
2:J:663:ILE:N	2:J:663:ILE:HD12	2.31	0.45
2:K:868:LEU:HD23	2:K:1066:ILE:HD12	1.99	0.45
2:K:1362:PHE:O	2:K:1363:PRO:O	2.35	0.45
2:K:196:PHE:HD2	2:K:266:LYS:CB	2.29	0.45
2:K:27:THR:HG22	2:K:32:GLU:CD	2.37	0.45
2:K:336:LEU:C	2:K:336:LEU:HD23	2.36	0.45
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.81	0.45
2:K:910:PHE:HD2	2:K:912:LYS:H	1.64	0.45
2:L:868:LEU:HD13	2:L:1068:GLN:HG3	1.98	0.45
2:L:1631:ARG:NH2	2:L:1688:PRO:HA	2.32	0.45
2:L:179:ILE:HG12	2:L:182:TYR:HB3	1.98	0.45
2:L:1766:PHE:CE1	2:L:1869:VAL:HB	2.52	0.45
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.46	0.45
2:L:356:LEU:HA	2:L:356:LEU:HD23	1.65	0.45
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.17	0.45
2:L:712:ARG:O	2:L:738:PRO:HG2	2.16	0.45
2:L:888:ARG:HD3	2:L:891:ARG:NH1	2.31	0.45
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.52	0.45
1:A:683:THR:HB	1:A:714:PHE:CB	2.42	0.45
1:B:1432:ILE:HD11	1:B:1481:GLN:CB	2.46	0.45
1:B:1457:GLU:H	1:B:1457:GLU:HG3	1.41	0.45
1:B:1565:PRO:CG	1:B:1572:TRP:CZ3	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:574:ILE:H	1:B:574:ILE:HG12	1.58	0.45
1:B:948:HIS:O	1:B:952:TYR:HD2	2.00	0.45
1:C:1359:VAL:CG1	1:C:1360:GLN:N	2.80	0.45
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.47	0.45
1:D:973:TRP:CD1	1:D:1648:LYS:HD2	2.52	0.45
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.99	0.45
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.99	0.45
1:F:1001:GLU:C	1:F:1002:ILE:HD12	2.38	0.45
1:C:1317:GLU:CG	1:F:1250:LEU:HB2	2.43	0.45
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.82	0.45
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.52	0.45
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.36	0.45
1:F:433:CYS:SG	1:F:473:LEU:HD13	2.57	0.45
2:G:1067:LEU:HB2	3:G:2101:FMN:HM71	1.98	0.45
2:G:1266:HIS:C	2:G:1268:GLU:H	2.20	0.45
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.85	0.45
2:G:1692:TYR:O	2:G:1833:PHE:HA	2.17	0.45
2:G:170:TYR:CD2	2:G:507:PHE:HB3	2.52	0.45
2:G:489:GLU:HG2	2:G:492:ARG:CZ	2.47	0.45
2:G:73:VAL:HG13	2:G:113:PHE:HD2	1.82	0.45
2:G:785:SER:O	2:G:789:TYR:HB2	2.17	0.45
2:G:980:LEU:HB2	2:G:996:ILE:CD1	2.47	0.45
2:H:1067:LEU:HB2	3:H:2101:FMN:C7M	2.47	0.45
2:H:1372:LYS:O	2:H:1436:ARG:HG2	2.17	0.45
2:H:2062:THR:HG22	2:H:2064:SER:N	2.32	0.45
2:H:657:GLY:HA3	2:H:688:GLU:HG2	1.99	0.45
2:H:781:GLY:HA2	2:H:1071:VAL:CG1	2.38	0.45
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.50	0.45
2:I:1031:VAL:HG22	2:I:1041:TRP:HB3	1.98	0.45
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.17	0.45
2:I:1160:PHE:CE1	2:I:1164:ILE:HD11	2.52	0.45
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.17	0.45
2:I:320:LEU:O	2:I:324:GLN:HG3	2.17	0.45
2:I:506:VAL:HG22	2:I:506:VAL:O	2.16	0.45
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.47	0.45
2:I:691:THR:OG1	2:I:715:SER:HB3	2.17	0.45
2:J:1084:LYS:O	2:J:1088:ASP:HB2	2.17	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:HE2	1.82	0.45
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.47	0.45
2:J:342:ASN:CB	2:J:406:ARG:NH2	2.80	0.45
2:J:617:PHE:HE2	2:J:628:ILE:HD11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1047:LEU:O	2:K:1049:GLN:N	2.50	0.45
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.16	0.45
2:K:580:LEU:HD12	2:K:1103:TYR:CD2	2.52	0.45
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.52	0.45
2:L:1261:PHE:HA	2:L:1284:ARG:NH1	2.32	0.45
2:L:1762:MET:HG2	2:L:1779:LYS:NZ	2.32	0.45
2:L:1904:VAL:HG22	2:L:1939:LEU:CD2	2.46	0.45
2:L:857:VAL:HG11	2:L:876:TRP:NE1	2.30	0.45
2:L:942:MET:HG2	2:L:1029:PRO:HG2	1.98	0.45
1:A:1137:GLN:NE2	1:A:1137:GLN:HA	2.32	0.44
1:A:1129:ILE:HA	1:A:1139:THR:O	2.18	0.44
1:A:1343:PRO:HA	1:A:1526:SER:HA	1.99	0.44
1:A:902:ASN:O	1:A:904:GLY:N	2.46	0.44
1:B:1158:ARG:HD2	1:B:1324:THR:HB	1.99	0.44
1:B:1363:MET:HB2	1:B:1363:MET:HE2	1.77	0.44
1:C:902:ASN:C	1:C:904:GLY:H	2.19	0.44
1:D:1052:ASP:HB3	1:D:1055:THR:HG23	1.99	0.44
1:D:1444:GLN:O	1:D:1447:VAL:HB	2.18	0.44
1:D:929:ARG:O	1:D:933:ILE:HG13	2.17	0.44
1:E:1042:LEU:HD23	1:E:1042:LEU:HA	1.73	0.44
1:E:1330:GLU:CG	1:E:1333:ARG:NH1	2.78	0.44
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.43	0.44
1:E:340:LEU:HD22	1:E:351:LEU:HD11	1.98	0.44
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.52	0.44
1:E:623:PHE:N	1:E:623:PHE:HD2	2.15	0.44
1:E:995:VAL:CG1	1:E:1375:ILE:HG23	2.47	0.44
1:F:1052:ASP:HB3	1:F:1055:THR:HG23	1.98	0.44
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.48	0.44
1:F:612:ILE:HA	1:F:613:PRO:HD2	1.42	0.44
1:F:535:TYR:OH	1:F:630:LYS:HE3	2.17	0.44
1:F:673:LEU:HD21	1:F:884:MET:CE	2.47	0.44
2:G:1250:ARG:CD	2:G:1250:ARG:H	2.30	0.44
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.80	0.44
2:G:2017:PHE:HE2	2:G:2021:LEU:HD11	1.82	0.44
2:G:705:TYR:HA	2:G:709:LEU:CD2	2.47	0.44
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.46	0.44
2:H:1285:ILE:O	2:H:1288:PHE:HB3	2.17	0.44
2:H:1594:ARG:CG	2:H:1594:ARG:NH1	2.61	0.44
3:H:2101:FMN:H1'2	3:H:2101:FMN:O4'	2.16	0.44
2:H:603:VAL:HG22	2:H:810:CYS:SG	2.57	0.44
2:I:1464:LEU:HD11	2:I:1468:ARG:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:286:SER:O	2:I:494:ILE:HD11	2.17	0.44
2:J:1521:GLU:OE1	2:J:1521:GLU:HA	2.17	0.44
2:J:1650:THR:O	2:J:1669:ALA:HA	2.17	0.44
2:J:468:PRO:HD3	2:J:479:ARG:HH21	1.82	0.44
2:J:821:GLU:HG2	2:J:821:GLU:H	1.43	0.44
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.17	0.44
2:K:1626:GLU:O	2:K:1627:ASN:HB2	2.16	0.44
2:K:1723:ASP:OD1	2:K:1735:ILE:HG13	2.17	0.44
2:K:215:TRP:N	2:K:215:TRP:HE3	2.15	0.44
2:K:44:GLN:HE21	2:K:48:LEU:HD21	1.82	0.44
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.17	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.80	0.44
2:L:580:LEU:HD12	2:L:1103:TYR:CD2	2.52	0.44
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.76	0.44
2:L:1261:PHE:HE2	2:L:1285:ILE:HD11	1.83	0.44
2:L:1808:PRO:O	2:L:1812:LEU:HD23	2.17	0.44
2:L:703:ASN:O	2:L:707:GLN:HG3	2.17	0.44
2:L:731:ALA:CB	2:L:739:ILE:HD12	2.47	0.44
2:L:805:MET:HE2	2:L:805:MET:HB3	1.80	0.44
1:A:1301:VAL:HG23	1:A:1363:MET:CG	2.47	0.44
1:A:1601:GLN:HB2	1:A:1602:PHE:CD2	2.53	0.44
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.64	0.44
1:A:902:ASN:C	1:A:904:GLY:H	2.20	0.44
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.54	0.44
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.51	0.44
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.64	0.44
1:C:1591:ASN:C	1:C:1593:ASP:H	2.20	0.44
1:C:1587:PRO:HA	1:C:1611:SER:OG	2.18	0.44
1:C:1622:VAL:O	1:C:1622:VAL:HG13	2.17	0.44
1:C:450:TYR:CD1	1:C:1551:ASN:HB2	2.52	0.44
1:C:874:GLN:H	1:C:874:GLN:HG2	1.35	0.44
1:D:1168:TRP:HZ2	1:D:1192:VAL:HG11	1.83	0.44
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.17	0.44
1:E:1129:ILE:HA	1:E:1139:THR:O	2.17	0.44
1:E:1473:HIS:C	1:E:1473:HIS:ND1	2.70	0.44
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.42	0.44
1:B:755:GLU:CG	1:E:831:GLU:HG2	2.45	0.44
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.82	0.44
2:G:1489:VAL:HB	2:G:1514:LEU:HB2	2.00	0.44
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.17	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1871:VAL:CG2	2:G:2004:PRO:HD3	2.47	0.44
2:H:113:PHE:CD1	2:H:113:PHE:N	2.85	0.44
2:H:1194:ARG:HD2	2:H:1598:SER:O	2.17	0.44
2:H:192:THR:O	2:H:194:PRO:HD3	2.16	0.44
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.98	0.44
2:H:276:LEU:HD11	2:H:296:ALA:HA	1.99	0.44
2:H:356:LEU:HB3	2:H:361:VAL:HG23	1.99	0.44
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.46	0.44
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.99	0.44
2:I:1521:GLU:OE1	2:I:1521:GLU:HA	2.18	0.44
2:I:1636:HIS:O	2:I:1681:GLY:HA3	2.17	0.44
2:I:1793:TYR:CD2	2:I:1805:PHE:CZ	3.04	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HE3	2.47	0.44
2:I:1067:LEU:HB2	3:I:2101:FMN:HM71	1.98	0.44
2:I:215:TRP:HE3	2:I:215:TRP:N	2.14	0.44
2:I:336:LEU:HD23	2:I:336:LEU:C	2.38	0.44
2:I:22:ARG:CD	2:I:39:THR:HA	2.48	0.44
2:J:1204:VAL:HA	2:J:1218:SER:O	2.18	0.44
2:J:1346:MET:HB2	2:J:1427:MET:HE1	1.99	0.44
2:J:1507:VAL:O	2:J:1531:GLU:HA	2.16	0.44
2:J:342:ASN:HB2	2:J:406:ARG:NH2	2.31	0.44
2:J:613:VAL:H	2:J:614:PRO:HD3	1.80	0.44
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.83	0.44
2:K:1521:GLU:OE1	2:K:1521:GLU:HA	2.17	0.44
2:K:759:GLN:N	2:K:760:PRO:CD	2.80	0.44
2:L:1245:THR:HG23	2:L:1260:THR:OG1	2.17	0.44
2:L:129:ILE:HG21	2:L:132:LYS:HG3	1.99	0.44
2:L:1250:ARG:NH1	2:L:1592:VAL:CG1	2.80	0.44
2:L:192:THR:O	2:L:194:PRO:HD3	2.16	0.44
2:L:440:HIS:HD2	2:L:497:ASP:O	2.01	0.44
1:A:46:GLU:HB3	1:A:80:CYS:HA	2.00	0.44
1:A:929:ARG:O	1:A:933:ILE:HG13	2.16	0.44
1:B:1364:THR:CG2	1:B:1366:GLN:HB2	2.47	0.44
1:B:14:LEU:HD21	2:H:1844:LEU:HD21	1.99	0.44
1:B:973:TRP:CD1	1:B:1648:LYS:HD2	2.52	0.44
1:B:36:LEU:O	1:B:76:ARG:NH2	2.49	0.44
1:B:635:ILE:H	1:B:635:ILE:HG13	1.58	0.44
1:B:655:ALA:O	1:B:680:VAL:HA	2.17	0.44
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.18	0.44
1:C:1209:PHE:CZ	1:C:1301:VAL:HG21	2.52	0.44
1:C:1321:MET:HB3	1:C:1321:MET:HE2	1.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1491:ASN:HD22	1:C:1491:ASN:N	2.15	0.44
1:C:577:LEU:HD23	1:C:584:ILE:HG21	1.99	0.44
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.67	0.44
1:D:755:GLU:C	1:D:757:ASP:N	2.71	0.44
1:A:1150:ILE:HG12	1:E:1148:LEU:CD2	2.48	0.44
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	2.00	0.44
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.43	0.44
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	2.00	0.44
1:F:1301:VAL:HG23	1:F:1363:MET:HG3	1.98	0.44
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.87	0.44
1:F:1686:PRO:HB2	1:F:1713:PHE:CD2	2.51	0.44
1:F:533:SER:OG	1:F:611:THR:HB	2.17	0.44
2:G:1207:THR:O	2:G:1215:THR:HA	2.17	0.44
2:G:1812:LEU:HD21	2:G:1857:VAL:HG11	1.99	0.44
2:G:291:VAL:O	2:G:295:ILE:HB	2.18	0.44
2:G:740:ILE:N	2:G:740:ILE:HD12	2.33	0.44
2:H:1130:ILE:HD12	2:H:1133:LEU:HD22	1.98	0.44
2:H:1977:ARG:HD2	2:H:1978:LYS:HE3	1.99	0.44
2:H:215:TRP:HE3	2:H:216:ASP:N	2.09	0.44
2:H:376:ARG:HH21	2:I:1339:GLY:HA2	1.82	0.44
2:H:888:ARG:HD3	2:H:891:ARG:NH1	2.32	0.44
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	1.99	0.44
2:I:1977:ARG:HD2	2:I:1978:LYS:HE3	1.99	0.44
2:I:1998:LEU:HB2	2:I:2001:ILE:HD12	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.52	0.44
2:I:644:ALA:O	2:I:648:ILE:HG13	2.18	0.44
2:I:868:LEU:HD12	2:I:868:LEU:HA	1.78	0.44
2:J:870:THR:HG21	2:J:1064:THR:O	2.18	0.44
2:J:1115:TYR:CZ	2:J:1174:ALA:HB2	2.52	0.44
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.99	0.44
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.17	0.44
2:J:938:MET:CE	2:J:959:THR:HA	2.47	0.44
2:K:1146:LEU:O	2:K:1201:GLY:HA2	2.18	0.44
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.16	0.44
2:K:1694:PHE:CD2	2:K:1843:ALA:CA	2.98	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	2.00	0.44
2:K:197:VAL:HA	2:K:262:MET:HE1	2.00	0.44
2:K:26:LEU:HA	2:K:26:LEU:HD23	1.85	0.44
2:K:270:ARG:HG3	2:K:274:GLU:OE1	2.17	0.44
2:K:421:PHE:C	2:K:423:GLN:H	2.20	0.44
2:K:440:HIS:CD2	2:K:499:VAL:CG2	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:737:PHE:O	2:K:773:ASN:HB3	2.17	0.44
2:L:1404:VAL:CG2	2:L:1413:VAL:HG22	2.42	0.44
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.44
1:A:617:LEU:HD11	1:A:636:TYR:HB2	1.99	0.44
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.99	0.44
1:A:728:TYR:CE2	1:A:736:LEU:HD13	2.52	0.44
1:B:1052:ASP:HB3	1:B:1055:THR:HG23	2.00	0.44
1:B:1338:GLY:H	1:B:1340:MET:HG3	1.83	0.44
1:B:1544:HIS:CG	1:B:1544:HIS:O	2.70	0.44
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.52	0.44
1:B:831:GLU:HG2	1:E:755:GLU:CG	2.44	0.44
1:C:1038:HIS:CE1	1:C:1042:LEU:HG	2.53	0.44
1:C:995:VAL:CG1	1:C:1375:ILE:HG23	2.48	0.44
1:D:655:ALA:HB2	1:D:742:TYR:HB2	2.00	0.44
1:E:1158:ARG:HD2	1:E:1324:THR:HB	1.99	0.44
1:E:1472:GLU:O	1:E:1475:GLU:HB2	2.18	0.44
1:E:1574:LEU:O	1:E:1578:LEU:HG	2.18	0.44
1:E:490:VAL:O	1:E:490:VAL:HG12	2.17	0.44
1:F:1457:GLU:HG3	1:F:1457:GLU:H	1.41	0.44
2:G:1130:ILE:HD12	2:G:1133:LEU:HD22	1.99	0.44
2:G:1938:THR:HG22	2:G:1977:ARG:HA	2.00	0.44
2:G:196:PHE:HD2	2:G:266:LYS:CB	2.30	0.44
2:G:274:GLU:O	2:G:278:ARG:HG2	2.18	0.44
2:G:476:GLN:HG2	2:G:476:GLN:H	1.64	0.44
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.83	0.44
2:H:1412:MET:HB3	2:H:1412:MET:HE3	1.80	0.44
2:H:1521:GLU:OE1	2:H:1521:GLU:HA	2.18	0.44
2:H:1572:ARG:HG2	2:H:1647:ASP:O	2.17	0.44
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.46	0.44
2:H:1932:ASP:OD2	2:H:1934:ARG:HD2	2.17	0.44
2:H:196:PHE:O	2:H:262:MET:HE1	2.17	0.44
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.80	0.44
2:H:834:ASP:O	2:H:836:PRO:HD3	2.18	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.98	0.44
2:I:1265:TYR:CE2	2:I:1267:PRO:HG3	2.52	0.44
2:I:1266:HIS:CD2	2:I:1266:HIS:N	2.86	0.44
2:I:1301:PHE:HD1	2:I:1364:ARG:HG2	1.83	0.44
2:I:161:ALA:HA	2:I:164:GLU:HB2	2.00	0.44
1:C:24:MET:HE2	2:I:2043:VAL:HG13	1.99	0.44
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.16	0.44
2:I:357:THR:HG22	2:I:359:SER:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.17	0.44
2:J:957:LYS:HE2	2:J:1022:ARG:HH22	1.81	0.44
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.17	0.44
2:J:1248:GLU:HB2	2:J:1596:PHE:CE1	2.52	0.44
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	2.00	0.44
2:J:930:THR:HG23	2:J:933:GLU:H	1.80	0.44
2:K:113:PHE:N	2:K:113:PHE:CD1	2.84	0.44
2:K:1261:PHE:HA	2:K:1284:ARG:NH1	2.33	0.44
2:K:1346:MET:HG2	2:K:1617:ARG:NH2	2.33	0.44
2:K:1496:VAL:HG23	2:K:1507:VAL:HG12	2.00	0.44
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.63	0.44
2:K:381:SER:HB2	2:K:440:HIS:HB2	1.99	0.44
2:L:580:LEU:CD2	2:L:1095:ILE:HG22	2.47	0.44
2:L:1382:MET:HB3	2:L:1633:ARG:NH1	2.32	0.44
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.51	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.52	0.44
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.52	0.44
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.99	0.44
1:A:1001:GLU:O	1:A:1002:ILE:HD12	2.18	0.44
1:A:1086:PHE:CZ	1:A:1310:PHE:HD2	2.35	0.44
1:A:1447:VAL:HG21	1:A:1467:LEU:HD11	2.00	0.44
1:A:1544:HIS:O	1:A:1544:HIS:CD2	2.71	0.44
1:A:414:TYR:CE2	1:A:418:ILE:CD1	3.00	0.44
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.98	0.44
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.18	0.44
1:B:1273:ILE:HG13	1:B:1273:ILE:O	2.17	0.44
1:B:577:LEU:CD2	1:B:584:ILE:HG21	2.47	0.44
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	2.00	0.44
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.47	0.44
1:D:1294:ILE:HD11	1:D:1302:CYS:HB3	1.99	0.44
1:B:1388:LYS:HD3	1:D:1692:GLN:NE2	2.33	0.44
1:D:36:LEU:O	1:D:76:ARG:NH2	2.49	0.44
1:D:539:THR:O	1:D:542:GLN:HG2	2.18	0.44
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.77	0.44
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.81	0.44
1:E:628:TYR:CD1	1:E:628:TYR:C	2.90	0.44
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.98	0.44
1:C:1149:LEU:HD12	1:F:1097:LEU:HD13	1.98	0.44
1:F:967:PHE:CE2	1:F:1374:PRO:HG3	2.52	0.44
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.43	0.44
2:G:357:THR:HG22	2:G:359:SER:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:440:HIS:CD2	2:G:499:VAL:CG2	3.00	0.44
2:G:615:TRP:HA	2:G:618:VAL:CG1	2.47	0.44
2:H:590:VAL:CG2	2:H:1091:HIS:CD2	3.00	0.44
2:H:1266:HIS:CE1	2:H:1275:ARG:CD	2.92	0.44
2:H:1335:PHE:N	2:H:1335:PHE:CD1	2.85	0.44
2:H:381:SER:HB2	2:H:440:HIS:HB2	1.98	0.44
2:H:321:ARG:HE	2:H:450:HIS:HB3	1.82	0.44
2:H:609:THR:CB	2:H:610:PRO:HD3	2.47	0.44
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.80	0.44
2:H:979:LEU:CD2	2:H:999:ALA:HB3	2.44	0.44
2:I:1350:ILE:O	2:I:1354:TRP:HB2	2.17	0.44
2:I:1558:GLU:O	2:I:1560:PRO:HD3	2.17	0.44
2:I:1896:THR:CG2	2:I:1897:GLU:N	2.80	0.44
2:I:1904:VAL:HG22	2:I:1939:LEU:CD2	2.47	0.44
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.47	0.44
2:J:1048:TRP:CE2	2:J:1049:GLN:HG2	2.52	0.44
2:J:1157:VAL:O	2:J:1161:MET:HG3	2.17	0.44
2:J:1249:GLY:HA2	2:J:1256:VAL:HG22	1.98	0.44
2:J:1325:VAL:HG22	2:J:1335:PHE:CD2	2.52	0.44
2:J:1351:VAL:HG21	2:J:1583:VAL:O	2.18	0.44
2:J:1811:THR:HG23	2:J:1842:SER:HB3	2.00	0.44
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.48	0.44
2:J:505:THR:O	2:J:507:PHE:N	2.47	0.44
2:J:762:LEU:HD11	2:J:800:PHE:CB	2.48	0.44
2:J:785:SER:O	2:J:789:TYR:HB2	2.16	0.44
2:J:894:GLU:O	2:J:897:LYS:HG2	2.17	0.44
2:J:928:ASP:C	2:J:1007:LEU:HD23	2.38	0.44
2:K:1290:TYR:CG	2:K:1299:VAL:CG1	2.92	0.44
2:K:1248:GLU:HB2	2:K:1596:PHE:CE1	2.53	0.44
2:K:1818:PHE:HE2	2:K:1822:ARG:NH1	2.16	0.44
2:K:601:PRO:HA	2:K:602:PRO:HD3	1.87	0.44
2:L:1084:LYS:O	2:L:1088:ASP:HB2	2.17	0.44
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.18	0.44
2:L:1246:LEU:O	2:L:1258:PRO:HA	2.17	0.44
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.98	0.44
2:L:1881:TYR:HB2	2:L:2004:PRO:HG3	2.00	0.44
2:L:211:LEU:HB3	2:L:316:PHE:CZ	2.51	0.44
2:L:605:VAL:HB	2:L:628:ILE:CG1	2.41	0.44
2:L:422:THR:HG23	2:L:844:GLU:OE2	2.18	0.44
1:A:718:SER:HB3	1:A:721:ASP:HB2	2.00	0.44
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:349:MET:O	1:B:349:MET:HG3	2.18	0.44
1:B:612:ILE:HA	1:B:628:TYR:HE2	1.83	0.44
1:B:631:LYS:O	1:B:635:ILE:HG13	2.17	0.44
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.70	0.44
1:C:1363:MET:HB2	1:C:1363:MET:HE2	1.72	0.44
1:C:447:PHE:HA	1:C:1550:GLY:O	2.17	0.44
1:C:612:ILE:HA	1:C:613:PRO:HD3	1.84	0.44
1:B:1386:THR:O	1:D:1270:THR:HA	2.17	0.44
1:D:1288:ASP:O	1:D:1291:TYR:HB3	2.17	0.44
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.86	0.44
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.52	0.44
1:E:1175:VAL:HA	1:E:1176:PRO:HD3	1.83	0.44
1:E:1249:ILE:HD12	1:E:1250:LEU:N	2.32	0.44
1:E:40:ARG:NH2	1:E:72:THR:HG22	2.32	0.44
1:E:929:ARG:O	1:E:933:ILE:HG13	2.18	0.44
1:F:1338:GLY:H	1:F:1340:MET:HG3	1.83	0.44
1:F:1491:ASN:HD22	1:F:1491:ASN:N	2.15	0.44
1:F:1378:ILE:HD11	1:F:1642:LEU:HB2	1.99	0.44
2:G:1269:ALA:HB1	2:G:1271:TYR:CE2	2.53	0.44
2:G:465:LEU:HA	2:G:465:LEU:HD23	1.73	0.44
2:G:117:ASN:OD1	2:G:561:ARG:HG3	2.18	0.44
2:G:783:GLY:HA2	2:G:815:ARG:HD3	1.98	0.44
2:G:821:GLU:H	2:G:821:GLU:HG2	1.39	0.44
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.45	0.44
2:H:1206:ILE:O	2:H:1209:PRO:HG3	2.18	0.44
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.48	0.44
1:B:31:THR:HG23	2:H:2040:ILE:HG21	2.00	0.44
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.52	0.44
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	1.99	0.44
2:I:1588:ASN:HD21	2:I:1590:ILE:HD12	1.83	0.44
2:I:1382:MET:HB3	2:I:1633:ARG:NH1	2.33	0.44
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.17	0.44
2:I:196:PHE:O	2:I:262:MET:HE1	2.18	0.44
2:I:990:TYR:N	2:I:991:PRO:CD	2.81	0.44
2:J:1031:VAL:HA	2:J:1032:PRO:HD3	1.65	0.44
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.38	0.44
2:J:189:ILE:HD12	2:J:256:VAL:HG13	1.99	0.44
2:J:737:PHE:HA	2:J:738:PRO:HD3	1.83	0.44
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.00	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:914:TRP:CD1	2:J:916:GLY:CA	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.47	0.44
2:K:1250:ARG:H	2:K:1250:ARG:CD	2.29	0.44
2:K:1266:HIS:N	2:K:1266:HIS:CD2	2.85	0.44
2:K:1456:LEU:HD23	2:K:1457:HIS:N	2.32	0.44
2:K:1637:VAL:CG1	2:K:1679:LEU:HD22	2.48	0.44
2:K:1690:THR:HG22	2:K:1691:ALA:N	2.32	0.44
2:K:1700:GLN:HG2	2:K:1700:GLN:O	2.18	0.44
2:K:1947:LYS:HG3	2:K:1948:MET:HE2	1.98	0.44
2:K:1953:ILE:O	2:K:1957:MET:HG2	2.17	0.44
2:K:1863:ARG:HB2	2:K:2017:PHE:HE1	1.83	0.44
2:K:1851:MET:HE1	2:K:2024:LYS:HB3	2.00	0.44
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.48	0.44
2:K:68:GLU:HB3	2:K:69:PRO:HD2	2.00	0.44
2:K:787:ASP:O	2:K:790:PRO:HD2	2.18	0.44
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.99	0.44
2:L:1093:ASP:O	2:L:1097:PHE:HB2	2.17	0.44
2:L:1316:VAL:HG13	2:L:1348:PHE:CE2	2.52	0.44
2:L:1507:VAL:O	2:L:1531:GLU:HA	2.18	0.44
2:L:468:PRO:HB3	2:L:477:ASP:OD2	2.17	0.44
2:L:674:ILE:HB	2:L:675:PRO:HD3	2.00	0.44
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.18	0.44
2:L:821:GLU:H	2:L:821:GLU:HG2	1.43	0.44
2:L:932:ALA:O	2:L:935:VAL:HG13	2.17	0.44
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.82	0.44
1:A:1457:GLU:HG3	1:A:1457:GLU:H	1.37	0.44
1:A:1491:ASN:HD22	1:A:1491:ASN:N	2.16	0.44
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.65	0.44
1:A:679:LYS:HG2	1:A:708:GLN:CB	2.42	0.44
1:A:869:ARG:O	1:A:903:GLY:HA3	2.17	0.44
1:A:921:GLU:HG3	1:A:922:ILE:H	1.83	0.44
1:A:992:LYS:HE2	1:E:1495:ARG:NH1	2.32	0.44
1:B:1232:LEU:HD21	1:D:1232:LEU:HD11	2.00	0.44
1:B:1467:LEU:O	1:B:1471:THR:HG23	2.18	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.18	0.44
1:B:689:ARG:HH21	1:B:1591:ASN:ND2	2.16	0.44
1:C:1097:LEU:HD13	1:F:1149:LEU:HD12	1.99	0.44
1:C:1137:GLN:NE2	1:C:1137:GLN:HA	2.33	0.44
1:C:72:THR:O	1:C:73:SER:HB3	2.18	0.44
1:D:1129:ILE:HA	1:D:1139:THR:O	2.18	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.77	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1565:PRO:CG	1:E:1572:TRP:CZ3	2.99	0.44
1:E:36:LEU:O	1:E:76:ARG:NH2	2.49	0.44
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.17	0.44
1:F:30:GLU:HG3	1:F:30:GLU:H	1.53	0.44
1:F:667:ALA:O	1:F:670:LEU:HB3	2.18	0.44
1:F:718:SER:HB3	1:F:721:ASP:HB2	1.98	0.44
1:F:75:GLN:NE2	2:K:335:THR:HG23	2.33	0.44
2:G:1333:GLU:HG3	2:G:1338:ARG:HD2	1.99	0.44
2:G:1426:VAL:HG12	2:G:1427:MET:HG2	1.99	0.44
2:G:1496:VAL:HG23	2:G:1507:VAL:HG12	2.00	0.44
2:G:1886:VAL:HG11	2:G:1900:LEU:HD11	2.00	0.44
2:H:1047:LEU:O	2:H:1049:GLN:N	2.51	0.44
2:H:1250:ARG:CD	2:H:1250:ARG:H	2.31	0.44
2:H:120:HIS:CD2	2:H:137:VAL:HG11	2.52	0.44
2:H:1588:ASN:HD21	2:H:1590:ILE:HD12	1.83	0.44
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.44
2:I:1236:LEU:O	2:I:1237:VAL:HG23	2.18	0.44
2:I:190:TYR:CE1	2:I:201:ILE:HG21	2.52	0.44
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.16	0.44
2:I:1933:LEU:O	2:I:1989:LEU:HD11	2.18	0.44
2:I:22:ARG:HD2	2:I:42:HIS:CB	2.47	0.44
2:H:43:PHE:HD2	2:I:22:ARG:HG2	1.75	0.44
2:H:43:PHE:CD2	2:I:22:ARG:NE	2.85	0.44
2:I:485:ASP:HB2	2:I:488:PRO:HD2	1.93	0.44
2:I:605:VAL:HG22	2:I:816:MET:HG3	1.98	0.44
2:I:938:MET:CE	2:I:959:THR:HA	2.48	0.44
2:I:980:LEU:HB2	2:I:996:ILE:CD1	2.48	0.44
2:J:1383:VAL:HG13	2:J:1384:PRO:HD2	2.00	0.44
2:J:759:GLN:N	2:J:760:PRO:CD	2.81	0.44
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	3.06	0.44
2:K:118:ASP:OD2	2:K:559:PHE:HB2	2.18	0.44
2:K:1335:PHE:N	2:K:1335:PHE:HD1	2.15	0.44
2:K:137:VAL:O	2:K:141:TYR:HD1	2.00	0.44
1:E:22:PHE:O	2:K:2010:LEU:HD12	2.18	0.44
2:K:251:PRO:HG3	2:K:316:PHE:N	2.32	0.44
2:K:271:GLU:HG2	2:K:301:TRP:NE1	2.33	0.44
2:K:36:LEU:HD23	2:K:36:LEU:HA	1.77	0.44
2:K:342:ASN:HB2	2:K:406:ARG:NH2	2.32	0.44
2:K:485:ASP:HB2	2:K:488:PRO:HD2	1.95	0.44
2:K:895:LEU:HD13	2:K:1034:LEU:HB3	2.00	0.44
2:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:788:THR:CG2	2:L:1094:HIS:CE1	3.01	0.44
2:L:1412:MET:HE3	2:L:1412:MET:HB3	1.83	0.44
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.17	0.44
2:L:1915:LEU:HD13	2:L:1936:LEU:HD22	1.99	0.44
2:L:215:TRP:HE3	2:L:216:ASP:N	2.09	0.44
2:L:452:LEU:HD21	2:L:488:PRO:HA	1.98	0.44
1:A:1185:PRO:O	1:A:1188:LEU:HB2	2.18	0.44
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.43	0.44
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.74	0.44
1:B:1287:LEU:HA	1:B:1304:VAL:HG11	1.99	0.44
1:B:1581:LEU:HD13	1:B:1638:HIS:HA	1.99	0.44
1:B:759:ILE:O	1:E:776:ARG:NH1	2.48	0.44
1:B:871:PHE:N	1:B:871:PHE:CD1	2.86	0.44
1:C:1544:HIS:O	1:C:1544:HIS:CG	2.69	0.44
1:C:21:GLN:O	2:I:2006:HIS:HD2	2.00	0.44
1:C:26:VAL:HG21	2:I:2006:HIS:CE1	2.52	0.44
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.99	0.44
1:D:1001:GLU:O	1:D:1002:ILE:HD12	2.18	0.44
1:D:421:ARG:HH22	1:D:1613:LYS:HG3	1.81	0.44
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.52	0.44
1:D:792:THR:HB	2:I:1748:HIS:O	2.17	0.44
1:E:689:ARG:NH1	1:E:1339:GLU:OE2	2.50	0.44
1:F:1647:ASP:C	1:F:1649:ALA:N	2.68	0.44
1:F:859:VAL:O	1:F:863:VAL:HG23	2.18	0.44
2:G:1199:THR:HB	2:G:1202:MET:HB3	1.99	0.44
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	2.00	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.32	0.44
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.99	0.44
2:H:1123:ALA:HB3	2:H:1126:GLU:HG3	1.99	0.44
2:H:2017:PHE:HE2	2:H:2021:LEU:HD11	1.83	0.44
2:H:1851:MET:HE1	2:H:2024:LYS:HB3	1.98	0.44
2:H:196:PHE:HD2	2:H:266:LYS:CB	2.30	0.44
2:H:26:LEU:HD23	2:H:26:LEU:HA	1.86	0.44
2:H:595:SER:CB	2:H:602:PRO:HG3	2.32	0.44
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.41	0.44
2:I:1106:LYS:HB2	2:I:1109:ASN:ND2	2.33	0.44
2:I:1305:LEU:HD23	2:I:1366:ILE:HD11	2.00	0.44
2:I:1372:LYS:O	2:I:1436:ARG:HG2	2.18	0.44
2:I:1953:ILE:O	2:I:1957:MET:HG2	2.17	0.44
2:I:36:LEU:HA	2:I:36:LEU:HD23	1.76	0.44
2:I:740:ILE:HD12	2:I:740:ILE:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:914:TRP:O	2:I:916:GLY:N	2.45	0.44
2:I:957:LYS:HE2	2:I:1022:ARG:HH22	1.82	0.44
2:J:590:VAL:CG2	2:J:1091:HIS:CD2	2.99	0.44
2:J:170:TYR:CD2	2:J:507:PHE:HB3	2.53	0.44
2:J:182:TYR:CD1	2:J:183:PHE:N	2.85	0.44
2:J:291:VAL:O	2:J:295:ILE:HB	2.16	0.44
2:J:615:TRP:CE3	2:J:647:LYS:HB3	2.53	0.44
2:K:1558:GLU:O	2:K:1560:PRO:HD3	2.18	0.44
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.48	0.44
2:K:1901:GLN:HB3	2:K:1905:GLU:OE2	2.18	0.44
3:K:2101:FMN:H1'2	3:K:2101:FMN:H9	1.80	0.44
2:K:253:ILE:HB	2:K:287:GLN:NE2	2.33	0.44
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.85	0.44
2:K:444:LEU:HA	2:K:444:LEU:HD23	1.73	0.44
2:K:762:LEU:HD11	2:K:800:PHE:CB	2.48	0.44
2:K:870:THR:HG21	2:K:1064:THR:O	2.18	0.44
2:K:872:GLY:HA2	2:K:909:ASP:O	2.18	0.44
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.82	0.44
2:L:120:HIS:CD2	2:L:137:VAL:HG11	2.53	0.44
2:L:128:GLY:HA2	2:L:133:LYS:NZ	2.33	0.44
2:L:1374:VAL:CG2	2:L:1436:ARG:NE	2.80	0.44
2:L:196:PHE:O	2:L:262:MET:HE1	2.17	0.44
2:L:1977:ARG:CD	2:L:1978:LYS:HE3	2.47	0.44
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.81	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44
2:L:401:LEU:HD22	2:L:405:LEU:HG	1.99	0.44
1:A:1363:MET:HB2	1:A:1363:MET:HE2	1.65	0.44
1:A:21:GLN:HB3	1:A:21:GLN:HE21	1.57	0.44
1:B:991:ASP:HA	1:B:1364:THR:CG2	2.48	0.44
1:A:1143:ARG:HH21	1:B:356:LYS:NZ	2.16	0.44
1:B:454:HIS:CD2	1:B:454:HIS:N	2.86	0.44
1:C:901:LEU:N	1:C:901:LEU:HD23	2.33	0.44
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.53	0.44
1:D:1591:ASN:C	1:D:1593:ASP:H	2.20	0.44
1:D:1601:GLN:HB2	1:D:1602:PHE:CD2	2.53	0.44
1:D:414:TYR:O	1:D:418:ILE:HG13	2.17	0.44
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.53	0.44
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.33	0.44
1:F:1078:ILE:HB	1:F:1338:GLY:HA3	1.96	0.44
1:F:1158:ARG:HD2	1:F:1324:THR:HB	1.99	0.44
1:F:1185:PRO:O	1:F:1188:LEU:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1467:LEU:O	1:F:1471:THR:HG23	2.18	0.44
1:F:655:ALA:O	1:F:680:VAL:HA	2.18	0.44
1:F:72:THR:O	1:F:73:SER:HB3	2.18	0.44
2:G:1335:PHE:N	2:G:1335:PHE:HD1	2.16	0.44
2:G:1338:ARG:NH1	2:I:326:TYR:CE2	2.86	0.44
2:G:1353:GLY:CA	2:G:1397:THR:HG21	2.44	0.44
2:G:27:THR:HG22	2:G:32:GLU:HG2	2.00	0.44
2:G:943:TYR:OH	2:G:948:LYS:HA	2.18	0.44
2:H:1175:MET:CE	2:H:1192:LEU:HD11	2.48	0.44
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	2.00	0.44
2:H:289:ILE:HG21	2:H:493:MET:CE	2.48	0.44
2:H:894:GLU:O	2:H:897:LYS:HG2	2.17	0.44
2:I:1207:THR:O	2:I:1215:THR:HA	2.18	0.44
2:I:1404:VAL:CG2	2:I:1413:VAL:HG22	2.44	0.44
2:I:505:THR:O	2:I:505:THR:CG2	2.66	0.44
2:I:580:LEU:HD12	2:I:1103:TYR:CD2	2.53	0.44
2:I:657:GLY:HA3	2:I:688:GLU:HG2	2.00	0.44
2:I:796:TRP:CG	2:I:797:SER:N	2.85	0.44
2:J:1265:TYR:CE2	2:J:1267:PRO:HG3	2.51	0.44
2:J:1325:VAL:HG22	2:J:1335:PHE:HD2	1.82	0.44
2:J:1588:ASN:HA	2:J:1589:PRO:HD3	1.87	0.44
2:J:286:SER:OG	2:J:440:HIS:NE2	2.50	0.44
2:J:657:GLY:HA3	2:J:688:GLU:HG2	2.00	0.44
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.53	0.44
2:K:1199:THR:HG22	2:K:1200:ARG:N	2.33	0.44
2:K:376:ARG:NH2	2:L:1339:GLY:HA2	2.33	0.44
2:K:452:LEU:HD21	2:K:488:PRO:HA	1.99	0.44
2:K:858:LEU:HD23	2:K:864:PRO:HA	2.00	0.44
2:K:752:HIS:CD2	2:K:866:HIS:ND1	2.86	0.44
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.18	0.44
2:L:1175:MET:CE	2:L:1192:LEU:HD11	2.46	0.44
2:L:1362:PHE:O	2:L:1363:PRO:O	2.36	0.44
2:L:1587:TYR:O	2:L:1588:ASN:C	2.55	0.44
2:L:1851:MET:HE2	2:L:1851:MET:HB3	1.91	0.44
2:L:2062:THR:HG22	2:L:2064:SER:N	2.33	0.44
2:L:258:LEU:CD1	2:L:291:VAL:HG13	2.47	0.44
2:L:872:GLY:HA2	2:L:909:ASP:O	2.18	0.44
1:A:1695:VAL:HG11	1:A:1713:PHE:CE2	2.53	0.43
1:A:511:VAL:HG12	1:A:512:PRO:HD2	2.00	0.43
1:A:739:ASP:OD2	1:A:790:TYR:CG	2.71	0.43
1:B:1592:ALA:O	1:B:1593:ASP:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ASP:HB3	1:B:353:ALA:HB2	2.00	0.43
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.82	0.43
1:B:874:GLN:HG2	1:B:874:GLN:H	1.39	0.43
1:C:490:VAL:HG12	1:C:490:VAL:O	2.18	0.43
1:D:1148:LEU:HA	1:D:1148:LEU:HD23	1.78	0.43
1:B:1389:ILE:HD13	1:D:1682:LYS:HB3	1.98	0.43
1:D:943:VAL:HG12	1:D:944:ASN:OD1	2.18	0.43
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.17	0.43
1:E:1301:VAL:HG22	1:E:1302:CYS:H	1.83	0.43
1:F:1359:VAL:CG1	1:F:1360:GLN:N	2.81	0.43
1:F:1307:PHE:CA	1:F:1568:ALA:HB2	2.48	0.43
1:F:414:TYR:CD2	1:F:414:TYR:C	2.90	0.43
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.99	0.43
1:F:484:PRO:HA	1:F:485:PRO:HD3	1.62	0.43
1:F:743:VAL:O	1:F:745:PRO:HD3	2.18	0.43
1:F:829:TYR:OH	1:F:896:PRO:HD2	2.18	0.43
2:G:868:LEU:HD13	2:G:1068:GLN:HG3	1.99	0.43
2:G:1183:GLN:HB2	2:G:1278:MET:CE	2.47	0.43
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.47	0.43
2:G:129:ILE:HG12	2:G:131:ALA:HB3	2.00	0.43
2:G:138:ARG:HB3	2:G:192:THR:HG23	1.99	0.43
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.18	0.43
2:G:208:LEU:HB3	2:G:225:LEU:HD13	1.99	0.43
2:G:289:ILE:HD12	2:G:472:THR:OG1	2.17	0.43
2:G:381:SER:HB2	2:G:440:HIS:HB2	2.00	0.43
2:G:505:THR:O	2:G:507:PHE:N	2.46	0.43
2:H:1081:GLU:H	2:H:1081:GLU:HG3	1.65	0.43
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.53	0.43
2:H:1266:HIS:N	2:H:1266:HIS:CD2	2.86	0.43
2:H:1496:VAL:HG23	2:H:1507:VAL:HG12	2.00	0.43
2:H:1587:TYR:O	2:H:1588:ASN:C	2.56	0.43
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.53	0.43
2:H:476:GLN:H	2:H:476:GLN:HG2	1.63	0.43
2:H:580:LEU:HD12	2:H:1103:TYR:CD2	2.52	0.43
2:H:641:MET:CE	2:H:676:LEU:HD12	2.48	0.43
2:H:990:TYR:N	2:H:991:PRO:CD	2.81	0.43
2:I:120:HIS:CD2	2:I:137:VAL:CG1	3.01	0.43
2:I:1709:TYR:CE2	2:I:1716:LYS:HG2	2.53	0.43
2:I:1729:ASN:HA	2:I:1757:ILE:HD13	2.00	0.43
2:I:251:PRO:HG3	2:I:316:PHE:N	2.32	0.43
2:I:172:ILE:HG22	2:I:514:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:730:ILE:O	2:I:733:ALA:HB3	2.17	0.43
2:I:988:GLU:HA	2:I:989:PRO:HD3	1.74	0.43
2:J:113:PHE:CD1	2:J:113:PHE:N	2.86	0.43
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.18	0.43
2:J:1887:ASN:ND2	2:J:1890:ARG:HG3	2.32	0.43
2:J:306:THR:O	2:J:310:ARG:HG3	2.17	0.43
2:J:890:LYS:HB2	2:J:890:LYS:HE3	1.81	0.43
2:J:990:TYR:N	2:J:991:PRO:CD	2.81	0.43
2:K:617:PHE:CZ	2:K:1083:ILE:HD12	2.53	0.43
2:K:1084:LYS:O	2:K:1088:ASP:HB2	2.18	0.43
2:K:1915:LEU:HD13	2:K:1936:LEU:HD22	2.00	0.43
2:K:196:PHE:CD2	2:K:266:LYS:CB	3.01	0.43
2:K:1881:TYR:CG	2:K:2004:PRO:HG3	2.52	0.43
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.43
2:L:1248:GLU:HA	2:L:1248:GLU:OE1	2.16	0.43
2:L:161:ALA:HB1	2:L:166:ASN:HD22	1.83	0.43
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.47	0.43
2:L:769:ARG:HD3	2:L:769:ARG:HA	1.79	0.43
1:A:1083:PRO:HB3	1:A:1089:TYR:O	2.18	0.43
1:A:1425:LEU:CD2	1:A:1429:ARG:HH21	2.16	0.43
1:A:954:ARG:HA	2:G:981:GLN:OE1	2.18	0.43
1:B:1137:GLN:NE2	1:B:1137:GLN:HA	2.32	0.43
1:B:1250:LEU:HB2	1:D:1317:GLU:CG	2.44	0.43
1:B:409:ASP:CG	1:B:701:ARG:NH1	2.72	0.43
1:B:759:ILE:HD12	1:B:759:ILE:N	2.33	0.43
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.47	0.43
1:B:869:ARG:O	1:B:903:GLY:HA3	2.18	0.43
1:C:1687:TYR:OH	1:F:1388:LYS:HB3	2.18	0.43
1:C:21:GLN:HB3	1:C:21:GLN:HE21	1.60	0.43
1:C:470:GLY:O	1:C:474:ILE:HG13	2.18	0.43
1:C:628:TYR:CD1	1:C:628:TYR:C	2.91	0.43
1:C:409:ASP:CG	1:C:701:ARG:NH1	2.71	0.43
1:C:743:VAL:O	1:C:745:PRO:HD3	2.17	0.43
1:D:1386:THR:HG22	1:D:1387:ASP:H	1.84	0.43
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.00	0.43
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.83	0.43
1:E:983:GLN:O	1:E:1418:ILE:HD11	2.19	0.43
1:E:837:LEU:HD12	1:E:837:LEU:HA	1.85	0.43
1:E:88:ILE:HG21	2:K:1821:MET:HE1	2.00	0.43
1:F:1106:LEU:HD13	1:F:1142:LEU:HD13	2.00	0.43
1:F:565:GLN:CG	1:F:565:GLN:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1259:LEU:HD11	2:G:1285:ILE:HG12	2.00	0.43
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.83	0.43
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.99	0.43
2:G:215:TRP:N	2:G:215:TRP:HE3	2.16	0.43
2:G:37:VAL:HG11	2:G:42:HIS:HA	2.00	0.43
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	2.00	0.43
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.65	0.43
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.83	0.43
2:H:27:THR:HG22	2:H:32:GLU:HG2	2.00	0.43
2:H:300:THR:O	2:H:304:PHE:HB2	2.18	0.43
2:H:462:ALA:HB3	2:H:481:LEU:O	2.18	0.43
2:H:652:ILE:CG2	2:H:656:ARG:HB2	2.47	0.43
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.17	0.43
2:H:691:THR:OG1	2:H:715:SER:HB3	2.18	0.43
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.54	0.43
2:I:1442:TYR:HA	2:I:1445:THR:CG2	2.47	0.43
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.48	0.43
2:I:200:LEU:O	2:I:204:ILE:HG13	2.18	0.43
2:J:161:ALA:HA	2:J:164:GLU:HB2	1.99	0.43
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.36	0.43
2:K:114:MET:HG2	2:K:122:ILE:HG21	2.00	0.43
2:K:1351:VAL:HG21	2:K:1583:VAL:O	2.18	0.43
2:K:1672:LYS:HG2	2:K:1672:LYS:O	2.18	0.43
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.92	0.43
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.32	0.43
2:K:221:TYR:CE2	2:K:225:LEU:HD12	2.53	0.43
2:K:270:ARG:HB3	2:K:274:GLU:HB2	2.00	0.43
2:K:37:VAL:HG11	2:K:42:HIS:HA	1.99	0.43
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.19	0.43
2:K:731:ALA:CB	2:K:739:ILE:HD12	2.48	0.43
2:K:779:GLY:HA3	2:K:811:MET:HE2	1.99	0.43
2:L:1362:PHE:N	2:L:1363:PRO:CD	2.81	0.43
2:L:1722:ALA:CB	2:L:1812:LEU:HD11	2.48	0.43
2:L:342:ASN:HD22	2:L:342:ASN:N	2.15	0.43
2:L:154:TYR:CE1	2:L:561:ARG:NH1	2.86	0.43
2:L:604:MET:HG3	2:L:627:HIS:O	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.80	0.43
2:L:879:LEU:HB3	2:L:884:PHE:CE1	2.53	0.43
1:A:389:PRO:HD3	1:F:374:LEU:HD11	2.00	0.43
1:A:72:THR:O	1:A:73:SER:HB3	2.18	0.43
1:B:1038:HIS:CE1	1:B:1042:LEU:HG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.18	0.43
1:B:1386:THR:HG22	1:B:1387:ASP:H	1.83	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:B:444:LEU:HD22	1:B:448:MET:CG	2.49	0.43
1:B:47:ILE:HD12	2:H:1818:PHE:HD1	1.83	0.43
1:B:744:VAL:HG12	1:B:746:PHE:CD1	2.53	0.43
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	1.99	0.43
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.38	0.43
1:C:444:LEU:HD22	1:C:448:MET:CG	2.47	0.43
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.17	0.43
1:B:1149:LEU:HD12	1:D:1097:LEU:CD1	2.48	0.43
1:D:1210:TYR:HA	1:D:1213:VAL:O	2.18	0.43
1:E:875:GLU:O	1:E:878:PHE:HB3	2.18	0.43
1:E:996:VAL:HG11	1:E:1578:LEU:CD1	2.48	0.43
1:A:612:ILE:CD1	1:F:579:MET:HE3	2.45	0.43
2:G:1266:HIS:C	2:G:1268:GLU:N	2.71	0.43
2:G:28:HIS:O	2:G:31:LEU:HD12	2.18	0.43
2:G:462:ALA:HB3	2:G:481:LEU:O	2.17	0.43
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.99	0.43
2:G:960:GLY:O	2:G:963:ILE:HB	2.18	0.43
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	2.00	0.43
2:H:1266:HIS:C	2:H:1268:GLU:N	2.72	0.43
2:H:1762:MET:HG2	2:H:1779:LYS:NZ	2.33	0.43
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.53	0.43
2:H:1904:VAL:HG13	2:H:1915:LEU:HG	2.00	0.43
2:H:551:GLU:HG3	2:H:770:LYS:NZ	2.34	0.43
2:H:857:VAL:HG11	2:H:876:TRP:NE1	2.30	0.43
2:H:914:TRP:CZ3	2:H:1033:ALA:HA	2.53	0.43
2:I:823:HIS:HB3	2:I:1051:GLU:HG3	2.01	0.43
2:I:1932:ASP:OD2	2:I:1934:ARG:HD2	2.18	0.43
2:I:2053:GLU:HG3	2:I:2053:GLU:H	1.51	0.43
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.88	0.43
2:I:471:ASP:OD1	2:I:493:MET:HE3	2.19	0.43
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	2.00	0.43
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.18	0.43
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	2.01	0.43
2:J:196:PHE:O	2:J:262:MET:HE1	2.18	0.43
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.18	0.43
2:K:1261:PHE:HE2	2:K:1285:ILE:HD11	1.83	0.43
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.43
2:L:1036:GLU:HG3	2:L:1036:GLU:H	1.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1317:ASN:OD1	2:L:1319:GLN:HB3	2.19	0.43
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.53	0.43
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.89	0.43
2:L:289:ILE:HG21	2:L:493:MET:CE	2.48	0.43
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.43
2:L:618:VAL:HG13	2:L:619:ALA:N	2.33	0.43
1:A:1288:ASP:O	1:A:1291:TYR:HB3	2.18	0.43
1:A:1420:TYR:OH	1:E:1473:HIS:CE1	2.69	0.43
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.17	0.43
1:B:427:ARG:NH2	1:B:517:ARG:O	2.51	0.43
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.48	0.43
1:C:1249:ILE:HD12	1:C:1250:LEU:N	2.33	0.43
1:C:1473:HIS:CE1	1:F:1420:TYR:OH	2.71	0.43
1:C:1581:LEU:HD13	1:C:1638:HIS:HA	2.00	0.43
1:D:1359:VAL:CG1	1:D:1360:GLN:N	2.80	0.43
1:D:1015:GLU:HA	1:D:1561:LEU:HD12	2.00	0.43
1:D:631:LYS:O	1:D:635:ILE:HG13	2.18	0.43
1:D:991:ASP:HA	1:D:1364:THR:CG2	2.48	0.43
1:E:1086:PHE:CZ	1:E:1310:PHE:HD2	2.36	0.43
1:E:1343:PRO:HA	1:E:1526:SER:HA	1.99	0.43
1:E:728:TYR:CE2	1:E:736:LEU:HD13	2.54	0.43
1:F:1484:GLU:O	1:F:1487:THR:HB	2.19	0.43
1:F:1522:PHE:HE2	1:F:1535:SER:HA	1.82	0.43
1:F:27:ARG:HG3	2:L:2045:ALA:HB2	1.99	0.43
1:F:47:ILE:HD12	2:L:1694:PHE:HE1	1.83	0.43
1:F:574:ILE:H	1:F:574:ILE:HG12	1.69	0.43
1:F:983:GLN:HB3	1:F:1418:ILE:CD1	2.48	0.43
1:A:1037:ASN:HD21	2:G:1011:GLN:HG2	1.83	0.43
2:G:1179:GLU:N	2:G:1179:GLU:CD	2.70	0.43
2:G:1276:GLU:HB3	2:G:1278:MET:HE2	1.99	0.43
2:G:2038:LYS:HD3	2:G:2038:LYS:HA	1.75	0.43
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.82	0.43
2:G:342:ASN:HD22	2:G:342:ASN:N	2.16	0.43
2:G:421:PHE:C	2:G:423:GLN:H	2.21	0.43
2:G:866:HIS:HB3	2:G:1068:GLN:O	2.18	0.43
2:G:92:GLU:C	2:G:94:ALA:H	2.22	0.43
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.43
2:H:1662:ARG:HG2	2:H:1686:GLU:HG2	2.00	0.43
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.48	0.43
2:H:750:GLY:O	2:H:865:ILE:HA	2.19	0.43
2:H:769:ARG:HA	2:H:769:ARG:HD3	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:884:PHE:HE2	2:H:1039:GLU:CA	2.30	0.43
2:H:92:GLU:C	2:H:94:ALA:H	2.21	0.43
2:I:788:THR:CG2	2:I:1094:HIS:CE1	3.01	0.43
2:I:1515:LEU:HB3	2:I:1525:VAL:HG21	2.01	0.43
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.48	0.43
2:I:182:TYR:CD1	2:I:183:PHE:N	2.86	0.43
1:C:18:LEU:HD13	2:I:1841:TYR:CE2	2.53	0.43
2:I:1901:GLN:HB3	2:I:1905:GLU:OE2	2.17	0.43
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	2.00	0.43
2:I:609:THR:HG23	3:I:2101:FMN:O4	2.19	0.43
2:I:555:LYS:HB3	2:I:556:PRO:HD3	2.00	0.43
2:I:615:TRP:HA	2:I:618:VAL:CG1	2.48	0.43
2:I:741:LEU:HG	2:I:741:LEU:O	2.19	0.43
2:J:1156:ASP:HB2	2:J:1159:SER:N	2.18	0.43
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.17	0.43
2:J:1589:PRO:HB2	2:J:1596:PHE:HB3	2.01	0.43
2:J:1376:LEU:O	2:J:1639:MET:HG2	2.17	0.43
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.82	0.43
2:J:868:LEU:HA	2:J:868:LEU:HD12	1.80	0.43
2:J:910:PHE:HD2	2:J:912:LYS:H	1.63	0.43
2:K:1348:PHE:CE1	2:K:1351:VAL:HG11	2.54	0.43
2:K:1804:GLN:CG	2:K:1865:LEU:HD23	2.48	0.43
2:K:609:THR:HG23	3:K:2101:FMN:O4	2.18	0.43
2:K:613:VAL:N	2:K:614:PRO:CD	2.80	0.43
2:K:674:ILE:HB	2:K:675:PRO:HD3	2.01	0.43
2:L:1067:LEU:HB2	3:L:2101:FMN:HM71	1.99	0.43
2:L:1125:ASP:HB2	2:L:1126:GLU:H	1.55	0.43
2:L:1464:LEU:HD13	2:L:1464:LEU:C	2.37	0.43
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	2.00	0.43
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	2.00	0.43
1:F:22:PHE:CE2	2:L:2017:PHE:CG	3.04	0.43
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.99	0.43
2:L:208:LEU:HB3	2:L:225:LEU:HD13	1.99	0.43
2:L:197:VAL:CG2	2:L:263:ILE:HD11	2.48	0.43
2:L:342:ASN:CB	2:L:406:ARG:NH2	2.81	0.43
2:L:676:LEU:HD23	2:L:679:ARG:NH2	2.33	0.43
2:L:690:LEU:HD22	2:L:691:THR:H	1.82	0.43
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.43
2:L:890:LYS:HB2	2:L:890:LYS:HE3	1.82	0.43
1:A:1149:LEU:HD23	1:A:1149:LEU:HA	1.72	0.43
1:A:458:GLU:H	1:A:458:GLU:CD	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:883:LEU:HA	1:A:888:ILE:HD12	2.01	0.43
1:B:449:GLN:HG3	1:B:474:ILE:HD13	2.00	0.43
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.66	0.43
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.19	0.43
1:C:997:THR:HG22	1:C:1361:VAL:HG22	2.01	0.43
1:C:1525:THR:OG1	1:C:1527:THR:HG23	2.18	0.43
1:C:1687:TYR:N	1:C:1687:TYR:CD2	2.86	0.43
1:C:673:LEU:HD21	1:C:884:MET:CE	2.48	0.43
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.19	0.43
1:D:1301:VAL:HG23	1:D:1363:MET:CG	2.48	0.43
1:D:1432:ILE:HD11	1:D:1481:GLN:CB	2.47	0.43
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	2.01	0.43
1:D:449:GLN:O	1:D:452:ILE:HG22	2.19	0.43
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.18	0.43
1:F:997:THR:HG22	1:F:1361:VAL:HG22	1.98	0.43
1:F:1432:ILE:HD11	1:F:1481:GLN:CB	2.49	0.43
1:F:405:TRP:HA	1:F:405:TRP:CE3	2.53	0.43
1:F:548:VAL:HG12	1:F:552:ILE:HD12	2.00	0.43
1:F:828:TRP:NE1	1:F:838:THR:HA	2.33	0.43
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.98	0.43
2:G:1261:PHE:HE2	2:G:1285:ILE:HD11	1.84	0.43
2:G:1863:ARG:HH11	2:G:1863:ARG:HG2	1.83	0.43
2:G:200:LEU:O	2:G:204:ILE:HG13	2.18	0.43
3:G:2101:FMN:H1'2	3:G:2101:FMN:H9	1.82	0.43
2:G:250:PHE:O	2:G:315:LEU:HD23	2.19	0.43
2:G:859:SER:CB	2:G:863:GLU:HG3	2.48	0.43
2:H:1036:GLU:H	2:H:1036:GLU:HG3	1.45	0.43
2:H:114:MET:HG2	2:H:122:ILE:HG21	2.00	0.43
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.48	0.43
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.19	0.43
2:H:1977:ARG:CD	2:H:1978:LYS:HE3	2.48	0.43
2:H:250:PHE:O	2:H:315:LEU:HD23	2.18	0.43
2:H:875:PHE:HE2	2:H:906:LEU:CD2	2.32	0.43
2:I:1081:GLU:H	2:I:1081:GLU:HG3	1.64	0.43
2:I:1335:PHE:N	2:I:1335:PHE:CD1	2.86	0.43
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.83	0.43
2:J:788:THR:CG2	2:J:1094:HIS:CE1	3.01	0.43
2:J:1504:TYR:HD2	2:J:1507:VAL:HG11	1.82	0.43
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.79	0.43
2:K:1419:LEU:HA	2:K:1419:LEU:HD23	1.86	0.43
2:K:1478:GLN:CG	2:K:1479:HIS:N	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1335:PHE:CE1	2:K:1629:ILE:CD1	3.00	0.43
2:K:172:ILE:HG23	2:K:515:ASP:HA	2.01	0.43
2:L:1259:LEU:HD11	2:L:1285:ILE:HG12	2.00	0.43
2:L:1333:GLU:HG3	2:L:1338:ARG:HD2	2.01	0.43
2:L:1687:GLN:O	2:L:1828:GLN:NE2	2.51	0.43
2:L:27:THR:HG22	2:L:32:GLU:HG2	2.01	0.43
2:L:478:LEU:HD22	2:L:481:LEU:HD11	2.00	0.43
1:A:1081:ILE:HD12	1:A:1091:PRO:CG	2.48	0.43
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.79	0.43
1:A:1503:LEU:HD21	1:A:1635:ILE:HD11	2.00	0.43
1:A:749:ILE:CD1	1:A:769:ILE:HD12	2.49	0.43
1:B:1213:VAL:HG22	1:B:1300:ARG:HE	1.84	0.43
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.43
1:C:1542:LEU:HD23	1:C:1542:LEU:HA	1.82	0.43
1:D:1055:THR:C	1:D:1057:GLU:H	2.22	0.43
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.18	0.43
1:D:1219:GLY:O	1:D:1302:CYS:HA	2.19	0.43
1:D:13:LEU:HG	2:J:2048:PHE:CE1	2.53	0.43
1:D:1686:PRO:HB2	1:D:1713:PHE:CD2	2.53	0.43
1:C:374:LEU:HD11	1:D:389:PRO:HD3	2.01	0.43
1:D:538:ARG:O	1:D:579:MET:HE1	2.18	0.43
1:D:648:LEU:HD12	1:D:649:THR:H	1.84	0.43
1:D:902:ASN:C	1:D:904:GLY:H	2.22	0.43
1:E:1210:TYR:HA	1:E:1213:VAL:O	2.17	0.43
1:E:1364:THR:HG22	1:E:1366:GLN:N	2.33	0.43
1:E:1447:VAL:HG21	1:E:1467:LEU:HD11	1.99	0.43
1:E:1503:LEU:HD21	1:E:1635:ILE:HD11	2.00	0.43
1:E:552:ILE:HG21	1:E:566:PHE:CE2	2.52	0.43
1:E:628:TYR:HD1	1:E:628:TYR:C	2.21	0.43
1:F:1038:HIS:CE1	1:F:1042:LEU:HG	2.54	0.43
1:F:1157:ASP:HB3	1:F:1326:ASN:OD1	2.18	0.43
1:F:1620:PHE:CE2	1:F:1636:GLY:HA3	2.54	0.43
2:G:1106:LYS:HB2	2:G:1109:ASN:ND2	2.34	0.43
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.19	0.43
2:G:1456:LEU:HD23	2:G:1457:HIS:N	2.34	0.43
2:G:1554:PRO:CG	2:G:1659:ILE:HD11	2.41	0.43
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.18	0.43
2:G:875:PHE:HE2	2:G:906:LEU:CD2	2.32	0.43
2:H:1175:MET:HA	2:H:1274:ILE:HD11	2.00	0.43
2:H:1335:PHE:HD1	2:H:1335:PHE:N	2.16	0.43
2:H:1851:MET:SD	2:H:1856:LEU:HA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:TYR:HD1	2:H:2030:ILE:HD12	1.82	0.43
2:H:197:VAL:CG2	2:H:263:ILE:HD11	2.46	0.43
2:H:298:ALA:HB2	2:H:304:PHE:HA	2.00	0.43
2:I:113:PHE:CD1	2:I:113:PHE:N	2.85	0.43
2:I:1245:THR:HG23	2:I:1260:THR:OG1	2.18	0.43
2:I:1290:TYR:CG	2:I:1299:VAL:CG1	2.92	0.43
2:I:1942:VAL:O	2:I:1946:LEU:HG	2.18	0.43
2:I:1832:THR:HG21	2:I:2040:ILE:HD11	2.00	0.43
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.43	0.43
2:I:465:LEU:HA	2:I:465:LEU:HD23	1.70	0.43
2:I:617:PHE:HE2	2:I:628:ILE:HD11	1.82	0.43
2:I:674:ILE:HB	2:I:675:PRO:HD3	2.01	0.43
2:I:932:ALA:O	2:I:935:VAL:HG13	2.19	0.43
2:J:129:ILE:HG12	2:J:131:ALA:HB3	1.99	0.43
2:J:1335:PHE:CD1	2:J:1335:PHE:N	2.85	0.43
2:J:1933:LEU:O	2:J:1989:LEU:HD11	2.18	0.43
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.18	0.43
2:J:274:GLU:O	2:J:278:ARG:HG2	2.18	0.43
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.54	0.43
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.54	0.43
2:K:1299:VAL:HG23	2:K:1301:PHE:CD2	2.54	0.43
2:K:1460:THR:HB	2:K:1463:ASP:OD1	2.18	0.43
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	2.00	0.43
2:K:1766:PHE:CE1	2:K:1869:VAL:HB	2.53	0.43
2:K:326:TYR:CE2	2:L:1338:ARG:NH1	2.87	0.43
2:K:342:ASN:CB	2:K:406:ARG:NH2	2.82	0.43
2:K:350:MET:HG3	2:K:435:ILE:CB	2.48	0.43
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.47	0.43
2:K:605:VAL:HB	2:K:628:ILE:CG1	2.42	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.70	0.43
2:L:1335:PHE:CD1	2:L:1629:ILE:HD11	2.52	0.43
2:L:1766:PHE:CE2	2:L:1869:VAL:HG23	2.53	0.43
2:L:1832:THR:HG21	2:L:2040:ILE:HD11	2.00	0.43
2:L:320:LEU:O	2:L:324:GLN:HG3	2.19	0.43
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.99	0.43
