



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 2, 2020 – 08:02 am BST

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

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The 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

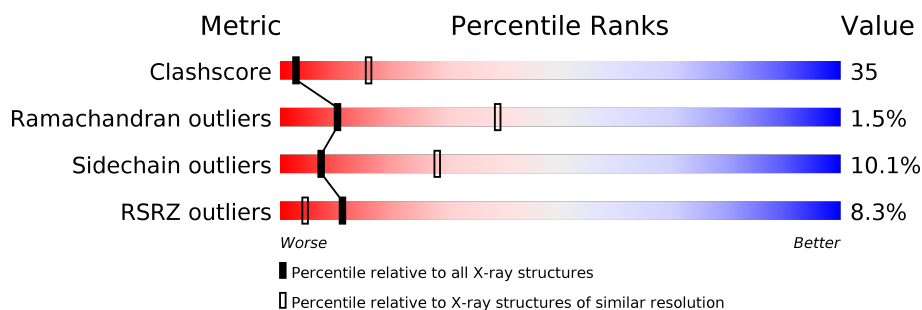
1 Overall quality at a glance

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 ≥ 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	
1	B	1878	
1	C	1878	
1	D	1878	
1	E	1878	
1	F	1878	
2	G	2060	

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

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	FMN	G	2101	-	-	X	-
4	FMN	H	2101	-	-	X	-
4	FMN	I	2101	-	-	X	-
4	FMN	J	2101	-	-	X	-
4	FMN	K	2101	-	-	X	-
4	FMN	L	2101	-	-	X	-

2 Entry composition

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

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

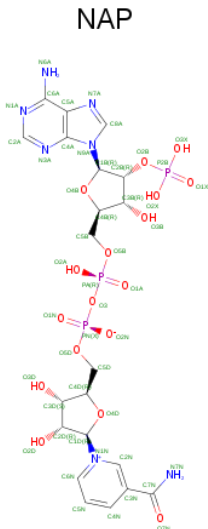
- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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.

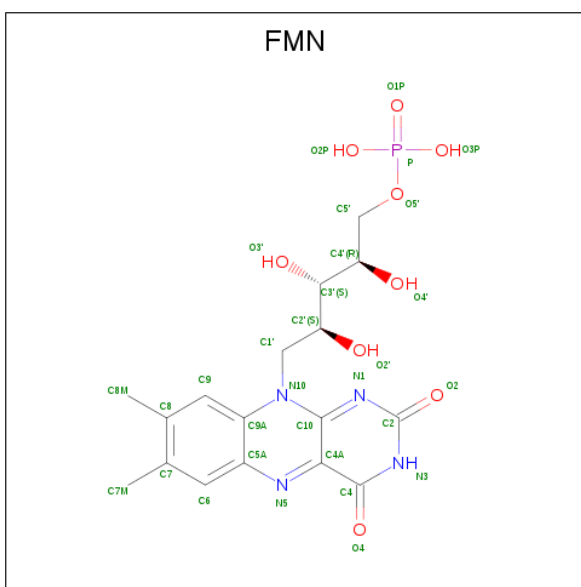
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	H	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	I	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	J	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	K	2060	Total	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 NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).



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

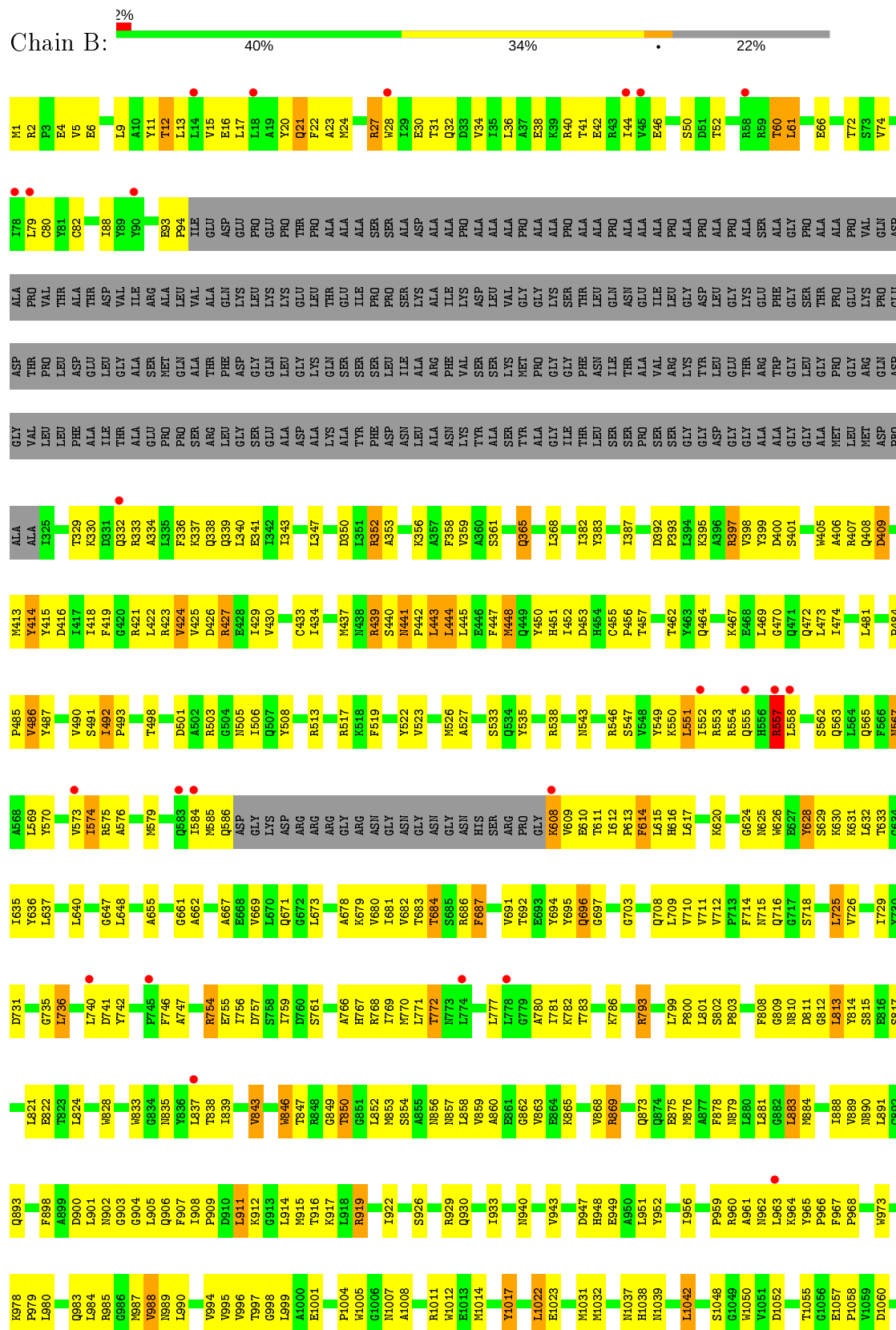
- Molecule 4 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: $C_{17}H_{21}N_4O_9P$).

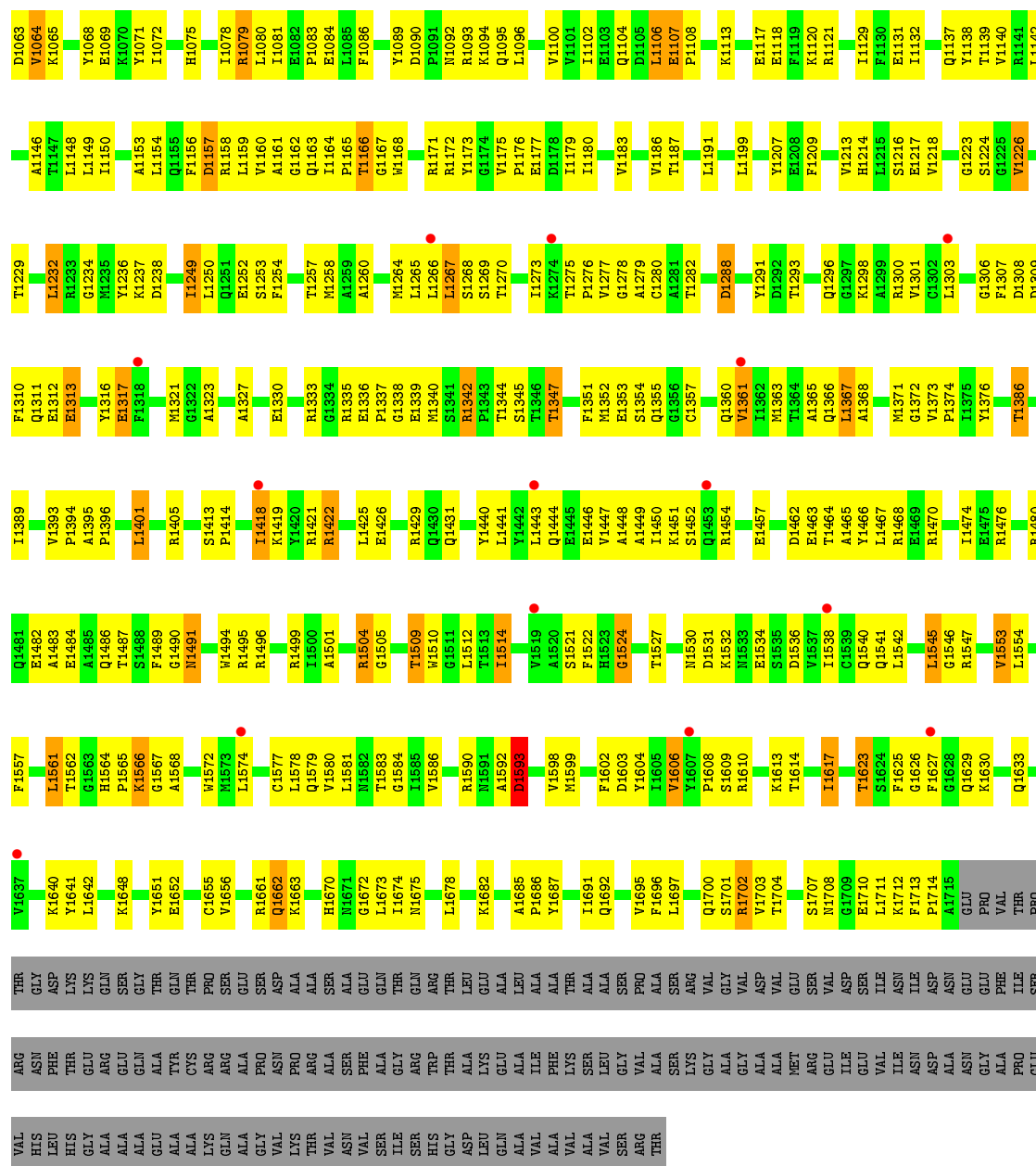


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	G	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	H	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	I	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	J	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	K	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	L	1	Total 31	C 17	N 4	O 9	P 1	0	0

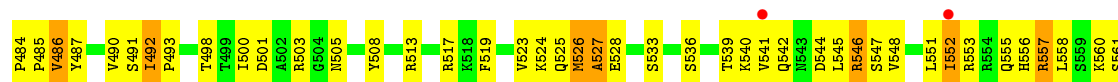


- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS





G1306	S1216	T1139	V1059	W973	G892	L821	D731	K630	F566	Y487	D416	I325	PRO
F1307	E1217	V1140	D1060	W973	Q893	E822	G735	F631	N567	V490	F417	T329	LEU
D1308	V1218	L1142	D1061	K978	F898	L824	I736	L632	A568	S491	F418	T329	PHE
D1309	G1223	A1146	D1063	K979	A899	L824	L736	T633	L569	F492	F419	T329	ALA
F1310	G1223	T1147	V1064	L980	D900	W828	L740	G634	I492	Q420	G420	D331	ILE
Q1311	G1225	L1143	K1065	Q983	N902	E831	D741	I635	Y570	R422	R422	Q332	GLY
E1312	V1226	L1149	Y1068	L984	G903	S832	Y742	Y636	L574	L422	L422	R333	ALA
E1313	T1229	I1150	E1069	R985	G904	W833	Y744	L640	R575	R423	R423	A334	GLY
Y1316				Q985	L905	S832	P745		L576	V424	V424	A334	SER
E1317	L1232	A1153	I1072	N987	G906	L837	F746	G647	A578	V425	V425	F336	PRO
A1323	R1233	L1154	H1075	Q988	F907	T838	A747	L648	N579	D501	D501	F336	GLN
A1327	G1234	Q1155	H1075	N989	L908	L839	A747		N580	A502	A502	Q338	ALA
E1330	M1235	D1157	I1078	I990	P909	L839	E751	A655	N580	R503	R503	Q339	THR
R1333	K1237	R1158	R1079	V995	L911	V843	R754	A662	Q583	N505	N505	T343	ASP
G1334	V1237	L1159	R1080	V996	L911	L844	R754	A662	I584	I506	I506	T343	GLY
R1335	V1160	V1160	L1081	T997	N915	G845	R755	A667	L351	C433	C433	D350	ALA
E1336	A1161	A1161	E1082	Q998	G916	W846	I756	V669	R352	L434	L434	R352	GLY
P1337	L1249	L1162	P1083	G998	T916	T847	D757	E668	A353	M437	M437	A353	GLN
F1338	L1250	Q1163	E1084	L999	K917	R848	S758	V669	F358	M438	M438	F358	SER
S1339	E1252	I1164	L1085	E1001	K917	G849	I759	L670	L358	R439	R439	F358	SER
E1340	P1253	P1165	F1086	E1001	L918	T850	D760	Q671	S440	S440	S440	F358	SER
M1340	F1254	T1166		P1004	R919	G851	S761	G672	N441	N441	N441	S361	ASP
M1341	G1257	G1167	Y1089	M1005	I922	L852	A766	L673	Q365	P442	P442	S361	LEU
R1342	M1258	M1168	D1090	G1006	S926	M853	R767	A678	Q365	L443	L443	Q365	ILE
P1343	A1259	D1169	P1091	M1007	S926	S854	R767	K679	Q365	L444	L444	Q365	ALA
T1344	A1260	A1170	N1092	A1008	R856	A855	R768	K679	Q365	L444	L444	Q365	ARG
S1345	M1264	R1171	R1093	A1008	N856	A855	I769	K679	Q365	L444	L444	Q365	PHE
F1346	M1267	R1172	K1094	M1011	R858	N857	M770	I681	Q365	L444	L444	Q365	VAL
T1347	L1268	L1173	Q1095	M1012	L858	N858	L771	V682	Q365	L444	L444	Q365	SER
F1351	S1269	P1175	L1096	E1013	R860	N859	I772	T683	Q365	L444	L444	Q365	ALA
M1352	T1270	E1177	L1097	M1014	E861	G862	L777	S885	Q365	L444	L444	Q365	LYS
E1353	G1271	D1178	V1100	Y1017	R941	V863	A780	T683	Q365	L444	L444	Q365	TYR
S1354	P1272	I1179	I1102	L1022	E1023	E864	I781	K687	Q365	L444	L444	Q365	ALA
Q1355	I1273	I1180	Q1104	E1023	E1023	K865	K782	F687	Q365	L444	L444	Q365	GLY
C1357	K1274	V1183	D1106	M1031	R946	V868	K786	Y694	Q365	L444	L444	Q365	ILE
Q1360	T1275	D1184	L1106	M1032	E949	R869	R786	Y695	Q365	L444	L444	Q365	THR
V1361	P1276	P1185	E1107	M1032	E949	T870	R786	Y695	Q365	L444	L444	Q365	ASN
I1362	G1278	V1186	P1108	M1037	L951	F871	R786	Y695	Q365	L444	L444	Q365	LEU
M1363	A1279	T1187	K1113	M1038	L952	S872	L799	Q708	Q365	L444	L444	Q365	SER
Q1366	C1280	L1191	E1117	M1039	R953	Q874	P800	L709	Q365	L444	L444	Q365	GLY
L1367	A1281	L1198	E1118	K1043	Y955	N876	L801	L615	Q365	L444	L444	Q365	ASP
A1368	T1282	L1199	F1119	K1043	Y956	A877	N804	V710	Q365	L444	L444	Q365	THR
M1371	D1288	L1207	K1120	S1048	P959	L881	G809	F714	Q365	L444	L444	Q365	ALA
G1372	T1293	E1208	R1121	G1049	R960	G882	N810	Q715	Q365	L444	L444	Q365	GLY
P1373	K1298	F1209	I1129	W1050	A961	L883	D811	Q716	Q365	L444	L444	Q365	LEU
A1399	A1299	F1209	F1130	V1051	N962	M884	G812	Q720	Q365	L444	L444	Q365	ALA
R1300	R1300	E1131	E1131	D1052	L963	K964	L813	Q720	Q365	L444	L444	Q365	GLY
Y1376	T1301	T1212	T1132	T1055	Y965	L888	S815	L725	Q365	L444	L444	Q365	LEU
A1380	G1302	H1214	Q1137	G1056	P966	V889	S815	V726	Q365	L444	L444	Q365	ARG
	L1303	H1214	Q1137	G1056	P967	N890	S815	V726	Q365	L444	L444	Q365	GLN
													ASP
													PRO
													ALA
													ALA

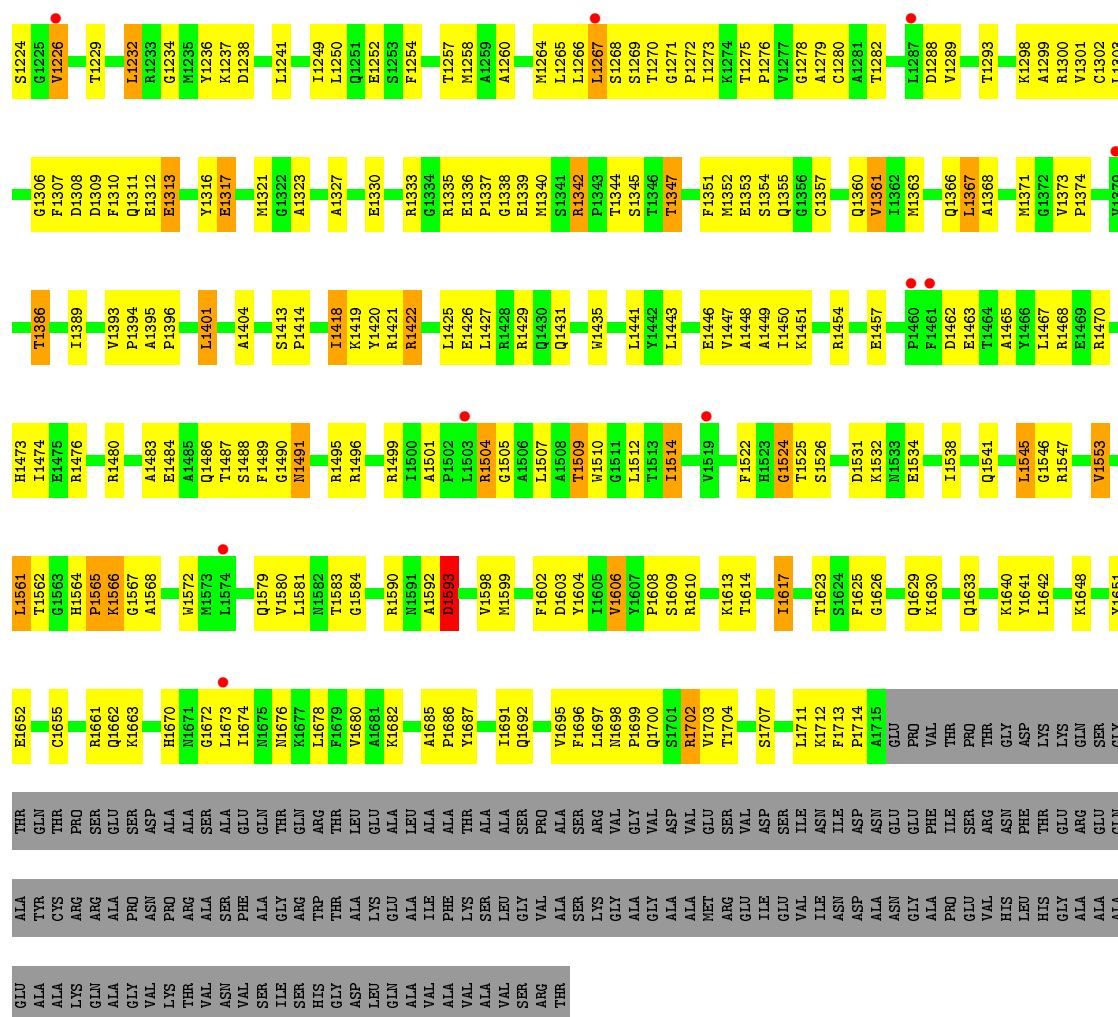


T1614	K1532	K1533	F1461	V1361	L1287	L1199	F1119	L1042	Y952	E875	S802	Q716	V628	S562
I1617	M1534	E1534	D1462	I1362	D1288	Y1207	K1120	K1043	Y956	M876	P803	Q716	S629	Q563
F1620	I1538	I1538	T1464	M1363	T1293	Y1209	R1121	S1048	F878	F877	G809	L725	R630	L564
T1623	Q1541	L1542	L1367	Q1366	Q1296	F1210	I1129	W1050	P959	L881	N810	L729	L632	F566
S1624	L1542	L1542	A1368	L1369	K1297	K1211	F1130	V1051	A961	G882	D811	Y730	T633	N567
F1625	L1546	L1546	L1467	E1370	K1299	V1212	E1131	D1052	N962	L884	Q812	D731	P635	A568
G1626	L1546	L1546	R1468	E1370	A1299	H1214	I1132	T1055	L963	M884	L814	G735	L637	L569
Q1629	R1547	R1547	R1470	V1373	C1302	S1216	Q1137	G1057	P966	A886	E816	L736	Y570	Y570
K1630	H1473	H1473	H1474	P1374	L1303	E1217	T1139	P1058	F967	P965	S817	G735	K571	K571
G1631	E1475	E1475	I1474	T1386	L1306	V1218	R1141	D1061	P968	I888	L821	L740	L640	L574
A1632	L1475	L1475	L1476	D1387	F1307	G1223	L1142	K1062	N973	V889	E822	D741	G647	R575
Q1633	I1556	I1556	I1556	K1388	D1308	S1224	A1146	D1063	N973	M890	T823	Y742	L648	A576
K1640	R1480	R1480	Q1481	I1389	D1309	G1225	T1147	V1064	N978	I888	L824	L740	T649	L577
Y1641	E1482	E1482	E1482	V1393	F1310	V1226	L1148	Y1068	P979	V889	E831	D741	L649	A578
L1642	A1483	A1483	A1483	P1394	E1312	T1229	L1149	I1072	Q983	D900	S832	Y749	T649	M579
L1646	H1564	H1564	E1484	V1394	E1313	L1232	L1153	I1075	Q983	N902	W833	E751	Q651	N580
D1647	P1565	P1565	L1401	L1401	G1314	R1233	L1154	H1075	N987	G903	L837	R754	A667	E581
K1648	G1567	G1567	T1402	T1402	S1315	G1234	Q1155	I1078	Y988	G904	L837	R754	A667	S582
A1651	A1404	A1404	T1403	T1403	E1316	V1235	F1156	R1079	N989	Q906	L838	E755	E668	L584
E1652	R1405	R1405	E1317	E1317	E1317	V1236	F1157	L1080	N989	Q906	L838	E755	E668	M585
A1653	F1489	F1489	M1321	M1321	G1322	Y1236	D1157	L1081	Q983	P907	I839	E757	L670	M579
G1654	M1573	M1573	A1322	A1322	A1322	D1238	L1159	E1081	N995	I908	V843	D758	G671	ARG
C1655	E1491	E1491	A1323	A1323	A1323	V1238	V1160	E1082	V995	P909	I844	E759	G672	ARG
F1656	F1493	F1493	A1323	A1323	A1323	D1238	A1161	E1084	V995	P909	I844	E759	G672	ARG
K1657	H1494	H1494	A1327	A1327	A1327	L1249	A1161	E1084	V995	P909	I844	E759	G672	ARG
L1658	R1495	R1495	A1327	A1327	A1327	L1250	Q1163	E1084	V995	P909	I844	E759	G672	ARG
Q1662	R1496	R1496	E1330	E1330	E1330	Q1251	Q1163	E1084	V995	P909	I844	E759	G672	ARG
K1663	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
F1669	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
H1670	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
M1671	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
G1672	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
L1673	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
L1674	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
M1675	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
K1676	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
L1678	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
K1682	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
P1686	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
I1691	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
Q1692	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
P1695	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
F1696	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
L1697	R1496	R1496	E1330	E1330	E1330	E1252	Q1163	E1084	V995	P909	I844	E759	G672	ARG
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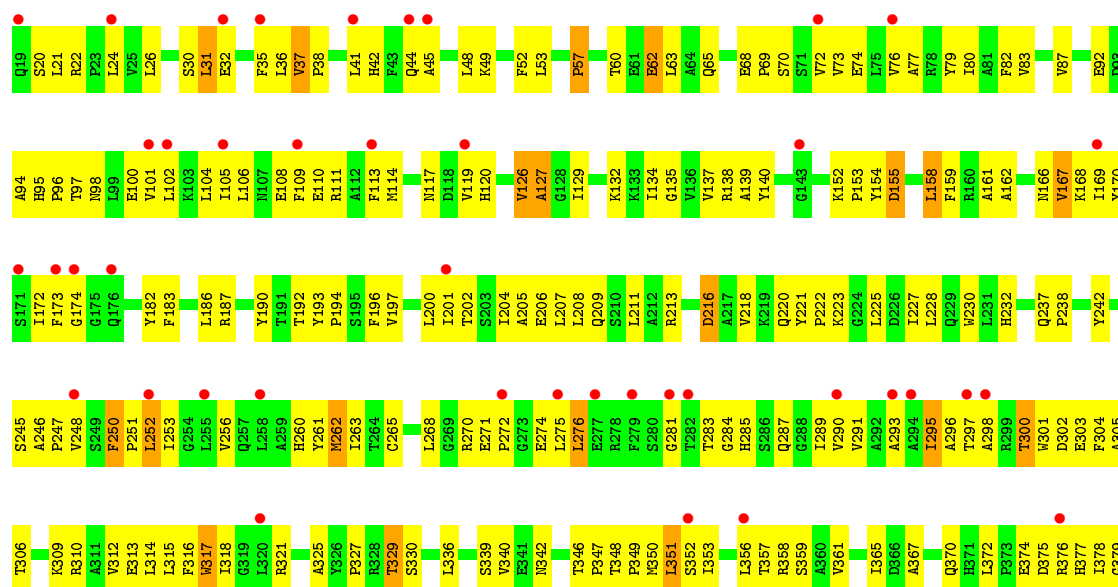


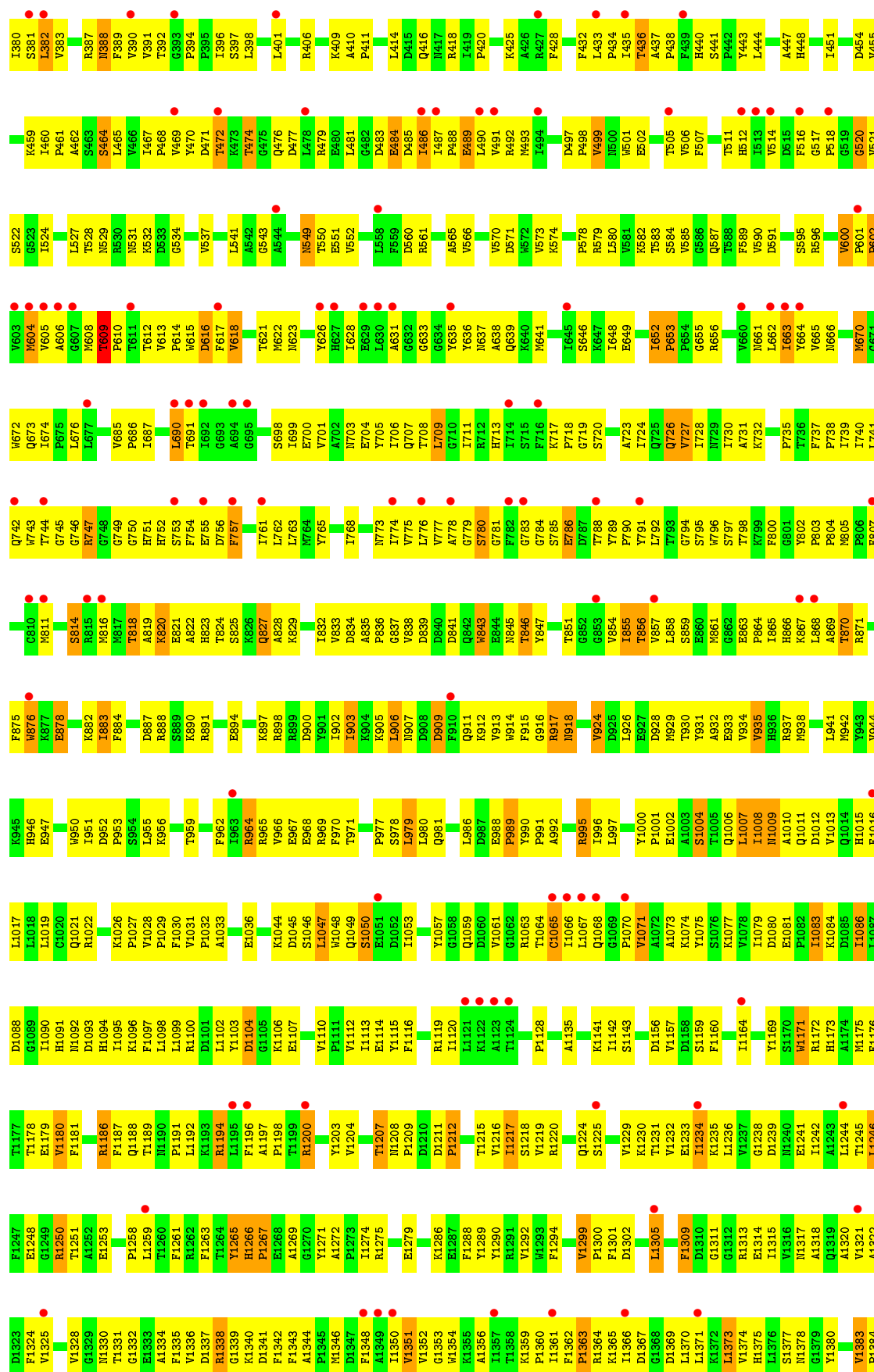


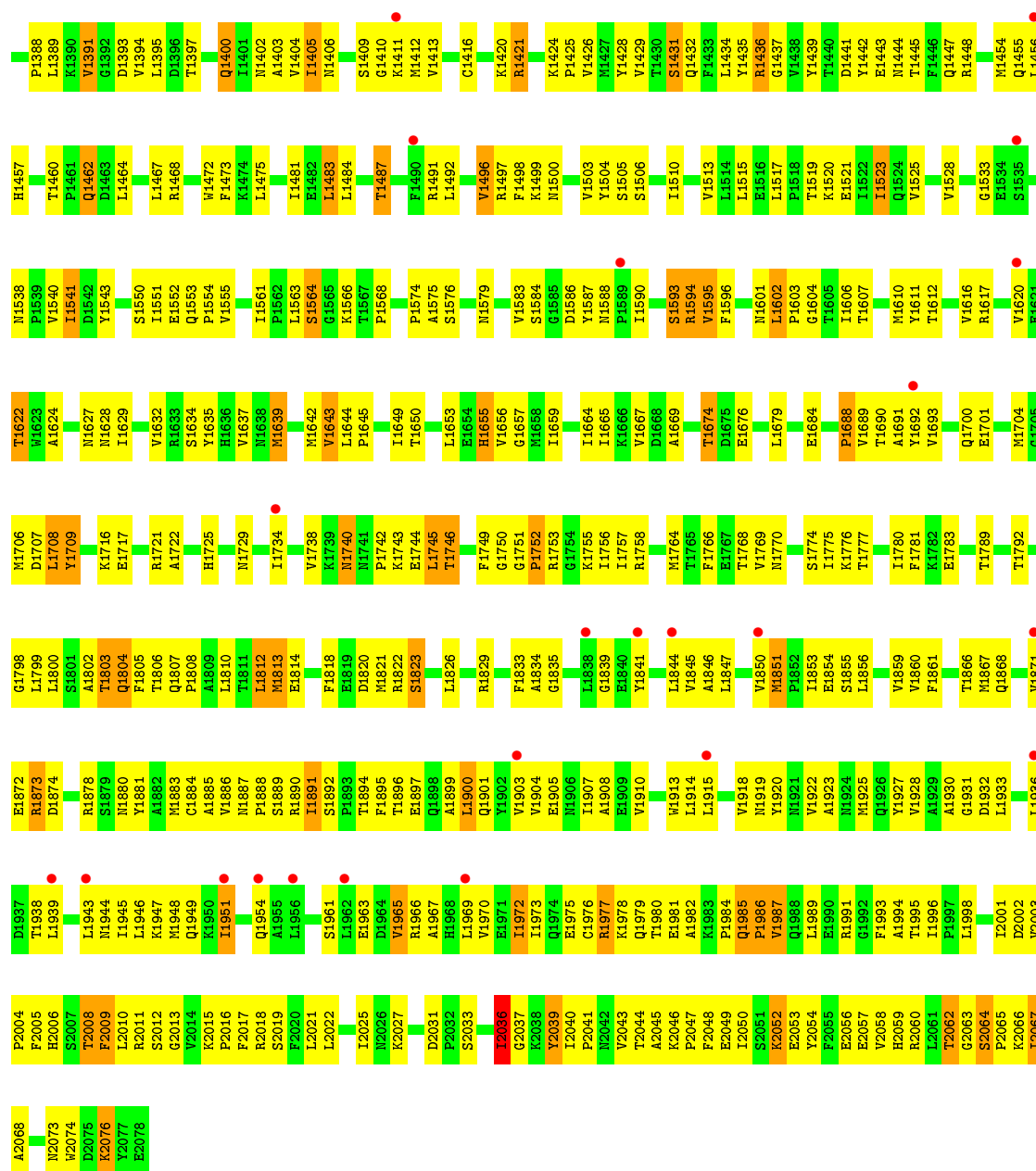


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

Chain G:



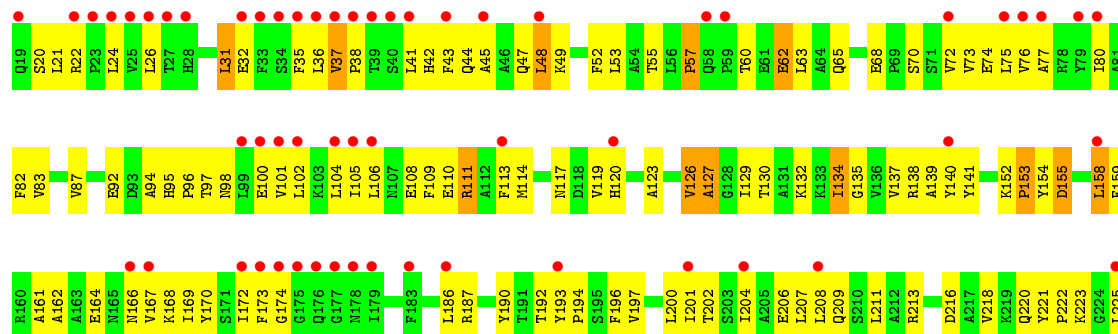


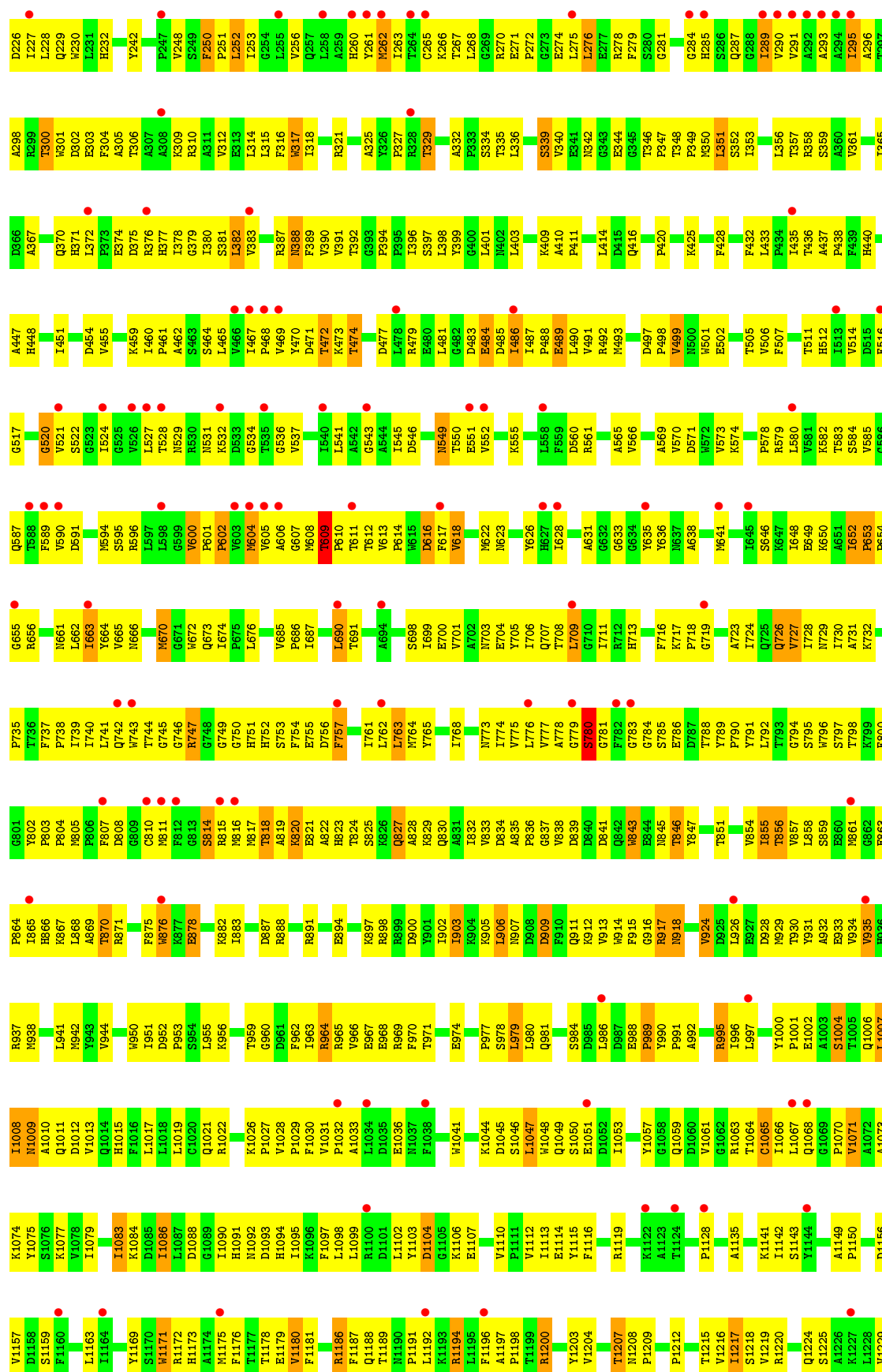


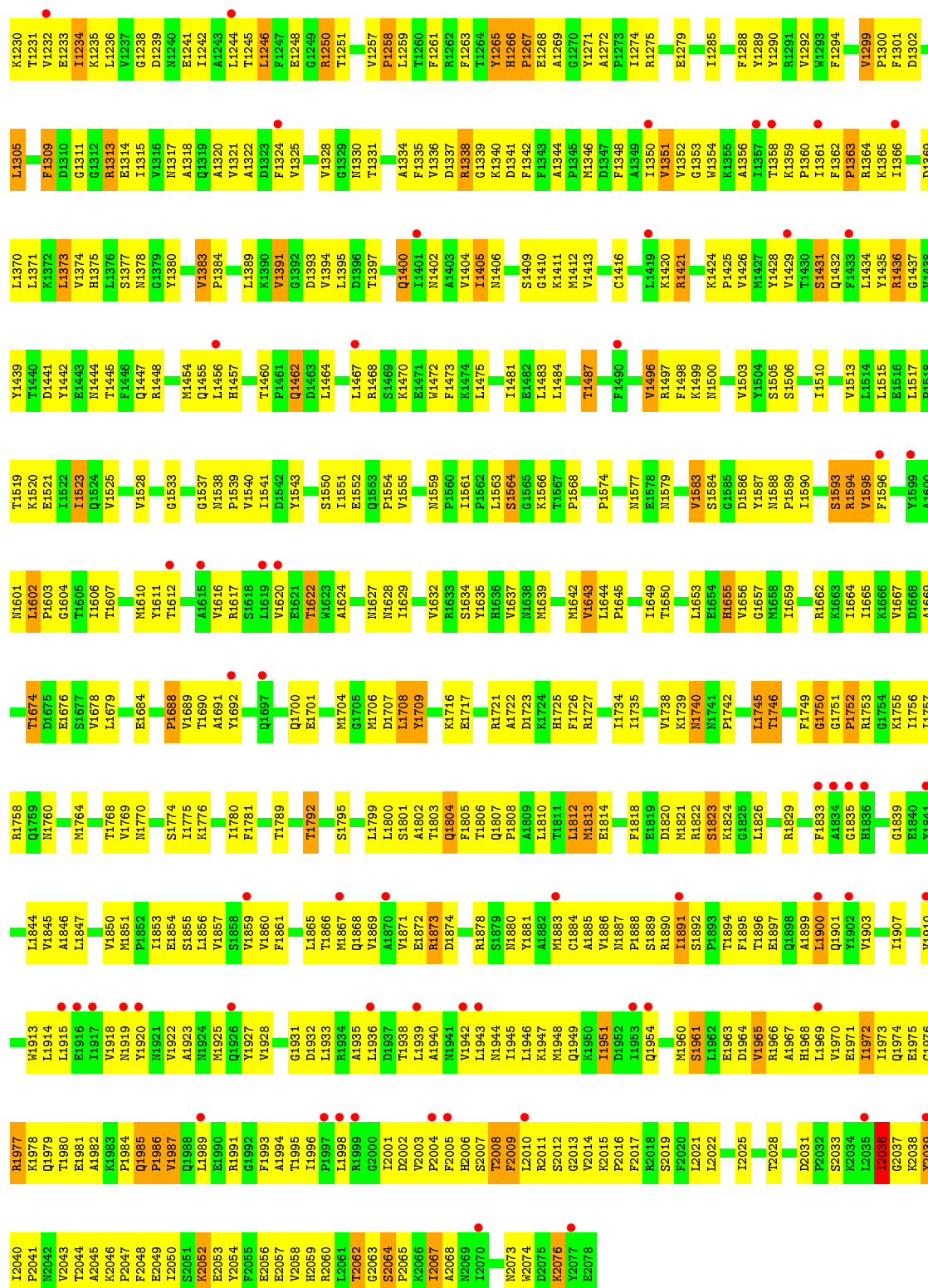
• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



Chain H:

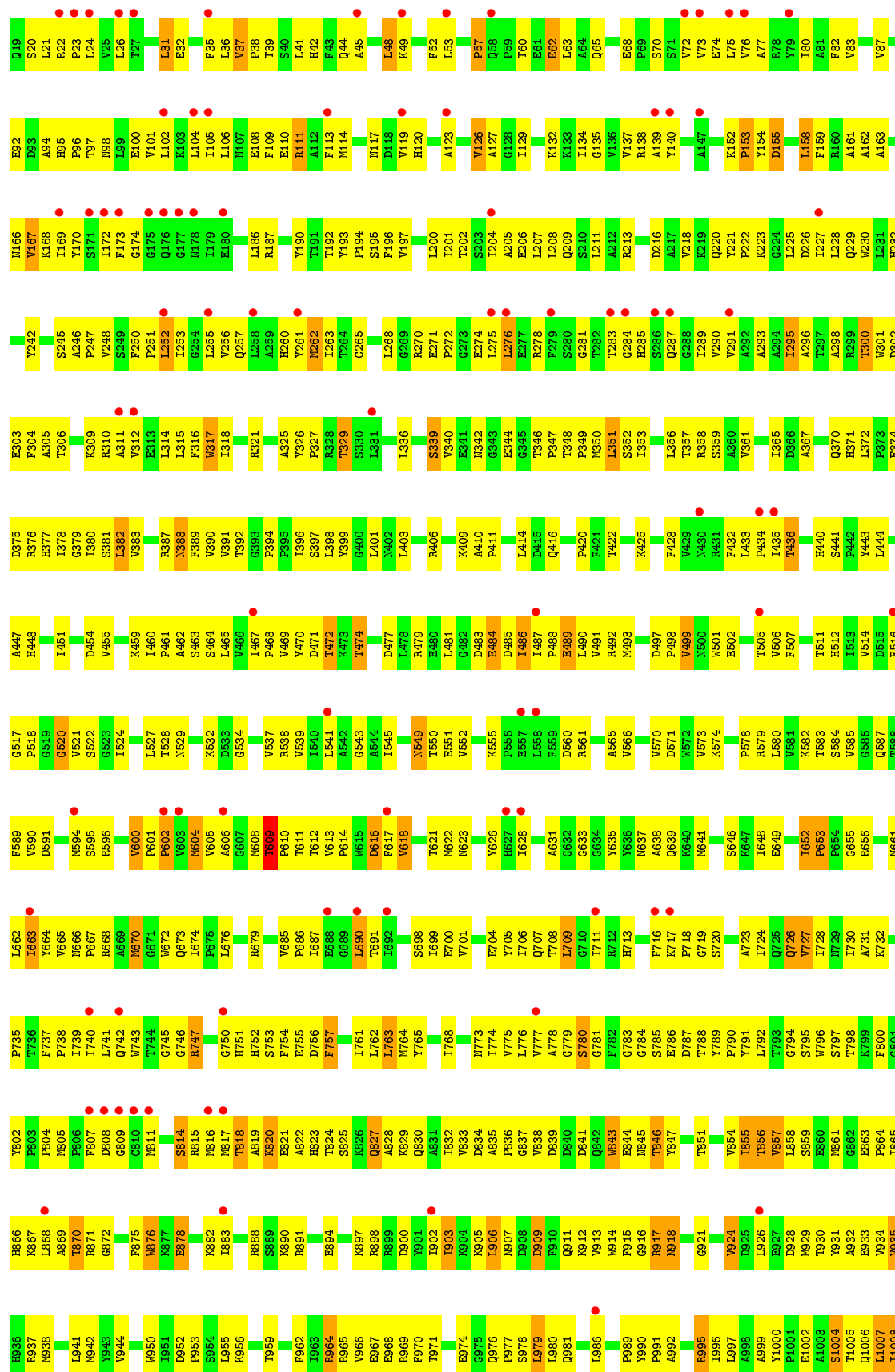




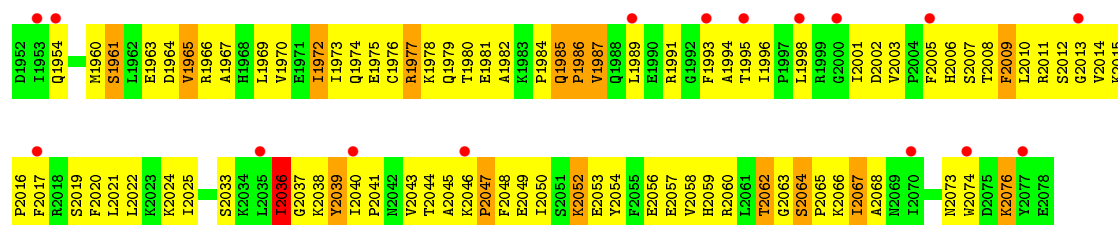


• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

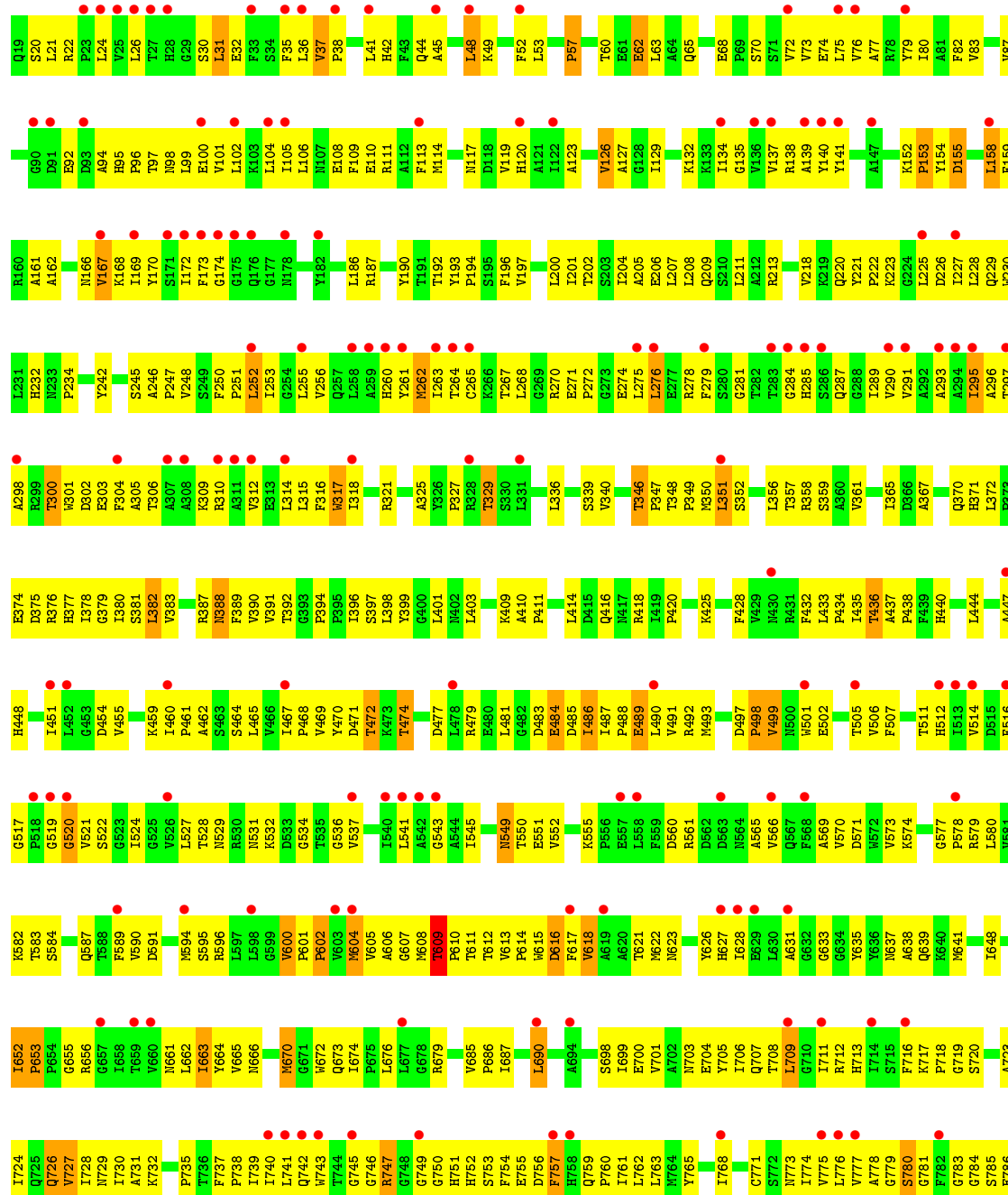




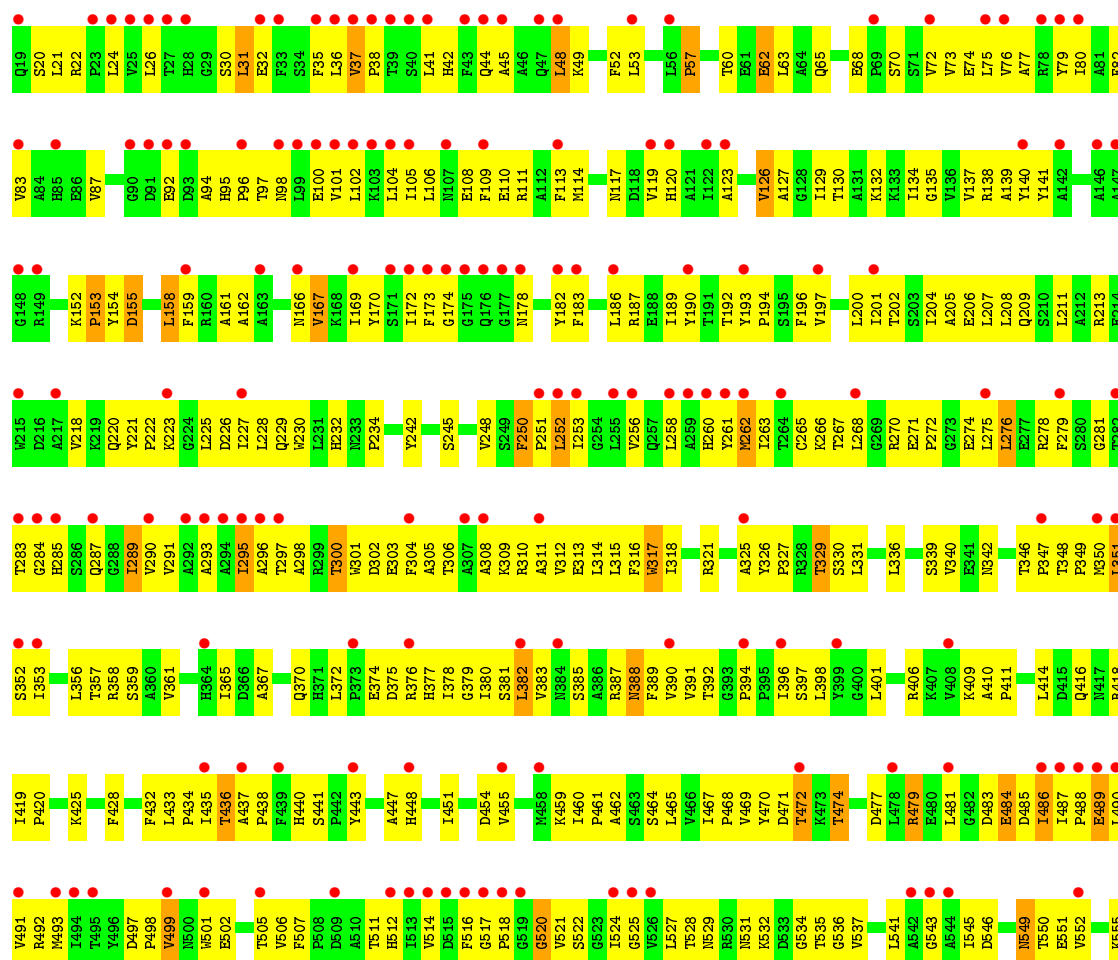
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I1891	M1821	H1748	H1658	Y1587	S1506	Q1432	K1365	D1302	V1229	D1158	V1078	A1010
	S1822	F1749	I1659	M1588	V1507	F1433	I1366	T1303	K1230	F1160	I1079	Q1011
T1894	S1823	G1750		P1589		L1434	D1367	L1305	T1231	E1081	D1080	D1012
F1895		G1751	I1664	I1590	I1510	Y1435	G1368		E1233	Q1162	V1082	V1013
T1896	L1826	P1752				R1436	D1369	F1309	E1234	L1163	H1083	Q1014
E1897		R1753	V1667	S1593	V1513	G1437	L1370	D1310	I1235	I1164	K1084	H1015
Q1898	R1829	D1754	D1666	R1594	L1514	Y1438	L1371	G1311	L1236		D1085	F1016
A1899		K1755	L1515	V1595	L1515	Y1439	G1372	G1312	L1237	Y1169	L1086	L1017
L1900	T1832	T1756		F1596	E1516	T1440	L1373	R1313	G1238	S1170	L1087	L1018
Q1901	F1833	L1757	T1674		L1517	D1441	V1374	R1312	G1237	L1170	L1086	L1019
Y1902	A1834	R1758	D1675	Y1599	P1518	E1442	H1375	E1314	D1239	W1171	D1088	G1020
V1903	G1835		E1676	A1600	P1519	E1443	L1376	L1315	N1240	H1172	G1089	Q1021
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N1905		M1762		L1602	E1521	T1446		M1317	I1242	A1174		R1023
E1906	G1839	S1763	L1678	P1603	I1522	F1446	Y1380	A1318	I1243	M1175	H1091	
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A1908	Y1941	T1765	E1684	T1605	Q1524	R1448	P1384	V1321	T1245	T1177	D1093	P1027
F1909		F1766		I1606	V1525	H1456		A1327	L1246	T1178	H1094	V1028
V1910	L1844	E1767	P1688	T1607		H1457	D1393	V1328	F1247	E1179	K1096	P1029
I1911	V1845	T1768	V1689	M1610	Y1528	M1454	P1388	D1323	E1248	V1180	F1097	F1030
G1912	A1846	V1769	T1690	Y1611	D1529	Q1455	L1389	F1324	G1249	F1181	L1098	V1031
W1913	L1847	N1770	A1691	T1612	Y1530	L1456	K1390	V1325	R1250		L1099	P1032
L1914		Y1692	Y1692				G1392	H1326	T1251	R1186	R1101	A1033
L1915	V1850	S1774	Q1700	V1616	G1533	H1457	D1393	V1328		F1187	D1102	
E1916	M1851	T1775	E1701	R1617	H1536	T1460	D1393	G1329	V1257	Q1188	L1102	E1036
I1917	P1852	K1776	Q1702	S1618	G1537	P1461	L1395	L1330	P1258	T1189	Y1103	N1037
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N1919	E1854	K1779	G1703	V1620	P1539	D1463	T1397		T1261	P1191	G1105	
Y1920	S1855	T1780	M1704	E1621	V1540	L1464		A1334	R1263	K1193	K1106	K1044
N1921	L1856	F1781	G1705	T1622	I1541	A1485	Q1400	F1335	F1263	L1195	E1107	D1045
V1922	V1857	K1782	M1706	T1623	D1542	V1466	I1401	V1336	T1264	L1196	V1110	S1046
A1923	S1858	E1783	D1707	A1624	Y1543	L1467	A1402	D1337	H1265	A1197	V1112	W1048
N1924	V1859	T1789	Y1709			S1469	A1403	R1338	P1267	T1198	I1113	Q1049
Q1925	F1860						I1405	G1339	E1263	T1199	E1114	S1050
Y1926				M1628	S1550		M1406	D1341	A1269	R1200		D1052
I1927	K1716	T1792	K1716	I1629	I1551	W1472		F1342	G1270	Y1203	F1116	I1083
V1928	E1717	Y1793	E1717		E1552	F1473	S1409	F1343	A1272	V1204	I1120	Y1057
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N1930	M1866	S1795	R1721	S1633	P1554	L1475	K1411	P1345	P1273	I1206	K1122	Q1059
Q1931	Q1868		A1722	S1634	V1555		M1412	M1346	I1274	T1207	A1123	D1060
D1932	V1869			V1635		I1481	V1413	D1347	R1275	M1208	T1124	V1061
L1933	H1725	H1836	H1725	H1637	I1561	E1482	F1414	F1348	E1279	P1209	D1125	G1062
R1934	F1726	S1801	R1726	V1637	P1562	E1483	E1414	I1350		P1212	E1127	R1063
A1935	E1872	A1802	E1728	M1638	L1563	L1483	E1415	A1349		T1215	P1128	T1064
L1936	N1728	T1803	N1728	M1639	S1564	L1484	C1416	I1350		T1216	D1129	G1065
D1937	Q1804	Q1804	Y1730	M1642	K1565	T1487	G1417	V1351	I1285	T1217	L1130	L1066
T1938	F1805	F1805	G1731	V1643	K1566	L1488	T1418	V1352	K1286	S1218	A1135	Q1067
L1939	T1806	T1806	F1731	L1644	T1567	V1489	L1419	G1353	E1287	V1219	G1069	
	Q1807	Q1807	F1732	P1645	P1568	F1490	K1420	K1354	Y1288	S1219	V1070	V1071
	P1808	P1808	S1733	M1646			R1421	K1355	Y1290	R1220	K1141	A1072
	I1734	I1734	I1735		L1571	V1496	K1424	I1357	R1291	Q1224	I1142	A1073
				I1649	P1574	R1497	F1426	K1358	V1292	S1225	S1143	K1074
	T1738	T1811		T1650		F1498	V1425	K1359	H1293	Y1144		Y1075
	K1739	M1813		L1653	M1579	K1499	H1427	P1360	F1294			
	N1740	E1814		E1654		N1500	L1428	F1361				
				H1655	Y1583		V1429	F1362	V1299	K1227		
					S1584	Y1503	T1430	P1363	P1300			S1076
					G1585	Y1504						

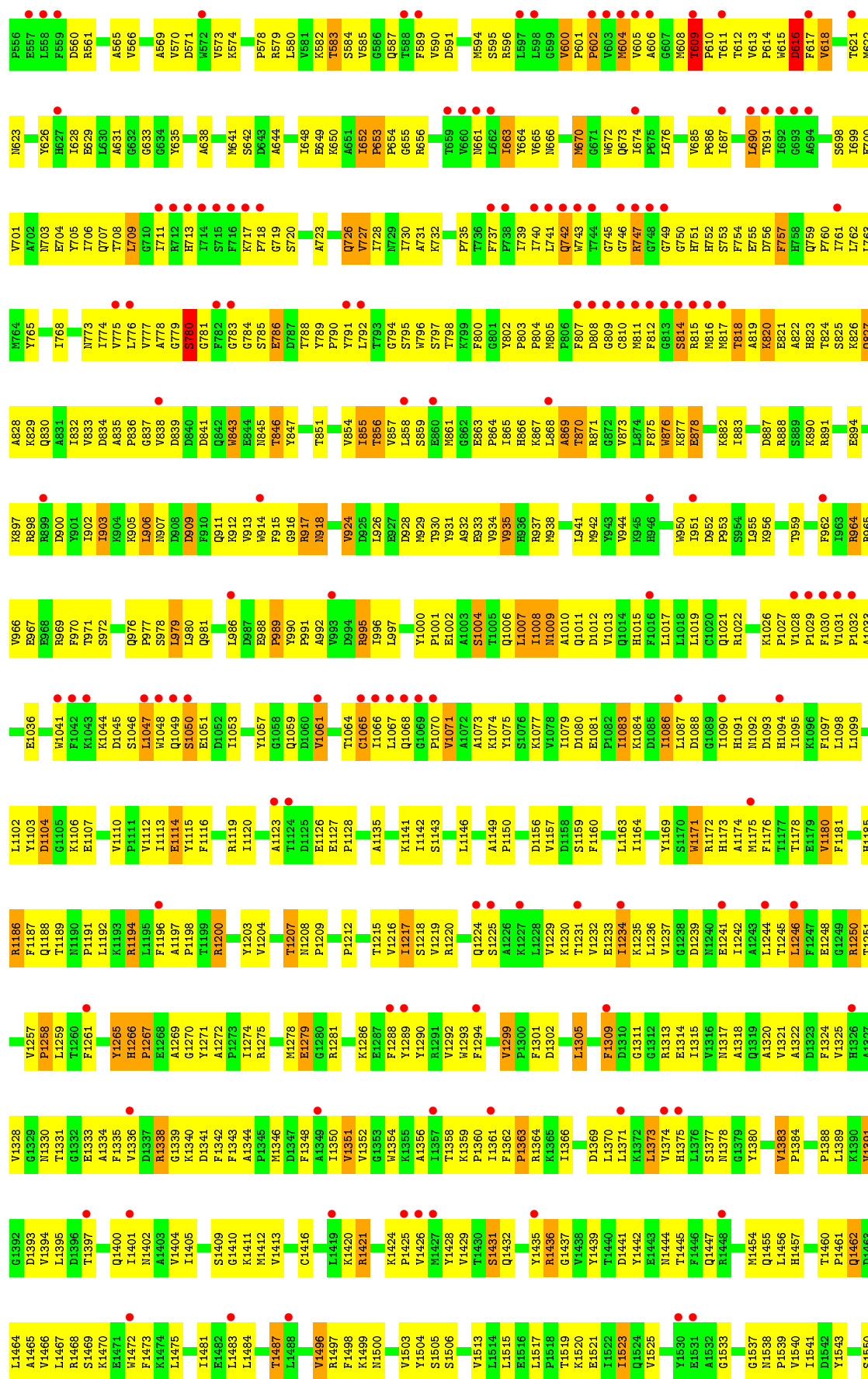


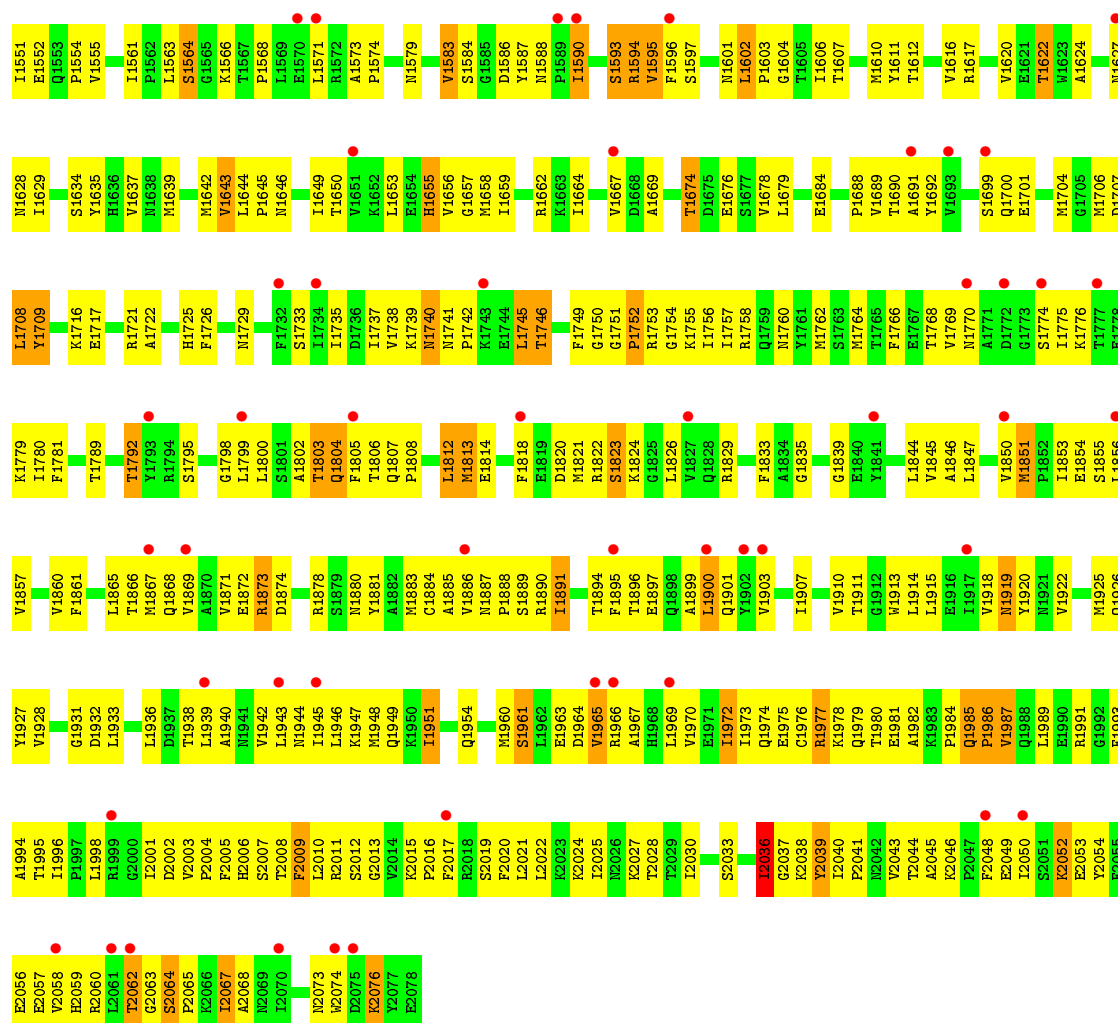
● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



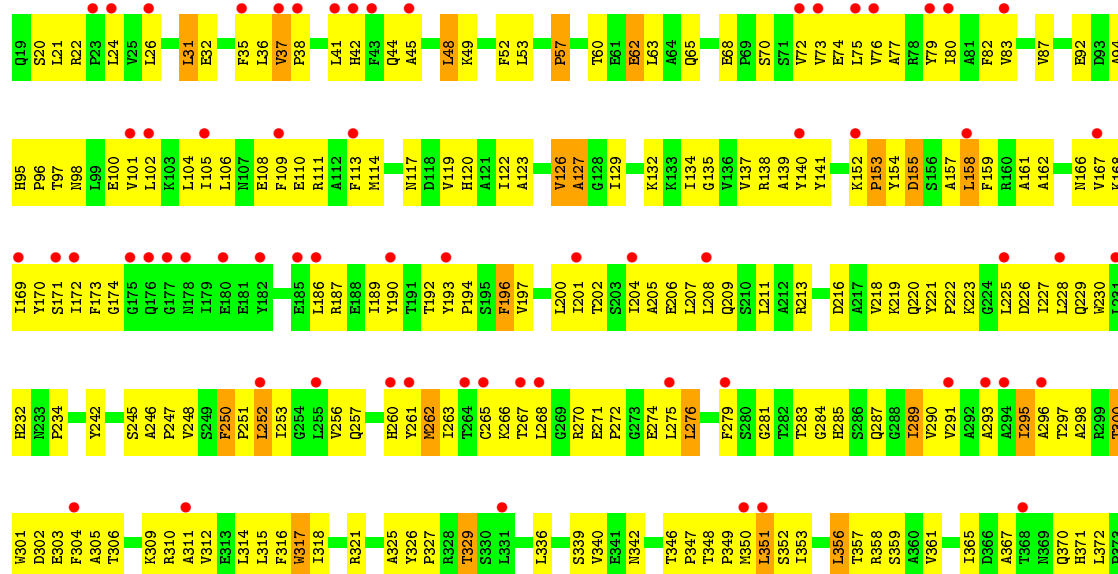
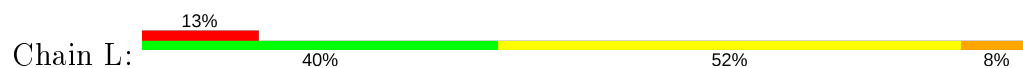
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P1645	E1654	N1579	V1496	R1421	V1361	R1281	P1209	E1126	G1062	L997	T855	T788
M1646	H1655	N1579	R1497	K1424	G1352	I1285	P1212	I1127	R1063	Y1000	T856	Y789
I1649	S1656	N1579	F1498	P1425	K1354	Y1288	P1212	P1128	G1065	E1002	L857	P790
T1650	G1657	N1579	K1499	P1426	K1355	Y1289	T1215	L1133	C1065	A1003	D828	L792
L1653	D1658	N1579	M1500	H1427	A1356	Y1290	V1216	T1134	L1066	S1004	S859	T793
E1654	Y1587	N1579	V1503	V1428	T1357	Y1291	I1217	A1135	L1067	T930	E860	G794
H1655	S1583	N1579	S1504	V1429	T1358	Y1292	S1218	L1134	Q1069	Y931	T861	S795
V1656	S1584	N1579	S1505	S1430	K1359	Y1293	P1219	K1141	P1070	T1005	G862	S796
G1657	D1586	N1579	S1506	S1431	P1360	Y1294	R1220	I1142	Q1006	L1006	E863	S797
M1658	Y1587	N1579	V1507	D1432	I1361	F1294	R1220	S1143	Q1007	Y934	P864	T798
I1659	N1588	N1579	V1507	F1433	I1362		Q1224	Y1144	A1073	M1009	T865	T799
L1664	S1589	N1579	T1510	L1434	P1363	K1297	S1225	R1145	K1074	A1010	H866	F800
V1667	P1589	N1579	V1513	Y1435	K1364	E1298	V1229	L1146	S1075	Q1011	K867	G801
D1668	G1593	N1579	L1514	R1436	K1365	E1299	K1230	L1156	S1076	D1012	L868	Y802
A1669	R1594	N1579	L1515	G1437	K1366	P1300	T1231	D1157	V1014	Y938	A869	P803
I1674	S1595	N1579	L1516	V1438	I1367	F1301	V1232	V1157	H1015	Y943	T870	P804
T1675	F1596	N1579	P1518	Y1439	D1369	D1302	E1233	D1158	Q1080	T944	R871	M805
E1676	Y1599	N1579	T1519	D1441	L1370	L1305	E1234	S1159	D1080	Y944	G872	P806
S1677	G1603	N1579	K1520	Y1442	K1372	F1309	K1235	F1160	P1082	L1018	H874	F807
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L1679	Q1524	N1579	E1522	T1445	H1375	G1311	L1236	I1164	K1084	Q1020	H876	G810
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M1704	V1622	N1579	V1525	K1470	T1397	V1328	V1257	R1186	L1099	M1037	K897	K826
G1705	H1623	N1579	V1525	S1469	T1397	G1329	P1258	F1187	R1100	F1038	Q827	Q827
M1706	A1624	N1579	V1525	E1471	Q1400	N1330	T1260	Q1188	F970	E1039	A828	A828
H1707	N1628	N1579	V1525	F1472	I1401	D1330	T1261	T1189	Y1103	Y1040	D900	K829
L1708	I1629	N1579	V1525	K1473	N1402	V1336	T1264	P1191	D1104	F1042	Y901	Q830
Y1709	I1629	N1579	V1525	L1474	N1403	D1337	T1264	L1192	E1107	K1043	I903	I832
K1716	V1632	N1579	V1525	L1475	A1404	H1338	H1266	K1193	P1111	D1045	R904	V833
E1717	R1633	N1579	V1525	H1479	I1405	R1339	F1267	L1195	S978	S1046	K905	D854
S1634	S1634	N1579	V1525	D1480	N1406	K1340	E1269	F1196	I1113	W1048	N907	P836
Y1721	Y1635	N1579	V1525	I1481	G1410	D1341	G1270	A1197	Y1115	Q1049	D908	G837
A1722	H1636	N1579	V1525	K1482	K1411	F1342	A1272	P1198	F1116	S1050	F910	D841
H1725	P1637	N1579	V1525	L1483	M1412	F1343	A1272	T1199	D1052	E1051	Q911	Q842
M1730	M1639	N1579	V1525	L1484	V1413	A1345	I1274	G1200	I1053	I1053	Y913	V844
Y1731	M1642	N1579	V1525	T1487	G1416	M1346	A1275	M1202	L1120	Y1057	Y914	N845
G1731	V1643	N1579	V1525	R1491	G1416	F1348	M1278	Y1203	K1122	G1058	T846	T846
		N1579	V1525				E1279	V1204	A1123	Q1059	Y847	Y847
		N1579	V1525					T1207	T1124	D1060	N918	T851







● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



F1288	F1289	Y1290	Y1291	F1292	Y1293	F1294	V1216	I1217	S1218	V1219	R1220	Q1224	S1225	A1226	K1227	F1228	V1229	K1230	T1231	V1232	E1233	K1234	I1235	G1236	V1237	G1238	D1239	S1240	E1241	I1242	A1243	L1244	T1245	F1246	E1247	G1248	G1249	T1250	T1251	V1257	P1258	L1259	T1260	R1261	K1262	T1263	T1264	Y1265	H1266	P1267	A1268	G1269	Y1270	Y1271	A1272	P1273	V1274	R1275	N1276	N1277	N1278	E1279	R1280	R1281	K1359
K1141	I1142	S1143	V1144	L1145	L1146	D1156	V1157	D1158	S1159	F1160	M1161	T1164	M1167	S1168	Y1169	S1170	M1171	R1172	R1173	A1174	M1175	F1176	T1177	T1178	V1180	F1181	R1186	F1187	T1188	N1190	P1191	L1192	K1193	R1194	F1196	A1197	F1198	T1199	R1200	G1201	M1202	Y1203	V1204	E1205	V1206	T1207	N1208	P1209	P1210	T1211	T1215														
A1073	K1074	Y1075	S1076	K1077	Y1078	I1079	D1080	E1081	P1082	I1083	K1084	D1085	I1086	L1087	G1088	I1089	H1091	D1093	H1094	I1095	K1096	F1097	L1098	L1099	Y1103	D1104	G1105	D1106	S1107	V1110	P1111	Y1112	I1113	Y1115	F1116	R1119	I1120	L1121	K1122	A1123	T1124	D1125	E1126	P1127	D1128	T1129	N1130	L1133	T1134	A1135															
I1008	M1009	A1010	Q1011	D1012	Y1013	Q1014	H1015	L1016	L1017	L1018	L1019	C1020	Q1021	R1022	R1023	K1026	P1027	V1028	P1029	F1030	V1031	P1032	A1033	E1036	W1041	K1043	D1044	S1046	L1047	W1048	Q1049	S1050	E1051	D1052	E1054	A1055	V1056	Y1057	G1058	Q1059	V1061	G1062	R1063	T1064	C1065	I1066	L1067	Q1068	G1069	P1070	V1071	A1072													
R937	M938	L941	S1076	N942	Y943	Y944	R945	R946	E947	W950	L951	D952	P953	L955	K956	T959	F962	L963	R964	R965	V966	E967	E968	R969	F970	T971	E974	P977	S978	L979	L980	Q981	L986	D987	E988	P989	Y990	P991	A992	R995	L996	L997	Y1000	P1001	T930	L858	S859	S860	R861	G862	V935	R936													
H802	F803	R804	M805	R806	F807	D808	G809	C810	M811	F812	G813	S814	R815	M816	M817	T818	A819	R820	S821	A822	H823	T824	S825	K826	Q827	A828	R829	Q830	L831	L832	R833	D834	F836	G837	V838	D839	D840	D841	Q842	W843	E844	I845	T846	Y847	T851	R854	L855	R856	Y857	G794	S795	W796	A731	S797	T798	R799	F800	G801							
L662	I663	Y664	M665	N666	P667	R668	A669	M670	G671	W672	Q673	F674	P675	L676	L677	V685	P686	I687	L690	S698	V699	L761	L762	L763	M764	Y765	I768	N773	I774	W775	L776	L777	G710	I711	F712	H713	F716	K717	P718	G719	S720	A723	I724	Q725	Q726	V727	I728	N729	I652	K582	W583	S584	Q587	T588	R589	F737									
V590	D591	M594	S595	R596	L597	L598	G599	P601	W600	P602	P603	M604	V605	D533	A606	G607	M608	T609	P610	T611	T612	V613	P614	W615	D616	V617	V618	T621	M622	N623	Y626	I628	E629	L630	A631	G632	G633	Y635	A638	M641	S646	I648	E649	I652	A731	K732	G655	R656	N661																
H448	T451	V455	K459	L460	P461	A462	S463	S464	L465	V466	I467	S468	V390	V391	T392	G393	Y470	D471	T472	T473	T474	T475	Q476	D477	L478	R479	S480	L481	G482	D483	E484	L485	T486	P488	E489	L490	V491	R492	M493	D497	V498	W500	V501	E502	T505	V506	F507	P508	T511	H512	V513	V514	F516												
G517	P518	G519	S520	V521	S522	G523	S524	L527	W528	P529	N530	N531	K532	V533	A534	G535	N549	V552	V553	L540	L541	A542	G543	N549	V552	V553	T557	L558	P559	D560	R561	V566	Q567	F568	A569	V570	D571	W572	V573	K574	P578	R579	L580	V581	K582	P583	W583	S584	Q587	T588	F589														
L662	I663	Y664	M665	N666	P667	R668	A669	M670	G671	W672	Q673	F674	P675	L676	L677	V685	P686	I687	L690	S698	V699	L761	L762	L763	M764	Y765	I768	N773	I774	W775	L776	L777	G710	I711	F712	H713	F716	K717	P718	G719	S720	A723	I724	Q725	Q726	V727	I728	N729	I652	K582	W583	S584	Q587	T588	R589	F737									
P738	I739	L740	L741	L742	W743	T744	G745	G746	R747	G748	G749	G750	H751	H752	F753	F754	E755	F756	V757	L758	P759	P760	P761	L762	L763	M764	Y765	I768	N773	I774	W775	L776	L777	G710	I711	F712	H713	F716	K717	P718	G719	S720	A723	I724	Q725	Q726	V727	I728	N729	I652	K582	W583	S584	Q587	T588	R589	F737								
Y802	F803	R804	M805	R806	F807	D808	G809	C810	M811	F812	G813	S814	R815	M816	M817	T818	A819	R820	S821	A822	H823	T824	S825	K826	Q827	A828	R829	Q830	L831	L832	R833	D834	F836	G837	V838	D839	D840	D841	Q842	W843	E844	I845	T846	Y847	T851	R854	L855	R856	Y857	G794	S795	W796	A731	S797	T798	R799	F800	G801							
H866	K867	L868	A869	T870	R871	F875	W876	K877	E878	L879	K882	L883	R888	S889	K890	R891	E894	K897	R898	R899	D900	Y901	L902	L903	R904	K905	L906	N907	D908	L909	F910	Q911	Q912	Y913	N914	G915	G916	R917	R918	Y924	D925	L926	E927	D928	N929	P1001	T930	L858	S859	S860	R861	G862	V935	R936											
R937	M938	L941	S1076	N942	Y943	Y944	R945	R946	E947	W950	L951	D952	P953	L955	K956	T959	F962	L963	R964	R965	V966	E967	E968	R969	F970	T971	E974	P977	S978	L979	L980	Q981	L986	D987	E988	P989	Y990	P991	A992	R995	L996	L997	Y1000	P1001	T930	L858	S859	S860	R861	G862	V935	R936													
I1008	M1009	A1010	Q1011	D1012	Y1013	Q1014	H1015	L1016	L1017	L1018	L1019	C1020	Q1021	R1022	R1023	K1026	P1027	V1028	P1029	F1030	V1031	P1032	A1033	E1036	W1041	K1043	D1044	S1046	L1047	W1048	Q1049	S1050	E1051	D1052	E1054	A1055	V1056	Y1057	G1058	Q1059	V1061	G1062	R1063	T1064	C1065	I1066	L1067	Q1068	G1069	P1070	V1071	A1072													
A1073	K1074	Y1075	S1076	K1077	Y1078	I1079	D1080	E1081	P1082	I1083	K1084	D1085	I1086	L1087	G1088	I1089	H1091	D1093	H1094	I1095	K1096	F1097	L1098	L1099	Y1103	D1104	G1105	D1106	S1107	V1110	P1111	Y1112	I1113	Y1115	F1116	R1119	I1120	L1121	K1122	A1123	T1124	D1125	E1126	P1127	D1128	T1129	N1130	L1133	T1134	A1135															
K1141	I1142	S1143	V1144	L1145	L1146	D1156	V1157	D1158	S1159	F1160	M1161	T1164	M1167	S1168	Y1169	S1170	M1171	R1172	R1173	A1174	M1175	F1176	T1177	T1178	V1180	F1181	R1186	F1187	T1188	N1190	P1191	L1192	K1193	R1194	F1196	A1197	F1198	T1199	R1200	G1201	M1202	Y1203	V1204	E1205	V1206	T1207	N1208	P1209	P1210	T1211	T1215														
V1216	I1217	S1218	V1219	R1220	Q1224	S1225	A1226	K1227	F1228	V1229	K1230	T1231	V1232	E1233	K1234	I1235	G1236	V1237	G1238	D1239	S1240	E1241	I1242	A1243	L1244	T1245	F1246	E1247	G1248	G1249	T1250	T1251	V1257	P1258	L1259	T1260	R1261	K1262	T1263	T1264	Y1265	H1266	P1267	A1268	G1269	Y1270	Y1271	A1272	P1273	V1274	R1275	M1276	E1279	R1280	R1281	K1359									
F1288	Y1289	Y1290	Y1291	F1292	Y1293	F1294	V1216	I1217	S1218	V1219	R1220	Q1224	S1225	A1226	K1227	F1228	V1229	K1230	T1231	V1232	E1233	K1234	I1235	G1236	V1237	G1238	D1239	S1240	E1241	I1242	A1243	L1244	T1245	F1246	E1247	G1248	G1249	T1250	T1251	V1257	P1258	L1259	T1260	R1261	K1262	T1263	T1264	Y1265	H1266	P1267	A1268	G1269	Y1270	Y1271	A1272	P1273	V1274	R1275	M1276	E1279	R1280	R1281	K1359		
F1324	V1325	H1326	T1331	A1334	F1335	V1336	D1337	R1338	G1339	K1340	F1342	F1343	A1344	P1345	M1346	D1347	F1348	A1349	I1350	V1351	V1352	G1353	V1354	K1355	A1356	I1357	T1358	K1359																																					

K2066	V2003	T1938	D1874	T1806	I1734	T1650	V1583	Y1504	V1429	P1360
	P2004	L1939	R1878	P1807	I1735	L1653	S1584	S1505	T1430	F1362
A2068	F2005	A1940	H1879	P1808		L1654	G1585	S1506	S1431	
K2069	E2006	H1941	S1879	A1809	V1738	H1654	D1586	V1507	Q1432	P1363
	S2007	V1942	H1880	L1810	V1739	H1655	Y1587	Q1508	F1433	
I2070	T2008	L1943	Y1881	T1811	M1740	V1656	M1588	T1509	L1434	K1365
K2073	F2009	M1944	A1882	L1812	M1741	G1657	P1589	L1510	L1436	
	L2010	L1945	L1883	M1813	P1742	M1658	H1590		R1436	
D2075	K2011	L1946	C1884	E1814	K1743	L1659	H1591	V1513	G1437	
K2076	S2012	K1947	A1885		E1744		V1592	L1514	V1438	
	G2013	M1948	L1886	F1818	L1745	R1662	S1593	L1515	L1370	
Y2077	V2014	Q1949	V1887	E1819	T1746	K1663	R1594	L1516	L1371	
E2078	K2015	R1950	P1888	D1820		L1664	V1595	E1517	T1440	
	P2016	L1951	S1889	M1821	F1749	V1667	F1596	P1518	V1439	
	F2017	D1952	R1890	R1822	G1750	D1668	S1597	T1519	V1442	
	R2018	L1953		E1814	G1751	D1669	S1598	K1520	E1443	
	S2019	Q1954	I1891	K1824	P1752	A1669	V1599	E1521	N1444	
F2020			T1894	G1825	R1753		A1600	I1522	F1446	
	L2021	M1960	F1895	L1826	G1754	T1674	M1601	I1523	Q1447	
L2022	S1961	L1962	T1896	R1829	K1755	D1675	L1602	Q1524	R1448	
	E1963	L1962	E1897		L1829	S1677	P1603	V1525		
I2025	K2026	E1963	Q1898	F1833	I1757	S1677	G1604	V1528	Q1455	
N2026		D1964	A1899	A1834	R1758	V1678	T1605	D1529	L1456	
K2027	V1965	R1965	L1900	E1835	Q1759	L1679	L1606	Y1530	H1457	
	R1966	A1967	Q1901	H1836	M1760	Q1680	T1607			
	H1968	L1968	V1902		V1761	E1684	M1610	G1533	T1460	
L2030		L1969	V1904	G1839	S1763		V1611		P1461	
S2033	K2034	V1970	E1905	L1840	M1764	P1688	T1612	G1537	Q1462	
L2035		E1971	H1906	Y1841	T1765	V1689	M1538	D1537	D1463	
K2036	T2037	L1972	I1907	S1842	F1766	T1690	P1539	V1540	L1464	
	Q2038	R1973	A1908	A1843	E1767	A1691	R1617	I1541	A1465	
E2039	K2038	Q1974	E1909	L1844	T1768	V1692	S1618	D1396	V1466	
	Y2039	E1975	L1910	V1845	V1769	V1693	L1619	E1542	L1467	
L2040	C1976	C1976	V1910	A1846	M1770	F1694	M1620	Y1543	R1468	
P2041	R1977		M1913	L1847			E1621	T1398	A1399	
H2042	K1978	L1914	L1913	L1848	S1774	Q1700	T1622	S1550	Q1400	
	Q2043	Q1979	L1915	D1849	E1701	E1701	V1623	L1472	L1401	
T2044	T1980	E1916	L1916	V1850	K1776		E1552	F1473	N1402	
A2045	A1981	L1917	M1851	M1851		M1704	Q1553	K1474	A1403	
K2046	A1982	V1918	P1852	P1852	K1779	G1705	M1627	L1475	V1404	
P2047	K1983	L1919	L1853	L1853	L1780	M1706	N1628	V1555	I1405	
F2048	P1984	V1920	E1854	E1854	F1781	D1707	I1629		N1406	
E2049	Q1985	M1921	S1855	K1782	E1783	L1708	V1632	P1560	E1482	
T2050	P1986	L1922	L1856	L1856	E1783	Y1709	R1633	P1562	L1484	
S2051	V1987	A1923	V1857	V1857		K1716	Y1635	L1563	K1411	
K2052	Q1988	H1924	S1858	S1858	T1789	E1717	H1636	S1564	T1487	
E2053	L1989	M1925	V1859	V1859			V1637	G1565	L1488	
T2054	E1990	Q1926	H1860	F1861	T1792	R1721	M1638	K1566		
F2055	R1991	V1927	F1861		S1795	A1722	V1638	T1567	R1491	
E2056	G1992	V1928			D1723	K1724	M1639	P1568	L1492	
Q2057	F1993	A1930	L1865	T1866	G1798	H1725	M1642		V1496	
V2058	A1994	L1930	L1866	M1867	L1799	H1726	V1643	P1574	R1497	
E2059	T1995	D1932	Q1868	Q1868	L1800	R1727	L1644	N1577	F1498	
K2060	L1996	V1932	V1869	V1869	S1801	E1728	P1645	E1578	K1424	
L2061	P1997	R1933	A1870	A1870	A1802	E1728	N1646	N1579	V1426	
T2062	L1998	R1934	V1871	V1871	T1803	N1729		Y1580	M1500	
G2063		A1935	L1936	L1936	Q1804	Y1730				
S2064	T2001	E1937	E1872	E1872	F1805		L1640		V1503	
E2065	P2002	K1937	R1872	R1872	S1905					

4 Data and refinement statistics

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

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.40% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

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

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

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

There are no bond length outliers.

All (7) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (2) planarity outliers are listed below:

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

5.2 Too-close contacts ⓘ

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

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

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

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 35.