2:L:915:PHE:CG	2:L:915:PHE:O	2.72	0.43
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.52	0.43
1:A:1581:LEU:HD23	1:A:1581:LEU:HA	1.84	0.43
1:A:918:LEU:HD23	1:A:921:GLU:OE2	2.19	0.43
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	2.01	0.43
1:B:1564:HIS:C	1:B:1564:HIS:ND1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1554:LEU:HD22	1:B:1608:PRO:HG3	2.00	0.43
1:B:565:GLN:CG	1:B:565:GLN:O	2.67	0.43
1:B:61:LEU:HA	1:B:65:TYR:HB2	2.01	0.43
1:C:616:HIS:C	1:C:617:LEU:HD23	2.39	0.43
1:C:739:ASP:OD2	1:C:790:TYR:CG	2.72	0.43
1:C:965:TYR:CZ	1:C:1199:LEU:CD2	2.98	0.43
1:E:1491:ASN:N	1:E:1491:ASN:HD22	2.15	0.43
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.49	0.43
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.62	0.43
1:B:819:LEU:HD23	1:E:820:ALA:HA	2.00	0.43
1:F:1301:VAL:HG23	1:F:1363:MET:CG	2.49	0.43
1:F:1472:GLU:O	1:F:1475:GLU:HB2	2.19	0.43
1:F:850:THR:C	1:F:852:LEU:H	2.22	0.43
2:G:1261:PHE:HA	2:G:1284:ARG:NH1	2.33	0.43
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.49	0.43
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.66	0.43
2:G:1942:VAL:O	2:G:1946:LEU:HG	2.18	0.43
2:G:617:PHE:HE2	2:G:628:ILE:HD11	1.84	0.43
2:H:1406:ASN:HB3	2:H:1411:LYS:HG3	2.00	0.43
2:H:1766:PHE:CZ	2:H:1869:VAL:HB	2.54	0.43
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.19	0.43
2:H:357:THR:HG22	2:H:359:SER:H	1.82	0.43
2:H:583:THR:HG1	2:H:587:GLN:HB2	1.83	0.43
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.49	0.43
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.72	0.43
2:I:1588:ASN:OD1	2:I:1589:PRO:HD2	2.19	0.43
2:I:1804:GLN:CG	2:I:1865:LEU:HD23	2.48	0.43
2:I:2017:PHE:HE2	2:I:2021:LEU:HD11	1.84	0.43
2:I:253:ILE:HB	2:I:287:GLN:NE2	2.34	0.43
2:I:468:PRO:HD3	2:I:479:ARG:HH21	1.80	0.43
2:I:605:VAL:HB	2:I:628:ILE:CG1	2.42	0.43
2:I:608:MET:HB3	2:I:608:MET:HE2	1.94	0.43
2:I:616:ASP:N	2:I:616:ASP:OD1	2.51	0.43
2:I:747:ARG:HD3	2:I:1071:VAL:HG11	2.00	0.43
2:I:943:TYR:OH	2:I:948:LYS:HA	2.19	0.43
2:J:1179:GLU:HB3	2:J:1193:LYS:HE3	1.99	0.43
2:J:1316:VAL:HB	2:J:1391:VAL:O	2.18	0.43
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.18	0.43
2:J:1464:LEU:HD11	2:J:1468:ARG:HD2	2.00	0.43
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.22	0.43
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1942:VAL:O	2:J:1946:LEU:HG	2.17	0.43
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.84	0.43
2:J:462:ALA:HB3	2:J:481:LEU:O	2.18	0.43
2:J:465:LEU:HD23	2:J:465:LEU:HA	1.73	0.43
2:J:871:ARG:HB2	2:J:909:ASP:HB2	2.01	0.43
2:K:1106:LYS:HB2	2:K:1109:ASN:ND2	2.33	0.43
2:K:1175:MET:CE	2:K:1192:LEU:HD11	2.48	0.43
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.22	0.43
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	1.99	0.43
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.19	0.43
2:L:113:PHE:CD1	2:L:113:PHE:N	2.86	0.43
2:L:1672:LYS:O	2:L:1672:LYS:HG2	2.18	0.43
2:L:1762:MET:HG2	2:L:1779:LYS:HZ1	1.83	0.43
2:L:1904:VAL:HG13	2:L:1915:LEU:HG	2.01	0.43
1:A:701:ARG:HH11	1:A:1610:ARG:NH2	2.16	0.43
1:A:1640:LYS:CG	1:A:1641:TYR:CD1	3.02	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.17	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.64	0.43
1:A:744:VAL:CG1	1:A:746:PHE:CE1	3.02	0.43
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.18	0.43
1:C:1052:ASP:HB3	1:C:1055:THR:HG23	2.01	0.43
1:C:1134:GLU:HG3	1:C:1134:GLU:H	1.68	0.43
1:C:1164:ILE:HD13	1:C:1355:GLN:HG3	2.01	0.43
1:C:1601:GLN:HB2	1:C:1602:PHE:CD2	2.54	0.43
1:C:548:VAL:HG12	1:C:552:ILE:HD12	2.00	0.43
1:C:670:LEU:CD1	1:C:680:VAL:HG21	2.49	0.43
1:C:755:GLU:C	1:C:757:ASP:N	2.71	0.43
1:C:999:LEU:HD11	1:C:1575:ASN:CB	2.47	0.43
1:D:1011:ARG:C	1:D:1011:ARG:HD2	2.39	0.43
1:D:28:TRP:CE2	1:D:53:LEU:HD22	2.54	0.43
1:E:1037:ASN:ND2	1:E:1674:ILE:HG12	2.33	0.43
1:E:1168:TRP:HE1	1:E:1173:TYR:HE1	1.66	0.43
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.18	0.43
1:E:1220:ASN:HB3	1:E:1273:ILE:HG22	1.99	0.43
1:E:1522:PHE:HE2	1:E:1535:SER:HA	1.83	0.43
1:F:1022:LEU:O	1:F:1022:LEU:HD13	2.18	0.43
1:F:1607:TYR:HA	1:F:1608:PRO:HD3	1.83	0.43
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.83	0.43
1:F:418:ILE:HA	1:F:462:THR:HB	2.01	0.43
1:F:900:ASP:C	1:F:901:LEU:HD23	2.39	0.43
2:G:1014:GLN:O	2:G:1018:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1108:GLU:H	2:G:1108:GLU:HG3	1.57	0.43
2:G:1799:LEU:C	2:G:1801:SER:H	2.21	0.43
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.40	0.43
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.49	0.43
2:G:615:TRP:CE3	2:G:647:LYS:HB3	2.54	0.43
2:G:725:GLN:HE21	2:G:767:ARG:HH11	1.67	0.43
2:H:1211:ASP:HA	2:H:1212:PRO:HD2	1.83	0.43
2:H:1194:ARG:NH2	2:H:1601:ASN:OD1	2.52	0.43
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	2.00	0.43
2:I:1362:PHE:N	2:I:1363:PRO:CD	2.82	0.43
2:I:1346:MET:HE3	2:I:1617:ARG:NH2	2.34	0.43
2:I:1690:THR:HG22	2:I:1691:ALA:N	2.34	0.43
2:I:1884:CYS:CB	2:I:1936:LEU:HD12	2.47	0.43
2:I:787:ASP:O	2:I:790:PRO:HD2	2.19	0.43
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.53	0.43
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.53	0.43
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	2.01	0.43
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.19	0.43
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.19	0.43
2:J:208:LEU:HB3	2:J:225:LEU:HD13	2.00	0.43
2:J:227:ILE:HG13	2:J:227:ILE:H	1.65	0.43
2:J:616:ASP:OD1	2:J:616:ASP:N	2.51	0.43
2:K:590:VAL:CG2	2:K:1091:HIS:CD2	3.00	0.43
1:E:938:ILE:HG21	2:K:1546:ARG:NH2	2.34	0.43
2:K:399:TYR:CE2	2:K:403:LEU:HD11	2.53	0.43
2:K:555:LYS:HB3	2:K:556:PRO:HD3	1.99	0.43
2:L:1014:GLN:O	2:L:1018:LEU:HG	2.18	0.43
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.17	0.43
2:L:1204:VAL:HA	2:L:1218:SER:O	2.19	0.43
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	2.01	0.43
2:L:1316:VAL:HB	2:L:1391:VAL:O	2.19	0.43
2:L:1474:LYS:HE3	2:L:1529:ASP:HB3	2.01	0.43
2:L:1953:ILE:O	2:L:1957:MET:HG2	2.19	0.43
2:L:291:VAL:O	2:L:295:ILE:HB	2.19	0.43
2:L:506:VAL:O	2:L:506:VAL:HG22	2.18	0.43
2:L:617:PHE:HE2	2:L:628:ILE:HD11	1.84	0.43
2:L:657:GLY:HA3	2:L:688:GLU:HG2	2.00	0.43
2:L:73:VAL:HG13	2:L:113:PHE:HD2	1.83	0.43
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.82	0.43
1:A:1030:TRP:CE2	1:A:1673:LEU:HD22	2.54	0.43
1:A:1079:ARG:NH1	1:A:1079:ARG:HG2	2.10	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1158:ARG:HD2	1:A:1324:THR:HB	2.01	0.43
1:A:1170:ALA:CB	1:A:1188:LEU:HD13	2.49	0.43
1:A:987:MET:SD	1:A:1422:ARG:HG2	2.59	0.43
1:A:755:GLU:HB2	1:A:757:ASP:HB2	2.00	0.43
1:B:1019:LYS:HE3	1:B:1019:LYS:HB2	1.67	0.43
1:B:1176:PRO:O	1:B:1180:ILE:HG12	2.18	0.43
1:B:1581:LEU:HA	1:B:1581:LEU:HD23	1.86	0.43
1:B:408:GLN:O	1:B:412:SER:HB2	2.19	0.43
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.38	0.43
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	2.01	0.43
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.18	0.43
1:E:1022:LEU:HD13	1:E:1022:LEU:O	2.19	0.43
1:E:1224:SER:HB3	1:E:1307:PHE:CE2	2.54	0.43
1:F:535:TYR:HD2	1:F:540:LYS:HG2	1.84	0.43
1:A:534:GLN:O	1:F:575:ARG:HD3	2.18	0.43
2:G:1067:LEU:HD12	2:G:1067:LEU:H	1.83	0.43
2:G:1224:GLN:HG3	2:G:1578:GLU:OE2	2.19	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.46	0.43
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.34	0.43
2:H:942:MET:HG2	2:H:1029:PRO:HG2	2.01	0.43
2:H:608:MET:HA	3:H:2101:FMN:N5	2.34	0.43
2:H:747:ARG:HG3	2:H:747:ARG:H	1.54	0.43
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.18	0.43
2:I:114:MET:HG2	2:I:122:ILE:HG21	2.00	0.43
2:I:1205:GLU:O	2:I:1217:ILE:HA	2.19	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1607:THR:HG22	2:I:1608:HIS:N	2.34	0.43
2:I:220:GLN:NE2	2:I:324:GLN:HG2	2.34	0.43
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.19	0.43
2:I:68:GLU:HB3	2:I:69:PRO:HD2	2.00	0.43
2:I:759:GLN:N	2:I:760:PRO:CD	2.81	0.43
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.54	0.43
2:J:134:ILE:HG12	2:J:545:ILE:HD12	2.01	0.43
2:J:1308:VAL:CG1	2:J:1398:THR:HG23	2.48	0.43
2:J:1616:VAL:O	2:J:1620:VAL:HG23	2.18	0.43
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.92	0.43
2:J:605:VAL:HG22	2:J:816:MET:HG3	2.00	0.43
2:K:1028:VAL:HG22	2:K:1030:PHE:CE2	2.53	0.43
2:K:120:HIS:NE2	2:K:137:VAL:HG11	2.34	0.43
2:K:1960:MET:SD	2:K:1965:VAL:HG13	2.59	0.43
2:K:1871:VAL:HG23	2:K:2003:VAL:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	2.00	0.43
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.99	0.43
2:K:406:ARG:HA	2:K:409:LYS:HG2	2.01	0.43
2:K:465:LEU:HA	2:K:465:LEU:HD23	1.73	0.43
2:K:467:ILE:CG2	2:K:468:PRO:HD2	2.48	0.43
2:K:879:LEU:HB3	2:K:884:PHE:CE1	2.53	0.43
2:L:1276:GLU:HB3	2:L:1278:MET:HE2	2.00	0.43
2:L:208:LEU:HD23	2:L:211:LEU:HD12	2.00	0.43
2:L:253:ILE:HB	2:L:287:GLN:NE2	2.33	0.43
2:L:600:VAL:CG1	2:L:601:PRO:HD2	2.46	0.43
2:L:641:MET:CE	2:L:676:LEU:HD12	2.49	0.43
2:L:644:ALA:O	2:L:648:ILE:HG13	2.19	0.43
2:L:92:GLU:C	2:L:94:ALA:H	2.22	0.43
1:A:1042:LEU:HA	1:A:1042:LEU:HD23	1.77	0.43
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.43	0.43
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.18	0.43
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	2.00	0.43
1:B:470:GLY:O	1:B:474:ILE:HG13	2.18	0.43
1:B:613:PRO:C	1:B:615:LEU:N	2.73	0.43
1:B:821:LEU:HD23	1:B:821:LEU:HA	1.89	0.43
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.01	0.43
1:C:1432:ILE:HD11	1:C:1481:GLN:CB	2.49	0.43
1:C:408:GLN:HE22	1:C:1609:SER:N	2.14	0.43
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.41	0.43
1:C:714:PHE:CD1	1:C:725:LEU:HD12	2.53	0.43
1:D:1071:TYR:CE2	1:D:1075:HIS:HB2	2.54	0.43
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.19	0.43
1:D:1447:VAL:HG21	1:D:1467:LEU:HD11	2.00	0.43
1:D:408:GLN:O	1:D:412:SER:HB2	2.19	0.43
1:D:605:ARG:O	1:D:607:GLY:N	2.52	0.43
1:D:689:ARG:NE	1:D:1339:GLU:CG	2.76	0.43
1:D:874:GLN:HG2	1:D:874:GLN:H	1.34	0.43
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.12	0.43
1:E:450:TYR:C	1:E:450:TYR:CD2	2.91	0.43
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.76	0.43
1:F:1249:ILE:HD12	1:F:1250:LEU:N	2.34	0.43
1:F:1288:ASP:O	1:F:1291:TYR:HB3	2.19	0.43
1:C:1389:ILE:HD13	1:F:1682:LYS:HB3	2.00	0.43
1:F:958:GLU:HA	1:F:959:PRO:HD3	1.93	0.43
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.18	0.43
2:G:1452:VAL:O	2:G:1454:MET:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1863:ARG:HB2	2:G:2017:PHE:HE1	1.84	0.43
2:G:871:ARG:HB2	2:G:909:ASP:HB2	2.01	0.43
2:H:930:THR:HA	2:H:1007:LEU:HA	2.01	0.43
2:H:1106:LYS:HB2	2:H:1109:ASN:ND2	2.34	0.43
2:H:1259:LEU:HD11	2:H:1285:ILE:HG12	2.00	0.43
2:H:1915:LEU:HD13	2:H:1936:LEU:HD22	2.00	0.43
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.84	0.43
2:H:276:LEU:HD13	2:H:466:VAL:HG21	2.01	0.43
2:H:615:TRP:CE3	2:H:647:LYS:HB3	2.53	0.43
2:H:727:VAL:HA	2:H:730:ILE:HG12	2.01	0.43
2:I:1722:ALA:CB	2:I:1812:LEU:HD11	2.49	0.43
2:I:1863:ARG:O	2:I:1867:MET:HG3	2.19	0.43
2:I:1904:VAL:HG13	2:I:1915:LEU:HG	2.00	0.43
2:I:283:THR:HG23	2:I:470:TYR:O	2.19	0.43
2:I:737:PHE:O	2:I:773:ASN:HB3	2.19	0.43
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.78	0.43
2:I:747:ARG:H	2:I:747:ARG:HG3	1.57	0.43
2:J:1558:GLU:O	2:J:1560:PRO:HD3	2.19	0.43
2:J:1808:PRO:O	2:J:1812:LEU:HD23	2.18	0.43
2:J:1972:ILE:HG13	2:J:1972:ILE:H	1.38	0.43
2:J:604:MET:HG3	2:J:627:HIS:HD2	1.83	0.43
2:J:740:ILE:HA	2:J:775:VAL:HB	2.01	0.43
2:J:798:THR:HA	2:J:802:TYR:O	2.19	0.43
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	2.00	0.43
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.67	0.43
2:K:1871:VAL:HG12	2:K:1872:GLU:N	2.34	0.43
2:K:2038:LYS:HD3	2:K:2038:LYS:HA	1.77	0.43
2:K:938:MET:O	2:K:942:MET:HG3	2.19	0.43
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.19	0.43
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	2.01	0.43
2:L:1572:ARG:HG2	2:L:1647:ASP:O	2.19	0.43
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.19	0.43
2:L:1944:ASN:HA	2:L:1993:PHE:HD1	1.83	0.43
3:L:2101:FMN:H1'2	3:L:2101:FMN:H9	1.82	0.43
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.53	0.43
2:L:289:ILE:HG21	2:L:493:MET:HE2	2.01	0.43
2:L:540:ILE:CD1	2:L:557:GLU:HB3	2.48	0.43
2:L:871:ARG:HB2	2:L:909:ASP:HB2	2.01	0.43
1:A:1168:TRP:NE1	1:A:1173:TYR:CE1	2.79	0.42
1:B:1098:GLN:HB2	1:B:1152:LYS:HE2	2.01	0.42
1:B:29:ILE:HD11	2:H:1923:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:997:THR:HB	1:B:1363:MET:HE2	2.01	0.42
1:C:450:TYR:CD2	1:C:450:TYR:C	2.92	0.42
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.33	0.42
1:D:326:ASP:HB3	1:D:333:ARG:NH1	2.23	0.42
1:D:449:GLN:HG3	1:D:474:ILE:HD13	2.01	0.42
1:D:743:VAL:HG12	1:D:745:PRO:HG3	2.01	0.42
1:F:1071:TYR:HD2	1:F:1071:TYR:C	2.23	0.42
1:F:1184:ASP:OD1	1:F:1185:PRO:HD2	2.19	0.42
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.73	0.42
1:F:404:ASN:HD21	1:F:1607:TYR:H	1.66	0.42
1:F:414:TYR:O	1:F:418:ILE:HG13	2.18	0.42
1:F:648:LEU:HD12	1:F:649:THR:N	2.34	0.42
1:F:827:ARG:HB3	1:F:833:TRP:HZ2	1.84	0.42
1:F:948:HIS:O	1:F:952:TYR:HD2	2.02	0.42
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.54	0.42
2:G:1362:PHE:N	2:G:1363:PRO:CD	2.82	0.42
2:G:211:LEU:HB3	2:G:316:PHE:CZ	2.54	0.42
2:G:420:PRO:HB2	2:G:423:GLN:HB2	2.01	0.42
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.01	0.42
2:G:868:LEU:HA	2:G:868:LEU:HD12	1.80	0.42
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.54	0.42
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.54	0.42
2:H:141:TYR:HA	2:H:144:ARG:HB3	2.01	0.42
1:B:23:ALA:HA	2:H:2007:SER:O	2.19	0.42
2:H:221:TYR:CE2	2:H:225:LEU:HD12	2.54	0.42
2:H:211:LEU:HB3	2:H:316:PHE:CZ	2.53	0.42
2:H:478:LEU:HD22	2:H:481:LEU:HD11	2.01	0.42
2:H:914:TRP:O	2:H:916:GLY:N	2.46	0.42
2:H:943:TYR:OH	2:H:948:LYS:HA	2.19	0.42
1:A:75:GLN:NE2	2:I:335:THR:HG23	2.34	0.42
2:I:641:MET:CE	2:I:676:LEU:HD12	2.48	0.42
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.32	0.42
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.32	0.42
2:J:665:VAL:C	2:J:667:PRO:HD3	2.39	0.42
2:K:1631:ARG:NH2	2:K:1688:PRO:HA	2.34	0.42
2:K:306:THR:O	2:K:310:ARG:HG3	2.19	0.42
2:K:943:TYR:OH	2:K:948:LYS:HA	2.19	0.42
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	2.01	0.42
2:L:1818:PHE:HE2	2:L:1822:ARG:NH1	2.17	0.42
2:L:1944:ASN:HA	2:L:1993:PHE:CE1	2.53	0.42
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:26:LEU:HD23	2:L:26:LEU:HA	1.78	0.42
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.19	0.42
1:A:1475:GLU:HB3	1:A:1479:ARG:NH2	2.33	0.42
1:A:498:THR:HG21	1:A:858:LEU:HA	2.02	0.42
1:B:1470:ARG:HD3	1:B:1470:ARG:HA	1.90	0.42
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.81	0.42
1:C:1365:ALA:O	1:C:1368:ALA:HB3	2.20	0.42
1:C:1444:GLN:O	1:C:1447:VAL:HB	2.19	0.42
1:C:329:THR:O	1:C:332:GLN:HB2	2.19	0.42
1:C:358:PHE:HD2	1:C:359:VAL:N	2.16	0.42
1:C:749:ILE:HA	1:C:750:PRO:HD3	1.85	0.42
1:C:859:VAL:O	1:C:863:VAL:HG23	2.18	0.42
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	2.01	0.42
1:B:1461:PHE:CE2	1:D:1411:PHE:CE1	3.07	0.42
1:D:1713:PHE:HA	1:D:1714:PRO:HD3	1.80	0.42
1:E:350:ASP:HB3	1:E:353:ALA:HB2	2.01	0.42
1:B:552:ILE:HD11	1:E:566:PHE:CE1	2.53	0.42
1:E:628:TYR:CD1	1:E:629:SER:N	2.76	0.42
1:E:648:LEU:HD12	1:E:649:THR:N	2.34	0.42
1:F:1342:ARG:HB3	1:F:1345:SER:HB2	2.01	0.42
1:F:584:ILE:H	1:F:584:ILE:HG12	1.65	0.42
2:G:1303:THR:HA	2:G:1304:PRO:HD3	1.92	0.42
2:G:1871:VAL:HG12	2:G:1872:GLU:N	2.33	0.42
1:A:23:ALA:HA	2:G:2007:SER:O	2.19	0.42
2:G:399:TYR:CE2	2:G:403:LEU:HD11	2.55	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.83	0.42
2:G:779:GLY:HA3	2:G:811:MET:HE2	2.00	0.42
2:G:938:MET:HE2	2:G:959:THR:HA	2.01	0.42
2:H:1589:PRO:HB2	2:H:1596:PHE:HB3	2.01	0.42
2:H:174:GLY:H	2:H:517:GLY:CA	2.29	0.42
2:H:1938:THR:HG22	2:H:1977:ARG:HA	2.00	0.42
2:H:444:LEU:HD23	2:H:444:LEU:HA	1.72	0.42
2:H:932:ALA:O	2:H:935:VAL:HG13	2.19	0.42
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.50	0.42
2:I:1179:GLU:HB3	2:I:1193:LYS:HE3	2.02	0.42
2:I:1456:LEU:HD23	2:I:1457:HIS:N	2.34	0.42
2:I:1744:GLU:N	2:I:1799:LEU:HD13	2.34	0.42
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.00	0.42
2:I:342:ASN:HB2	2:I:406:ARG:NH2	2.33	0.42
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.19	0.42
2:J:1452:VAL:O	2:J:1454:MET:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.19	0.42
2:J:68:GLU:HB3	2:J:69:PRO:HD2	2.01	0.42
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.59	0.42
2:K:823:HIS:HB3	2:K:1051:GLU:HG3	2.01	0.42
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.74	0.42
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.54	0.42
2:K:1587:TYR:O	2:K:1588:ASN:C	2.57	0.42
2:K:1687:GLN:HA	2:K:1688:PRO:HD3	1.76	0.42
2:K:894:GLU:O	2:K:897:LYS:HG2	2.19	0.42
2:K:932:ALA:O	2:K:935:VAL:HG13	2.19	0.42
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.89	0.42
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.99	0.42
2:L:1308:VAL:CG1	2:L:1398:THR:HG23	2.50	0.42
2:L:1462:GLN:O	2:L:1466:VAL:HG23	2.19	0.42
2:L:1589:PRO:CB	2:L:1596:PHE:CG	3.02	0.42
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.84	0.42
1:F:11:TYR:HD1	2:L:2030:ILE:HD12	1.83	0.42
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	2.00	0.42
2:L:894:GLU:O	2:L:897:LYS:HG2	2.18	0.42
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.38	0.42
1:A:1472:GLU:O	1:A:1475:GLU:HB2	2.19	0.42
1:A:1307:PHE:CA	1:A:1568:ALA:HB2	2.50	0.42
1:A:1695:VAL:HG11	1:A:1713:PHE:CD2	2.55	0.42
1:A:447:PHE:CE1	1:A:451:HIS:NE2	2.87	0.42
1:A:490:VAL:O	1:A:490:VAL:HG12	2.20	0.42
1:B:1673:LEU:HD23	1:B:1673:LEU:HA	1.80	0.42
1:B:490:VAL:HG12	1:B:490:VAL:O	2.19	0.42
1:C:1011:ARG:C	1:C:1011:ARG:HD2	2.40	0.42
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.19	0.42
1:C:335:LEU:O	1:C:335:LEU:HD12	2.20	0.42
1:C:529:GLY:HA3	1:C:611:THR:HG21	2.01	0.42
1:D:349:MET:O	1:D:349:MET:HG3	2.19	0.42
1:D:628:TYR:C	1:D:628:TYR:CD1	2.92	0.42
1:C:776:ARG:NH1	1:D:759:ILE:O	2.50	0.42
1:E:1525:THR:O	1:E:1526:SER:HB3	2.19	0.42
1:B:374:LEU:HD11	1:E:389:PRO:HD3	2.01	0.42
1:E:829:TYR:OH	1:E:896:PRO:HD2	2.20	0.42
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.82	0.42
1:F:1467:LEU:HD23	1:F:1467:LEU:HA	1.91	0.42
1:F:329:THR:O	1:F:332:GLN:HB2	2.19	0.42
2:G:1780:ILE:HG23	2:G:1869:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.85	0.42
2:G:467:ILE:CG2	2:G:468:PRO:HD2	2.45	0.42
2:G:73:VAL:HA	2:G:113:PHE:HE2	1.83	0.42
2:H:1362:PHE:N	2:H:1363:PRO:CD	2.79	0.42
2:H:1626:GLU:O	2:H:1627:ASN:HB2	2.19	0.42
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.20	0.42
2:H:762:LEU:HD11	2:H:800:PHE:CB	2.49	0.42
2:H:872:GLY:HA2	2:H:909:ASP:O	2.19	0.42
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.34	0.42
2:I:1728:GLU:C	2:I:1757:ILE:HD11	2.40	0.42
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.54	0.42
2:I:289:ILE:CG2	2:I:490:LEU:HD22	2.50	0.42
2:I:489:GLU:HG2	2:I:492:ARG:NH1	2.34	0.42
2:I:571:ASP:HB3	2:I:574:LYS:HB2	2.02	0.42
2:I:785:SER:O	2:I:789:TYR:HB2	2.19	0.42
2:J:910:PHE:O	2:J:1063:ARG:HD3	2.19	0.42
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.50	0.42
2:J:193:TYR:O	2:J:197:VAL:HG23	2.19	0.42
2:J:1832:THR:HG21	2:J:2040:ILE:HD11	2.01	0.42
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	2.00	0.42
2:J:336:LEU:C	2:J:336:LEU:HD23	2.40	0.42
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.54	0.42
2:K:515:ASP:CB	2:K:541:LEU:HD23	2.48	0.42
2:K:606:ALA:HB2	2:K:811:MET:HG3	2.01	0.42
2:K:73:VAL:HA	2:K:113:PHE:HE2	1.84	0.42
2:K:914:TRP:CD1	2:K:916:GLY:CA	2.96	0.42
2:K:918:ASN:HB3	2:K:924:VAL:HG21	2.00	0.42
2:L:1146:LEU:O	2:L:1201:GLY:HA2	2.18	0.42
2:L:1175:MET:HA	2:L:1274:ILE:HD11	2.00	0.42
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.18	0.42
2:L:1972:ILE:HG13	2:L:1972:ILE:H	1.43	0.42
2:L:2005:PHE:HA	2:L:2010:LEU:CD1	2.32	0.42
2:L:884:PHE:HE2	2:L:1039:GLU:CA	2.29	0.42
1:A:403:TRP:CZ3	1:A:404:ASN:HB2	2.55	0.42
1:A:450:TYR:C	1:A:450:TYR:CD2	2.93	0.42
1:A:454:HIS:N	1:A:454:HIS:CD2	2.87	0.42
1:A:948:HIS:O	1:A:952:TYR:HD2	2.02	0.42
1:B:1031:MET:HE2	1:B:1031:MET:HB3	1.82	0.42
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.82	0.42
1:B:718:SER:HB3	1:B:721:ASP:HB2	2.01	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1587:PRO:HA	1:D:1611:SER:OG	2.18	0.42
1:D:821:LEU:HD23	1:D:821:LEU:HA	1.82	0.42
1:E:1364:THR:CG2	1:E:1366:GLN:HB2	2.49	0.42
1:E:1564:HIS:ND1	1:E:1564:HIS:C	2.73	0.42
1:E:1589:ASN:ND2	1:E:1592:ALA:HB2	2.34	0.42
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.19	0.42
1:F:902:ASN:C	1:F:904:GLY:H	2.21	0.42
2:G:1007:LEU:N	2:G:1007:LEU:HD12	2.30	0.42
2:G:1115:TYR:CZ	2:G:1174:ALA:HB2	2.54	0.42
2:G:120:HIS:CD2	2:G:137:VAL:CG1	3.02	0.42
2:H:917:ARG:NH1	2:H:1057:TYR:OH	2.52	0.42
2:H:1610:MET:HE3	2:H:1610:MET:HA	2.00	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1873:ARG:HB3	2:H:1879:SER:HA	2.01	0.42
2:H:1881:TYR:CB	2:H:2004:PRO:HG3	2.50	0.42
2:H:208:LEU:HB3	2:H:225:LEU:HD13	2.02	0.42
3:H:2101:FMN:H9	3:H:2101:FMN:H1'2	1.81	0.42
2:H:460:ILE:HA	2:H:461:PRO:HD3	1.81	0.42
2:H:612:THR:CG2	2:H:629:GLU:O	2.67	0.42
2:H:877:LYS:O	2:H:880:ASP:HB2	2.19	0.42
2:H:938:MET:HE2	2:H:959:THR:HA	2.01	0.42
2:I:785:SER:HB3	2:I:1094:HIS:CD2	2.55	0.42
1:C:31:THR:HG23	2:I:2040:ILE:CG2	2.50	0.42
3:I:2101:FMN:O4'	3:I:2101:FMN:H1'2	2.20	0.42
2:I:342:ASN:N	2:I:342:ASN:HD22	2.17	0.42
2:I:444:LEU:HA	2:I:444:LEU:HD23	1.72	0.42
2:I:603:VAL:HG22	2:I:810:CYS:SG	2.59	0.42
2:I:875:PHE:HE2	2:I:906:LEU:CD2	2.32	0.42
2:J:928:ASP:CA	2:J:1007:LEU:HD23	2.48	0.42
2:J:1248:GLU:OE1	2:J:1248:GLU:HA	2.19	0.42
2:J:1456:LEU:HD23	2:J:1457:HIS:N	2.35	0.42
2:J:314:LEU:O	2:J:318:ILE:HG13	2.20	0.42
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.47	0.42
2:J:604:MET:HG3	2:J:627:HIS:CD2	2.54	0.42
2:J:692:ILE:HD13	2:J:697:PRO:HG2	2.01	0.42
2:J:731:ALA:CB	2:J:739:ILE:HD12	2.50	0.42
2:J:785:SER:CB	2:J:1094:HIS:CD2	3.02	0.42
2:J:879:LEU:HB3	2:J:884:PHE:CE1	2.54	0.42
2:K:1048:TRP:CD1	2:K:1049:GLN:HG2	2.55	0.42
2:K:1236:LEU:O	2:K:1237:VAL:CG2	2.68	0.42
2:K:1248:GLU:OE2	2:K:1250:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1335:PHE:HE1	2:K:1629:ILE:HD13	1.84	0.42
2:J:376:ARG:HH21	2:K:1339:GLY:HA2	1.83	0.42
2:K:1424:LYS:HA	2:K:1425:PRO:HD3	1.89	0.42
2:K:1767:GLU:HB2	2:K:2016:PRO:CG	2.49	0.42
2:K:1972:ILE:HG13	2:K:1972:ILE:H	1.42	0.42
2:K:1983:LYS:HB3	2:K:1984:PRO:HD2	2.02	0.42
2:K:227:ILE:H	2:K:227:ILE:HG13	1.69	0.42
2:K:300:THR:HG22	2:K:301:TRP:N	2.35	0.42
2:K:731:ALA:HB1	2:K:771:CYS:SG	2.59	0.42
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.81	0.42
2:L:1325:VAL:HG22	2:L:1335:PHE:CD2	2.54	0.42
2:L:1521:GLU:HA	2:L:1521:GLU:OE1	2.19	0.42
2:L:1588:ASN:HD21	2:L:1590:ILE:HD12	1.83	0.42
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.38	0.42
2:L:1708:LEU:O	2:L:1708:LEU:HD22	2.19	0.42
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.46	0.42
2:L:856:THR:HG22	2:L:865:ILE:O	2.19	0.42
1:A:1071:TYR:CE2	1:A:1075:HIS:HB2	2.54	0.42
1:A:1149:LEU:HB2	1:E:1149:LEU:CB	2.45	0.42
1:A:694:TYR:HD2	1:A:695:TYR:CD1	2.37	0.42
1:A:859:VAL:O	1:A:863:VAL:HG23	2.19	0.42
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.19	0.42
1:B:548:VAL:HG22	1:E:569:LEU:HB2	2.01	0.42
1:C:14:LEU:HD21	2:I:1844:LEU:HD21	2.01	0.42
1:C:61:LEU:HA	1:C:65:TYR:HB2	2.02	0.42
1:C:653:LYS:HD3	1:C:742:TYR:CE2	2.52	0.42
1:C:655:ALA:O	1:C:680:VAL:HA	2.20	0.42
1:D:1159:LEU:HD12	1:D:1327:ALA:HB3	2.01	0.42
1:D:612:ILE:HA	1:D:613:PRO:HD3	1.64	0.42
1:E:1363:MET:CE	1:E:1373:VAL:HG21	2.45	0.42
1:E:329:THR:O	1:E:332:GLN:HB2	2.19	0.42
1:E:501:ASP:HB2	1:E:505:ASN:HB2	2.00	0.42
1:E:740:LEU:HD12	1:E:781:ILE:HD13	2.00	0.42
1:E:740:LEU:HD23	1:E:740:LEU:HA	1.84	0.42
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	2.01	0.42
1:F:1542:LEU:HA	1:F:1542:LEU:HD23	1.87	0.42
1:F:350:ASP:HB3	1:F:353:ALA:HB2	2.00	0.42
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.02	0.42
2:G:1084:LYS:HE3	2:G:1088:ASP:OD2	2.19	0.42
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.42
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1380:TYR:CD2	2:G:1380:TYR:N	2.87	0.42
2:G:186:LEU:HA	2:G:186:LEU:HD23	1.82	0.42
2:G:196:PHE:CD2	2:G:266:LYS:CB	3.03	0.42
2:G:712:ARG:O	2:G:738:PRO:HG2	2.18	0.42
2:H:1009:ASN:HD22	2:H:1010:ALA:N	2.18	0.42
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.85	0.42
2:H:1266:HIS:C	2:H:1268:GLU:H	2.22	0.42
2:H:1382:MET:CB	2:H:1633:ARG:HH11	2.32	0.42
2:H:342:ASN:HD22	2:H:342:ASN:N	2.17	0.42
2:H:283:THR:HG23	2:H:470:TYR:O	2.19	0.42
2:H:731:ALA:CB	2:H:739:ILE:HD12	2.50	0.42
2:H:725:GLN:HE21	2:H:767:ARG:HH11	1.68	0.42
2:H:870:THR:HG21	2:H:1064:THR:O	2.19	0.42
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.54	0.42
2:I:158:LEU:HD12	2:I:558:LEU:HD23	2.00	0.42
2:I:189:ILE:HD12	2:I:256:VAL:HG13	2.02	0.42
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.83	0.42
2:J:137:VAL:O	2:J:141:TYR:HD1	2.03	0.42
2:J:1723:ASP:OD1	2:J:1735:ILE:HG13	2.19	0.42
2:J:785:SER:HB3	2:J:1094:HIS:CD2	2.55	0.42
2:J:752:HIS:CD2	2:J:866:HIS:ND1	2.88	0.42
2:K:1130:ILE:HD12	2:K:1133:LEU:HD22	2.01	0.42
2:K:1269:ALA:HB1	2:K:1271:TYR:CE2	2.55	0.42
2:K:1555:VAL:HG12	2:K:1555:VAL:O	2.19	0.42
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	2.01	0.42
3:K:2101:FMN:O4'	3:K:2101:FMN:H1'2	2.20	0.42
2:K:657:GLY:HA3	2:K:688:GLU:HG2	2.02	0.42
2:K:741:LEU:CG	2:K:741:LEU:O	2.68	0.42
2:L:1009:ASN:HD22	2:L:1010:ALA:N	2.18	0.42
2:L:1207:THR:O	2:L:1215:THR:HA	2.20	0.42
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.85	0.42
2:L:1692:TYR:O	2:L:1833:PHE:HA	2.19	0.42
2:L:1851:MET:SD	2:L:1856:LEU:HA	2.59	0.42
2:L:1938:THR:HG22	2:L:1977:ARG:HA	2.01	0.42
2:L:300:THR:O	2:L:304:PHE:HB2	2.19	0.42
1:A:1148:LEU:HD23	1:A:1148:LEU:HA	1.74	0.42
1:A:1359:VAL:HG12	1:A:1360:GLN:N	2.34	0.42
1:A:755:GLU:C	1:A:757:ASP:N	2.73	0.42
1:B:1011:ARG:C	1:B:1011:ARG:HD2	2.40	0.42
1:B:1343:PRO:HA	1:B:1526:SER:HA	2.00	0.42
1:B:511:VAL:HG12	1:B:512:PRO:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1307:PHE:CA	1:C:1568:ALA:HB2	2.50	0.42
1:C:498:THR:HG21	1:C:858:LEU:HA	2.01	0.42
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.50	0.42
1:C:59:ARG:NH1	2:I:1925:MET:HE2	2.34	0.42
1:C:959:PRO:HD3	2:I:974:GLU:HG2	2.01	0.42
1:D:1164:ILE:HD13	1:D:1355:GLN:HG3	2.01	0.42
1:B:1461:PHE:HE2	1:D:1411:PHE:CE1	2.38	0.42
1:D:371:GLN:O	1:D:374:LEU:HB3	2.19	0.42
1:D:454:HIS:CD2	1:D:454:HIS:N	2.88	0.42
1:D:744:VAL:HG12	1:D:746:PHE:CD1	2.55	0.42
1:E:1082:GLU:HA	1:E:1083:PRO:HD3	1.85	0.42
1:E:343:ILE:O	1:E:347:LEU:HG	2.20	0.42
1:B:552:ILE:HD11	1:E:566:PHE:HE1	1.84	0.42
1:E:859:VAL:O	1:E:863:VAL:HG23	2.19	0.42
1:F:1581:LEU:HD13	1:F:1638:HIS:HA	2.01	0.42
1:F:458:GLU:H	1:F:458:GLU:CD	2.22	0.42
1:F:740:LEU:HD12	1:F:781:ILE:HD13	2.02	0.42
1:F:983:GLN:O	1:F:987:MET:HG3	2.20	0.42
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.01	0.42
2:G:1690:THR:HG22	2:G:1691:ALA:N	2.33	0.42
2:G:1804:GLN:O	2:G:1861:PHE:HD1	2.02	0.42
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.49	0.42
2:G:879:LEU:HB3	2:G:884:PHE:CE1	2.55	0.42
2:G:894:GLU:O	2:G:897:LYS:HG2	2.20	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	2.02	0.42
2:H:1290:TYR:CD2	2:H:1299:VAL:HG12	2.52	0.42
2:H:1371:LEU:HG	2:H:1600:ALA:HB2	2.00	0.42
2:H:356:LEU:O	2:H:387:ARG:HA	2.20	0.42
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.20	0.42
2:I:1036:GLU:HG3	2:I:1036:GLU:H	1.46	0.42
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.83	0.42
2:I:1308:VAL:CG1	2:I:1398:THR:HG23	2.49	0.42
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.84	0.42
2:I:1471:GLU:H	2:I:1471:GLU:HG3	1.44	0.42
2:I:1851:MET:HE2	2:I:1851:MET:HB3	1.96	0.42
2:I:1873:ARG:HB3	2:I:1879:SER:HA	2.01	0.42
2:I:608:MET:HA	3:I:2101:FMN:N5	2.34	0.42
2:J:1220:ARG:HB3	2:J:1228:LEU:HB2	2.01	0.42
2:J:129:ILE:HG21	2:J:132:LYS:CG	2.50	0.42
2:J:1335:PHE:HD1	2:J:1335:PHE:N	2.17	0.42
2:J:1804:GLN:O	2:J:1861:PHE:HD1	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1944:ASN:HA	2:J:1993:PHE:HD1	1.83	0.42
2:J:780:SER:HA	3:J:2101:FMN:O5'	2.19	0.42
2:J:26:LEU:HD22	2:J:53:LEU:HD21	2.00	0.42
2:J:829:LYS:O	2:J:832:ILE:HB	2.20	0.42
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.55	0.42
2:K:1942:VAL:O	2:K:1946:LEU:HG	2.20	0.42
2:K:609:THR:CB	2:K:610:PRO:HD3	2.50	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.34	0.42
2:K:641:MET:CE	2:K:676:LEU:HD12	2.49	0.42
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.49	0.42
2:K:747:ARG:HG3	2:K:747:ARG:H	1.59	0.42
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.82	0.42
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.19	0.42
2:K:962:PHE:O	2:K:965:ARG:HB3	2.20	0.42
2:L:1248:GLU:OE2	2:L:1250:ARG:HG2	2.20	0.42
2:L:1266:HIS:C	2:L:1268:GLU:H	2.23	0.42
2:L:1351:VAL:HG23	2:L:1584:SER:HA	2.01	0.42
2:L:1804:GLN:O	2:L:1861:PHE:HD1	2.03	0.42
2:L:1873:ARG:HB3	2:L:1879:SER:HA	2.00	0.42
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.82	0.42
2:L:705:TYR:HA	2:L:709:LEU:CD2	2.49	0.42
2:L:922:GLU:HA	2:L:923:PRO:HD3	1.89	0.42
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.49	0.42
1:A:1213:VAL:HG22	1:A:1300:ARG:HE	1.84	0.42
1:A:1015:GLU:HA	1:A:1561:LEU:HD12	2.01	0.42
1:A:1638:HIS:CG	1:A:1639:PRO:HD2	2.55	0.42
1:B:1696:PHE:O	1:D:1402:THR:HG22	2.20	0.42
1:B:400:ASP:OD1	1:B:400:ASP:C	2.58	0.42
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.54	0.42
1:B:432:GLN:O	1:B:436:ILE:HG13	2.19	0.42
1:B:418:ILE:HA	1:B:462:THR:HB	2.02	0.42
1:B:828:TRP:NE1	1:B:838:THR:HA	2.30	0.42
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.19	0.42
1:C:350:ASP:HB3	1:C:353:ALA:HB2	2.00	0.42
1:B:1232:LEU:HD11	1:D:1232:LEU:HD21	2.02	0.42
1:B:1402:THR:HG22	1:D:1696:PHE:O	2.20	0.42
1:D:329:THR:O	1:D:332:GLN:HB2	2.20	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.19	0.42
1:D:418:ILE:HA	1:D:462:THR:HB	2.01	0.42
1:D:527:ALA:CB	1:D:637:LEU:HD13	2.49	0.42
1:D:948:HIS:O	1:D:952:TYR:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.19	0.42
1:E:997:THR:HG22	1:E:1361:VAL:HG22	2.02	0.42
1:E:1591:ASN:C	1:E:1593:ASP:H	2.23	0.42
1:E:1601:GLN:HB2	1:E:1602:PHE:CD2	2.54	0.42
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.59	0.42
1:E:405:TRP:CE3	1:E:405:TRP:HA	2.55	0.42
1:E:718:SER:HB3	1:E:721:ASP:HB2	2.01	0.42
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.20	0.42
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.54	0.42
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.20	0.42
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.84	0.42
2:G:1199:THR:HG22	2:G:1200:ARG:N	2.35	0.42
2:G:1205:GLU:O	2:G:1217:ILE:HA	2.19	0.42
2:G:1464:LEU:C	2:G:1464:LEU:HD13	2.40	0.42
2:G:1375:HIS:CE1	2:G:1610:MET:CG	3.03	0.42
2:G:1947:LYS:HG3	2:G:1948:MET:HE3	2.01	0.42
2:G:253:ILE:HB	2:G:287:GLN:NE2	2.35	0.42
2:G:350:MET:HE3	2:G:435:ILE:HD12	2.01	0.42
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.85	0.42
2:G:540:ILE:CD1	2:G:557:GLU:HB3	2.50	0.42
2:G:595:SER:HB2	2:G:600:VAL:O	2.20	0.42
2:G:818:THR:HG22	2:G:829:LYS:CB	2.50	0.42
2:G:876:TRP:HD1	2:G:876:TRP:C	2.22	0.42
1:A:959:PRO:HB3	2:G:972:SER:HA	2.00	0.42
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.69	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:HG2	2.19	0.42
2:H:1631:ARG:NH2	2:H:1688:PRO:HA	2.34	0.42
2:H:1944:ASN:HA	2:H:1993:PHE:HD1	1.84	0.42
2:H:227:ILE:H	2:H:227:ILE:HG13	1.65	0.42
2:H:116:GLY:O	2:H:561:ARG:NH1	2.52	0.42
2:H:580:LEU:O	2:H:581:VAL:HG23	2.20	0.42
2:H:604:MET:HG3	2:H:627:HIS:HD2	1.84	0.42
2:H:663:ILE:N	2:H:663:ILE:HD12	2.35	0.42
2:I:80:ILE:HG12	2:I:105:ILE:HG22	2.01	0.42
2:I:1153:ASN:HD22	2:I:1153:ASN:HA	1.57	0.42
2:I:1650:THR:O	2:I:1669:ALA:HA	2.19	0.42
2:I:1672:LYS:HG2	2:I:1672:LYS:O	2.20	0.42
2:I:1728:GLU:C	2:I:1757:ILE:CD1	2.88	0.42
2:I:1730:TYR:HA	2:I:1761:TYR:HE1	1.83	0.42
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.49	0.42
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:211:LEU:HB3	2:I:316:PHE:CZ	2.55	0.42
2:I:350:MET:SD	2:I:392:THR:CG2	3.08	0.42
2:I:740:ILE:HA	2:I:775:VAL:HB	2.01	0.42
2:I:771:CYS:HB3	2:I:774:ILE:CD1	2.45	0.42
2:J:1330:ASN:HD22	2:J:1618:SER:HB2	1.84	0.42
2:J:1621:GLU:HG2	2:J:1632:VAL:HG11	2.01	0.42
2:J:276:LEU:HD11	2:J:296:ALA:HA	2.00	0.42
2:J:258:LEU:CD1	2:J:291:VAL:HG13	2.50	0.42
2:K:1515:LEU:HB3	2:K:1525:VAL:HG21	2.02	0.42
2:K:1607:THR:HG22	2:K:1608:HIS:N	2.33	0.42
2:K:196:PHE:O	2:K:262:MET:HE1	2.20	0.42
2:K:369:ASN:HB3	2:K:377:HIS:ND1	2.35	0.42
2:K:460:ILE:HA	2:K:461:PRO:HD3	1.82	0.42
2:K:485:ASP:CB	2:K:488:PRO:CD	2.91	0.42
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.55	0.42
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.42
2:L:1442:TYR:HA	2:L:1445:THR:CG2	2.45	0.42
2:L:197:VAL:O	2:L:200:LEU:HD23	2.20	0.42
2:L:595:SER:HB2	2:L:600:VAL:O	2.20	0.42
2:L:741:LEU:O	2:L:741:LEU:CG	2.67	0.42
2:L:875:PHE:HE2	2:L:906:LEU:CD2	2.32	0.42
2:L:917:ARG:NH1	2:L:1057:TYR:OH	2.53	0.42
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.13	0.42
1:A:631:LYS:O	1:A:635:ILE:HG13	2.19	0.42
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	2.02	0.42
1:B:555:GLN:HG2	1:B:557:ARG:NH2	2.35	0.42
1:C:1338:GLY:H	1:C:1340:MET:HG3	1.84	0.42
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.53	0.42
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.43	0.42
1:C:689:ARG:NH1	1:C:1339:GLU:OE2	2.53	0.42
1:C:900:ASP:C	1:C:901:LEU:HD23	2.39	0.42
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.15	0.42
1:D:511:VAL:HG12	1:D:512:PRO:HD2	2.02	0.42
1:D:612:ILE:HG23	1:D:613:PRO:CD	2.49	0.42
1:D:689:ARG:CZ	1:D:1339:GLU:CG	2.90	0.42
1:D:749:ILE:CD1	1:D:769:ILE:HD12	2.50	0.42
1:D:799:LEU:HD12	1:D:821:LEU:HB3	2.01	0.42
1:E:1363:MET:HE3	1:E:1368:ALA:CA	2.50	0.42
1:E:874:GLN:HG2	1:E:874:GLN:H	1.35	0.42
1:F:754:ARG:HH21	1:F:762:LYS:HD3	1.84	0.42
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:870:THR:HG21	2:G:1064:THR:O	2.20	0.42
2:G:1847:LEU:N	2:G:1847:LEU:HD12	2.34	0.42
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.49	0.42
2:G:411:PRO:HD2	2:G:414:LEU:HD11	2.02	0.42
2:G:468:PRO:HB3	2:G:477:ASP:OD2	2.19	0.42
2:G:883:ILE:HG22	2:G:884:PHE:N	2.35	0.42
2:H:1028:VAL:HG22	2:H:1030:PHE:CE2	2.55	0.42
2:H:621:THR:OG1	2:H:1083:ILE:HD13	2.19	0.42
2:H:1207:THR:O	2:H:1215:THR:HA	2.19	0.42
2:H:1380:TYR:CD2	2:H:1380:TYR:N	2.87	0.42
2:H:1610:MET:HA	2:H:1610:MET:HE2	1.99	0.42
2:H:1947:LYS:HG3	2:H:1948:MET:HE2	2.02	0.42
2:H:347:PRO:HA	2:H:432:PHE:CE1	2.54	0.42
2:H:618:VAL:HG13	2:H:619:ALA:N	2.34	0.42
2:H:604:MET:HG3	2:H:627:HIS:CD2	2.54	0.42
2:H:785:SER:O	2:H:789:TYR:HB2	2.19	0.42
2:H:871:ARG:HB2	2:H:909:ASP:HB2	2.02	0.42
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.83	0.42
2:I:1405:ILE:HG22	2:I:1445:THR:OG1	2.19	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.20	0.42
2:I:608:MET:HE1	2:I:817:MET:HG2	2.02	0.42
2:I:665:VAL:C	2:I:667:PRO:HD3	2.40	0.42
2:I:692:ILE:HD13	2:I:697:PRO:HG2	2.02	0.42
2:J:1636:HIS:O	2:J:1681:GLY:HA3	2.19	0.42
1:D:47:ILE:HB	2:J:1694:PHE:CE1	2.54	0.42
2:J:1953:ILE:O	2:J:1957:MET:HG2	2.20	0.42
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.07	0.42
1:D:23:ALA:HA	2:J:2007:SER:O	2.19	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.01	0.42
2:J:300:THR:O	2:J:304:PHE:HB2	2.20	0.42
2:J:834:ASP:O	2:J:836:PRO:HD3	2.20	0.42
2:J:988:GLU:HA	2:J:989:PRO:HD3	1.77	0.42
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.54	0.42
2:K:1303:THR:HA	2:K:1304:PRO:HD3	1.92	0.42
2:K:1361:ILE:HD11	2:K:1433:PHE:CD2	2.54	0.42
2:K:1427:MET:HG3	2:K:1427:MET:O	2.20	0.42
2:K:1658:MET:HE2	2:K:1826:LEU:HD23	2.01	0.42
2:K:1933:LEU:O	2:K:1989:LEU:HD11	2.20	0.42
2:K:208:LEU:HB3	2:K:225:LEU:HD13	2.02	0.42
2:K:349:PRO:O	2:K:392:THR:HG22	2.20	0.42
2:K:652:ILE:HG23	2:K:656:ARG:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:737:PHE:HA	2:K:738:PRO:HD3	1.80	0.42
2:K:818:THR:HG22	2:K:829:LYS:CB	2.49	0.42
2:K:827:GLN:C	2:K:1061:VAL:HG21	2.41	0.42
2:K:930:THR:HA	2:K:1007:LEU:HA	2.02	0.42
2:L:114:MET:HG2	2:L:122:ILE:HG21	2.02	0.42
2:L:1199:THR:HB	2:L:1202:MET:HB3	2.01	0.42
2:L:1690:THR:HG22	2:L:1691:ALA:N	2.34	0.42
2:L:314:LEU:O	2:L:318:ILE:HG13	2.20	0.42
2:L:609:THR:CB	2:L:610:PRO:HD3	2.49	0.42
2:L:68:GLU:HB3	2:L:69:PRO:HD2	2.01	0.42
1:A:1176:PRO:O	1:A:1180:ILE:HG12	2.20	0.42
1:A:1386:THR:HG22	1:A:1387:ASP:H	1.84	0.42
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.85	0.42
1:A:726:VAL:HG21	1:A:780:ALA:CB	2.50	0.42
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.48	0.42
1:B:1705:GLN:HE21	1:B:1709:GLY:HA2	1.84	0.42
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.35	0.42
1:B:776:ARG:NH1	1:E:759:ILE:O	2.52	0.42
1:C:1020:PHE:CE2	1:C:1028:MET:HG3	2.54	0.42
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.20	0.42
1:C:422:LEU:HB3	1:C:429:ILE:CD1	2.49	0.42
1:D:689:ARG:CD	1:D:1339:GLU:CD	2.79	0.42
1:D:1564:HIS:C	1:D:1564:HIS:ND1	2.73	0.42
1:D:1640:LYS:CG	1:D:1641:TYR:N	2.82	0.42
1:E:1509:THR:OG1	1:E:1510:TRP:CD1	2.72	0.42
1:E:855:ALA:HA	1:E:919:ARG:NH2	2.25	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	2.02	0.42
2:G:189:ILE:HD12	2:G:256:VAL:HG13	2.01	0.42
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.84	0.42
2:G:805:MET:HB3	2:G:805:MET:HE2	1.84	0.42
2:H:1245:THR:HG23	2:H:1260:THR:OG1	2.19	0.42
2:H:1290:TYR:CG	2:H:1299:VAL:CG1	2.89	0.42
2:H:616:ASP:N	2:H:616:ASP:OD1	2.51	0.42
2:H:734:ASN:N	2:H:734:ASN:ND2	2.68	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.20	0.42
2:I:1022:ARG:HG2	2:I:1022:ARG:H	1.70	0.42
2:I:106:LEU:HD11	2:I:143:GLY:O	2.19	0.42
2:I:1130:ILE:HD12	2:I:1133:LEU:HD22	2.01	0.42
2:I:1700:GLN:O	2:I:1700:GLN:HG2	2.19	0.42
2:I:321:ARG:HE	2:I:450:HIS:HB3	1.84	0.42
2:I:349:PRO:O	2:I:392:THR:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:699:ILE:H	2:I:699:ILE:CD1	2.32	0.42
2:I:703:ASN:O	2:I:707:GLN:HG3	2.19	0.42
2:I:92:GLU:C	2:I:94:ALA:H	2.22	0.42
2:J:1154:LEU:HD13	2:J:1198:PRO:CB	2.50	0.42
2:J:1236:LEU:O	2:J:1237:VAL:HG23	2.19	0.42
2:J:1269:ALA:HB1	2:J:1271:TYR:CE2	2.55	0.42
2:J:1588:ASN:HD21	2:J:1590:ILE:HD12	1.84	0.42
2:J:159:PHE:CD2	2:J:169:ILE:HD12	2.54	0.42
2:J:1904:VAL:HG13	2:J:1915:LEU:HG	2.02	0.42
2:J:1960:MET:SD	2:J:1965:VAL:HG13	2.60	0.42
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.42
2:J:580:LEU:O	2:J:581:VAL:HG23	2.20	0.42
2:J:779:GLY:HA3	2:J:811:MET:HE2	2.02	0.42
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.35	0.42
2:K:1304:PRO:O	2:K:1307:ALA:CB	2.67	0.42
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.83	0.42
2:K:1904:VAL:HG13	2:K:1915:LEU:HG	2.02	0.42
1:E:64:LYS:HE3	2:K:1923:ALA:CB	2.50	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:727:VAL:HA	2:K:730:ILE:CG1	2.50	0.42
2:L:126:VAL:O	2:L:133:LYS:HE3	2.20	0.42
2:L:1316:VAL:HG13	2:L:1348:PHE:HE2	1.85	0.42
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.54	0.42
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.22	0.42
2:L:1863:ARG:O	2:L:1867:MET:HG3	2.19	0.42
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.42
2:L:306:THR:O	2:L:310:ARG:HG3	2.19	0.42
2:L:462:ALA:HB3	2:L:481:LEU:O	2.19	0.42
2:L:489:GLU:HG2	2:L:492:ARG:CZ	2.50	0.42
2:L:876:TRP:HD1	2:L:876:TRP:C	2.22	0.42
1:A:1564:HIS:ND1	1:A:1564:HIS:C	2.73	0.42
1:A:1591:ASN:C	1:A:1593:ASP:H	2.24	0.42
1:A:1703:VAL:HG23	1:A:1713:PHE:CD1	2.55	0.42
1:A:371:GLN:O	1:A:374:LEU:HB3	2.20	0.42
1:B:1586:VAL:HA	1:B:1587:PRO:HD3	1.82	0.42
1:B:1670:HIS:ND1	2:H:1009:ASN:ND2	2.68	0.42
1:C:1321:MET:HE1	1:F:1251:GLN:HG3	2.01	0.42
1:C:562:SER:OG	1:D:551:LEU:HD21	2.20	0.42
1:C:701:ARG:NH1	1:C:1610:ARG:NH2	2.68	0.42
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.54	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1581:LEU:HD13	1:D:1638:HIS:HA	2.02	0.42
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.47	0.42
1:E:1232:LEU:HA	1:E:1232:LEU:HD23	1.83	0.42
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.19	0.42
1:E:1640:LYS:CG	1:E:1641:TYR:N	2.83	0.42
1:F:1273:ILE:HG13	1:F:1273:ILE:O	2.19	0.42
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.72	0.42
1:F:1329:GLU:O	1:F:1333:ARG:HG3	2.20	0.42
1:F:1601:GLN:HB2	1:F:1602:PHE:CD2	2.55	0.42
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.42
1:F:744:VAL:HG13	1:F:746:PHE:CE1	2.54	0.42
1:F:88:ILE:HG21	2:L:1821:MET:CE	2.48	0.42
1:F:500:ILE:HG22	1:F:929:ARG:NH1	2.34	0.42
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.50	0.42
2:G:1338:ARG:HH21	2:I:327:PRO:CD	2.24	0.42
2:G:1588:ASN:HA	2:G:1589:PRO:HD3	1.88	0.42
2:G:320:LEU:O	2:G:324:GLN:HG3	2.20	0.42
2:G:609:THR:HG23	3:G:2101:FMN:O4	2.20	0.42
2:G:641:MET:CE	2:G:676:LEU:HD12	2.50	0.42
2:G:691:THR:OG1	2:G:715:SER:HB3	2.20	0.42
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.42
2:H:1183:GLN:HB2	2:H:1278:MET:CE	2.50	0.42
2:H:129:ILE:HG21	2:H:132:LYS:CG	2.50	0.42
2:H:1301:PHE:HD1	2:H:1364:ARG:HG2	1.85	0.42
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.84	0.42
2:H:1953:ILE:O	2:H:1957:MET:HG2	2.19	0.42
2:H:258:LEU:HD12	2:H:291:VAL:HG13	2.01	0.42
2:H:747:ARG:HD2	2:H:780:SER:OG	2.20	0.42
2:I:1938:THR:HG22	2:I:1977:ARG:HA	2.01	0.42
2:I:1944:ASN:HA	2:I:1993:PHE:HD1	1.82	0.42
1:C:22:PHE:O	2:I:2006:HIS:HA	2.20	0.42
2:I:353:ILE:HG22	2:I:353:ILE:O	2.20	0.42
2:I:356:LEU:O	2:I:387:ARG:HA	2.20	0.42
2:I:507:PHE:HA	2:I:508:PRO:HD3	1.90	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.72	0.42
2:J:1863:ARG:HB2	2:J:2017:PHE:CE1	2.55	0.42
2:K:1176:PHE:CZ	2:K:1192:LEU:HD13	2.55	0.42
2:K:1336:VAL:HG12	2:K:1337:ASP:N	2.35	0.42
2:K:1350:ILE:HA	2:K:1350:ILE:HD13	1.71	0.42
2:K:1349:ALA:HB2	2:K:1427:MET:SD	2.60	0.42
2:K:211:LEU:HD21	2:K:313:GLU:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:376:ARG:HA	2:K:443:TYR:OH	2.19	0.42
2:K:580:LEU:O	2:K:581:VAL:HG23	2.19	0.42
2:L:281:GLY:HA3	2:L:470:TYR:CE1	2.52	0.42
2:L:356:LEU:O	2:L:387:ARG:HA	2.20	0.42
2:L:36:LEU:HA	2:L:36:LEU:HD23	1.73	0.42
1:A:1210:TYR:HA	1:A:1213:VAL:O	2.20	0.41
1:A:1586:VAL:HA	1:A:1587:PRO:HD3	1.85	0.41
1:B:1082:GLU:HA	1:B:1083:PRO:HD3	1.88	0.41
1:B:422:LEU:HB3	1:B:429:ILE:CD1	2.48	0.41
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.19	0.41
1:B:902:ASN:C	1:B:904:GLY:H	2.23	0.41
1:C:1220:ASN:HB3	1:C:1273:ILE:HG22	2.02	0.41
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.20	0.41
1:C:1294:ILE:HD11	1:C:1302:CYS:HB3	2.02	0.41
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.20	0.41
1:C:371:GLN:O	1:C:374:LEU:HB3	2.20	0.41
1:C:964:LYS:H	1:C:964:LYS:HG3	1.70	0.41
1:D:1419:LYS:HA	1:D:1422:ARG:HB2	2.02	0.41
1:D:1427:LEU:HD13	1:D:1427:LEU:C	2.41	0.41
1:D:14:LEU:HD23	2:J:2035:LEU:HD13	2.02	0.41
1:E:28:TRP:CE2	1:E:53:LEU:HD22	2.54	0.41
1:B:557:ARG:NH1	1:E:558:LEU:HD23	2.35	0.41
1:E:673:LEU:HD21	1:E:884:MET:CE	2.50	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.74	0.41
1:F:1564:HIS:C	1:F:1564:HIS:ND1	2.73	0.41
1:F:740:LEU:HD23	1:F:740:LEU:HA	1.84	0.41
2:G:1015:HIS:CD2	2:G:1019:LEU:HD11	2.55	0.41
2:G:1097:PHE:HD2	2:G:1100:ARG:NH1	2.16	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:HD1	1.85	0.41
2:G:1833:PHE:CE1	2:G:2039:TYR:HB2	2.55	0.41
2:G:197:VAL:CG2	2:G:263:ILE:HD11	2.48	0.41
2:G:612:THR:HG21	2:G:629:GLU:O	2.20	0.41
2:H:1266:HIS:HE1	2:H:1275:ARG:CD	2.20	0.41
2:H:1863:ARG:HB2	2:H:2017:PHE:CE1	2.55	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.86	0.41
2:H:690:LEU:HD22	2:H:691:THR:H	1.85	0.41
2:H:858:LEU:HD23	2:H:858:LEU:HA	1.89	0.41
2:H:875:PHE:CZ	2:H:879:LEU:HD11	2.55	0.41
2:I:1741:ASN:ND2	2:I:1798:GLY:HA3	2.35	0.41
2:I:1762:MET:HG2	2:I:1779:LYS:NZ	2.35	0.41
2:I:176:GLN:HB3	2:I:435:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	2.01	0.41
2:I:258:LEU:CD1	2:I:291:VAL:HG13	2.49	0.41
2:I:197:VAL:CG2	2:I:263:ILE:HD11	2.50	0.41
2:I:534:GLY:HA2	2:I:572:TRP:CZ3	2.55	0.41
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.85	0.41
2:J:1587:TYR:O	2:J:1588:ASN:C	2.58	0.41
2:J:1704:MET:SD	2:J:1810:LEU:HD23	2.60	0.41
2:J:192:THR:C	2:J:194:PRO:HD3	2.40	0.41
2:J:353:ILE:O	2:J:353:ILE:HG22	2.20	0.41
2:J:357:THR:HG22	2:J:359:SER:H	1.85	0.41
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.84	0.41
2:J:460:ILE:HA	2:J:461:PRO:HD3	1.80	0.41
2:J:705:TYR:HA	2:J:709:LEU:CD2	2.49	0.41
2:J:858:LEU:HD23	2:J:864:PRO:HA	2.02	0.41
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	2.01	0.41
2:K:1183:GLN:CB	2:K:1278:MET:HE3	2.50	0.41
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.20	0.41
2:K:1588:ASN:HD21	2:K:1590:ILE:HD12	1.85	0.41
2:K:1881:TYR:OH	2:K:2009:PHE:HE1	2.03	0.41
2:K:2005:PHE:HA	2:K:2010:LEU:CD1	2.34	0.41
2:K:786:GLU:CD	2:K:786:GLU:H	2.23	0.41
2:K:825:SER:HB2	2:K:1053:ILE:HG13	2.02	0.41
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.49	0.41
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.20	0.41
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.54	0.41
2:L:1942:VAL:O	2:L:1946:LEU:HG	2.21	0.41
2:L:250:PHE:CD2	2:L:287:GLN:HG3	2.54	0.41
2:L:251:PRO:HG3	2:L:316:PHE:N	2.35	0.41
2:L:649:GLU:HG3	2:L:650:LYS:N	2.34	0.41
2:L:727:VAL:HA	2:L:730:ILE:HG12	2.01	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.59	0.41
1:A:1359:VAL:CG1	1:A:1360:GLN:N	2.83	0.41
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	2.02	0.41
1:A:1207:TYR:CE1	1:A:1686:PRO:HG3	2.55	0.41
1:A:335:LEU:HD12	1:A:335:LEU:O	2.20	0.41
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.55	0.41
1:A:427:ARG:O	1:A:430:VAL:HB	2.20	0.41
1:A:667:ALA:O	1:A:670:LEU:HB3	2.20	0.41
1:A:655:ALA:O	1:A:680:VAL:HA	2.20	0.41
1:A:715:ASN:C	1:A:715:ASN:HD22	2.24	0.41
1:A:850:THR:C	1:A:852:LEU:H	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1414:PRO:HD2	1:D:1473:HIS:HD2	1.86	0.41
1:B:1525:THR:O	1:B:1526:SER:HB3	2.20	0.41
1:C:358:PHE:CD2	1:C:359:VAL:N	2.88	0.41
1:D:1525:THR:O	1:D:1526:SER:HB3	2.19	0.41
1:D:400:ASP:OD1	1:D:400:ASP:C	2.59	0.41
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.35	0.41
1:D:754:ARG:HH21	1:D:762:LYS:HD3	1.85	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.20	0.41
1:E:635:ILE:HG13	1:E:635:ILE:H	1.58	0.41
1:E:872:SER:OG	1:E:874:GLN:HG3	2.19	0.41
1:F:427:ARG:HD2	1:F:490:VAL:HG12	2.02	0.41
1:F:577:LEU:HD23	1:F:584:ILE:HG21	2.02	0.41
1:F:683:THR:HB	1:F:714:PHE:CB	2.46	0.41
1:F:728:TYR:CE2	1:F:736:LEU:HD13	2.56	0.41
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.85	0.41
2:G:1361:ILE:HD11	2:G:1433:PHE:CD2	2.55	0.41
2:G:1578:GLU:O	2:G:1582:ARG:HD2	2.20	0.41
2:G:1616:VAL:O	2:G:1620:VAL:HG23	2.20	0.41
1:A:89:TYR:CE1	2:G:1821:MET:HG2	2.54	0.41
2:H:1179:GLU:HB3	2:H:1193:LYS:HE3	2.02	0.41
2:H:1220:ARG:HB3	2:H:1228:LEU:HB2	2.01	0.41
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	2.01	0.41
2:H:1692:TYR:O	2:H:1833:PHE:HA	2.19	0.41
2:H:1700:GLN:O	2:H:1700:GLN:HG2	2.20	0.41
2:H:1709:TYR:C	2:H:1709:TYR:CD2	2.93	0.41
2:H:1881:TYR:CG	2:H:2004:PRO:HG3	2.54	0.41
2:H:659:THR:HA	2:H:689:GLY:O	2.20	0.41
2:I:917:ARG:NH1	2:I:1057:TYR:OH	2.53	0.41
2:I:785:SER:CB	2:I:1094:HIS:CD2	3.03	0.41
2:I:1220:ARG:HA	2:I:1229:VAL:O	2.20	0.41
2:I:1335:PHE:N	2:I:1335:PHE:HD1	2.18	0.41
2:I:1406:ASN:HB3	2:I:1411:LYS:HG3	2.01	0.41
2:I:141:TYR:HA	2:I:144:ARG:HB3	2.01	0.41
2:I:1430:THR:HG22	2:I:1431:SER:N	2.35	0.41
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.20	0.41
2:I:381:SER:HB2	2:I:440:HIS:HB2	2.03	0.41
2:I:652:ILE:CG2	2:I:656:ARG:HB2	2.50	0.41
2:I:725:GLN:HG2	2:I:764:MET:CE	2.50	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	2.01	0.41
2:J:1081:GLU:H	2:J:1081:GLU:HG3	1.67	0.41
2:J:1291:ARG:HD2	2:J:1297:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1873:ARG:HB3	2:J:1879:SER:HA	2.02	0.41
2:K:1093:ASP:O	2:K:1097:PHE:HB2	2.20	0.41
2:K:749:GLY:HA3	3:K:2101:FMN:HM81	2.02	0.41
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.44	0.41
2:K:725:GLN:HE21	2:K:767:ARG:HH11	1.67	0.41
2:L:1335:PHE:CD1	2:L:1335:PHE:N	2.87	0.41
2:L:159:PHE:CZ	2:L:275:LEU:HD21	2.54	0.41
2:L:1793:TYR:CD2	2:L:1805:PHE:CZ	3.08	0.41
2:L:1863:ARG:HB2	2:L:2017:PHE:CE1	2.55	0.41
2:L:1947:LYS:HG3	2:L:1948:MET:HE2	2.02	0.41
2:L:612:THR:CG2	2:L:629:GLU:O	2.68	0.41
1:A:1269:SER:O	1:E:1386:THR:HB	2.20	0.41
1:A:1581:LEU:HD13	1:A:1638:HIS:HA	2.03	0.41
1:A:413:MET:O	1:A:416:ASP:HB2	2.20	0.41
1:A:418:ILE:HA	1:A:462:THR:HB	2.02	0.41
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.65	0.41
1:B:329:THR:O	1:B:332:GLN:HB2	2.20	0.41
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.54	0.41
1:C:1001:GLU:C	1:C:1002:ILE:HD12	2.40	0.41
1:C:1288:ASP:O	1:C:1291:TYR:HB3	2.20	0.41
1:C:821:LEU:HD23	1:C:821:LEU:HA	1.90	0.41
1:C:921:GLU:HG3	1:C:922:ILE:N	2.35	0.41
1:D:1038:HIS:CE1	1:D:1042:LEU:HG	2.54	0.41
1:D:14:LEU:HD13	1:D:18:LEU:HG	2.03	0.41
1:D:408:GLN:HE22	1:D:1609:SER:N	2.18	0.41
1:D:850:THR:C	1:D:852:LEU:H	2.24	0.41
1:E:1351:PHE:HD1	1:E:1352:MET:N	2.19	0.41
1:E:874:GLN:HE21	1:E:874:GLN:HB3	1.66	0.41
1:F:1055:THR:C	1:F:1057:GLU:H	2.24	0.41
1:F:1501:ALA:O	1:F:1504:ARG:HB2	2.19	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.28	0.41
2:G:332:ALA:HB3	2:G:335:THR:OG1	2.21	0.41
2:G:350:MET:HG3	2:G:435:ILE:CB	2.50	0.41
2:G:737:PHE:O	2:G:773:ASN:HB3	2.21	0.41
2:H:1362:PHE:O	2:H:1363:PRO:O	2.38	0.41
2:H:1308:VAL:CG1	2:H:1398:THR:HG23	2.51	0.41
2:H:1690:THR:HG22	2:H:1691:ALA:N	2.35	0.41
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.50	0.41
2:H:613:VAL:H	2:H:614:PRO:HD3	1.84	0.41
2:H:615:TRP:HA	2:H:618:VAL:CG1	2.49	0.41
2:H:737:PHE:O	2:H:773:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:ARG:NH1	2:H:968:GLU:OE1	2.47	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.72	0.41
2:I:912:LYS:NZ	2:I:1044:LYS:O	2.53	0.41
2:I:1123:ALA:HB1	2:I:1126:GLU:H	1.86	0.41
2:I:1244:LEU:O	2:I:1260:THR:HA	2.20	0.41
2:I:1349:ALA:HB2	2:I:1427:MET:SD	2.60	0.41
2:I:1464:LEU:HD13	2:I:1464:LEU:C	2.40	0.41
2:I:27:THR:HG22	2:I:32:GLU:HG2	2.03	0.41
2:I:544:ALA:O	2:I:554:TYR:HB3	2.20	0.41
2:I:604:MET:HG3	2:I:627:HIS:O	2.20	0.41
2:I:793:THR:O	2:I:806:PRO:HA	2.20	0.41
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.55	0.41
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.83	0.41
2:J:1380:TYR:CD2	2:J:1380:TYR:N	2.88	0.41
2:J:1406:ASN:HB3	2:J:1411:LYS:HG3	2.02	0.41
2:J:1194:ARG:HD2	2:J:1598:SER:O	2.20	0.41
2:K:1131:ASP:C	2:K:1133:LEU:H	2.23	0.41
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.85	0.41
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.45	0.41
2:K:1808:PRO:O	2:K:1812:LEU:HD23	2.20	0.41
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.20	0.41
2:K:300:THR:O	2:K:304:PHE:HB2	2.20	0.41
2:K:616:ASP:OD1	2:K:616:ASP:N	2.52	0.41
2:K:727:VAL:HA	2:K:730:ILE:HG12	2.03	0.41
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.02	0.41
2:L:1606:ILE:HG22	2:L:1607:THR:O	2.20	0.41
1:F:43:ARG:NH1	2:L:1687:GLN:HE21	2.18	0.41
2:L:1868:GLN:O	2:L:1873:ARG:NH2	2.53	0.41
2:L:421:PHE:C	2:L:423:GLN:H	2.23	0.41
2:L:979:LEU:CD1	2:L:979:LEU:N	2.83	0.41
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.75	0.41
1:A:399:TYR:OH	1:A:692:THR:HG23	2.20	0.41
1:A:872:SER:OG	1:A:874:GLN:HG3	2.20	0.41
1:A:983:GLN:O	1:A:987:MET:HG3	2.20	0.41
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.19	0.41
1:B:1601:GLN:HB2	1:B:1602:PHE:CD2	2.56	0.41
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.44	0.41
1:B:771:LEU:HD23	1:E:767:HIS:HE1	1.85	0.41
1:C:1560:TYR:CE2	1:C:1589:ASN:HA	2.55	0.41
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.14	0.41
1:C:434:ILE:CD1	1:C:490:VAL:HG21	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:829:TYR:OH	1:C:896:PRO:HD2	2.20	0.41
1:C:859:VAL:HG13	1:C:918:LEU:HD13	2.01	0.41
1:D:1170:ALA:HB3	1:D:1188:LEU:HD13	2.01	0.41
1:D:1224:SER:HB3	1:D:1307:PHE:CE2	2.56	0.41
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	2.03	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.55	0.41
1:D:1343:PRO:HA	1:D:1526:SER:HA	2.02	0.41
1:D:450:TYR:CE1	1:D:1551:ASN:HB2	2.55	0.41
1:B:1405:ARG:HB2	1:D:1699:PRO:HG3	2.02	0.41
1:D:403:TRP:CZ3	1:D:404:ASN:HB2	2.55	0.41
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.81	0.41
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.54	0.41
1:F:999:LEU:HA	1:F:999:LEU:HD22	1.82	0.41
2:G:1019:LEU:HA	2:G:1022:ARG:CD	2.50	0.41
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.55	0.41
2:G:1338:ARG:NH2	2:I:327:PRO:CD	2.80	0.41
2:G:1873:ARG:HB3	2:G:1879:SER:HA	2.03	0.41
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.85	0.41
2:G:325:ALA:O	2:G:327:PRO:HD3	2.20	0.41
2:G:616:ASP:N	2:G:616:ASP:OD1	2.53	0.41
2:G:663:ILE:HD12	2:G:663:ILE:N	2.35	0.41
2:H:1236:LEU:O	2:H:1237:VAL:HG23	2.19	0.41
2:H:197:VAL:O	2:H:200:LEU:HD23	2.21	0.41
2:H:342:ASN:CB	2:H:406:ARG:NH2	2.83	0.41
2:H:451:ILE:HD12	2:H:491:VAL:HG13	2.01	0.41
2:I:590:VAL:CG2	2:I:1091:HIS:CD2	3.03	0.41
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.56	0.41
2:I:747:ARG:HD2	2:I:780:SER:OG	2.20	0.41
2:I:762:LEU:HD11	2:I:800:PHE:CB	2.51	0.41
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.85	0.41
2:I:960:GLY:O	2:I:963:ILE:HB	2.20	0.41
2:J:120:HIS:NE2	2:J:137:VAL:HG11	2.36	0.41
2:J:1309:PHE:CD1	2:J:1309:PHE:N	2.88	0.41
2:J:1375:HIS:ND1	2:J:1610:MET:HG2	2.35	0.41
2:J:138:ARG:CB	2:J:192:THR:HA	2.50	0.41
2:J:1938:THR:HG22	2:J:1977:ARG:HA	2.01	0.41
2:J:2070:ILE:CG2	2:J:2070:ILE:O	2.68	0.41
2:J:215:TRP:HE3	2:J:215:TRP:N	2.18	0.41
2:J:253:ILE:HB	2:J:287:GLN:NE2	2.36	0.41
2:J:396:ILE:H	2:J:396:ILE:CD1	2.18	0.41
2:J:527:LEU:O	2:J:530:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:625:GLY:C	2:J:656:ARG:NH2	2.74	0.41
2:J:725:GLN:HE21	2:J:767:ARG:HH11	1.69	0.41
2:J:725:GLN:HG2	2:J:764:MET:CE	2.50	0.41
2:J:769:ARG:HA	2:J:769:ARG:HD3	1.79	0.41
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.02	0.41
2:K:1156:ASP:HB2	2:K:1159:SER:N	2.21	0.41
2:K:1380:TYR:N	2:K:1380:TYR:CD2	2.89	0.41
2:K:1588:ASN:HA	2:K:1589:PRO:HD3	1.88	0.41
2:K:600:VAL:HG22	2:K:601:PRO:CD	2.50	0.41
2:K:600:VAL:CG2	2:K:601:PRO:HD2	2.49	0.41
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.33	0.41
2:K:757:PHE:HE2	2:K:779:GLY:O	2.02	0.41
2:K:750:GLY:O	2:K:865:ILE:HA	2.21	0.41
2:K:883:ILE:HG22	2:K:884:PHE:N	2.36	0.41
2:L:276:LEU:HD23	2:L:276:LEU:O	2.21	0.41
2:L:665:VAL:C	2:L:667:PRO:HD3	2.41	0.41
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.67	0.41
2:L:858:LEU:HA	2:L:858:LEU:HD23	1.85	0.41
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.36	0.41
1:A:1082:GLU:HA	1:A:1083:PRO:HD3	1.89	0.41
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.21	0.41
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.77	0.41
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	2.03	0.41
1:B:1491:ASN:N	1:B:1491:ASN:HD22	2.18	0.41
1:B:405:TRP:CE3	1:B:405:TRP:HA	2.55	0.41
1:B:46:GLU:HB3	1:B:80:CYS:HA	2.02	0.41
1:B:850:THR:C	1:B:852:LEU:H	2.24	0.41
1:C:1426:GLU:HA	1:C:1429:ARG:HG3	2.02	0.41
1:C:1640:LYS:CG	1:C:1641:TYR:CD1	3.04	0.41
1:C:569:LEU:HD22	1:D:544:ASP:HB3	2.01	0.41
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.85	0.41
1:D:1031:MET:HB3	1:D:1031:MET:HE2	1.75	0.41
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.83	0.41
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.01	0.41
1:D:405:TRP:HA	1:D:405:TRP:CE3	2.56	0.41
1:D:413:MET:O	1:D:416:ASP:HB2	2.21	0.41
1:D:553:ARG:C	1:D:555:GLN:H	2.22	0.41
1:D:683:THR:HG21	1:D:725:LEU:HD11	2.01	0.41
1:E:1212:TYR:CD2	1:E:1371:MET:HG2	2.55	0.41
1:E:1213:VAL:HG22	1:E:1300:ARG:HE	1.86	0.41
1:E:406:ALA:HB2	1:E:439:ARG:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:799:LEU:HD12	1:E:821:LEU:HB3	2.03	0.41
1:E:943:VAL:HG12	1:E:944:ASN:OD1	2.19	0.41
1:F:1086:PHE:CZ	1:F:1310:PHE:HD2	2.38	0.41
1:F:454:HIS:CD2	1:F:454:HIS:N	2.88	0.41
1:F:635:ILE:H	1:F:635:ILE:HG13	1.58	0.41
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.20	0.41
2:G:1376:LEU:O	2:G:1639:MET:HG2	2.20	0.41
2:G:1884:CYS:CB	2:G:1936:LEU:HD12	2.49	0.41
2:G:1953:ILE:O	2:G:1957:MET:HG2	2.20	0.41
2:G:2070:ILE:CG2	2:G:2070:ILE:O	2.67	0.41
2:G:197:VAL:HA	2:G:262:MET:HE1	2.01	0.41
2:G:641:MET:HE1	2:G:676:LEU:HD12	2.02	0.41
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	2.00	0.41
2:H:1032:PRO:O	2:H:1033:ALA:HB2	2.21	0.41
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.20	0.41
2:H:1430:THR:HG22	2:H:1431:SER:N	2.36	0.41
2:H:1460:THR:HB	2:H:1463:ASP:OD1	2.21	0.41
2:H:1489:VAL:HB	2:H:1514:LEU:HB2	2.03	0.41
2:H:1974:GLN:HG3	2:H:1977:ARG:HE	1.85	0.41
2:H:2005:PHE:HA	2:H:2010:LEU:CD1	2.31	0.41
1:B:21:GLN:O	2:H:2006:HIS:HD2	2.02	0.41
2:H:821:GLU:H	2:H:821:GLU:HG2	1.44	0.41
2:H:827:GLN:C	2:H:1061:VAL:HG21	2.40	0.41
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.20	0.41
1:C:1670:HIS:ND1	2:I:1009:ASN:ND2	2.69	0.41
2:I:870:THR:HG21	2:I:1064:THR:O	2.20	0.41
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.21	0.41
2:I:161:ALA:HB1	2:I:166:ASN:HD22	1.85	0.41
2:I:192:THR:C	2:I:194:PRO:HD3	2.40	0.41
2:I:1873:ARG:NH1	2:I:2002:ASP:CB	2.84	0.41
2:I:347:PRO:HA	2:I:432:PHE:CE1	2.54	0.41
1:C:956:ILE:HG23	2:I:975:GLY:C	2.41	0.41
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.55	0.41
2:J:1266:HIS:C	2:J:1268:GLU:N	2.74	0.41
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.20	0.41
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.41
2:J:161:ALA:HB1	2:J:166:ASN:HD22	1.85	0.41
2:J:296:ALA:O	2:J:466:VAL:HG23	2.21	0.41
2:J:915:PHE:CG	2:J:915:PHE:O	2.74	0.41
2:K:1220:ARG:HA	2:K:1229:VAL:O	2.20	0.41
2:K:1266:HIS:CE1	2:K:1275:ARG:CD	2.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1259:LEU:HD11	2:K:1285:ILE:HG12	2.03	0.41
2:K:1353:GLY:CA	2:K:1397:THR:HG21	2.48	0.41
2:K:268:LEU:HD12	2:K:275:LEU:HD12	2.03	0.41
2:L:1335:PHE:HD1	2:L:1335:PHE:N	2.19	0.41
2:L:1558:GLU:O	2:L:1560:PRO:HD3	2.20	0.41
2:L:1607:THR:HG22	2:L:1608:HIS:N	2.36	0.41
2:L:1901:GLN:HB3	2:L:1905:GLU:OE2	2.20	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
2:L:22:ARG:CD	2:L:39:THR:HA	2.51	0.41
2:L:612:THR:HG21	2:L:629:GLU:O	2.21	0.41
2:L:652:ILE:CG2	2:L:656:ARG:HB2	2.51	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
2:L:990:TYR:N	2:L:991:PRO:CD	2.83	0.41
1:A:1001:GLU:C	1:A:1002:ILE:HD12	2.41	0.41
1:A:1157:ASP:HB3	1:A:1326:ASN:OD1	2.21	0.41
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.20	0.41
1:A:350:ASP:HB3	1:A:353:ALA:HB2	2.01	0.41
1:A:623:PHE:HD2	1:A:623:PHE:N	2.16	0.41
1:B:1142:LEU:CD1	1:B:1142:LEU:H	2.29	0.41
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.20	0.41
1:B:447:PHE:HE1	1:B:451:HIS:HE2	1.68	0.41
1:B:543:ASN:O	1:B:546:ARG:HB2	2.21	0.41
1:B:983:GLN:O	1:B:987:MET:HG3	2.20	0.41
1:C:1055:THR:C	1:C:1057:GLU:H	2.23	0.41
1:C:1149:LEU:HD23	1:C:1149:LEU:HA	1.73	0.41
1:C:1364:THR:HG22	1:C:1366:GLN:N	2.32	0.41
1:C:46:GLU:HB3	1:C:80:CYS:HA	2.02	0.41
1:C:504:GLY:HA2	1:C:929:ARG:HB3	2.03	0.41
1:D:1001:GLU:C	1:D:1002:ILE:HD12	2.41	0.41
1:D:1363:MET:SD	1:D:1367:LEU:HD13	2.60	0.41
1:B:1473:HIS:HD2	1:D:1499:ARG:NH2	2.18	0.41
1:D:404:ASN:HD21	1:D:1607:TYR:H	1.67	0.41
1:D:29:ILE:HG22	1:D:30:GLU:N	2.35	0.41
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.21	0.41
1:D:756:ILE:HA	1:D:759:ILE:HD11	2.03	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.46	0.41
1:E:1288:ASP:O	1:E:1291:TYR:HB3	2.19	0.41
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.54	0.41
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.20	0.41
1:E:1647:ASP:C	1:E:1649:ALA:N	2.74	0.41
1:E:486:VAL:HG22	1:E:648:LEU:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:648:LEU:HD12	1:E:649:THR:H	1.86	0.41
1:B:827:ARG:NE	1:E:816:GLU:OE2	2.53	0.41
1:F:1210:TYR:HA	1:F:1213:VAL:O	2.21	0.41
1:F:371:GLN:O	1:F:374:LEU:HB3	2.21	0.41
1:F:449:GLN:O	1:F:452:ILE:HG22	2.20	0.41
1:F:837:LEU:HA	1:F:837:LEU:HD12	1.86	0.41
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.20	0.41
2:G:1308:VAL:CG1	2:G:1398:THR:HG23	2.51	0.41
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.20	0.41
2:G:376:ARG:HA	2:G:443:TYR:OH	2.20	0.41
2:G:787:ASP:O	2:G:790:PRO:HD2	2.20	0.41
2:H:38:PRO:CD	2:H:104:LEU:HD11	2.44	0.41
2:H:1084:LYS:O	2:H:1088:ASP:HB2	2.20	0.41
2:H:1108:GLU:H	2:H:1108:GLU:HG3	1.59	0.41
2:H:1483:LEU:CD2	2:H:1525:VAL:HG11	2.49	0.41
2:H:1741:ASN:HD21	2:H:1798:GLY:HA3	1.83	0.41
2:H:253:ILE:HB	2:H:287:GLN:NE2	2.35	0.41
2:H:28:HIS:O	2:H:31:LEU:HD12	2.21	0.41
2:H:306:THR:O	2:H:310:ARG:HG3	2.20	0.41
2:H:757:PHE:HE2	2:H:779:GLY:O	2.04	0.41
2:H:798:THR:HA	2:H:802:TYR:O	2.21	0.41
2:H:779:GLY:HA3	2:H:811:MET:HB3	2.03	0.41
2:I:1028:VAL:HG13	2:I:1030:PHE:H	1.86	0.41
2:I:1835:GLY:HA3	2:I:1840:GLU:N	2.35	0.41
2:I:2055:PHE:HB2	2:I:2071:LEU:HD21	2.03	0.41
2:I:379:GLY:O	2:I:391:VAL:HG13	2.21	0.41
2:I:604:MET:HG3	2:I:627:HIS:CD2	2.55	0.41
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.51	0.41
2:J:1246:LEU:O	2:J:1258:PRO:HA	2.20	0.41
2:J:1403:ALA:HB2	2:J:1447:GLN:HA	2.02	0.41
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.84	0.41
2:J:196:PHE:HD2	2:J:266:LYS:CB	2.32	0.41
2:J:27:THR:HG22	2:J:32:GLU:HG2	2.02	0.41
2:J:444:LEU:HA	2:J:444:LEU:HD23	1.71	0.41
2:J:58:GLN:HA	2:J:59:PRO:HD3	1.94	0.41
2:K:80:ILE:HG12	2:K:105:ILE:HG22	2.03	0.41
2:K:250:PHE:CZ	2:K:439:PHE:CZ	3.08	0.41
2:K:613:VAL:N	2:K:614:PRO:HD3	2.35	0.41
2:K:692:ILE:HD13	2:K:697:PRO:HG2	2.03	0.41
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.49	0.41
2:K:958:LEU:HD13	2:K:1025:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1131:ASP:C	2:L:1133:LEU:H	2.24	0.41
2:L:1346:MET:HE3	2:L:1346:MET:HB3	1.87	0.41
2:L:1866:THR:CA	2:L:1869:VAL:HG22	2.50	0.41
3:L:2101:FMN:HO2'	3:L:2101:FMN:C10	2.34	0.41
2:L:172:ILE:HG23	2:L:515:ASP:HA	2.01	0.41
2:L:829:LYS:O	2:L:832:ILE:HB	2.20	0.41
2:L:942:MET:O	2:L:951:ILE:HG13	2.20	0.41
1:A:1501:ALA:HA	1:A:1502:PRO:HD3	1.96	0.41
1:A:41:THR:HG22	2:G:1689:VAL:HG12	2.01	0.41
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.02	0.41
1:B:1713:PHE:HA	1:B:1714:PRO:HD3	1.89	0.41
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.50	0.41
1:C:465:LEU:HD12	1:C:465:LEU:O	2.20	0.41
1:C:948:HIS:O	1:C:952:TYR:CD2	2.74	0.41
1:D:1647:ASP:C	1:D:1649:ALA:N	2.72	0.41
1:C:575:ARG:HD3	1:D:534:GLN:O	2.21	0.41
1:D:391:PHE:HA	1:D:713:PRO:O	2.19	0.41
1:D:726:VAL:HG21	1:D:780:ALA:CB	2.51	0.41
1:C:768:ARG:NH1	1:D:764:GLU:OE1	2.46	0.41
1:E:1031:MET:HE2	1:E:1031:MET:HB3	1.70	0.41
1:E:1622:VAL:O	1:E:1622:VAL:HG13	2.21	0.41
1:E:1662:GLN:HB3	1:E:1662:GLN:HE21	1.70	0.41
1:B:372:LEU:CD1	1:E:371:GLN:HG2	2.45	0.41
1:E:418:ILE:HA	1:E:462:THR:HB	2.03	0.41
1:F:31:THR:HG23	2:L:2040:ILE:CG2	2.51	0.41
1:F:538:ARG:HD2	1:F:542:GLN:NE2	2.36	0.41
2:G:884:PHE:CE2	2:G:1039:GLU:HA	2.51	0.41
2:G:113:PHE:HD1	2:G:113:PHE:N	2.19	0.41
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.21	0.41
2:G:1904:VAL:HG22	2:G:1939:LEU:CD2	2.49	0.41
2:G:489:GLU:HG2	2:G:492:ARG:NH1	2.35	0.41
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.21	0.41
2:G:625:GLY:C	2:G:656:ARG:NH2	2.74	0.41
2:G:834:ASP:O	2:G:836:PRO:HD3	2.20	0.41
2:G:865:ILE:HG22	2:G:867:LYS:HG3	2.02	0.41
2:H:1309:PHE:CD1	2:H:1309:PHE:N	2.87	0.41
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.85	0.41
2:H:1578:GLU:O	2:H:1582:ARG:HD2	2.21	0.41
2:H:1847:LEU:N	2:H:1847:LEU:HD12	2.36	0.41
2:H:270:ARG:HG3	2:H:274:GLU:OE1	2.21	0.41
2:H:489:GLU:HG2	2:H:492:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:617:PHE:HE2	2:H:628:ILE:HD11	1.84	0.41
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.41
1:C:22:PHE:CE1	2:I:1867:MET:HG2	2.56	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.40	0.41
2:I:727:VAL:HA	2:I:730:ILE:HG12	2.03	0.41
2:I:868:LEU:O	2:I:870:THR:HG23	2.20	0.41
2:I:872:GLY:HA2	2:I:909:ASP:O	2.21	0.41
2:J:117:ASN:HA	2:J:561:ARG:CD	2.50	0.41
2:J:67:ASP:CA	2:J:132:LYS:HE2	2.48	0.41
2:J:608:MET:HE1	2:J:817:MET:HG2	2.02	0.41
2:K:867:LYS:NZ	2:K:1065:CYS:SG	2.85	0.41
2:K:1211:ASP:HA	2:K:1212:PRO:HD2	1.83	0.41
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.83	0.41
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.55	0.41
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.38	0.41
2:K:1766:PHE:CZ	2:K:1869:VAL:HB	2.55	0.41
2:K:342:ASN:HD22	2:K:342:ASN:N	2.18	0.41
2:K:357:THR:HG22	2:K:359:SER:H	1.85	0.41
2:K:396:ILE:CD1	2:K:396:ILE:H	2.29	0.41
2:K:26:LEU:HD22	2:K:53:LEU:HD21	2.03	0.41
2:K:876:TRP:C	2:K:876:TRP:HD1	2.22	0.41
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.56	0.41
2:L:1290:TYR:CG	2:L:1299:VAL:CG1	2.91	0.41
2:L:1424:LYS:HA	2:L:1425:PRO:HD3	1.84	0.41
2:L:1948:MET:HE1	2:L:1948:MET:HA	2.01	0.41
2:L:276:LEU:HD11	2:L:296:ALA:HA	2.02	0.41
2:L:604:MET:HG3	2:L:627:HIS:CD2	2.56	0.41
1:B:569:LEU:HD13	1:E:548:VAL:CG2	2.51	0.41
1:C:1420:TYR:O	1:C:1424:GLN:HG2	2.21	0.41
1:C:408:GLN:NE2	1:C:1609:SER:H	2.16	0.41
1:C:802:SER:HA	1:C:803:PRO:HD3	1.89	0.41
1:D:1094:LYS:HE2	1:D:1312:GLU:HG2	2.03	0.41
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.35	0.41
1:D:983:GLN:O	1:D:987:MET:HG3	2.20	0.41
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.73	0.41
1:E:454:HIS:CD2	1:E:454:HIS:N	2.88	0.41
1:E:449:GLN:HG3	1:E:474:ILE:HD13	2.02	0.41
1:E:948:HIS:O	1:E:952:TYR:CD2	2.74	0.41
1:F:1212:TYR:CD2	1:F:1371:MET:HG2	2.55	0.41
1:F:14:LEU:HD21	2:L:1844:LEU:HD21	2.01	0.41
1:F:526:MET:CE	1:F:614:PHE:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	2.03	0.41
2:G:1127:GLU:HA	2:G:1128:PRO:HD3	1.74	0.41
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.55	0.41
2:G:1723:ASP:CG	2:G:1735:ILE:HG13	2.41	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:CE1	2.55	0.41
2:G:26:LEU:HD23	2:G:26:LEU:HA	1.83	0.41
2:G:306:THR:O	2:G:310:ARG:HG3	2.20	0.41
2:G:690:LEU:HD22	2:G:691:THR:N	2.36	0.41
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.56	0.41
2:H:1299:VAL:HG23	2:H:1301:PHE:CD2	2.55	0.41
2:H:1515:LEU:HB3	2:H:1525:VAL:HG21	2.02	0.41
2:H:1722:ALA:CB	2:H:1812:LEU:HD11	2.51	0.41
2:H:1896:THR:HG22	2:H:1898:GLN:N	2.23	0.41
2:H:1901:GLN:HB3	2:H:1905:GLU:OE2	2.20	0.41
2:H:276:LEU:HD23	2:H:276:LEU:O	2.21	0.41
2:H:281:GLY:HA3	2:H:470:TYR:CE1	2.51	0.41
2:H:890:LYS:HE3	2:H:890:LYS:HB2	1.85	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:I:1123:ALA:CB	2:I:1126:GLU:HG3	2.46	0.41
2:I:1269:ALA:HB1	2:I:1271:TYR:CE2	2.56	0.41
2:I:1301:PHE:CD1	2:I:1364:ARG:CZ	3.04	0.41
2:I:167:VAL:HG23	2:I:169:ILE:HG13	2.02	0.41
2:I:1871:VAL:HG12	2:I:1872:GLU:N	2.35	0.41
2:I:1947:LYS:HE3	2:I:1948:MET:CE	2.51	0.41
2:I:609:THR:CB	2:I:610:PRO:HD3	2.51	0.41
2:I:612:THR:CG2	2:I:629:GLU:O	2.69	0.41
2:J:917:ARG:NH1	2:J:1057:TYR:OH	2.54	0.41
2:J:1115:TYR:OH	2:J:1173:HIS:CD2	2.69	0.41
2:J:1211:ASP:HA	2:J:1212:PRO:HD2	1.84	0.41
2:J:1299:VAL:HG23	2:J:1301:PHE:CD2	2.55	0.41
2:J:1349:ALA:HB2	2:J:1427:MET:SD	2.60	0.41
2:J:1374:VAL:CG2	2:J:1436:ARG:NE	2.84	0.41
2:J:1496:VAL:HG23	2:J:1507:VAL:HG12	2.02	0.41
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.02	0.41
2:J:376:ARG:HA	2:J:443:TYR:OH	2.21	0.41
2:J:960:GLY:O	2:J:963:ILE:HB	2.21	0.41
2:K:1084:LYS:HE3	2:K:1088:ASP:OD2	2.21	0.41
2:K:1317:ASN:OD1	2:K:1319:GLN:HB3	2.21	0.41
2:K:1624:ALA:CB	2:K:1665:ILE:HD13	2.51	0.41
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.84	0.41
2:K:859:SER:HB3	2:K:863:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1032:PRO:O	2:L:1033:ALA:HB2	2.20	0.41
2:L:1382:MET:HB2	2:L:1633:ARG:HH11	1.86	0.41
2:L:1847:LEU:N	2:L:1847:LEU:HD12	2.36	0.41
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.19	0.41
2:L:785:SER:O	2:L:789:TYR:HB2	2.20	0.41
1:A:1017:TYR:N	1:A:1017:TYR:CD1	2.89	0.41
1:A:1055:THR:C	1:A:1057:GLU:H	2.23	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.50	0.41
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.21	0.41
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.20	0.41
1:A:683:THR:HG21	1:A:725:LEU:HD11	2.02	0.41
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.73	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:449:GLN:O	1:B:452:ILE:HG22	2.20	0.41
1:B:527:ALA:HA	1:B:613:PRO:HB3	2.03	0.41
1:B:622:GLU:HB2	1:B:623:PHE:CD2	2.56	0.41
1:C:1045:LYS:HA	1:C:1046:PRO:HD3	1.90	0.41
1:C:1082:GLU:HA	1:C:1083:PRO:HD3	1.85	0.41
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.55	0.41
1:C:1407:LYS:HB2	1:F:1699:PRO:HD2	2.03	0.41
1:C:1564:HIS:ND1	1:C:1564:HIS:C	2.73	0.41
1:C:449:GLN:O	1:C:452:ILE:HG22	2.20	0.41
1:C:449:GLN:HG3	1:C:474:ILE:HD13	2.02	0.41
1:C:715:ASN:C	1:C:715:ASN:HD22	2.24	0.41
1:C:874:GLN:HB3	1:C:874:GLN:HE21	1.67	0.41
1:D:1000:ALA:HB3	1:D:1197:ALA:HB2	2.03	0.41
1:D:1604:TYR:N	1:D:1604:TYR:CD2	2.89	0.41
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.52	0.41
1:D:628:TYR:C	1:D:628:TYR:HD1	2.23	0.41
1:E:1055:THR:C	1:E:1057:GLU:H	2.25	0.41
1:E:1444:GLN:O	1:E:1447:VAL:HB	2.21	0.41
1:E:498:THR:HG21	1:E:858:LEU:HA	2.02	0.41
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.92	0.41
1:F:1220:ASN:HB3	1:F:1273:ILE:HG22	2.03	0.41
1:F:1400:VAL:HG11	1:F:1633:GLN:HB2	2.03	0.41
1:F:450:TYR:CE1	1:F:1551:ASN:HB2	2.56	0.41
1:F:1015:GLU:HA	1:F:1561:LEU:HD12	2.02	0.41
1:F:1586:VAL:HA	1:F:1587:PRO:HD3	1.80	0.41
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.98	0.41
2:G:1179:GLU:HB3	2:G:1193:LYS:HE3	2.03	0.41
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1471:GLU:HG3	2:G:1471:GLU:H	1.44	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.91	0.41
2:G:265:CYS:HA	2:G:275:LEU:HD12	2.03	0.41
2:G:300:THR:HG22	2:G:301:TRP:N	2.36	0.41
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.20	0.41
2:H:120:HIS:CD2	2:H:137:VAL:CG1	3.04	0.41
2:H:1291:ARG:HD2	2:H:1297:LYS:HG2	2.03	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.85	0.41
2:H:1558:GLU:O	2:H:1560:PRO:HD3	2.20	0.41
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.51	0.41
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.03	0.41
2:H:92:GLU:O	2:H:93:ASP:HB2	2.21	0.41
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.88	0.41
2:I:1325:VAL:HG22	2:I:1335:PHE:CD2	2.55	0.41
2:I:1429:VAL:O	2:I:1429:VAL:HG12	2.20	0.41
2:I:1587:TYR:O	2:I:1588:ASN:C	2.59	0.41
2:I:1589:PRO:CB	2:I:1596:PHE:CG	3.03	0.41
2:I:1808:PRO:O	2:I:1812:LEU:HD23	2.21	0.41
2:I:186:LEU:HD11	2:I:255:LEU:HD23	2.03	0.41
2:I:22:ARG:HD2	2:I:42:HIS:HB2	2.02	0.41
2:I:384:ASN:HB3	2:I:527:LEU:CD1	2.36	0.41
2:I:478:LEU:HD22	2:I:481:LEU:HD11	2.02	0.41
2:J:134:ILE:HG22	2:J:138:ARG:HH11	1.86	0.41
2:J:250:PHE:O	2:J:315:LEU:HD23	2.21	0.41
2:J:310:ARG:HH11	2:J:460:ILE:CD1	2.34	0.41
2:J:856:THR:HG22	2:J:865:ILE:O	2.21	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.76	0.41
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.56	0.41
2:K:1180:VAL:HG11	2:K:1187:PHE:CD2	2.55	0.41
2:K:1355:LYS:O	2:K:1359:LYS:HG3	2.21	0.41
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	2.03	0.41
2:L:129:ILE:CG1	2:L:129:ILE:O	2.69	0.41
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.89	0.41
2:L:1350:ILE:HD13	2:L:1350:ILE:HA	1.72	0.41
2:L:192:THR:C	2:L:194:PRO:HD3	2.41	0.41
2:L:691:THR:OG1	2:L:715:SER:HB3	2.21	0.41
2:L:783:GLY:CA	2:L:815:ARG:HD3	2.51	0.41
2:L:798:THR:HA	2:L:802:TYR:O	2.21	0.41
1:A:1202:GLY:HA3	1:A:1661:ARG:HD3	2.02	0.41
1:A:72:THR:O	1:A:72:THR:HG22	2.20	0.41
1:A:846:TRP:CH2	1:A:863:VAL:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:991:ASP:HA	1:A:1364:THR:CG2	2.50	0.41
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.17	0.41
1:B:1604:TYR:N	1:B:1604:TYR:CD2	2.89	0.41
1:B:1662:GLN:HB3	1:B:1662:GLN:HE21	1.69	0.41
1:B:408:GLN:HE22	1:B:1609:SER:N	2.19	0.41
1:B:413:MET:O	1:B:416:ASP:HB2	2.21	0.41
1:B:799:LEU:HD12	1:B:821:LEU:HB3	2.03	0.41
1:B:663:GLY:O	1:B:852:LEU:HD11	2.21	0.41
1:C:1638:HIS:HA	1:C:1639:PRO:HD3	1.98	0.41
1:C:1685:ALA:HB1	1:C:1686:PRO:HD2	2.03	0.41
1:C:400:ASP:OD1	1:C:400:ASP:C	2.59	0.41
1:C:759:ILE:N	1:C:759:ILE:HD12	2.36	0.41
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.51	0.41
1:D:1083:PRO:HB3	1:D:1089:TYR:O	2.20	0.41
1:D:1342:ARG:HB3	1:D:1345:SER:HB2	2.03	0.41
1:D:1640:LYS:CG	1:D:1641:TYR:CD1	3.04	0.41
1:D:828:TRP:NE1	1:D:838:THR:HA	2.30	0.41
1:D:829:TYR:OH	1:D:896:PRO:HD2	2.21	0.41
1:E:1199:LEU:O	1:E:1199:LEU:HD23	2.21	0.41
1:E:407:ARG:HB3	1:E:447:PHE:CE2	2.56	0.41
1:F:918:LEU:HD23	1:F:921:GLU:OE2	2.21	0.41
2:G:1153:ASN:HD22	2:G:1153:ASN:HA	1.58	0.41
2:G:114:MET:HG2	2:G:122:ILE:HG21	2.03	0.41
2:G:747:ARG:HD2	2:G:780:SER:OG	2.21	0.41
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.77	0.41
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.55	0.41
2:H:1602:LEU:HB3	2:H:1606:ILE:HD11	2.02	0.41
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.86	0.41
2:H:604:MET:HG3	2:H:627:HIS:O	2.20	0.41
2:H:705:TYR:HA	2:H:709:LEU:CD2	2.51	0.41
2:H:868:LEU:HA	2:H:868:LEU:HD12	1.73	0.41
2:I:930:THR:HA	2:I:1007:LEU:HA	2.01	0.41
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	2.03	0.41
2:I:1261:PHE:CE2	2:I:1285:ILE:HD11	2.54	0.41
2:I:129:ILE:O	2:I:129:ILE:HG13	2.21	0.41
2:I:1335:PHE:CD1	2:I:1629:ILE:HD11	2.55	0.41
2:I:1383:VAL:HA	2:I:1384:PRO:HD3	1.96	0.41
2:I:1767:GLU:CB	2:I:2016:PRO:CG	2.91	0.41
2:I:1704:MET:SD	2:I:1810:LEU:HD23	2.60	0.41
2:I:1891:ILE:HD11	2:I:1943:LEU:HD22	2.03	0.41
2:I:306:THR:O	2:I:310:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:342:ASN:CB	2:I:406:ARG:NH2	2.83	0.41
2:I:612:THR:HG21	2:I:629:GLU:O	2.21	0.41
2:I:764:MET:O	2:I:768:ILE:HG13	2.21	0.41
2:I:858:LEU:HD23	2:I:864:PRO:HA	2.02	0.41
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.03	0.41
2:J:1131:ASP:C	2:J:1133:LEU:H	2.24	0.41
2:J:2005:PHE:HA	2:J:2010:LEU:CD1	2.30	0.41
3:J:2101:FMN:O4'	3:J:2101:FMN:H1'2	2.20	0.41
2:J:649:GLU:HG3	2:J:650:LYS:N	2.35	0.41
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.50	0.41
2:K:1028:VAL:HG13	2:K:1030:PHE:H	1.86	0.41
2:K:1220:ARG:HB3	2:K:1228:LEU:HB2	2.03	0.41
2:K:182:TYR:CD1	2:K:182:TYR:C	2.95	0.41
2:K:785:SER:HB3	2:K:1094:HIS:HD2	1.83	0.41
2:L:1515:LEU:HB3	2:L:1525:VAL:HG21	2.01	0.41
2:L:1293:TRP:NE1	2:L:1586:ASP:OD1	2.47	0.41
2:L:26:LEU:HD22	2:L:53:LEU:HD21	2.03	0.41
2:L:349:PRO:O	2:L:392:THR:HG22	2.20	0.41
2:L:58:GLN:HA	2:L:59:PRO:HD3	1.95	0.41
2:L:615:TRP:CE3	2:L:647:LYS:HB3	2.55	0.41
2:L:725:GLN:HE21	2:L:767:ARG:HH11	1.69	0.41
2:L:762:LEU:HD11	2:L:800:PHE:CB	2.51	0.41
2:L:796:TRP:CG	2:L:797:SER:N	2.88	0.41
1:A:1037:ASN:CB	1:A:1674:ILE:HG23	2.51	0.41
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.21	0.41
1:A:349:MET:O	1:A:349:MET:HG3	2.21	0.41
1:B:995:VAL:CG1	1:B:1375:ILE:HG23	2.51	0.41
1:B:1447:VAL:HG21	1:B:1467:LEU:HD11	2.02	0.41
1:B:1467:LEU:HA	1:B:1467:LEU:HD23	1.93	0.41
1:B:1699:PRO:HD2	1:D:1407:LYS:HB2	2.02	0.41
1:B:421:ARG:HH22	1:B:1613:LYS:CB	2.33	0.41
1:B:450:TYR:C	1:B:450:TYR:CD2	2.94	0.41
1:B:564:LEU:HD13	1:B:564:LEU:O	2.20	0.41
1:C:1638:HIS:CG	1:C:1639:PRO:HD2	2.56	0.41
1:C:22:PHE:HE1	2:I:1867:MET:HG2	1.85	0.41
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.03	0.41
1:D:1400:VAL:HG11	1:D:1633:GLN:HB2	2.03	0.41
1:E:1078:ILE:CB	1:E:1338:GLY:HA2	2.50	0.41
1:E:667:ALA:O	1:E:670:LEU:HB3	2.20	0.41
1:C:1388:LYS:HD3	1:F:1692:GLN:NE2	2.36	0.41
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1602:LEU:HD22	2:G:1606:ILE:HD11	2.03	0.41
2:G:1621:GLU:HG2	2:G:1632:VAL:HG11	2.02	0.41
2:G:215:TRP:HE3	2:G:216:ASP:N	2.07	0.41
2:G:659:THR:HA	2:G:689:GLY:O	2.21	0.41
2:G:68:GLU:HB3	2:G:69:PRO:HD2	2.03	0.41
2:G:713:HIS:HD2	2:G:740:ILE:HD13	1.85	0.41
2:G:955:LEU:O	2:G:959:THR:HG23	2.22	0.41
2:G:990:TYR:N	2:G:991:PRO:CD	2.84	0.41
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.86	0.41
2:H:196:PHE:CD2	2:H:266:LYS:CB	3.03	0.41
2:H:310:ARG:HH11	2:H:460:ILE:CD1	2.34	0.41
2:H:44:GLN:HE21	2:H:48:LEU:HD21	1.86	0.41
2:H:625:GLY:C	2:H:656:ARG:NH2	2.75	0.41
2:H:717:LYS:HD2	3:H:2101:FMN:O2	2.21	0.41
2:I:1266:HIS:C	2:I:1268:GLU:N	2.75	0.41
2:I:1346:MET:HB2	2:I:1427:MET:HE1	2.03	0.41
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.03	0.41
2:I:1712:SER:HA	2:I:1713:PRO:HD3	1.90	0.41
2:I:460:ILE:HA	2:I:461:PRO:HD3	1.79	0.41
2:J:1067:LEU:HD12	2:J:1067:LEU:H	1.85	0.41
2:J:1607:THR:HG22	2:J:1608:HIS:N	2.35	0.41
2:J:350:MET:SD	2:J:392:THR:CG2	3.09	0.41
2:J:741:LEU:CG	2:J:741:LEU:O	2.68	0.41
2:K:783:GLY:HA3	2:K:1075:TYR:CG	2.56	0.41
2:K:1462:GLN:O	2:K:1466:VAL:HG23	2.21	0.41
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.21	0.41
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.86	0.41
2:K:161:ALA:HA	2:K:164:GLU:HB2	2.03	0.41
2:K:134:ILE:HG12	2:K:545:ILE:CD1	2.51	0.41
2:K:759:GLN:O	2:K:763:LEU:HB2	2.21	0.41
2:L:1022:ARG:H	2:L:1022:ARG:HG2	1.67	0.41
2:L:1071:VAL:HG23	2:L:1074:LYS:HE2	2.03	0.41
2:L:1589:PRO:HB3	2:L:1596:PHE:CD1	2.56	0.41
2:L:1998:LEU:HB2	2:L:2001:ILE:HD12	2.02	0.41
1:A:1232:LEU:HD23	1:A:1232:LEU:HA	1.84	0.40
1:A:689:ARG:NH2	1:A:1591:ASN:ND2	2.68	0.40
1:A:405:TRP:HA	1:A:405:TRP:CE3	2.56	0.40
1:A:422:LEU:HB3	1:A:429:ILE:CD1	2.49	0.40
1:A:918:LEU:HA	1:A:921:GLU:CG	2.51	0.40
1:A:943:VAL:HG12	1:A:944:ASN:OD1	2.21	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1220:ASN:HB3	1:B:1273:ILE:HG22	2.03	0.40
1:B:357:ALA:HB1	1:E:358:PHE:CE1	2.56	0.40
1:B:407:ARG:HG3	1:B:407:ARG:H	1.62	0.40
1:B:452:ILE:HD11	1:B:470:GLY:HA3	2.02	0.40
1:B:689:ARG:NH1	1:B:1339:GLU:OE2	2.54	0.40
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.40
1:C:991:ASP:HA	1:C:1364:THR:CG2	2.52	0.40
1:D:1202:GLY:HA3	1:D:1661:ARG:HD3	2.04	0.40
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.21	0.40
1:D:1381:MET:HE3	1:D:1403:THR:HB	2.03	0.40
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.22	0.40
1:D:1472:GLU:O	1:D:1475:GLU:HB2	2.21	0.40
1:D:358:PHE:HD2	1:D:359:VAL:N	2.19	0.40
1:D:670:LEU:HD11	1:D:680:VAL:HG21	2.03	0.40
1:E:1050:TRP:HE3	1:E:1050:TRP:HA	1.84	0.40
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.40
1:A:1297:GLY:HA2	1:E:1496:ARG:CZ	2.51	0.40
1:E:1015:GLU:HA	1:E:1561:LEU:HD12	2.03	0.40
1:E:484:PRO:HG3	1:E:651:GLN:OE1	2.22	0.40
1:E:967:PHE:HB3	1:E:968:PRO:CD	2.50	0.40
1:F:1150:ILE:HA	1:F:1151:PRO:HD3	1.92	0.40
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.19	0.40
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.55	0.40
2:G:1245:THR:HG23	2:G:1260:THR:OG1	2.21	0.40
2:G:1419:LEU:HA	2:G:1419:LEU:HD23	1.89	0.40
2:G:1901:GLN:HB3	2:G:1905:GLU:OE2	2.21	0.40
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.21	0.40
2:G:585:VAL:HG12	2:G:585:VAL:O	2.21	0.40
2:G:608:MET:HA	3:G:2101:FMN:C5A	2.51	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.86	0.40
2:G:604:MET:HG3	2:G:627:HIS:HD2	1.86	0.40
2:G:771:CYS:HB3	2:G:774:ILE:CD1	2.48	0.40
2:G:785:SER:HB3	2:G:1094:HIS:CD2	2.56	0.40
2:G:995:ARG:O	2:G:998:ALA:HB3	2.21	0.40
2:H:828:ALA:HA	2:H:1061:VAL:HG11	2.03	0.40
2:H:1071:VAL:HG23	2:H:1074:LYS:HE2	2.04	0.40
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.13	0.40
2:H:1804:GLN:O	2:H:1861:PHE:HD1	2.04	0.40
2:H:2052:LYS:CE	2:H:2052:LYS:H	2.11	0.40
2:H:336:LEU:C	2:H:336:LEU:HD23	2.41	0.40
2:H:369:ASN:HB3	2:H:377:HIS:ND1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:376:ARG:HA	2:H:443:TYR:OH	2.21	0.40
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.20	0.40
2:H:879:LEU:HB3	2:H:884:PHE:CE1	2.56	0.40
2:H:915:PHE:O	2:H:915:PHE:CG	2.74	0.40
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.51	0.40
2:I:1227:LYS:HG2	2:I:1228:LEU:HG	2.02	0.40
2:I:1460:THR:HB	2:I:1463:ASP:OD1	2.21	0.40
2:I:1610:MET:HE2	2:I:1613:SER:HB3	2.03	0.40
2:I:1799:LEU:C	2:I:1801:SER:H	2.23	0.40
2:I:350:MET:HE3	2:I:435:ILE:HD12	2.02	0.40
2:J:1205:GLU:O	2:J:1217:ILE:HA	2.21	0.40
2:J:1224:GLN:HG3	2:J:1578:GLU:OE2	2.20	0.40
2:J:1863:ARG:O	2:J:1867:MET:HG3	2.20	0.40
2:J:251:PRO:HG3	2:J:316:PHE:N	2.36	0.40
2:J:92:GLU:C	2:J:94:ALA:H	2.25	0.40
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.50	0.40
2:K:1658:MET:CE	2:K:1826:LEU:HD23	2.51	0.40
2:K:1851:MET:SD	2:K:1856:LEU:HA	2.61	0.40
1:E:26:VAL:CG2	2:K:2006:HIS:CE1	3.05	0.40
2:K:540:ILE:CD1	2:K:557:GLU:HB3	2.48	0.40
2:L:1220:ARG:HB3	2:L:1228:LEU:HB2	2.03	0.40
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.86	0.40
2:L:161:ALA:HA	2:L:164:GLU:HB2	2.03	0.40
2:L:717:LYS:HD2	3:L:2101:FMN:O2	2.20	0.40
2:L:731:ALA:HB1	2:L:771:CYS:SG	2.61	0.40
1:A:1426:GLU:HA	1:A:1429:ARG:HG3	2.03	0.40
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.54	0.40
1:B:450:TYR:CZ	1:B:1551:ASN:HB2	2.56	0.40
1:B:740:LEU:HA	1:B:740:LEU:HD23	1.81	0.40
1:B:948:HIS:O	1:B:952:TYR:CD2	2.74	0.40
1:C:1000:ALA:HB3	1:C:1197:ALA:HB2	2.03	0.40
1:C:1364:THR:CG2	1:C:1366:GLN:HB2	2.51	0.40
1:C:1015:GLU:HA	1:C:1561:LEU:HD12	2.04	0.40
1:C:565:GLN:CG	1:C:565:GLN:O	2.69	0.40
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.57	0.40
1:B:1687:TYR:OH	1:D:1388:LYS:HB3	2.21	0.40
1:D:622:GLU:HB2	1:D:623:PHE:CD2	2.56	0.40
1:D:767:HIS:NE2	1:D:771:LEU:CD2	2.82	0.40
1:D:739:ASP:OD2	1:D:790:TYR:CG	2.74	0.40
1:D:918:LEU:HD23	1:D:921:GLU:OE2	2.22	0.40
1:E:1149:LEU:HD23	1:E:1149:LEU:HA	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1400:VAL:H	1:E:1400:VAL:HG23	1.66	0.40
1:E:61:LEU:HA	1:E:65:TYR:HB2	2.03	0.40
1:E:504:GLY:O	1:E:926:SER:HB2	2.21	0.40
1:F:1042:LEU:HA	1:F:1042:LEU:HD23	1.76	0.40
1:F:1638:HIS:ND1	1:F:1639:PRO:CD	2.84	0.40
1:F:358:PHE:HD2	1:F:359:VAL:N	2.19	0.40
2:G:917:ARG:NH1	2:G:1057:TYR:OH	2.54	0.40
2:G:1220:ARG:HB3	2:G:1228:LEU:HB2	2.03	0.40
2:G:1251:THR:CG2	2:G:1292:VAL:HG13	2.50	0.40
2:G:1355:LYS:O	2:G:1359:LYS:HG3	2.22	0.40
2:G:1403:ALA:CB	2:G:1447:GLN:HA	2.51	0.40
2:G:1692:TYR:CD1	2:G:1847:LEU:HD21	2.49	0.40
2:G:555:LYS:HG2	2:G:559:PHE:HE1	1.86	0.40
2:G:718:PRO:HG2	2:G:741:LEU:HD11	2.03	0.40
2:H:47:GLN:HG3	2:I:23:PRO:CD	2.50	0.40
2:I:1032:PRO:O	2:I:1033:ALA:HB2	2.22	0.40
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.22	0.40
2:I:1180:VAL:HG11	2:I:1187:PHE:CD2	2.57	0.40
2:I:129:ILE:CG1	2:I:129:ILE:O	2.68	0.40
2:I:1224:GLN:CG	2:I:1578:GLU:OE2	2.67	0.40
2:I:1866:THR:CA	2:I:1869:VAL:HG22	2.50	0.40
2:I:300:THR:O	2:I:304:PHE:HB2	2.21	0.40
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:I:462:ALA:HB3	2:I:481:LEU:O	2.21	0.40
2:I:595:SER:CB	2:I:602:PRO:HG3	2.33	0.40
2:I:883:ILE:HG22	2:I:884:PHE:N	2.36	0.40
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.41	0.40
2:J:1180:VAL:HG11	2:J:1187:PHE:CD2	2.56	0.40
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.35	0.40
2:J:1266:HIS:CE1	2:J:1275:ARG:CD	2.93	0.40
2:J:1317:ASN:OD1	2:J:1319:GLN:HB3	2.20	0.40
2:J:141:TYR:HA	2:J:144:ARG:HB3	2.03	0.40
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.39	0.40
2:J:1708:LEU:HD22	2:J:1708:LEU:O	2.21	0.40
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.56	0.40
2:J:1871:VAL:HG12	2:J:1872:GLU:N	2.36	0.40
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.85	0.40
2:J:196:PHE:CD2	2:J:266:LYS:CB	3.05	0.40
2:J:369:ASN:HB3	2:J:377:HIS:ND1	2.37	0.40
2:J:689:GLY:HA3	2:J:713:HIS:CE1	2.56	0.40
2:J:944:VAL:HG11	2:J:1055:ALA:HA	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:113:PHE:HD1	2:K:113:PHE:N	2.19	0.40
2:K:1179:GLU:HB3	2:K:1193:LYS:HE3	2.03	0.40
2:K:1179:GLU:O	2:K:1190:ASN:N	2.53	0.40
2:K:1764:MET:CE	2:K:1865:LEU:CD1	2.98	0.40
2:K:276:LEU:HD22	2:K:466:VAL:CG1	2.51	0.40
2:L:1098:LEU:HD12	2:L:1098:LEU:HA	1.91	0.40
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.51	0.40
2:L:1206:ILE:O	2:L:1209:PRO:HG3	2.21	0.40
2:L:1588:ASN:OD1	2:L:1589:PRO:HD2	2.21	0.40
2:K:332:ALA:N	2:L:1627:ASN:ND2	2.70	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.88	0.40
2:L:44:GLN:HE21	2:L:48:LEU:HD21	1.85	0.40
2:L:727:VAL:HA	2:L:730:ILE:CG1	2.51	0.40
2:L:883:ILE:HG22	2:L:884:PHE:N	2.35	0.40
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.40
1:A:1313:GLU:HG2	1:A:1313:GLU:H	1.48	0.40
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	2.03	0.40
1:A:447:PHE:HA	1:A:1550:GLY:O	2.22	0.40
1:A:740:LEU:HA	1:A:740:LEU:HD23	1.94	0.40
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.92	0.40
1:B:1160:VAL:HB	1:B:1352:MET:CE	2.51	0.40
1:B:538:ARG:HD2	1:B:542:GLN:NE2	2.36	0.40
1:C:1342:ARG:NH1	1:C:1347:THR:CB	2.65	0.40
1:C:1400:VAL:HG11	1:C:1633:GLN:HB2	2.03	0.40
1:D:740:LEU:HD12	1:D:781:ILE:HD13	2.02	0.40
1:D:921:GLU:HG3	1:D:922:ILE:H	1.85	0.40
1:E:1081:ILE:HD12	1:E:1091:PRO:CG	2.52	0.40
1:E:1162:GLY:O	1:E:1354:SER:HA	2.21	0.40
1:E:358:PHE:HD2	1:E:359:VAL:N	2.19	0.40
1:E:567:ASN:O	1:E:571:LYS:HG3	2.20	0.40
1:E:859:VAL:HG13	1:E:918:LEU:HD13	2.02	0.40
1:C:1097:LEU:CD1	1:F:1149:LEU:HD12	2.50	0.40
1:F:447:PHE:HE1	1:F:451:HIS:HE2	1.70	0.40
1:F:626:TRP:CZ3	1:F:898:PHE:HB2	2.56	0.40
2:G:1227:LYS:HG2	2:G:1228:LEU:HG	2.02	0.40
2:G:1700:GLN:HG2	2:G:1700:GLN:O	2.21	0.40
2:G:172:ILE:HG22	2:G:514:VAL:O	2.21	0.40
2:G:1741:ASN:HD21	2:G:1798:GLY:HA3	1.86	0.40
2:G:1764:MET:O	2:G:1780:ILE:HG13	2.21	0.40
2:G:2044:THR:HG21	2:G:2054:TYR:OH	2.21	0.40
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.36	0.40
2:H:1299:VAL:O	2:H:1301:PHE:HD2	2.03	0.40
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.20	0.40
2:H:314:LEU:O	2:H:318:ILE:HG13	2.20	0.40
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.56	0.40
2:H:740:ILE:HA	2:H:775:VAL:HB	2.03	0.40
2:H:906:LEU:HA	2:H:906:LEU:HD22	1.85	0.40
2:I:1084:LYS:O	2:I:1088:ASP:HB2	2.21	0.40
2:I:1325:VAL:HG22	2:I:1335:PHE:HD2	1.87	0.40
2:I:126:VAL:O	2:I:133:LYS:HE3	2.22	0.40
2:I:26:LEU:HD22	2:I:53:LEU:HD21	2.03	0.40
2:I:727:VAL:HA	2:I:730:ILE:CG1	2.51	0.40
2:I:871:ARG:HB2	2:I:909:ASP:HB2	2.03	0.40
2:I:995:ARG:O	2:I:998:ALA:HB3	2.20	0.40
2:J:1097:PHE:HD2	2:J:1100:ARG:NH1	2.15	0.40
2:J:1944:ASN:HA	2:J:1993:PHE:CE1	2.55	0.40
2:J:420:PRO:HB2	2:J:423:GLN:HB2	2.04	0.40
2:J:618:VAL:HG13	2:J:619:ALA:N	2.36	0.40
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.35	0.40
2:K:1175:MET:HA	2:K:1274:ILE:HD11	2.02	0.40
2:K:129:ILE:HG21	2:K:132:LYS:CG	2.51	0.40
2:K:1589:PRO:HB2	2:K:1596:PHE:HB3	2.03	0.40
2:K:1631:ARG:CZ	2:K:1688:PRO:HA	2.51	0.40
2:K:1948:MET:HE1	2:K:1948:MET:HA	2.02	0.40
2:K:233:ASN:HA	2:K:234:PRO:HD3	1.88	0.40
2:K:277:GLU:HA	2:K:277:GLU:OE2	2.21	0.40
2:K:625:GLY:C	2:K:656:ARG:NH2	2.75	0.40
2:K:699:ILE:HD12	2:K:699:ILE:H	1.85	0.40
2:K:739:ILE:HG13	2:K:773:ASN:HB3	2.03	0.40
2:K:922:GLU:HA	2:K:923:PRO:HD3	1.90	0.40
2:L:1179:GLU:HB3	2:L:1193:LYS:HE3	2.02	0.40
2:L:200:LEU:O	2:L:204:ILE:HG13	2.21	0.40
2:L:976:GLN:HA	2:L:977:PRO:HD3	1.87	0.40
1:A:1191:LEU:HA	1:A:1191:LEU:HD23	1.94	0.40
1:A:1400:VAL:HG11	1:A:1633:GLN:HB2	2.02	0.40
1:A:635:ILE:HG13	1:A:635:ILE:H	1.58	0.40
1:A:828:TRP:NE1	1:A:838:THR:HA	2.35	0.40
1:B:683:THR:HB	1:B:714:PHE:CB	2.44	0.40
1:B:391:PHE:CZ	1:B:728:TYR:HB2	2.57	0.40
1:C:1106:LEU:HD13	1:C:1142:LEU:HD13	2.03	0.40
1:C:1232:LEU:HD21	1:F:1232:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1420:TYR:OH	1:F:1473:HIS:CE1	2.74	0.40
1:C:1554:LEU:HD23	1:C:1606:VAL:HG12	2.02	0.40
1:C:486:VAL:HG22	1:C:648:LEU:C	2.41	0.40
1:C:617:LEU:N	1:C:617:LEU:HD23	2.37	0.40
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.55	0.40
1:C:983:GLN:O	1:C:987:MET:HG3	2.21	0.40
1:B:1229:THR:HG23	1:D:1236:TYR:OH	2.22	0.40
1:D:538:ARG:CG	1:D:579:MET:HE3	2.51	0.40
1:D:799:LEU:HD11	1:D:821:LEU:HD22	2.02	0.40
1:E:1581:LEU:HA	1:E:1581:LEU:HD23	1.90	0.40
1:E:1685:ALA:HB1	1:E:1686:PRO:HD2	2.04	0.40
1:E:14:LEU:HD13	1:E:18:LEU:HG	2.02	0.40
1:E:683:THR:HG21	1:E:725:LEU:HD11	2.04	0.40
1:F:1262:VAL:HG12	1:F:1267:LEU:HD21	2.03	0.40
1:F:1615:ASP:OD1	1:F:1615:ASP:N	2.55	0.40
1:F:444:LEU:HD22	1:F:448:MET:CG	2.52	0.40
1:F:490:VAL:HG12	1:F:490:VAL:O	2.21	0.40
1:F:511:VAL:HG12	1:F:512:PRO:HD2	2.02	0.40
1:F:36:LEU:O	1:F:76:ARG:NH2	2.53	0.40
1:F:943:VAL:HG12	1:F:944:ASN:OD1	2.22	0.40
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.52	0.40
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.57	0.40
2:G:129:ILE:HG21	2:G:132:LYS:HG3	2.03	0.40
2:G:1462:GLN:O	2:G:1466:VAL:HG23	2.21	0.40
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.22	0.40
2:G:617:PHE:HD1	2:G:822:ALA:CA	2.35	0.40
2:G:730:ILE:O	2:G:733:ALA:HB3	2.21	0.40
1:B:1037:ASN:ND2	2:H:1011:GLN:HG2	2.35	0.40
2:H:1092:ASN:HA	2:H:1095:ILE:CG1	2.46	0.40
2:H:1157:VAL:O	2:H:1161:MET:HG3	2.21	0.40
2:H:1204:VAL:HA	2:H:1218:SER:O	2.21	0.40
2:H:1632:VAL:HB	2:H:1685:VAL:HG22	2.02	0.40
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.01	0.40
2:H:489:GLU:HG2	2:H:492:ARG:NH1	2.37	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.82	0.40
2:H:741:LEU:O	2:H:741:LEU:CG	2.69	0.40
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.42	0.40
2:I:1015:HIS:CD2	2:I:1019:LEU:HD11	2.56	0.40
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.03	0.40
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.56	0.40
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:769:ARG:HA	2:I:769:ARG:HD3	1.81	0.40
2:I:779:GLY:HA3	2:I:811:MET:HB3	2.04	0.40
2:I:834:ASP:O	2:I:836:PRO:HD3	2.20	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.76	0.40
2:J:1084:LYS:HE3	2:J:1088:ASP:OD2	2.22	0.40
2:J:1276:GLU:HB3	2:J:1278:MET:CE	2.51	0.40
2:J:1333:GLU:HG3	2:J:1338:ARG:HD2	2.03	0.40
1:D:17:LEU:HD22	2:J:2041:PRO:HB3	2.02	0.40
2:J:356:LEU:HA	2:J:356:LEU:HD23	1.66	0.40
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.53	0.40
2:J:644:ALA:O	2:J:648:ILE:HG13	2.21	0.40
2:J:652:ILE:HG23	2:J:656:ARG:HB2	2.03	0.40
2:K:1009:ASN:HD22	2:K:1010:ALA:N	2.19	0.40
2:K:1064:THR:CG2	2:K:1065:CYS:N	2.84	0.40
2:K:1153:ASN:HA	2:K:1153:ASN:HD22	1.58	0.40
2:K:1374:VAL:CG2	2:K:1436:ARG:NE	2.85	0.40
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.44	0.40
2:K:1523:ILE:HD12	2:K:1523:ILE:N	2.36	0.40
2:K:1616:VAL:O	2:K:1620:VAL:HG23	2.21	0.40
2:K:1722:ALA:CB	2:K:1812:LEU:HD11	2.52	0.40
2:K:197:VAL:HG11	2:K:259:ALA:HB1	2.03	0.40
2:K:57:PRO:HG3	2:K:68:GLU:CG	2.41	0.40
2:K:769:ARG:HD3	2:K:769:ARG:HA	1.78	0.40
2:K:865:ILE:HG22	2:K:867:LYS:HG3	2.03	0.40
2:K:917:ARG:NH1	2:K:1057:TYR:OH	2.55	0.40
2:L:867:LYS:NZ	2:L:1065:CYS:SG	2.90	0.40
2:L:1380:TYR:N	2:L:1380:TYR:CD2	2.89	0.40
2:L:1489:VAL:HB	2:L:1514:LEU:HB2	2.03	0.40
2:L:2044:THR:HG21	2:L:2054:TYR:OH	2.21	0.40
2:L:350:MET:SD	2:L:392:THR:CG2	3.10	0.40
1:A:1228:GLY:O	1:A:1232:LEU:HB2	2.22	0.40
1:B:1055:THR:C	1:B:1057:GLU:H	2.25	0.40
1:B:701:ARG:NH1	1:B:1610:ARG:HH21	2.19	0.40
1:B:1638:HIS:CG	1:B:1639:PRO:HD2	2.55	0.40
1:B:1030:TRP:CE2	1:B:1673:LEU:HD22	2.57	0.40
1:B:29:ILE:HG22	1:B:30:GLU:N	2.37	0.40
1:B:755:GLU:C	1:B:757:ASP:N	2.75	0.40
1:C:1301:VAL:HG23	1:C:1363:MET:CG	2.51	0.40
1:C:1589:ASN:OD1	1:C:1589:ASN:C	2.60	0.40
1:C:1638:HIS:ND1	1:C:1639:PRO:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:454:HIS:CD2	1:C:454:HIS:N	2.89	0.40
1:C:511:VAL:CG1	1:C:512:PRO:HD2	2.51	0.40
1:C:620:LYS:HA	1:C:625:ASN:O	2.21	0.40
1:C:799:LEU:HD11	1:C:821:LEU:HD22	2.03	0.40
1:D:1199:LEU:C	1:D:1201:SER:N	2.75	0.40
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.52	0.40
1:E:1210:TYR:CE1	1:E:1215:LEU:HD23	2.57	0.40
1:E:742:TYR:CE1	1:E:884:MET:HB3	2.57	0.40
1:E:921:GLU:HG3	1:E:922:ILE:N	2.37	0.40
1:F:1426:GLU:HA	1:F:1429:ARG:HG3	2.03	0.40
1:F:1447:VAL:HG21	1:F:1467:LEU:HD11	2.02	0.40
1:F:1638:HIS:CG	1:F:1639:PRO:HD2	2.56	0.40
1:F:767:HIS:NE2	1:F:771:LEU:CD2	2.85	0.40
1:F:46:GLU:HB3	1:F:80:CYS:HA	2.02	0.40
2:G:1064:THR:CG2	2:G:1065:CYS:N	2.84	0.40
2:G:626:TYR:OH	2:G:1088:ASP:HA	2.22	0.40
1:A:942:VAL:O	2:G:1536:HIS:HB2	2.21	0.40
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.56	0.40
2:G:1835:GLY:HA3	2:G:1840:GLU:N	2.37	0.40
2:G:353:ILE:O	2:G:353:ILE:HG22	2.22	0.40
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.56	0.40
2:H:1217:ILE:H	2:H:1217:ILE:HG13	1.76	0.40
2:H:1712:SER:HA	2:H:1713:PRO:HD3	1.91	0.40
2:H:1795:SER:HA	2:H:1796:PRO:HD3	1.95	0.40
2:H:1944:ASN:HA	2:H:1993:PHE:CE1	2.56	0.40
2:H:440:HIS:HD2	2:H:497:ASP:O	2.03	0.40
2:I:1000:TYR:HA	2:I:1001:PRO:HD2	1.79	0.40
2:I:1299:VAL:O	2:I:1301:PHE:HD2	2.05	0.40
2:I:1741:ASN:HD21	2:I:1798:GLY:HA3	1.86	0.40
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.52	0.40
2:I:186:LEU:HA	2:I:186:LEU:HD23	1.79	0.40
2:I:1947:LYS:HE3	2:I:1948:MET:HE3	2.02	0.40
2:I:376:ARG:HA	2:I:443:TYR:OH	2.20	0.40
2:I:666:ASN:N	2:I:667:PRO:HD3	2.37	0.40
2:I:689:GLY:HA3	2:I:713:HIS:CE1	2.56	0.40
2:I:731:ALA:HB1	2:I:771:CYS:SG	2.62	0.40
2:J:1266:HIS:C	2:J:1268:GLU:H	2.24	0.40
2:J:1305:LEU:HD23	2:J:1366:ILE:CD1	2.52	0.40
2:J:1915:LEU:HD13	2:J:1936:LEU:HD22	2.03	0.40
2:J:549:ASN:C	2:J:549:ASN:HD22	2.25	0.40
2:J:608:MET:HE2	2:J:608:MET:HB3	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:625:GLY:C	2:J:656:ARG:HH22	2.25	0.40
2:J:787:ASP:O	2:J:790:PRO:HD2	2.22	0.40
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.36	0.40
2:K:1199:THR:CG2	2:K:1200:ARG:N	2.85	0.40
2:K:1366:ILE:O	2:K:1366:ILE:HG22	2.21	0.40
2:K:1250:ARG:NH1	2:K:1592:VAL:HG12	2.37	0.40
2:K:1804:GLN:O	2:K:1861:PHE:HD1	2.05	0.40
2:K:608:MET:HA	3:K:2101:FMN:N5	2.36	0.40
2:K:276:LEU:HD23	2:K:276:LEU:O	2.21	0.40
2:K:829:LYS:O	2:K:832:ILE:HB	2.22	0.40
2:K:92:GLU:C	2:K:94:ALA:H	2.24	0.40
2:L:1406:ASN:HB3	2:L:1411:LYS:HG3	2.03	0.40
2:L:1374:VAL:HG22	2:L:1436:ARG:HE	1.85	0.40
2:L:221:TYR:HE1	2:L:320:LEU:CD1	2.29	0.40
2:L:270:ARG:HB3	2:L:274:GLU:HB2	2.03	0.40
2:L:606:ALA:HB2	2:L:811:MET:HG3	2.04	0.40
2:L:764:MET:O	2:L:765:TYR:C	2.60	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)
2:H:1527:SER:O	2:K:19:GLN:NE2[2_646]	2.09	0.11
1:B:1452:SER:O	2:G:1092:ASN:ND2[1_556]	2.15	0.05