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:397:ARG:HG2	1:E:397:ARG:HH11	1.15	1.09
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.28	1.09
1:C:1278:GLY:H	1:C:1282:THR:HG22	1.11	1.08
1:A:1268:SER:HB3	1:E:1389:ILE:HG13	1.35	1.08
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.68	1.08
1:F:397:ARG:HG2	1:F:397:ARG:HH11	1.16	1.08
1:F:1278:GLY:H	1:F:1282:THR:HG22	1.15	1.08
1:D:1443:LEU:HD21	1:D:1470:ARG:HB3	1.16	1.08
1:C:397:ARG:HH11	1:C:397:ARG:HG2	1.14	1.08
2:H:374:GLU:HA	2:H:377:HIS:CD2	1.89	1.07
1:B:427:ARG:HH12	1:B:492:ILE:HG23	1.18	1.07
1:B:1342:ARG:NH1	1:B:1347:THR:HB	1.69	1.07
2:I:610:PRO:HD2	4:I:2101:FMN:H6	1.35	1.07
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.68	1.06
2:K:1594:ARG:HG2	2:K:1594:ARG:HH11	1.18	1.06
2:G:511:THR:HG22	2:G:512:HIS:CD2	1.89	1.06
2:K:1194:ARG:HG3	2:K:1194:ARG:HH11	0.90	1.06
1:F:427:ARG:HH12	1:F:492:ILE:HG23	1.15	1.06
2:H:846:THR:HG21	2:H:866:HIS:CD2	1.90	1.06
2:K:846:THR:HG21	2:K:866:HIS:CD2	1.90	1.06
2:L:374:GLU:HA	2:L:377:HIS:CD2	1.90	1.06
1:C:1504:ARG:HH11	1:C:1504:ARG:HG3	0.99	1.06
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.89	1.06
1:A:397:ARG:HH11	1:A:397:ARG:HG2	1.16	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.91	1.06
1:E:1342:ARG:NH1	1:E:1347:THR:HB	1.71	1.05
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.91	1.05
2:I:374:GLU:HA	2:I:377:HIS:CD2	1.90	1.05
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.69	1.05
1:E:965:TYR:CZ	1:E:1199:LEU:HD22	1.91	1.05
2:I:1194:ARG:HG3	2:I:1194:ARG:HH11	0.94	1.05
1:E:557:ARG:HH11	1:E:557:ARG:HG3	1.19	1.05
2:J:1194:ARG:HH11	2:J:1194:ARG:HG3	0.89	1.05
2:J:374:GLU:HA	2:J:377:HIS:CD2	1.92	1.05
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.71	1.05
1:B:1278:GLY:H	1:B:1282:THR:HG22	1.15	1.05
2:L:846:THR:HG21	2:L:866:HIS:CD2	1.92	1.05
1:C:365:GLN:HG3	1:D:365:GLN:HG3	1.36	1.05
2:K:610:PRO:HD2	4:K:2101:FMN:H6	1.36	1.04
2:L:1194:ARG:HG3	2:L:1194:ARG:HH11	0.93	1.04
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1594:ARG:HH11	2:G:1594:ARG:HG2	1.15	1.04
2:H:610:PRO:HD2	4:H:2101:FMN:H6	1.36	1.04
2:G:846:THR:HG21	2:G:866:HIS:CD2	1.92	1.04
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.93	1.04
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.69	1.04
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.91	1.04
2:H:1194:ARG:HH11	2:H:1194:ARG:HG3	0.93	1.04
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.39	1.04
1:C:1702:ARG:HH11	1:C:1702:ARG:CG	1.70	1.03
2:J:610:PRO:HD2	4:J:2101:FMN:H6	1.36	1.03
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.72	1.03
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.21	1.03
1:B:1702:ARG:CG	1:B:1702:ARG:HH11	1.69	1.03
2:L:610:PRO:HD2	4:L:2101:FMN:H6	1.35	1.03
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.39	1.03
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.73	1.03
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.58	1.03
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.73	1.02
1:D:1278:GLY:H	1:D:1282:THR:HG22	1.23	1.02
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.38	1.02
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.19	1.02
2:J:846:THR:HG21	2:J:866:HIS:CD2	1.94	1.02
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.93	1.02
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.19	1.02
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.21	1.02
2:J:1194:ARG:NH1	2:J:1194:ARG:HG3	1.68	1.02
2:I:846:THR:HG21	2:I:866:HIS:CD2	1.94	1.02
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.72	1.01
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.17	1.01
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.42	1.01
1:F:427:ARG:HG3	1:F:427:ARG:HH11	1.21	1.01
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.24	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:HH11	0.89	1.01
2:L:917:ARG:HH11	2:L:917:ARG:CG	1.74	1.01
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.75	1.01
1:F:1079:ARG:HH11	1:F:1079:ARG:HG2	1.26	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:NH1	1.67	1.01
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.76	1.01
2:K:1200:ARG:H	2:K:1200:ARG:HD3	1.25	1.01
1:B:427:ARG:HH11	1:B:427:ARG:HG3	1.23	1.01
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.42	1.01

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:663:ILE:HD12	2:L:663:ILE:H	1.51	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.68	0.74
2:I:855:ILE:HD13	2:I:856:THR:H	1.52	0.74
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.20	0.74
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.68	0.74
1:A:1617:ILE:H	1:A:1617:ILE:HD13	1.53	0.74
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.86	0.74
2:G:265:CYS:SG	2:G:275:LEU:HD12	2.28	0.74
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.18	0.74
2:K:1499:LYS:HG3	2:K:1500:ASN:H	1.53	0.74
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.51	0.74
1:A:560:LYS:O	1:A:564:LEU:HB2	1.87	0.74
1:B:365:GLN:HG3	1:E:365:GLN:CG	2.17	0.74
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.70	0.74
1:E:1052:ASP:OD2	1:E:1055:THR:HG22	1.88	0.74
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.70	0.74
2:I:610:PRO:HG3	2:I:1047:LEU:HD22	1.69	0.74
2:G:1442:TYR:O	2:G:1445:THR:HG22	1.88	0.74
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.68	0.74
2:K:1468:ARG:HH12	2:K:1475:LEU:HB2	1.52	0.74
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.69	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.69	0.74
1:C:528:GLU:O	1:C:611:THR:HG21	1.88	0.74
1:D:524:LYS:HB3	1:D:528:GLU:OE2	1.88	0.74
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.70	0.74
2:G:506:VAL:O	2:G:506:VAL:HG12	1.86	0.74
2:J:1420:LYS:HG2	2:J:1425:PRO:HA	1.69	0.74
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.70	0.74
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.02	0.74
1:C:767:HIS:HE1	1:D:767:HIS:CE1	2.05	0.74
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.74
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.68	0.74
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.01	0.74
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.70	0.74
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.69	0.74
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1985:GLN:O	2:G:1987:VAL:N	2.19	0.73
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.23	0.73
2:H:1746:THR:HB	2:H:1792:THR:HG23	1.69	0.73
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.68	0.73
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:LYS:O	1:B:610:GLU:HG2	1.88	0.73
2:G:622:MET:SD	2:G:652:ILE:HD11	2.28	0.73
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.69	0.73
2:K:1803:THR:HA	2:K:1806:THR:HB	1.69	0.73
2:K:718:PRO:CG	2:K:727:VAL:HG21	2.18	0.73
2:L:336:LEU:O	2:L:340:VAL:HG23	1.89	0.73
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.23	0.73
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.89	0.73
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.52	0.73
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.69	0.73
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.23	0.73
2:I:1891:ILE:HD11	2:I:1943:LEU:HB3	1.69	0.73
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.69	0.73
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.68	0.73
2:K:440:HIS:HD2	2:K:497:ASP:O	1.70	0.73
2:L:1706:MET:O	2:L:1709:TYR:HB3	1.88	0.73
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.89	0.73
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.69	0.73
1:C:616:HIS:HA	1:C:633:THR:HG23	1.69	0.73
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.70	0.73
2:G:1706:MET:O	2:G:1709:TYR:HB3	1.88	0.73
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.22	0.73
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.73
2:H:1499:LYS:HG3	2:H:1500:ASN:H	1.53	0.73
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.53	0.73
1:F:1279:ALA:O	1:F:1282:THR:HG23	1.88	0.73
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.68	0.73
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.24	0.73
2:L:595:SER:HB3	2:L:602:PRO:CG	2.15	0.73
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.04	0.73
1:A:1504:ARG:NH1	1:A:1504:ARG:CG	2.45	0.73
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.69	0.73
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.70	0.73
2:G:420:PRO:HG3	2:G:847:TYR:HD1	1.53	0.73
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.24	0.73
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.52	0.73
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.52	0.73
2:J:2037:GLY:HA2	2:J:2048:PHE:O	1.88	0.73
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.24	0.73
1:B:1052:ASP:OD2	1:B:1055:THR:HG22	1.89	0.73
1:B:423:ARG:O	1:B:429:ILE:HD11	1.88	0.73

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.72	0.72
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.69	0.72
2:G:289:ILE:HG12	2:G:493:MET:HE1	1.71	0.72
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.71	0.72
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.72	0.72
2:L:358:ARG:HH21	2:L:383:VAL:HG21	1.54	0.72
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.71	0.72
1:E:539:THR:O	1:E:542:GLN:HG2	1.90	0.72
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.19	0.72
2:H:327:PRO:CD	2:I:1338:ARG:HH21	2.02	0.72
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.70	0.72
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.25	0.72
2:K:914:TRP:NE1	2:K:916:GLY:HA3	2.05	0.72
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.24	0.72
1:A:617:LEU:N	1:A:617:LEU:HD23	2.05	0.71
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.70	0.71
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.04	0.71
2:G:289:ILE:HG23	2:G:490:LEU:HD22	1.72	0.71
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.70	0.71
2:I:493:MET:HA	2:I:497:ASP:HB2	1.71	0.71
2:J:1891:ILE:HD11	2:J:1943:LEU:HB3	1.72	0.71
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.24	0.71
2:L:506:VAL:O	2:L:506:VAL:HG12	1.90	0.71
1:B:427:ARG:NH1	1:B:492:ILE:HG23	1.99	0.71
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.72	0.71
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.72	0.71
1:A:365:GLN:CG	1:F:365:GLN:HG3	2.19	0.71
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.55	0.71
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.71	0.71
2:J:1194:ARG:HH11	2:J:1194:ARG:CG	1.82	0.71
2:J:663:ILE:H	2:J:663:ILE:HD12	1.56	0.71
2:K:2036:ILE:HG22	2:K:2037:GLY:N	2.05	0.71
2:L:448:HIS:CD2	2:L:491:VAL:HG12	2.26	0.71
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.73	0.71
1:C:535:TYR:CD1	1:C:610:GLU:N	2.58	0.71
1:D:632:LEU:HA	1:D:635:ILE:HG22	1.71	0.71
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.24	0.71
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.25	0.71
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.72	0.71
2:I:1706:MET:O	2:I:1709:TYR:HB3	1.89	0.71
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.72	0.71
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.25	0.71
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.53	0.71
1:A:964:LYS:O	1:A:966:PRO:HD3	1.91	0.71
1:D:560:LYS:O	1:D:564:LEU:HB2	1.89	0.71
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.71	0.71
1:D:964:LYS:O	1:D:966:PRO:HD3	1.89	0.71
1:B:365:GLN:CG	1:E:365:GLN:HG3	2.18	0.71
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.24	0.71
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.73	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.06	0.71
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.06	0.71
2:I:336:LEU:O	2:I:340:VAL:HG23	1.91	0.71
2:J:327:PRO:CD	2:K:1338:ARG:HH21	2.04	0.71
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.25	0.71
2:J:779:GLY:O	2:J:780:SER:HB2	1.90	0.71
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.05	0.71
1:E:955:VAL:HG11	2:K:964:ARG:HE	1.54	0.71
2:J:1340:LYS:CG	2:L:376:ARG:NH2	2.53	0.71
2:L:917:ARG:HG2	2:L:937:ARG:NH1	2.06	0.71
1:B:961:ALA:CB	1:B:1022:LEU:HD12	2.20	0.71
1:F:632:LEU:HA	1:F:635:ILE:HG22	1.73	0.71
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.25	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:H	1.54	0.71
2:I:506:VAL:HG12	2:I:506:VAL:O	1.90	0.71
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.25	0.71
2:K:656:ARG:HH11	2:K:656:ARG:HG2	1.55	0.71
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.24	0.71
1:A:339:GLN:O	1:A:343:ILE:HG13	1.90	0.71
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	2.02	0.71
1:C:538:ARG:HA	1:C:585:MET:HE1	1.73	0.71
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.90	0.71
2:G:2036:ILE:HG22	2:G:2037:GLY:N	2.05	0.71
2:H:1420:LYS:HG2	2:H:1425:PRO:HA	1.72	0.71
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.24	0.71
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.55	0.71
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.24	0.71
2:J:1074:LYS:HE3	2:J:1075:TYR:HE1	1.56	0.71
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.91	0.71
2:K:448:HIS:CD2	2:K:491:VAL:HG12	2.26	0.71
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1803:THR:HA	2:L:1806:THR:HB	1.71	0.71
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.73	0.71
1:A:859:VAL:HG12	1:A:863:VAL:HG23	1.72	0.71
1:A:978:LYS:HB3	1:A:979:PRO:HD3	1.71	0.71
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.72	0.71
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.73	0.71
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.55	0.71
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.53	0.71
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.90	0.71
1:C:1270:THR:HA	1:F:1386:THR:O	1.90	0.71
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.20	0.71
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.26	0.71
2:H:1610:MET:HA	2:H:1610:MET:HE2	1.70	0.71
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.72	0.71
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.06	0.71
2:L:930:THR:HG22	2:L:933:GLU:CG	2.20	0.71
1:A:423:ARG:O	1:A:429:ILE:HD11	1.91	0.71
1:D:616:HIS:HA	1:D:633:THR:HG23	1.70	0.71
1:E:423:ARG:O	1:E:429:ILE:HD11	1.90	0.71
1:F:427:ARG:NH1	1:F:492:ILE:HG23	1.98	0.71
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.25	0.71
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.72	0.71
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.26	0.71
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.55	0.71
2:K:942:MET:CE	2:K:955:LEU:HB3	2.20	0.71
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.06	0.71
2:L:1891:ILE:HD11	2:L:1943:LEU:HB3	1.72	0.71
1:C:1104:GLN:OE1	1:F:1107:GLU:HB2	1.91	0.71
1:B:1386:THR:O	1:D:1270:THR:HA	1.90	0.71
1:F:1443:LEU:CD2	1:F:1470:ARG:HB3	2.11	0.71
2:H:461:PRO:HA	2:H:484:GLU:O	1.90	0.71
2:H:779:GLY:O	2:H:780:SER:HB2	1.90	0.71
2:J:1370:LEU:HD12	2:J:1373:LEU:HD13	1.73	0.71
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.73	0.71
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.71	0.71
2:H:2037:GLY:HA2	2:H:2048:PHE:O	1.91	0.71
2:H:358:ARG:NH2	2:H:383:VAL:HG21	2.05	0.71
2:H:917:ARG:HG2	2:H:937:ARG:NH1	2.06	0.71
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.73	0.71
2:I:472:THR:H	2:I:493:MET:HE3	1.55	0.71
2:K:1348:PHE:O	2:K:1351:VAL:HG12	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:162:ALA:HA	2:K:167:VAL:HG22	1.73	0.71
2:L:1074:LYS:HE3	2:L:1075:TYR:HE1	1.55	0.71
2:L:1420:LYS:HG2	2:L:1425:PRO:HA	1.71	0.71
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.90	0.70
1:E:424:VAL:HG13	1:E:469:LEU:HD11	1.71	0.70
2:G:1232:VAL:HG12	2:G:1246:LEU:HD23	1.73	0.70
2:G:447:ALA:O	2:G:451:ILE:HG13	1.91	0.70
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.73	0.70
2:H:1706:MET:O	2:H:1709:TYR:HB3	1.91	0.70
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.25	0.70
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.73	0.70
2:L:489:GLU:HA	2:L:492:ARG:NH1	2.04	0.70
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.56	0.70
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.26	0.70
2:H:48:LEU:CD1	2:H:101:VAL:HG11	2.21	0.70
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.90	0.70
2:H:930:THR:HG23	2:H:933:GLU:H	1.55	0.70
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.73	0.70
2:J:48:LEU:CD1	2:J:101:VAL:HG11	2.21	0.70
2:K:1074:LYS:HE3	2:K:1075:TYR:HE1	1.56	0.70
2:K:358:ARG:HB2	2:K:389:PHE:CZ	2.26	0.70
2:L:610:PRO:CD	4:L:2101:FMN:H6	2.17	0.70
1:A:616:HIS:HA	1:A:633:THR:HG23	1.72	0.70
1:D:1342:ARG:HB2	1:D:1345:SER:HB2	1.74	0.70
1:E:1617:ILE:N	1:E:1617:ILE:HD13	2.06	0.70
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.73	0.70
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.56	0.70
2:I:1612:THR:O	2:I:1616:VAL:HG12	1.91	0.70
2:I:289:ILE:HG23	2:I:490:LEU:HD22	1.73	0.70
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.73	0.70
2:J:709:LEU:HD23	2:J:709:LEU:H	1.55	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.71	0.70
2:L:779:GLY:O	2:L:780:SER:HB2	1.89	0.70
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.92	0.70
1:A:1342:ARG:HH12	1:A:1347:THR:HB	1.55	0.70
1:A:541:VAL:O	1:A:545:LEU:HG	1.91	0.70
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.91	0.70
1:B:501:ASP:HB3	1:B:505:ASN:HB2	1.74	0.70
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.04	0.70
2:J:1803:THR:HA	2:J:1806:THR:HB	1.73	0.70

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.04	0.69
1:B:1267:LEU:HD11	1:B:1303:LEU:HD12	1.75	0.69
1:F:501:ASP:HB3	1:F:505:ASN:HB2	1.75	0.69
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.72	0.69
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.69
2:G:779:GLY:O	2:G:780:SER:HB2	1.91	0.69
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.06	0.69
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	2.07	0.69
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.73	0.69
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.74	0.69
2:L:207:LEU:O	2:L:211:LEU:HG	1.92	0.69
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.06	0.69
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.07	0.69
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.58	0.69
2:G:747:ARG:HH11	2:G:780:SER:HB3	1.56	0.69
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.73	0.69
2:H:1891:ILE:HD11	2:H:1943:LEU:HB3	1.73	0.69
2:H:358:ARG:HB2	2:H:389:PHE:CZ	2.28	0.69
2:H:489:GLU:HA	2:H:492:ARG:NH1	2.07	0.69
2:I:117:ASN:HA	2:I:561:ARG:HG3	1.74	0.69
2:K:207:LEU:O	2:K:211:LEU:HG	1.92	0.69
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.22	0.69
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.22	0.69
2:L:1084:LYS:O	2:L:1088:ASP:HB2	1.93	0.69
2:L:1985:GLN:O	2:L:1987:VAL:N	2.22	0.69
2:L:2037:GLY:HA2	2:L:2048:PHE:O	1.91	0.69
1:A:1279:ALA:O	1:A:1282:THR:HG23	1.92	0.69
1:C:553:ARG:HH22	1:C:563:GLN:HB3	1.56	0.69
1:C:767:HIS:CE1	1:D:767:HIS:CE1	2.80	0.69
1:E:1672:GLY:HA3	1:E:1678:LEU:CD2	2.21	0.69
1:E:859:VAL:HG12	1:E:863:VAL:HG23	1.73	0.69
1:F:859:VAL:HG12	1:F:863:VAL:HG23	1.75	0.69
2:G:2037:GLY:HA2	2:G:2048:PHE:O	1.93	0.69
2:G:48:LEU:CD1	2:G:101:VAL:HG11	2.23	0.69
2:H:207:LEU:O	2:H:211:LEU:HG	1.93	0.69
2:H:741:LEU:HG	2:H:741:LEU:O	1.91	0.69
2:I:595:SER:HB3	2:I:602:PRO:CG	2.21	0.69
2:I:917:ARG:HD3	2:I:937:ARG:NH2	2.08	0.69
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.75	0.69
2:J:610:PRO:CD	4:J:2101:FMN:H6	2.17	0.69
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1384:PRO:HB3	2:K:1829:ARG:NH1	2.08	0.69
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.28	0.69
2:K:950:TRP:CD1	2:K:956:LYS:HD3	2.28	0.69
2:L:306:THR:O	2:L:310:ARG:HG3	1.93	0.69
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.58	0.69
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.75	0.69
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.75	0.69
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	1.75	0.69
2:H:1007:LEU:N	2:H:1007:LEU:HD12	2.07	0.69
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.07	0.69
2:J:1405:ILE:HA	2:J:1445:THR:OG1	1.92	0.69
2:K:1976:CYS:O	2:K:1980:THR:HG23	1.93	0.69
2:L:1120:ILE:HD12	2:L:1167:ASN:O	1.93	0.69
1:A:1617:ILE:N	1:A:1617:ILE:HD13	2.08	0.69
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.75	0.69
1:F:423:ARG:O	1:F:429:ILE:HD11	1.93	0.69
2:G:1468:ARG:HH12	2:G:1475:LEU:HB2	1.56	0.69
2:H:1084:LYS:O	2:H:1088:ASP:HB2	1.93	0.69
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.08	0.69
2:H:506:VAL:HG12	2:H:506:VAL:O	1.92	0.69
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.74	0.69
2:K:1421:ARG:HD2	2:K:1426:VAL:HG21	1.74	0.69
2:K:489:GLU:HA	2:K:492:ARG:NH1	2.08	0.69
2:K:506:VAL:HG12	2:K:506:VAL:O	1.93	0.69
2:L:718:PRO:CG	2:L:727:VAL:HG21	2.23	0.69
1:A:1480:ARG:O	1:A:1484:GLU:HG3	1.93	0.69
1:A:470:GLY:O	1:A:474:ILE:HG13	1.92	0.69
1:A:539:THR:O	1:A:542:GLN:HG2	1.93	0.69
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.74	0.69
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.75	0.69
1:C:408:GLN:HG2	1:C:1610:ARG:HH12	1.58	0.69
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.74	0.69
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.73	0.69
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.74	0.69
2:H:917:ARG:HD3	2:H:937:ARG:NH2	2.08	0.69
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.75	0.69
1:C:60:THR:HG23	2:I:1922:VAL:HG13	1.75	0.69
2:I:571:ASP:HB3	2:I:574:LYS:HB2	1.73	0.69
1:D:42:GLU:OE1	2:J:1688:PRO:HB3	1.93	0.69
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.23	0.69
2:K:329:THR:HA	2:L:1331:THR:HG22	1.75	0.69

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1985:GLN:C	2:G:1987:VAL:H	1.96	0.68
2:H:1985:GLN:C	2:H:1987:VAL:H	1.97	0.68
2:I:1348:PHE:O	2:I:1351:VAL:HG12	1.93	0.68
2:K:290:VAL:HG22	2:K:490:LEU:HD13	1.76	0.68
2:L:718:PRO:HG2	2:L:727:VAL:HG21	1.74	0.68
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.58	0.68
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.74	0.68
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.76	0.68
1:F:1541:GLN:HE22	1:F:1633:GLN:HE22	1.40	0.68
2:H:289:ILE:HG12	2:H:493:MET:HE1	1.75	0.68
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.74	0.68
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.59	0.68
2:J:1084:LYS:O	2:J:1088:ASP:HB2	1.93	0.68
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.29	0.68
2:K:48:LEU:CD1	2:K:101:VAL:HG11	2.22	0.68
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.58	0.68
2:K:584:SER:HB3	2:K:1114:GLU:O	1.93	0.68
1:A:1476:ARG:HH12	1:E:1499:ARG:CD	2.05	0.68
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.24	0.68
1:B:956:ILE:HA	2:H:977:PRO:HA	1.75	0.68
1:D:580:ASN:OD1	1:D:583:GLN:HB2	1.92	0.68
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.76	0.68
2:G:117:ASN:HA	2:G:561:ARG:HG3	1.76	0.68
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.93	0.68
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.08	0.68
2:J:289:ILE:HG23	2:J:490:LEU:HD22	1.75	0.68
2:K:44:GLN:HG3	2:K:101:VAL:HG21	1.73	0.68
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.28	0.68
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.55	0.68
1:D:430:VAL:HG11	1:D:490:VAL:HG11	1.75	0.68
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.29	0.68
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.74	0.68
2:G:448:HIS:CD2	2:G:491:VAL:HG12	2.26	0.68
2:H:1370:LEU:HD12	2:H:1373:LEU:HD13	1.76	0.68
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.28	0.68
2:H:1871:VAL:HB	2:H:2003:VAL:HG22	1.75	0.68
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.74	0.68
2:J:1180:VAL:HG12	2:J:1188:GLN:H	1.59	0.68
2:J:506:VAL:HG12	2:J:506:VAL:O	1.93	0.68
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.08	0.68
2:K:1455:GLN:HB2	2:K:1551:ILE:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.94	0.68
2:L:1871:VAL:HB	2:L:2003:VAL:HG22	1.74	0.68
2:L:1026:LYS:HG3	3:L:2102:NAP:N7A	2.09	0.68
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.75	0.68
1:E:408:GLN:HG2	1:E:1610:ARG:HH12	1.59	0.68
2:H:43:PHE:CE2	2:I:22:ARG:HB3	2.28	0.68
2:H:718:PRO:CG	2:H:727:VAL:HG21	2.23	0.68
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.56	0.68
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.59	0.68
2:I:930:THR:HG22	2:I:933:GLU:CG	2.24	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.28	0.68
1:A:1079:ARG:HH11	1:A:1079:ARG:CG	2.04	0.68
1:A:983:GLN:HB3	1:A:1418:ILE:HG21	1.76	0.68
1:C:1102:ILE:HG22	1:C:1104:GLN:HG2	1.75	0.68
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.75	0.68
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.28	0.68
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.94	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:J:265:CYS:SG	2:J:275:LEU:HD12	2.34	0.68
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.94	0.68
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.22	0.68
2:L:1370:LEU:HD12	2:L:1373:LEU:HD13	1.75	0.68
2:L:699:ILE:HD12	2:L:699:ILE:H	1.58	0.68
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.76	0.68
2:G:930:THR:HG23	2:G:933:GLU:H	1.57	0.68
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	1.94	0.68
2:H:306:THR:O	2:H:310:ARG:HG3	1.94	0.68
2:I:1890:ARG:HH22	2:I:1996:ILE:CD1	2.07	0.68
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.54	0.68
2:K:930:THR:HG22	2:K:933:GLU:CG	2.24	0.68
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.59	0.68
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.76	0.68
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.75	0.68
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.90	0.68
1:B:767:HIS:HE1	1:E:767:HIS:CE1	2.12	0.68
1:F:1702:ARG:NH1	1:F:1702:ARG:CG	2.45	0.68
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.29	0.68
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.75	0.68
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.76	0.68
2:G:718:PRO:CG	2:G:727:VAL:HG21	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.76	0.68
2:K:1350:ILE:O	2:K:1354:TRP:HB2	1.93	0.68
1:E:928:ILE:HG12	2:K:1462:GLN:HA	1.76	0.68
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.59	0.67
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.75	0.67
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.76	0.67
1:D:582:SER:O	1:D:586:GLN:HB2	1.94	0.67
1:F:1617:ILE:HD13	1:F:1617:ILE:N	2.09	0.67
2:G:1099:LEU:HD21	2:G:1107:GLU:HG2	1.76	0.67
2:H:656:ARG:HG2	2:H:656:ARG:HH11	1.59	0.67
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.76	0.67
2:J:306:THR:O	2:J:310:ARG:HG3	1.94	0.67
2:J:358:ARG:NH2	2:J:383:VAL:HG21	2.08	0.67
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.59	0.67
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.06	0.67
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.29	0.67
1:D:853:MET:HG2	1:D:856:ASN:HD22	1.58	0.67
1:E:541:VAL:O	1:E:545:LEU:HG	1.94	0.67
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.75	0.67
2:H:20:SER:O	2:H:38:PRO:HA	1.94	0.67
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.08	0.67
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.75	0.67
2:I:1976:CYS:O	2:I:1980:THR:HG23	1.94	0.67
2:I:786:GLU:H	2:I:786:GLU:CD	1.98	0.67
2:J:1383:VAL:HG23	2:J:1428:TYR:HE1	1.59	0.67
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.74	0.67
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.28	0.67
2:K:827:GLN:NE2	2:K:827:GLN:H	1.92	0.67
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.76	0.67
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.59	0.67
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.29	0.67
1:B:1413:SER:HA	1:B:1499:ARG:HH22	1.59	0.67
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.75	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.29	0.67
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.76	0.67
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.30	0.67
2:I:1454:MET:CE	2:I:1550:SER:HA	2.24	0.67
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.59	0.67
2:J:465:LEU:HD11	2:J:486:ILE:HD11	1.76	0.67
2:J:756:ASP:HA	2:J:843:TRP:CH2	2.30	0.67
2:K:129:ILE:HD13	2:K:132:LYS:HE3	1.75	0.67

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1348:PHE:O	2:L:1351:VAL:HG12	1.95	0.67
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.60	0.67
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.75	0.67
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.29	0.67
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.30	0.67
1:B:433:CYS:O	1:B:437:MET:HG3	1.95	0.67
1:E:22:PHE:HE1	2:K:1867:MET:HG3	1.60	0.67
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.60	0.67
1:F:408:GLN:HG2	1:F:1610:ARG:HH12	1.60	0.67
1:F:427:ARG:HH11	1:F:492:ILE:HG12	1.59	0.67
2:G:284:GLY:H	2:G:289:ILE:HD12	1.58	0.67
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.42	0.67
2:H:1026:LYS:HG3	3:H:2102:NAP:N7A	2.09	0.67
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.60	0.67
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.77	0.67
2:H:796:TRP:CH2	2:H:805:MET:HE1	2.30	0.67
2:I:1867:MET:O	2:I:2003:VAL:HG21	1.94	0.67
2:I:265:CYS:SG	2:I:275:LEU:HD12	2.35	0.67
2:I:917:ARG:HG2	2:I:937:ARG:NH1	2.10	0.67
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.09	0.67
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	1.95	0.67
2:K:1985:GLN:C	2:K:1987:VAL:H	1.97	0.67
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.30	0.67
2:L:365:ILE:HG23	2:L:378:ILE:HG22	1.77	0.67
1:A:442:PRO:HD2	1:A:443:LEU:HD12	1.76	0.67
1:C:427:ARG:HG3	1:C:427:ARG:NH1	2.07	0.67
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.76	0.67
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.60	0.67
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.76	0.67
1:E:947:ASP:O	1:E:951:LEU:HG	1.95	0.67
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.20	0.67
1:F:1470:ARG:O	1:F:1474:ILE:HG13	1.94	0.67
2:G:329:THR:HA	2:H:1331:THR:HG22	1.76	0.67
2:G:489:GLU:HA	2:G:492:ARG:NH1	2.10	0.67
2:G:656:ARG:HH11	2:G:656:ARG:HG2	1.59	0.67
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.18	0.67
2:H:1976:CYS:O	2:H:1980:THR:HG23	1.95	0.67
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.60	0.67
2:I:220:GLN:C	2:I:222:PRO:HD3	2.15	0.67
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.76	0.67
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2036:ILE:HG22	2:J:2037:GLY:N	2.08	0.67
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.30	0.67
2:K:367:ALA:O	2:K:370:GLN:HB3	1.94	0.67
2:K:918:ASN:HB3	2:K:924:VAL:HG21	1.77	0.67
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.77	0.67
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.60	0.67
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.77	0.67
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.29	0.67
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.25	0.67
1:E:1207:TYR:CZ	1:E:1682:LYS:HD2	2.30	0.67
2:G:663:ILE:H	2:G:663:ILE:HD12	1.60	0.67
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.29	0.67
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.77	0.67
2:K:1468:ARG:NH1	2:K:1475:LEU:HB2	2.09	0.67
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.67
2:K:447:ALA:O	2:K:451:ILE:HG13	1.94	0.67
2:K:926:LEU:O	2:K:1008:ILE:HD11	1.94	0.67
2:L:1171:TRP:CD1	2:L:1171:TRP:C	2.68	0.67
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.76	0.67
1:C:1541:GLN:HE22	1:C:1633:GLN:HE22	1.41	0.67
1:C:1686:PRO:HB2	1:C:1713:PHE:CD1	2.30	0.67
1:C:501:ASP:HB3	1:C:505:ASN:HB2	1.77	0.67
1:C:683:THR:HB	1:C:714:PHE:HB3	1.76	0.67
1:D:501:ASP:HB3	1:D:505:ASN:HB2	1.77	0.67
1:E:1413:SER:HA	1:E:1499:ARG:HH22	1.60	0.67
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.75	0.67
2:H:1455:GLN:HB2	2:H:1551:ILE:HD11	1.76	0.67
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.75	0.67
2:H:265:CYS:SG	2:H:275:LEU:HD12	2.34	0.67
2:I:465:LEU:HD11	2:I:486:ILE:HD11	1.75	0.67
2:J:358:ARG:HB2	2:J:389:PHE:CZ	2.29	0.67
2:K:524:ILE:HG22	2:K:528:THR:HG23	1.77	0.67
2:L:611:THR:HG21	2:L:817:MET:HE2	1.76	0.67
1:A:1672:GLY:HA3	1:A:1678:LEU:CD2	2.22	0.66
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.77	0.66
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.55	0.66
2:G:926:LEU:O	2:G:1008:ILE:HD11	1.95	0.66
2:G:524:ILE:HG22	2:G:528:THR:HG23	1.77	0.66
2:G:718:PRO:HG2	2:G:727:VAL:HG21	1.77	0.66
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	1.76	0.66
2:H:1232:VAL:HG12	2:H:1246:LEU:HD23	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.75	0.66
2:I:1468:ARG:NH1	2:I:1475:LEU:HB2	2.09	0.66
2:I:950:TRP:CD1	2:I:956:LYS:HD3	2.30	0.66
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	1.95	0.66
2:K:1383:VAL:HG23	2:K:1428:TYR:HE1	1.59	0.66
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.76	0.66
2:K:768:ILE:O	2:K:774:ILE:HD12	1.95	0.66
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.95	0.66
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.76	0.66
2:L:270:ARG:HG3	2:L:274:GLU:OE1	1.95	0.66
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.76	0.66
2:L:942:MET:CE	2:L:955:LEU:HB3	2.25	0.66
1:A:1270:THR:HA	1:E:1386:THR:O	1.94	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
1:C:12:THR:O	1:C:16:GLU:HG2	1.95	0.66
1:C:859:VAL:HG12	1:C:863:VAL:HG23	1.75	0.66
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.76	0.66
2:G:162:ALA:HA	2:G:167:VAL:HG22	1.77	0.66
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.77	0.66
2:I:1985:GLN:C	2:I:1987:VAL:H	1.98	0.66
2:I:207:LEU:O	2:I:211:LEU:HG	1.95	0.66
2:J:110:GLU:HA	2:J:114:MET:HB2	1.76	0.66
2:J:524:ILE:HG22	2:J:528:THR:HG23	1.78	0.66
2:K:1290:TYR:CD2	2:K:1299:VAL:HB	2.30	0.66
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.77	0.66
1:A:1413:SER:HA	1:A:1499:ARG:HH22	1.60	0.66
1:B:859:VAL:HG12	1:B:863:VAL:HG23	1.77	0.66
1:D:756:ILE:HA	1:D:759:ILE:HD11	1.78	0.66
1:F:1504:ARG:NH1	1:F:1504:ARG:CG	2.45	0.66
1:F:575:ARG:O	1:F:579:MET:HG3	1.95	0.66
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.43	0.66
2:G:1455:GLN:HB2	2:G:1551:ILE:HD11	1.78	0.66
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.76	0.66
2:G:465:LEU:HD11	2:G:486:ILE:HD11	1.75	0.66
2:H:1348:PHE:O	2:H:1351:VAL:HG12	1.94	0.66
2:K:868:LEU:O	2:K:870:THR:HG23	1.95	0.66
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.30	0.66
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.78	0.66
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.77	0.66
1:B:575:ARG:O	1:B:579:MET:HG3	1.95	0.66
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.75	0.66
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.96	0.66
1:F:506:ILE:HD11	1:F:926:SER:HB3	1.75	0.66
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.59	0.66
2:H:1421:ARG:HD2	2:H:1426:VAL:HG21	1.77	0.66
2:H:1454:MET:CE	2:H:1550:SER:HA	2.25	0.66
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.11	0.66
2:K:1026:LYS:HG3	3:K:2102:NAP:N7A	2.10	0.66
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.78	0.66
2:L:1976:CYS:O	2:L:1980:THR:HG23	1.94	0.66
2:J:1331:THR:O	2:L:329:THR:HG22	1.95	0.66
2:L:48:LEU:CD1	2:L:101:VAL:HG11	2.25	0.66
1:A:1307:PHE:HB3	1:A:1357:CYS:CB	2.26	0.66
1:A:408:GLN:HG2	1:A:1610:ARG:NH1	2.10	0.66
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.76	0.66
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.76	0.66
2:G:1046:SER:O	2:G:1049:GLN:HG3	1.96	0.66
2:H:1701:GLU:H	2:H:1704:MET:HE3	1.60	0.66
2:I:270:ARG:HG3	2:I:274:GLU:OE1	1.95	0.66
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.77	0.66
2:K:420:PRO:HG3	2:K:847:TYR:CD1	2.29	0.66
2:K:117:ASN:OD1	2:K:561:ARG:HB2	1.95	0.66
2:L:44:GLN:HG3	2:L:101:VAL:HG21	1.78	0.66
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.77	0.66
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.24	0.66
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.77	0.66
1:D:978:LYS:HB3	1:D:979:PRO:HD3	1.77	0.66
1:E:533:SER:O	1:E:611:THR:HA	1.95	0.66
1:F:433:CYS:O	1:F:437:MET:HG3	1.95	0.66
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.59	0.66
2:G:306:THR:O	2:G:310:ARG:HG3	1.95	0.66
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.76	0.66
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.75	0.66
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.77	0.66
2:K:663:ILE:HD12	2:K:663:ILE:H	1.59	0.66
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.29	0.66
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.75	0.66
2:L:656:ARG:HH11	2:L:656:ARG:HG2	1.60	0.66
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.44	0.66
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.31	0.66
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1490:GLY:O	1:C:1509:THR:HB	1.96	0.66
1:D:1617:ILE:HD13	1:D:1617:ILE:N	2.10	0.66
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.30	0.66
2:G:1420:LYS:HG2	2:G:1425:PRO:HA	1.76	0.66
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.31	0.66
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.31	0.66
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.61	0.66
2:H:610:PRO:CD	4:H:2101:FMN:H6	2.21	0.66
2:H:472:THR:H	2:H:493:MET:HE3	1.61	0.66
2:I:779:GLY:O	2:I:780:SER:CB	2.43	0.66
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.76	0.66
2:J:950:TRP:CD1	2:J:956:LYS:HD3	2.30	0.66
2:K:220:GLN:C	2:K:222:PRO:HD3	2.16	0.66
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.95	0.66
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	1.96	0.66
2:L:1985:GLN:C	2:L:1987:VAL:H	1.98	0.66
1:A:330:LYS:HG3	1:A:333:ARG:NH1	2.11	0.66
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.05	0.66
1:B:1541:GLN:HE22	1:B:1633:GLN:HE22	1.41	0.66
1:C:405:TRP:CZ3	1:C:1609:SER:HB3	2.31	0.66
1:D:1413:SER:HA	1:D:1499:ARG:HH22	1.61	0.66
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.58	0.66
2:G:1171:TRP:C	2:G:1171:TRP:CD1	2.68	0.66
2:G:964:ARG:O	2:G:967:GLU:HB2	1.96	0.66
2:H:1701:GLU:H	2:H:1704:MET:CE	2.09	0.66
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.78	0.66
2:H:950:TRP:CD1	2:H:956:LYS:HD3	2.31	0.66
2:I:48:LEU:CD1	2:I:101:VAL:HG11	2.26	0.66
2:I:358:ARG:HH21	2:I:383:VAL:HG21	1.60	0.66
2:G:1340:LYS:HG3	2:I:376:ARG:NH2	2.11	0.66
2:J:930:THR:HG23	2:J:933:GLU:H	1.61	0.66
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.66
2:K:743:TRP:HZ2	2:K:757:PHE:HA	1.61	0.66
2:L:358:ARG:HB2	2:L:389:PHE:CZ	2.31	0.66
2:L:670:MET:HA	2:L:673:GLN:HB2	1.78	0.66
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.31	0.66
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	1.96	0.66
1:D:746:PHE:CE1	1:D:800:PRO:HG3	2.31	0.66
1:E:1490:GLY:O	1:E:1509:THR:HB	1.96	0.66
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.31	0.66
2:G:1048:TRP:HE1	2:G:1049:GLN:HE21	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.61	0.66
2:G:1891:ILE:HD11	2:G:1943:LEU:HB3	1.76	0.66
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.78	0.66
2:G:942:MET:CE	2:G:955:LEU:HB3	2.26	0.66
2:H:894:GLU:O	2:H:897:LYS:HG2	1.96	0.66
2:I:367:ALA:O	2:I:370:GLN:HB3	1.96	0.66
2:J:549:ASN:ND2	2:J:551:GLU:H	1.93	0.66
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.36	0.66
2:K:1181:PHE:O	2:K:1188:GLN:HB3	1.96	0.66
2:K:57:PRO:HG2	2:K:68:GLU:HG3	1.77	0.66
2:L:1579:ASN:O	2:L:1583:VAL:HG23	1.96	0.66
2:L:2036:ILE:HG22	2:L:2037:GLY:H	1.61	0.66
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.31	0.66
1:A:430:VAL:HG11	1:A:490:VAL:HG11	1.76	0.66
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.31	0.66
1:C:1386:THR:O	1:F:1270:THR:HA	1.96	0.66
1:C:978:LYS:HB3	1:C:979:PRO:HD3	1.77	0.66
1:E:616:HIS:HA	1:E:633:THR:HG23	1.76	0.66
1:E:632:LEU:HA	1:E:635:ILE:CG2	2.25	0.66
1:E:926:SER:O	1:E:930:GLN:HG2	1.96	0.66
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.78	0.66
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.77	0.66
2:H:1048:TRP:HE1	2:H:1049:GLN:HE21	1.44	0.66
2:H:129:ILE:HD13	2:H:132:LYS:HE3	1.77	0.66
2:H:289:ILE:HG23	2:H:490:LEU:HD22	1.78	0.66
2:H:623:ASN:OD1	2:H:653:PRO:HD3	1.96	0.66
2:H:756:ASP:HA	2:H:843:TRP:CH2	2.31	0.66
2:J:549:ASN:HD22	2:J:551:GLU:H	1.44	0.66
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.60	0.66
2:L:584:SER:HB3	2:L:1114:GLU:O	1.96	0.66
2:L:894:GLU:O	2:L:897:LYS:HG2	1.94	0.66
2:L:964:ARG:O	2:L:967:GLU:HB2	1.96	0.66
1:A:501:ASP:HB3	1:A:505:ASN:HB2	1.78	0.65
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.77	0.65
1:B:1413:SER:HA	1:B:1499:ARG:NH2	2.11	0.65
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.78	0.65
1:B:427:ARG:NH1	1:B:427:ARG:HG3	2.03	0.65
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.30	0.65
1:C:442:PRO:HD2	1:C:443:LEU:HD12	1.77	0.65
1:C:684:THR:HG21	1:C:691:VAL:HG11	1.77	0.65
1:D:1413:SER:HA	1:D:1499:ARG:NH2	2.12	0.65

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.27	0.65
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.60	0.65
1:A:1413:SER:HA	1:A:1499:ARG:NH2	2.11	0.65
1:A:1702:ARG:NH1	1:A:1702:ARG:HG3	2.09	0.65
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.30	0.65
1:C:1342:ARG:HB2	1:C:1345:SER:HB2	1.78	0.65
1:C:22:PHE:HE1	2:I:1867:MET:HG3	1.61	0.65
1:C:620:LYS:HA	1:C:625:ASN:O	1.97	0.65
1:C:777:LEU:O	1:C:781:ILE:HG13	1.96	0.65
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.32	0.65
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.76	0.65
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.32	0.65
1:E:1102:ILE:HG22	1:E:1104:GLN:HG2	1.77	0.65
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.61	0.65
2:G:549:ASN:HD22	2:G:550:THR:N	1.95	0.65
2:I:1220:ARG:HA	2:I:1229:VAL:O	1.96	0.65
2:I:1455:GLN:HB2	2:I:1551:ILE:HD11	1.77	0.65
2:I:549:ASN:HD22	2:I:551:GLU:H	1.44	0.65
2:J:1722:ALA:CB	2:J:1812:LEU:HD21	2.26	0.65
2:K:1067:LEU:HB2	4:K:2101:FMN:C7M	2.27	0.65
2:K:917:ARG:HG2	2:K:937:ARG:NH1	2.10	0.65
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.60	0.65
1:B:1342:ARG:HB2	1:B:1345:SER:HB2	1.78	0.65
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	1.96	0.65
1:B:538:ARG:HA	1:B:585:MET:HE1	1.77	0.65
1:C:1363:MET:HE3	1:C:1368:ALA:HB2	1.79	0.65
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.32	0.65
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.77	0.65
2:H:365:ILE:HG23	2:H:378:ILE:HG22	1.78	0.65
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.62	0.65
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.79	0.65
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.79	0.65
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.62	0.65
2:K:20:SER:O	2:K:38:PRO:HA	1.96	0.65
2:K:810:CYS:HG	2:K:812:PHE:HE1	1.44	0.65
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.11	0.65
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.60	0.65
1:C:965:TYR:OH	1:C:1199:LEU:HD22	1.96	0.65
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.61	0.65
1:E:1470:ARG:O	1:E:1474:ILE:HG13	1.97	0.65
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.78	0.65
1:E:989:ASN:H	1:E:1491:ASN:ND2	1.91	0.65
1:F:612:ILE:CD1	1:F:907:PHE:HZ	2.10	0.65
2:G:358:ARG:HB2	2:G:389:PHE:CZ	2.31	0.65
2:G:365:ILE:HG23	2:G:378:ILE:HG22	1.79	0.65
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.26	0.65
2:G:613:VAL:HG13	2:G:614:PRO:HD3	1.79	0.65
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.62	0.65
2:I:1933:LEU:O	2:I:1989:LEU:HD21	1.97	0.65
2:J:1009:ASN:O	2:J:1013:VAL:HG23	1.96	0.65
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.24	0.65
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.30	0.65
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.26	0.65
2:K:1579:ASN:O	2:K:1583:VAL:HG23	1.96	0.65
2:K:1701:GLU:H	2:K:1704:MET:CE	2.10	0.65
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.79	0.65
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.65
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.60	0.65
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.31	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:HD1	1.61	0.65
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.04	0.65
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.79	0.65
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.77	0.65
1:B:557:ARG:HD2	1:E:557:ARG:O	1.96	0.65
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.61	0.65
1:F:1674:ILE:HD12	2:L:1010:ALA:HB3	1.79	0.65
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.79	0.65
2:H:825:SER:HB2	2:H:1053:ILE:HG13	1.79	0.65
2:I:358:ARG:HB2	2:I:389:PHE:CZ	2.32	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.32	0.65
2:L:1231:THR:HG22	2:L:1232:VAL:HG13	1.79	0.65
2:L:524:ILE:HG22	2:L:528:THR:HG23	1.79	0.65
1:E:330:LYS:HG3	1:E:333:ARG:NH1	2.11	0.65
1:E:853:MET:HG2	1:E:856:ASN:HD22	1.61	0.65
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.26	0.65
2:G:1231:THR:HG22	2:G:1232:VAL:HG13	1.79	0.65
2:G:270:ARG:HG3	2:G:274:GLU:OE1	1.97	0.65
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.97	0.65
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.62	0.65
2:H:786:GLU:H	2:H:786:GLU:CD	2.00	0.65
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.65