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1451/1878 (77%)	1291 (89%)	148 (10%)	12 (1%)	19	54
1	B	1458/1878 (78%)	1295 (89%)	151 (10%)	12 (1%)	19	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1456/1878 (78%)	1293 (89%)	151 (10%)	12 (1%)	19	54
1	D	1461/1878 (78%)	1290 (88%)	155 (11%)	16 (1%)	14	46
1	E	1450/1878 (77%)	1292 (89%)	146 (10%)	12 (1%)	19	54
1	F	1455/1878 (78%)	1300 (89%)	140 (10%)	15 (1%)	15	49
2	G	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	12	42
2	H	2058/2060 (100%)	1786 (87%)	244 (12%)	28 (1%)	11	40
2	I	2058/2060 (100%)	1799 (87%)	233 (11%)	26 (1%)	12	42
2	J	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	12	42
2	K	2058/2060 (100%)	1772 (86%)	258 (12%)	28 (1%)	11	40
2	L	2058/2060 (100%)	1777 (86%)	253 (12%)	28 (1%)	11	40
All	All	21079/23628 (89%)	18479 (88%)	2359 (11%)	241 (1%)	14	46

All (241) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1227	GLY
1	A	1566	LYS
1	A	1593	ASP
1	B	614	PHE
1	B	1566	LYS
1	B	1593	ASP
1	C	1566	LYS
1	C	1593	ASP
1	D	606	PRO
1	D	1566	LYS
1	D	1593	ASP
1	E	1227	GLY
1	E	1566	LYS
1	E	1593	ASP
1	F	613	PRO
1	F	1566	LYS
1	F	1593	ASP
2	G	1363	PRO
2	G	1478	GLN
2	H	1363	PRO
2	H	1478	GLN
2	I	1363	PRO
2	I	1478	GLN

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Mol	Chain	Res	Type
2	J	1363	PRO
2	J	1478	GLN
2	K	1048	TRP
2	K	1363	PRO
2	K	1478	GLN
2	L	1363	PRO
2	L	1478	GLN
1	A	852	LEU
1	B	609	VAL
1	B	852	LEU
1	B	1227	GLY
1	C	425	VAL
1	C	614	PHE
1	C	852	LEU
1	C	1227	GLY
1	C	1524	GLY
1	D	425	VAL
1	D	527	ALA
1	D	582	SER
1	D	852	LEU
1	D	1227	GLY
1	E	852	LEU
1	F	535	TYR
1	F	852	LEU
1	F	1227	GLY
1	F	1524	GLY
2	G	29	GLY
2	G	520	GLY
2	G	780	SER
2	G	915	PHE
2	G	1048	TRP
2	G	2076	LYS
2	H	29	GLY
2	H	520	GLY
2	H	780	SER
2	H	915	PHE
2	H	989	PRO
2	H	1048	TRP
2	H	1632	VAL
2	H	2076	LYS
2	I	29	GLY
2	I	520	GLY

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Mol	Chain	Res	Type
2	I	551	GLU
2	I	780	SER
2	I	989	PRO
2	I	1048	TRP
2	I	2076	LYS
2	J	29	GLY
2	J	520	GLY
2	J	780	SER
2	J	915	PHE
2	J	1048	TRP
2	J	1632	VAL
2	J	2076	LYS
2	K	29	GLY
2	K	520	GLY
2	K	780	SER
2	K	915	PHE
2	K	1688	PRO
2	K	2076	LYS
2	L	29	GLY
2	L	520	GLY
2	L	551	GLU
2	L	780	SER
2	L	989	PRO
2	L	1048	TRP
2	L	1739	LYS
2	L	2076	LYS
1	A	425	VAL
1	B	425	VAL
1	D	1524	GLY
1	E	1524	GLY
1	F	425	VAL
2	G	551	GLU
2	G	989	PRO
2	G	1632	VAL
2	G	1739	LYS
2	H	506	VAL
2	H	551	GLU
2	H	1739	LYS
2	I	915	PHE
2	I	1632	VAL
2	I	1739	LYS
2	J	551	GLU

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Mol	Chain	Res	Type
2	J	989	PRO
2	J	1739	LYS
2	K	286	SER
2	K	551	GLU
2	K	869	ALA
2	K	989	PRO
2	K	1739	LYS
2	L	915	PHE
1	A	614	PHE
1	A	1524	GLY
1	B	1524	GLY
1	D	526	MET
1	D	614	PHE
1	D	1462	ASP
1	E	425	VAL
1	E	1462	ASP
2	G	286	SER
2	G	694	ALA
2	G	841	ASP
2	G	1239	ASP
2	G	1567	THR
2	G	1878	ARG
2	H	286	SER
2	H	841	ASP
2	H	1125	ASP
2	H	1239	ASP
2	H	1567	THR
2	H	1878	ARG
2	I	286	SER
2	I	841	ASP
2	I	1567	THR
2	I	1878	ARG
2	J	286	SER
2	J	841	ASP
2	J	1239	ASP
2	J	1567	THR
2	J	1878	ARG
2	K	506	VAL
2	K	694	ALA
2	K	841	ASP
2	K	1239	ASP
2	K	1567	THR

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Mol	Chain	Res	Type
2	K	1878	ARG
2	L	286	SER
2	L	506	VAL
2	L	694	ALA
2	L	841	ASP
2	L	1239	ASP
2	L	1632	VAL
2	L	1878	ARG
1	B	1366	GLN
1	B	1462	ASP
1	C	1462	ASP
1	D	1366	GLN
1	E	1366	GLN
1	F	1056	GLY
1	F	1105	ASP
1	F	1366	GLN
1	F	1462	ASP
2	G	506	VAL
2	H	694	ALA
2	I	694	ALA
2	I	958	LEU
2	I	1239	ASP
2	K	466	VAL
2	L	1267	PRO
2	L	1567	THR
2	L	1588	ASN
1	A	1366	GLN
1	A	1462	ASP
2	G	1267	PRO
2	G	1750	GLY
2	H	1267	PRO
2	I	506	VAL
2	I	1267	PRO
2	I	1588	ASN
2	J	466	VAL
2	J	506	VAL
2	J	653	PRO
2	J	694	ALA
2	J	1588	ASN
2	J	1750	GLY
2	K	1632	VAL
2	L	466	VAL