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.77	0.64
2:J:786:GLU:CD	2:J:786:GLU:H	1.99	0.64
2:L:1048:TRP:CD2	2:L:1049:GLN:HG2	2.32	0.64
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	2.11	0.64
1:B:553:ARG:HH22	1:B:563:GLN:HB3	1.62	0.64
1:C:852:LEU:HD12	3:C:1901:NAP:O2A	1.97	0.64
2:G:1220:ARG:HA	2:G:1229:VAL:O	1.97	0.64
2:H:661:ASN:HD21	4:H:2101:FMN:HN3	1.44	0.64
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.79	0.64
2:I:549:ASN:ND2	2:I:551:GLU:H	1.94	0.64
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.80	0.64
2:K:1231:THR:HG22	2:K:1232:VAL:HG13	1.79	0.64
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.32	0.64
2:L:2036:ILE:CG2	2:L:2037:GLY:N	2.60	0.64
2:L:661:ASN:HD21	4:L:2101:FMN:HN3	1.44	0.64
1:A:1342:ARG:HB2	1:A:1345:SER:HB2	1.79	0.64
1:A:956:ILE:HA	2:G:977:PRO:HA	1.79	0.64
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.79	0.64
1:C:1480:ARG:O	1:C:1484:GLU:HG3	1.97	0.64
2:G:756:ASP:HA	2:G:843:TRP:CH2	2.32	0.64
2:H:1290:TYR:CD2	2:H:1299:VAL:HB	2.30	0.64
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.79	0.64
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.78	0.64
2:K:1650:THR:O	2:K:1669:ALA:HA	1.96	0.64
2:K:610:PRO:CD	4:K:2101:FMN:H6	2.23	0.64
2:L:1171:TRP:CZ3	2:L:1236:LEU:HB2	2.33	0.64
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.79	0.64
1:B:888:ILE:HA	1:B:891:LEU:HD12	1.79	0.64
1:C:11:TYR:O	1:C:15:VAL:HG23	1.97	0.64
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.08	0.64
1:C:632:LEU:HA	1:C:635:ILE:CG2	2.27	0.64
1:D:852:LEU:HD12	3:D:1901:NAP:O2A	1.96	0.64
1:E:1480:ARG:O	1:E:1484:GLU:HG3	1.98	0.64
1:E:421:ARG:NH2	1:E:1613:LYS:HB3	2.13	0.64
1:F:1413:SER:HA	1:F:1499:ARG:HH22	1.61	0.64
2:G:1067:LEU:HB2	4:G:2101:FMN:C7M	2.27	0.64
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.79	0.64
2:G:220:GLN:C	2:G:222:PRO:HD3	2.17	0.64
1:B:31:THR:HG23	2:H:2040:ILE:HG21	1.78	0.64
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.32	0.64
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1048:TRP:CD2	2:I:1049:GLN:HG2	2.32	0.64
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.12	0.64
2:I:1026:LYS:HG3	3:I:2102:NAP:N7A	2.11	0.64
2:I:756:ASP:HA	2:I:843:TRP:CH2	2.33	0.64
2:J:1220:ARG:HA	2:J:1229:VAL:O	1.97	0.64
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.12	0.64
2:J:1551:ILE:HG22	2:J:1552:GLU:HG3	1.79	0.64
2:J:1890:ARG:HH22	2:J:1996:ILE:CD1	2.10	0.64
2:J:1976:CYS:O	2:J:1980:THR:HG23	1.97	0.64
2:J:270:ARG:HG3	2:J:274:GLU:OE1	1.98	0.64
2:K:35:PHE:CE1	2:K:108:GLU:HG3	2.31	0.64
2:K:462:ALA:H	2:K:483:ASP:HA	1.61	0.64
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.80	0.64
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.32	0.64
2:L:465:LEU:HD11	2:L:486:ILE:HD11	1.78	0.64
1:A:1068:TYR:O	1:A:1072:ILE:HG13	1.98	0.64
1:A:70:ALA:O	2:I:403:LEU:HD12	1.97	0.64
1:D:828:TRP:HE1	1:D:838:THR:HA	1.62	0.64
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.25	0.64
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.13	0.64
1:F:1342:ARG:HB2	1:F:1345:SER:HB2	1.78	0.64
1:F:424:VAL:HG13	1:F:469:LEU:HD11	1.78	0.64
1:F:852:LEU:HD12	3:F:1901:NAP:O2A	1.96	0.64
2:G:950:TRP:CD1	2:G:956:LYS:HD3	2.33	0.64
2:H:1099:LEU:HD21	2:H:1107:GLU:HG2	1.80	0.64
2:H:1383:VAL:HG23	2:H:1428:TYR:HE1	1.62	0.64
2:H:584:SER:HB3	2:H:1114:GLU:O	1.97	0.64
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.33	0.64
2:J:549:ASN:HD22	2:J:550:THR:N	1.95	0.64
2:L:367:ALA:O	2:L:370:GLN:HB3	1.98	0.64
1:A:533:SER:CB	1:A:612:ILE:HB	2.27	0.64
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.78	0.64
1:B:767:HIS:CE1	1:E:767:HIS:CE1	2.85	0.64
1:C:424:VAL:HG13	1:C:469:LEU:HD11	1.79	0.64
1:D:424:VAL:HG13	1:D:469:LEU:HD11	1.78	0.64
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.79	0.64
1:B:767:HIS:CE1	1:E:767:HIS:HE1	2.15	0.64
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.78	0.64
2:I:1231:THR:HG22	2:I:1232:VAL:HG13	1.79	0.64
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.27	0.64
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.80	0.64
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.63	0.64
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.80	0.64
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.33	0.64
2:L:35:PHE:CE1	2:L:108:GLU:HG3	2.32	0.64
2:K:376:ARG:HE	2:L:1339:GLY:HA2	1.61	0.64
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.62	0.64
1:E:852:LEU:HD12	3:E:1901:NAP:O2A	1.97	0.64
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.33	0.64
1:F:1081:ILE:HG13	1:F:1159:LEU:O	1.98	0.64
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.27	0.64
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.80	0.64
2:G:20:SER:O	2:G:38:PRO:HA	1.98	0.64
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.80	0.64
2:H:655:GLY:HA3	2:H:1272:ALA:CB	2.28	0.64
2:H:448:HIS:CD2	2:H:491:VAL:HG12	2.29	0.64
2:I:1074:LYS:HE3	2:I:1075:TYR:HE1	1.61	0.64
2:I:489:GLU:HA	2:I:492:ARG:NH1	2.12	0.64
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.28	0.64
2:J:1301:PHE:HB3	2:J:1364:ARG:HG3	1.80	0.64
2:K:1232:VAL:HG12	2:K:1246:LEU:HD23	1.79	0.64
2:K:38:PRO:HD2	2:K:104:LEU:HD11	1.78	0.64
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.32	0.64
2:K:855:ILE:HD13	2:K:856:THR:N	2.13	0.64
2:L:1220:ARG:HA	2:L:1229:VAL:O	1.97	0.64
2:L:1551:ILE:HG22	2:L:1552:GLU:HG3	1.78	0.64
1:D:408:GLN:HG2	1:D:1610:ARG:NH1	2.12	0.64
1:D:907:PHE:O	1:D:909:PRO:HD3	1.98	0.64
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.33	0.64
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.79	0.64
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.80	0.64
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.80	0.64
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.61	0.64
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.98	0.64
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.62	0.64
2:J:367:ALA:O	2:J:370:GLN:HB3	1.98	0.64
2:J:584:SER:HB3	2:J:1114:GLU:O	1.97	0.64
2:K:1099:LEU:HD21	2:K:1107:GLU:HG2	1.80	0.64
2:K:1890:ARG:HH22	2:K:1996:ILE:CD1	2.10	0.64
2:L:447:ALA:O	2:L:451:ILE:HG13	1.98	0.64
2:L:950:TRP:CD1	2:L:956:LYS:HD3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1581:LEU:HD23	1:B:1617:ILE:HG12	1.80	0.64
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.80	0.64
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.63	0.64
1:D:539:THR:O	1:D:542:GLN:HG2	1.97	0.64
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.80	0.64
2:G:1348:PHE:O	2:G:1351:VAL:HG12	1.98	0.64
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.80	0.64
2:G:786:GLU:CD	2:G:786:GLU:H	2.01	0.64
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.63	0.64
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.10	0.64
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.79	0.64
2:J:1455:GLN:HB2	2:J:1551:ILE:HD11	1.79	0.64
2:L:265:CYS:SG	2:L:275:LEU:HD12	2.37	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.62	0.64
2:L:612:THR:HG22	2:L:612:THR:O	1.98	0.64
1:A:1102:ILE:HG22	1:A:1104:GLN:HG2	1.80	0.64
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.13	0.64
1:C:696:GLN:HG3	1:C:697:GLY:N	2.13	0.64
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.80	0.64
1:A:1386:THR:O	1:E:1270:THR:HA	1.97	0.64
1:E:1413:SER:HA	1:E:1499:ARG:NH2	2.12	0.64
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.33	0.64
1:F:442:PRO:HD2	1:F:443:LEU:HD12	1.78	0.64
1:F:808:PHE:HA	1:F:912:LYS:HD3	1.79	0.64
2:G:367:ALA:O	2:G:370:GLN:HB3	1.98	0.64
2:H:1181:PHE:O	2:H:1188:GLN:HB3	1.98	0.64
2:H:1180:VAL:HG12	2:H:1188:GLN:H	1.61	0.64
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.61	0.64
2:H:153:PRO:HB3	2:H:270:ARG:NH1	2.13	0.64
2:I:1232:VAL:HG12	2:I:1246:LEU:HD23	1.79	0.64
2:I:1290:TYR:CD2	2:I:1299:VAL:HB	2.32	0.64
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.79	0.64
2:J:779:GLY:O	2:J:780:SER:CB	2.45	0.64
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.63	0.64
2:K:49:LYS:O	2:K:53:LEU:HG	1.98	0.64
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.62	0.64
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.33	0.64
1:D:427:ARG:NH1	1:D:427:ARG:HG3	2.04	0.63
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	1.98	0.63
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.25	0.63
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:670:MET:HA	2:G:673:GLN:HB2	1.80	0.63
2:H:162:ALA:HA	2:H:167:VAL:HG22	1.79	0.63
2:I:670:MET:HA	2:I:673:GLN:HB2	1.80	0.63
2:J:44:GLN:HG3	2:J:101:VAL:HG21	1.78	0.63
2:J:220:GLN:C	2:J:222:PRO:HD3	2.18	0.63
2:J:472:THR:H	2:J:493:MET:HE3	1.63	0.63
2:K:110:GLU:HA	2:K:114:MET:HB2	1.80	0.63
2:K:305:ALA:O	2:K:309:LYS:HD3	1.98	0.63
2:K:661:ASN:HD21	4:K:2101:FMN:HN3	1.44	0.63
2:K:785:SER:HA	2:K:788:THR:HB	1.81	0.63
1:F:34:VAL:HG21	2:L:2045:ALA:O	1.97	0.63
2:L:549:ASN:HD22	2:L:551:GLU:H	1.45	0.63
1:A:1156:PHE:CZ	1:A:1316:TYR:HA	2.33	0.63
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.13	0.63
1:B:632:LEU:HA	1:B:635:ILE:CG2	2.27	0.63
1:C:470:GLY:O	1:C:474:ILE:HG13	1.96	0.63
1:D:12:THR:O	1:D:16:GLU:HG2	1.98	0.63
1:D:862:GLY:O	1:D:865:LYS:HB2	1.97	0.63
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.28	0.63
2:G:1266:HIS:NE2	2:G:1275:ARG:HD2	2.13	0.63
2:G:779:GLY:O	2:G:780:SER:CB	2.46	0.63
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.63
2:H:1067:LEU:HB2	4:H:2101:FMN:C7M	2.28	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.63	0.63
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.81	0.63
2:K:894:GLU:O	2:K:897:LYS:HG2	1.98	0.63
2:K:94:ALA:HB1	2:K:97:THR:OG1	1.98	0.63
2:L:1046:SER:O	2:L:1049:GLN:HG3	1.98	0.63
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.21	0.63
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.80	0.63
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.28	0.63
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.81	0.63
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.13	0.63
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.12	0.63
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.33	0.63
1:E:12:THR:O	1:E:16:GLU:HG2	1.99	0.63
2:I:162:ALA:HA	2:I:167:VAL:HG22	1.79	0.63
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.80	0.63
2:J:207:LEU:O	2:J:211:LEU:HG	1.98	0.63
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.63	0.63
2:K:1265:TYR:O	2:K:1267:PRO:HD3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:610:PRO:O	2:K:613:VAL:HG12	1.99	0.63
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.80	0.63
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.03	0.63
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.48	0.63
1:B:852:LEU:HD12	3:B:1901:NAP:O2A	1.99	0.63
1:B:424:VAL:HG13	1:B:469:LEU:HD11	1.78	0.63
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.80	0.63
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.81	0.63
1:F:339:GLN:O	1:F:343:ILE:HG13	1.98	0.63
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.62	0.63
2:H:1231:THR:HG22	2:H:1232:VAL:HG13	1.79	0.63
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.79	0.63
2:I:1123:ALA:O	2:I:1126:GLU:HG3	1.98	0.63
2:G:1331:THR:O	2:I:329:THR:HG22	1.98	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.63	0.63
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.80	0.63
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.81	0.63
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.81	0.63
2:L:1181:PHE:O	2:L:1188:GLN:HB3	1.98	0.63
2:L:1232:VAL:HG12	2:L:1246:LEU:HD23	1.79	0.63
2:L:655:GLY:HA3	2:L:1272:ALA:CB	2.29	0.63
2:L:827:GLN:H	2:L:827:GLN:NE2	1.96	0.63
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.64	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.95	0.63
1:C:1336:GLU:O	1:C:1340:MET:HG2	1.99	0.63
1:D:442:PRO:HD2	1:D:443:LEU:HD12	1.81	0.63
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.15	0.63
1:F:1102:ILE:HG22	1:F:1104:GLN:HG2	1.81	0.63
2:G:396:ILE:H	2:G:396:ILE:HD12	1.63	0.63
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.13	0.63
2:H:1007:LEU:H	2:H:1007:LEU:CD1	2.11	0.63
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.33	0.63
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.79	0.63
2:I:1084:LYS:O	2:I:1088:ASP:HB2	1.99	0.63
2:I:549:ASN:HD22	2:I:550:THR:N	1.97	0.63
2:I:655:GLY:HA3	2:I:1272:ALA:CB	2.28	0.63
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.33	0.63
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.81	0.63
2:J:22:ARG:O	2:J:37:VAL:HG23	1.98	0.63
2:J:276:LEU:HD12	2:J:298:ALA:O	1.97	0.63
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.97	0.63

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.14	0.62
1:C:1451:LYS:HG2	1:C:1454:ARG:NH2	2.15	0.62
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.30	0.62
1:D:1470:ARG:O	1:D:1474:ILE:HG13	1.98	0.62
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.34	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.16	0.62
2:G:193:TYR:CD1	2:G:263:ILE:HD13	2.33	0.62
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.34	0.62
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.62	0.62
2:H:549:ASN:HD22	2:H:550:THR:N	1.97	0.62
2:H:612:THR:HG22	2:H:612:THR:O	1.98	0.62
2:H:964:ARG:O	2:H:967:GLU:HB2	1.99	0.62
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.80	0.62
2:L:926:LEU:O	2:L:1008:ILE:HD11	1.99	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	1.98	0.62
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.81	0.62
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.80	0.62
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.30	0.62
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.62
1:F:617:LEU:N	1:F:617:LEU:HD23	2.13	0.62
2:G:1231:THR:CG2	2:G:1595:VAL:HG11	2.29	0.62
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.81	0.62
2:H:396:ILE:HD12	2:H:396:ILE:H	1.64	0.62
2:H:440:HIS:CD2	2:H:499:VAL:HG23	2.33	0.62
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.09	0.62
2:J:571:ASP:HB3	2:J:574:LYS:HB2	1.82	0.62
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.14	0.62
2:K:1922:VAL:HB	2:K:1925:MET:HB2	1.82	0.62
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.80	0.62
2:K:917:ARG:HD3	2:K:937:ARG:NH2	2.14	0.62
2:L:1922:VAL:HB	2:L:1925:MET:HB2	1.81	0.62
2:L:20:SER:O	2:L:38:PRO:HA	1.99	0.62
2:L:276:LEU:HD12	2:L:298:ALA:O	1.98	0.62
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.29	0.62
1:A:632:LEU:HA	1:A:635:ILE:CG2	2.29	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:D:1702:ARG:NH1	1:D:1702:ARG:CG	2.40	0.62
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.62	0.62
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.35	0.62
2:G:1515:LEU:O	2:G:1523:ILE:HD12	2.00	0.62
1:A:60:THR:HG23	2:G:1922:VAL:HG13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:743:TRP:HZ2	2:G:757:PHE:HA	1.63	0.62
2:H:1933:LEU:O	2:H:1989:LEU:HD21	1.99	0.62
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.34	0.62
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.80	0.62
2:H:549:ASN:HD22	2:H:551:GLU:H	1.46	0.62
2:J:1442:TYR:O	2:J:1445:THR:HG22	1.98	0.62
2:J:1729:ASN:O	2:J:1757:ILE:HG23	1.99	0.62
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.81	0.62
2:J:95:HIS:HB2	2:J:96:PRO:HD3	1.81	0.62
2:K:272:PRO:O	2:K:276:LEU:HB2	1.99	0.62
2:K:608:MET:H	2:K:612:THR:HB	1.65	0.62
2:K:670:MET:HA	2:K:673:GLN:HB2	1.81	0.62
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.80	0.62
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.63	0.62
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.81	0.62
1:A:620:LYS:HA	1:A:625:ASN:O	1.98	0.62
1:D:1113:LYS:HG3	1:D:1138:TYR:CE2	2.35	0.62
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.33	0.62
1:E:1267:LEU:HD11	1:E:1303:LEU:HD12	1.81	0.62
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.80	0.62
2:G:380:ILE:HG13	2:G:380:ILE:O	1.98	0.62
2:G:472:THR:H	2:G:493:MET:HE3	1.64	0.62
2:H:49:LYS:O	2:H:53:LEU:HG	1.99	0.62
2:I:461:PRO:HA	2:I:484:GLU:O	2.00	0.62
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.12	0.62
2:J:1871:VAL:HB	2:J:2003:VAL:HG22	1.80	0.62
2:J:447:ALA:O	2:J:451:ILE:HG13	1.99	0.62
2:J:743:TRP:HZ2	2:J:757:PHE:HA	1.65	0.62
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.00	0.62
1:D:433:CYS:O	1:D:437:MET:HG3	1.99	0.62
1:D:766:ALA:HA	1:D:769:ILE:HD12	1.80	0.62
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.80	0.62
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.82	0.62
1:F:978:LYS:HB3	1:F:979:PRO:HD3	1.82	0.62
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.14	0.62
2:H:276:LEU:HD12	2:H:298:ALA:O	2.00	0.62
2:H:699:ILE:H	2:H:699:ILE:HD12	1.64	0.62
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.29	0.62
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.00	0.62
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.81	0.62
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1468:ARG:NH1	2:J:1475:LEU:HB2	2.14	0.62
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.81	0.62
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.64	0.62
2:K:618:VAL:O	2:K:622:MET:HG3	1.99	0.62
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.30	0.62
2:L:846:THR:HG22	2:L:856:THR:N	2.15	0.62
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.82	0.62
1:A:399:TYR:OH	1:A:692:THR:HG23	1.99	0.62
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.82	0.62
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.81	0.62
1:C:746:PHE:CE1	1:C:800:PRO:HG3	2.35	0.62
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.00	0.62
1:E:11:TYR:O	1:E:15:VAL:HG23	1.99	0.62
2:G:1290:TYR:CD2	2:G:1299:VAL:HB	2.34	0.62
2:G:1468:ARG:NH1	2:G:1475:LEU:HB2	2.14	0.62
2:G:1612:THR:O	2:G:1616:VAL:HG12	1.99	0.62
2:G:855:ILE:HD13	2:G:856:THR:N	2.13	0.62
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.34	0.62
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.82	0.62
2:H:854:VAL:HG21	2:H:1070:PRO:CA	2.27	0.62
2:I:1350:ILE:O	2:I:1354:TRP:HB2	1.99	0.62
2:I:1922:VAL:HB	2:I:1925:MET:HB2	1.82	0.62
2:G:1340:LYS:HE3	2:I:376:ARG:HH22	1.65	0.62
2:I:610:PRO:O	2:I:613:VAL:HG12	2.00	0.62
2:I:699:ILE:H	2:I:699:ILE:HD12	1.63	0.62
2:J:49:LYS:O	2:J:53:LEU:HG	1.99	0.62
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.34	0.62
2:K:612:THR:HG22	2:K:612:THR:O	1.98	0.62
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.15	0.62
2:L:1180:VAL:HG12	2:L:1188:GLN:H	1.65	0.62
2:L:743:TRP:HZ2	2:L:757:PHE:HA	1.64	0.62
2:L:855:ILE:HD13	2:L:856:THR:N	2.15	0.62
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.63	0.62
1:B:550:LYS:NZ	1:B:631:LYS:HE2	2.15	0.62
1:C:1581:LEU:HD23	1:C:1617:ILE:HG12	1.82	0.62
1:C:862:GLY:O	1:C:865:LYS:HB2	1.99	0.62
1:C:911:LEU:O	1:C:915:MET:HG3	2.00	0.62
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.34	0.62
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.00	0.62
1:D:947:ASP:O	1:D:951:LEU:HG	1.99	0.62
1:E:433:CYS:O	1:E:437:MET:HG3	2.00	0.62

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:832:ILE:HA	2:K:868:LEU:HD11	1.81	0.61
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.65	0.61
2:L:110:GLU:HA	2:L:114:MET:HB2	1.82	0.61
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.07	0.61
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.82	0.61
2:L:49:LYS:O	2:L:53:LEU:HG	2.00	0.61
2:L:95:HIS:HB2	2:L:96:PRO:HD3	1.82	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.82	0.61
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.81	0.61
1:A:767:HIS:HE1	1:F:767:HIS:CE1	2.18	0.61
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.61
1:E:1451:LYS:HG2	1:E:1454:ARG:NH2	2.14	0.61
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.80	0.61
1:A:562:SER:HB3	1:F:555:GLN:OE1	1.99	0.61
2:G:1436:ARG:HH22	2:G:1602:LEU:HD13	1.65	0.61
2:G:549:ASN:ND2	2:G:551:GLU:H	1.97	0.61
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.36	0.61
2:I:612:THR:O	2:I:612:THR:HG22	2.00	0.61
2:J:1048:TRP:HE1	2:J:1049:GLN:HE21	1.46	0.61
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.64	0.61
2:J:605:VAL:HG22	2:J:816:MET:HG3	1.82	0.61
2:J:699:ILE:H	2:J:699:ILE:HD12	1.65	0.61
2:J:756:ASP:HA	2:J:843:TRP:HH2	1.65	0.61
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.64	0.61
2:K:348:THR:HB	2:K:349:PRO:CD	2.31	0.61
2:K:747:ARG:NH2	2:K:757:PHE:CE1	2.69	0.61
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.30	0.61
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.83	0.61
1:C:339:GLN:O	1:C:343:ILE:HG13	2.01	0.61
1:C:533:SER:HA	1:C:907:PHE:CE1	2.35	0.61
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.65	0.61
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.83	0.61
2:G:44:GLN:HG3	2:G:101:VAL:HG21	1.81	0.61
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.82	0.61
2:G:661:ASN:HD21	4:G:2101:FMN:HN3	1.48	0.61
2:G:49:LYS:O	2:G:53:LEU:HG	2.01	0.61
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.81	0.61
2:H:2005:PHE:HB3	2:H:2010:LEU:HD11	1.82	0.61
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.82	0.61
2:H:95:HIS:HB2	2:H:96:PRO:HD3	1.83	0.61
2:I:1232:VAL:CG1	2:I:1246:LEU:HD23	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:942:MET:CE	2:I:955:LEU:HB3	2.30	0.61
2:J:1048:TRP:CD2	2:J:1049:GLN:HG2	2.35	0.61
2:J:1046:SER:O	2:J:1049:GLN:HG3	2.00	0.61
2:J:501:TRP:HE1	2:J:528:THR:CG2	2.11	0.61
2:J:962:PHE:O	2:J:966:VAL:HG23	2.01	0.61
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	2.16	0.61
2:K:2036:ILE:HG22	2:K:2037:GLY:H	1.64	0.61
2:K:741:LEU:HG	2:K:741:LEU:O	2.00	0.61
2:K:794:GLY:O	2:K:804:PRO:HA	2.01	0.61
2:K:87:VAL:HG22	2:K:98:ASN:HB3	1.81	0.61
2:L:209:GLN:O	2:L:213:ARG:HG3	2.00	0.61
2:L:57:PRO:HG2	2:L:68:GLU:HG3	1.83	0.61
2:L:832:ILE:HA	2:L:868:LEU:HD11	1.82	0.61
2:L:868:LEU:O	2:L:870:THR:HG23	2.01	0.61
1:A:1470:ARG:O	1:A:1474:ILE:HG13	1.99	0.61
1:A:853:MET:HG2	1:A:856:ASN:HD22	1.65	0.61
1:B:405:TRP:CZ3	1:B:1609:SER:HB3	2.35	0.61
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.81	0.61
1:C:947:ASP:O	1:C:951:LEU:HG	2.00	0.61
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	1.81	0.61
1:D:911:LEU:O	1:D:915:MET:HG3	2.00	0.61
1:E:620:LYS:HA	1:E:625:ASN:O	2.00	0.61
1:F:1490:GLY:O	1:F:1509:THR:HB	2.01	0.61
1:F:947:ASP:O	1:F:951:LEU:HG	1.99	0.61
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.16	0.61
2:G:618:VAL:O	2:G:622:MET:HG3	2.01	0.61
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.35	0.61
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.65	0.61
2:H:305:ALA:O	2:H:309:LYS:HD3	2.01	0.61
2:I:1180:VAL:HG12	2:I:1188:GLN:H	1.65	0.61
2:I:1650:THR:O	2:I:1669:ALA:HA	2.01	0.61
2:I:1851:MET:HE1	2:I:1855:SER:HB3	1.83	0.61
2:J:1674:THR:HB	2:J:1676:GLU:HG3	1.83	0.61
2:J:351:LEU:HD22	2:J:352:SER:N	2.15	0.61
2:K:167:VAL:CG2	2:K:169:ILE:HG13	2.29	0.61
2:L:117:ASN:HA	2:L:561:ARG:HG3	1.82	0.61
2:L:532:LYS:HD3	2:L:537:VAL:HG21	1.82	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:CD1	2.30	0.61
1:B:617:LEU:HD23	1:B:617:LEU:N	2.15	0.61
1:E:405:TRP:CZ3	1:E:1609:SER:HB3	2.36	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:HD1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.09	0.61
1:F:1090:ASP:OD1	1:F:1092:ASN:HB2	2.00	0.61
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	1.82	0.61
1:F:1451:LYS:HG2	1:F:1454:ARG:NH2	2.16	0.61
1:F:669:VAL:O	1:F:673:LEU:HD12	2.01	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61
2:H:1232:VAL:CG1	2:H:1246:LEU:HD23	2.30	0.61
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.83	0.61
2:I:388:ASN:HD22	2:I:388:ASN:C	2.03	0.61
2:I:608:MET:H	2:I:612:THR:HB	1.66	0.61
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.83	0.61
2:I:902:ILE:O	2:I:906:LEU:HB2	2.01	0.61
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.35	0.61
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.82	0.61
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.82	0.61
2:L:1468:ARG:NH1	2:L:1475:LEU:HB2	2.14	0.61
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.61
1:B:22:PHE:HE1	2:H:1867:MET:HG3	1.66	0.61
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.01	0.61
1:C:905:LEU:HD22	1:C:911:LEU:HD21	1.83	0.61
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.83	0.61
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.53	0.61
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.36	0.61
2:G:276:LEU:HD12	2:G:298:ALA:O	2.00	0.61
2:G:791:TYR:HA	2:G:796:TRP:HD1	1.64	0.61
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.80	0.61
2:H:270:ARG:HG3	2:H:274:GLU:OE1	1.99	0.61
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.81	0.61
2:I:365:ILE:HG23	2:I:378:ILE:HG22	1.83	0.61
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.82	0.61
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.82	0.61
2:J:653:PRO:O	2:J:656:ARG:HB2	2.01	0.61
2:J:832:ILE:HA	2:J:868:LEU:HD11	1.83	0.61
2:K:1616:VAL:HG11	2:K:1679:LEU:CD1	2.27	0.61
2:K:2005:PHE:HB3	2:K:2010:LEU:HD11	1.83	0.61
2:L:1669:ALA:HB3	2:L:1679:LEU:HB2	1.82	0.61
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.83	0.61
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.82	0.61
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.01	0.61
1:B:427:ARG:HH11	1:B:492:ILE:HG12	1.65	0.61
1:C:575:ARG:O	1:C:579:MET:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.83	0.61
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.83	0.61
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	2.01	0.61
2:G:1180:VAL:HG12	2:G:1188:GLN:H	1.66	0.61
1:B:1670:HIS:CE1	2:H:1009:ASN:ND2	2.69	0.61
2:H:1046:SER:O	2:H:1049:GLN:HG3	2.01	0.61
2:H:22:ARG:O	2:H:37:VAL:HG23	2.01	0.61
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.82	0.61
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.35	0.61
2:I:1405:ILE:HA	2:I:1445:THR:OG1	1.99	0.61
2:I:2021:LEU:O	2:I:2025:ILE:HG13	2.01	0.61
2:I:57:PRO:HG2	2:I:68:GLU:HG3	1.83	0.61
2:J:1579:ASN:O	2:J:1583:VAL:HG23	1.99	0.61
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.31	0.61
2:J:162:ALA:HA	2:J:167:VAL:HG22	1.81	0.61
2:J:290:VAL:HG22	2:J:490:LEU:HD13	1.81	0.61
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.14	0.61
1:A:570:TYR:HD2	1:A:574:ILE:HD11	1.65	0.60
1:B:1113:LYS:HG3	1:B:1138:TYR:CE2	2.36	0.60
1:D:1448:ALA:HA	1:D:1451:LYS:CE	2.29	0.60
1:D:620:LYS:HA	1:D:625:ASN:O	2.00	0.60
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.29	0.60
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.83	0.60
2:G:1455:GLN:HB2	2:G:1551:ILE:CD1	2.31	0.60
2:G:1700:GLN:HA	2:G:1704:MET:CE	2.31	0.60
2:G:750:GLY:O	2:G:865:ILE:HA	2.01	0.60
2:H:35:PHE:CE1	2:H:108:GLU:HG3	2.36	0.60
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.31	0.60
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.60
2:I:2036:ILE:HG22	2:I:2037:GLY:H	1.65	0.60
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.60
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.83	0.60
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.01	0.60
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.36	0.60
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.35	0.60
2:L:94:ALA:HB1	2:L:97:THR:OG1	2.01	0.60
1:A:613:PRO:C	1:A:615:LEU:H	2.04	0.60
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	1.83	0.60
1:B:1451:LYS:HG2	1:B:1454:ARG:NH2	2.16	0.60
1:B:683:THR:HB	1:B:714:PHE:HB3	1.83	0.60
1:B:382:ILE:HD12	1:B:761:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1443:LEU:HD11	1:F:1470:ARG:HD2	1.83	0.60
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.82	0.60
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.66	0.60
2:H:1603:PRO:HG2	2:H:1642:MET:HE3	1.83	0.60
2:H:743:TRP:HZ2	2:H:757:PHE:HA	1.66	0.60
2:I:290:VAL:HG22	2:I:490:LEU:HD13	1.83	0.60
2:I:670:MET:HB2	2:I:674:ILE:HD12	1.83	0.60
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.82	0.60
2:J:1538:ASN:HB3	2:J:1541:ILE:HG22	1.84	0.60
2:J:305:ALA:O	2:J:309:LYS:HD3	2.01	0.60
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.30	0.60
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.82	0.60
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.37	0.60
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.66	0.60
2:L:158:LEU:HA	2:L:566:VAL:CG2	2.26	0.60
2:L:162:ALA:HA	2:L:167:VAL:HG22	1.82	0.60
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.35	0.60
1:A:1702:ARG:NH1	1:A:1702:ARG:CG	2.45	0.60
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.01	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.83	0.60
1:E:983:GLN:HB3	1:E:1418:ILE:HG21	1.81	0.60
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.81	0.60
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.19	0.60
2:H:1048:TRP:CD2	2:H:1049:GLN:HG2	2.36	0.60
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.00	0.60
2:H:1612:THR:O	2:H:1616:VAL:HG12	2.01	0.60
2:H:209:GLN:O	2:H:213:ARG:HG3	2.01	0.60
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.31	0.60
2:H:447:ALA:O	2:H:451:ILE:HG13	2.01	0.60
2:H:902:ILE:O	2:H:906:LEU:HB2	2.02	0.60
2:I:1067:LEU:HB2	4:I:2101:FMN:C7M	2.31	0.60
2:I:1515:LEU:O	2:I:1523:ILE:HD12	2.01	0.60
2:I:152:LYS:HB2	2:I:154:TYR:CE1	2.36	0.60
2:I:1701:GLU:H	2:I:1704:MET:CE	2.15	0.60
2:I:1700:GLN:HA	2:I:1704:MET:CE	2.30	0.60
2:I:1804:GLN:HB3	2:I:1861:PHE:CE1	2.36	0.60
2:I:197:VAL:HG12	2:I:201:ILE:HG13	1.82	0.60
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.84	0.60
1:D:41:THR:HA	2:J:1689:VAL:HB	1.83	0.60
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.83	0.60
2:J:2005:PHE:HB3	2:J:2010:LEU:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:918:ASN:HB3	2:J:924:VAL:CG2	2.30	0.60
2:J:94:ALA:HB1	2:J:97:THR:OG1	2.02	0.60
2:K:1094:HIS:O	2:K:1098:LEU:HB2	2.01	0.60
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.83	0.60
2:L:170:TYR:CZ	2:L:507:PHE:HB3	2.35	0.60
2:L:174:GLY:H	2:L:517:GLY:HA3	1.65	0.60
2:L:351:LEU:HD22	2:L:352:SER:N	2.16	0.60
2:L:396:ILE:HD12	2:L:396:ILE:H	1.66	0.60
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.83	0.60
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.36	0.60
2:L:930:THR:CG2	2:L:933:GLU:HG3	2.32	0.60
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.60
1:E:339:GLN:O	1:E:343:ILE:HG13	2.01	0.60
1:F:1260:ALA:O	1:F:1264:MET:HG3	2.00	0.60
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.17	0.60
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	2.02	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.66	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:CD2	2.36	0.60
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.82	0.60
2:J:1481:ILE:HD12	2:J:1515:LEU:HD23	1.83	0.60
2:K:170:TYR:CZ	2:K:507:PHE:HB3	2.36	0.60
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.60
1:D:1267:LEU:HD11	1:D:1303:LEU:HD12	1.82	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.31	0.60
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.01	0.60
1:E:570:TYR:HD2	1:E:574:ILE:HD11	1.66	0.60
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.60
1:F:1480:ARG:O	1:F:1484:GLU:HG3	2.01	0.60
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.32	0.60
2:G:1922:VAL:HB	2:G:1925:MET:HB2	1.84	0.60
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.83	0.60
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.20	0.60
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.19	0.60
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.02	0.60
2:J:1564:SER:HB2	2:J:1653:LEU:H	1.65	0.60
2:K:261:TYR:CD1	2:K:295:ILE:HG12	2.36	0.60
2:K:670:MET:HB2	2:K:674:ILE:HD12	1.83	0.60
2:K:882:LYS:HB3	2:K:898:ARG:HH12	1.65	0.60
2:L:1094:HIS:O	2:L:1098:LEU:HB2	2.02	0.60
2:L:1593:SER:OG	2:L:1596:PHE:HB2	2.01	0.60
2:L:549:ASN:ND2	2:L:551:GLU:H	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:987:MET:O	1:B:1490:GLY:HA3	2.00	0.60
1:E:557:ARG:NH1	1:E:557:ARG:CG	2.55	0.60
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.36	0.60
2:G:209:GLN:O	2:G:213:ARG:HG3	2.02	0.60
2:G:348:THR:HB	2:G:349:PRO:CD	2.31	0.60
2:G:918:ASN:HB3	2:G:924:VAL:CG2	2.31	0.60
2:H:1171:TRP:CZ3	2:H:1236:LEU:HB2	2.37	0.60
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.37	0.60
2:I:1564:SER:HB2	2:I:1653:LEU:H	1.67	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:HD2	1.66	0.60
2:J:930:THR:HA	2:J:1007:LEU:HA	1.83	0.60
2:J:209:GLN:O	2:J:213:ARG:HG3	2.01	0.60
2:J:193:TYR:CD1	2:J:263:ILE:HD13	2.37	0.60
2:J:917:ARG:HG2	2:J:937:ARG:NH1	2.16	0.60
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.31	0.60
2:K:1266:HIS:NE2	2:K:1275:ARG:HD2	2.17	0.60
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.15	0.60
2:K:174:GLY:H	2:K:517:GLY:HA3	1.67	0.60
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.20	0.60
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.82	0.60
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.28	0.60
2:L:2005:PHE:HB3	2:L:2010:LEU:HD11	1.83	0.60
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.83	0.60
1:C:1113:LYS:HG3	1:C:1138:TYR:CE2	2.35	0.60
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.67	0.60
1:C:1425:LEU:HD21	1:C:1429:ARG:NH2	2.16	0.60
1:D:1490:GLY:O	1:D:1509:THR:HB	2.02	0.60
1:D:524:LYS:O	1:D:528:GLU:HG3	2.01	0.60
1:E:673:LEU:O	1:E:678:ALA:HB3	2.00	0.60
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.37	0.60
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.83	0.60
1:F:853:MET:HG2	1:F:856:ASN:HD22	1.65	0.60
2:G:1171:TRP:CZ3	2:G:1236:LEU:HB2	2.37	0.60
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.66	0.60
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.37	0.60
2:G:832:ILE:HA	2:G:868:LEU:HD11	1.84	0.60
2:H:57:PRO:HG2	2:H:68:GLU:HG3	1.83	0.60
2:H:846:THR:HG22	2:H:856:THR:N	2.17	0.60
2:H:917:ARG:HD2	2:H:917:ARG:N	2.16	0.60
2:I:685:VAL:HG23	2:I:1186:ARG:HH12	1.67	0.60
2:I:1593:SER:OG	2:I:1596:PHE:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.60
2:I:396:ILE:H	2:I:396:ILE:HD12	1.66	0.60
2:I:855:ILE:HD13	2:I:856:THR:N	2.17	0.60
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.55	0.60
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.02	0.60
2:J:1515:LEU:O	2:J:1523:ILE:HD12	2.01	0.60
2:J:174:GLY:H	2:J:517:GLY:HA3	1.66	0.60
2:J:1944:ASN:HA	2:J:1993:PHE:HD2	1.67	0.60
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.64	0.60
2:K:1207:THR:O	2:K:1215:THR:HA	2.01	0.60
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.84	0.60
2:K:380:ILE:O	2:K:380:ILE:HG13	2.02	0.60
2:L:102:LEU:O	2:L:106:LEU:HG	2.02	0.60
2:L:1515:LEU:O	2:L:1523:ILE:HD12	2.02	0.60
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.82	0.60
2:L:440:HIS:HD2	2:L:497:ASP:O	1.84	0.60
1:A:1113:LYS:HG3	1:A:1138:TYR:CE2	2.37	0.60
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.37	0.60
1:C:502:ALA:HA	1:C:929:ARG:HD3	1.83	0.60
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.84	0.60
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.32	0.60
1:D:1480:ARG:O	1:D:1484:GLU:HG3	2.01	0.60
1:E:1120:LYS:HD3	1:E:1129:ILE:HG12	1.83	0.60
2:G:1403:ALA:HB2	2:G:1447:GLN:HG3	1.82	0.60
2:G:290:VAL:HG22	2:G:490:LEU:HD13	1.83	0.60
2:G:930:THR:HA	2:G:1007:LEU:HA	1.83	0.60
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.37	0.60
2:H:549:ASN:ND2	2:H:551:GLU:H	1.98	0.60
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.37	0.60
2:I:35:PHE:CE1	2:I:108:GLU:HG3	2.37	0.60
2:I:1421:ARG:O	2:I:1421:ARG:HG2	2.02	0.60
2:J:197:VAL:HG12	2:J:201:ILE:HG13	1.84	0.60
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.20	0.60
2:J:272:PRO:O	2:J:276:LEU:HB2	2.01	0.60
2:J:846:THR:HG22	2:J:856:THR:N	2.16	0.60
2:K:1232:VAL:CG1	2:K:1246:LEU:HD23	2.32	0.60
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.84	0.60
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.83	0.60
2:K:95:HIS:HB2	2:K:96:PRO:HD3	1.84	0.60
2:L:1317:ASN:HB3	2:L:1320:ALA:HB3	1.84	0.60
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.84	0.60
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.17	0.60
2:L:172:ILE:HG22	2:L:514:VAL:O	2.02	0.60
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.84	0.60
1:A:673:LEU:O	1:A:678:ALA:HB3	2.02	0.60
1:B:1224:SER:HB2	1:B:1307:PHE:O	2.01	0.60
1:B:11:TYR:O	1:B:15:VAL:HG23	2.02	0.60
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.01	0.60
1:C:399:TYR:OH	1:C:692:THR:HG23	2.01	0.60
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.17	0.60
2:G:298:ALA:CB	2:G:304:PHE:HA	2.32	0.60
2:G:35:PHE:CE1	2:G:108:GLU:HG3	2.37	0.60
2:G:655:GLY:HA3	2:G:1272:ALA:CB	2.32	0.60
2:H:174:GLY:H	2:H:517:GLY:HA3	1.67	0.60
2:H:272:PRO:O	2:H:276:LEU:HB2	2.01	0.60
2:H:663:ILE:HG21	3:H:2102:NAP:H1D	1.82	0.60
2:H:750:GLY:O	2:H:865:ILE:HA	2.00	0.60
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.36	0.60
2:I:1722:ALA:CB	2:I:1812:LEU:HD21	2.32	0.60
2:I:380:ILE:HG13	2:I:380:ILE:O	2.02	0.60
2:J:1795:SER:HB3	2:J:1799:LEU:HD12	1.81	0.60
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.02	0.60
2:J:964:ARG:O	2:J:967:GLU:HB2	2.00	0.60
2:K:1564:SER:HB2	2:K:1653:LEU:H	1.67	0.60
2:K:606:ALA:HB2	2:K:811:MET:HG3	1.83	0.60
2:K:846:THR:HG22	2:K:856:THR:N	2.17	0.60
2:L:290:VAL:HG22	2:L:490:LEU:HD13	1.83	0.60
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.65	0.60
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.65	0.60
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.99	0.60
1:A:862:GLY:O	1:A:865:LYS:HB2	2.02	0.60
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.00	0.60
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.84	0.60
1:D:1532:LYS:HE2	1:D:1598:VAL:HG11	1.84	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.84	0.60
1:E:1342:ARG:HB2	1:E:1345:SER:HB2	1.84	0.60
2:G:129:ILE:HD13	2:G:132:LYS:HE3	1.83	0.60
2:G:1564:SER:HB2	2:G:1653:LEU:H	1.67	0.60
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.84	0.60
2:G:1669:ALA:HB3	2:G:1679:LEU:HB2	1.84	0.60
2:G:584:SER:HB3	2:G:1114:GLU:O	2.01	0.60