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Mol	Chain	Res	Type
2	L	653	PRO
2	L	958	LEU
2	L	1249	GLY
2	L	1750	GLY
1	B	812	GLY
1	B	1409	GLY
1	D	812	GLY
1	F	1409	GLY
2	G	466	VAL
2	G	1588	ASN
2	H	466	VAL
2	H	653	PRO
2	H	1688	PRO
2	H	1750	GLY
2	I	466	VAL
2	I	653	PRO
2	I	1750	GLY
2	J	1267	PRO
2	K	434	PRO
2	K	653	PRO
2	K	1267	PRO
1	C	1409	GLY
1	D	1124	GLY
1	D	1409	GLY
1	E	1056	GLY
1	E	1505	GLY
2	G	434	PRO
2	H	1249	GLY
2	J	1249	GLY
2	K	1249	GLY
2	K	1588	ASN
2	K	1750	GLY
1	A	812	GLY
1	A	1124	GLY
1	C	1124	GLY
1	E	812	GLY
1	E	1409	GLY
2	H	1588	ASN
2	I	1249	GLY
2	L	434	PRO
1	A	1409	GLY
1	C	484	PRO

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Mol	Chain	Res	Type
1	C	812	GLY
2	G	1249	GLY
2	H	434	PRO
1	F	812	GLY
1	F	903	GLY
2	G	1056	VAL
2	J	434	PRO
2	L	151	PRO

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	1101 (90%)	119 (10%)	8	29
1	B	1227/1527 (80%)	1111 (90%)	116 (10%)	8	31
1	C	1225/1527 (80%)	1102 (90%)	123 (10%)	7	28
1	D	1229/1527 (80%)	1110 (90%)	119 (10%)	8	30
1	E	1219/1527 (80%)	1101 (90%)	118 (10%)	8	30
1	F	1224/1527 (80%)	1109 (91%)	115 (9%)	8	32
2	G	1752/1752 (100%)	1571 (90%)	181 (10%)	7	27
2	H	1752/1752 (100%)	1579 (90%)	173 (10%)	8	29
2	I	1752/1752 (100%)	1571 (90%)	181 (10%)	7	27
2	J	1752/1752 (100%)	1573 (90%)	179 (10%)	7	27
2	K	1752/1752 (100%)	1575 (90%)	177 (10%)	7	28
2	L	1752/1752 (100%)	1576 (90%)	176 (10%)	7	28
All	All	17856/19674 (91%)	16079 (90%)	1777 (10%)	7	28

All (1777) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	THR
1	A	14	LEU

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Mol	Chain	Res	Type
1	A	21	GLN
1	A	27	ARG
1	A	33	ASP
1	A	60	THR
1	A	335	LEU
1	A	361	SER
1	A	365	GLN
1	A	382	ILE
1	A	387	ILE
1	A	414	TYR
1	A	424	VAL
1	A	427	ARG
1	A	443	LEU
1	A	444	LEU
1	A	448	MET
1	A	457	THR
1	A	486	VAL
1	A	494	THR
1	A	517	ARG
1	A	536	SER
1	A	537	ASN
1	A	552	ILE
1	A	557	ARG
1	A	562	SER
1	A	570	TYR
1	A	623	PHE
1	A	628	TYR
1	A	680	VAL
1	A	684	THR
1	A	709	LEU
1	A	715	ASN
1	A	725	LEU
1	A	732	THR
1	A	736	LEU
1	A	751	GLU
1	A	754	ARG
1	A	770	MET
1	A	772	THR
1	A	783	THR
1	A	793	ARG
1	A	799	LEU
1	A	811	ASP

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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	848	ARG
1	A	856	ASN
1	A	874	GLN
1	A	883	LEU
1	A	919	ARG
1	A	921	GLU
1	A	946	GLU
1	A	970	LEU
1	A	995	VAL
1	A	999	LEU
1	A	1011	ARG
1	A	1039	ASN
1	A	1042	LEU
1	A	1055	THR
1	A	1061	ASP
1	A	1071	TYR
1	A	1079	ARG
1	A	1093	ARG
1	A	1131	GLU
1	A	1160	VAL
1	A	1183	VAL
1	A	1186	VAL
1	A	1220	ASN
1	A	1226	VAL
1	A	1232	LEU
1	A	1258	MET
1	A	1267	LEU
1	A	1308	ASP
1	A	1313	GLU
1	A	1324	THR
1	A	1340	MET
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR
1	A	1352	MET
1	A	1353	GLU
1	A	1357	CYS

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Mol	Chain	Res	Type
1	A	1360	GLN
1	A	1361	VAL
1	A	1367	LEU
1	A	1381	MET
1	A	1401	LEU
1	A	1422	ARG
1	A	1426	GLU
1	A	1432	ILE
1	A	1437	GLU
1	A	1441	LEU
1	A	1455	SER
1	A	1456	GLU
1	A	1457	GLU
1	A	1482	GLU
1	A	1491	ASN
1	A	1504	ARG
1	A	1514	ILE
1	A	1527	THR
1	A	1534	GLU
1	A	1538	ILE
1	A	1539	CYS
1	A	1561	LEU
1	A	1564	HIS
1	A	1602	PHE
1	A	1606	VAL
1	A	1610	ARG
1	A	1613	LYS
1	A	1623	THR
1	A	1646	LEU
1	A	1662	GLN
1	A	1673	LEU
1	A	1678	LEU
1	A	1702	ARG
1	B	12	THR
1	B	14	LEU
1	B	21	GLN
1	B	27	ARG
1	B	33	ASP
1	B	60	THR
1	B	335	LEU
1	B	361	SER
1	B	365	GLN

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Mol	Chain	Res	Type
1	B	382	ILE
1	B	387	ILE
1	B	414	TYR
1	B	424	VAL
1	B	427	ARG
1	B	444	LEU
1	B	448	MET
1	B	449	GLN
1	B	457	THR
1	B	486	VAL
1	B	494	THR
1	B	499	THR
1	B	517	ARG
1	B	536	SER
1	B	547	SER
1	B	551	LEU
1	B	557	ARG
1	B	567	ASN
1	B	574	ILE
1	B	586	GLN
1	B	623	PHE
1	B	628	TYR
1	B	680	VAL
1	B	688	SER
1	B	709	LEU
1	B	715	ASN
1	B	725	LEU
1	B	732	THR
1	B	736	LEU
1	B	751	GLU
1	B	754	ARG
1	B	770	MET
1	B	772	THR
1	B	783	THR
1	B	793	ARG
1	B	799	LEU
1	B	811	ASP
1	B	813	LEU
1	B	815	SER
1	B	817	SER
1	B	837	LEU
1	B	843	VAL

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Mol	Chain	Res	Type
1	B	848	ARG
1	B	856	ASN
1	B	874	GLN
1	B	883	LEU
1	B	919	ARG
1	B	921	GLU
1	B	946	GLU
1	B	970	LEU
1	B	988	VAL
1	B	995	VAL
1	B	999	LEU
1	B	1039	ASN
1	B	1042	LEU
1	B	1061	ASP
1	B	1071	TYR
1	B	1079	ARG
1	B	1093	ARG
1	B	1131	GLU
1	B	1160	VAL
1	B	1183	VAL
1	B	1186	VAL
1	B	1220	ASN
1	B	1226	VAL
1	B	1232	LEU
1	B	1258	MET
1	B	1267	LEU
1	B	1308	ASP
1	B	1313	GLU
1	B	1324	THR
1	B	1340	MET
1	B	1342	ARG
1	B	1344	THR
1	B	1347	THR
1	B	1352	MET
1	B	1353	GLU
1	B	1360	GLN
1	B	1361	VAL
1	B	1367	LEU
1	B	1381	MET
1	B	1401	LEU
1	B	1422	ARG
1	B	1426	GLU

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Mol	Chain	Res	Type
1	B	1432	ILE
1	B	1437	GLU
1	B	1441	LEU
1	B	1455	SER
1	B	1456	GLU
1	B	1457	GLU
1	B	1482	GLU
1	B	1491	ASN
1	B	1504	ARG
1	B	1514	ILE
1	B	1534	GLU
1	B	1538	ILE
1	B	1539	CYS
1	B	1561	LEU
1	B	1564	HIS
1	B	1602	PHE
1	B	1606	VAL
1	B	1610	ARG
1	B	1613	LYS
1	B	1646	LEU
1	B	1662	GLN
1	B	1678	LEU
1	B	1702	ARG
1	C	12	THR
1	C	14	LEU
1	C	21	GLN
1	C	27	ARG
1	C	33	ASP
1	C	82	CYS
1	C	335	LEU
1	C	342	ILE
1	C	361	SER
1	C	365	GLN
1	C	382	ILE
1	C	387	ILE
1	C	414	TYR
1	C	424	VAL
1	C	427	ARG
1	C	443	LEU
1	C	444	LEU
1	C	448	MET
1	C	449	GLN

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Mol	Chain	Res	Type
1	C	457	THR
1	C	486	VAL
1	C	494	THR
1	C	517	ARG
1	C	536	SER
1	C	547	SER
1	C	551	LEU
1	C	557	ARG
1	C	567	ASN
1	C	574	ILE
1	C	623	PHE
1	C	628	TYR
1	C	680	VAL
1	C	688	SER
1	C	709	LEU
1	C	715	ASN
1	C	725	LEU
1	C	732	THR
1	C	736	LEU
1	C	751	GLU
1	C	754	ARG
1	C	770	MET
1	C	772	THR
1	C	783	THR
1	C	793	ARG
1	C	799	LEU
1	C	811	ASP
1	C	813	LEU
1	C	815	SER
1	C	817	SER
1	C	837	LEU
1	C	843	VAL
1	C	848	ARG
1	C	856	ASN
1	C	874	GLN
1	C	883	LEU
1	C	919	ARG
1	C	921	GLU
1	C	946	GLU
1	C	970	LEU
1	C	988	VAL
1	C	995	VAL

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Mol	Chain	Res	Type
1	C	999	LEU
1	C	1039	ASN
1	C	1042	LEU
1	C	1055	THR
1	C	1061	ASP
1	C	1071	TYR
1	C	1079	ARG
1	C	1093	ARG
1	C	1131	GLU
1	C	1147	THR
1	C	1160	VAL
1	C	1183	VAL
1	C	1186	VAL
1	C	1220	ASN
1	C	1226	VAL
1	C	1232	LEU
1	C	1258	MET
1	C	1267	LEU
1	C	1308	ASP
1	C	1313	GLU
1	C	1324	THR
1	C	1340	MET
1	C	1342	ARG
1	C	1344	THR
1	C	1347	THR
1	C	1352	MET
1	C	1353	GLU
1	C	1360	GLN
1	C	1361	VAL
1	C	1367	LEU
1	C	1381	MET
1	C	1401	LEU
1	C	1422	ARG
1	C	1426	GLU
1	C	1432	ILE
1	C	1437	GLU
1	C	1441	LEU
1	C	1455	SER
1	C	1456	GLU
1	C	1457	GLU
1	C	1482	GLU
1	C	1491	ASN

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Mol	Chain	Res	Type
1	C	1504	ARG
1	C	1514	ILE
1	C	1527	THR
1	C	1534	GLU
1	C	1538	ILE
1	C	1539	CYS
1	C	1561	LEU
1	C	1564	HIS
1	C	1602	PHE
1	C	1606	VAL
1	C	1610	ARG
1	C	1613	LYS
1	C	1623	THR
1	C	1646	LEU
1	C	1662	GLN
1	C	1673	LEU
1	C	1678	LEU
1	C	1702	ARG
1	C	1703	VAL
1	C	1707	SER
1	D	12	THR
1	D	14	LEU
1	D	21	GLN
1	D	27	ARG
1	D	33	ASP
1	D	335	LEU
1	D	361	SER
1	D	365	GLN
1	D	382	ILE
1	D	387	ILE
1	D	414	TYR
1	D	424	VAL
1	D	427	ARG
1	D	444	LEU
1	D	448	MET
1	D	449	GLN
1	D	457	THR
1	D	486	VAL
1	D	494	THR
1	D	517	ARG
1	D	532	ILE
1	D	536	SER

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Mol	Chain	Res	Type
1	D	537	ASN
1	D	552	ILE
1	D	557	ARG
1	D	562	SER
1	D	570	TYR
1	D	579	MET
1	D	581	GLU
1	D	584	ILE
1	D	605	ARG
1	D	623	PHE
1	D	628	TYR
1	D	680	VAL
1	D	688	SER
1	D	709	LEU
1	D	715	ASN
1	D	725	LEU
1	D	732	THR
1	D	736	LEU
1	D	751	GLU
1	D	754	ARG
1	D	770	MET
1	D	772	THR
1	D	783	THR
1	D	793	ARG
1	D	811	ASP
1	D	813	LEU
1	D	815	SER
1	D	837	LEU
1	D	843	VAL
1	D	848	ARG
1	D	856	ASN
1	D	874	GLN
1	D	883	LEU
1	D	919	ARG
1	D	921	GLU
1	D	946	GLU
1	D	970	LEU
1	D	995	VAL
1	D	999	LEU
1	D	1039	ASN
1	D	1042	LEU
1	D	1061	ASP

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Mol	Chain	Res	Type
1	D	1071	TYR
1	D	1079	ARG
1	D	1093	ARG
1	D	1131	GLU
1	D	1160	VAL
1	D	1183	VAL
1	D	1186	VAL
1	D	1220	ASN
1	D	1226	VAL
1	D	1232	LEU
1	D	1258	MET
1	D	1267	LEU
1	D	1308	ASP
1	D	1313	GLU
1	D	1324	THR
1	D	1340	MET
1	D	1342	ARG
1	D	1344	THR
1	D	1347	THR
1	D	1352	MET
1	D	1353	GLU
1	D	1357	CYS
1	D	1360	GLN
1	D	1361	VAL
1	D	1367	LEU
1	D	1381	MET
1	D	1401	LEU
1	D	1422	ARG
1	D	1426	GLU
1	D	1432	ILE
1	D	1437	GLU
1	D	1441	LEU
1	D	1455	SER
1	D	1456	GLU
1	D	1457	GLU
1	D	1482	GLU
1	D	1491	ASN
1	D	1504	ARG
1	D	1514	ILE
1	D	1534	GLU
1	D	1538	ILE
1	D	1539	CYS

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Mol	Chain	Res	Type
1	D	1561	LEU
1	D	1564	HIS
1	D	1602	PHE
1	D	1606	VAL
1	D	1610	ARG
1	D	1613	LYS
1	D	1623	THR
1	D	1646	LEU
1	D	1662	GLN
1	D	1673	LEU
1	D	1678	LEU
1	D	1702	ARG
1	D	1708	ASN
1	E	12	THR
1	E	14	LEU
1	E	21	GLN
1	E	27	ARG
1	E	33	ASP
1	E	60	THR
1	E	335	LEU
1	E	361	SER
1	E	365	GLN
1	E	382	ILE
1	E	387	ILE
1	E	414	TYR
1	E	424	VAL
1	E	427	ARG
1	E	443	LEU
1	E	444	LEU
1	E	448	MET
1	E	449	GLN
1	E	457	THR
1	E	486	VAL
1	E	494	THR
1	E	499	THR
1	E	517	ARG
1	E	537	ASN
1	E	552	ILE
1	E	557	ARG
1	E	562	SER
1	E	570	TYR
1	E	623	PHE

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Mol	Chain	Res	Type
1	E	628	TYR
1	E	680	VAL
1	E	688	SER
1	E	705	ARG
1	E	709	LEU
1	E	715	ASN
1	E	725	LEU
1	E	732	THR
1	E	736	LEU
1	E	751	GLU
1	E	754	ARG
1	E	770	MET
1	E	772	THR
1	E	783	THR
1	E	793	ARG
1	E	799	LEU
1	E	811	ASP
1	E	813	LEU
1	E	815	SER
1	E	817	SER
1	E	837	LEU
1	E	843	VAL
1	E	848	ARG
1	E	856	ASN
1	E	874	GLN
1	E	883	LEU
1	E	919	ARG
1	E	921	GLU
1	E	946	GLU
1	E	970	LEU
1	E	995	VAL
1	E	999	LEU
1	E	1011	ARG
1	E	1039	ASN
1	E	1042	LEU
1	E	1061	ASP
1	E	1071	TYR
1	E	1079	ARG
1	E	1093	ARG
1	E	1131	GLU
1	E	1160	VAL
1	E	1183	VAL

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Mol	Chain	Res	Type
1	E	1186	VAL
1	E	1220	ASN
1	E	1226	VAL
1	E	1232	LEU
1	E	1258	MET
1	E	1267	LEU
1	E	1308	ASP
1	E	1313	GLU
1	E	1324	THR
1	E	1340	MET
1	E	1342	ARG
1	E	1344	THR
1	E	1347	THR
1	E	1352	MET
1	E	1353	GLU
1	E	1357	CYS
1	E	1360	GLN
1	E	1361	VAL
1	E	1367	LEU
1	E	1381	MET
1	E	1401	LEU
1	E	1422	ARG
1	E	1426	GLU
1	E	1432	ILE
1	E	1437	GLU
1	E	1441	LEU
1	E	1455	SER
1	E	1456	GLU
1	E	1457	GLU
1	E	1482	GLU
1	E	1491	ASN
1	E	1504	ARG
1	E	1514	ILE
1	E	1534	GLU
1	E	1538	ILE
1	E	1539	CYS
1	E	1561	LEU
1	E	1564	HIS
1	E	1602	PHE
1	E	1606	VAL
1	E	1610	ARG
1	E	1613	LYS

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Mol	Chain	Res	Type
1	E	1646	LEU
1	E	1662	GLN
1	E	1678	LEU
1	E	1702	ARG
1	E	1708	ASN
1	F	12	THR
1	F	14	LEU
1	F	21	GLN
1	F	27	ARG
1	F	33	ASP
1	F	82	CYS
1	F	335	LEU
1	F	361	SER
1	F	365	GLN
1	F	382	ILE
1	F	387	ILE
1	F	414	TYR
1	F	424	VAL
1	F	427	ARG
1	F	444	LEU
1	F	448	MET
1	F	457	THR
1	F	486	VAL
1	F	494	THR
1	F	517	ARG
1	F	535	TYR
1	F	547	SER
1	F	551	LEU
1	F	557	ARG
1	F	567	ASN
1	F	612	ILE
1	F	613	PRO
1	F	623	PHE
1	F	628	TYR
1	F	680	VAL
1	F	688	SER
1	F	709	LEU
1	F	715	ASN
1	F	725	LEU
1	F	732	THR
1	F	736	LEU
1	F	751	GLU

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Mol	Chain	Res	Type
1	F	754	ARG
1	F	770	MET
1	F	772	THR
1	F	783	THR
1	F	793	ARG
1	F	799	LEU
1	F	811	ASP
1	F	813	LEU
1	F	815	SER
1	F	817	SER
1	F	837	LEU
1	F	843	VAL
1	F	848	ARG
1	F	856	ASN
1	F	874	GLN
1	F	883	LEU
1	F	919	ARG
1	F	921	GLU
1	F	946	GLU
1	F	970	LEU
1	F	988	VAL
1	F	995	VAL
1	F	999	LEU
1	F	1039	ASN
1	F	1042	LEU
1	F	1061	ASP
1	F	1071	TYR
1	F	1079	ARG
1	F	1093	ARG
1	F	1131	GLU
1	F	1160	VAL
1	F	1183	VAL
1	F	1186	VAL
1	F	1220	ASN
1	F	1226	VAL
1	F	1232	LEU
1	F	1258	MET
1	F	1267	LEU
1	F	1308	ASP
1	F	1313	GLU
1	F	1324	THR
1	F	1340	MET

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Mol	Chain	Res	Type
1	F	1342	ARG
1	F	1344	THR
1	F	1347	THR
1	F	1352	MET
1	F	1353	GLU
1	F	1357	CYS
1	F	1360	GLN
1	F	1361	VAL
1	F	1367	LEU
1	F	1381	MET
1	F	1401	LEU
1	F	1422	ARG
1	F	1426	GLU
1	F	1432	ILE
1	F	1437	GLU
1	F	1441	LEU
1	F	1455	SER
1	F	1456	GLU
1	F	1457	GLU
1	F	1482	GLU
1	F	1491	ASN
1	F	1504	ARG
1	F	1514	ILE
1	F	1534	GLU
1	F	1538	ILE
1	F	1539	CYS
1	F	1561	LEU
1	F	1564	HIS
1	F	1602	PHE
1	F	1606	VAL
1	F	1610	ARG
1	F	1613	LYS
1	F	1662	GLN
1	F	1678	LEU
1	F	1702	ARG
1	F	1707	SER
2	G	25	VAL
2	G	27	THR
2	G	30	SER
2	G	31	LEU
2	G	70	SER
2	G	102	LEU

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Mol	Chain	Res	Type
2	G	119	VAL
2	G	122	ILE
2	G	158	LEU
2	G	167	VAL
2	G	168	LYS
2	G	171	SER
2	G	215	TRP
2	G	220	GLN
2	G	225	LEU
2	G	252	LEU
2	G	262	MET
2	G	264	THR
2	G	275	LEU
2	G	289	ILE
2	G	297	THR
2	G	331	LEU
2	G	334	SER
2	G	339	SER
2	G	340	VAL
2	G	346	THR
2	G	382	LEU
2	G	388	ASN
2	G	401	LEU
2	G	436	THR
2	G	451	ILE
2	G	457	ASP
2	G	459	LYS
2	G	472	THR
2	G	474	THR
2	G	522	SER
2	G	549	ASN
2	G	583	THR
2	G	600	VAL
2	G	604	MET
2	G	609	THR
2	G	616	ASP
2	G	636	TYR
2	G	663	ILE
2	G	709	LEU
2	G	734	ASN
2	G	739	ILE
2	G	747	ARG

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Mol	Chain	Res	Type
2	G	792	LEU
2	G	814	SER
2	G	820	LYS
2	G	821	GLU
2	G	827	GLN
2	G	839	ASP
2	G	842	GLN
2	G	843	TRP
2	G	845	ASN
2	G	846	THR
2	G	855	ILE
2	G	856	THR
2	G	861	MET
2	G	868	LEU
2	G	876	TRP
2	G	881	ASP
2	G	903	ILE
2	G	906	LEU
2	G	913	VAL
2	G	918	ASN
2	G	935	VAL
2	G	939	VAL
2	G	944	VAL
2	G	964	ARG
2	G	971	THR
2	G	979	LEU
2	G	985	ASP
2	G	988	GLU
2	G	1002	GLU
2	G	1004	SER
2	G	1005	THR
2	G	1007	LEU
2	G	1008	ILE
2	G	1009	ASN
2	G	1017	LEU
2	G	1022	ARG
2	G	1028	VAL
2	G	1036	GLU
2	G	1049	GLN
2	G	1050	SER
2	G	1051	GLU
2	G	1063	ARG

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Mol	Chain	Res	Type
2	G	1065	CYS
2	G	1100	ARG
2	G	1104	ASP
2	G	1108	GLU
2	G	1113	ILE
2	G	1133	LEU
2	G	1138	ASP
2	G	1153	ASN
2	G	1172	ARG
2	G	1179	GLU
2	G	1200	ARG
2	G	1207	THR
2	G	1216	VAL
2	G	1217	ILE
2	G	1223	SER
2	G	1228	LEU
2	G	1239	ASP
2	G	1250	ARG
2	G	1258	PRO
2	G	1259	LEU
2	G	1266	HIS
2	G	1294	PHE
2	G	1305	LEU
2	G	1309	PHE
2	G	1313	ARG
2	G	1315	ILE
2	G	1338	ARG
2	G	1348	PHE
2	G	1350	ILE
2	G	1351	VAL
2	G	1364	ARG
2	G	1380	TYR
2	G	1391	VAL
2	G	1400	GLN
2	G	1405	ILE
2	G	1409	SER
2	G	1418	THR
2	G	1421	ARG
2	G	1426	VAL
2	G	1438	VAL
2	G	1452	VAL
2	G	1463	ASP

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Mol	Chain	Res	Type
2	G	1467	LEU
2	G	1468	ARG
2	G	1471	GLU
2	G	1477	ASP
2	G	1499	LYS
2	G	1546	ARG
2	G	1557	PHE
2	G	1563	LEU
2	G	1583	VAL
2	G	1593	SER
2	G	1594	ARG
2	G	1605	THR
2	G	1616	VAL
2	G	1622	THR
2	G	1639	MET
2	G	1640	VAL
2	G	1649	ILE
2	G	1655	HIS
2	G	1675	ASP
2	G	1708	LEU
2	G	1717	GLU
2	G	1740	ASN
2	G	1745	LEU
2	G	1746	THR
2	G	1767	GLU
2	G	1777	THR
2	G	1785	ASP
2	G	1804	GLN
2	G	1829	ARG
2	G	1832	THR
2	G	1854	GLU
2	G	1866	THR
2	G	1873	ARG
2	G	1900	LEU
2	G	1962	LEU
2	G	1965	VAL
2	G	1966	ARG
2	G	1972	ILE
2	G	1977	ARG
2	G	1999	ARG
2	G	2031	ASP
2	G	2035	LEU

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Mol	Chain	Res	Type
2	G	2039	TYR
2	G	2052	LYS
2	G	2053	GLU
2	G	2062	THR
2	G	2064	SER
2	G	2067	ILE
2	G	2069	ASN
2	H	27	THR
2	H	30	SER
2	H	31	LEU
2	H	70	SER
2	H	86	GLU
2	H	102	LEU
2	H	122	ILE
2	H	158	LEU
2	H	167	VAL
2	H	168	LYS
2	H	171	SER
2	H	215	TRP
2	H	220	GLN
2	H	225	LEU
2	H	252	LEU
2	H	262	MET
2	H	264	THR
2	H	275	LEU
2	H	289	ILE
2	H	297	THR
2	H	331	LEU
2	H	334	SER
2	H	339	SER
2	H	346	THR
2	H	382	LEU
2	H	388	ASN
2	H	401	LEU
2	H	419	ILE
2	H	436	THR
2	H	451	ILE
2	H	457	ASP
2	H	459	LYS
2	H	472	THR
2	H	474	THR
2	H	522	SER

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Mol	Chain	Res	Type
2	H	549	ASN
2	H	583	THR
2	H	600	VAL
2	H	604	MET
2	H	609	THR
2	H	616	ASP
2	H	636	TYR
2	H	663	ILE
2	H	709	LEU
2	H	734	ASN
2	H	739	ILE
2	H	747	ARG
2	H	792	LEU
2	H	820	LYS
2	H	821	GLU
2	H	827	GLN
2	H	839	ASP
2	H	842	GLN
2	H	843	TRP
2	H	845	ASN
2	H	846	THR
2	H	855	ILE
2	H	856	THR
2	H	861	MET
2	H	876	TRP
2	H	881	ASP
2	H	903	ILE
2	H	906	LEU
2	H	913	VAL
2	H	918	ASN
2	H	935	VAL
2	H	939	VAL
2	H	944	VAL
2	H	964	ARG
2	H	971	THR
2	H	979	LEU
2	H	985	ASP
2	H	1002	GLU
2	H	1007	LEU
2	H	1008	ILE
2	H	1009	ASN
2	H	1017	LEU

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Mol	Chain	Res	Type
2	H	1022	ARG
2	H	1028	VAL
2	H	1036	GLU
2	H	1049	GLN
2	H	1050	SER
2	H	1051	GLU
2	H	1063	ARG
2	H	1065	CYS
2	H	1100	ARG
2	H	1104	ASP
2	H	1108	GLU
2	H	1113	ILE
2	H	1119	ARG
2	H	1133	LEU
2	H	1138	ASP
2	H	1153	ASN
2	H	1172	ARG
2	H	1179	GLU
2	H	1200	ARG
2	H	1207	THR
2	H	1217	ILE
2	H	1223	SER
2	H	1228	LEU
2	H	1239	ASP
2	H	1250	ARG
2	H	1259	LEU
2	H	1266	HIS
2	H	1294	PHE
2	H	1305	LEU
2	H	1309	PHE
2	H	1313	ARG
2	H	1315	ILE
2	H	1338	ARG
2	H	1348	PHE
2	H	1350	ILE
2	H	1351	VAL
2	H	1364	ARG
2	H	1380	TYR
2	H	1391	VAL
2	H	1400	GLN
2	H	1405	ILE
2	H	1409	SER

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Mol	Chain	Res	Type
2	H	1418	THR
2	H	1421	ARG
2	H	1426	VAL
2	H	1438	VAL
2	H	1452	VAL
2	H	1463	ASP
2	H	1467	LEU
2	H	1468	ARG
2	H	1471	GLU
2	H	1477	ASP
2	H	1487	THR
2	H	1499	LYS
2	H	1546	ARG
2	H	1557	PHE
2	H	1563	LEU
2	H	1583	VAL
2	H	1593	SER
2	H	1594	ARG
2	H	1605	THR
2	H	1616	VAL
2	H	1622	THR
2	H	1639	MET
2	H	1640	VAL
2	H	1649	ILE
2	H	1655	HIS
2	H	1675	ASP
2	H	1708	LEU
2	H	1740	ASN
2	H	1746	THR
2	H	1767	GLU
2	H	1777	THR
2	H	1785	ASP
2	H	1804	GLN
2	H	1829	ARG
2	H	1832	THR
2	H	1854	GLU
2	H	1866	THR
2	H	1873	ARG
2	H	1900	LEU
2	H	1962	LEU
2	H	1965	VAL
2	H	1966	ARG

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Mol	Chain	Res	Type
2	H	1972	ILE
2	H	1977	ARG
2	H	1999	ARG
2	H	2031	ASP
2	H	2035	LEU
2	H	2039	TYR
2	H	2052	LYS
2	H	2053	GLU
2	H	2062	THR
2	H	2064	SER
2	H	2067	ILE
2	H	2069	ASN
2	I	27	THR
2	I	30	SER
2	I	31	LEU
2	I	70	SER
2	I	102	LEU
2	I	122	ILE
2	I	158	LEU
2	I	167	VAL
2	I	168	LYS
2	I	171	SER
2	I	215	TRP
2	I	220	GLN
2	I	225	LEU
2	I	239	ASP
2	I	252	LEU
2	I	262	MET
2	I	264	THR
2	I	275	LEU
2	I	289	ILE
2	I	297	THR
2	I	331	LEU
2	I	334	SER
2	I	339	SER
2	I	340	VAL
2	I	346	THR
2	I	382	LEU
2	I	388	ASN
2	I	401	LEU
2	I	419	ILE
2	I	436	THR

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Mol	Chain	Res	Type
2	I	451	ILE
2	I	457	ASP
2	I	459	LYS
2	I	472	THR
2	I	474	THR
2	I	522	SER
2	I	549	ASN
2	I	583	THR
2	I	597	LEU
2	I	600	VAL
2	I	604	MET
2	I	609	THR
2	I	616	ASP
2	I	636	TYR
2	I	663	ILE
2	I	709	LEU
2	I	734	ASN
2	I	739	ILE
2	I	747	ARG
2	I	792	LEU
2	I	820	LYS
2	I	821	GLU
2	I	827	GLN
2	I	839	ASP
2	I	842	GLN
2	I	845	ASN
2	I	846	THR
2	I	855	ILE
2	I	856	THR
2	I	861	MET
2	I	870	THR
2	I	876	TRP
2	I	881	ASP
2	I	903	ILE
2	I	906	LEU
2	I	913	VAL
2	I	918	ASN
2	I	935	VAL
2	I	939	VAL
2	I	944	VAL
2	I	964	ARG
2	I	971	THR

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Mol	Chain	Res	Type
2	I	979	LEU
2	I	985	ASP
2	I	988	GLU
2	I	1002	GLU
2	I	1004	SER
2	I	1005	THR
2	I	1007	LEU
2	I	1008	ILE
2	I	1009	ASN
2	I	1017	LEU
2	I	1022	ARG
2	I	1028	VAL
2	I	1036	GLU
2	I	1049	GLN
2	I	1050	SER
2	I	1051	GLU
2	I	1053	ILE
2	I	1063	ARG
2	I	1065	CYS
2	I	1081	GLU
2	I	1100	ARG
2	I	1104	ASP
2	I	1108	GLU
2	I	1113	ILE
2	I	1133	LEU
2	I	1138	ASP
2	I	1153	ASN
2	I	1172	ARG
2	I	1179	GLU
2	I	1200	ARG
2	I	1207	THR
2	I	1216	VAL
2	I	1217	ILE
2	I	1223	SER
2	I	1228	LEU
2	I	1239	ASP
2	I	1250	ARG
2	I	1266	HIS
2	I	1294	PHE
2	I	1305	LEU
2	I	1309	PHE
2	I	1313	ARG

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Mol	Chain	Res	Type
2	I	1315	ILE
2	I	1338	ARG
2	I	1348	PHE
2	I	1350	ILE
2	I	1351	VAL
2	I	1364	ARG
2	I	1391	VAL
2	I	1400	GLN
2	I	1405	ILE
2	I	1409	SER
2	I	1418	THR
2	I	1421	ARG
2	I	1426	VAL
2	I	1438	VAL
2	I	1452	VAL
2	I	1463	ASP
2	I	1467	LEU
2	I	1468	ARG
2	I	1471	GLU
2	I	1477	ASP
2	I	1483	LEU
2	I	1499	LYS
2	I	1546	ARG
2	I	1556	ASN
2	I	1557	PHE
2	I	1563	LEU
2	I	1583	VAL
2	I	1593	SER
2	I	1594	ARG
2	I	1605	THR
2	I	1616	VAL
2	I	1622	THR
2	I	1639	MET
2	I	1640	VAL
2	I	1649	ILE
2	I	1655	HIS
2	I	1675	ASP
2	I	1708	LEU
2	I	1740	ASN
2	I	1745	LEU
2	I	1746	THR
2	I	1767	GLU

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Mol	Chain	Res	Type
2	I	1777	THR
2	I	1785	ASP
2	I	1804	GLN
2	I	1829	ARG
2	I	1832	THR
2	I	1854	GLU
2	I	1866	THR
2	I	1873	ARG
2	I	1900	LEU
2	I	1962	LEU
2	I	1965	VAL
2	I	1966	ARG
2	I	1972	ILE
2	I	1977	ARG
2	I	1999	ARG
2	I	2010	LEU
2	I	2031	ASP
2	I	2035	LEU
2	I	2039	TYR
2	I	2052	LYS
2	I	2053	GLU
2	I	2062	THR
2	I	2064	SER
2	I	2067	ILE
2	I	2069	ASN
2	J	27	THR
2	J	30	SER
2	J	31	LEU
2	J	70	SER
2	J	86	GLU
2	J	102	LEU
2	J	122	ILE
2	J	158	LEU
2	J	167	VAL
2	J	168	LYS
2	J	171	SER
2	J	215	TRP
2	J	220	GLN
2	J	225	LEU
2	J	239	ASP
2	J	252	LEU
2	J	262	MET

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Mol	Chain	Res	Type
2	J	264	THR
2	J	275	LEU
2	J	289	ILE
2	J	297	THR
2	J	331	LEU
2	J	339	SER
2	J	340	VAL
2	J	346	THR
2	J	382	LEU
2	J	388	ASN
2	J	401	LEU
2	J	419	ILE
2	J	436	THR
2	J	451	ILE
2	J	457	ASP
2	J	459	LYS
2	J	472	THR
2	J	474	THR
2	J	522	SER
2	J	549	ASN
2	J	559	PHE
2	J	583	THR
2	J	600	VAL
2	J	604	MET
2	J	609	THR
2	J	616	ASP
2	J	636	TYR
2	J	663	ILE
2	J	709	LEU
2	J	734	ASN
2	J	739	ILE
2	J	747	ARG
2	J	792	LEU
2	J	820	LYS
2	J	821	GLU
2	J	827	GLN
2	J	839	ASP
2	J	842	GLN
2	J	843	TRP
2	J	845	ASN
2	J	846	THR
2	J	855	ILE

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Mol	Chain	Res	Type
2	J	856	THR
2	J	857	VAL
2	J	861	MET
2	J	870	THR
2	J	876	TRP
2	J	881	ASP
2	J	903	ILE
2	J	906	LEU
2	J	913	VAL
2	J	918	ASN
2	J	935	VAL
2	J	939	VAL
2	J	944	VAL
2	J	964	ARG
2	J	971	THR
2	J	979	LEU
2	J	985	ASP
2	J	988	GLU
2	J	1002	GLU
2	J	1004	SER
2	J	1005	THR
2	J	1007	LEU
2	J	1008	ILE
2	J	1009	ASN
2	J	1017	LEU
2	J	1022	ARG
2	J	1028	VAL
2	J	1036	GLU
2	J	1049	GLN
2	J	1050	SER
2	J	1051	GLU
2	J	1063	ARG
2	J	1065	CYS
2	J	1081	GLU
2	J	1100	ARG
2	J	1104	ASP
2	J	1108	GLU
2	J	1113	ILE
2	J	1133	LEU
2	J	1138	ASP
2	J	1153	ASN
2	J	1172	ARG

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Mol	Chain	Res	Type
2	J	1179	GLU
2	J	1200	ARG
2	J	1207	THR
2	J	1217	ILE
2	J	1223	SER
2	J	1228	LEU
2	J	1239	ASP
2	J	1250	ARG
2	J	1259	LEU
2	J	1266	HIS
2	J	1294	PHE
2	J	1305	LEU
2	J	1309	PHE
2	J	1313	ARG
2	J	1315	ILE
2	J	1338	ARG
2	J	1348	PHE
2	J	1350	ILE
2	J	1351	VAL
2	J	1364	ARG
2	J	1391	VAL
2	J	1400	GLN
2	J	1405	ILE
2	J	1409	SER
2	J	1418	THR
2	J	1421	ARG
2	J	1426	VAL
2	J	1438	VAL
2	J	1452	VAL
2	J	1463	ASP
2	J	1467	LEU
2	J	1468	ARG
2	J	1471	GLU
2	J	1483	LEU
2	J	1499	LYS
2	J	1557	PHE
2	J	1563	LEU
2	J	1583	VAL
2	J	1593	SER
2	J	1594	ARG
2	J	1605	THR
2	J	1616	VAL

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Mol	Chain	Res	Type
2	J	1622	THR
2	J	1639	MET
2	J	1640	VAL
2	J	1649	ILE
2	J	1655	HIS
2	J	1675	ASP
2	J	1708	LEU
2	J	1740	ASN
2	J	1745	LEU
2	J	1746	THR
2	J	1767	GLU
2	J	1777	THR
2	J	1785	ASP
2	J	1804	GLN
2	J	1829	ARG
2	J	1832	THR
2	J	1854	GLU
2	J	1866	THR
2	J	1873	ARG
2	J	1900	LEU
2	J	1962	LEU
2	J	1965	VAL
2	J	1966	ARG
2	J	1972	ILE
2	J	1977	ARG
2	J	1999	ARG
2	J	2010	LEU
2	J	2031	ASP
2	J	2035	LEU
2	J	2039	TYR
2	J	2052	LYS
2	J	2053	GLU
2	J	2062	THR
2	J	2064	SER
2	J	2067	ILE
2	J	2069	ASN
2	K	27	THR
2	K	30	SER
2	K	31	LEU
2	K	70	SER
2	K	102	LEU
2	K	119	VAL

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Mol	Chain	Res	Type
2	K	122	ILE
2	K	158	LEU
2	K	167	VAL
2	K	171	SER
2	K	215	TRP
2	K	220	GLN
2	K	225	LEU
2	K	252	LEU
2	K	262	MET
2	K	264	THR
2	K	275	LEU
2	K	289	ILE
2	K	297	THR
2	K	331	LEU
2	K	339	SER
2	K	340	VAL
2	K	346	THR
2	K	382	LEU
2	K	388	ASN
2	K	401	LEU
2	K	419	ILE
2	K	436	THR
2	K	451	ILE
2	K	457	ASP
2	K	459	LYS
2	K	467	ILE
2	K	472	THR
2	K	474	THR
2	K	522	SER
2	K	549	ASN
2	K	559	PHE
2	K	583	THR
2	K	600	VAL
2	K	604	MET
2	K	609	THR
2	K	616	ASP
2	K	636	TYR
2	K	663	ILE
2	K	709	LEU
2	K	734	ASN
2	K	739	ILE
2	K	747	ARG

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Mol	Chain	Res	Type
2	K	792	LEU
2	K	814	SER
2	K	820	LYS
2	K	821	GLU
2	K	827	GLN
2	K	839	ASP
2	K	842	GLN
2	K	843	TRP
2	K	845	ASN
2	K	846	THR
2	K	855	ILE
2	K	856	THR
2	K	861	MET
2	K	868	LEU
2	K	876	TRP
2	K	881	ASP
2	K	903	ILE
2	K	906	LEU
2	K	913	VAL
2	K	918	ASN
2	K	935	VAL
2	K	939	VAL
2	K	944	VAL
2	K	964	ARG
2	K	971	THR
2	K	979	LEU
2	K	985	ASP
2	K	988	GLU
2	K	1002	GLU
2	K	1005	THR
2	K	1007	LEU
2	K	1008	ILE
2	K	1009	ASN
2	K	1017	LEU
2	K	1022	ARG
2	K	1028	VAL
2	K	1036	GLU
2	K	1049	GLN
2	K	1050	SER
2	K	1051	GLU
2	K	1063	ARG
2	K	1065	CYS

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Mol	Chain	Res	Type
2	K	1100	ARG
2	K	1104	ASP
2	K	1108	GLU
2	K	1113	ILE
2	K	1133	LEU
2	K	1138	ASP
2	K	1153	ASN
2	K	1172	ARG
2	K	1179	GLU
2	K	1200	ARG
2	K	1207	THR
2	K	1217	ILE
2	K	1223	SER
2	K	1228	LEU
2	K	1239	ASP
2	K	1250	ARG
2	K	1259	LEU
2	K	1266	HIS
2	K	1294	PHE
2	K	1305	LEU
2	K	1309	PHE
2	K	1313	ARG
2	K	1315	ILE
2	K	1338	ARG
2	K	1348	PHE
2	K	1350	ILE
2	K	1351	VAL
2	K	1364	ARG
2	K	1380	TYR
2	K	1391	VAL
2	K	1400	GLN
2	K	1405	ILE
2	K	1409	SER
2	K	1418	THR
2	K	1421	ARG
2	K	1426	VAL
2	K	1438	VAL
2	K	1452	VAL
2	K	1463	ASP
2	K	1467	LEU
2	K	1468	ARG
2	K	1471	GLU

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Mol	Chain	Res	Type
2	K	1477	ASP
2	K	1499	LYS
2	K	1546	ARG
2	K	1557	PHE
2	K	1563	LEU
2	K	1583	VAL
2	K	1593	SER
2	K	1594	ARG
2	K	1605	THR
2	K	1616	VAL
2	K	1622	THR
2	K	1639	MET
2	K	1640	VAL
2	K	1649	ILE
2	K	1655	HIS
2	K	1708	LEU
2	K	1717	GLU
2	K	1740	ASN
2	K	1746	THR
2	K	1767	GLU
2	K	1777	THR
2	K	1785	ASP
2	K	1804	GLN
2	K	1829	ARG
2	K	1832	THR
2	K	1854	GLU
2	K	1866	THR
2	K	1873	ARG
2	K	1900	LEU
2	K	1962	LEU
2	K	1965	VAL
2	K	1966	ARG
2	K	1972	ILE
2	K	1977	ARG
2	K	1999	ARG
2	K	2010	LEU
2	K	2031	ASP
2	K	2035	LEU
2	K	2039	TYR
2	K	2052	LYS
2	K	2053	GLU
2	K	2062	THR