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:472:THR:H	2:K:493:MET:HE3	1.66	0.59
2:L:768:ILE:O	2:L:774:ILE:HD12	2.01	0.59
1:A:636:TYR:CD1	1:A:888:ILE:HD11	2.37	0.59
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.80	0.59
1:B:1269:SER:O	1:D:1386:THR:HB	2.02	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.89	0.59
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.84	0.59
1:D:22:PHE:HE1	2:J:1867:MET:HG3	1.67	0.59
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.38	0.59
1:E:862:GLY:O	1:E:865:LYS:HB2	2.01	0.59
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.03	0.59
2:G:606:ALA:HB2	2:G:811:MET:HG3	1.84	0.59
2:G:741:LEU:O	2:G:741:LEU:HG	2.02	0.59
2:H:94:ALA:HB1	2:H:97:THR:OG1	2.02	0.59
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.85	0.59
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.32	0.59
2:J:1400:GLN:HG3	2:J:1448:ARG:HH12	1.68	0.59
2:J:348:THR:HB	2:J:349:PRO:CD	2.32	0.59
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.85	0.59
2:K:685:VAL:CG2	2:K:1186:ARG:HH12	2.04	0.59
1:E:42:GLU:OE1	2:K:1688:PRO:HB3	2.02	0.59
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.01	0.59
2:L:349:PRO:O	2:L:392:THR:HG22	2.02	0.59
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.17	0.59
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.38	0.59
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.68	0.59
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.38	0.59
1:B:947:ASP:O	1:B:951:LEU:HG	2.02	0.59
1:C:1307:PHE:HB3	1:C:1357:CYS:CB	2.32	0.59
1:C:766:ALA:HA	1:C:769:ILE:HD12	1.83	0.59
1:D:617:LEU:N	1:D:617:LEU:HD23	2.17	0.59
1:E:1581:LEU:HD23	1:E:1617:ILE:HG12	1.84	0.59
1:E:470:GLY:O	1:E:474:ILE:HG13	2.02	0.59
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.83	0.59
2:G:1603:PRO:HG2	2:G:1642:MET:HE3	1.83	0.59
2:G:663:ILE:HG21	3:G:2102:NAP:H1D	1.84	0.59
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.85	0.59
2:G:95:HIS:HB2	2:G:96:PRO:HD3	1.84	0.59
2:H:2036:ILE:CG2	2:H:2037:GLY:N	2.64	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.86	0.59
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.84	0.59
2:I:1266:HIS:NE2	2:I:1275:ARG:HD2	2.17	0.59
2:I:686:PRO:HB3	2:I:1187:PHE:CE1	2.36	0.59
2:I:917:ARG:HD2	2:I:917:ARG:N	2.17	0.59
2:J:1455:GLN:HB2	2:J:1551:ILE:CD1	2.32	0.59
2:J:661:ASN:HD21	4:J:2101:FMN:HN3	1.50	0.59
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.66	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.16	0.59
2:L:1701:GLU:H	2:L:1704:MET:CE	2.15	0.59
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.85	0.59
2:L:962:PHE:O	2:L:966:VAL:HG23	2.03	0.59
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.02	0.59
1:A:1207:TYR:CZ	1:A:1682:LYS:HD2	2.37	0.59
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.85	0.59
1:A:947:ASP:O	1:A:951:LEU:HG	2.01	0.59
1:B:1120:LYS:HD3	1:B:1129:ILE:HG12	1.84	0.59
1:B:1700:GLN:O	1:B:1702:ARG:HG3	2.02	0.59
1:B:696:GLN:HG3	1:B:697:GLY:N	2.16	0.59
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.05	0.59
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.02	0.59
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.85	0.59
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.84	0.59
2:H:1377:SER:HB3	2:H:1432:GLN:HB2	1.84	0.59
2:H:1700:GLN:HA	2:H:1704:MET:CE	2.30	0.59
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.01	0.59
2:H:374:GLU:CA	2:H:377:HIS:CD2	2.77	0.59
2:I:129:ILE:HD13	2:I:132:LYS:HE3	1.84	0.59
2:I:1620:VAL:O	2:I:1624:ALA:HB3	2.03	0.59
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.33	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:J:1404:VAL:O	2:J:1445:THR:HA	2.02	0.59
2:J:1851:MET:HE2	2:J:1855:SER:HB3	1.85	0.59
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.37	0.59
2:K:747:ARG:NH1	2:K:780:SER:HB3	2.17	0.59
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.84	0.59
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.32	0.59
1:A:1095:GLN:O	1:A:1096:LEU:HD23	2.02	0.59
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.85	0.59
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.38	0.59
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.20	0.59
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1446:GLU:O	1:F:1450:ILE:HG13	2.03	0.59
1:F:849:GLY:HA3	1:F:873:GLN:CG	2.33	0.59
1:F:862:GLY:O	1:F:865:LYS:HB2	2.02	0.59
2:H:1266:HIS:NE2	2:H:1275:ARG:HD2	2.18	0.59
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.33	0.59
2:H:298:ALA:CB	2:H:304:PHE:HA	2.32	0.59
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.62	0.59
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.02	0.59
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.37	0.59
2:J:2036:ILE:HG22	2:J:2037:GLY:H	1.67	0.59
2:J:350:MET:HG3	2:J:435:ILE:HB	1.85	0.59
2:J:380:ILE:HG13	2:J:380:ILE:O	2.03	0.59
2:J:635:TYR:CB	2:J:641:MET:HG3	2.32	0.59
2:J:942:MET:HE1	2:J:955:LEU:HB3	1.84	0.59
2:K:1933:LEU:O	2:K:1989:LEU:HD21	2.03	0.59
2:K:351:LEU:HD22	2:K:352:SER:N	2.17	0.59
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.84	0.59
2:L:1067:LEU:HB2	4:L:2101:FMN:HM71	1.85	0.59
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.84	0.59
2:L:1305:LEU:HD12	2:L:1305:LEU:H	1.65	0.59
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.80	0.59
1:A:1079:ARG:NH1	1:A:1079:ARG:HG2	2.09	0.59
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.01	0.59
1:A:427:ARG:NH1	1:A:427:ARG:CG	2.57	0.59
1:A:767:HIS:CE1	1:F:767:HIS:HE1	2.20	0.59
1:D:1700:GLN:O	1:D:1702:ARG:HG3	2.02	0.59
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.03	0.59
2:G:1007:LEU:N	2:G:1007:LEU:HD12	2.15	0.59
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.18	0.59
2:G:1551:ILE:HG22	2:G:1552:GLU:HG3	1.84	0.59
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.85	0.59
2:G:57:PRO:HG2	2:G:68:GLU:HG3	1.83	0.59
2:G:699:ILE:H	2:G:699:ILE:HD12	1.67	0.59
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.85	0.59
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.85	0.59
2:I:298:ALA:CB	2:I:304:PHE:HA	2.33	0.59
2:I:351:LEU:HD22	2:I:352:SER:N	2.18	0.59
2:I:420:PRO:HG3	2:I:847:TYR:CE1	2.38	0.59
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.37	0.59
2:K:1342:PHE:HE2	2:K:1391:VAL:CG2	2.14	0.59
2:K:1454:MET:CE	2:K:1550:SER:HA	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.37	0.59
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.83	0.59
2:L:1454:MET:CE	2:L:1550:SER:HA	2.33	0.59
2:L:1851:MET:HE2	2:L:1855:SER:HB3	1.85	0.59
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.03	0.59
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.02	0.59
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.85	0.59
2:L:918:ASN:HB3	2:L:924:VAL:CG2	2.33	0.59
1:A:987:MET:O	1:A:1490:GLY:HA3	2.03	0.59
1:A:418:ILE:HA	1:A:462:THR:HB	1.84	0.59
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.38	0.59
1:A:849:GLY:HA3	1:A:873:GLN:CG	2.32	0.59
1:A:926:SER:O	1:A:930:GLN:HG2	2.02	0.59
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.38	0.59
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.67	0.59
1:B:339:GLN:O	1:B:343:ILE:HG13	2.02	0.59
1:B:415:TYR:O	1:B:419:PHE:HD1	1.85	0.59
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.84	0.59
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.41	0.59
1:C:427:ARG:NH1	1:C:492:ILE:HG23	2.10	0.59
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.84	0.59
1:D:1672:GLY:HA3	1:D:1678:LEU:CD2	2.31	0.59
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	2.01	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.86	0.59
2:G:22:ARG:O	2:G:37:VAL:HG23	2.03	0.59
2:G:612:THR:HG22	2:G:612:THR:O	2.03	0.59
2:H:768:ILE:O	2:H:774:ILE:HD12	2.02	0.59
2:H:794:GLY:O	2:H:804:PRO:HA	2.03	0.59
2:I:1007:LEU:CD1	2:I:1007:LEU:H	2.13	0.59
2:I:1481:ILE:HD12	2:I:1515:LEU:HD23	1.84	0.59
2:I:1674:THR:HB	2:I:1676:GLU:HG3	1.85	0.59
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.85	0.59
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.65	0.59
2:I:747:ARG:NH1	2:I:780:SER:HB3	2.18	0.59
2:J:1380:TYR:CD2	2:J:1429:VAL:HG22	2.37	0.59
2:J:1881:TYR:CZ	2:J:2009:PHE:HE1	2.21	0.59
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.85	0.59
2:K:613:VAL:HG13	2:K:614:PRO:HD3	1.84	0.59
2:K:653:PRO:O	2:K:656:ARG:HB2	2.03	0.59
2:K:824:THR:HB	2:K:829:LYS:HE3	1.83	0.59
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1120:ILE:HD13	2:L:1173:HIS:CE1	2.37	0.59
1:D:68:TYR:CD1	2:L:371:HIS:CD2	2.90	0.59
2:L:501:TRP:HE1	2:L:528:THR:CG2	2.09	0.59
1:A:1121:ARG:NH1	1:E:1153:ALA:O	2.36	0.59
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.37	0.59
1:A:883:LEU:HA	1:A:888:ILE:HD12	1.84	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.37	0.59
1:B:1691:ILE:HG22	1:B:1695:VAL:HG23	1.84	0.59
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.85	0.59
1:B:399:TYR:OH	1:B:692:THR:HG23	2.02	0.59
1:D:415:TYR:O	1:D:419:PHE:HD1	1.86	0.59
1:D:541:VAL:O	1:D:545:LEU:HG	2.03	0.59
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.84	0.59
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.59
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.84	0.59
1:C:1269:SER:O	1:F:1386:THR:HB	2.02	0.59
1:C:1484:GLU:OE1	1:F:1488:SER:HB3	2.03	0.59
1:F:1207:TYR:CZ	1:F:1682:LYS:HD2	2.37	0.59
1:F:40:ARG:NH2	1:F:72:THR:HG22	2.18	0.59
1:F:430:VAL:O	1:F:434:ILE:HG13	2.03	0.59
2:G:1009:ASN:O	2:G:1013:VAL:HG23	2.02	0.59
2:G:167:VAL:CG2	2:G:169:ILE:HG13	2.32	0.59
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.03	0.59
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.03	0.59
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.33	0.59
2:H:1851:MET:HE2	2:H:1855:SER:HB3	1.84	0.59
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.03	0.59
2:H:663:ILE:H	2:H:663:ILE:CD1	2.15	0.59
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.84	0.59
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.79	0.59
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.37	0.59
2:J:606:ALA:HB2	2:J:811:MET:HG3	1.84	0.59
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.66	0.59
2:K:372:LEU:HD11	2:K:397:SER:HB2	1.83	0.59
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.59
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.38	0.59
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.02	0.59
2:L:472:THR:H	2:L:493:MET:HE3	1.66	0.59
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.85	0.58
1:A:41:THR:HG21	2:G:1691:ALA:HB2	1.85	0.58
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:PRO:HD2	1:B:443:LEU:HD12	1.85	0.58
1:B:620:LYS:HA	1:B:625:ASN:O	2.02	0.58
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.85	0.58
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.65	0.58
1:E:1446:GLU:O	1:E:1450:ILE:HG13	2.03	0.58
1:E:1443:LEU:HD11	1:E:1470:ARG:HD2	1.85	0.58
1:A:1401:LEU:HD22	1:E:1697:LEU:HD21	1.85	0.58
1:E:501:ASP:OD2	1:E:503:ARG:HB2	2.03	0.58
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.31	0.58
1:F:696:GLN:HG3	1:F:697:GLY:N	2.17	0.58
2:G:1094:HIS:O	2:G:1098:LEU:HB2	2.03	0.58
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.33	0.58
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.03	0.58
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.85	0.58
2:G:731:ALA:HA	2:G:739:ILE:HD13	1.85	0.58
2:G:846:THR:HG22	2:G:856:THR:N	2.18	0.58
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.38	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.85	0.58
2:H:992:ALA:O	2:H:995:ARG:HB3	2.02	0.58
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.66	0.58
2:I:1380:TYR:CD2	2:I:1429:VAL:HG22	2.38	0.58
2:I:1880:ASN:HB3	2:I:1881:TYR:CD1	2.38	0.58
2:I:743:TRP:HZ2	2:I:757:PHE:HA	1.68	0.58
2:I:930:THR:HA	2:I:1007:LEU:HA	1.85	0.58
2:J:1709:TYR:C	2:J:1709:TYR:HD2	2.06	0.58
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.02	0.58
2:J:1944:ASN:HA	2:J:1993:PHE:CD2	2.37	0.58
2:J:942:MET:CE	2:J:955:LEU:HB3	2.32	0.58
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.33	0.58
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.38	0.58
2:L:1867:MET:O	2:L:2003:VAL:HG21	2.02	0.58
1:F:6:GLU:HA	2:L:2050:ILE:HD11	1.85	0.58
2:L:616:ASP:OD1	2:L:616:ASP:N	2.35	0.58
2:L:606:ALA:HB2	2:L:811:MET:HG3	1.83	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.23	0.58
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.85	0.58
1:C:1120:LYS:HD3	1:C:1129:ILE:HG12	1.85	0.58
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.38	0.58
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.85	0.58
1:D:1580:VAL:O	1:D:1617:ILE:HD11	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1038:HIS:O	1:E:1048:SER:HA	2.03	0.58
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.18	0.58
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.03	0.58
2:G:1538:ASN:HB3	2:G:1541:ILE:HG22	1.85	0.58
2:G:1709:TYR:C	2:G:1709:TYR:HD2	2.06	0.58
2:G:351:LEU:HD22	2:G:352:SER:N	2.17	0.58
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.84	0.58
2:I:1171:TRP:CZ3	2:I:1236:LEU:HB2	2.38	0.58
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.68	0.58
2:I:348:THR:HB	2:I:349:PRO:CD	2.33	0.58
2:J:1436:ARG:NH2	2:J:1602:LEU:CD1	2.67	0.58
2:J:1620:VAL:O	2:J:1624:ALA:HB3	2.03	0.58
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.38	0.58
2:K:1612:THR:O	2:K:1616:VAL:HG12	2.03	0.58
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	1.84	0.58
2:K:1722:ALA:CB	2:K:1812:LEU:HD21	2.33	0.58
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.13	0.58
2:K:917:ARG:HH11	2:K:917:ARG:HG2	1.66	0.58
2:L:1265:TYR:O	2:L:1267:PRO:HD3	2.03	0.58
2:L:610:PRO:HD2	4:L:2101:FMN:C6	2.24	0.58
2:L:876:TRP:CD1	2:L:876:TRP:C	2.77	0.58
2:L:952:ASP:OD1	2:L:953:PRO:HD2	2.04	0.58
1:C:828:TRP:HE1	1:C:838:THR:HA	1.67	0.58
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.85	0.58
2:G:1421:ARG:HG2	2:G:1421:ARG:O	2.02	0.58
2:G:2036:ILE:HG22	2:G:2037:GLY:H	1.67	0.58
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.85	0.58
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.34	0.58
2:G:94:ALA:HB1	2:G:97:THR:OG1	2.03	0.58
2:H:380:ILE:HG13	2:H:380:ILE:O	2.03	0.58
2:I:2005:PHE:HB3	2:I:2010:LEU:HD11	1.83	0.58
2:J:1094:HIS:O	2:J:1098:LEU:HB2	2.02	0.58
2:J:57:PRO:HG2	2:J:68:GLU:HG3	1.84	0.58
2:K:298:ALA:CB	2:K:304:PHE:HA	2.32	0.58
2:L:1436:ARG:NH2	2:L:1602:LEU:CD1	2.66	0.58
1:F:1107:GLU:HG3	1:F:1108:PRO:CD	2.29	0.58
1:F:470:GLY:O	1:F:474:ILE:HG13	2.04	0.58
2:G:596:ARG:HH22	2:G:1113:ILE:CD1	2.16	0.58
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.33	0.58
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.43	0.58
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:290:VAL:HG22	2:H:490:LEU:HD13	1.85	0.58
2:H:43:PHE:HZ	2:I:42:HIS:NE2	2.01	0.58
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.38	0.58
2:J:1317:ASN:HB3	2:J:1320:ALA:HB3	1.85	0.58
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.85	0.58
2:J:2044:THR:HG22	2:J:2046:LYS:H	1.68	0.58
2:J:462:ALA:H	2:J:483:ASP:HA	1.68	0.58
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.85	0.58
2:K:1370:LEU:HD12	2:K:1373:LEU:HD13	1.85	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.86	0.58
2:L:1709:TYR:C	2:L:1709:TYR:HD2	2.07	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.03	0.58
1:B:12:THR:O	1:B:16:GLU:HG2	2.03	0.58
1:B:350:ASP:HB3	1:B:353:ALA:HB2	1.84	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.86	0.58
1:C:1488:SER:HB3	1:F:1484:GLU:OE1	2.03	0.58
1:C:569:LEU:O	1:C:573:VAL:HG23	2.03	0.58
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.03	0.58
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.84	0.58
1:D:470:GLY:O	1:D:474:ILE:HG13	2.03	0.58
1:D:632:LEU:HA	1:D:635:ILE:CG2	2.33	0.58
1:D:70:ALA:O	2:L:403:LEU:HD12	2.03	0.58
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.69	0.58
1:F:911:LEU:O	1:F:915:MET:HG3	2.04	0.58
2:G:1637:VAL:HG11	2:G:1679:LEU:CD1	2.32	0.58
2:G:289:ILE:HG12	2:G:493:MET:CE	2.32	0.58
2:G:670:MET:HB2	2:G:674:ILE:HD12	1.84	0.58
2:G:882:LYS:HB3	2:G:898:ARG:HH12	1.69	0.58
2:H:351:LEU:HD22	2:H:352:SER:N	2.18	0.58
2:I:756:ASP:HA	2:I:843:TRP:HH2	1.69	0.58
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.39	0.58
2:J:485:ASP:O	2:J:488:PRO:HD2	2.03	0.58
2:J:670:MET:HB2	2:J:674:ILE:HD12	1.86	0.58
2:K:349:PRO:O	2:K:392:THR:HG22	2.03	0.58
2:K:529:ASN:HD22	2:K:552:VAL:HG23	1.68	0.58
2:K:798:THR:HA	2:K:802:TYR:O	2.02	0.58
2:L:1120:ILE:HG21	2:L:1167:ASN:HA	1.85	0.58
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.85	0.58
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.86	0.58
2:L:1701:GLU:H	2:L:1704:MET:HE3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.85	0.58
2:L:305:ALA:O	2:L:309:LYS:HD3	2.04	0.58
2:L:348:THR:HB	2:L:349:PRO:CD	2.34	0.58
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.33	0.58
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.38	0.58
1:D:339:GLN:O	1:D:343:ILE:HG13	2.04	0.58
1:D:418:ILE:HA	1:D:462:THR:HB	1.85	0.58
1:D:427:ARG:NH1	1:D:492:ILE:HG23	2.11	0.58
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.85	0.58
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.04	0.58
2:G:635:TYR:CB	2:G:641:MET:HG3	2.33	0.58
2:G:917:ARG:HD2	2:G:917:ARG:N	2.17	0.58
2:G:978:SER:O	2:G:981:GLN:HG2	2.03	0.58
2:H:1515:LEU:O	2:H:1523:ILE:HD12	2.03	0.58
2:H:1194:ARG:HH21	2:H:1601:ASN:CG	2.05	0.58
2:H:1674:THR:HB	2:H:1676:GLU:HG3	1.84	0.58
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.04	0.58
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.38	0.58
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.33	0.58
2:I:917:ARG:HH11	2:I:917:ARG:HG2	1.67	0.58
2:J:440:HIS:HD2	2:J:497:ASP:O	1.87	0.58
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.86	0.58
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.38	0.58
2:K:102:LEU:O	2:K:106:LEU:HG	2.03	0.58
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.03	0.58
2:K:1538:ASN:HB3	2:K:1541:ILE:HG22	1.85	0.58
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.85	0.58
2:K:786:GLU:H	2:K:786:GLU:CD	2.06	0.58
2:K:918:ASN:HB3	2:K:924:VAL:CG2	2.33	0.58
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.03	0.58
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.86	0.58
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.68	0.58
2:L:2021:LEU:O	2:L:2025:ILE:HG13	2.03	0.58
2:L:549:ASN:HD22	2:L:550:THR:N	2.02	0.58
1:A:1001:GLU:O	1:A:1007:ASN:HA	2.04	0.58
1:A:1491:ASN:H	1:A:1491:ASN:HD22	1.52	0.58
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.02	0.58
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	1.84	0.58
1:B:1443:LEU:HD11	1:B:1470:ARG:HD2	1.85	0.58
1:C:859:VAL:HG11	1:C:915:MET:HA	1.84	0.58
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.86	0.58
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.04	0.58
2:G:1674:THR:HB	2:G:1676:GLU:HG3	1.85	0.58
2:G:2005:PHE:HB3	2:G:2010:LEU:HD11	1.85	0.58
2:G:272:PRO:O	2:G:276:LEU:HB2	2.03	0.58
2:G:350:MET:HG3	2:G:435:ILE:HB	1.84	0.58
2:G:868:LEU:O	2:G:870:THR:HG23	2.03	0.58
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.85	0.58
2:H:917:ARG:HG2	2:H:917:ARG:HH11	1.65	0.58
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.85	0.58
2:I:1616:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.58
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.02	0.58
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.03	0.58
2:I:846:THR:HG22	2:I:856:THR:N	2.19	0.58
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.33	0.58
2:I:934:VAL:O	2:I:938:MET:HG3	2.04	0.58
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.85	0.58
2:K:1007:LEU:H	2:K:1007:LEU:CD1	2.15	0.58
2:K:1048:TRP:HE1	2:K:1049:GLN:HE21	1.50	0.58
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.26	0.58
2:K:1067:LEU:HB2	4:K:2101:FMN:HM71	1.85	0.58
2:L:35:PHE:HZ	2:L:104:LEU:HB3	1.69	0.58
2:L:1481:ILE:HD12	2:L:1515:LEU:HD23	1.85	0.58
2:L:289:ILE:HG12	2:L:493:MET:CE	2.32	0.58
2:L:420:PRO:HG3	2:L:847:TYR:CD1	2.38	0.58
1:A:1532:LYS:HE2	1:A:1598:VAL:HG11	1.85	0.58
1:A:628:TYR:CD1	1:A:628:TYR:C	2.77	0.58
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.18	0.58
1:B:636:TYR:CD1	1:B:888:ILE:HD11	2.39	0.58
1:C:1448:ALA:CA	1:C:1451:LYS:HE3	2.32	0.58
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.04	0.58
1:C:433:CYS:O	1:C:437:MET:HG3	2.03	0.58
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.86	0.58
1:E:613:PRO:C	1:E:615:LEU:H	2.05	0.58
1:F:427:ARG:HG3	1:F:427:ARG:NH1	2.01	0.58
2:G:1083:ILE:O	2:G:1086:ILE:HG13	2.04	0.58
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.39	0.58
2:H:785:SER:HA	2:H:788:THR:HB	1.86	0.58
2:H:876:TRP:C	2:H:876:TRP:CD1	2.76	0.58
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.17	0.58
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.84	0.58

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.19	0.57
1:A:1337:PRO:HA	1:A:1340:MET:HG3	1.87	0.57
1:B:828:TRP:HE1	1:B:838:THR:HA	1.69	0.57
1:C:427:ARG:HH11	1:C:492:ILE:HG12	1.69	0.57
1:C:562:SER:CB	1:D:551:LEU:HD21	2.32	0.57
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.03	0.57
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.40	0.57
1:D:869:ARG:O	1:D:903:GLY:HA3	2.04	0.57
1:E:1448:ALA:HA	1:E:1451:LYS:CE	2.32	0.57
1:E:696:GLN:HG3	1:E:697:GLY:N	2.18	0.57
1:F:948:HIS:O	1:F:952:TYR:HD2	1.86	0.57
2:G:1067:LEU:HB2	4:G:2101:FMN:HM71	1.85	0.57
2:G:756:ASP:HA	2:G:843:TRP:HH2	1.69	0.57
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.39	0.57
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.86	0.57
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.03	0.57
2:H:193:TYR:CD1	2:H:263:ILE:HD13	2.39	0.57
2:H:606:ALA:HB2	2:H:811:MET:HG3	1.86	0.57
2:I:596:ARG:HH22	2:I:1113:ILE:CD1	2.17	0.57
2:I:1265:TYR:O	2:I:1267:PRO:HD3	2.05	0.57
2:I:1436:ARG:NH2	2:I:1602:LEU:CD1	2.67	0.57
2:I:1669:ALA:HB3	2:I:1679:LEU:HB2	1.86	0.57
2:I:918:ASN:HB3	2:I:924:VAL:CG2	2.34	0.57
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.85	0.57
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.39	0.57
2:K:1142:ILE:HG13	2:K:1209:PRO:CG	2.33	0.57
2:K:1709:TYR:C	2:K:1709:TYR:HD2	2.08	0.57
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.85	0.57
2:L:1246:LEU:HD11	2:L:1261:PHE:HE1	1.70	0.57
2:L:1380:TYR:CD2	2:L:1429:VAL:HG22	2.39	0.57
2:L:1880:ASN:HB3	2:L:1881:TYR:CD1	2.39	0.57
2:L:663:ILE:HG21	3:L:2102:NAP:H1D	1.86	0.57
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.68	0.57
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.40	0.57
1:E:506:ILE:HD13	1:E:922:ILE:HG22	1.85	0.57
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.40	0.57
1:F:405:TRP:CZ3	1:F:1609:SER:HB3	2.39	0.57
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.69	0.57
1:F:418:ILE:HA	1:F:462:THR:HB	1.85	0.57
2:H:1334:ALA:HA	2:H:1341:ASP:HB2	1.87	0.57
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:610:PRO:O	2:H:613:VAL:HG12	2.03	0.57
2:H:616:ASP:N	2:H:616:ASP:OD1	2.37	0.57
2:J:1266:HIS:NE2	2:J:1275:ARG:HD2	2.19	0.57
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.15	0.57
2:J:894:GLU:O	2:J:897:LYS:HG2	2.03	0.57
2:K:1120:ILE:CD1	2:K:1173:HIS:CE1	2.86	0.57
2:K:152:LYS:HB2	2:K:154:TYR:CE1	2.40	0.57
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.68	0.57
2:L:1674:THR:HB	2:L:1676:GLU:HG3	1.86	0.57
2:L:298:ALA:CB	2:L:304:PHE:HA	2.34	0.57
2:L:361:VAL:O	2:L:365:ILE:HG13	2.03	0.57
2:L:524:ILE:HA	2:L:527:LEU:HD12	1.86	0.57
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.39	0.57
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.05	0.57
1:A:433:CYS:O	1:A:437:MET:HG3	2.04	0.57
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.87	0.57
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.40	0.57
1:E:350:ASP:HB3	1:E:353:ALA:HB2	1.85	0.57
1:E:524:LYS:O	1:E:527:ALA:N	2.37	0.57
1:E:948:HIS:O	1:E:952:TYR:HD2	1.87	0.57
1:E:959:PRO:HB3	2:K:972:SER:HA	1.87	0.57
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	1.85	0.57
2:G:1171:TRP:CD1	2:G:1172:ARG:N	2.72	0.57
2:G:1383:VAL:HG23	2:G:1428:TYR:CE1	2.40	0.57
2:G:388:ASN:HD22	2:G:388:ASN:C	2.06	0.57
2:H:1538:ASN:HB3	2:H:1541:ILE:HG22	1.86	0.57
2:I:361:VAL:O	2:I:365:ILE:HG13	2.05	0.57
2:J:1203:TYR:HB3	2:J:1220:ARG:HB2	1.87	0.57
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.87	0.57
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.40	0.57
2:K:745:GLY:HA3	2:K:757:PHE:HB3	1.85	0.57
2:K:825:SER:HB2	2:K:1053:ILE:HG13	1.86	0.57
2:K:834:ASP:O	2:K:836:PRO:HD3	2.04	0.57
2:K:978:SER:O	2:K:981:GLN:HG2	2.04	0.57
2:L:197:VAL:HG12	2:L:201:ILE:HG13	1.86	0.57
1:A:501:ASP:OD2	1:A:503:ARG:HB2	2.03	0.57
1:C:1267:LEU:HD11	1:C:1303:LEU:HD12	1.85	0.57
1:C:42:GLU:OE1	2:I:1688:PRO:HB3	2.04	0.57
1:D:452:ILE:HD12	1:D:467:LYS:HA	1.87	0.57
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.68	0.57
2:H:756:ASP:HA	2:H:843:TRP:HH2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:834:ASP:O	2:H:836:PRO:HD3	2.04	0.57
2:I:616:ASP:N	2:I:616:ASP:OD1	2.38	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.04	0.57
2:I:894:GLU:O	2:I:897:LYS:HG2	2.05	0.57
2:J:1171:TRP:CZ3	2:J:1236:LEU:HB2	2.40	0.57
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.04	0.57
2:J:875:PHE:O	2:J:878:GLU:HB2	2.04	0.57
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.57	0.57
2:K:209:GLN:O	2:K:213:ARG:HG3	2.05	0.57
2:L:1370:LEU:HA	2:L:1435:TYR:CE2	2.40	0.57
2:L:261:TYR:CD1	2:L:295:ILE:HG12	2.39	0.57
2:L:902:ILE:O	2:L:906:LEU:HB2	2.03	0.57
1:A:557:ARG:O	1:F:557:ARG:HD2	2.05	0.57
1:B:963:LEU:HD23	1:B:1023:GLU:HB3	1.86	0.57
1:C:1107:GLU:HG3	1:C:1108:PRO:CD	2.31	0.57
1:C:569:LEU:HD22	1:D:544:ASP:HB3	1.87	0.57
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.57
1:D:1448:ALA:CA	1:D:1451:LYS:HE3	2.32	0.57
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.35	0.57
1:F:501:ASP:OD2	1:F:503:ARG:HB2	2.04	0.57
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.18	0.57
2:G:1481:ILE:HD12	2:G:1515:LEU:HD23	1.87	0.57
2:H:1009:ASN:O	2:H:1013:VAL:HG23	2.04	0.57
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.40	0.57
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.85	0.57
2:H:532:LYS:HD3	2:H:537:VAL:HG21	1.86	0.57
2:H:731:ALA:HA	2:H:739:ILE:HD13	1.87	0.57
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.35	0.57
2:H:911:GLN:HG3	2:H:1064:THR:HA	1.87	0.57
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.86	0.57
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.18	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.39	0.57
2:K:1317:ASN:HB3	2:K:1320:ALA:HB3	1.86	0.57
2:K:1701:GLU:H	2:K:1704:MET:HE3	1.68	0.57
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.03	0.57
2:K:1944:ASN:HA	2:K:1993:PHE:CD2	2.40	0.57
2:K:221:TYR:CE2	2:K:225:LEU:HD22	2.39	0.57
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.87	0.57
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.87	0.57
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.86	0.57
1:A:684:THR:HG21	1:A:691:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:875:GLU:O	1:A:878:PHE:HB3	2.04	0.57
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.40	0.57
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.20	0.57
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.35	0.57
1:E:31:THR:HG23	2:K:2040:ILE:HG21	1.86	0.57
2:H:1194:ARG:NH1	2:H:1194:ARG:CG	2.54	0.57
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.87	0.57
2:H:1564:SER:HB2	2:H:1653:LEU:H	1.69	0.57
2:H:170:TYR:CZ	2:H:507:PHE:HB3	2.39	0.57
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.04	0.57
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.20	0.57
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.69	0.57
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	1.87	0.57
2:K:1009:ASN:O	2:K:1013:VAL:HG23	2.05	0.57
2:K:1176:PHE:CE1	2:K:1192:LEU:HD13	2.40	0.57
2:L:618:VAL:O	2:L:622:MET:HG3	2.05	0.57
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.04	0.57
1:A:551:LEU:HD23	1:A:551:LEU:C	2.25	0.57
1:A:948:HIS:O	1:A:952:TYR:HD2	1.88	0.57
1:B:847:THR:OG1	1:B:876:MET:HG3	2.04	0.57
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.86	0.57
1:D:948:HIS:O	1:D:952:TYR:HD2	1.88	0.57
1:E:1260:ALA:O	1:E:1264:MET:HG3	2.05	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB3	1.85	0.57
1:E:469:LEU:O	1:E:472:GLN:HB3	2.05	0.57
1:E:746:PHE:CE1	1:E:800:PRO:HG3	2.40	0.57
1:F:628:TYR:OH	1:F:630:LYS:HE2	2.05	0.57
1:F:399:TYR:OH	1:F:692:THR:HG23	2.04	0.57
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.40	0.57
2:G:1880:ASN:HB3	2:G:1881:TYR:CD1	2.40	0.57
2:H:1944:ASN:HA	2:H:1993:PHE:CD2	2.40	0.57
1:B:9:LEU:HB2	2:H:2050:ILE:HD11	1.86	0.57
2:H:349:PRO:O	2:H:392:THR:HG22	2.05	0.57
2:H:670:MET:HB2	2:H:674:ILE:HD12	1.86	0.57
2:H:843:TRP:CD1	2:H:843:TRP:C	2.78	0.57
2:I:1334:ALA:HA	2:I:1341:ASP:HB2	1.87	0.57
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.33	0.57
2:I:825:SER:HB2	2:I:1053:ILE:HG13	1.86	0.57
2:I:882:LYS:HB3	2:I:898:ARG:HH12	1.70	0.57
2:J:1142:ILE:HG13	2:J:1209:PRO:CG	2.35	0.57
2:J:170:TYR:CZ	2:J:507:PHE:HB3	2.40	0.57

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	2.04	0.56
1:B:904:GLY:HA2	1:B:906:GLN:OE1	2.06	0.56
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.86	0.56
1:C:868:VAL:HG11	1:C:908:ILE:CD1	2.34	0.56
1:C:849:GLY:HA3	1:C:873:GLN:CG	2.36	0.56
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.35	0.56
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	2.03	0.56
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.20	0.56
1:D:1443:LEU:HD11	1:D:1470:ARG:HD2	1.87	0.56
1:D:746:PHE:HB3	3:D:1901:NAP:H52N	1.87	0.56
1:F:1672:GLY:HA3	1:F:1678:LEU:CD2	2.31	0.56
1:F:746:PHE:HB3	3:F:1901:NAP:H52N	1.87	0.56
1:F:469:LEU:O	1:F:472:GLN:HB3	2.05	0.56
1:F:847:THR:OG1	1:F:876:MET:HG3	2.06	0.56
2:G:1171:TRP:CE3	2:G:1236:LEU:HD22	2.39	0.56
2:G:462:ALA:H	2:G:483:ASP:HA	1.69	0.56
2:G:768:ILE:O	2:G:774:ILE:HD12	2.05	0.56
2:G:785:SER:HA	2:G:788:THR:HB	1.87	0.56
2:H:1171:TRP:CE3	2:H:1236:LEU:HD22	2.39	0.56
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.53	0.56
2:H:43:PHE:CE2	2:I:22:ARG:CB	2.87	0.56
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	1.87	0.56
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.60	0.56
2:I:635:TYR:CB	2:I:641:MET:HG3	2.34	0.56
2:I:606:ALA:HB2	2:I:811:MET:HG3	1.85	0.56
2:J:1334:ALA:HA	2:J:1341:ASP:HB2	1.87	0.56
2:J:378:ILE:HD11	2:J:398:LEU:HA	1.86	0.56
2:J:612:THR:O	2:J:612:THR:HG22	2.05	0.56
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.35	0.56
2:K:1804:GLN:HB3	2:K:1861:PHE:CE1	2.40	0.56
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.87	0.56
2:K:882:LYS:HB3	2:K:898:ARG:NH1	2.21	0.56
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.40	0.56
2:L:380:ILE:O	2:L:380:ILE:HG13	2.05	0.56
2:L:756:ASP:HA	2:L:843:TRP:HH2	1.70	0.56
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.87	0.56
1:D:24:MET:HB3	2:J:2043:VAL:HG12	1.86	0.56
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.35	0.56
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.86	0.56
2:G:911:GLN:HG3	2:G:1064:THR:HA	1.87	0.56
2:G:1878:ARG:HE	2:G:1986:PRO:HG3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.88	0.56
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.20	0.56
2:G:349:PRO:O	2:G:392:THR:HG22	2.04	0.56
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.05	0.56
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.20	0.56
2:H:1963:GLU:HA	2:H:1966:ARG:HB3	1.88	0.56
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.40	0.56
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.86	0.56
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.20	0.56
2:J:486:ILE:HG23	2:J:490:LEU:HG	1.87	0.56
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.88	0.56
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.20	0.56
2:K:268:LEU:HD12	2:K:275:LEU:HD11	1.87	0.56
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.35	0.56
2:L:196:PHE:HD2	2:L:196:PHE:H	1.53	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:HD2	1.69	0.56
2:L:290:VAL:HG13	2:L:314:LEU:HD23	1.87	0.56
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.35	0.56
2:L:731:ALA:HA	2:L:739:ILE:HD13	1.88	0.56
1:A:911:LEU:O	1:A:915:MET:HG3	2.06	0.56
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.06	0.56
1:B:408:GLN:HG2	1:B:1610:ARG:NH1	2.19	0.56
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.40	0.56
1:B:862:GLY:O	1:B:865:LYS:HB2	2.06	0.56
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.58	0.56
1:E:1448:ALA:CA	1:E:1451:LYS:HE3	2.34	0.56
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.36	0.56
1:F:1307:PHE:HB3	1:F:1357:CYS:CB	2.36	0.56
2:G:1610:MET:CE	2:G:1610:MET:HA	2.34	0.56
2:G:1607:THR:HB	2:G:1643:VAL:O	2.05	0.56
2:G:613:VAL:HG13	2:G:614:PRO:CD	2.35	0.56
2:G:843:TRP:CD1	2:G:843:TRP:C	2.77	0.56
2:H:1207:THR:O	2:H:1215:THR:HA	2.04	0.56
2:H:1203:TYR:HB3	2:H:1220:ARG:HB2	1.88	0.56
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.05	0.56
2:H:372:LEU:HD11	2:H:397:SER:HB2	1.87	0.56
2:H:635:TYR:CB	2:H:641:MET:HG3	2.35	0.56
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.05	0.56
2:I:209:GLN:O	2:I:213:ARG:HG3	2.05	0.56
2:J:731:ALA:HA	2:J:739:ILE:HD13	1.88	0.56
2:K:1171:TRP:CZ3	2:K:1236:LEU:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1880:ASN:HB3	2:K:1881:TYR:CD1	2.40	0.56
2:K:378:ILE:HD11	2:K:398:LEU:HA	1.88	0.56
2:K:451:ILE:O	2:K:455:VAL:HG23	2.05	0.56
2:K:524:ILE:HA	2:K:527:LEU:HD12	1.86	0.56
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.41	0.56
2:K:700:GLU:CD	2:K:700:GLU:H	2.08	0.56
2:K:992:ALA:O	2:K:995:ARG:HB3	2.05	0.56
2:L:1207:THR:O	2:L:1215:THR:HA	2.05	0.56
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.88	0.56
1:A:1132:ILE:HD12	1:A:1137:GLN:HB2	1.87	0.56
1:A:1386:THR:HG22	1:A:1629:GLN:HE21	1.70	0.56
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.20	0.56
1:A:843:VAL:O	1:A:843:VAL:HG22	2.05	0.56
1:C:408:GLN:HG2	1:C:1610:ARG:NH1	2.20	0.56
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.40	0.56
1:D:1565:PRO:O	1:D:1567:GLY:N	2.39	0.56
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.40	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.27	0.56
2:G:1701:GLU:H	2:G:1704:MET:HE3	1.68	0.56
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.20	0.56
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.87	0.56
2:H:1246:LEU:HD11	2:H:1261:PHE:HE1	1.70	0.56
2:H:1607:THR:HB	2:H:1643:VAL:O	2.05	0.56
2:H:221:TYR:CE2	2:H:225:LEU:HD22	2.40	0.56
2:I:1171:TRP:CE3	2:I:1236:LEU:HD22	2.40	0.56
2:I:876:TRP:CD1	2:I:876:TRP:C	2.79	0.56
2:J:1083:ILE:O	2:J:1086:ILE:HG13	2.05	0.56
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.39	0.56
2:J:611:THR:HG21	2:J:817:MET:HE2	1.86	0.56
2:J:663:ILE:CD1	2:J:663:ILE:H	2.12	0.56
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.86	0.56
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.36	0.56
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.85	0.56
2:K:752:HIS:CE1	2:K:856:THR:HG21	2.40	0.56
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.86	0.56
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.40	0.56
2:L:1266:HIS:NE2	2:L:1275:ARG:HD2	2.20	0.56
2:L:653:PRO:O	2:L:656:ARG:HB2	2.05	0.56
2:L:699:ILE:CD1	2:L:699:ILE:H	2.19	0.56
1:A:1307:PHE:HB3	1:A:1357:CYS:HB3	1.86	0.56
1:B:470:GLY:O	1:B:474:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.70	0.56
1:C:504:GLY:O	1:C:926:SER:HB2	2.06	0.56
1:D:571:LYS:O	1:D:575:ARG:HG2	2.05	0.56
1:E:911:LEU:O	1:E:915:MET:HG3	2.06	0.56
1:F:888:ILE:HA	1:F:891:LEU:HD12	1.87	0.56
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.58	0.56
2:G:1207:THR:O	2:G:1215:THR:HA	2.05	0.56
2:G:1265:TYR:O	2:G:1267:PRO:HD3	2.05	0.56
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.87	0.56
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.40	0.56
2:G:616:ASP:N	2:G:616:ASP:OD1	2.37	0.56
2:H:1880:ASN:HB3	2:H:1881:TYR:CD1	2.40	0.56
1:B:20:TYR:CE2	2:H:2062:THR:HG23	2.41	0.56
2:H:859:SER:CB	2:H:863:GLU:HG3	2.36	0.56
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.06	0.56
2:I:1607:THR:HB	2:I:1643:VAL:O	2.06	0.56
2:I:261:TYR:CD1	2:I:295:ILE:HG12	2.41	0.56
2:I:440:HIS:HD2	2:I:497:ASP:O	1.87	0.56
2:I:532:LYS:HD3	2:I:537:VAL:HG21	1.88	0.56
2:I:735:PRO:HA	2:I:773:ASN:OD1	2.06	0.56
2:J:138:ARG:HB2	2:J:192:THR:HA	1.87	0.56
2:J:159:PHE:HA	2:J:162:ALA:HB3	1.87	0.56
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.35	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.21	0.56
2:J:861:MET:HB2	2:J:863:GLU:HG2	1.87	0.56
2:K:1194:ARG:NH1	2:K:1194:ARG:CG	2.52	0.56
2:K:290:VAL:HG13	2:K:314:LEU:HD23	1.88	0.56
2:K:843:TRP:C	2:K:843:TRP:CD1	2.79	0.56
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.52	0.56
2:L:462:ALA:H	2:L:483:ASP:HA	1.69	0.56
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.40	0.56
1:A:12:THR:O	1:A:16:GLU:HG2	2.06	0.56
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.41	0.56
1:A:755:GLU:HB2	1:A:757:ASP:HB2	1.88	0.56
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.06	0.56
1:B:1443:LEU:HD22	1:B:1474:ILE:HD11	1.88	0.56
1:B:948:HIS:O	1:B:952:TYR:HD2	1.89	0.56
1:C:498:THR:HG21	1:C:858:LEU:CA	2.31	0.56
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.41	0.56
1:C:673:LEU:O	1:C:678:ALA:HB3	2.06	0.56
1:E:1207:TYR:CE2	1:E:1682:LYS:HD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1100:VAL:HG21	1:F:1150:ILE:CD1	2.36	0.56
2:H:1142:ILE:HG13	2:H:1209:PRO:CG	2.35	0.56
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.06	0.56
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.40	0.56
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.35	0.56
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.87	0.56
2:H:613:VAL:HG23	2:H:635:TYR:CE1	2.41	0.56
2:I:1142:ILE:HG13	2:I:1209:PRO:CG	2.36	0.56
2:I:1729:ASN:O	2:I:1757:ILE:HG23	2.06	0.56
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.05	0.56
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.05	0.56
2:I:350:MET:HG3	2:I:435:ILE:HB	1.88	0.56
2:I:611:THR:HG21	2:I:817:MET:HE2	1.88	0.56
2:I:768:ILE:O	2:I:774:ILE:HD12	2.05	0.56
2:J:1342:PHE:HE2	2:J:1391:VAL:CG2	2.19	0.56
2:J:1420:LYS:HG2	2:J:1425:PRO:CA	2.35	0.56
2:J:489:GLU:O	2:J:493:MET:HG3	2.05	0.56
2:K:35:PHE:HZ	2:K:104:LEU:HB3	1.70	0.56
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.40	0.56
2:L:1176:PHE:CE1	2:L:1192:LEU:HD13	2.41	0.56
2:L:1421:ARG:HG2	2:L:1421:ARG:O	2.04	0.56
2:L:992:ALA:O	2:L:995:ARG:HB3	2.05	0.56
1:A:989:ASN:H	1:A:1491:ASN:ND2	1.94	0.56
1:B:983:GLN:HB3	1:B:1418:ILE:HG21	1.86	0.56
1:C:1207:TYR:CZ	1:C:1682:LYS:HD2	2.41	0.56
1:C:1337:PRO:HA	1:C:1340:MET:HG3	1.88	0.56
1:C:1386:THR:HB	1:F:1269:SER:O	2.05	0.56
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.88	0.56
1:C:847:THR:OG1	1:C:876:MET:HG3	2.06	0.56
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.39	0.56
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.19	0.56
1:A:1153:ALA:O	1:E:1121:ARG:NH1	2.39	0.56
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.88	0.56
1:E:628:TYR:CD1	1:E:628:TYR:C	2.78	0.56
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.41	0.56
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.71	0.56
1:F:628:TYR:CD1	1:F:628:TYR:C	2.79	0.56
2:G:1653:LEU:CD2	2:G:1667:VAL:HG13	2.36	0.56
2:G:197:VAL:HG12	2:G:201:ILE:HG13	1.87	0.56
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.69	0.56
2:H:1497:ARG:O	2:H:1505:SER:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1709:TYR:HD2	2:H:1709:TYR:C	2.08	0.56
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.88	0.56
2:H:350:MET:HG3	2:H:435:ILE:HB	1.88	0.56
2:I:1207:THR:O	2:I:1215:THR:HA	2.06	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.87	0.56
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.71	0.56
2:J:1370:LEU:HA	2:J:1435:TYR:CE2	2.41	0.56
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.87	0.56
2:J:843:TRP:C	2:J:843:TRP:CD1	2.78	0.56
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.21	0.56
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.05	0.56
2:K:1944:ASN:HA	2:K:1993:PHE:HD2	1.71	0.56
2:K:1946:LEU:HB3	2:K:1951:ILE:HD11	1.88	0.56
2:K:595:SER:HB3	2:K:602:PRO:CD	2.35	0.56
2:K:756:ASP:HA	2:K:843:TRP:HH2	1.71	0.56
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.36	0.56
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.68	0.56
2:L:917:ARG:HD3	2:L:937:ARG:CZ	2.36	0.56
1:A:498:THR:HG21	1:A:858:LEU:CA	2.34	0.56
1:A:88:ILE:HG21	2:G:1821:MET:CE	2.36	0.56
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.66	0.56
1:B:673:LEU:O	1:B:678:ALA:HB3	2.06	0.56
1:C:1017:TYR:HD1	1:C:1017:TYR:N	2.04	0.56
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.71	0.56
1:D:1120:LYS:HD3	1:D:1129:ILE:HG12	1.87	0.56
1:E:828:TRP:HE1	1:E:838:THR:HA	1.71	0.56
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.86	0.56
1:F:1425:LEU:HD21	1:F:1429:ARG:NH2	2.20	0.56
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.86	0.56
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.06	0.56
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.36	0.56
2:G:663:ILE:H	2:G:663:ILE:CD1	2.14	0.56
2:H:1265:TYR:O	2:H:1267:PRO:HD3	2.05	0.56
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.21	0.56
2:H:1944:ASN:HA	2:H:1993:PHE:HD2	1.70	0.56
2:H:298:ALA:HB2	2:H:304:PHE:HA	1.88	0.56
2:H:745:GLY:HA3	2:H:757:PHE:HB3	1.86	0.56
2:I:1009:ASN:O	2:I:1013:VAL:HG23	2.05	0.56
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.36	0.56
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.88	0.56
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:911:GLN:HG3	2:J:1064:THR:HA	1.87	0.56
2:J:1880:ASN:HB3	2:J:1881:TYR:CD1	2.40	0.56
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.33	0.56
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.21	0.56
2:J:745:GLY:HA3	2:J:757:PHE:HB3	1.86	0.56
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	2.94	0.56
2:K:1383:VAL:HG23	2:K:1428:TYR:CE1	2.40	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD13	1.70	0.56
2:K:604:MET:HE1	2:K:811:MET:HB2	1.87	0.56
2:L:1234:ILE:HG12	2:L:1244:LEU:HD13	1.87	0.56
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.35	0.56
2:L:228:LEU:O	2:L:232:HIS:HD2	1.88	0.56
2:L:699:ILE:HD12	2:L:699:ILE:N	2.19	0.56
2:L:745:GLY:HA3	2:L:757:PHE:HB3	1.87	0.56
2:L:875:PHE:O	2:L:878:GLU:HB2	2.06	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.38	0.56
1:A:1700:GLN:O	1:A:1702:ARG:HG3	2.06	0.56
1:C:1443:LEU:HD11	1:C:1470:ARG:HD2	1.88	0.56
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.70	0.56
1:C:948:HIS:O	1:C:952:TYR:HD2	1.89	0.56
1:D:1307:PHE:HB3	1:D:1357:CYS:CB	2.36	0.56
1:D:613:PRO:O	1:D:615:LEU:N	2.37	0.56
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.86	0.56
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.88	0.56
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.41	0.56
2:H:197:VAL:HG12	2:H:201:ILE:HG13	1.87	0.56
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.41	0.56
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.71	0.56
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.58	0.56
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.88	0.56
2:I:731:ALA:HA	2:I:739:ILE:HD13	1.88	0.56
2:I:785:SER:HA	2:I:788:THR:HB	1.88	0.56
2:I:83:VAL:O	2:I:87:VAL:HG23	2.05	0.56
2:J:1701:GLU:H	2:J:1704:MET:HE3	1.70	0.56
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.87	0.56
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.87	0.56
1:E:22:PHE:O	2:K:2006:HIS:HA	2.06	0.56
2:L:1342:PHE:HE2	2:L:1391:VAL:CG2	2.19	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.41	0.56
2:L:505:THR:O	2:L:505:THR:HG22	2.06	0.56
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:ILE:HG23	1:A:1352:MET:HE3	1.88	0.55
1:A:1451:LYS:HE2	1:A:1463:GLU:OE2	2.06	0.55
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.55
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.88	0.55
1:D:1260:ALA:O	1:D:1264:MET:HG3	2.06	0.55
1:D:959:PRO:HG2	2:J:974:GLU:HG3	1.88	0.55
2:G:1851:MET:HE2	2:G:1855:SER:HB3	1.87	0.55
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.70	0.55
2:G:329:THR:HG22	2:H:1331:THR:O	2.05	0.55
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.87	0.55
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.46	0.55
2:H:1083:ILE:O	2:H:1086:ILE:HG13	2.06	0.55
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.88	0.55
2:H:1436:ARG:NH2	2:H:1602:LEU:HD11	2.22	0.55
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.05	0.55
2:H:21:LEU:HA	2:H:37:VAL:O	2.05	0.55
2:H:818:THR:HG22	2:H:829:LYS:CB	2.35	0.55
2:H:820:LYS:HG3	2:H:821:GLU:HG2	1.88	0.55
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.36	0.55
2:J:1067:LEU:HB2	4:J:2101:FMN:C7M	2.35	0.55
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.06	0.55
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	1.88	0.55
2:J:605:VAL:CB	2:J:628:ILE:HG13	2.33	0.55
2:K:663:ILE:H	2:K:663:ILE:CD1	2.13	0.55
2:K:796:TRP:HH2	2:K:805:MET:HE1	1.69	0.55
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.59	0.55
2:L:1411:LYS:HE3	2:L:1441:ASP:OD2	2.06	0.55
2:L:152:LYS:HB2	2:L:154:TYR:CE1	2.41	0.55
1:A:1448:ALA:HA	1:A:1451:LYS:CE	2.34	0.55
1:A:1447:VAL:CG2	1:A:1467:LEU:HD21	2.35	0.55
1:A:452:ILE:HD12	1:A:467:LYS:HA	1.87	0.55
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	2.04	0.55
1:B:1672:GLY:HA3	1:B:1678:LEU:CD2	2.29	0.55
1:B:501:ASP:OD2	1:B:503:ARG:HB2	2.07	0.55
1:C:1491:ASN:HD22	1:C:1491:ASN:H	1.54	0.55
1:C:1532:LYS:HE2	1:C:1598:VAL:HG11	1.88	0.55
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.89	0.55
1:D:498:THR:HG21	1:D:858:LEU:CA	2.34	0.55
1:D:399:TYR:OH	1:D:692:THR:HG23	2.06	0.55
2:G:1048:TRP:CD2	2:G:1049:GLN:HG2	2.39	0.55
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.20	0.55
2:G:524:ILE:HA	2:G:527:LEU:HD12	1.87	0.55
2:H:289:ILE:HG12	2:H:493:MET:CE	2.35	0.55
2:H:930:THR:CG2	2:H:933:GLU:HG3	2.35	0.55
2:I:1046:SER:O	2:I:1049:GLN:HG3	2.06	0.55
2:I:102:LEU:O	2:I:106:LEU:HG	2.06	0.55
2:I:372:LEU:HD11	2:I:397:SER:HB2	1.88	0.55
2:J:1265:TYR:O	2:J:1267:PRO:HD3	2.05	0.55
2:J:372:LEU:HD11	2:J:397:SER:HB2	1.88	0.55
2:K:172:ILE:HG22	2:K:514:VAL:O	2.07	0.55
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.41	0.55
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.22	0.55
2:K:656:ARG:NH1	2:K:656:ARG:HG2	2.21	0.55
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.06	0.55
2:L:1009:ASN:O	2:L:1013:VAL:HG23	2.07	0.55
2:L:462:ALA:N	2:L:483:ASP:HA	2.21	0.55
2:L:618:VAL:HG11	2:L:648:ILE:HD11	1.87	0.55
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.72	0.55
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.06	0.55
1:B:985:ARG:HB3	1:B:1422:ARG:HH22	1.71	0.55
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.88	0.55
1:C:1700:GLN:O	1:C:1702:ARG:HG3	2.06	0.55
1:C:336:PHE:O	1:C:339:GLN:HB2	2.05	0.55
1:C:535:TYR:OH	1:C:630:LYS:HE3	2.06	0.55
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.87	0.55
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.06	0.55
1:D:875:GLU:O	1:D:878:PHE:HB3	2.06	0.55
1:D:888:ILE:HA	1:D:891:LEU:HD12	1.88	0.55
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.71	0.55
1:F:1267:LEU:HD11	1:F:1303:LEU:HD12	1.88	0.55
2:G:1411:LYS:HE3	2:G:1441:ASP:OD2	2.07	0.55
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.35	0.55
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.38	0.55
2:H:261:TYR:CD1	2:H:295:ILE:HG12	2.41	0.55
2:H:460:ILE:O	2:H:486:ILE:HB	2.07	0.55
2:H:611:THR:HG21	2:H:817:MET:HE2	1.87	0.55
2:H:861:MET:HB2	2:H:863:GLU:HG2	1.89	0.55
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.41	0.55
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.06	0.55
2:I:1342:PHE:HE2	2:I:1391:VAL:CG2	2.20	0.55
2:I:1885:ALA:HB2	2:I:1998:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:26:LEU:O	2:I:32:GLU:HA	2.06	0.55
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.74	0.55
2:J:1171:TRP:CE3	2:J:1236:LEU:HD22	2.41	0.55
2:J:451:ILE:O	2:J:455:VAL:HG23	2.06	0.55
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.37	0.55
2:K:1334:ALA:HA	2:K:1341:ASP:HB2	1.89	0.55
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.06	0.55
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.36	0.55
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.41	0.55
2:L:1890:ARG:HB3	2:L:1994:ALA:HB2	1.88	0.55
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.87	0.55
1:A:1164:ILE:HD12	1:A:1355:GLN:HG3	1.87	0.55
1:A:1183:VAL:HG13	1:A:1252:GLU:OE1	2.07	0.55
1:B:1001:GLU:HG2	1:B:1008:ALA:HB2	1.89	0.55
1:B:1495:ARG:HG2	1:B:1495:ARG:HH11	1.71	0.55
1:B:498:THR:HG21	1:B:858:LEU:CA	2.35	0.55
1:C:1672:GLY:HA3	1:C:1678:LEU:CD2	2.33	0.55
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.07	0.55
1:D:868:VAL:CG1	1:D:908:ILE:HD11	2.35	0.55
1:E:1113:LYS:HG3	1:E:1138:TYR:CE2	2.41	0.55
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.71	0.55
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.34	0.55
1:E:987:MET:O	1:E:1490:GLY:HA3	2.07	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
1:C:1317:GLU:HB3	1:F:1250:LEU:HD22	1.89	0.55
1:F:843:VAL:HG22	1:F:843:VAL:O	2.05	0.55
2:G:102:LEU:O	2:G:106:LEU:HG	2.07	0.55
2:G:604:MET:HE1	2:G:811:MET:HB2	1.89	0.55
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.70	0.55
2:H:462:ALA:N	2:H:483:ASP:HA	2.21	0.55
2:I:1028:VAL:HG13	2:I:1030:PHE:CD2	2.42	0.55
2:I:1420:LYS:HG2	2:I:1425:PRO:CA	2.35	0.55
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.42	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.37	0.55
2:I:349:PRO:O	2:I:392:THR:HG22	2.05	0.55
2:J:1194:ARG:NH1	2:J:1194:ARG:CG	2.51	0.55
2:J:1383:VAL:HG23	2:J:1428:TYR:CE1	2.39	0.55
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.78	0.55
2:J:261:TYR:CD1	2:J:295:ILE:HG12	2.42	0.55
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.88	0.55
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:532:LYS:HD3	2:K:537:VAL:HG21	1.87	0.55
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.89	0.55
2:L:1224:GLN:HA	2:L:1224:GLN:OE1	2.07	0.55
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.41	0.55
2:L:1445:THR:CG2	2:L:1498:PHE:HB2	2.37	0.55
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.37	0.55
2:L:529:ASN:HD22	2:L:552:VAL:HG23	1.72	0.55
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.25	0.55
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.89	0.55
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.22	0.55
1:B:868:VAL:HG11	1:B:908:ILE:CD1	2.35	0.55
1:C:527:ALA:HB2	1:C:637:LEU:HD22	1.89	0.55
1:D:1207:TYR:CZ	1:D:1682:LYS:HD2	2.41	0.55
1:E:1447:VAL:CG2	1:E:1467:LEU:HD21	2.32	0.55
1:F:1120:LYS:HD3	1:F:1129:ILE:HG12	1.88	0.55
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.39	0.55
1:C:1499:ARG:CD	1:F:1476:ARG:HH12	2.11	0.55
2:G:818:THR:HG22	2:G:829:LYS:CB	2.32	0.55
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.37	0.55
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.36	0.55
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.37	0.55
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.41	0.55
2:I:1436:ARG:NH2	2:I:1602:LEU:HD11	2.22	0.55
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.88	0.55
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.37	0.55
2:I:745:GLY:HA3	2:I:757:PHE:HB3	1.88	0.55
2:J:2062:THR:HG22	2:J:2064:SER:N	2.20	0.55
2:J:290:VAL:HG13	2:J:314:LEU:HD23	1.87	0.55
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.88	0.55
2:K:609:THR:CG2	2:K:633:GLY:HA3	2.36	0.55
2:J:1338:ARG:HH21	2:L:327:PRO:CD	2.19	0.55
2:L:378:ILE:HD11	2:L:398:LEU:HA	1.89	0.55
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.36	0.55
2:L:776:LEU:HG	2:L:807:PHE:CE2	2.42	0.55
1:B:1451:LYS:HA	1:B:1454:ARG:NH2	2.20	0.55
1:C:1164:ILE:HD12	1:C:1355:GLN:HG3	1.88	0.55
1:D:768:ARG:HA	1:D:772:THR:OG1	2.07	0.55
1:E:1129:ILE:HA	1:E:1139:THR:O	2.07	0.55
1:E:1363:MET:HE3	1:E:1368:ALA:HB2	1.88	0.55
1:F:1113:LYS:HG3	1:F:1138:TYR:CE2	2.41	0.55
1:F:565:GLN:HG2	1:F:565:GLN:O	2.07	0.55

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1725:HIS:CD2	2:I:1854:GLU:HB3	2.42	0.55
2:I:2062:THR:HG22	2:I:2064:SER:N	2.22	0.55
2:I:501:TRP:HE1	2:I:528:THR:CG2	2.14	0.55
2:I:776:LEU:HG	2:I:807:PHE:CE2	2.41	0.55
2:I:992:ALA:O	2:I:995:ARG:HB3	2.06	0.55
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.89	0.55
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.06	0.55
2:J:700:GLU:CD	2:J:700:GLU:H	2.10	0.55
2:K:1224:GLN:OE1	2:K:1224:GLN:HA	2.07	0.55
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.88	0.55
2:K:966:VAL:O	2:K:970:PHE:HD1	1.90	0.55
2:L:1248:GLU:HA	2:L:1248:GLU:OE1	2.06	0.55
2:L:486:ILE:HG23	2:L:490:LEU:HG	1.89	0.55
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.89	0.54
1:A:746:PHE:CD2	3:A:1901:NAP:H4D	2.43	0.54
1:C:40:ARG:NH2	1:C:72:THR:HG22	2.21	0.54
1:C:617:LEU:N	1:C:617:LEU:HD23	2.21	0.54
1:C:628:TYR:C	1:C:628:TYR:CD1	2.79	0.54
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.71	0.54
1:D:36:LEU:HD22	1:D:61:LEU:HD21	1.89	0.54
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.37	0.54
1:E:1703:VAL:HG22	1:E:1713:PHE:N	2.22	0.54
1:E:415:TYR:O	1:E:419:PHE:HD1	1.89	0.54
1:E:875:GLU:O	1:E:878:PHE:HB3	2.06	0.54
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.08	0.54
2:G:1616:VAL:HG11	2:G:1679:LEU:CD1	2.33	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD2	2.42	0.54
2:G:613:VAL:HG23	2:G:635:TYR:CE1	2.42	0.54
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	1.88	0.54
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.60	0.54
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.70	0.54
2:J:192:THR:C	2:J:194:PRO:HD3	2.27	0.54
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.88	0.54
2:J:618:VAL:HG11	2:J:648:ILE:HD11	1.89	0.54
2:J:750:GLY:O	2:J:865:ILE:HA	2.07	0.54
2:K:1293:TRP:NE1	2:K:1354:TRP:HZ2	2.05	0.54
2:K:1481:ILE:HD12	2:K:1515:LEU:HD23	1.88	0.54
2:K:1878:ARG:HE	2:K:1986:PRO:HG3	1.73	0.54
1:E:24:MET:HB3	2:K:2043:VAL:HG12	1.89	0.54
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.88	0.54
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:379:GLY:O	2:K:391:VAL:HG13	2.07	0.54
2:L:126:VAL:HG12	2:L:127:ALA:H	1.73	0.54
2:L:1344:ALA:N	2:L:1389:LEU:O	2.36	0.54
2:L:35:PHE:HD2	2:L:37:VAL:HG22	1.72	0.54
1:A:1267:LEU:HD11	1:A:1303:LEU:HD12	1.87	0.54
1:A:1697:LEU:HD21	1:E:1401:LEU:HD22	1.88	0.54
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.34	0.54
1:D:1686:PRO:HB2	1:D:1713:PHE:CD1	2.42	0.54
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.07	0.54
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.42	0.54
1:F:983:GLN:HB3	1:F:1418:ILE:HG21	1.88	0.54
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.43	0.54
1:F:498:THR:HG21	1:F:858:LEU:CA	2.37	0.54
1:F:673:LEU:O	1:F:678:ALA:HB3	2.07	0.54
2:G:172:ILE:HG22	2:G:514:VAL:O	2.06	0.54
2:G:83:VAL:O	2:G:87:VAL:HG23	2.08	0.54
2:H:1028:VAL:HG13	2:H:1030:PHE:CD2	2.43	0.54
2:H:451:ILE:O	2:H:455:VAL:HG23	2.06	0.54
2:H:611:THR:HA	2:H:1051:GLU:OE2	2.06	0.54
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.72	0.54
2:H:888:ARG:O	2:H:891:ARG:HB2	2.07	0.54
2:H:92:GLU:HB3	2:H:95:HIS:NE2	2.21	0.54
2:I:1026:LYS:HE2	2:I:1045:ASP:OD2	2.08	0.54
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.42	0.54
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	2.23	0.54
2:J:1746:THR:CB	2:J:1792:THR:HG23	2.35	0.54
2:J:762:LEU:HD11	2:J:800:PHE:CD2	2.42	0.54
2:J:882:LYS:HB3	2:J:898:ARG:HH12	1.73	0.54
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.43	0.54
2:K:192:THR:C	2:K:194:PRO:HD3	2.27	0.54
2:K:361:VAL:O	2:K:365:ILE:HG13	2.07	0.54
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.24	0.54
2:K:719:GLY:O	2:K:755:GLU:HG3	2.08	0.54
2:L:1607:THR:HB	2:L:1643:VAL:O	2.07	0.54
2:L:1804:GLN:HB3	2:L:1861:PHE:CE1	2.43	0.54
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.23	0.54
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.33	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.24	0.54
2:L:785:SER:HA	2:L:788:THR:HB	1.87	0.54
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.90	0.54
1:A:36:LEU:HD22	1:A:61:LEU:HD21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:PRO:O	1:A:615:LEU:N	2.35	0.54
1:B:549:TYR:HE1	1:B:567:ASN:HB3	1.73	0.54
1:E:1584:GLY:HA2	1:E:1617:ILE:CD1	2.38	0.54
1:F:1079:ARG:NH1	1:F:1079:ARG:HG2	2.07	0.54
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.08	0.54
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.42	0.54
1:C:1401:LEU:HD22	1:F:1697:LEU:HD21	1.89	0.54
1:F:427:ARG:HG3	1:F:492:ILE:HG12	1.89	0.54
1:F:526:MET:HE3	1:F:614:PHE:HB2	1.89	0.54
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.89	0.54
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.73	0.54
2:G:653:PRO:O	2:G:656:ARG:HB2	2.07	0.54
2:G:745:GLY:HA3	2:G:757:PHE:HB3	1.88	0.54
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.34	0.54
2:H:1086:ILE:O	2:H:1090:ILE:HG13	2.07	0.54
2:H:1299:VAL:HG22	2:H:1301:PHE:CD1	2.43	0.54
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.88	0.54
2:H:1653:LEU:CD2	2:H:1667:VAL:HG13	2.38	0.54
2:H:26:LEU:O	2:H:32:GLU:HA	2.08	0.54
2:I:1377:SER:HB3	2:I:1432:GLN:HB2	1.90	0.54
2:I:422:THR:HG23	2:I:844:GLU:CD	2.28	0.54
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.88	0.54
2:J:1885:ALA:HB2	2:J:1998:LEU:HD21	1.89	0.54
2:J:465:LEU:HB2	2:J:479:ARG:HG3	1.90	0.54
2:J:876:TRP:C	2:J:876:TRP:CD1	2.81	0.54
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.88	0.54
2:K:159:PHE:HA	2:K:162:ALA:HB3	1.89	0.54
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.89	0.54
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.43	0.54
2:K:762:LEU:HD11	2:K:800:PHE:CD2	2.43	0.54
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.34	0.54
2:K:859:SER:CB	2:K:863:GLU:HG3	2.36	0.54
2:L:1564:SER:HB2	2:L:1653:LEU:H	1.73	0.54
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.08	0.54
2:L:938:MET:HE2	2:L:959:THR:HG22	1.90	0.54
1:A:1211:LYS:HE3	1:A:1711:LEU:HD21	1.89	0.54
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.21	0.54
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.08	0.54
1:B:1532:LYS:HE2	1:B:1598:VAL:HG11	1.89	0.54
1:C:768:ARG:HA	1:C:772:THR:OG1	2.08	0.54
1:C:868:VAL:CG1	1:C:908:ILE:HD11	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:VAL:HG12	1:D:1711:LEU:HD22	1.90	0.54
1:F:904:GLY:HA2	1:F:906:GLN:OE1	2.08	0.54
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.07	0.54
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.88	0.54
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.08	0.54
2:G:35:PHE:CD2	2:G:37:VAL:HG22	2.42	0.54
2:G:824:THR:HB	2:G:829:LYS:HE3	1.89	0.54
2:H:1317:ASN:HB3	2:H:1320:ALA:HB3	1.90	0.54
2:H:152:LYS:HB2	2:H:154:TYR:CE1	2.42	0.54
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.37	0.54
2:I:663:ILE:HG21	3:I:2102:NAP:H1D	1.89	0.54
2:I:228:LEU:O	2:I:232:HIS:HD2	1.90	0.54
2:I:505:THR:O	2:I:505:THR:HG22	2.08	0.54
2:J:1607:THR:HB	2:J:1643:VAL:O	2.06	0.54
1:D:88:ILE:HG21	2:J:1821:MET:HE2	1.90	0.54
2:J:268:LEU:HD12	2:J:275:LEU:HD11	1.90	0.54
2:J:409:LYS:HB3	2:J:428:PHE:CZ	2.42	0.54
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.89	0.54
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.89	0.54
2:J:70:SER:HB2	2:J:74:GLU:OE2	2.08	0.54
2:J:980:LEU:HD22	2:J:986:LEU:HD21	1.89	0.54
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.42	0.54
2:L:38:PRO:HG2	2:L:41:LEU:HD12	1.90	0.54
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.89	0.54
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.54
1:B:469:LEU:O	1:B:472:GLN:HB3	2.08	0.54
1:C:1017:TYR:N	1:C:1017:TYR:CD1	2.75	0.54
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.88	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
1:C:414:TYR:CE2	1:C:418:ILE:HD11	2.43	0.54
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.89	0.54
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.90	0.54
1:E:1451:LYS:HA	1:E:1454:ARG:NH2	2.22	0.54
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.42	0.54
1:E:746:PHE:HB3	3:E:1901:NAP:H52N	1.89	0.54
1:C:1118:GLU:OE2	1:F:1154:LEU:HD21	2.06	0.54
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.90	0.54
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.89	0.54
2:G:1317:ASN:HB3	2:G:1320:ALA:HB3	1.89	0.54
2:G:1436:ARG:NH2	2:G:1602:LEU:CD1	2.71	0.54
2:G:485:ASP:O	2:G:488:PRO:HD2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.21	0.54
2:H:197:VAL:HA	2:H:262:MET:HE1	1.90	0.54
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.89	0.54
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.73	0.54
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.38	0.54
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.38	0.54
2:I:1947:LYS:HG2	2:I:1993:PHE:CD1	2.42	0.54
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.23	0.54
2:I:529:ASN:HD22	2:I:552:VAL:HG23	1.72	0.54
2:I:618:VAL:O	2:I:622:MET:HG3	2.08	0.54
2:I:700:GLU:CD	2:I:700:GLU:H	2.11	0.54
2:J:1701:GLU:H	2:J:1704:MET:CE	2.19	0.54
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.37	0.54
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.08	0.54
2:K:1231:THR:CG2	2:K:1595:VAL:HG11	2.37	0.54
2:K:1885:ALA:HB2	2:K:1998:LEU:HD21	1.89	0.54
2:K:980:LEU:HD22	2:K:986:LEU:HD21	1.90	0.54
2:L:1335:PHE:CZ	2:L:1629:ILE:HD13	2.42	0.54
2:L:1878:ARG:HE	2:L:1986:PRO:HG3	1.71	0.54
2:L:747:ARG:NH1	2:L:780:SER:O	2.40	0.54
2:L:762:LEU:HD11	2:L:800:PHE:CD2	2.42	0.54
2:L:978:SER:O	2:L:981:GLN:HG2	2.08	0.54
1:A:350:ASP:HB3	1:A:353:ALA:HB2	1.89	0.54
1:B:550:LYS:HZ1	1:B:631:LYS:HE2	1.70	0.54
1:C:1142:LEU:HD12	1:C:1142:LEU:N	2.23	0.54
1:D:849:GLY:HA3	1:D:873:GLN:CG	2.38	0.54
1:E:1443:LEU:HD22	1:E:1474:ILE:HD11	1.89	0.54
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.42	0.54
1:E:452:ILE:HD12	1:E:467:LYS:HA	1.88	0.54
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.23	0.54
1:F:1164:ILE:HD12	1:F:1355:GLN:HG3	1.90	0.54
1:F:828:TRP:HE1	1:F:838:THR:HA	1.71	0.54
1:F:907:PHE:O	1:F:909:PRO:HD3	2.08	0.54
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.43	0.54
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.89	0.54
2:G:859:SER:CB	2:G:863:GLU:HG3	2.38	0.54
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.90	0.54
2:H:2062:THR:HG22	2:H:2064:SER:N	2.22	0.54
2:H:505:THR:O	2:H:505:THR:HG22	2.06	0.54
2:I:245:SER:HA	2:I:436:THR:OG1	2.08	0.54
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.37	0.54

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:462:ALA:N	2:I:483:ASP:HA	2.22	0.54
2:I:752:HIS:NE2	2:I:856:THR:HG22	2.23	0.54
2:J:1377:SER:HB3	2:J:1432:GLN:HB2	1.88	0.54
2:J:728:ILE:HG22	2:J:732:LYS:HE3	1.90	0.54
2:J:930:THR:CG2	2:J:933:GLU:HG3	2.38	0.54
2:J:966:VAL:O	2:J:970:PHE:HD1	1.90	0.54
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.54
2:K:330:SER:N	2:L:1331:THR:HG22	2.22	0.54
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	1.89	0.54
2:L:1420:LYS:HG2	2:L:1425:PRO:CA	2.38	0.54
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.89	0.54
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	1.88	0.54
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.89	0.54
1:D:1404:ALA:HA	1:D:1501:ALA:HB1	1.89	0.54
1:E:41:THR:HA	2:K:1689:VAL:HB	1.90	0.54
1:E:859:VAL:HG13	1:E:918:LEU:HD13	1.90	0.54
1:F:1448:ALA:HA	1:F:1451:LYS:CE	2.34	0.54
1:F:1532:LYS:HE2	1:F:1598:VAL:HG11	1.89	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.90	0.54
2:G:1334:ALA:HA	2:G:1341:ASP:HB2	1.90	0.54
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.42	0.54
2:H:595:SER:HB3	2:H:602:PRO:CD	2.36	0.54
2:H:608:MET:H	2:H:612:THR:CB	2.21	0.54
2:I:1746:THR:CB	2:I:1792:THR:HG23	2.36	0.54
2:I:1890:ARG:HB3	2:I:1994:ALA:HB2	1.90	0.54
2:I:21:LEU:HD22	2:I:36:LEU:HG	1.89	0.54
2:I:750:GLY:O	2:I:865:ILE:HA	2.07	0.54
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.07	0.54
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.90	0.54
2:J:610:PRO:O	2:J:613:VAL:HG12	2.08	0.54
2:K:1346:MET:CE	2:K:1617:ARG:HH21	2.21	0.54
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.43	0.54
2:K:1421:ARG:HD2	2:K:1426:VAL:CG2	2.37	0.54
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	1.89	0.54
2:L:859:SER:CB	2:L:863:GLU:HG3	2.37	0.54
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.90	0.54
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.07	0.54
1:A:905:LEU:HD22	1:A:911:LEU:HD21	1.88	0.54
1:B:1447:VAL:CG2	1:B:1467:LEU:HD21	2.36	0.54
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.89	0.54
1:D:501:ASP:OD2	1:D:503:ARG:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:TYR:CD1	1:D:888:ILE:HD11	2.43	0.54
1:E:1491:ASN:H	1:E:1491:ASN:HD22	1.54	0.54
1:E:1532:LYS:HE2	1:E:1598:VAL:HG11	1.88	0.54
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.41	0.54
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.43	0.54
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.08	0.54
1:F:1451:LYS:HE2	1:F:1463:GLU:OE2	2.08	0.54
2:G:501:TRP:HE1	2:G:528:THR:CG2	2.15	0.54
2:H:1445:THR:CG2	2:H:1498:PHE:HB2	2.38	0.54
2:H:1804:GLN:HB3	2:H:1861:PHE:CE1	2.42	0.54
1:B:24:MET:HB3	2:H:2043:VAL:HG12	1.90	0.54
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.90	0.54
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.72	0.54
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.43	0.54
2:J:1411:LYS:HB3	2:J:1435:TYR:HB2	1.90	0.54
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.34	0.54
2:J:1932:ASP:O	2:J:1936:LEU:HD23	2.08	0.54
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.70	0.54
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.81	0.54
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.68	0.54
2:K:26:LEU:O	2:K:32:GLU:HA	2.07	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.43	0.54
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.42	0.54
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.72	0.54
2:L:1194:ARG:NH1	2:L:1194:ARG:CG	2.54	0.54
2:L:1377:SER:HB3	2:L:1432:GLN:HB2	1.89	0.54
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.90	0.54
1:A:1317:GLU:HB3	1:E:1250:LEU:HD22	1.88	0.54
1:A:1306:GLY:O	1:A:1357:CYS:HB2	2.08	0.54
1:A:1670:HIS:CE1	2:G:1009:ASN:ND2	2.76	0.54
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.71	0.54
1:A:430:VAL:O	1:A:434:ILE:HG13	2.08	0.54
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.07	0.54
1:B:569:LEU:O	1:B:573:VAL:HG23	2.08	0.54
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.08	0.54
1:B:746:PHE:HB3	3:B:1901:NAP:H52N	1.90	0.54
1:B:849:GLY:HA3	1:B:873:GLN:CG	2.38	0.54
1:C:1250:LEU:HD22	1:F:1317:GLU:HB3	1.90	0.54
1:D:1229:THR:HB	1:D:1311:GLN:HG3	1.90	0.54
1:D:1451:LYS:HA	1:D:1454:ARG:NH2	2.23	0.54
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.08	0.54
1:F:31:THR:HG23	2:L:2040:ILE:HG21	1.90	0.54
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.38	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:HD2	1.73	0.54
2:G:204:ILE:HG23	2:G:312:VAL:HG11	1.90	0.54
2:H:524:ILE:HA	2:H:527:LEU:HD12	1.90	0.54
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.90	0.54
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.90	0.54
2:I:1200:ARG:N	2:I:1200:ARG:HD3	2.10	0.54
2:I:126:VAL:HG12	2:I:127:ALA:H	1.73	0.54
2:I:1963:GLU:HA	2:I:1966:ARG:HB3	1.89	0.54
2:I:35:PHE:CD2	2:I:37:VAL:HG22	2.43	0.54
2:J:1338:ARG:HH21	2:L:326:TYR:HA	1.73	0.54
2:J:138:ARG:CB	2:J:192:THR:HA	2.38	0.54
2:K:1217:ILE:O	2:K:1233:GLU:HA	2.08	0.54
2:L:1700:GLN:HA	2:L:1704:MET:CE	2.35	0.54
2:L:1963:GLU:HA	2:L:1966:ARG:HB3	1.90	0.54
2:L:861:MET:HB2	2:L:863:GLU:HG2	1.89	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.53
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.38	0.53
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.07	0.53
1:B:1038:HIS:O	1:B:1048:SER:HA	2.08	0.53
1:C:1640:LYS:HG3	1:C:1641:TYR:HD1	1.72	0.53
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.08	0.53
1:D:469:LEU:O	1:D:472:GLN:HB3	2.07	0.53
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.89	0.53
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.38	0.53
2:G:192:THR:C	2:G:194:PRO:HD3	2.29	0.53
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.90	0.53
2:G:917:ARG:CG	2:G:917:ARG:NH1	2.47	0.53
2:G:917:ARG:HD3	2:G:937:ARG:CZ	2.38	0.53
2:H:1234:ILE:HG12	2:H:1244:LEU:HD13	1.91	0.53
2:H:38:PRO:HG2	2:H:41:LEU:HD12	1.90	0.53
2:H:489:GLU:O	2:H:493:MET:HG3	2.09	0.53
2:I:1411:LYS:HB3	2:I:1435:TYR:HB2	1.90	0.53
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.90	0.53
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	1.89	0.53
2:I:197:VAL:HA	2:I:262:MET:HE1	1.91	0.53
2:I:451:ILE:O	2:I:455:VAL:HG23	2.07	0.53
2:I:172:ILE:HG22	2:I:514:VAL:O	2.08	0.53
2:J:2039:TYR:O	2:J:2041:PRO:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:785:SER:HA	2:J:788:THR:HB	1.89	0.53
2:K:911:GLN:HG3	2:K:1064:THR:HA	1.89	0.53
2:K:161:ALA:HB1	2:K:166:ASN:HB2	1.90	0.53
2:K:1821:MET:HA	2:K:1826:LEU:HD12	1.90	0.53
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.89	0.53
2:K:622:MET:O	2:K:656:ARG:NH1	2.40	0.53
2:L:1603:PRO:HD2	2:L:1606:ILE:HD11	1.90	0.53
1:F:25:PRO:HA	2:L:2006:HIS:HB3	1.90	0.53
2:L:605:VAL:CB	2:L:628:ILE:HG13	2.32	0.53
2:L:824:THR:HG22	2:L:828:ALA:HB3	1.90	0.53
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.08	0.53
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	1.90	0.53
1:B:427:ARG:NH1	1:B:492:ILE:HG12	2.23	0.53
1:B:628:TYR:CD1	1:B:628:TYR:C	2.81	0.53
1:C:535:TYR:CG	1:C:610:GLU:N	2.76	0.53
1:E:1514:ILE:HD13	1:E:1545:LEU:HB3	1.90	0.53
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.89	0.53
1:E:427:ARG:HG3	1:E:427:ARG:NH1	2.01	0.53
1:E:427:ARG:NH1	1:E:492:ILE:HG23	2.16	0.53
1:E:983:GLN:O	1:E:987:MET:HG3	2.08	0.53
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.72	0.53
2:G:486:ILE:HG23	2:G:490:LEU:HG	1.91	0.53
2:H:1436:ARG:HH22	2:H:1602:LEU:HD13	1.72	0.53
2:H:22:ARG:HD2	2:H:42:HIS:HB3	1.90	0.53
2:H:727:VAL:HA	2:H:730:ILE:HG12	1.90	0.53
2:I:1421:ARG:HD2	2:I:1426:VAL:CG2	2.38	0.53
2:I:1821:MET:HA	2:I:1826:LEU:HD12	1.90	0.53
2:I:289:ILE:HG12	2:I:493:MET:HE1	1.91	0.53
2:I:35:PHE:HD2	2:I:37:VAL:HG22	1.72	0.53
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.53
2:J:256:VAL:O	2:J:260:HIS:CD2	2.61	0.53
2:J:329:THR:HG21	2:K:1333:GLU:CG	2.39	0.53
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.89	0.53
2:K:1445:THR:CG2	2:K:1498:PHE:HB2	2.39	0.53
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.08	0.53
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.08	0.53
2:K:460:ILE:O	2:K:486:ILE:HB	2.08	0.53
2:L:911:GLN:HG3	2:L:1064:THR:HA	1.89	0.53
2:K:376:ARG:NH2	2:L:1340:LYS:HG3	2.24	0.53
2:L:1436:ARG:HH22	2:L:1602:LEU:CD1	2.21	0.53
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.43	0.53
2:L:824:THR:HB	2:L:829:LYS:HE3	1.90	0.53
1:A:1120:LYS:HD3	1:A:1129:ILE:HG12	1.90	0.53
1:A:1505:GLY:O	1:A:1509:THR:HG23	2.08	0.53
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.37	0.53
1:B:486:VAL:HG13	1:B:648:LEU:H	1.74	0.53
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.90	0.53
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.41	0.53
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.71	0.53
1:C:1686:PRO:HB2	1:C:1713:PHE:CE1	2.43	0.53
1:C:904:GLY:HA2	1:C:906:GLN:OE1	2.07	0.53
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.90	0.53
1:D:486:VAL:HG13	1:D:648:LEU:H	1.73	0.53
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.08	0.53
1:E:382:ILE:HD12	1:E:761:SER:HB3	1.90	0.53
1:F:452:ILE:HD12	1:F:467:LYS:HA	1.89	0.53
2:G:506:VAL:CG1	2:G:506:VAL:O	2.57	0.53
2:H:1342:PHE:HE2	2:H:1391:VAL:CG2	2.21	0.53
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.23	0.53
2:I:1370:LEU:HA	2:I:1435:TYR:CE2	2.42	0.53
2:I:1709:TYR:HD2	2:I:1709:TYR:C	2.11	0.53
2:I:1986:PRO:O	2:I:1987:VAL:HB	2.08	0.53
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.91	0.53
2:I:609:THR:HG22	2:I:633:GLY:HA3	1.88	0.53
2:I:656:ARG:NH1	2:I:656:ARG:HG2	2.20	0.53
2:I:762:LEU:HD11	2:I:800:PHE:CD2	2.44	0.53
2:I:903:ILE:HD11	2:I:914:TRP:CZ2	2.43	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.90	0.53
2:J:595:SER:HB3	2:J:602:PRO:CD	2.38	0.53
2:J:747:ARG:NH1	2:J:780:SER:HB3	2.20	0.53
2:J:938:MET:HE2	2:J:959:THR:HG22	1.89	0.53
2:K:1746:THR:CB	2:K:1792:THR:HG23	2.35	0.53
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	1.90	0.53
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.40	0.53
2:L:1203:TYR:HB3	2:L:1220:ARG:HB2	1.89	0.53
2:L:1616:VAL:HG11	2:L:1679:LEU:CD1	2.31	0.53
1:A:1017:TYR:N	1:A:1017:TYR:HD1	2.05	0.53
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.42	0.53
1:B:1307:PHE:HB3	1:B:1357:CYS:HB3	1.90	0.53
1:B:13:LEU:HD11	2:H:2058:VAL:HG21	1.90	0.53
1:D:542:GLN:HB3	1:D:579:MET:CE	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:GLN:O	1:E:569:LEU:HG	2.07	0.53
1:E:628:TYR:HD1	1:E:629:SER:N	2.06	0.53
1:C:1435:TRP:HD1	1:F:1427:LEU:HD11	1.72	0.53
1:F:382:ILE:HD12	1:F:761:SER:HB3	1.90	0.53
2:G:1224:GLN:HA	2:G:1224:GLN:OE1	2.09	0.53
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.89	0.53
2:G:300:THR:H	2:G:303:GLU:HB3	1.73	0.53
2:G:614:PRO:O	2:G:618:VAL:HG12	2.08	0.53
2:G:776:LEU:HG	2:G:807:PHE:CE2	2.43	0.53
2:H:48:LEU:HD13	2:H:101:VAL:HG11	1.90	0.53
2:H:490:LEU:HA	2:H:493:MET:SD	2.49	0.53
2:H:605:VAL:CB	2:H:628:ILE:HG13	2.33	0.53
2:I:1411:LYS:HE3	2:I:1441:ASP:OD2	2.09	0.53
2:I:1464:LEU:HD13	2:I:1468:ARG:HG3	1.91	0.53
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.90	0.53
2:I:1067:LEU:HB2	4:I:2101:FMN:HM71	1.88	0.53
2:I:290:VAL:HG13	2:I:314:LEU:HD23	1.91	0.53
2:I:609:THR:CG2	2:I:633:GLY:HA3	2.39	0.53
2:J:1555:VAL:HG21	2:J:1824:LYS:HA	1.90	0.53
2:J:1878:ARG:HE	2:J:1986:PRO:HG3	1.73	0.53
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.23	0.53
2:J:931:TYR:O	2:J:935:VAL:HG12	2.09	0.53
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.37	0.53
2:K:256:VAL:O	2:K:260:HIS:CD2	2.62	0.53
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.22	0.53
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.91	0.53
2:L:161:ALA:HB1	2:L:166:ASN:HB2	1.89	0.53
2:L:1845:VAL:CG2	2:L:1856:LEU:HD22	2.39	0.53
2:L:2062:THR:HG22	2:L:2064:SER:N	2.23	0.53
2:L:157:ALA:HB3	2:L:565:ALA:HB3	1.90	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:42:GLU:OE1	2:G:1688:PRO:HB3	2.08	0.53
1:C:1100:VAL:HG21	1:C:1150:ILE:CD1	2.38	0.53
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.08	0.53
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.73	0.53
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.91	0.53
1:C:844:ILE:N	1:C:844:ILE:HD12	2.23	0.53
1:D:1038:HIS:O	1:D:1048:SER:HA	2.08	0.53
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.23	0.53
1:F:1565:PRO:O	1:F:1567:GLY:N	2.42	0.53
1:F:628:TYR:HD1	1:F:629:SER:N	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.44	0.53
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.44	0.53
2:G:2062:THR:HG22	2:G:2064:SER:N	2.24	0.53
2:G:26:LEU:O	2:G:32:GLU:HA	2.09	0.53
2:H:1224:GLN:HA	2:H:1224:GLN:OE1	2.08	0.53
2:H:1616:VAL:HG11	2:H:1679:LEU:CD1	2.32	0.53
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.70	0.53
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.39	0.53
2:H:610:PRO:HD2	4:H:2101:FMN:C6	2.25	0.53
2:H:752:HIS:CE1	2:H:856:THR:HG21	2.43	0.53
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.38	0.53
2:I:1643:VAL:CG1	2:I:1649:ILE:HD11	2.38	0.53
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.38	0.53
2:I:192:THR:C	2:I:194:PRO:HD3	2.28	0.53
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.53
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.90	0.53
2:J:798:THR:HA	2:J:802:TYR:O	2.08	0.53
1:E:1670:HIS:CE1	2:K:1009:ASN:ND2	2.77	0.53
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.38	0.53
2:K:1607:THR:HB	2:K:1643:VAL:O	2.08	0.53
2:K:485:ASP:O	2:K:488:PRO:HD2	2.09	0.53
2:K:613:VAL:HG13	2:K:614:PRO:CD	2.38	0.53
2:L:609:THR:HG22	2:L:633:GLY:HA3	1.91	0.53
1:A:1017:TYR:N	1:A:1017:TYR:CD1	2.76	0.53
1:A:1337:PRO:HA	1:A:1340:MET:CG	2.38	0.53
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.44	0.53
1:B:41:THR:HA	2:H:1689:VAL:HB	1.90	0.53
1:C:1038:HIS:O	1:C:1048:SER:HA	2.08	0.53
1:E:960:ARG:HG3	1:E:960:ARG:HH11	1.73	0.53
2:G:152:LYS:HB2	2:G:154:TYR:CE1	2.43	0.53
2:G:604:MET:CE	2:G:811:MET:HB2	2.39	0.53
2:H:2021:LEU:O	2:H:2025:ILE:HG13	2.09	0.53
2:H:268:LEU:HD12	2:H:275:LEU:HD11	1.90	0.53
2:H:440:HIS:HD2	2:H:497:ASP:O	1.90	0.53
2:H:613:VAL:HG13	2:H:614:PRO:HD3	1.89	0.53
2:H:685:VAL:CG1	2:H:687:ILE:HG13	2.38	0.53
2:H:762:LEU:HD11	2:H:800:PHE:CD2	2.43	0.53
2:I:1305:LEU:H	2:I:1305:LEU:HD12	1.72	0.53
2:I:94:ALA:HB1	2:I:97:THR:OG1	2.07	0.53
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.24	0.53
2:J:952:ASP:OD1	2:J:953:PRO:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1007:LEU:N	2:K:1007:LEU:HD12	2.17	0.53
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.41	0.53
2:K:141:TYR:OH	2:K:267:THR:HG23	2.08	0.53
2:L:1207:THR:O	2:L:1215:THR:HG23	2.09	0.53
2:L:21:LEU:HA	2:L:37:VAL:O	2.08	0.53
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.90	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:92:GLU:HB3	2:L:95:HIS:NE2	2.24	0.53
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.08	0.53
1:C:1260:ALA:O	1:C:1264:MET:HG3	2.08	0.53
1:C:1702:ARG:HG2	1:C:1702:ARG:NH1	2.12	0.53
1:C:469:LEU:O	1:C:472:GLN:HB3	2.08	0.53
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.53
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.56	0.53
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.91	0.53
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.72	0.53
1:F:575:ARG:HG2	1:F:579:MET:SD	2.49	0.53
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.37	0.53
2:G:1963:GLU:HA	2:G:1966:ARG:HB3	1.91	0.53
2:G:1982:ALA:O	2:G:1984:PRO:HD3	2.08	0.53
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.90	0.53
2:H:2039:TYR:O	2:H:2041:PRO:HD3	2.09	0.53
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.15	0.53
2:H:875:PHE:O	2:H:878:GLU:HB2	2.09	0.53
2:H:962:PHE:O	2:H:966:VAL:HG23	2.09	0.53
2:I:912:LYS:HB3	2:I:1030:PHE:HA	1.91	0.53
2:I:256:VAL:O	2:I:260:HIS:CD2	2.61	0.53
2:I:820:LYS:HG3	2:I:821:GLU:HG2	1.91	0.53
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.89	0.53
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.39	0.53
2:J:276:LEU:HD21	2:J:296:ALA:HA	1.91	0.53
2:K:861:MET:HB2	2:K:863:GLU:HG2	1.90	0.53
2:L:1795:SER:HB3	2:L:1799:LEU:HD12	1.91	0.53
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.90	0.53
1:B:1505:GLY:O	1:B:1509:THR:HG23	2.08	0.53
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.09	0.53
1:B:612:ILE:HA	1:B:628:TYR:CE2	2.44	0.53
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.91	0.53
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.09	0.53
1:C:1451:LYS:HA	1:C:1454:ARG:NH2	2.23	0.53
1:D:1132:ILE:HD12	1:D:1137:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:684:THR:HG21	1:D:691:VAL:HG11	1.90	0.53
1:E:628:TYR:OH	1:E:630:LYS:HG2	2.09	0.53
1:E:689:ARG:NH2	1:E:1591:ASN:OD1	2.41	0.53
1:F:1132:ILE:HD12	1:F:1137:GLN:HB2	1.90	0.53
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.53
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.38	0.53
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	1.97	0.53
2:G:1653:LEU:HD21	2:G:1667:VAL:HG13	1.90	0.53
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.08	0.53
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.37	0.53
2:G:2044:THR:HG22	2:G:2046:LYS:H	1.73	0.53
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.91	0.53
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.73	0.53
2:G:882:LYS:HB3	2:G:898:ARG:NH1	2.24	0.53
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.20	0.53
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.23	0.53
2:H:21:LEU:HD22	2:H:36:LEU:HG	1.89	0.53
2:I:462:ALA:H	2:I:483:ASP:HA	1.72	0.53
2:I:653:PRO:O	2:I:656:ARG:HB2	2.09	0.53
2:I:859:SER:CB	2:I:863:GLU:HG3	2.38	0.53
2:J:161:ALA:HB1	2:J:166:ASN:HB2	1.90	0.53
1:D:22:PHE:O	2:J:2006:HIS:HA	2.09	0.53
2:J:747:ARG:NH2	2:J:757:PHE:CE1	2.77	0.53
2:K:1128:PRO:HG2	2:K:1135:ALA:CB	2.39	0.53
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.38	0.53
2:K:197:VAL:HG12	2:K:201:ILE:HG13	1.91	0.53
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.24	0.53
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.08	0.53
2:L:192:THR:C	2:L:194:PRO:HD3	2.28	0.53
1:A:1269:SER:O	1:E:1386:THR:HB	2.09	0.53
1:A:628:TYR:HD1	1:A:629:SER:N	2.06	0.53
1:C:452:ILE:HD12	1:C:467:LYS:HA	1.91	0.53
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.09	0.53
1:E:1052:ASP:O	1:E:1055:THR:O	2.26	0.53
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.91	0.53
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.90	0.53
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.90	0.53
1:E:636:TYR:CD1	1:E:888:ILE:HD11	2.44	0.53
1:F:1491:ASN:H	1:F:1491:ASN:HD22	1.56	0.53
1:F:746:PHE:CE1	1:F:800:PRO:HG3	2.43	0.53
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1805:PHE:O	2:G:1808:PRO:HD2	2.09	0.53
2:G:595:SER:HB3	2:G:602:PRO:CD	2.38	0.53
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.73	0.53
2:H:1436:ARG:NH2	2:H:1602:LEU:CD1	2.72	0.53
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.91	0.53
2:H:699:ILE:HD12	2:H:699:ILE:N	2.24	0.53
2:I:1317:ASN:HB3	2:I:1320:ALA:HB3	1.90	0.53
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.09	0.53
2:I:379:GLY:O	2:I:391:VAL:HG13	2.09	0.53
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.44	0.53
2:I:825:SER:CB	2:I:1053:ILE:HG13	2.39	0.53
2:I:915:PHE:O	2:I:915:PHE:CD2	2.62	0.53
2:J:21:LEU:HD22	2:J:36:LEU:HG	1.91	0.53
2:J:608:MET:H	2:J:612:THR:CB	2.20	0.53
2:J:609:THR:HG23	4:J:2101:FMN:O4	2.08	0.53
2:J:376:ARG:HH22	2:K:1340:LYS:CE	2.22	0.53
2:K:613:VAL:HG23	2:K:635:TYR:CE1	2.44	0.53
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.24	0.53
2:L:1982:ALA:O	2:L:1984:PRO:HD3	2.09	0.53
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.22	0.53
1:A:960:ARG:HH11	1:A:960:ARG:HG3	1.74	0.53
1:B:1330:GLU:OE2	1:B:1342:ARG:NH2	2.41	0.53
1:C:501:ASP:OD2	1:C:503:ARG:HB2	2.09	0.53
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.44	0.53
1:D:570:TYR:HD2	1:D:574:ILE:HD11	1.73	0.53
1:D:628:TYR:C	1:D:628:TYR:CD1	2.81	0.53
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.09	0.53
1:E:1306:GLY:O	1:E:1357:CYS:HB2	2.08	0.53
1:E:1451:LYS:HE2	1:E:1463:GLU:OE2	2.09	0.53
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.43	0.53
1:E:486:VAL:HG13	1:E:648:LEU:H	1.74	0.53
1:F:22:PHE:CE2	2:L:2017:PHE:CG	2.91	0.53
2:G:1007:LEU:H	2:G:1007:LEU:CD1	2.15	0.53
2:G:610:PRO:CD	4:G:2101:FMN:H6	2.26	0.53
2:G:379:GLY:O	2:G:391:VAL:HG13	2.09	0.53
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.45	0.53
2:G:820:LYS:HG3	2:G:821:GLU:HG2	1.90	0.53
2:G:930:THR:O	2:G:934:VAL:HG23	2.08	0.53
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.90	0.53
2:I:1176:PHE:CE1	2:I:1192:LEU:HD13	2.44	0.53
2:I:1180:VAL:HG11	2:I:1187:PHE:CG	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.09	0.53
2:I:613:VAL:HG13	2:I:614:PRO:HD3	1.91	0.53
2:I:92:GLU:HB3	2:I:95:HIS:NE2	2.24	0.53
2:I:980:LEU:HD22	2:I:986:LEU:HD21	1.91	0.53
2:J:1180:VAL:HG11	2:J:1187:PHE:CG	2.43	0.53
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.91	0.53
1:E:59:ARG:NH1	2:K:1926:GLN:HE21	2.07	0.53
2:K:618:VAL:HG11	2:K:648:ILE:HD11	1.91	0.53
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.44	0.53
2:L:1171:TRP:CD1	2:L:1172:ARG:N	2.77	0.53
2:L:1317:ASN:HB3	2:L:1320:ALA:CB	2.39	0.53
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.90	0.53
2:L:1620:VAL:O	2:L:1624:ALA:HB3	2.09	0.53
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.73	0.52
1:A:766:ALA:HA	1:A:769:ILE:HD12	1.91	0.52
1:A:967:PHE:CG	1:A:1374:PRO:HG3	2.44	0.52
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.91	0.52
1:B:1494:TRP:HE1	1:B:1509:THR:HG21	1.74	0.52
1:C:929:ARG:O	1:C:933:ILE:HG13	2.09	0.52
1:D:1491:ASN:H	1:D:1491:ASN:HD22	1.56	0.52
1:D:673:LEU:O	1:D:678:ALA:HB3	2.10	0.52
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.90	0.52
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	1.91	0.52
1:E:1213:VAL:HG22	1:E:1300:ARG:CZ	2.39	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.31	0.52
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.91	0.52
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.91	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.43	0.52
2:G:1620:VAL:O	2:G:1624:ALA:HB3	2.09	0.52
2:G:1885:ALA:HB2	2:G:1998:LEU:HD21	1.90	0.52
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.90	0.52
2:G:992:ALA:O	2:G:995:ARG:HB3	2.09	0.52
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.91	0.52
2:H:1370:LEU:HA	2:H:1435:TYR:CE2	2.43	0.52
2:H:1878:ARG:HE	2:H:1986:PRO:HG3	1.73	0.52
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.73	0.52
2:H:613:VAL:N	2:H:614:PRO:CD	2.72	0.52
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.24	0.52
2:I:1293:TRP:CZ3	2:I:1370:LEU:HD21	2.44	0.52
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1176:PHE:CE1	2:J:1192:LEU:HD13	2.44	0.52
2:J:1234:ILE:HG12	2:J:1244:LEU:HD13	1.91	0.52
2:J:1411:LYS:HE3	2:J:1441:ASP:OD2	2.09	0.52
2:J:1821:MET:HA	2:J:1826:LEU:HD12	1.91	0.52
2:J:196:PHE:H	2:J:196:PHE:HD2	1.56	0.52
2:J:1890:ARG:HB3	2:J:1994:ALA:HB2	1.92	0.52
2:J:655:GLY:HA3	2:J:1272:ALA:CB	2.39	0.52
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.72	0.52
2:K:1653:LEU:CD2	2:K:1667:VAL:HG13	2.38	0.52
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.24	0.52
2:K:1946:LEU:HD22	2:K:1951:ILE:HG12	1.92	0.52
2:K:440:HIS:NE2	2:K:499:VAL:HG23	2.25	0.52
2:K:775:VAL:HG12	2:K:777:VAL:HG23	1.90	0.52
2:K:930:THR:HA	2:K:1007:LEU:HA	1.91	0.52
2:K:929:MET:HE1	2:K:934:VAL:HG22	1.91	0.52
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.10	0.52
2:L:1279:GLU:H	2:L:1279:GLU:CD	2.12	0.52
2:L:1500:ASN:HB2	2:L:1503:VAL:H	1.74	0.52
2:L:613:VAL:N	2:L:614:PRO:CD	2.72	0.52
1:A:1297:GLY:HA2	1:E:1496:ARG:NH2	2.23	0.52
1:A:414:TYR:CE2	1:A:418:ILE:CD1	2.92	0.52
1:B:1307:PHE:HB3	1:B:1357:CYS:CB	2.39	0.52
1:B:1702:ARG:HG2	1:B:1702:ARG:NH1	2.16	0.52
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.39	0.52
1:C:1337:PRO:HA	1:C:1340:MET:CG	2.39	0.52
1:C:881:LEU:O	1:C:884:MET:HB2	2.09	0.52
1:D:904:GLY:HA2	1:D:906:GLN:OE1	2.08	0.52
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.45	0.52
1:F:868:VAL:HG11	1:F:908:ILE:CD1	2.35	0.52
2:G:221:TYR:CE2	2:G:225:LEU:HD22	2.44	0.52
2:G:930:THR:CG2	2:G:933:GLU:HG3	2.38	0.52
2:H:1248:GLU:HA	2:H:1248:GLU:OE1	2.08	0.52
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	2.24	0.52
2:H:378:ILE:HD11	2:H:398:LEU:HA	1.92	0.52
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.39	0.52
2:I:21:LEU:HD13	2:I:36:LEU:HD21	1.92	0.52
2:I:378:ILE:HD11	2:I:398:LEU:HA	1.90	0.52
2:I:727:VAL:HA	2:I:730:ILE:HG12	1.90	0.52
2:I:422:THR:HG23	2:I:844:GLU:OE2	2.09	0.52
2:J:1207:THR:O	2:J:1215:THR:HG23	2.09	0.52
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.24	0.52
2:J:992:ALA:O	2:J:995:ARG:HB3	2.10	0.52
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	1.90	0.52
2:K:1180:VAL:HG11	2:K:1187:PHE:CG	2.41	0.52
2:K:1464:LEU:HD13	2:K:1468:ARG:HG3	1.90	0.52
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.23	0.52
2:L:490:LEU:HA	2:L:493:MET:SD	2.50	0.52
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.91	0.52
1:A:1078:ILE:HG23	1:A:1352:MET:CE	2.40	0.52
1:A:1514:ILE:HD13	1:A:1545:LEU:HB3	1.90	0.52
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.91	0.52
1:C:983:GLN:HB3	1:C:1418:ILE:HG21	1.91	0.52
1:D:1169:ASP:OD2	1:D:1171:ARG:HB2	2.10	0.52
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.44	0.52
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.74	0.52
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.45	0.52
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.35	0.52
1:D:382:ILE:HD12	1:D:761:SER:HB3	1.91	0.52
1:D:983:GLN:O	1:D:987:MET:HG3	2.10	0.52
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.36	0.52
1:F:1335:ARG:HH11	1:F:1339:GLU:HG2	1.73	0.52
1:F:985:ARG:HB3	1:F:1422:ARG:HH22	1.75	0.52
1:F:336:PHE:O	1:F:339:GLN:HB2	2.09	0.52
1:F:636:TYR:CD1	1:F:888:ILE:HD11	2.44	0.52
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.23	0.52
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.91	0.52
2:G:794:GLY:O	2:G:804:PRO:HA	2.09	0.52
2:H:35:PHE:HZ	2:H:104:LEU:HB3	1.74	0.52
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.44	0.52
2:H:1176:PHE:CE1	2:H:1192:LEU:HD13	2.45	0.52
2:H:1383:VAL:HG23	2:H:1428:TYR:CE1	2.43	0.52
2:H:1411:LYS:HB3	2:H:1435:TYR:HB2	1.90	0.52
2:H:1468:ARG:NH1	2:H:1475:LEU:HD22	2.24	0.52
2:H:979:LEU:HB2	2:H:996:ILE:HG23	1.91	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:I:1383:VAL:HG23	2:I:1428:TYR:CE1	2.43	0.52
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.39	0.52
2:J:48:LEU:HD13	2:J:101:VAL:HG11	1.91	0.52
2:J:1350:ILE:HG22	2:J:1429:VAL:HG11	1.91	0.52
2:J:391:VAL:HG12	2:J:398:LEU:HD21	1.91	0.52
2:J:779:GLY:HA3	2:J:811:MET:CE	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:962:PHE:O	2:J:965:ARG:HB3	2.08	0.52
2:K:1913:TRP:HZ3	2:K:1938:THR:HG21	1.74	0.52
2:K:196:PHE:H	2:K:196:PHE:HD2	1.58	0.52
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.24	0.52
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.92	0.52
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.44	0.52
2:L:1383:VAL:HG23	2:L:1428:TYR:CE1	2.42	0.52
2:L:934:VAL:O	2:L:938:MET:HG3	2.08	0.52
1:A:746:PHE:CE1	1:A:800:PRO:HG3	2.44	0.52
1:B:1448:ALA:CA	1:B:1451:LYS:HE3	2.33	0.52
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.23	0.52
1:B:336:PHE:O	1:B:339:GLN:HB2	2.09	0.52
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.10	0.52
1:C:960:ARG:HG3	1:C:960:ARG:HH11	1.75	0.52
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.24	0.52
1:D:427:ARG:HH11	1:D:492:ILE:HG12	1.75	0.52
1:D:929:ARG:O	1:D:933:ILE:HG13	2.10	0.52
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.37	0.52
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.71	0.52
1:E:498:THR:HG21	1:E:858:LEU:CA	2.35	0.52
1:F:963:LEU:HD23	1:F:1023:GLU:HB3	1.90	0.52
1:F:1691:ILE:HG22	1:F:1695:VAL:HG23	1.91	0.52
1:F:486:VAL:HG13	1:F:648:LEU:H	1.75	0.52
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.38	0.52
2:G:290:VAL:HG13	2:G:314:LEU:HD23	1.92	0.52
2:G:378:ILE:HD11	2:G:398:LEU:HA	1.91	0.52
2:G:952:ASP:OD1	2:G:953:PRO:HD2	2.09	0.52
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.43	0.52
2:H:1421:ARG:HG2	2:H:1421:ARG:O	2.08	0.52
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	1.90	0.52
2:H:256:VAL:O	2:H:260:HIS:CD2	2.62	0.52
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.92	0.52
2:H:903:ILE:HD11	2:H:914:TRP:CZ2	2.45	0.52
2:I:1175:MET:O	2:I:1192:LEU:HD12	2.10	0.52
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.90	0.52
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.25	0.52
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.91	0.52
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	2.09	0.52
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.72	0.52
1:B:546:ARG:HH11	1:B:631:LYS:HZ1	1.57	0.52
1:C:418:ILE:HA	1:C:462:THR:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.39	0.52
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.45	0.52
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.70	0.52
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.44	0.52
1:F:1640:LYS:HG3	1:F:1641:TYR:HD1	1.73	0.52
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.74	0.52
2:G:1500:ASN:HB2	2:G:1503:VAL:H	1.74	0.52
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.91	0.52
2:H:1074:LYS:HG3	2:H:1075:TYR:CD1	2.45	0.52
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	1.90	0.52
2:H:1279:GLU:CD	2:H:1279:GLU:H	2.12	0.52
2:H:1725:HIS:CD2	2:H:1854:GLU:HB3	2.45	0.52
1:B:88:ILE:HG21	2:H:1821:MET:CE	2.40	0.52
2:H:728:ILE:HG22	2:H:732:LYS:HE3	1.90	0.52
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.44	0.52
2:H:92:GLU:HA	2:H:95:HIS:CE1	2.45	0.52
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.91	0.52
2:I:1403:ALA:HB2	2:I:1447:GLN:HG3	1.91	0.52
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.25	0.52
2:I:834:ASP:O	2:I:836:PRO:HD3	2.10	0.52
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.92	0.52
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.92	0.52
2:J:1411:LYS:HB2	2:J:1439:TYR:CD1	2.44	0.52
2:J:1421:ARG:O	2:J:1421:ARG:HG2	2.06	0.52
2:J:1872:GLU:HA	2:J:1872:GLU:OE1	2.08	0.52
2:J:656:ARG:HG2	2:J:656:ARG:NH1	2.23	0.52
2:K:1377:SER:HB3	2:K:1432:GLN:HB2	1.91	0.52
2:K:1643:VAL:CG1	2:K:1649:ILE:HD11	2.39	0.52
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.90	0.52
2:K:1890:ARG:HB3	2:K:1994:ALA:HB2	1.92	0.52
1:E:20:TYR:CE2	2:K:2062:THR:HG23	2.44	0.52
2:L:35:PHE:CD2	2:L:37:VAL:HG22	2.44	0.52
2:L:930:THR:CG2	2:L:933:GLU:H	2.22	0.52
1:A:1691:ILE:HG22	1:A:1695:VAL:HG23	1.91	0.52
1:B:1451:LYS:HE2	1:B:1463:GLU:OE2	2.10	0.52
1:B:452:ILE:HD12	1:B:467:LYS:HA	1.92	0.52
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.27	0.52
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.09	0.52
1:C:1686:PRO:HB2	1:C:1713:PHE:HD1	1.72	0.52
1:C:799:LEU:HD12	1:C:821:LEU:HB3	1.91	0.52
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:TRP:CH2	1:D:1609:SER:HB3	2.43	0.52
1:D:551:LEU:C	1:D:551:LEU:HD23	2.29	0.52
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.30	0.52
1:E:868:VAL:CG1	1:E:908:ILE:HD11	2.37	0.52
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.92	0.52
2:G:159:PHE:HA	2:G:162:ALA:HB3	1.92	0.52
2:G:747:ARG:NH1	2:G:780:SER:HB3	2.24	0.52
2:G:792:LEU:HD12	2:G:792:LEU:O	2.09	0.52
2:H:1464:LEU:HD13	2:H:1468:ARG:HG3	1.92	0.52
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.90	0.52
2:H:1555:VAL:HG21	2:H:1824:LYS:HA	1.92	0.52
2:H:388:ASN:HD22	2:H:389:PHE:N	2.07	0.52
2:H:409:LYS:HB3	2:H:428:PHE:CZ	2.43	0.52
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.45	0.52
2:I:1120:ILE:HD13	2:I:1173:HIS:CE1	2.45	0.52
2:I:1400:GLN:HG3	2:I:1448:ARG:HH12	1.74	0.52
2:J:1340:LYS:HE3	2:L:376:ARG:NH2	2.23	0.52
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.90	0.52
2:J:1403:ALA:HB2	2:J:1447:GLN:HG3	1.92	0.52
2:J:1653:LEU:CD2	2:J:1667:VAL:HG13	2.40	0.52
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.09	0.52
2:J:868:LEU:O	2:J:870:THR:HG23	2.09	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.25	0.52
2:K:38:PRO:HG2	2:K:41:LEU:HD12	1.90	0.52
2:K:888:ARG:O	2:K:891:ARG:HB2	2.10	0.52
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.24	0.52
2:L:1653:LEU:CD2	2:L:1667:VAL:HG13	2.39	0.52
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.92	0.52
2:L:271:GLU:H	2:L:274:GLU:HG3	1.74	0.52
1:A:1038:HIS:O	1:A:1048:SER:HA	2.09	0.52
1:A:427:ARG:NH1	1:A:427:ARG:HG3	2.06	0.52
1:A:631:LYS:O	1:A:635:ILE:HG22	2.09	0.52
1:B:1213:VAL:CG1	1:B:1214:HIS:N	2.72	0.52
1:B:1223:GLY:CA	1:B:1276:PRO:HD2	2.40	0.52
1:C:843:VAL:O	1:C:843:VAL:HG22	2.09	0.52
1:C:888:ILE:HA	1:C:891:LEU:HD12	1.91	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
1:D:1640:LYS:HG3	1:D:1641:TYR:HD1	1.72	0.52
1:E:358:PHE:C	1:E:358:PHE:CD2	2.82	0.52
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.63	0.52
2:G:1009:ASN:HB2	2:G:1012:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1947:LYS:HG2	2:G:1993:PHE:CD1	2.45	0.52
2:G:2059:HIS:HB2	2:G:2067:ILE:HG21	1.92	0.52
2:G:934:VAL:O	2:G:938:MET:HG3	2.09	0.52
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.75	0.52
2:H:1180:VAL:HG11	2:H:1187:PHE:CG	2.45	0.52
2:H:1231:THR:HG23	2:H:1595:VAL:CG2	2.34	0.52
2:H:1194:ARG:NH2	2:H:1601:ASN:CG	2.62	0.52
2:H:161:ALA:HB1	2:H:166:ASN:HB2	1.90	0.52
2:H:192:THR:O	2:H:194:PRO:HD3	2.10	0.52
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.43	0.52
2:I:388:ASN:HD22	2:I:389:PHE:N	2.08	0.52
2:I:524:ILE:HA	2:I:527:LEU:HD12	1.92	0.52
2:I:931:TYR:O	2:I:935:VAL:HG12	2.09	0.52
2:J:1224:GLN:OE1	2:J:1224:GLN:HA	2.09	0.52
2:J:1445:THR:CG2	2:J:1498:PHE:HB2	2.40	0.52
2:J:571:ASP:OD1	2:J:573:VAL:HG23	2.09	0.52
2:J:727:VAL:HA	2:J:730:ILE:HG12	1.90	0.52
2:J:979:LEU:HB2	2:J:996:ILE:HG23	1.90	0.52
2:K:1171:TRP:CD1	2:K:1172:ARG:N	2.78	0.52
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.10	0.52
2:K:1750:GLY:O	2:K:1755:LYS:HE3	2.09	0.52
2:K:2044:THR:HG22	2:K:2046:LYS:H	1.73	0.52
2:K:186:LEU:HD23	2:K:256:VAL:HG13	1.92	0.52
2:K:271:GLU:HB2	2:K:274:GLU:HG3	1.92	0.52
2:K:31:LEU:HB2	2:K:72:VAL:HG22	1.92	0.52
2:K:77:ALA:O	2:K:139:ALA:HB1	2.09	0.52
2:K:917:ARG:HD3	2:K:937:ARG:CZ	2.40	0.52
2:L:1083:ILE:HA	2:L:1086:ILE:HG13	1.92	0.52
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.74	0.52
2:L:825:SER:CB	2:L:1053:ILE:HG13	2.40	0.52
2:L:83:VAL:O	2:L:87:VAL:HG23	2.10	0.52
1:A:1052:ASP:O	1:A:1055:THR:O	2.28	0.52
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.10	0.52
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.36	0.52
1:A:799:LEU:HD12	1:A:821:LEU:HB3	1.91	0.52
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.10	0.52
1:B:1337:PRO:HA	1:B:1340:MET:HG3	1.92	0.52
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.37	0.52
1:B:905:LEU:HD22	1:B:911:LEU:CD2	2.38	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.39	0.52
1:C:1183:VAL:HG13	1:C:1252:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.91	0.52
1:C:565:GLN:HG2	1:C:565:GLN:O	2.09	0.52
1:A:1386:THR:HB	1:E:1269:SER:O	2.09	0.52
1:E:1218:VAL:HG22	1:E:1301:VAL:CG1	2.40	0.52
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.91	0.52
1:E:662:ALA:HA	1:E:694:TYR:CZ	2.44	0.52
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.44	0.52
2:G:161:ALA:HB1	2:G:166:ASN:HB2	1.92	0.52
2:G:21:LEU:HD13	2:G:36:LEU:HD21	1.91	0.52
2:G:374:GLU:CA	2:G:377:HIS:CD2	2.81	0.52
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.45	0.52
2:G:875:PHE:O	2:G:878:GLU:HB2	2.09	0.52
2:G:376:ARG:HE	2:H:1339:GLY:HA2	1.74	0.52
2:H:172:ILE:HG22	2:H:514:VAL:O	2.09	0.52
2:H:741:LEU:O	2:H:741:LEU:CG	2.58	0.52
2:H:747:ARG:NH1	2:H:780:SER:O	2.43	0.52
2:H:938:MET:O	2:H:942:MET:HG3	2.10	0.52
1:C:1670:HIS:CE1	2:I:1009:ASN:ND2	2.77	0.52
2:I:1207:THR:O	2:I:1215:THR:HG23	2.09	0.52
2:I:1610:MET:CA	2:I:1610:MET:HE2	2.33	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.40	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.24	0.52
2:I:663:ILE:HD12	2:I:663:ILE:N	2.22	0.52
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.41	0.52
2:J:1074:LYS:HG3	2:J:1075:TYR:CD1	2.45	0.52
2:J:1753:ARG:HG3	2:J:1756:ILE:CD1	2.40	0.52
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.89	0.52
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.25	0.52
2:K:1517:LEU:HD12	2:K:1521:GLU:HB2	1.90	0.52
2:K:1963:GLU:HA	2:K:1966:ARG:HB3	1.90	0.52
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.24	0.52
2:K:699:ILE:HD12	2:K:699:ILE:H	1.74	0.52
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.39	0.52
2:L:1157:VAL:HG22	2:L:1198:PRO:HD2	1.92	0.52
2:L:2044:THR:HG22	2:L:2046:LYS:H	1.74	0.52
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.39	0.52
2:L:460:ILE:O	2:L:486:ILE:HB	2.09	0.52
2:L:820:LYS:HG3	2:L:821:GLU:HG2	1.92	0.52
1:A:1213:VAL:HG22	1:A:1300:ARG:CZ	2.40	0.52
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.45	0.52
1:A:1565:PRO:O	1:A:1566:LYS:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.45	0.52
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.45	0.52
1:C:519:PHE:O	1:C:523:VAL:HG23	2.09	0.52
1:D:1211:LYS:HE3	1:D:1711:LEU:HD21	1.92	0.52
1:E:766:ALA:HA	1:E:769:ILE:HD12	1.92	0.52
1:F:1084:GLU:H	1:F:1084:GLU:CD	2.13	0.52
1:F:1451:LYS:HA	1:F:1454:ARG:NH2	2.25	0.52
1:A:551:LEU:HD21	1:F:562:SER:CB	2.39	0.52
2:G:1299:VAL:HG13	2:G:1301:PHE:CE1	2.45	0.52
2:G:1804:GLN:HB3	2:G:1861:PHE:CE1	2.45	0.52
2:G:460:ILE:O	2:G:486:ILE:HB	2.08	0.52
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.92	0.52
2:G:979:LEU:HB2	2:G:996:ILE:HG23	1.92	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:H:271:GLU:H	2:H:274:GLU:HG3	1.75	0.52
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.10	0.52
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.93	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:1171:TRP:CD1	2:J:1172:ARG:N	2.78	0.52
2:J:1248:GLU:HA	2:J:1248:GLU:OE1	2.10	0.52
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.39	0.52
2:J:35:PHE:HZ	2:J:104:LEU:HB3	1.75	0.52
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.08	0.52
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.40	0.52
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.92	0.52
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.40	0.52
2:K:250:PHE:O	2:K:315:LEU:HD23	2.10	0.52
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.45	0.52
2:K:930:THR:O	2:K:934:VAL:HG23	2.09	0.52
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.23	0.52
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.92	0.52
2:L:735:PRO:HA	2:L:773:ASN:OD1	2.10	0.52
2:L:907:ASN:OD1	2:L:913:VAL:HG12	2.09	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.37	0.52
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.92	0.52
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.40	0.52
1:A:983:GLN:O	1:A:987:MET:HG3	2.10	0.52
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.45	0.52
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.40	0.52
1:C:983:GLN:O	1:C:987:MET:HG3	2.10	0.52