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Mol	Chain	Res	Type
2	K	2064	SER
2	K	2067	ILE
2	K	2069	ASN
2	L	25	VAL
2	L	27	THR
2	L	30	SER
2	L	31	LEU
2	L	70	SER
2	L	102	LEU
2	L	122	ILE
2	L	158	LEU
2	L	167	VAL
2	L	168	LYS
2	L	171	SER
2	L	215	TRP
2	L	220	GLN
2	L	225	LEU
2	L	252	LEU
2	L	262	MET
2	L	264	THR
2	L	275	LEU
2	L	289	ILE
2	L	297	THR
2	L	331	LEU
2	L	334	SER
2	L	339	SER
2	L	340	VAL
2	L	346	THR
2	L	382	LEU
2	L	388	ASN
2	L	401	LEU
2	L	412	THR
2	L	436	THR
2	L	451	ILE
2	L	457	ASP
2	L	459	LYS
2	L	472	THR
2	L	474	THR
2	L	522	SER
2	L	549	ASN
2	L	583	THR
2	L	597	LEU

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Mol	Chain	Res	Type
2	L	600	VAL
2	L	604	MET
2	L	609	THR
2	L	616	ASP
2	L	636	TYR
2	L	663	ILE
2	L	709	LEU
2	L	734	ASN
2	L	739	ILE
2	L	747	ARG
2	L	792	LEU
2	L	820	LYS
2	L	821	GLU
2	L	827	GLN
2	L	839	ASP
2	L	842	GLN
2	L	843	TRP
2	L	845	ASN
2	L	846	THR
2	L	855	ILE
2	L	856	THR
2	L	861	MET
2	L	876	TRP
2	L	881	ASP
2	L	903	ILE
2	L	906	LEU
2	L	913	VAL
2	L	918	ASN
2	L	935	VAL
2	L	939	VAL
2	L	944	VAL
2	L	964	ARG
2	L	971	THR
2	L	979	LEU
2	L	985	ASP
2	L	988	GLU
2	L	1002	GLU
2	L	1005	THR
2	L	1007	LEU
2	L	1008	ILE
2	L	1009	ASN
2	L	1017	LEU

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Mol	Chain	Res	Type
2	L	1022	ARG
2	L	1028	VAL
2	L	1036	GLU
2	L	1049	GLN
2	L	1050	SER
2	L	1051	GLU
2	L	1063	ARG
2	L	1065	CYS
2	L	1100	ARG
2	L	1104	ASP
2	L	1108	GLU
2	L	1113	ILE
2	L	1133	LEU
2	L	1138	ASP
2	L	1153	ASN
2	L	1172	ARG
2	L	1179	GLU
2	L	1200	ARG
2	L	1207	THR
2	L	1217	ILE
2	L	1223	SER
2	L	1228	LEU
2	L	1239	ASP
2	L	1250	ARG
2	L	1259	LEU
2	L	1266	HIS
2	L	1294	PHE
2	L	1305	LEU
2	L	1309	PHE
2	L	1313	ARG
2	L	1315	ILE
2	L	1338	ARG
2	L	1348	PHE
2	L	1350	ILE
2	L	1351	VAL
2	L	1364	ARG
2	L	1391	VAL
2	L	1400	GLN
2	L	1405	ILE
2	L	1409	SER
2	L	1418	THR
2	L	1421	ARG

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Mol	Chain	Res	Type
2	L	1426	VAL
2	L	1438	VAL
2	L	1452	VAL
2	L	1463	ASP
2	L	1467	LEU
2	L	1468	ARG
2	L	1471	GLU
2	L	1477	ASP
2	L	1499	LYS
2	L	1522	ILE
2	L	1546	ARG
2	L	1557	PHE
2	L	1563	LEU
2	L	1583	VAL
2	L	1593	SER
2	L	1594	ARG
2	L	1605	THR
2	L	1616	VAL
2	L	1622	THR
2	L	1639	MET
2	L	1640	VAL
2	L	1649	ILE
2	L	1655	HIS
2	L	1675	ASP
2	L	1708	LEU
2	L	1740	ASN
2	L	1745	LEU
2	L	1746	THR
2	L	1767	GLU
2	L	1777	THR
2	L	1785	ASP
2	L	1804	GLN
2	L	1829	ARG
2	L	1832	THR
2	L	1854	GLU
2	L	1866	THR
2	L	1873	ARG
2	L	1900	LEU
2	L	1962	LEU
2	L	1965	VAL
2	L	1966	ARG
2	L	1972	ILE

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Mol	Chain	Res	Type
2	L	1977	ARG
2	L	1999	ARG
2	L	2031	ASP
2	L	2035	LEU
2	L	2039	TYR
2	L	2052	LYS
2	L	2053	GLU
2	L	2062	THR
2	L	2064	SER
2	L	2067	ILE
2	L	2069	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (470) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	75	GLN
1	A	339	GLN
1	A	404	ASN
1	A	408	GLN
1	A	435	GLN
1	A	454	HIS
1	A	565	GLN
1	A	567	ASN
1	A	671	GLN
1	A	708	GLN
1	A	715	ASN
1	A	873	GLN
1	A	874	GLN
1	A	1037	ASN
1	A	1075	HIS
1	A	1137	GLN
1	A	1214	HIS
1	A	1220	ASN
1	A	1263	ASN
1	A	1311	GLN
1	A	1320	ASN
1	A	1410	ASN
1	A	1473	HIS
1	A	1486	GLN
1	A	1491	ASN
1	A	1558	GLN

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Mol	Chain	Res	Type
1	A	1591	ASN
1	A	1633	GLN
1	A	1662	GLN
1	A	1692	GLN
1	B	21	GLN
1	B	338	GLN
1	B	404	ASN
1	B	408	GLN
1	B	435	GLN
1	B	449	GLN
1	B	454	HIS
1	B	471	GLN
1	B	542	GLN
1	B	671	GLN
1	B	715	ASN
1	B	873	GLN
1	B	874	GLN
1	B	1037	ASN
1	B	1075	HIS
1	B	1137	GLN
1	B	1214	HIS
1	B	1220	ASN
1	B	1251	GLN
1	B	1263	ASN
1	B	1311	GLN
1	B	1320	ASN
1	B	1410	ASN
1	B	1486	GLN
1	B	1491	ASN
1	B	1544	HIS
1	B	1558	GLN
1	B	1591	ASN
1	B	1633	GLN
1	B	1662	GLN
1	B	1692	GLN
1	B	1705	GLN
1	C	21	GLN
1	C	339	GLN
1	C	404	ASN
1	C	408	GLN
1	C	435	GLN
1	C	449	GLN

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Mol	Chain	Res	Type
1	C	454	HIS
1	C	542	GLN
1	C	671	GLN
1	C	715	ASN
1	C	873	GLN
1	C	874	GLN
1	C	1037	ASN
1	C	1137	GLN
1	C	1214	HIS
1	C	1220	ASN
1	C	1263	ASN
1	C	1311	GLN
1	C	1320	ASN
1	C	1410	ASN
1	C	1473	HIS
1	C	1486	GLN
1	C	1491	ASN
1	C	1544	HIS
1	C	1558	GLN
1	C	1591	ASN
1	C	1633	GLN
1	C	1662	GLN
1	C	1692	GLN
1	D	21	GLN
1	D	404	ASN
1	D	408	GLN
1	D	435	GLN
1	D	454	HIS
1	D	565	GLN
1	D	567	ASN
1	D	671	GLN
1	D	708	GLN
1	D	715	ASN
1	D	873	GLN
1	D	874	GLN
1	D	1037	ASN
1	D	1075	HIS
1	D	1137	GLN
1	D	1214	HIS
1	D	1220	ASN
1	D	1263	ASN
1	D	1311	GLN

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Mol	Chain	Res	Type
1	D	1320	ASN
1	D	1410	ASN
1	D	1473	HIS
1	D	1486	GLN
1	D	1491	ASN
1	D	1544	HIS
1	D	1558	GLN
1	D	1591	ASN
1	D	1633	GLN
1	D	1662	GLN
1	D	1692	GLN
1	D	1705	GLN
1	E	21	GLN
1	E	404	ASN
1	E	408	GLN
1	E	435	GLN
1	E	454	HIS
1	E	471	GLN
1	E	567	ASN
1	E	671	GLN
1	E	715	ASN
1	E	873	GLN
1	E	874	GLN
1	E	1037	ASN
1	E	1039	ASN
1	E	1137	GLN
1	E	1214	HIS
1	E	1220	ASN
1	E	1263	ASN
1	E	1311	GLN
1	E	1320	ASN
1	E	1410	ASN
1	E	1473	HIS
1	E	1486	GLN
1	E	1491	ASN
1	E	1558	GLN
1	E	1591	ASN
1	E	1633	GLN
1	E	1662	GLN
1	E	1676	ASN
1	E	1692	GLN
1	F	21	GLN

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Mol	Chain	Res	Type
1	F	75	GLN
1	F	339	GLN
1	F	404	ASN
1	F	408	GLN
1	F	449	GLN
1	F	454	HIS
1	F	542	GLN
1	F	583	GLN
1	F	671	GLN
1	F	715	ASN
1	F	873	GLN
1	F	874	GLN
1	F	1037	ASN
1	F	1075	HIS
1	F	1137	GLN
1	F	1214	HIS
1	F	1220	ASN
1	F	1263	ASN
1	F	1311	GLN
1	F	1320	ASN
1	F	1410	ASN
1	F	1473	HIS
1	F	1486	GLN
1	F	1491	ASN
1	F	1558	GLN
1	F	1591	ASN
1	F	1633	GLN
1	F	1662	GLN
1	F	1692	GLN
2	G	28	HIS
2	G	44	GLN
2	G	166	ASN
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	448	HIS
2	G	500	ASN
2	G	512	HIS
2	G	529	ASN

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Mol	Chain	Res	Type
2	G	549	ASN
2	G	627	HIS
2	G	661	ASN
2	G	713	HIS
2	G	725	GLN
2	G	729	ASN
2	G	734	ASN
2	G	758	HIS
2	G	823	HIS
2	G	827	GLN
2	G	845	ASN
2	G	911	GLN
2	G	1006	GLN
2	G	1009	ASN
2	G	1094	HIS
2	G	1153	ASN
2	G	1173	HIS
2	G	1375	HIS
2	G	1378	ASN
2	G	1400	GLN
2	G	1455	GLN
2	G	1462	GLN
2	G	1479	HIS
2	G	1608	HIS
2	G	1628	ASN
2	G	1638	ASN
2	G	1646	ASN
2	G	1697	GLN
2	G	1702	GLN
2	G	1725	HIS
2	G	1804	GLN
2	G	1901	GLN
2	G	1919	ASN
2	G	2006	HIS
2	H	28	HIS
2	H	44	GLN
2	H	47	GLN
2	H	166	ASN
2	H	232	HIS
2	H	260	HIS
2	H	285	HIS
2	H	287	GLN

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Mol	Chain	Res	Type
2	H	388	ASN
2	H	416	GLN
2	H	448	HIS
2	H	500	ASN
2	H	512	HIS
2	H	529	ASN
2	H	549	ASN
2	H	627	HIS
2	H	661	ASN
2	H	713	HIS
2	H	725	GLN
2	H	729	ASN
2	H	734	ASN
2	H	758	HIS
2	H	823	HIS
2	H	827	GLN
2	H	845	ASN
2	H	911	GLN
2	H	1006	GLN
2	H	1009	ASN
2	H	1094	HIS
2	H	1153	ASN
2	H	1173	HIS
2	H	1378	ASN
2	H	1400	GLN
2	H	1455	GLN
2	H	1462	GLN
2	H	1479	HIS
2	H	1608	HIS
2	H	1628	ASN
2	H	1638	ASN
2	H	1646	ASN
2	H	1687	GLN
2	H	1697	GLN
2	H	1702	GLN
2	H	1725	HIS
2	H	1804	GLN
2	H	1901	GLN
2	H	1919	ASN
2	H	1968	HIS
2	H	2006	HIS
2	I	28	HIS

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Mol	Chain	Res	Type
2	I	44	GLN
2	I	166	ASN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN
2	I	388	ASN
2	I	416	GLN
2	I	448	HIS
2	I	500	ASN
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	725	GLN
2	I	729	ASN
2	I	734	ASN
2	I	752	HIS
2	I	758	HIS
2	I	823	HIS
2	I	827	GLN
2	I	845	ASN
2	I	911	GLN
2	I	1006	GLN
2	I	1009	ASN
2	I	1094	HIS
2	I	1153	ASN
2	I	1173	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1462	GLN
2	I	1479	HIS
2	I	1608	HIS
2	I	1628	ASN
2	I	1638	ASN
2	I	1646	ASN
2	I	1697	GLN
2	I	1702	GLN
2	I	1725	HIS

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Mol	Chain	Res	Type
2	I	1804	GLN
2	I	1901	GLN
2	I	1919	ASN
2	I	2006	HIS
2	J	28	HIS
2	J	44	GLN
2	J	166	ASN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	371	HIS
2	J	388	ASN
2	J	416	GLN
2	J	448	HIS
2	J	500	ASN
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	725	GLN
2	J	729	ASN
2	J	734	ASN
2	J	752	HIS
2	J	758	HIS
2	J	823	HIS
2	J	827	GLN
2	J	845	ASN
2	J	911	GLN
2	J	1006	GLN
2	J	1009	ASN
2	J	1094	HIS
2	J	1153	ASN
2	J	1173	HIS
2	J	1378	ASN
2	J	1400	GLN
2	J	1455	GLN
2	J	1462	GLN
2	J	1479	HIS
2	J	1608	HIS

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Mol	Chain	Res	Type
2	J	1628	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1687	GLN
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	2006	HIS
2	J	2042	ASN
2	K	28	HIS
2	K	44	GLN
2	K	166	ASN
2	K	232	HIS
2	K	260	HIS
2	K	285	HIS
2	K	287	GLN
2	K	388	ASN
2	K	416	GLN
2	K	448	HIS
2	K	500	ASN
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	725	GLN
2	K	729	ASN
2	K	734	ASN
2	K	758	HIS
2	K	823	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	1006	GLN
2	K	1094	HIS
2	K	1153	ASN
2	K	1173	HIS
2	K	1330	ASN

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Mol	Chain	Res	Type
2	K	1378	ASN
2	K	1400	GLN
2	K	1455	GLN
2	K	1462	GLN
2	K	1479	HIS
2	K	1608	HIS
2	K	1628	ASN
2	K	1638	ASN
2	K	1646	ASN
2	K	1687	GLN
2	K	1697	GLN
2	K	1702	GLN
2	K	1725	HIS
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	2006	HIS
2	L	28	HIS
2	L	44	GLN
2	L	166	ASN
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	448	HIS
2	L	500	ASN
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	725	GLN
2	L	729	ASN
2	L	734	ASN
2	L	758	HIS
2	L	823	HIS
2	L	827	GLN
2	L	845	ASN

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Mol	Chain	Res	Type
2	L	911	GLN
2	L	1006	GLN
2	L	1009	ASN
2	L	1094	HIS
2	L	1153	ASN
2	L	1378	ASN
2	L	1400	GLN
2	L	1455	GLN
2	L	1462	GLN
2	L	1479	HIS
2	L	1608	HIS
2	L	1627	ASN
2	L	1628	ASN
2	L	1638	ASN
2	L	1646	ASN
2	L	1687	GLN
2	L	1697	GLN
2	L	1702	GLN
2	L	1725	HIS
2	L	1804	GLN
2	L	1901	GLN
2	L	1919	ASN
2	L	2006	HIS

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

### 5.6 Ligand geometry ⓘ

6 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	FMN	G	2101	-	31,33,33	6.81	21 (67%)	40,50,50	1.75	4 (10%)
3	FMN	K	2101	-	31,33,33	7.03	21 (67%)	40,50,50	1.85	9 (22%)
3	FMN	J	2101	-	31,33,33	7.03	21 (67%)	40,50,50	1.99	8 (20%)
3	FMN	I	2101	-	31,33,33	6.80	20 (64%)	40,50,50	1.91	7 (17%)
3	FMN	H	2101	-	31,33,33	6.77	20 (64%)	40,50,50	1.84	8 (20%)
3	FMN	L	2101	-	31,33,33	6.76	19 (61%)	40,50,50	1.83	7 (17%)

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	FMN	G	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	K	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	J	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	I	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	H	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	L	2101	-	-	5/18/18/18	0/3/3/3

All (122) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	2101	FMN	C4A-C10	16.24	1.55	1.38
3	K	2101	FMN	C4A-C10	15.67	1.54	1.38
3	I	2101	FMN	C4A-C10	15.48	1.54	1.38
3	G	2101	FMN	C4A-C10	15.42	1.54	1.38
3	L	2101	FMN	C4A-C10	15.21	1.54	1.38
3	H	2101	FMN	C4A-C10	15.08	1.53	1.38
3	K	2101	FMN	C4A-N5	12.95	1.51	1.33
3	J	2101	FMN	C4A-N5	12.85	1.51	1.33
3	K	2101	FMN	C10-N1	12.73	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	2101	FMN	C4A-N5	12.61	1.51	1.33
3	H	2101	FMN	C4A-N5	12.56	1.51	1.33
3	G	2101	FMN	C4A-N5	12.44	1.51	1.33
3	G	2101	FMN	C10-N1	12.29	1.49	1.33
3	I	2101	FMN	C4A-N5	12.20	1.50	1.33
3	J	2101	FMN	C10-N1	12.03	1.48	1.33
3	I	2101	FMN	C10-N1	12.02	1.48	1.33
3	H	2101	FMN	C10-N1	11.81	1.48	1.33
3	L	2101	FMN	C10-N1	11.72	1.48	1.33
3	J	2101	FMN	C6-C5A	11.14	1.59	1.41
3	K	2101	FMN	C6-C5A	11.10	1.59	1.41
3	I	2101	FMN	C6-C5A	10.88	1.58	1.41
3	H	2101	FMN	C6-C5A	10.82	1.58	1.41
3	G	2101	FMN	C6-C5A	10.70	1.58	1.41
3	L	2101	FMN	C6-C5A	10.68	1.58	1.41
3	K	2101	FMN	C9-C9A	9.86	1.60	1.40
3	J	2101	FMN	C4-N3	9.84	1.50	1.33
3	J	2101	FMN	C9-C9A	9.83	1.60	1.40
3	K	2101	FMN	C5A-N5	9.77	1.51	1.35
3	K	2101	FMN	C4-N3	9.75	1.50	1.33
3	I	2101	FMN	C9-C9A	9.72	1.60	1.40
3	J	2101	FMN	C5A-N5	9.68	1.51	1.35
3	H	2101	FMN	C9-C9A	9.63	1.60	1.40
3	I	2101	FMN	C4-N3	9.62	1.49	1.33
3	L	2101	FMN	C9-C9A	9.61	1.59	1.40
3	L	2101	FMN	C4-N3	9.60	1.49	1.33
3	H	2101	FMN	C5A-N5	9.58	1.51	1.35
3	G	2101	FMN	C4-N3	9.55	1.49	1.33
3	I	2101	FMN	C5A-N5	9.53	1.51	1.35
3	H	2101	FMN	C4-N3	9.49	1.49	1.33
3	L	2101	FMN	C5A-N5	9.43	1.51	1.35
3	G	2101	FMN	C9-C9A	9.41	1.59	1.40
3	G	2101	FMN	C5A-N5	9.41	1.50	1.35
3	I	2101	FMN	C9A-N10	8.71	1.50	1.38
3	K	2101	FMN	C2-N1	8.69	1.55	1.38
3	L	2101	FMN	C9A-N10	8.68	1.50	1.38
3	H	2101	FMN	C9A-N10	8.62	1.50	1.38
3	G	2101	FMN	C2-N1	8.54	1.55	1.38
3	J	2101	FMN	C9A-N10	8.47	1.50	1.38
3	K	2101	FMN	C9A-N10	8.47	1.50	1.38
3	G	2101	FMN	C9A-N10	8.30	1.49	1.38
3	J	2101	FMN	C2-N1	8.23	1.54	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	2101	FMN	C2-N1	8.16	1.54	1.38
3	I	2101	FMN	C2-N1	8.11	1.54	1.38
3	K	2101	FMN	C6-C7	8.03	1.58	1.37
3	J	2101	FMN	C6-C7	7.91	1.57	1.37
3	H	2101	FMN	C2-N1	7.91	1.53	1.38
3	H	2101	FMN	C6-C7	7.88	1.57	1.37
3	G	2101	FMN	C6-C7	7.82	1.57	1.37
3	I	2101	FMN	C6-C7	7.65	1.57	1.37
3	L	2101	FMN	C6-C7	7.57	1.57	1.37
3	K	2101	FMN	C9-C8	7.42	1.56	1.37
3	J	2101	FMN	C9-C8	7.40	1.56	1.37
3	J	2101	FMN	C8-C7	7.29	1.59	1.40
3	I	2101	FMN	C9-C8	7.29	1.56	1.37
3	H	2101	FMN	C9-C8	7.18	1.56	1.37
3	G	2101	FMN	C9-C8	7.16	1.56	1.37
3	K	2101	FMN	C4-C4A	7.15	1.53	1.41
3	J	2101	FMN	C2-N3	7.10	1.52	1.38
3	K	2101	FMN	C8-C7	7.07	1.58	1.40
3	J	2101	FMN	C4-C4A	6.98	1.53	1.41
3	I	2101	FMN	C2-N3	6.97	1.52	1.38
3	G	2101	FMN	C2-N3	6.97	1.52	1.38
3	L	2101	FMN	C2-N3	6.95	1.51	1.38
3	K	2101	FMN	C2-N3	6.94	1.51	1.38
3	L	2101	FMN	C9-C8	6.94	1.55	1.37
3	J	2101	FMN	O4-C4	6.93	1.42	1.24
3	H	2101	FMN	C2-N3	6.82	1.51	1.38
3	G	2101	FMN	C4-C4A	6.74	1.53	1.41
3	I	2101	FMN	C8-C7	6.73	1.57	1.40
3	L	2101	FMN	C4-C4A	6.73	1.53	1.41
3	L	2101	FMN	O4-C4	6.70	1.41	1.24
3	H	2101	FMN	C8-C7	6.61	1.57	1.40
3	K	2101	FMN	O4-C4	6.60	1.41	1.24
3	L	2101	FMN	C8-C7	6.59	1.57	1.40
3	J	2101	FMN	C9A-C5A	6.56	1.55	1.42
3	I	2101	FMN	C4-C4A	6.55	1.52	1.41
3	I	2101	FMN	O4-C4	6.50	1.40	1.24
3	H	2101	FMN	O4-C4	6.50	1.40	1.24
3	G	2101	FMN	C8-C7	6.48	1.57	1.40
3	G	2101	FMN	O4-C4	6.45	1.40	1.24
3	H	2101	FMN	C4-C4A	6.28	1.52	1.41
3	K	2101	FMN	C9A-C5A	6.16	1.54	1.42
3	I	2101	FMN	C9A-C5A	6.09	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	2101	FMN	C9A-C5A	6.07	1.54	1.42
3	H	2101	FMN	C9A-C5A	6.02	1.54	1.42
3	G	2101	FMN	C9A-C5A	5.94	1.54	1.42
3	J	2101	FMN	C5'-C4'	3.14	1.56	1.51
3	G	2101	FMN	P-O2P	3.07	1.66	1.54
3	J	2101	FMN	P-O3P	3.05	1.66	1.54
3	K	2101	FMN	P-O3P	2.99	1.66	1.54
3	K	2101	FMN	P-O2P	2.96	1.66	1.54
3	H	2101	FMN	P-O2P	2.96	1.66	1.54
3	H	2101	FMN	C5'-C4'	2.92	1.55	1.51
3	L	2101	FMN	P-O2P	2.89	1.66	1.54
3	J	2101	FMN	P-O2P	2.75	1.65	1.54
3	I	2101	FMN	P-O2P	2.74	1.65	1.54
3	K	2101	FMN	C5'-C4'	2.74	1.55	1.51
3	G	2101	FMN	P-O3P	2.73	1.65	1.54
3	H	2101	FMN	P-O3P	2.72	1.65	1.54
3	I	2101	FMN	P-O3P	2.69	1.65	1.54
3	L	2101	FMN	P-O3P	2.56	1.64	1.54
3	K	2101	FMN	P-O5'	2.36	1.67	1.60
3	G	2101	FMN	C5'-C4'	2.33	1.55	1.51
3	K	2101	FMN	C7M-C7	2.27	1.55	1.51
3	H	2101	FMN	C7M-C7	2.18	1.55	1.51
3	L	2101	FMN	C5'-C4'	2.14	1.54	1.51
3	I	2101	FMN	C8M-C8	2.11	1.55	1.51
3	J	2101	FMN	C8M-C8	2.10	1.55	1.51
3	J	2101	FMN	C7M-C7	2.10	1.55	1.51
3	G	2101	FMN	C8M-C8	2.08	1.55	1.51
3	I	2101	FMN	C5'-C4'	2.05	1.54	1.51
3	G	2101	FMN	C7M-C7	2.04	1.55	1.51

All (43) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	2101	FMN	C4-N3-C2	6.51	120.64	115.14
3	H	2101	FMN	C4-N3-C2	6.25	120.42	115.14
3	I	2101	FMN	C4-N3-C2	6.04	120.25	115.14
3	L	2101	FMN	C4-N3-C2	6.01	120.22	115.14
3	J	2101	FMN	C1'-N10-C10	5.95	123.74	118.41
3	G	2101	FMN	C4-N3-C2	5.79	120.03	115.14
3	I	2101	FMN	C1'-N10-C10	5.72	123.53	118.41
3	K	2101	FMN	C4-N3-C2	5.63	119.90	115.14
3	K	2101	FMN	C1'-N10-C10	5.22	123.08	118.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	2101	FMN	C1'-N10-C10	5.18	123.05	118.41
3	H	2101	FMN	C1'-N10-C10	5.09	122.97	118.41
3	G	2101	FMN	C1'-N10-C10	5.08	122.96	118.41
3	I	2101	FMN	C5A-C9A-N10	4.47	120.95	117.72
3	K	2101	FMN	C4A-N5-C5A	4.28	121.05	116.77
3	J	2101	FMN	C5A-C9A-N10	4.09	120.68	117.72
3	G	2101	FMN	C5A-C9A-N10	4.00	120.62	117.72
3	H	2101	FMN	C5A-C9A-N10	3.88	120.53	117.72
3	L	2101	FMN	C4A-N5-C5A	3.85	120.62	116.77
3	L	2101	FMN	C5A-C9A-N10	3.83	120.49	117.72
3	H	2101	FMN	C4A-N5-C5A	3.75	120.52	116.77
3	J	2101	FMN	C4A-N5-C5A	3.63	120.40	116.77
3	I	2101	FMN	C4A-N5-C5A	3.58	120.34	116.77
3	G	2101	FMN	C4A-N5-C5A	3.54	120.31	116.77
3	K	2101	FMN	C5A-C9A-N10	3.40	120.18	117.72
3	J	2101	FMN	C1'-N10-C9A	-3.22	115.76	118.29
3	J	2101	FMN	C4A-C4-N3	-3.19	119.07	123.43
3	K	2101	FMN	C1'-N10-C9A	-2.90	116.01	118.29
3	L	2101	FMN	C4A-C4-N3	-2.67	119.78	123.43
3	I	2101	FMN	C4A-C4-N3	-2.60	119.88	123.43
3	H	2101	FMN	C1'-N10-C9A	-2.57	116.27	118.29
3	H	2101	FMN	C4A-C4-N3	-2.56	119.93	123.43
3	K	2101	FMN	O5'-P-O1P	2.40	113.20	106.47
3	L	2101	FMN	C1'-N10-C9A	-2.37	116.43	118.29
3	I	2101	FMN	C1'-N10-C9A	-2.21	116.55	118.29
3	H	2101	FMN	C9A-C5A-N5	-2.19	118.93	122.36
3	I	2101	FMN	C9A-C5A-N5	-2.12	119.05	122.36
3	L	2101	FMN	C9A-C5A-N5	-2.10	119.08	122.36
3	K	2101	FMN	C6-C5A-N5	2.09	121.36	119.05
3	J	2101	FMN	C9A-C5A-N5	-2.08	119.11	122.36
3	K	2101	FMN	C10-C4A-N5	-2.08	119.82	121.26
3	H	2101	FMN	C6-C5A-N5	2.05	121.31	119.05
3	K	2101	FMN	C9A-C5A-N5	-2.03	119.19	122.36
3	J	2101	FMN	C4'-C3'-C2'	-2.00	109.20	113.36

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	G	2101	FMN	C2'-C3'-C4'-C5'
3	G	2101	FMN	O3'-C3'-C4'-C5'
3	I	2101	FMN	C2'-C3'-C4'-C5'

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Mol	Chain	Res	Type	Atoms
3	I	2101	FMN	O3'-C3'-C4'-C5'
3	H	2101	FMN	C2'-C3'-C4'-C5'
3	H	2101	FMN	O3'-C3'-C4'-C5'
3	L	2101	FMN	O3'-C3'-C4'-C5'
3	G	2101	FMN	O3'-C3'-C4'-O4'
3	K	2101	FMN	O3'-C3'-C4'-O4'
3	I	2101	FMN	O3'-C3'-C4'-O4'
3	H	2101	FMN	O3'-C3'-C4'-O4'
3	G	2101	FMN	C2'-C3'-C4'-O4'
3	K	2101	FMN	C2'-C3'-C4'-O4'
3	J	2101	FMN	C2'-C3'-C4'-O4'
3	I	2101	FMN	C2'-C3'-C4'-O4'
3	H	2101	FMN	C2'-C3'-C4'-O4'
3	L	2101	FMN	C2'-C3'-C4'-O4'
3	K	2101	FMN	C2'-C3'-C4'-C5'
3	J	2101	FMN	C2'-C3'-C4'-C5'
3	L	2101	FMN	C2'-C3'-C4'-C5'
3	J	2101	FMN	O3'-C3'-C4'-O4'
3	L	2101	FMN	O3'-C3'-C4'-O4'
3	K	2101	FMN	O3'-C3'-C4'-C5'
3	J	2101	FMN	O3'-C3'-C4'-C5'
3	J	2101	FMN	C4'-C5'-O5'-P
3	L	2101	FMN	C4'-C5'-O5'-P
3	K	2101	FMN	C4'-C5'-O5'-P
3	H	2101	FMN	C4'-C5'-O5'-P
3	G	2101	FMN	C4'-C5'-O5'-P
3	I	2101	FMN	C4'-C5'-O5'-P

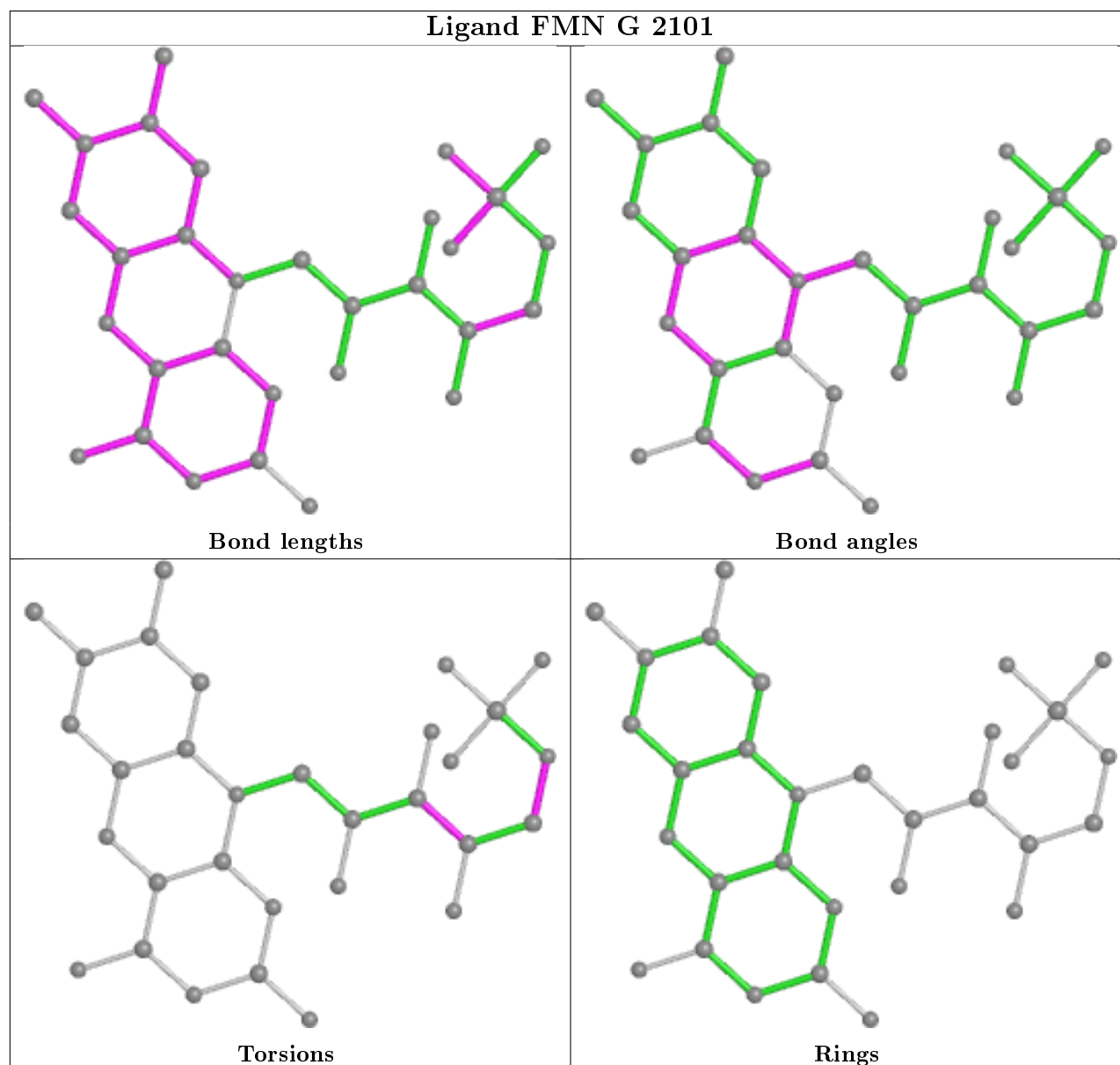
There are no ring outliers.

6 monomers are involved in 61 short contacts:

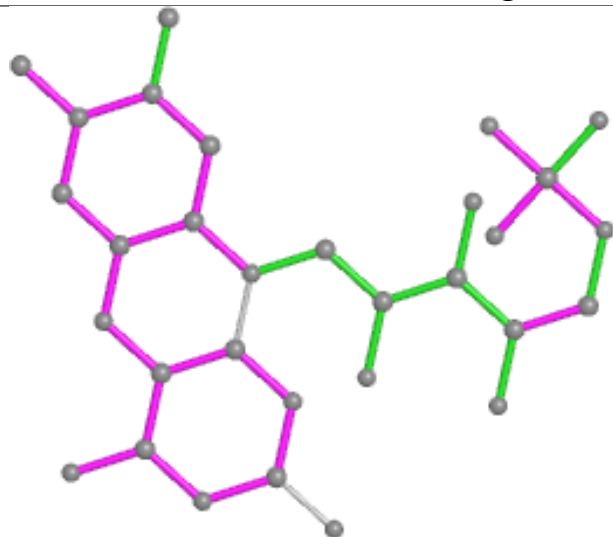
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	2101	FMN	10	0
3	K	2101	FMN	12	0
3	J	2101	FMN	9	0
3	I	2101	FMN	9	0
3	H	2101	FMN	11	0
3	L	2101	FMN	10	0

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

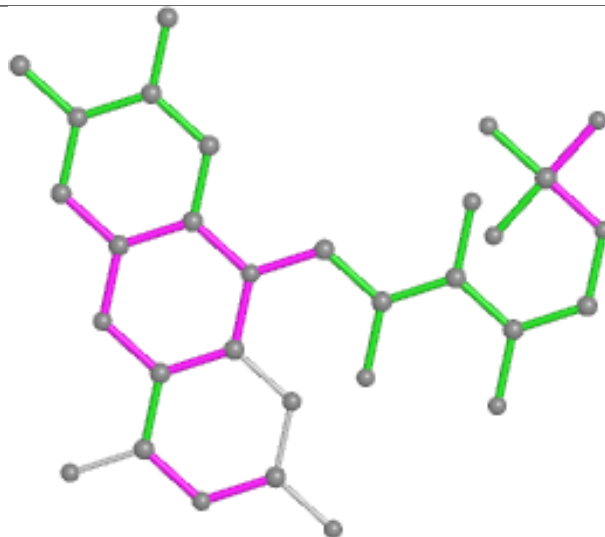
also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted 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.