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.92	0.51
2:I:726:GLN:O	2:I:730:ILE:HG12	2.10	0.51
2:J:1128:PRO:HG2	2:J:1135:ALA:CB	2.41	0.51
2:J:1370:LEU:CD1	2:J:1373:LEU:HD13	2.38	0.51
2:J:1643:VAL:CG1	2:J:1649:ILE:HD11	2.40	0.51
2:J:289:ILE:HG12	2:J:493:MET:CE	2.40	0.51
2:J:21:LEU:HA	2:J:37:VAL:O	2.10	0.51
2:J:834:ASP:O	2:J:836:PRO:HD3	2.10	0.51
2:K:1026:LYS:HE2	2:K:1045:ASP:OD2	2.10	0.51
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	2.10	0.51
2:K:1740:ASN:O	2:K:1742:PRO:HD3	2.10	0.51
2:K:2053:GLU:HA	2:K:2056:GLU:OE1	2.10	0.51
2:K:44:GLN:HG3	2:K:101:VAL:CG2	2.39	0.51
2:K:608:MET:HA	4:K:2101:FMN:N5	2.25	0.51
2:L:1232:VAL:HA	2:L:1245:THR:O	2.10	0.51
2:L:1231:THR:CG2	2:L:1595:VAL:HG11	2.39	0.51
2:L:600:VAL:HG13	2:L:601:PRO:N	2.25	0.51
2:L:825:SER:O	2:L:828:ALA:HB3	2.10	0.51
2:L:930:THR:HA	2:L:1007:LEU:HA	1.90	0.51
1:A:408:GLN:HE22	1:A:1610:ARG:H	1.58	0.51
1:A:828:TRP:HE1	1:A:838:THR:HA	1.74	0.51
1:B:754:ARG:N	1:B:810:ASN:HB3	2.25	0.51
1:B:759:ILE:HG12	1:B:813:LEU:HD23	1.93	0.51
1:C:1580:VAL:O	1:C:1617:ILE:HD11	2.09	0.51
1:C:1674:ILE:HD12	2:I:1010:ALA:CB	2.40	0.51
1:C:21:GLN:O	2:I:2006:HIS:HD2	1.93	0.51
1:C:687:PHE:CD2	1:C:687:PHE:C	2.84	0.51
1:D:1514:ILE:HD13	1:D:1545:LEU:HB3	1.91	0.51
1:E:1337:PRO:HA	1:E:1340:MET:CG	2.40	0.51
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.92	0.51
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.73	0.51
2:G:1890:ARG:HB3	2:G:1994:ALA:HB2	1.93	0.51
2:G:256:VAL:O	2:G:260:HIS:CD2	2.63	0.51
2:G:285:HIS:CD2	2:G:501:TRP:CE3	2.99	0.51
2:G:616:ASP:OD2	2:G:823:HIS:NE2	2.44	0.51
2:G:861:MET:HB2	2:G:863:GLU:HG2	1.91	0.51
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.92	0.51
2:H:192:THR:C	2:H:194:PRO:HD3	2.29	0.51
2:H:271:GLU:HB2	2:H:274:GLU:HG3	1.92	0.51
2:H:290:VAL:HG13	2:H:314:LEU:HD23	1.92	0.51
2:H:818:THR:HA	2:H:829:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.10	0.51
2:I:1468:ARG:NH1	2:I:1475:LEU:HD22	2.25	0.51
2:I:38:PRO:HG2	2:I:41:LEU:HD12	1.91	0.51
2:J:1963:GLU:HA	2:J:1966:ARG:HB3	1.92	0.51
2:J:76:VAL:O	2:J:80:ILE:HG13	2.11	0.51
2:K:1411:LYS:HB3	2:K:1435:TYR:HB2	1.90	0.51
2:K:155:ASP:HB3	2:K:278:ARG:NH1	2.25	0.51
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.51
2:K:824:THR:HG22	2:K:828:ALA:HB3	1.92	0.51
2:L:1074:LYS:HG3	2:L:1075:TYR:CD1	2.45	0.51
2:L:1729:ASN:O	2:L:1757:ILE:HG23	2.10	0.51
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.74	0.51
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.93	0.51
2:L:388:ASN:HD22	2:L:389:PHE:N	2.09	0.51
2:L:752:HIS:NE2	2:L:856:THR:HG22	2.25	0.51
2:L:931:TYR:O	2:L:935:VAL:HG12	2.10	0.51
2:L:966:VAL:O	2:L:970:PHE:HD1	1.94	0.51
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.92	0.51
1:B:448:MET:HA	1:B:448:MET:HE3	1.92	0.51
1:D:843:VAL:O	1:D:843:VAL:HG22	2.10	0.51
1:E:1218:VAL:O	1:E:1271:GLY:HA3	2.09	0.51
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.10	0.51
1:F:673:LEU:HD21	1:F:884:MET:CE	2.41	0.51
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.91	0.51
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.40	0.51
2:G:1266:HIS:CD2	2:G:1275:ARG:CZ	2.94	0.51
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.25	0.51
2:G:1421:ARG:HD2	2:G:1426:VAL:CG2	2.40	0.51
2:G:1872:GLU:OE1	2:G:1872:GLU:HA	2.09	0.51
1:B:943:VAL:CG2	2:H:1539:PRO:HG3	2.40	0.51
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.92	0.51
2:I:1411:LYS:HB2	2:I:1439:TYR:CD1	2.45	0.51
2:I:208:LEU:HD12	2:I:227:ILE:CD1	2.38	0.51
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.91	0.51
2:I:613:VAL:N	2:I:614:PRO:CD	2.73	0.51
2:I:699:ILE:N	2:I:699:ILE:HD12	2.26	0.51
2:J:1232:VAL:HA	2:J:1245:THR:O	2.11	0.51
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	2.10	0.51
2:J:1473:PHE:HE1	2:J:1513:VAL:HG21	1.75	0.51
2:J:460:ILE:O	2:J:486:ILE:HB	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:92:GLU:HB3	2:J:95:HIS:NE2	2.26	0.51
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.92	0.51
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.44	0.51
2:K:1299:VAL:HG22	2:K:1301:PHE:CD1	2.46	0.51
2:K:489:GLU:O	2:K:493:MET:HG3	2.11	0.51
2:L:1028:VAL:HG13	2:L:1030:PHE:CD2	2.46	0.51
2:L:1217:ILE:O	2:L:1233:GLU:HA	2.10	0.51
2:L:752:HIS:CE1	2:L:856:THR:HG21	2.45	0.51
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.10	0.51
1:A:1494:TRP:HE1	1:A:1509:THR:HG21	1.74	0.51
1:A:1584:GLY:HA2	1:A:1617:ILE:CD1	2.41	0.51
1:B:1565:PRO:O	1:B:1567:GLY:N	2.43	0.51
1:B:1386:THR:HG22	1:B:1629:GLN:HE21	1.74	0.51
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.45	0.51
1:C:1386:THR:HG22	1:C:1629:GLN:HE21	1.76	0.51
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.25	0.51
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.76	0.51
1:D:498:THR:HG21	1:D:858:LEU:O	2.11	0.51
1:E:1090:ASP:OD1	1:E:1092:ASN:HB2	2.10	0.51
1:E:904:GLY:HA2	1:E:906:GLN:OE1	2.11	0.51
1:F:1131:GLU:HG2	1:F:1138:TYR:CE2	2.46	0.51
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.92	0.51
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.45	0.51
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.45	0.51
2:H:1171:TRP:CH2	2:H:1236:LEU:HB2	2.45	0.51
2:H:1594:ARG:CG	2:H:1594:ARG:NH1	2.64	0.51
2:H:21:LEU:HD13	2:H:36:LEU:HD21	1.93	0.51
2:H:285:HIS:CD2	2:H:501:TRP:CE3	2.98	0.51
2:H:837:GLY:HA3	2:H:1074:LYS:HG2	1.91	0.51
2:I:1104:ASP:N	2:I:1104:ASP:OD1	2.44	0.51
2:I:1753:ARG:HG3	2:I:1756:ILE:HD11	1.93	0.51
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.24	0.51
2:I:285:HIS:CD2	2:I:501:TRP:CE3	2.98	0.51
2:I:917:ARG:HD3	2:I:937:ARG:CZ	2.39	0.51
1:D:1670:HIS:CE1	2:J:1009:ASN:ND2	2.79	0.51
2:J:1047:LEU:H	2:J:1047:LEU:HD12	1.76	0.51
2:J:1725:HIS:CD2	2:J:1854:GLU:HB3	2.46	0.51
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.93	0.51
2:K:1551:ILE:CG2	2:K:1552:GLU:N	2.73	0.51
2:K:1986:PRO:O	2:K:1987:VAL:HB	2.10	0.51
2:K:2013:GLY:C	2:K:2016:PRO:HD2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:956:ILE:HA	2:K:977:PRO:HA	1.93	0.51
1:A:1218:VAL:O	1:A:1271:GLY:HA3	2.11	0.51
1:A:1448:ALA:CA	1:A:1451:LYS:HE3	2.35	0.51
1:A:450:TYR:CD2	1:A:450:TYR:C	2.84	0.51
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.25	0.51
1:A:868:VAL:CG1	1:A:908:ILE:HD11	2.36	0.51
1:A:965:TYR:OH	1:A:1199:LEU:HD22	2.09	0.51
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.09	0.51
1:B:1640:LYS:HG3	1:B:1641:TYR:HD1	1.73	0.51
1:B:498:THR:HG21	1:B:858:LEU:O	2.11	0.51
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.74	0.51
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.10	0.51
1:D:1451:LYS:HE2	1:D:1463:GLU:OE2	2.10	0.51
1:D:782:LYS:NZ	1:D:786:LYS:HD2	2.26	0.51
1:E:1050:TRP:CE3	1:E:1050:TRP:HA	2.46	0.51
1:E:628:TYR:OH	1:E:630:LYS:HE2	2.10	0.51
1:F:1042:LEU:HD12	1:F:1058:PRO:HG3	1.92	0.51
2:G:1350:ILE:HG22	2:G:1429:VAL:HG11	1.93	0.51
2:G:1411:LYS:HB3	2:G:1435:TYR:HB2	1.91	0.51
2:G:196:PHE:H	2:G:196:PHE:HD2	1.56	0.51
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.40	0.51
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.74	0.51
2:H:1891:ILE:HD12	2:H:1895:PHE:CE2	2.45	0.51
2:H:459:LYS:O	2:H:461:PRO:HD3	2.11	0.51
2:I:1982:ALA:O	2:I:1984:PRO:HD3	2.10	0.51
1:C:24:MET:HE2	2:I:2043:VAL:HG12	1.93	0.51
2:I:752:HIS:CE1	2:I:856:THR:HG21	2.46	0.51
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.25	0.51
2:J:1217:ILE:O	2:J:1233:GLU:HA	2.10	0.51
2:J:1610:MET:CA	2:J:1610:MET:HE2	2.28	0.51
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.41	0.51
2:K:376:ARG:HH22	2:L:1340:LYS:HE3	1.75	0.51
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.92	0.51
1:A:1083:PRO:HD2	1:A:1084:GLU:OE2	2.10	0.51
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.09	0.51
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.92	0.51
1:B:1213:VAL:HG22	1:B:1300:ARG:CZ	2.40	0.51
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.38	0.51
1:C:1132:ILE:HD12	1:C:1137:GLN:HB2	1.90	0.51
1:C:1306:GLY:O	1:C:1357:CYS:HB2	2.10	0.51
1:C:418:ILE:O	1:C:418:ILE:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.10	0.51
1:D:853:MET:HG2	1:D:856:ASN:ND2	2.26	0.51
1:D:857:ASN:HA	1:D:860:ALA:HB2	1.92	0.51
1:E:1565:PRO:O	1:E:1567:GLY:N	2.44	0.51
1:E:336:PHE:O	1:E:339:GLN:HB2	2.10	0.51
1:B:579:MET:HE2	1:E:612:ILE:HD12	1.91	0.51
1:E:36:LEU:HD22	1:E:61:LEU:HD21	1.93	0.51
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.43	0.51
1:F:684:THR:HG21	1:F:691:VAL:HG11	1.93	0.51
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.09	0.51
2:G:187:ARG:NH2	2:G:230:TRP:O	2.44	0.51
2:G:613:VAL:N	2:G:614:PRO:CD	2.73	0.51
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.26	0.51
2:G:376:ARG:HH22	2:H:1340:LYS:HE3	1.75	0.51
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	1.93	0.51
2:H:699:ILE:H	2:H:699:ILE:CD1	2.24	0.51
2:I:1637:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.51
2:J:1123:ALA:O	2:J:1126:GLU:HG3	2.11	0.51
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.41	0.51
2:J:272:PRO:HG2	2:J:300:THR:O	2.10	0.51
2:J:735:PRO:HA	2:J:773:ASN:OD1	2.10	0.51
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.92	0.51
2:K:21:LEU:HD13	2:K:36:LEU:HD21	1.92	0.51
2:L:1384:PRO:CB	2:L:1829:ARG:HH12	2.24	0.51
2:L:1384:PRO:HB3	2:L:1829:ARG:NH1	2.26	0.51
2:L:1887:ASN:OD1	2:L:1889:SER:HB2	2.11	0.51
2:L:1932:ASP:O	2:L:1936:LEU:HD23	2.10	0.51
2:L:751:HIS:HB2	3:L:2102:NAP:N7N	2.24	0.51
2:L:283:THR:HG23	2:L:470:TYR:O	2.11	0.51
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.72	0.51
2:L:700:GLU:CD	2:L:700:GLU:H	2.14	0.51
1:A:1451:LYS:HA	1:A:1454:ARG:NH2	2.26	0.51
1:B:1542:LEU:HD22	1:B:1547:ARG:HD3	1.92	0.51
1:B:441:ASN:HB2	1:B:444:LEU:H	1.76	0.51
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.92	0.51
1:D:1691:ILE:HG22	1:D:1695:VAL:HG23	1.92	0.51
1:E:329:THR:O	1:E:332:GLN:HB2	2.10	0.51
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.92	0.51
1:E:571:LYS:O	1:E:575:ARG:HG2	2.11	0.51
1:F:875:GLU:O	1:F:878:PHE:HB3	2.11	0.51
1:F:960:ARG:HH11	1:F:960:ARG:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.92	0.51
2:G:1157:VAL:HG13	2:G:1197:ALA:HA	1.92	0.51
2:G:751:HIS:HB2	3:G:2102:NAP:N7N	2.26	0.51
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.91	0.51
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.25	0.51
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.41	0.51
2:H:43:PHE:CE1	2:I:42:HIS:CE1	2.98	0.51
2:H:600:VAL:HG13	2:H:601:PRO:N	2.26	0.51
2:I:1246:LEU:HD11	2:I:1261:PHE:HE1	1.75	0.51
1:C:6:GLU:HA	2:I:2050:ILE:HD11	1.92	0.51
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.40	0.51
2:J:1028:VAL:HG13	2:J:1030:PHE:CD2	2.46	0.51
2:J:1370:LEU:CA	2:J:1435:TYR:HE2	2.24	0.51
2:J:1436:ARG:HH22	2:J:1602:LEU:CD1	2.24	0.51
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.11	0.51
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.46	0.51
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.51
2:K:1203:TYR:HB3	2:K:1220:ARG:HB2	1.91	0.51
2:K:2021:LEU:O	2:K:2025:ILE:HG13	2.09	0.51
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.36	0.51
2:K:912:LYS:HB3	2:K:1030:PHE:HA	1.93	0.51
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.45	0.51
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.40	0.51
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.39	0.51
2:L:608:MET:H	2:L:612:THR:CB	2.23	0.51
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.51
2:L:903:ILE:HD11	2:L:914:TRP:CZ2	2.45	0.51
1:A:1229:THR:HB	1:A:1311:GLN:HG3	1.92	0.51
1:B:911:LEU:O	1:B:911:LEU:HD12	2.11	0.51
1:C:846:TRP:HZ2	1:C:856:ASN:O	1.93	0.51
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.11	0.51
1:D:673:LEU:HD21	1:D:884:MET:CE	2.41	0.51
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.92	0.51
1:F:987:MET:O	1:F:1490:GLY:HA3	2.11	0.51
1:F:506:ILE:HD11	1:F:926:SER:CB	2.38	0.51
1:F:537:ASN:O	1:F:541:VAL:HG23	2.10	0.51
1:F:751:GLU:OE1	1:F:770:MET:HE1	2.11	0.51
1:F:868:VAL:CG1	1:F:908:ILE:HD11	2.34	0.51
1:F:929:ARG:O	1:F:933:ILE:HG13	2.11	0.51
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.25	0.51
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.51

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1708:ASN:N	1:E:1708:ASN:OD1	2.40	0.51
1:F:1050:TRP:CE3	1:F:1050:TRP:HA	2.46	0.51
2:G:1375:HIS:CE1	2:G:1610:MET:SD	3.02	0.51
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.40	0.51
2:H:585:VAL:O	2:H:585:VAL:HG12	2.11	0.51
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.76	0.51
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.93	0.51
2:I:159:PHE:HA	2:I:162:ALA:HB3	1.92	0.51
2:I:779:GLY:HA3	2:I:811:MET:CE	2.38	0.51
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.46	0.51
2:I:929:MET:HE1	2:I:934:VAL:HG22	1.92	0.51
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.93	0.51
2:J:1986:PRO:O	2:J:1987:VAL:HB	2.11	0.51
2:J:1947:LYS:HG2	2:J:1993:PHE:CD1	2.46	0.51
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.45	0.51
2:J:756:ASP:CA	2:J:843:TRP:HH2	2.24	0.51
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.51
2:K:781:GLY:CA	2:K:1071:VAL:HG13	2.41	0.51
2:K:1175:MET:O	2:K:1192:LEU:HD12	2.11	0.51
2:K:35:PHE:HD2	2:K:37:VAL:HG22	1.76	0.51
2:K:283:THR:HG23	2:K:470:TYR:O	2.11	0.51
2:K:728:ILE:HG22	2:K:732:LYS:HE3	1.93	0.51
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.94	0.51
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.03	0.51
2:L:1725:HIS:CD2	2:L:1854:GLU:HB3	2.45	0.51
2:L:2039:TYR:O	2:L:2041:PRO:HD3	2.10	0.51
1:A:1129:ILE:HA	1:A:1139:THR:O	2.11	0.51
1:A:1335:ARG:HH11	1:A:1339:GLU:HG2	1.75	0.51
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.93	0.51
1:B:755:GLU:HB2	1:B:757:ASP:HB2	1.92	0.51
1:C:1495:ARG:HG2	1:C:1495:ARG:HH11	1.76	0.51
1:C:334:ALA:O	1:C:338:GLN:HG3	2.11	0.51
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.91	0.51
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.46	0.51
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.10	0.51
1:D:1443:LEU:HD22	1:D:1474:ILE:HD11	1.92	0.51
1:D:967:PHE:CE2	1:D:1662:GLN:CA	2.94	0.51
1:D:716:GLN:NE2	1:D:747:ALA:HB3	2.26	0.51
1:D:868:VAL:HG11	1:D:908:ILE:CD1	2.36	0.51
1:E:768:ARG:HA	1:E:772:THR:OG1	2.11	0.51
1:F:1017:TYR:HD1	1:F:1017:TYR:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1443:LEU:HD22	1:F:1474:ILE:HD11	1.92	0.51
1:F:1448:ALA:CA	1:F:1451:LYS:HE3	2.36	0.51
2:G:1180:VAL:HG11	2:G:1187:PHE:CG	2.45	0.51
2:G:1551:ILE:CG2	2:G:1552:GLU:N	2.74	0.51
2:G:315:LEU:HA	2:G:318:ILE:HD12	1.94	0.51
2:G:35:PHE:HZ	2:G:104:LEU:HB3	1.75	0.51
2:G:798:THR:HA	2:G:802:TYR:O	2.11	0.51
2:G:930:THR:CG2	2:G:933:GLU:H	2.23	0.51
2:G:92:GLU:HB3	2:G:95:HIS:NE2	2.26	0.51
1:A:955:VAL:HG11	2:G:964:ARG:HE	1.76	0.51
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.39	0.51
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.26	0.51
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.92	0.51
2:I:979:LEU:HB2	2:I:996:ILE:HG23	1.91	0.51
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.11	0.51
2:J:1047:LEU:N	2:J:1047:LEU:HD12	2.26	0.51
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.45	0.51
2:K:1019:LEU:HA	2:K:1022:ARG:HD2	1.92	0.51
2:K:329:THR:HG22	2:L:1331:THR:O	2.11	0.51
2:L:1538:ASN:HB3	2:L:1541:ILE:CG2	2.41	0.51
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.93	0.51
2:L:409:LYS:HB3	2:L:428:PHE:CZ	2.45	0.51
2:L:611:THR:HA	2:L:1051:GLU:OE2	2.11	0.51
2:L:911:GLN:NE2	2:L:1065:CYS:H	2.09	0.51
1:A:524:LYS:O	1:A:527:ALA:N	2.44	0.50
1:A:533:SER:O	1:A:611:THR:HA	2.11	0.50
1:A:911:LEU:O	1:A:911:LEU:HD12	2.11	0.50
1:B:1084:GLU:H	1:B:1084:GLU:CD	2.14	0.50
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.40	0.50
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.50
1:C:1514:ILE:HD13	1:C:1545:LEU:HB3	1.93	0.50
1:C:382:ILE:HD12	1:C:761:SER:HB3	1.92	0.50
1:C:498:THR:CG2	1:C:858:LEU:HA	2.36	0.50
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.26	0.50
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.92	0.50
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.24	0.50
1:F:22:PHE:HE1	2:L:1867:MET:HG3	1.76	0.50
1:F:755:GLU:HB2	1:F:757:ASP:HB2	1.92	0.50
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.41	0.50
2:G:1553:GLN:HB3	2:G:1554:PRO:CD	2.41	0.50
2:G:608:MET:HA	4:G:2101:FMN:N5	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.41	0.50
2:H:728:ILE:O	2:H:732:LYS:HG3	2.11	0.50
2:H:950:TRP:CE2	2:H:956:LYS:HG3	2.46	0.50
2:I:1248:GLU:OE2	2:I:1250:ARG:NE	2.43	0.50
2:I:167:VAL:CG2	2:I:169:ILE:HG13	2.40	0.50
2:J:1551:ILE:CG2	2:J:1552:GLU:N	2.74	0.50
2:J:2057:GLU:HA	2:J:2060:ARG:HH12	1.74	0.50
2:J:290:VAL:CG1	2:J:314:LEU:HD23	2.41	0.50
2:K:1171:TRP:CE3	2:K:1236:LEU:HD22	2.46	0.50
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.50
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.76	0.50
2:K:611:THR:HA	2:K:1051:GLU:OE2	2.11	0.50
2:K:614:PRO:O	2:K:618:VAL:HG12	2.11	0.50
2:K:859:SER:HB3	2:K:863:GLU:HG3	1.92	0.50
2:L:1370:LEU:CD1	2:L:1373:LEU:HD13	2.40	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.11	0.50
2:L:1411:LYS:HB3	2:L:1435:TYR:HB2	1.92	0.50
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.11	0.50
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.11	0.50
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.25	0.50
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.92	0.50
2:L:727:VAL:HA	2:L:730:ILE:HG12	1.93	0.50
2:L:604:MET:CE	2:L:811:MET:HB2	2.41	0.50
1:A:1079:ARG:NH1	1:A:1079:ARG:CG	2.68	0.50
1:C:1565:PRO:O	1:C:1566:LYS:C	2.50	0.50
1:C:1584:GLY:HA2	1:C:1617:ILE:CD1	2.41	0.50
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.41	0.50
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.94	0.50
1:E:1494:TRP:HE1	1:E:1509:THR:HG21	1.75	0.50
1:F:1229:THR:HB	1:F:1311:GLN:HG3	1.94	0.50
1:F:383:TYR:O	1:F:387:ILE:HG12	2.11	0.50
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.40	0.50
2:G:1028:VAL:HG13	2:G:1030:PHE:CD2	2.45	0.50
2:G:580:LEU:HG	2:G:1098:LEU:HD23	1.93	0.50
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.40	0.50
2:G:490:LEU:HA	2:G:493:MET:SD	2.51	0.50
2:H:1421:ARG:HD2	2:H:1426:VAL:CG2	2.41	0.50
2:H:167:VAL:C	2:H:168:LYS:HD2	2.32	0.50
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.40	0.50
2:H:824:THR:HG22	2:H:828:ALA:HB3	1.93	0.50
2:H:966:VAL:O	2:H:970:PHE:HD1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1171:TRP:CH2	2:I:1236:LEU:HB2	2.46	0.50
2:I:1232:VAL:HA	2:I:1245:THR:O	2.11	0.50
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.10	0.50
2:I:76:VAL:O	2:I:80:ILE:HG13	2.10	0.50
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	1.92	0.50
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.77	0.50
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.40	0.50
2:K:1845:VAL:CG2	2:K:1856:LEU:HD22	2.39	0.50
2:K:1881:TYR:CZ	2:K:2009:PHE:HE1	2.29	0.50
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.93	0.50
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.76	0.50
2:K:21:LEU:HD22	2:K:36:LEU:HG	1.93	0.50
2:L:589:PHE:CD1	2:L:1116:PHE:CD2	2.99	0.50
2:L:168:LYS:H	2:L:511:THR:HB	1.76	0.50
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.11	0.50
2:L:2021:LEU:HD22	2:L:2025:ILE:HD11	1.93	0.50
2:L:609:THR:HG23	4:L:2101:FMN:O4	2.11	0.50
2:L:21:LEU:HD22	2:L:36:LEU:HG	1.91	0.50
1:A:883:LEU:HD23	1:A:883:LEU:N	2.27	0.50
1:B:766:ALA:HA	1:B:769:ILE:HD12	1.94	0.50
1:C:754:ARG:N	1:C:810:ASN:HB3	2.26	0.50
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.41	0.50
1:D:1307:PHE:HB3	1:D:1357:CYS:HB3	1.92	0.50
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.94	0.50
1:E:801:LEU:HD13	1:E:822:GLU:HG2	1.93	0.50
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.11	0.50
2:G:1074:LYS:HG3	2:G:1075:TYR:CD1	2.47	0.50
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.41	0.50
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.77	0.50
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.27	0.50
2:G:1340:LYS:CG	2:I:376:ARG:NH2	2.73	0.50
2:G:1378:ASN:HB3	2:G:1610:MET:HE3	1.93	0.50
2:G:1328:VAL:HA	2:G:1611:TYR:HE1	1.76	0.50
2:G:197:VAL:HA	2:G:262:MET:HE1	1.93	0.50
2:G:361:VAL:O	2:G:365:ILE:HG13	2.12	0.50
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.76	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.11	0.50
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.41	0.50
2:H:35:PHE:HD2	2:H:37:VAL:HG22	1.76	0.50
2:H:700:GLU:H	2:H:700:GLU:CD	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1074:LYS:HG3	2:I:1075:TYR:CD1	2.46	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.94	0.50
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	1.94	0.50
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.93	0.50
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.41	0.50
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.25	0.50
2:I:459:LYS:O	2:I:461:PRO:HD3	2.10	0.50
2:I:489:GLU:O	2:I:493:MET:HG3	2.11	0.50
2:I:882:LYS:HB3	2:I:898:ARG:NH1	2.26	0.50
2:J:1603:PRO:HD2	2:J:1606:ILE:HD11	1.93	0.50
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.38	0.50
2:J:192:THR:O	2:J:194:PRO:HD3	2.11	0.50
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.93	0.50
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.46	0.50
2:K:1180:VAL:HA	2:K:1188:GLN:O	2.11	0.50
2:K:1194:ARG:HH21	2:K:1601:ASN:CG	2.15	0.50
2:K:1738:VAL:HA	2:K:1800:LEU:HD13	1.93	0.50
2:K:1555:VAL:HG21	2:K:1824:LYS:HA	1.94	0.50
2:K:663:ILE:HD12	2:K:663:ILE:N	2.26	0.50
2:K:727:VAL:HA	2:K:730:ILE:HG12	1.92	0.50
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.42	0.50
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.11	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG3	1.93	0.50
1:A:1241:LEU:HD23	1:E:1097:LEU:HD12	1.93	0.50
1:A:405:TRP:CH2	1:A:1609:SER:HB3	2.47	0.50
1:A:519:PHE:O	1:A:523:VAL:HG23	2.12	0.50
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.12	0.50
1:B:879:ASN:HB3	1:B:901:LEU:HD13	1.93	0.50
1:C:746:PHE:HB3	3:C:1901:NAP:H52N	1.92	0.50
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.47	0.50
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.50
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.94	0.50
1:D:799:LEU:HD12	1:D:821:LEU:HB3	1.93	0.50
1:E:414:TYR:CE2	1:E:418:ILE:HD11	2.47	0.50
1:E:940:ASN:HB3	1:E:949:GLU:OE2	2.12	0.50
1:F:408:GLN:HG2	1:F:1610:ARG:NH1	2.25	0.50
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.97	0.50
2:G:622:MET:O	2:G:656:ARG:NH1	2.44	0.50
2:G:752:HIS:CE1	2:G:856:THR:HG21	2.46	0.50
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.50
2:H:196:PHE:H	2:H:196:PHE:HD2	1.59	0.50