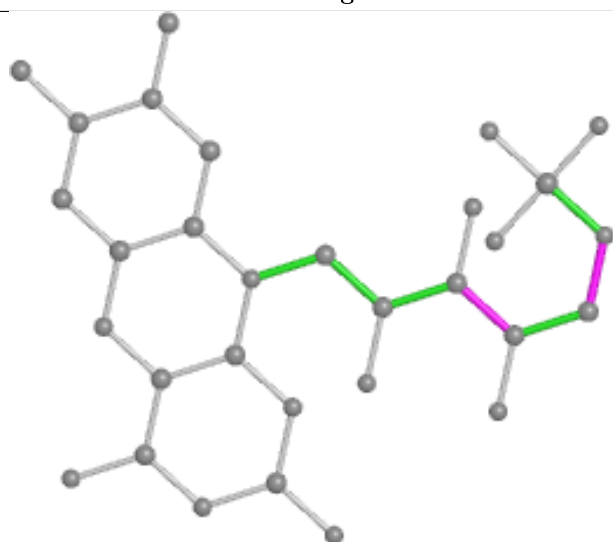
## Ligand FMN K 2101



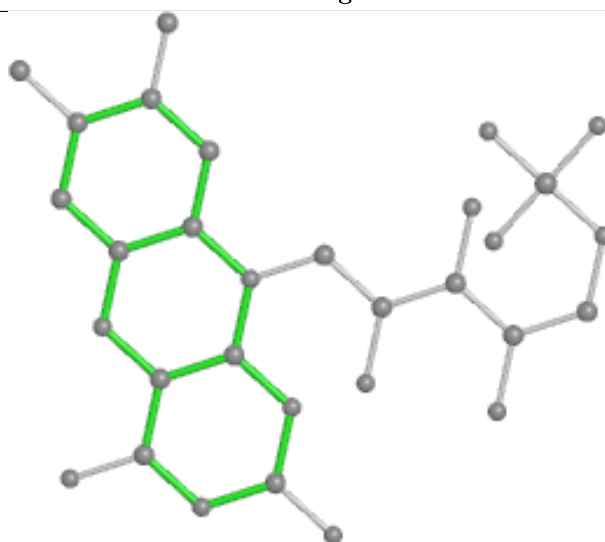
Bond lengths



Bond angles

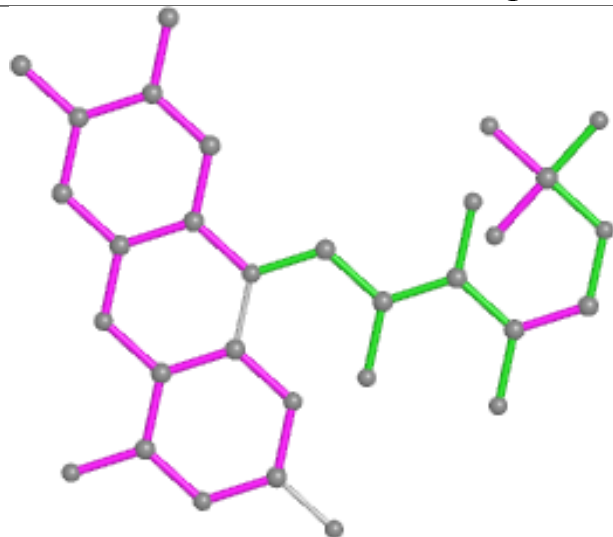


Torsions

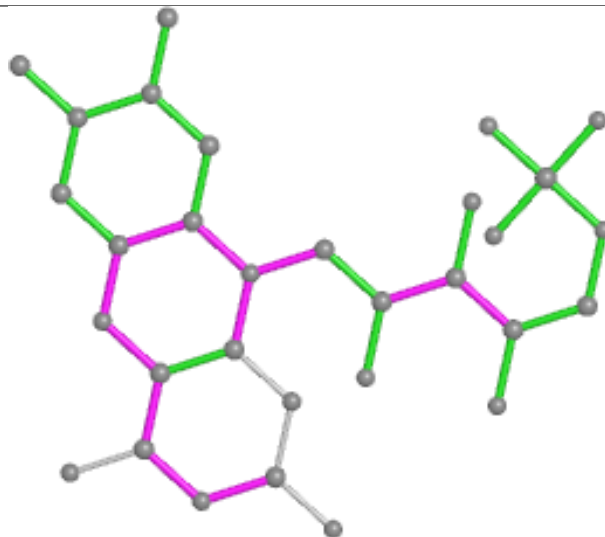


Rings

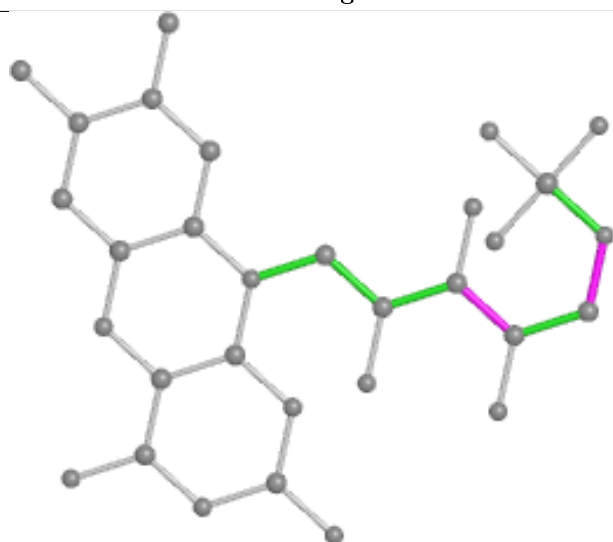
## Ligand FMN J 2101



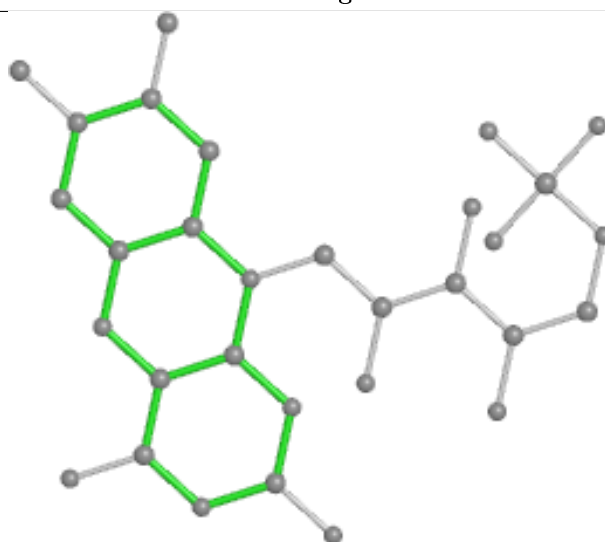
Bond lengths



Bond angles

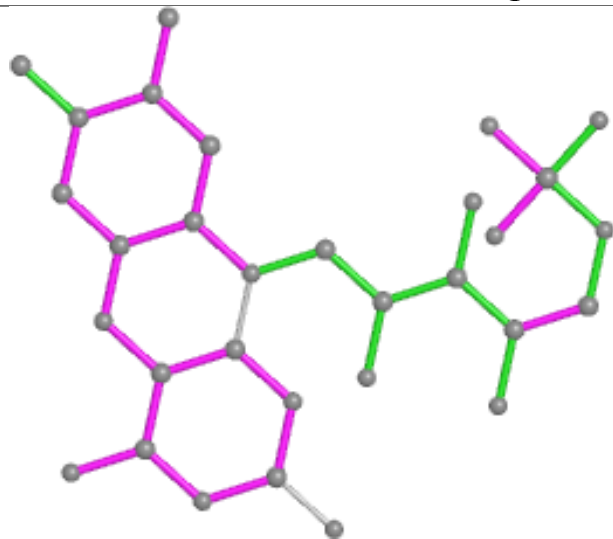


Torsions

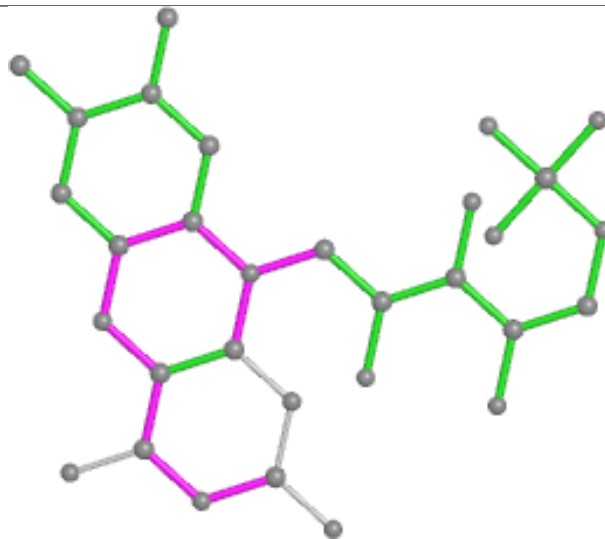


Rings

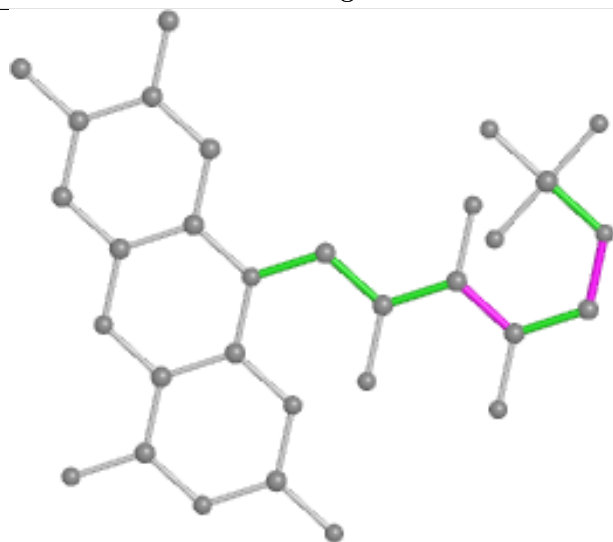
## Ligand FMN I 2101



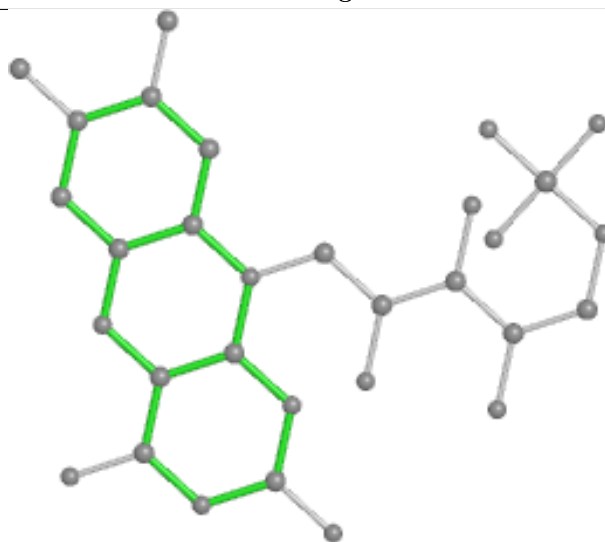
Bond lengths



Bond angles

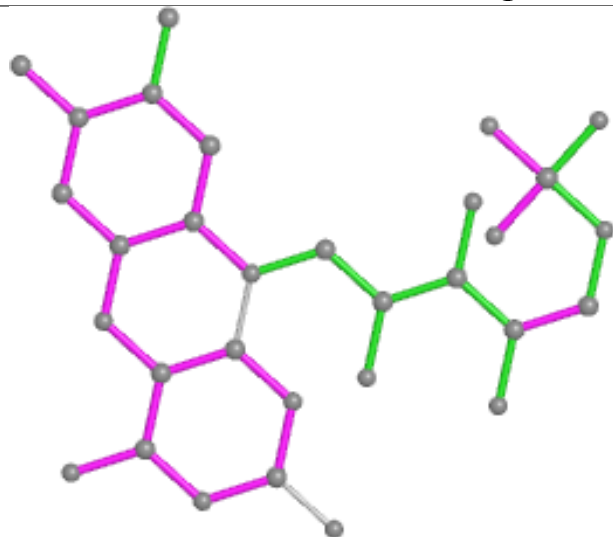


Torsions

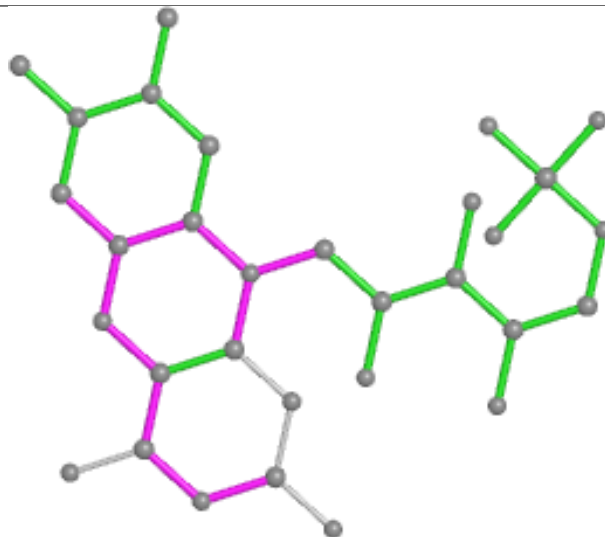


Rings

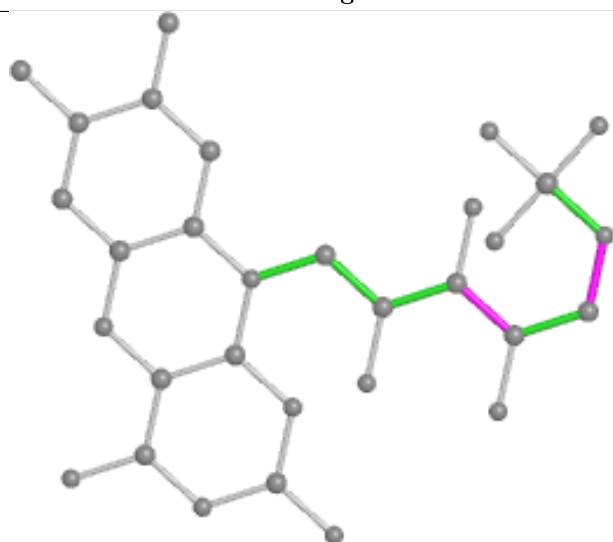
## Ligand FMN H 2101



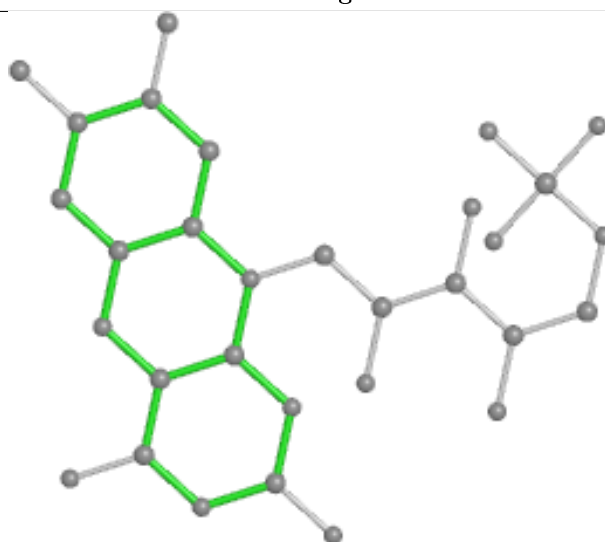
Bond lengths



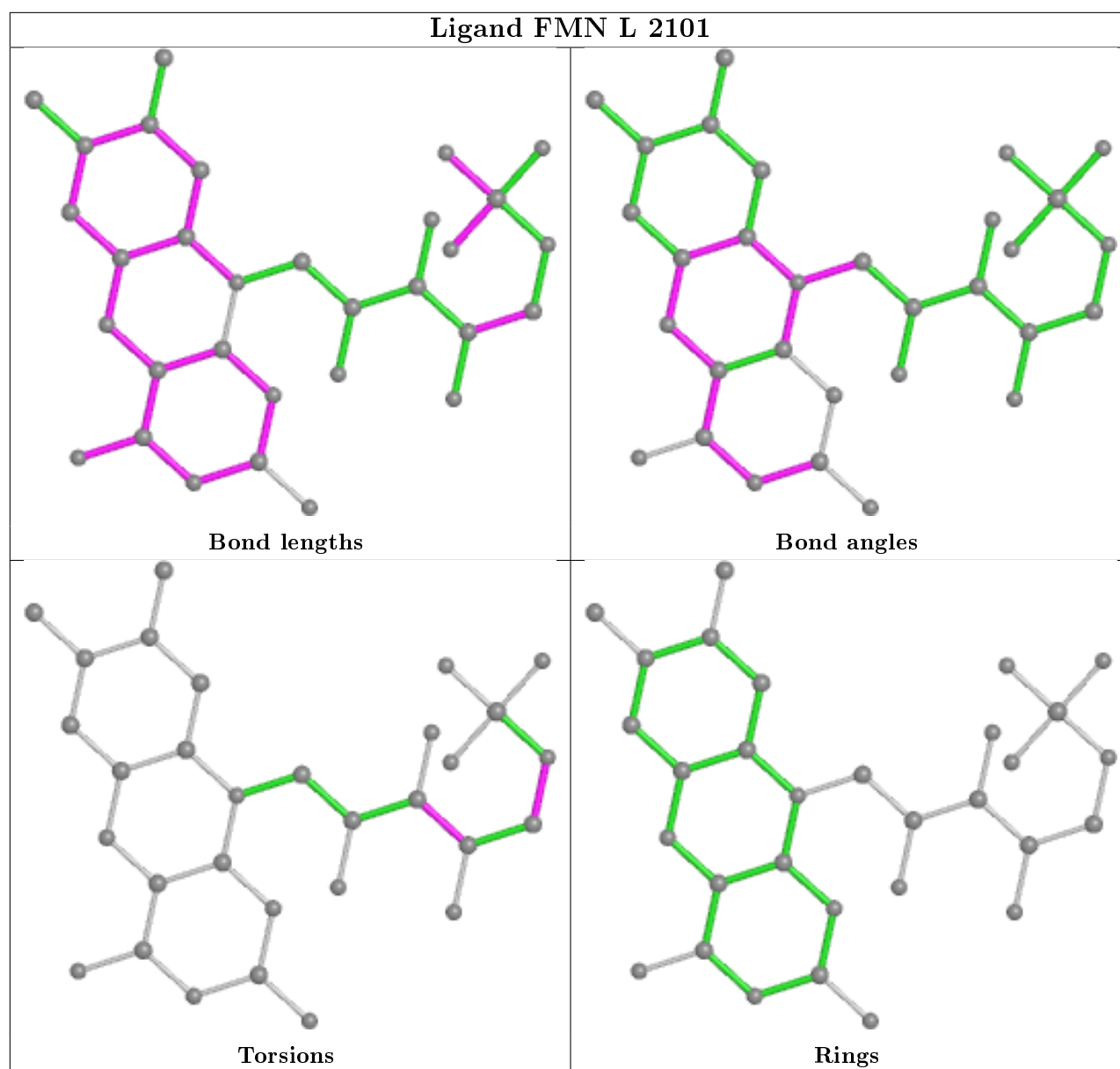
Bond angles



Torsions



Rings



## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	1457/1878 (77%)	-0.50	14 (0%)	82 67	17, 54, 105, 150	0
1	B	1464/1878 (77%)	-0.51	12 (0%)	86 72	16, 52, 111, 158	0
1	C	1462/1878 (77%)	-0.51	17 (1%)	79 61	15, 51, 111, 159	0
1	D	1467/1878 (78%)	-0.52	13 (0%)	84 69	17, 54, 108, 158	0
1	E	1456/1878 (77%)	-0.48	13 (0%)	84 69	15, 54, 110, 157	0
1	F	1461/1878 (77%)	-0.54	12 (0%)	86 72	16, 51, 108, 159	0
2	G	2060/2060 (100%)	-0.12	38 (1%)	68 47	27, 83, 129, 169	0
2	H	2060/2060 (100%)	-0.05	69 (3%)	46 24	24, 86, 132, 167	0
2	I	2060/2060 (100%)	-0.02	73 (3%)	44 23	23, 86, 132, 167	0
2	J	2060/2060 (100%)	0.03	66 (3%)	47 25	28, 89, 133, 172	0
2	K	2060/2060 (100%)	0.25	134 (6%)	18 8	27, 91, 136, 172	0
2	L	2060/2060 (100%)	0.01	76 (3%)	41 21	23, 87, 133, 172	0
All	All	21127/23628 (89%)	-0.20	537 (2%)	57 34	15, 75, 127, 172	0

All (537) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	K	40	SER	13.0
2	J	93	ASP	11.0
2	K	27	THR	9.5
2	I	19	GLN	7.4
2	G	39	THR	6.7
2	I	1123	ALA	6.7
2	L	1124	THR	6.6
1	A	853	MET	6.4
2	H	19	GLN	6.1
2	K	1225	SER	6.0
2	I	1773	GLY	6.0

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Mol	Chain	Res	Type	RSRZ
1	E	326	ASP	5.9
2	K	93	ASP	5.8
2	G	1121	LEU	5.5
2	L	93	ASP	5.3
2	K	1772	ASP	5.2
1	D	853	MET	5.2
2	L	43	PHE	5.2
2	I	61	GLU	5.2
2	H	1124	THR	5.1
2	H	59	PRO	5.0
2	K	125	ASN	5.0
2	H	93	ASP	5.0
2	H	413	GLY	5.0
2	G	427	ARG	4.9
2	L	1225	SER	4.9
2	H	175	GLY	4.9
2	K	1988	GLN	4.8
1	B	94	PRO	4.8
2	H	1123	ALA	4.7
2	K	1958	GLN	4.7
2	G	1124	THR	4.7
2	I	1122	LYS	4.7
2	K	1999	ARG	4.6
2	K	39	THR	4.6
2	H	155	ASP	4.5
2	G	1954	GLN	4.5
2	L	1123	ALA	4.5
2	H	1129	ASP	4.5
2	K	92	GLU	4.5
2	I	67	ASP	4.5
2	K	26	LEU	4.5
2	K	1777	THR	4.4
2	I	62	GLU	4.4
2	I	146	ALA	4.4
2	I	1124	THR	4.4
2	J	1392	GLY	4.3
2	I	1906	ASN	4.3
2	K	176	GLN	4.3
2	H	1122	LYS	4.3
2	K	67	ASP	4.2
2	L	1224	GLN	4.2
2	H	35	PHE	4.2

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Mol	Chain	Res	Type	RSRZ
2	H	1988	GLN	4.2
2	K	178	ASN	4.1
2	K	296	ALA	4.1
1	E	94	PRO	4.1
2	I	1223	SER	4.1
2	L	92	GLU	4.1
1	F	853	MET	4.0
2	I	1772	ASP	4.0
1	D	1455	SER	4.0
2	K	550	THR	4.0
2	H	1986	PRO	4.0
2	I	2056	GLU	4.0
2	K	107	ASN	4.0
2	J	1954	GLN	3.9
1	C	1457	GLU	3.9
2	K	175	GLY	3.9
2	K	19	GLN	3.9
1	B	853	MET	3.9
2	J	23	PRO	3.8
2	L	1122	LYS	3.8
2	G	47	GLN	3.8
2	I	1901	GLN	3.8
2	I	58	GLN	3.8
2	K	294	ALA	3.8
2	I	1128	PRO	3.8
1	B	1	MET	3.8
2	K	1774	SER	3.8
2	K	485	ASP	3.7
2	I	1954	GLN	3.7
2	K	123	ALA	3.7
2	I	1830	ASP	3.7
2	K	224	GLY	3.7
2	H	178	ASN	3.7
1	A	562	SER	3.7
2	K	281	GLY	3.7
2	K	1961	SER	3.7
2	J	1999	ARG	3.7
2	L	1575	ALA	3.7
2	I	1126	GLU	3.7
2	I	1850	VAL	3.6
2	H	1954	GLN	3.6
2	J	25	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
2	L	484	GLU	3.6
2	K	623	ASN	3.6
2	J	1913	TRP	3.6
2	H	67	ASP	3.6
2	J	1982	ALA	3.6
2	J	19	GLN	3.6
2	K	1959	SER	3.6
2	I	1149	ALA	3.5
2	J	24	LEU	3.5
2	L	1129	ASP	3.5
2	H	1140	ASN	3.5
2	K	548	THR	3.4
2	I	1951	ILE	3.4
2	J	59	PRO	3.4
2	K	1129	ASP	3.4
2	G	92	GLU	3.4
2	K	32	GLU	3.4
2	K	1775	ILE	3.4
2	G	277	GLU	3.4
2	G	19	GLN	3.4
2	J	1252	ALA	3.4
2	H	1979	GLN	3.4
2	H	1985	GLN	3.4
1	F	1460	PRO	3.4
2	K	1200	ARG	3.4
2	K	1121	LEU	3.3
2	J	68	GLU	3.3
2	J	1119	ARG	3.3
2	K	105	ILE	3.3
1	D	1	MET	3.3
1	B	586	GLN	3.3
2	I	1225	SER	3.3
1	F	556	HIS	3.3
2	G	482	GLY	3.3
2	J	1125	ASP	3.3
1	F	854	SER	3.2
2	G	40	SER	3.2
2	H	58	GLN	3.2
2	K	284	GLY	3.2
1	E	850	THR	3.2
2	H	1340	LYS	3.2
2	L	61	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
2	J	1876	GLN	3.2
2	I	1770	ASN	3.2
2	J	91	ASP	3.2
1	E	1460	PRO	3.2
2	J	1993	PHE	3.2
2	J	1770	ASN	3.2
2	I	1991	ARG	3.2
2	I	93	ASP	3.2
2	K	163	ALA	3.2
2	G	1771	ALA	3.2
2	J	423	GLN	3.2
2	L	58	GLN	3.2
2	H	1952	ASP	3.2
2	K	1131	ASP	3.2
2	K	1950	LYS	3.1
2	J	81	ALA	3.1
2	K	212	ALA	3.1
2	K	435	ILE	3.1
2	L	215	TRP	3.1
1	D	1707	SER	3.1
1	F	568	ALA	3.1
2	K	557	GLU	3.1
2	G	412	THR	3.1
2	L	412	THR	3.1
2	G	44	GLN	3.1
2	K	657	GLY	3.1
2	I	1982	ALA	3.1
2	K	69	PRO	3.1
2	L	1986	PRO	3.1
2	J	1877	GLY	3.1
2	J	39	THR	3.0
1	B	850	THR	3.0
2	H	1674	THR	3.0
2	L	1948	MET	3.0
2	I	27	THR	3.0
2	L	1926	GLN	3.0
1	C	1458	ASP	3.0
2	I	1890	ARG	3.0
2	K	109	PHE	3.0
2	K	1921	ASN	3.0
2	L	2036	ILE	3.0
2	H	1943	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
2	K	155	ASP	3.0
2	I	40	SER	3.0
2	L	1894	THR	3.0
2	K	44	GLN	3.0
1	D	1456	GLU	3.0
2	J	61	GLU	3.0
2	K	56	LEU	2.9
2	J	92	GLU	2.9
1	B	608	LYS	2.9
2	J	94	ALA	2.9
2	I	1868	GLN	2.9
2	I	1876	GLN	2.9
2	J	1225	SER	2.9
2	J	175	GLY	2.9
2	J	1566	LYS	2.9
2	J	1945	ILE	2.9
2	L	1125	ASP	2.9
2	J	2078	GLU	2.9
2	L	40	SER	2.9
2	K	2008	THR	2.9
2	K	458	MET	2.9
2	J	1675	ASP	2.9
2	H	1225	SER	2.9
2	K	138	ARG	2.9
2	L	1310	ASP	2.9
2	G	1769	VAL	2.9
2	G	1985	GLN	2.9
1	A	547	SER	2.9
2	I	564	ASN	2.9
2	I	1138	ASP	2.9
1	A	546	ARG	2.9
1	E	59	ARG	2.9
2	L	57	PRO	2.9
2	J	195	SER	2.9
1	D	1454	ARG	2.9
2	J	88	ASP	2.9
2	K	111	ARG	2.8
2	H	1875	GLU	2.8
2	H	90	GLY	2.8
2	I	1939	LEU	2.8
2	K	427	ARG	2.8
2	I	2063	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	854	SER	2.8
1	C	1452	SER	2.8
2	J	30	SER	2.8
2	K	1770	ASN	2.8
2	K	708	THR	2.8
2	K	817	MET	2.8
2	H	61	GLU	2.8
2	J	72	VAL	2.8
2	K	563	ASP	2.8
1	D	327	ALA	2.8
2	L	30	SER	2.8
2	H	1138	ASP	2.8
1	C	1461	PHE	2.8
2	J	1941	ASN	2.8
2	L	29	GLY	2.8
2	K	1140	ASN	2.8
2	J	154	TYR	2.8
2	K	756	ASP	2.8
1	F	559	SER	2.8
1	C	1464	THR	2.8
2	L	1984	PRO	2.8
2	J	97	THR	2.7
2	H	657	GLY	2.7
2	H	2051	SER	2.7
2	K	484	GLU	2.7
2	K	483	ASP	2.7
2	J	35	PHE	2.7
2	K	1159	SER	2.7
2	K	85	HIS	2.7
2	J	67	ASP	2.7
2	K	2000	GLY	2.7
2	H	1965	VAL	2.7
2	H	1984	PRO	2.7
2	H	2069	ASN	2.7
2	J	1769	VAL	2.7
1	E	851	GLY	2.7
2	H	427	ARG	2.7
2	H	861	MET	2.7
2	K	1122	LYS	2.7
2	L	2051	SER	2.7
2	K	1627	ASN	2.7
2	K	516	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
2	K	373	PRO	2.7
2	K	1152	ALA	2.7
2	I	60	THR	2.6
2	G	111	ARG	2.6
2	J	1771	ALA	2.6
2	G	20	SER	2.6
2	I	44	GLN	2.6
2	K	1323	ASP	2.6
2	L	1829	ARG	2.6
1	B	854	SER	2.6
2	I	1898	GLN	2.6
2	J	1122	LYS	2.6
2	L	2075	ASP	2.6
1	C	535	TYR	2.6
2	G	1167	ASN	2.6
2	K	1240	ASN	2.6
2	J	1869	VAL	2.6
2	G	1225	SER	2.6
2	L	1130	ILE	2.6
2	J	1128	PRO	2.6
2	K	1568	PRO	2.6
2	L	574	LYS	2.6
1	D	854	SER	2.6
2	G	67	ASP	2.6
2	H	1982	ALA	2.6
2	I	1877	GLY	2.6
1	C	1	MET	2.6
2	K	784	GLY	2.6
1	B	1715	ALA	2.6
2	J	473	LYS	2.5
1	E	545	LEU	2.5
2	G	1125	ASP	2.5
2	L	71	SER	2.5
2	J	1933	LEU	2.5
2	J	1123	ALA	2.5
2	H	23	PRO	2.5
2	L	1126	GLU	2.5
2	L	1566	LYS	2.5
1	F	622	GLU	2.5
2	H	1968	HIS	2.5
1	D	425	VAL	2.5
2	L	1178	THR	2.5

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Mol	Chain	Res	Type	RSRZ
2	H	1983	LYS	2.5
2	K	41	LEU	2.5
2	G	50	ASP	2.5
2	J	38	PRO	2.5
2	L	309	LYS	2.5
2	G	1876	GLN	2.5
2	I	1224	GLN	2.5
2	I	1949	GLN	2.5
2	L	567	GLN	2.5
2	K	1340	LYS	2.5
1	C	1459	GLY	2.5
2	L	1888	PRO	2.5
2	K	215	TRP	2.5
2	H	1830	ASP	2.5
2	I	150	ALA	2.5
2	K	58	GLN	2.5
2	K	1965	VAL	2.5
2	L	1982	ALA	2.5
2	K	20	SER	2.5
2	J	1124	THR	2.5
2	K	77	ALA	2.5
2	I	30	SER	2.5
2	H	277	GLU	2.5
2	I	2078	GLU	2.5
1	D	1464	THR	2.5
2	J	1950	LYS	2.5
2	K	124	ALA	2.5
2	H	1999	ARG	2.5
1	E	1409	GLY	2.4
2	L	1987	VAL	2.4
1	A	855	ALA	2.4
2	I	151	PRO	2.4
2	K	118	ASP	2.4
1	B	560	LYS	2.4
2	H	24	LEU	2.4
1	A	850	THR	2.4
2	L	564	ASN	2.4
2	I	1958	GLN	2.4
2	H	34	SER	2.4
2	K	1269	ALA	2.4
2	L	1297	LYS	2.4
1	C	586	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
2	G	1949	GLN	2.4
2	G	1962	LEU	2.4
2	K	606	ALA	2.4
2	K	1126	GLU	2.4
2	L	1954	GLN	2.4
2	L	39	THR	2.4
2	K	1298	GLU	2.4
1	D	1709	GLY	2.4
2	L	1567	THR	2.4
2	K	297	THR	2.4
2	L	154	TYR	2.4
2	L	1211	ASP	2.4
2	K	476	GLN	2.4
2	H	535	THR	2.4
2	K	1768	THR	2.4
1	C	5	VAL	2.4
1	C	75	GLN	2.4
2	L	19	GLN	2.4
1	C	539	THR	2.4
2	G	1122	LYS	2.4
2	I	1125	ASP	2.4
2	K	279	PHE	2.4
1	B	93	GLU	2.4
2	I	1872	GLU	2.4
2	K	1955	ALA	2.4
2	K	140	TYR	2.3
2	K	791	TYR	2.3
2	G	1878	ARG	2.3
2	L	1140	ASN	2.3
2	G	1224	GLN	2.3
2	J	239	ASP	2.3
2	H	387	ARG	2.3
2	K	234	PRO	2.3
2	H	1987	VAL	2.3
2	I	1556	ASN	2.3
2	K	482	GLY	2.3
2	G	61	GLU	2.3
2	K	533	ASP	2.3
1	E	1408	SER	2.3
2	G	972	SER	2.3
2	I	1902	TYR	2.3
2	L	111	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	76	VAL	2.3
2	L	453	GLY	2.3
2	G	95	HIS	2.3
2	J	215	TRP	2.3
2	K	1211	ASP	2.3
1	C	1454	ARG	2.3
2	I	148	GLY	2.3
2	J	1989	LEU	2.3
2	L	36	LEU	2.3
2	K	2075	ASP	2.3
1	B	624	GLY	2.3
1	A	553	ARG	2.3
2	I	277	GLU	2.3
2	K	64	ALA	2.3
2	L	417	ASN	2.3
1	A	1457	GLU	2.3
2	K	146	ALA	2.3
2	K	1830	ASP	2.3
2	K	1743	LYS	2.3
2	L	70	SER	2.3
2	I	1775	ILE	2.3
2	L	1951	ILE	2.3
2	K	1078	VAL	2.3
2	K	1829	ARG	2.3
2	K	1717	GLU	2.3
2	L	683	ASP	2.3
1	D	75	GLN	2.3
2	H	1955	ALA	2.3
2	I	72	VAL	2.3
2	I	1908	ALA	2.3
1	C	84	ASP	2.2
2	L	1239	ASP	2.2
2	H	33	PHE	2.2
2	H	1953	ILE	2.2
1	E	854	SER	2.2
1	E	1715	ALA	2.2
2	H	40	SER	2.2
2	K	171	SER	2.2
1	E	544	ASP	2.2
2	G	297	THR	2.2
2	G	1830	ASP	2.2
1	A	622	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
2	H	1912	GLY	2.2
2	L	1227	LYS	2.2
1	C	1460	PRO	2.2
1	F	850	THR	2.2
2	H	1997	PRO	2.2
2	J	127	ALA	2.2
2	K	1949	GLN	2.2
2	J	1750	GLY	2.2
2	I	1955	ALA	2.2
2	K	694	ALA	2.2
1	F	624	GLY	2.2
2	I	1482	GLU	2.2
2	H	1239	ASP	2.2
2	I	1984	PRO	2.2
2	L	1887	ASN	2.2
1	A	1409	GLY	2.2
2	J	58	GLN	2.2
1	F	976	ASP	2.2
2	K	509	ASP	2.2
2	L	23	PRO	2.2
2	I	1897	GLU	2.2
2	H	1878	ARG	2.2
2	J	133	LYS	2.2
2	J	112	ALA	2.2
2	K	295	ILE	2.2
2	J	139	ALA	2.1
1	C	804	ASN	2.1
2	H	448	HIS	2.1
1	A	557	ARG	2.1
2	K	1210	ASP	2.1
2	G	1958	GLN	2.1
2	I	1987	VAL	2.1
2	K	61	GLU	2.1
2	I	1226	ALA	2.1
2	I	1880	ASN	2.1
2	J	178	ASN	2.1
2	J	1313	ARG	2.1
2	L	27	THR	2.1
2	L	548	THR	2.1
2	J	275	LEU	2.1
2	L	1831	SER	2.1
2	I	1239	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
2	H	151	PRO	2.1
1	D	426	ASP	2.1
2	K	1916	GLU	2.1
2	K	1971	GLU	2.1
1	B	1135	THR	2.1
2	H	1958	GLN	2.1
2	K	1423	GLY	2.1
2	L	90	GLY	2.1
2	K	1902	TYR	2.1
2	G	563	ASP	2.1
2	I	423	GLN	2.1
1	F	952	TYR	2.1
1	F	8	GLU	2.1
2	K	51	SER	2.1
2	H	1125	ASP	2.1
2	J	453	GLY	2.1
2	G	1967	ALA	2.1
2	K	704	GLU	2.1
2	H	1775	ILE	2.1
2	I	184	ASP	2.1
2	K	225	LEU	2.1
2	L	483	ASP	2.1
2	L	1988	GLN	2.1
2	K	325	ALA	2.1
2	K	327	PRO	2.1
2	K	25	VAL	2.1
1	C	851	GLY	2.1
2	I	88	ASP	2.1
2	K	477	ASP	2.1
1	E	1	MET	2.1
2	G	1340	LYS	2.1
2	H	27	THR	2.1
2	H	1119	ARG	2.1
2	K	1214	LYS	2.1
2	K	127	ALA	2.1
2	L	2008	THR	2.1
2	L	1900	LEU	2.1
2	I	1988	GLN	2.0
2	L	1906	ASN	2.0
2	H	1876	GLN	2.0
2	L	1478	GLN	2.0
2	L	1788	SER	2.0

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Mol	Chain	Res	Type	RSRZ
2	K	1951	ILE	2.0
2	K	177	GLY	2.0
2	L	2076	LYS	2.0
2	K	1882	ALA	2.0
2	H	148	GLY	2.0
2	I	1137	ARG	2.0
2	I	1519	THR	2.0
1	A	1456	GLU	2.0
2	H	1916	GLU	2.0
2	L	44	GLN	2.0
2	K	88	ASP	2.0
2	K	1968	HIS	2.0
2	L	1969	LEU	2.0
2	H	152	LYS	2.0
2	H	53	LEU	2.0
2	H	1480	ASP	2.0
2	I	820	LYS	2.0
2	K	546	ASP	2.0
2	L	128	GLY	2.0
2	I	1986	PRO	2.0
2	I	1296	GLU	2.0
1	A	1454	ARG	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 carbohydrates 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, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	FMN	K	2101	31/31	0.90	0.19	24,63,111,122	0

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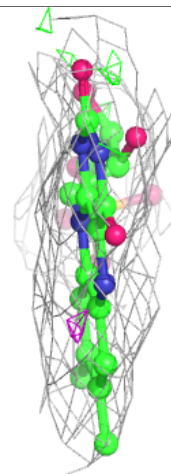
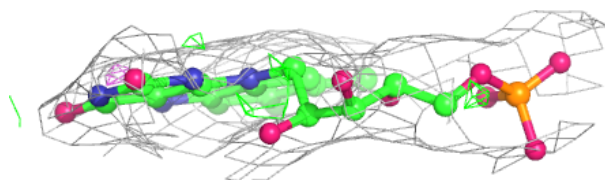
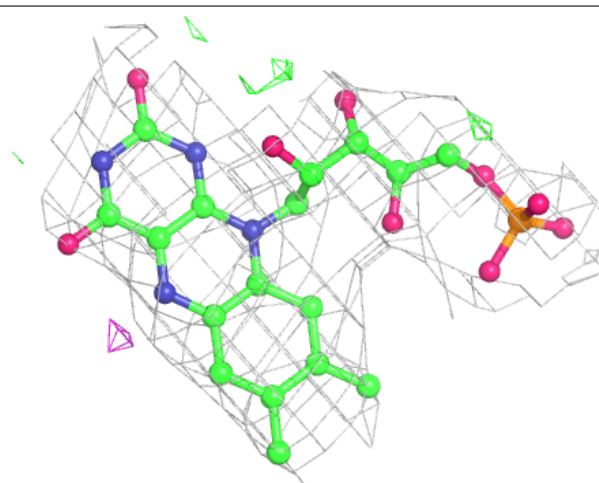
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	FMN	I	2101	31/31	0.93	0.18	23,54,85,115	0
3	FMN	J	2101	31/31	0.94	0.15	19,56,106,122	0
3	FMN	G	2101	31/31	0.94	0.20	19,64,105,124	0
3	FMN	H	2101	31/31	0.94	0.18	21,53,91,110	0
3	FMN	L	2101	31/31	0.94	0.18	15,51,89,119	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.

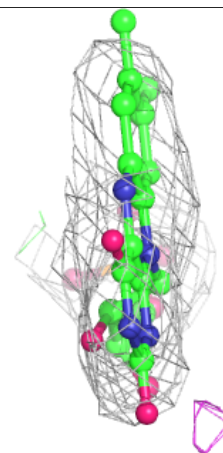
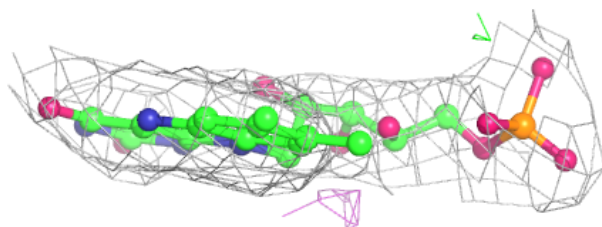
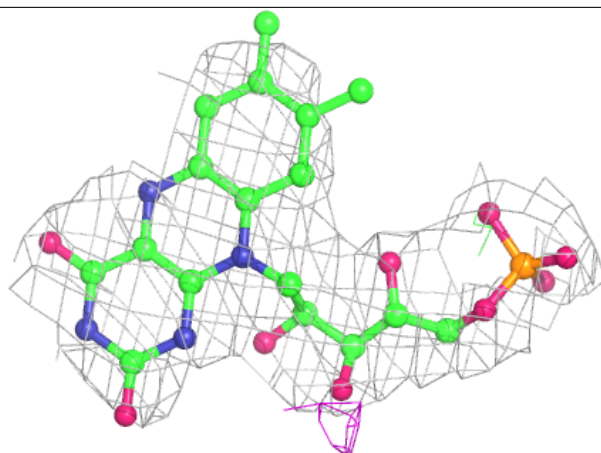
**Electron density around FMN K 2101:**

2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray  
mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative)  
and green (positive)

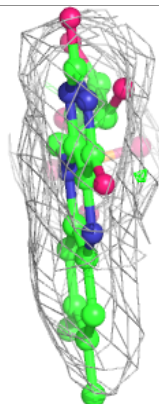
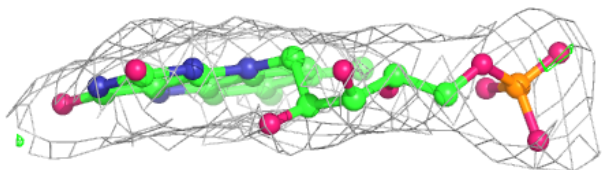
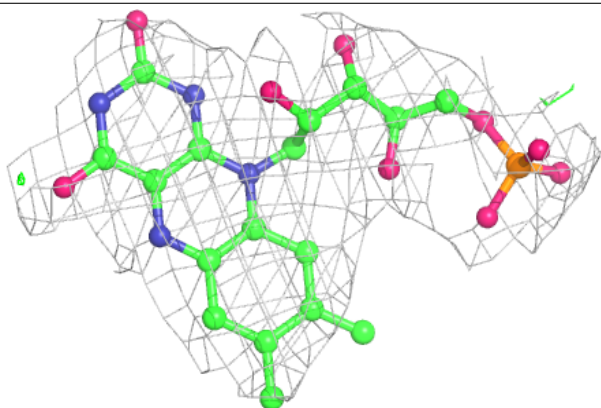


**Electron density around FMN I 2101:**

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

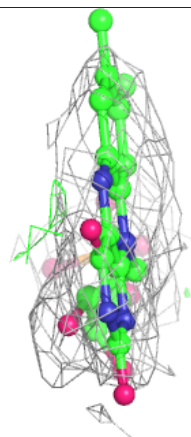
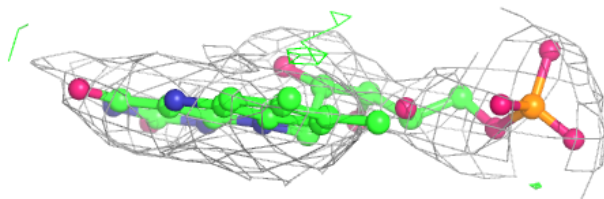
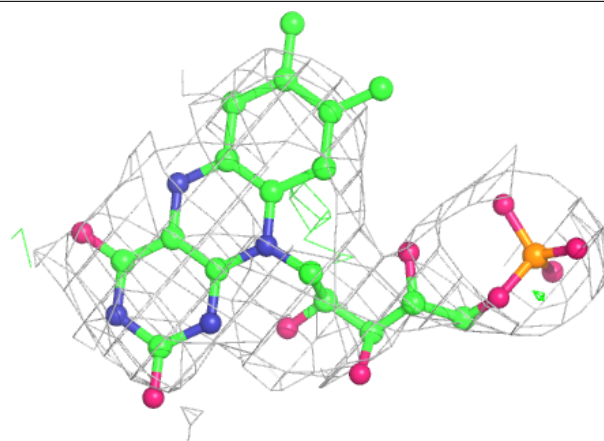
**Electron density around FMN J 2101:**

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



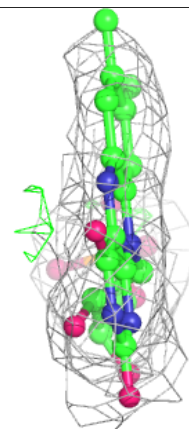
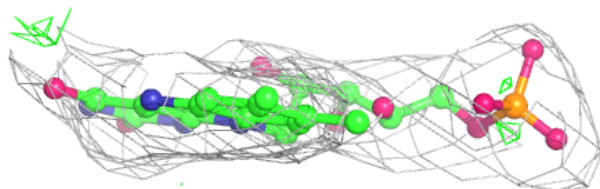
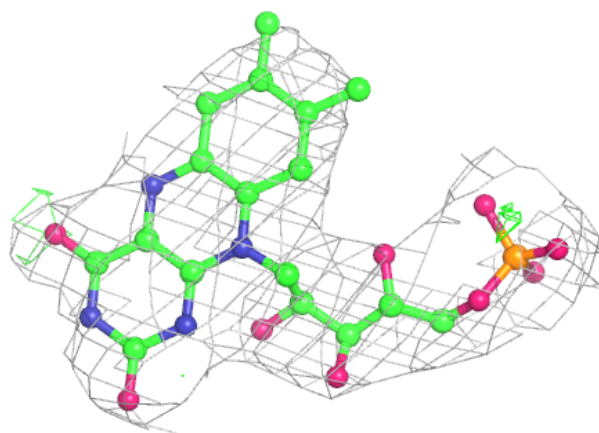
**Electron density around FMN G 2101:**

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



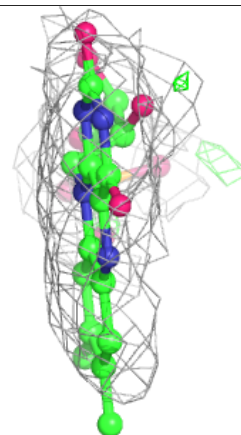
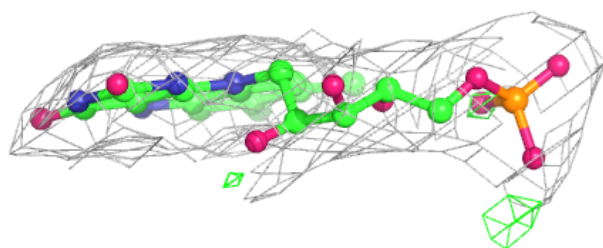
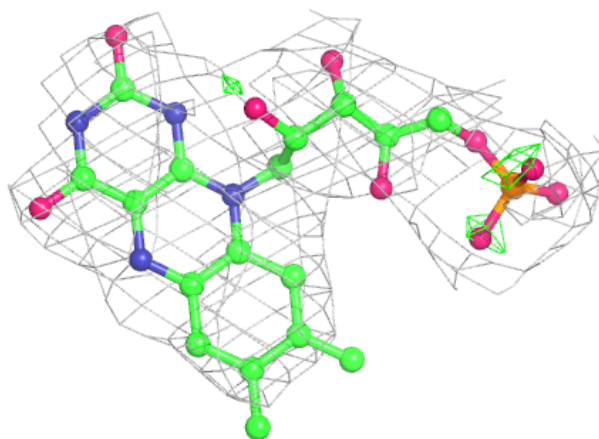
**Electron density around FMN H 2101:**

$2mF_o - DF_c$  (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.