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1468:ARG:NH1	2:J:1475:LEU:HD22	2.25	0.50
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.46	0.50
2:J:613:VAL:N	2:J:614:PRO:CD	2.75	0.50
2:J:685:VAL:CG1	2:J:687:ILE:HG13	2.40	0.50
2:J:825:SER:CB	2:J:1053:ILE:HG13	2.41	0.50
2:J:930:THR:O	2:J:934:VAL:HG23	2.11	0.50
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.92	0.50
2:K:825:SER:O	2:K:828:ALA:HB3	2.10	0.50
2:K:917:ARG:HB2	2:K:937:ARG:HD3	1.93	0.50
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.40	0.50
2:L:728:ILE:HG22	2:L:732:LYS:HE3	1.93	0.50
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.46	0.50
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.94	0.50
1:A:329:THR:O	1:A:332:GLN:HB2	2.12	0.50
1:B:875:GLU:O	1:B:878:PHE:HB3	2.11	0.50
1:C:1599:MET:HA	1:C:1602:PHE:CD2	2.46	0.50
1:D:1599:MET:HA	1:D:1602:PHE:CD2	2.47	0.50
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.47	0.50
1:E:1131:GLU:HG2	1:E:1138:TYR:CE2	2.47	0.50
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.93	0.50
1:B:585:MET:HG2	1:E:577:LEU:HD23	1.93	0.50
1:E:883:LEU:HA	1:E:888:ILE:HD12	1.93	0.50
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.74	0.50
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.45	0.50
2:G:1464:LEU:HD13	2:G:1468:ARG:HG3	1.93	0.50
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.10	0.50
2:G:1769:VAL:HG22	2:G:1775:ILE:CA	2.35	0.50
2:G:409:LYS:HB3	2:G:428:PHE:CZ	2.46	0.50
2:H:1436:ARG:HH22	2:H:1602:LEU:CD1	2.24	0.50
2:H:187:ARG:NH2	2:H:230:TRP:O	2.45	0.50
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.46	0.50
2:I:1224:GLN:OE1	2:I:1224:GLN:HA	2.11	0.50
2:I:1845:VAL:CG2	2:I:1856:LEU:HD22	2.41	0.50
2:I:2039:TYR:O	2:I:2041:PRO:HD3	2.11	0.50
2:I:605:VAL:CB	2:I:628:ILE:HG13	2.38	0.50
2:I:824:THR:HG22	2:I:828:ALA:HB3	1.93	0.50
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.92	0.50
2:J:1317:ASN:HB3	2:J:1320:ALA:CB	2.40	0.50
2:J:1497:ARG:O	2:J:1505:SER:HB3	2.11	0.50
2:J:1643:VAL:HG13	2:J:1649:ILE:HD11	1.93	0.50
2:J:1725:HIS:CD2	2:J:1854:GLU:CB	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:187:ARG:NH2	2:J:230:TRP:O	2.44	0.50
2:J:1969:LEU:HA	2:J:1972:ILE:HD12	1.93	0.50
2:J:21:LEU:HD13	2:J:36:LEU:HD21	1.93	0.50
2:J:741:LEU:CG	2:J:741:LEU:O	2.60	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.41	0.50
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.46	0.50
2:K:126:VAL:HG12	2:K:127:ALA:H	1.77	0.50
2:J:376:ARG:HE	2:K:1339:GLY:HA2	1.76	0.50
2:K:1769:VAL:HG13	2:K:1774:SER:C	2.32	0.50
2:K:204:ILE:CG2	2:K:312:VAL:HG11	2.41	0.50
2:K:376:ARG:HH22	2:L:1340:LYS:CE	2.24	0.50
2:K:930:THR:CG2	2:K:933:GLU:HG3	2.38	0.50
2:K:938:MET:O	2:K:942:MET:HG3	2.11	0.50
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.67	0.50
2:L:192:THR:O	2:L:194:PRO:HD3	2.11	0.50
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.92	0.50
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.94	0.50
1:A:1207:TYR:CE2	1:A:1682:LYS:HD2	2.47	0.50
1:A:889:VAL:O	1:A:893:GLN:HG3	2.12	0.50
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.93	0.50
1:B:684:THR:HG21	1:B:691:VAL:HG11	1.94	0.50
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.46	0.50
1:D:1017:TYR:CD1	1:D:1017:TYR:N	2.80	0.50
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.11	0.50
1:D:847:THR:OG1	1:D:876:MET:HG3	2.11	0.50
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.93	0.50
1:F:1183:VAL:HG13	1:F:1252:GLU:OE1	2.11	0.50
1:F:1338:GLY:C	1:F:1340:MET:H	2.15	0.50
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.26	0.50
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.47	0.50
2:G:1456:LEU:HD11	2:G:1543:TYR:CE2	2.45	0.50
2:G:1603:PRO:HD2	2:G:1606:ILE:HD11	1.94	0.50
2:G:317:TRP:O	2:G:321:ARG:HG2	2.12	0.50
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.50
2:G:571:ASP:HB3	2:G:574:LYS:HB2	1.93	0.50
2:G:605:VAL:CB	2:G:628:ILE:HG13	2.38	0.50
2:G:917:ARG:HG2	2:G:917:ARG:HH11	1.67	0.50
2:H:1026:LYS:HE2	2:H:1045:ASP:OD2	2.12	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:785:SER:HB3	2:H:1090:ILE:HG23	1.94	0.50
2:H:1266:HIS:CD2	2:H:1275:ARG:CZ	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1982:ALA:O	2:H:1984:PRO:HD3	2.11	0.50
2:H:250:PHE:O	2:H:315:LEU:HD23	2.11	0.50
2:H:276:LEU:HD21	2:H:296:ALA:HA	1.93	0.50
2:H:613:VAL:HG13	2:H:614:PRO:CD	2.42	0.50
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.47	0.50
2:I:271:GLU:HB2	2:I:274:GLU:HG3	1.94	0.50
2:I:374:GLU:CA	2:I:377:HIS:CD2	2.78	0.50
2:I:22:ARG:HD2	2:I:42:HIS:HB3	1.93	0.50
2:I:818:THR:HG22	2:I:829:LYS:CB	2.41	0.50
2:I:952:ASP:OD1	2:I:953:PRO:HD2	2.12	0.50
2:I:962:PHE:O	2:I:965:ARG:HB3	2.10	0.50
2:J:1026:LYS:HG3	3:J:2102:NAP:N7A	2.26	0.50
2:J:1083:ILE:HA	2:J:1086:ILE:HG13	1.92	0.50
2:J:1299:VAL:HG22	2:J:1301:PHE:CD1	2.47	0.50
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.76	0.50
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.26	0.50
2:J:824:THR:HG22	2:J:828:ALA:HB3	1.93	0.50
2:J:937:ARG:NE	2:J:941:LEU:CD1	2.75	0.50
2:K:1411:LYS:HB2	2:K:1439:TYR:CD1	2.47	0.50
2:K:2008:THR:HG22	2:K:2011:ARG:HE	1.76	0.50
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.50
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.40	0.50
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.32	0.50
2:L:21:LEU:HD13	2:L:36:LEU:HD21	1.93	0.50
2:L:451:ILE:O	2:L:455:VAL:HG23	2.11	0.50
2:L:670:MET:HB2	2:L:674:ILE:HD12	1.94	0.50
1:A:904:GLY:HA2	1:A:906:GLN:OE1	2.12	0.50
1:B:628:TYR:HD1	1:B:629:SER:N	2.10	0.50
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.93	0.50
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.12	0.50
1:D:330:LYS:HG3	1:D:333:ARG:HH12	1.74	0.50
1:E:1623:THR:HG22	1:E:1633:GLN:HB2	1.94	0.50
1:E:1708:ASN:HD21	1:E:1712:LYS:NZ	2.10	0.50
1:E:430:VAL:O	1:E:434:ILE:HG13	2.12	0.50
2:G:1725:HIS:CD2	2:G:1854:GLU:HB3	2.45	0.50
2:G:1753:ARG:HG3	2:G:1756:ILE:HD11	1.94	0.50
2:G:762:LEU:HD11	2:G:800:PHE:CD2	2.46	0.50
2:G:825:SER:O	2:G:828:ALA:HB3	2.12	0.50
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.42	0.50
2:H:1232:VAL:HA	2:H:1245:THR:O	2.12	0.50
2:H:1946:LEU:HD22	2:H:1951:ILE:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.18	0.50
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.41	0.50
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.47	0.50
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.76	0.50
2:I:1180:VAL:HA	2:I:1188:GLN:O	2.11	0.50
2:I:1551:ILE:CG2	2:I:1552:GLU:N	2.75	0.50
2:I:1872:GLU:HA	2:I:1872:GLU:OE1	2.11	0.50
2:I:271:GLU:H	2:I:274:GLU:HG3	1.76	0.50
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.93	0.50
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.42	0.50
2:J:1120:ILE:HD13	2:J:1173:HIS:CE1	2.47	0.50
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.12	0.50
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	1.94	0.50
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.33	0.50
2:J:35:PHE:HD2	2:J:37:VAL:HG22	1.77	0.50
2:J:502:GLU:O	2:J:506:VAL:HG23	2.12	0.50
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.42	0.50
2:K:1236:LEU:HD12	2:K:1241:GLU:O	2.12	0.50
2:K:1442:TYR:CG	2:K:1499:LYS:O	2.65	0.50
2:K:1887:ASN:OD1	2:K:1889:SER:HB2	2.12	0.50
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.27	0.50
2:L:1180:VAL:HA	2:L:1188:GLN:O	2.11	0.50
2:L:613:VAL:HG13	2:L:614:PRO:HD3	1.94	0.50
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.27	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.95	0.50
1:A:1082:GLU:HB2	1:A:1085:LEU:HD12	1.93	0.50
1:B:1183:VAL:HG11	1:B:1187:THR:CG2	2.41	0.50
1:B:1584:GLY:HA2	1:B:1617:ILE:CD1	2.41	0.50
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.39	0.50
1:B:569:LEU:HD22	1:E:544:ASP:HB3	1.94	0.50
1:C:1042:LEU:HD12	1:C:1058:PRO:HG3	1.94	0.50
1:C:1451:LYS:HE2	1:C:1463:GLU:OE2	2.11	0.50
1:C:1705:GLN:HA	1:C:1711:LEU:HD23	1.94	0.50
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.47	0.50
1:C:960:ARG:NH1	2:I:968:GLU:CD	2.64	0.50
1:E:985:ARG:HB3	1:E:1422:ARG:HH22	1.76	0.50
1:C:1121:ARG:NH1	1:F:1153:ALA:O	2.45	0.50
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.32	0.50
1:F:36:LEU:HD22	1:F:61:LEU:HD21	1.94	0.50
1:F:768:ARG:HA	1:F:772:THR:OG1	2.12	0.50
2:G:1083:ILE:HA	2:G:1086:ILE:HG13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1946:LEU:HD22	2:G:1951:ILE:HG12	1.94	0.50
2:H:1047:LEU:N	2:H:1047:LEU:HD12	2.27	0.50
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.42	0.50
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.26	0.50
2:H:1551:ILE:CG2	2:H:1552:GLU:N	2.74	0.50
2:H:1821:MET:HA	2:H:1826:LEU:HD12	1.93	0.50
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.93	0.50
2:H:609:THR:CG2	2:H:633:GLY:HA3	2.42	0.50
2:H:796:TRP:HH2	2:H:805:MET:HE1	1.73	0.50
2:I:1128:PRO:HG2	2:I:1135:ALA:CB	2.42	0.50
2:I:21:LEU:HA	2:I:37:VAL:O	2.12	0.50
2:I:357:THR:HG22	2:I:359:SER:H	1.77	0.50
2:I:409:LYS:HB3	2:I:428:PHE:CZ	2.46	0.50
2:I:618:VAL:HG11	2:I:648:ILE:HD11	1.93	0.50
2:I:614:PRO:O	2:I:618:VAL:HG12	2.11	0.50
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.47	0.50
1:C:960:ARG:HH11	2:I:968:GLU:HB3	1.75	0.50
2:J:1026:LYS:HE2	2:J:1045:ASP:OD2	2.12	0.50
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.47	0.50
2:J:1157:VAL:HG13	2:J:1197:ALA:HA	1.93	0.50
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.10	0.50
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.32	0.50
2:K:21:LEU:HA	2:K:37:VAL:O	2.11	0.50
2:K:178:ASN:HA	2:K:434:PRO:HG2	1.94	0.50
2:K:465:LEU:HB2	2:K:479:ARG:CG	2.42	0.50
2:L:123:ALA:O	2:L:126:VAL:HG23	2.11	0.50
2:L:1370:LEU:CA	2:L:1435:TYR:HE2	2.24	0.50
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.50
2:L:31:LEU:HB2	2:L:72:VAL:HG22	1.94	0.50
1:A:1223:GLY:CA	1:A:1276:PRO:HD2	2.42	0.49
1:A:20:TYR:CE2	2:G:2062:THR:HG23	2.47	0.49
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.47	0.49
1:C:498:THR:HG21	1:C:858:LEU:O	2.12	0.49
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.47	0.49
1:E:1164:ILE:HD12	1:E:1355:GLN:HG3	1.92	0.49
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.92	0.49
1:E:1705:GLN:HA	1:E:1711:LEU:HD23	1.94	0.49
1:E:536:SER:HB3	1:E:540:LYS:HB3	1.94	0.49
1:E:929:ARG:O	1:E:933:ILE:HG13	2.11	0.49
1:F:1160:VAL:C	1:F:1352:MET:HE1	2.32	0.49
1:F:329:THR:O	1:F:332:GLN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:GLN:HE21	1:F:472:GLN:HA	1.77	0.49
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.92	0.49
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.94	0.49
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.94	0.49
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.49
2:G:1234:ILE:HG12	2:G:1244:LEU:HD13	1.94	0.49
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.42	0.49
2:G:1891:ILE:HD12	2:G:1895:PHE:CE2	2.47	0.49
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.93	0.49
2:G:21:LEU:HA	2:G:37:VAL:O	2.11	0.49
2:G:609:THR:HG22	2:G:633:GLY:HA3	1.94	0.49
2:G:690:LEU:HD22	2:G:691:THR:N	2.27	0.49
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.42	0.49
2:H:420:PRO:HG3	2:H:847:TYR:CD1	2.46	0.49
2:H:604:MET:HE1	2:H:811:MET:HB2	1.93	0.49
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.93	0.49
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.93	0.49
2:I:1157:VAL:HG13	2:I:1197:ALA:HA	1.94	0.49
2:I:1456:LEU:HD11	2:I:1543:TYR:CE2	2.43	0.49
2:I:1436:ARG:HH22	2:I:1602:LEU:CD1	2.22	0.49
2:I:1946:LEU:HD22	2:I:1951:ILE:HG12	1.94	0.49
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.74	0.49
2:J:44:GLN:HG3	2:J:101:VAL:CG2	2.41	0.49
2:J:102:LEU:O	2:J:106:LEU:HG	2.12	0.49
2:J:1594:ARG:CG	2:J:1594:ARG:NH1	2.62	0.49
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.94	0.49
2:K:1436:ARG:NH2	2:K:1602:LEU:CD1	2.75	0.49
2:K:2021:LEU:HD22	2:K:2025:ILE:HD11	1.94	0.49
2:K:604:MET:CE	2:K:811:MET:HB2	2.41	0.49
2:L:1299:VAL:HG22	2:L:1301:PHE:CD1	2.46	0.49
2:L:1411:LYS:HB2	2:L:1439:TYR:CD1	2.47	0.49
2:L:1464:LEU:HD13	2:L:1468:ARG:HG3	1.93	0.49
2:L:1821:MET:HA	2:L:1826:LEU:HD12	1.93	0.49
2:L:520:GLY:C	2:L:522:SER:H	2.15	0.49
2:L:77:ALA:O	2:L:139:ALA:HB1	2.12	0.49
1:A:1011:ARG:NH1	1:A:1012:TRP:HA	2.27	0.49
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.13	0.49
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.43	0.49
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.94	0.49
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.49
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.68	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1142:LEU:H	1:C:1142:LEU:HD12	1.76	0.49
1:C:1150:ILE:HG12	1:F:1148:LEU:HD21	1.94	0.49
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.47	0.49
1:D:414:TYR:CE2	1:D:418:ILE:HD11	2.47	0.49
1:E:1017:TYR:N	1:E:1017:TYR:HD1	2.10	0.49
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.12	0.49
1:E:755:GLU:HB2	1:E:757:ASP:HB2	1.94	0.49
1:F:754:ARG:N	1:F:810:ASN:HB3	2.26	0.49
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.94	0.49
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.94	0.49
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.47	0.49
2:G:489:GLU:O	2:G:493:MET:HG3	2.12	0.49
2:G:728:ILE:HG22	2:G:732:LYS:HE3	1.94	0.49
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.94	0.49
2:H:1157:VAL:HG22	2:H:1198:PRO:HD2	1.94	0.49
2:H:1637:VAL:HG11	2:H:1679:LEU:CD1	2.36	0.49
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.93	0.49
2:H:1986:PRO:O	2:H:1987:VAL:HB	2.12	0.49
2:I:1500:ASN:HB2	2:I:1503:VAL:H	1.77	0.49
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	2.27	0.49
2:K:1305:LEU:H	2:K:1305:LEU:CD1	2.22	0.49
2:K:1643:VAL:HG13	2:K:1649:ILE:HD11	1.94	0.49
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.12	0.49
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	1.94	0.49
2:K:330:SER:H	2:L:1331:THR:HG22	1.77	0.49
2:L:1986:PRO:O	2:L:1987:VAL:HB	2.11	0.49
2:L:317:TRP:O	2:L:321:ARG:HG2	2.13	0.49
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.73	0.49
2:L:604:MET:HE1	2:L:811:MET:HB2	1.94	0.49
2:L:929:MET:CE	2:L:934:VAL:HA	2.41	0.49
1:A:849:GLY:HA3	1:A:873:GLN:HG3	1.94	0.49
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.47	0.49
1:C:1579:GLN:O	1:C:1583:THR:HG23	2.11	0.49
1:C:24:MET:HB3	2:I:2043:VAL:HG12	1.94	0.49
1:C:486:VAL:HG13	1:C:648:LEU:H	1.77	0.49
1:B:1153:ALA:O	1:D:1121:ARG:NH1	2.43	0.49
1:D:1183:VAL:HG13	1:D:1252:GLU:OE1	2.12	0.49
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.75	0.49
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.69	0.49
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	1.94	0.49
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.42	0.49
2:G:756:ASP:CA	2:G:843:TRP:HH2	2.25	0.49
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.47	0.49
2:H:1217:ILE:O	2:H:1233:GLU:HA	2.12	0.49
2:H:1725:HIS:CD2	2:H:1854:GLU:CB	2.96	0.49
2:H:465:LEU:HB2	2:H:479:ARG:HG3	1.94	0.49
2:H:776:LEU:HG	2:H:807:PHE:CE2	2.47	0.49
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.47	0.49
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.27	0.49
2:I:611:THR:HA	2:I:1051:GLU:OE2	2.12	0.49
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.95	0.49
2:J:221:TYR:CE2	2:J:225:LEU:HD22	2.47	0.49
2:J:92:GLU:HA	2:J:95:HIS:CE1	2.48	0.49
2:K:1142:ILE:HG13	2:K:1209:PRO:HG2	1.94	0.49
2:J:329:THR:HG21	2:K:1333:GLU:CB	2.41	0.49
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.28	0.49
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.12	0.49
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.93	0.49
2:K:416:GLN:HE22	2:K:425:LYS:H	1.60	0.49
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.47	0.49
2:K:92:GLU:HB3	2:K:95:HIS:NE2	2.27	0.49
2:L:208:LEU:HD12	2:L:227:ILE:CD1	2.41	0.49
2:L:44:GLN:HG3	2:L:101:VAL:CG2	2.42	0.49
1:A:336:PHE:O	1:A:339:GLN:HB2	2.12	0.49
1:B:1335:ARG:HH11	1:B:1339:GLU:HG2	1.77	0.49
1:B:1405:ARG:HA	1:D:1697:LEU:O	2.12	0.49
1:B:519:PHE:O	1:B:523:VAL:HG23	2.12	0.49
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.11	0.49
1:C:1363:MET:HE3	1:C:1368:ALA:CB	2.42	0.49
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.42	0.49
1:D:1100:VAL:HG21	1:D:1150:ILE:CD1	2.43	0.49
1:D:336:PHE:O	1:D:339:GLN:HB2	2.13	0.49
1:D:628:TYR:OH	1:D:630:LYS:HG2	2.13	0.49
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.95	0.49
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.12	0.49
1:E:506:ILE:HD11	1:E:926:SER:HB3	1.93	0.49
1:F:1293:THR:HG23	1:F:1298:LYS:HB2	1.95	0.49
1:F:17:LEU:HD23	2:L:2043:VAL:CG2	2.42	0.49
2:G:126:VAL:HG12	2:G:127:ALA:H	1.75	0.49
2:G:1299:VAL:HG22	2:G:1301:PHE:CD1	2.48	0.49
2:G:1336:VAL:O	2:G:1336:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1468:ARG:NH1	2:G:1475:LEU:HD22	2.28	0.49
2:G:1752:PRO:O	2:G:1756:ILE:HG23	2.12	0.49
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.41	0.49
2:G:2021:LEU:O	2:G:2025:ILE:HG13	2.12	0.49
2:G:271:GLU:HB2	2:G:274:GLU:HG3	1.94	0.49
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.48	0.49
2:H:1456:LEU:HD11	2:H:1543:TYR:CE2	2.45	0.49
2:H:1500:ASN:HB2	2:H:1503:VAL:H	1.78	0.49
2:H:1620:VAL:O	2:H:1624:ALA:HB3	2.12	0.49
2:H:1865:LEU:O	2:H:1869:VAL:HG22	2.12	0.49
2:H:798:THR:HA	2:H:802:TYR:O	2.11	0.49
2:H:907:ASN:OD1	2:H:913:VAL:HG12	2.12	0.49
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.42	0.49
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.12	0.49
2:I:1750:GLY:N	2:I:1754:GLY:HA3	2.27	0.49
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.12	0.49
2:I:685:VAL:CG1	2:I:687:ILE:HG13	2.38	0.49
2:J:1734:ILE:O	2:J:1738:VAL:HG23	2.12	0.49
2:J:1752:PRO:O	2:J:1756:ILE:HG23	2.12	0.49
2:J:820:LYS:HG3	2:J:821:GLU:HG2	1.94	0.49
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.47	0.49
2:K:1028:VAL:HG13	2:K:1030:PHE:CD2	2.47	0.49
2:K:580:LEU:HG	2:K:1098:LEU:HD23	1.95	0.49
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.76	0.49
2:K:1317:ASN:HB3	2:K:1320:ALA:CB	2.42	0.49
2:J:376:ARG:NH2	2:K:1340:LYS:CG	2.76	0.49
2:K:1370:LEU:HA	2:K:1435:TYR:CE2	2.48	0.49
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.47	0.49
2:K:512:HIS:HE1	2:K:566:VAL:HG13	1.77	0.49
2:L:1231:THR:HG23	2:L:1595:VAL:CG2	2.37	0.49
2:L:1350:ILE:HG22	2:L:1429:VAL:HG11	1.94	0.49
2:L:1805:PHE:O	2:L:1808:PRO:HD2	2.11	0.49
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.27	0.49
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.41	0.49
2:L:888:ARG:O	2:L:891:ARG:HB2	2.11	0.49
2:L:915:PHE:CD2	2:L:915:PHE:O	2.66	0.49
1:A:1075:HIS:HB3	1:A:1166:THR:HB	1.94	0.49
1:A:68:TYR:HD1	2:I:371:HIS:CD2	2.29	0.49
1:B:1017:TYR:N	1:B:1017:TYR:HD1	2.10	0.49
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.49
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:628:TYR:OH	1:B:630:LYS:HE2	2.12	0.49
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.47	0.49
1:C:358:PHE:C	1:C:358:PHE:CD2	2.85	0.49
1:D:1337:PRO:HA	1:D:1340:MET:HG3	1.95	0.49
1:D:542:GLN:CB	1:D:579:MET:HE2	2.17	0.49
1:E:965:TYR:OH	1:E:1199:LEU:HD22	2.11	0.49
1:E:1330:GLU:OE2	1:E:1342:ARG:NH2	2.45	0.49
1:E:1691:ILE:HG22	1:E:1695:VAL:HG23	1.94	0.49
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.95	0.49
1:F:504:GLY:HA2	1:F:929:ARG:HD2	1.94	0.49
2:G:1279:GLU:CD	2:G:1279:GLU:H	2.15	0.49
2:G:1370:LEU:HA	2:G:1435:TYR:CE2	2.45	0.49
2:G:1594:ARG:NH1	2:G:1594:ARG:CG	2.65	0.49
2:H:472:THR:HG23	2:H:499:VAL:HA	1.94	0.49
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.28	0.49
2:H:978:SER:O	2:H:981:GLN:HG2	2.12	0.49
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.41	0.49
2:I:1603:PRO:HD2	2:I:1606:ILE:HD11	1.94	0.49
2:I:221:TYR:CE2	2:I:225:LEU:HD22	2.48	0.49
2:J:1180:VAL:CG1	2:J:1188:GLN:H	2.25	0.49
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.48	0.49
2:J:416:GLN:HE22	2:J:425:LYS:H	1.61	0.49
2:J:609:THR:HG22	2:J:633:GLY:HA3	1.93	0.49
1:E:962:ASN:ND2	2:K:1006:GLN:NE2	2.47	0.49
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.48	0.49
2:K:1083:ILE:HA	2:K:1086:ILE:HG13	1.93	0.49
2:K:1265:TYR:HE1	2:K:1267:PRO:HG3	1.73	0.49
2:K:1286:LYS:HD3	2:K:1362:PHE:HA	1.94	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.12	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.78	0.49
2:L:1352:VAL:HG11	2:L:1395:LEU:HD12	1.94	0.49
2:L:1891:ILE:HD12	2:L:1895:PHE:CE2	2.47	0.49
2:L:187:ARG:NH2	2:L:230:TRP:O	2.45	0.49
2:L:391:VAL:HG12	2:L:398:LEU:HD21	1.95	0.49
2:L:663:ILE:N	2:L:663:ILE:HD12	2.23	0.49
2:L:717:LYS:HD2	4:L:2101:FMN:O2	2.13	0.49
2:L:719:GLY:O	2:L:755:GLU:HG3	2.12	0.49
1:A:968:PRO:HG3	1:A:1376:TYR:CE1	2.47	0.49
1:A:1703:VAL:HG22	1:A:1713:PHE:N	2.27	0.49
1:C:1307:PHE:HB3	1:C:1357:CYS:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.49
1:D:1386:THR:HG22	1:D:1629:GLN:HE21	1.76	0.49
1:D:890:ASN:OD1	2:I:1755:LYS:HE2	2.13	0.49
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.48	0.49
1:E:334:ALA:O	1:E:338:GLN:HG3	2.12	0.49
1:E:716:GLN:NE2	1:E:747:ALA:HB3	2.28	0.49
2:G:1019:LEU:HA	2:G:1022:ARG:HD2	1.93	0.49
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.43	0.49
2:G:1821:MET:HA	2:G:1826:LEU:HD12	1.95	0.49
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.42	0.49
2:H:1517:LEU:HD12	2:H:1521:GLU:HB2	1.93	0.49
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.78	0.49
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.93	0.49
2:H:775:VAL:HG12	2:H:777:VAL:HG23	1.94	0.49
2:H:77:ALA:O	2:H:139:ALA:HB1	2.12	0.49
2:H:930:THR:CG2	2:H:933:GLU:H	2.25	0.49
2:I:196:PHE:H	2:I:196:PHE:HD2	1.60	0.49
2:I:608:MET:HA	4:I:2101:FMN:N5	2.27	0.49
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.75	0.49
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.95	0.49
2:K:1086:ILE:O	2:K:1090:ILE:HG13	2.13	0.49
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.77	0.49
2:K:1891:ILE:HD12	2:K:1895:PHE:CE2	2.48	0.49
2:K:208:LEU:HD12	2:K:227:ILE:CD1	2.40	0.49
2:K:528:THR:HA	2:K:531:ASN:ND2	2.27	0.49
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.93	0.49
2:K:618:VAL:CG1	2:K:648:ILE:HD11	2.43	0.49
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.95	0.49
2:L:1456:LEU:HD11	2:L:1543:TYR:CE2	2.46	0.49
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	1.94	0.49
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.47	0.49
2:L:618:VAL:CG1	2:L:648:ILE:HD11	2.42	0.49
2:L:76:VAL:O	2:L:80:ILE:HG13	2.12	0.49
1:A:1363:MET:HE3	1:A:1368:ALA:CB	2.42	0.49
1:B:1106:LEU:HD12	1:D:1104:GLN:HE22	1.78	0.49
1:B:358:PHE:CD2	1:B:358:PHE:C	2.86	0.49
1:B:493:PRO:HD2	1:B:517:ARG:O	2.13	0.49
1:B:983:GLN:O	1:B:987:MET:HG3	2.13	0.49
1:C:1082:GLU:HB2	1:C:1085:LEU:HD12	1.95	0.49
1:C:329:THR:O	1:C:332:GLN:HB2	2.13	0.49
1:C:330:LYS:HG3	1:C:333:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:ASN:HB3	1:C:585:MET:SD	2.52	0.49
1:C:628:TYR:HD1	1:C:629:SER:N	2.11	0.49
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.46	0.49
1:D:1223:GLY:CA	1:D:1276:PRO:HD2	2.42	0.49
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.94	0.49
1:D:914:LEU:O	1:D:917:LYS:HB3	2.13	0.49
1:F:573:VAL:O	1:F:577:LEU:HG	2.13	0.49
2:G:1176:PHE:CE1	2:G:1192:LEU:HD13	2.48	0.49
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.93	0.49
2:G:270:ARG:HG3	2:G:274:GLU:CD	2.33	0.49
2:G:207:LEU:HD22	2:G:309:LYS:HG3	1.95	0.49
2:G:460:ILE:CD1	2:G:487:ILE:HD11	2.43	0.49
2:G:962:PHE:O	2:G:966:VAL:HG23	2.12	0.49
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.95	0.49
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.27	0.49
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.47	0.49
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	1.95	0.49
2:H:357:THR:HG22	2:H:359:SER:H	1.76	0.49
2:H:614:PRO:O	2:H:618:VAL:HG12	2.13	0.49
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.48	0.49
2:H:870:THR:HG21	2:H:1064:THR:O	2.13	0.49
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.47	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49
1:C:962:ASN:HB3	2:I:969:ARG:HD2	1.94	0.49
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.42	0.49
2:J:596:ARG:HD3	2:J:1119:ARG:HG3	1.94	0.49
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.12	0.49
1:D:20:TYR:CE2	2:J:2062:THR:HG23	2.46	0.49
2:J:361:VAL:O	2:J:365:ILE:HG13	2.12	0.49
2:J:622:MET:O	2:J:656:ARG:NH1	2.46	0.49
2:J:888:ARG:O	2:J:891:ARG:HB2	2.12	0.49
2:J:928:ASP:O	2:J:1007:LEU:HD23	2.13	0.49
2:K:1311:GLY:HA3	2:K:1397:THR:HB	1.95	0.49
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.75	0.49
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.94	0.49
2:K:1725:HIS:CD2	2:K:1854:GLU:CB	2.96	0.49
2:K:1947:LYS:HG2	2:K:1993:PHE:CD1	2.48	0.49
2:K:751:HIS:HB2	3:K:2102:NAP:N7N	2.28	0.49
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.49
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.94	0.49
2:L:1421:ARG:HD2	2:L:1426:VAL:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1946:LEU:HB3	2:L:1951:ILE:HD11	1.94	0.49
1:A:1580:VAL:O	1:A:1617:ILE:HD11	2.12	0.49
1:B:782:LYS:NZ	1:B:786:LYS:HD2	2.27	0.49
1:C:985:ARG:HB3	1:C:1422:ARG:HH22	1.78	0.49
1:C:716:GLN:NE2	1:C:747:ALA:HB3	2.28	0.49
1:C:853:MET:HG2	1:C:856:ASN:ND2	2.24	0.49
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.36	0.49
1:D:1213:VAL:HG22	1:D:1300:ARG:CZ	2.42	0.49
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.48	0.49
1:D:94:PRO:HD3	2:J:1559:ASN:ND2	2.28	0.49
1:E:1338:GLY:C	1:E:1340:MET:H	2.15	0.49
1:E:450:TYR:C	1:E:450:TYR:CD2	2.85	0.49
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.48	0.49
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.12	0.49
1:C:1154:LEU:HD21	1:F:1118:GLU:OE2	2.12	0.49
1:F:1337:PRO:HA	1:F:1340:MET:CG	2.43	0.49
1:F:330:LYS:HG3	1:F:333:ARG:HH12	1.77	0.49
1:F:846:TRP:HZ2	1:F:856:ASN:O	1.96	0.49
2:G:1157:VAL:HG22	2:G:1198:PRO:HD2	1.95	0.49
2:G:1384:PRO:HB3	2:G:1829:ARG:HH12	1.78	0.49
1:A:22:PHE:HE1	2:G:1867:MET:HG3	1.77	0.49
2:G:1890:ARG:NH2	2:G:1996:ILE:HD11	2.17	0.49
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.94	0.49
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.94	0.49
2:H:1180:VAL:HA	2:H:1188:GLN:O	2.13	0.49
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.12	0.49
2:H:1768:THR:O	2:H:1776:LYS:HB2	2.13	0.49
2:H:1946:LEU:HB3	2:H:1951:ILE:HD11	1.94	0.49
2:I:1299:VAL:HG22	2:I:1301:PHE:CD1	2.48	0.49
2:I:1653:LEU:CD2	2:I:1667:VAL:HG13	2.43	0.49
2:I:460:ILE:O	2:I:486:ILE:HB	2.13	0.49
2:J:1342:PHE:HE2	2:J:1391:VAL:HB	1.78	0.49
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	1.94	0.49
2:J:420:PRO:HG3	2:J:847:TYR:CD1	2.48	0.49
2:J:520:GLY:C	2:J:522:SER:H	2.16	0.49
2:K:1404:VAL:HA	2:K:1412:MET:O	2.11	0.49
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.13	0.49
2:K:197:VAL:HA	2:K:262:MET:HE1	1.95	0.49
2:K:358:ARG:HB2	2:K:389:PHE:CE2	2.47	0.49
2:K:907:ASN:OD1	2:K:913:VAL:HG12	2.13	0.49
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	1.94	0.49
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.95	0.49
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.13	0.49
1:F:9:LEU:HB2	2:L:2050:ILE:HD11	1.94	0.49
2:L:22:ARG:HD2	2:L:42:HIS:HB3	1.95	0.49
2:L:472:THR:HG23	2:L:499:VAL:HA	1.95	0.49
2:L:582:LYS:HA	2:L:587:GLN:O	2.12	0.49
2:L:614:PRO:O	2:L:618:VAL:HG12	2.13	0.49
1:A:503:ARG:HA	1:A:933:ILE:CD1	2.42	0.49
1:B:808:PHE:HA	1:B:912:LYS:HD3	1.95	0.49
1:B:929:ARG:O	1:B:933:ILE:HG13	2.12	0.49
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.47	0.49
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.78	0.49
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.13	0.49
1:D:1337:PRO:HA	1:D:1340:MET:CG	2.42	0.49
1:D:746:PHE:CD1	1:D:800:PRO:HG3	2.48	0.49
1:E:956:ILE:HG23	2:K:976:GLN:O	2.13	0.49
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.74	0.49
1:F:1208:GLU:OE2	1:F:1661:ARG:NH2	2.45	0.49
1:F:519:PHE:O	1:F:523:VAL:HG23	2.12	0.49
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.42	0.49
2:G:1301:PHE:O	2:G:1364:ARG:N	2.42	0.49
2:G:1380:TYR:HD2	2:G:1429:VAL:HG22	1.74	0.49
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.42	0.49
2:G:796:TRP:HH2	2:G:805:MET:HE1	1.77	0.49
2:G:825:SER:CB	2:G:1053:ILE:HG13	2.43	0.49
2:G:929:MET:HE1	2:G:934:VAL:HA	1.95	0.49
2:G:980:LEU:HD22	2:G:986:LEU:HD21	1.94	0.49
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	1.94	0.49
2:H:1420:LYS:HG2	2:H:1425:PRO:CA	2.41	0.49
2:H:1887:ASN:OD1	2:H:1889:SER:HB2	2.13	0.49
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.43	0.49
2:H:622:MET:O	2:H:656:ARG:NH1	2.46	0.49
2:I:611:THR:HG22	2:I:1051:GLU:OE2	2.13	0.49
2:I:1359:LYS:O	2:I:1362:PHE:HD1	1.95	0.49
2:I:1311:GLY:HA3	2:I:1397:THR:HB	1.94	0.49
2:I:1738:VAL:HA	2:I:1800:LEU:HD13	1.94	0.49
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.43	0.49
2:I:1946:LEU:HB3	2:I:1951:ILE:HD11	1.94	0.49
2:I:2053:GLU:HA	2:I:2056:GLU:OE1	2.13	0.49
2:I:571:ASP:OD1	2:I:573:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:956:ILE:HA	2:I:977:PRO:HA	1.94	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.64	0.49
2:J:1500:ASN:HB2	2:J:1503:VAL:H	1.78	0.49
2:J:1946:LEU:HB3	2:J:1951:ILE:HD11	1.94	0.49
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.43	0.49
2:J:699:ILE:H	2:J:699:ILE:CD1	2.25	0.49
2:J:915:PHE:CD2	2:J:915:PHE:O	2.65	0.49
2:K:1207:THR:O	2:K:1215:THR:HG23	2.13	0.49
2:K:1603:PRO:HD2	2:K:1606:ILE:HD11	1.95	0.49
1:E:9:LEU:HB2	2:K:2050:ILE:HD11	1.95	0.49
2:K:291:VAL:O	2:K:295:ILE:HB	2.11	0.49
2:K:735:PRO:HA	2:K:773:ASN:OD1	2.13	0.49
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.43	0.49
2:L:1725:HIS:CD2	2:L:1854:GLU:CB	2.96	0.49
2:L:622:MET:O	2:L:656:ARG:NH1	2.46	0.49
2:L:917:ARG:HB2	2:L:937:ARG:HD3	1.95	0.49
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.77	0.49
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.75	0.49
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.06	0.49
1:A:445:LEU:O	1:A:448:MET:HB2	2.13	0.49
1:B:1293:THR:HG23	1:B:1298:LYS:HB2	1.93	0.49
1:B:1229:THR:HB	1:B:1311:GLN:HG3	1.93	0.49
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.41	0.49
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.48	0.49
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.43	0.49
1:C:1447:VAL:CG2	1:C:1467:LEU:HD21	2.36	0.49
1:C:441:ASN:HB2	1:C:444:LEU:H	1.78	0.49
1:D:1082:GLU:HB2	1:D:1085:LEU:HD12	1.95	0.49
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.49
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.12	0.49
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.42	0.49
1:E:868:VAL:HG11	1:E:908:ILE:CD1	2.38	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.48	0.49
2:G:1946:LEU:HB3	2:G:1951:ILE:HD11	1.95	0.49
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.33	0.49
2:G:208:LEU:HD12	2:G:227:ILE:CD1	2.41	0.49
2:G:735:PRO:HA	2:G:773:ASN:OD1	2.12	0.49
2:H:315:LEU:HA	2:H:318:ILE:HD12	1.94	0.49
2:H:43:PHE:CE2	2:I:22:ARG:CG	2.96	0.49
2:H:502:GLU:O	2:H:506:VAL:HG23	2.13	0.49
2:I:668:ARG:HH21	2:I:1023:ARG:HH12	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1380:TYR:HD2	2:I:1429:VAL:HG22	1.78	0.49
2:I:1328:VAL:HA	2:I:1611:TYR:HE1	1.78	0.49
2:I:1643:VAL:HG13	2:I:1649:ILE:HD11	1.94	0.49
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.96	0.49
2:I:38:PRO:HD2	2:I:104:LEU:CD1	2.43	0.49
2:I:76:VAL:HG11	2:I:109:PHE:CD1	2.48	0.49
2:I:825:SER:O	2:I:828:ALA:HB3	2.13	0.49
2:I:837:GLY:HA3	2:I:1074:LYS:HG2	1.94	0.49
2:I:888:ARG:O	2:I:891:ARG:HB2	2.13	0.49
2:I:92:GLU:HA	2:I:95:HIS:CE1	2.48	0.49
2:J:1157:VAL:HG22	2:J:1198:PRO:HD2	1.95	0.49
2:J:1421:ARG:HD2	2:J:1426:VAL:CG2	2.43	0.49
2:J:1380:TYR:HD2	2:J:1429:VAL:HG22	1.77	0.49
2:J:1891:ILE:HD12	2:J:1895:PHE:CE2	2.47	0.49
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.13	0.49
2:J:291:VAL:O	2:J:295:ILE:HB	2.13	0.49
2:J:207:LEU:HD22	2:J:309:LYS:HG3	1.95	0.49
2:J:611:THR:HA	2:J:1051:GLU:OE2	2.13	0.49
2:J:676:LEU:C	2:J:676:LEU:HD13	2.34	0.49
2:K:300:THR:H	2:K:303:GLU:HB3	1.77	0.49
2:K:595:SER:HB2	2:K:600:VAL:O	2.13	0.49
2:K:915:PHE:CD2	2:K:915:PHE:O	2.66	0.49
2:L:1019:LEU:HA	2:L:1022:ARG:HD2	1.95	0.49
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.77	0.49
2:L:1497:ARG:O	2:L:1505:SER:HB3	2.13	0.49
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.12	0.49
2:L:798:THR:HA	2:L:802:TYR:O	2.12	0.49
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.13	0.49
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.95	0.49
1:A:1307:PHE:CB	1:A:1357:CYS:HB3	2.43	0.48
1:A:756:ILE:HA	1:A:759:ILE:CD1	2.41	0.48
1:B:421:ARG:NH2	1:B:1613:LYS:HB3	2.28	0.48
1:C:1208:GLU:OE2	1:C:1661:ARG:NH2	2.46	0.48
1:D:1495:ARG:HG2	1:D:1495:ARG:HH11	1.77	0.48
1:E:1075:HIS:HB3	1:E:1166:THR:HB	1.93	0.48
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.43	0.48
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.27	0.48
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.94	0.48
1:F:1075:HIS:HB3	1:F:1166:THR:HB	1.94	0.48
1:F:849:GLY:HA3	1:F:873:GLN:HG3	1.94	0.48
1:F:911:LEU:O	1:F:911:LEU:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.96	0.48
2:G:1204:VAL:HA	2:G:1218:SER:O	2.13	0.48
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.28	0.48
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.94	0.48
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.13	0.48
2:H:520:GLY:C	2:H:522:SER:H	2.16	0.48
2:H:931:TYR:O	2:H:935:VAL:HG12	2.13	0.48
2:I:1304:PRO:HA	2:I:1365:LYS:NZ	2.28	0.48
2:I:1344:ALA:N	2:I:1389:LEU:O	2.43	0.48
2:I:978:SER:O	2:I:981:GLN:HG2	2.12	0.48
2:J:1722:ALA:HB1	2:J:1812:LEU:HD21	1.95	0.48
2:J:300:THR:H	2:J:303:GLU:HB3	1.78	0.48
2:J:317:TRP:O	2:J:321:ARG:HG2	2.12	0.48
2:J:472:THR:HB	2:J:493:MET:HB3	1.95	0.48
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.26	0.48
2:J:978:SER:O	2:J:981:GLN:HG2	2.13	0.48
2:K:1932:ASP:O	2:K:1936:LEU:HD23	2.13	0.48
2:K:35:PHE:CD2	2:K:37:VAL:HG22	2.48	0.48
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.43	0.48
2:K:785:SER:O	2:K:789:TYR:HB2	2.13	0.48
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.46	0.48
2:L:1769:VAL:HG22	2:L:1775:ILE:CA	2.35	0.48
2:L:1894:THR:HB	2:L:1954:GLN:OE1	2.12	0.48
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.43	0.48
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.43	0.48
1:A:1514:ILE:CD1	1:A:1545:LEU:HB3	2.44	0.48
1:A:1579:GLN:O	1:A:1583:THR:HG23	2.14	0.48
1:A:358:PHE:CD2	1:A:358:PHE:C	2.87	0.48
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.49	0.48
1:A:801:LEU:HD13	1:A:822:GLU:HG2	1.94	0.48
1:A:876:MET:O	1:A:876:MET:HE3	2.13	0.48
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.47	0.48
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.42	0.48
1:B:1414:PRO:HG2	1:D:1473:HIS:NE2	2.28	0.48
1:B:506:ILE:HD11	1:B:926:SER:HB3	1.95	0.48
1:C:801:LEU:HD13	1:C:822:GLU:HG2	1.95	0.48
1:C:533:SER:HA	1:C:907:PHE:CZ	2.48	0.48
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.95	0.48
1:D:759:ILE:HG12	1:D:813:LEU:HD23	1.96	0.48
1:D:848:ARG:HG2	1:D:871:PHE:O	2.12	0.48
1:E:1132:ILE:HD12	1:E:1137:GLN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.76	0.48
1:B:579:MET:HE1	1:E:907:PHE:CZ	2.47	0.48
1:F:547:SER:HA	1:F:550:LYS:HB2	1.95	0.48
2:G:1026:LYS:HE2	2:G:1045:ASP:OD2	2.13	0.48
2:G:1180:VAL:HA	2:G:1188:GLN:O	2.12	0.48
2:G:1344:ALA:N	2:G:1389:LEU:O	2.41	0.48
2:G:1932:ASP:O	2:G:1936:LEU:HD23	2.13	0.48
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.43	0.48
2:G:834:ASP:O	2:G:836:PRO:HD3	2.13	0.48
2:H:928:ASP:O	2:H:1007:LEU:HD23	2.13	0.48
2:H:1753:ARG:HG3	2:H:1756:ILE:HD11	1.95	0.48
2:I:1286:LYS:NZ	2:I:1367:ASP:HA	2.29	0.48
2:I:1299:VAL:HG13	2:I:1301:PHE:CE1	2.47	0.48
2:I:1195:LEU:HD23	2:I:1595:VAL:HG12	1.95	0.48
2:I:1731:GLY:O	2:I:1747:VAL:HG12	2.13	0.48
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.13	0.48
2:I:465:LEU:HB2	2:I:479:ARG:HG3	1.95	0.48
2:J:490:LEU:HA	2:J:493:MET:SD	2.53	0.48
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.48
2:J:776:LEU:HG	2:J:807:PHE:CE2	2.47	0.48
2:J:827:GLN:O	2:J:830:GLN:HB3	2.12	0.48
2:J:845:ASN:HB3	2:J:851:THR:HG1	1.78	0.48
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.95	0.48
2:K:460:ILE:O	2:K:486:ILE:N	2.46	0.48
2:K:489:GLU:O	2:K:492:ARG:HG2	2.13	0.48
2:K:779:GLY:HA3	2:K:811:MET:CE	2.42	0.48
2:K:797:SER:O	2:K:802:TYR:HB2	2.13	0.48
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.44	0.48
2:L:1738:VAL:HA	2:L:1800:LEU:HD13	1.95	0.48
2:L:1721:ARG:NH1	2:L:1854:GLU:OE2	2.46	0.48
2:L:749:GLY:HA3	4:L:2101:FMN:HM81	1.95	0.48
2:L:357:THR:HG22	2:L:359:SER:H	1.76	0.48
2:L:38:PRO:HD2	2:L:104:LEU:CD1	2.44	0.48
2:L:76:VAL:HG11	2:L:109:PHE:CD1	2.47	0.48
2:L:818:THR:HG22	2:L:829:LYS:CB	2.37	0.48
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	1.94	0.48
1:D:1031:MET:HE2	1:D:1031:MET:HB3	1.72	0.48
1:D:1363:MET:HE3	1:D:1368:ALA:CB	2.44	0.48
1:D:408:GLN:HE22	1:D:1610:ARG:H	1.61	0.48
1:E:1599:MET:HA	1:E:1602:PHE:CD2	2.48	0.48
1:E:746:PHE:CD2	3:E:1901:NAP:H4D	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:759:ILE:N	1:E:759:ILE:HD12	2.29	0.48
1:E:673:LEU:HD21	1:E:884:MET:CE	2.43	0.48
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.12	0.48
2:G:1128:PRO:HG2	2:G:1135:ALA:CB	2.44	0.48
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.95	0.48
2:G:903:ILE:HD11	2:G:914:TRP:CZ2	2.47	0.48
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.65	0.48
2:H:1207:THR:O	2:H:1215:THR:HG23	2.13	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.42	0.48
2:I:1074:LYS:HE3	2:I:1075:TYR:CE1	2.47	0.48
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.49	0.48
2:I:1279:GLU:CD	2:I:1279:GLU:H	2.16	0.48
2:I:2008:THR:HG22	2:I:2011:ARG:HE	1.78	0.48
2:J:1352:VAL:HG11	2:J:1395:LEU:HD12	1.95	0.48
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.48	0.48
2:J:172:ILE:HG22	2:J:514:VAL:O	2.12	0.48
2:J:718:PRO:HG3	2:J:727:VAL:CG2	2.43	0.48
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.48	0.48
2:J:917:ARG:HH11	2:J:917:ARG:HG2	1.68	0.48
2:K:1236:LEU:HD21	2:K:1239:ASP:O	2.12	0.48
2:K:1279:GLU:H	2:K:1279:GLU:CD	2.16	0.48
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.13	0.48
2:K:192:THR:O	2:K:194:PRO:HD3	2.12	0.48
2:K:472:THR:HG23	2:K:499:VAL:HA	1.94	0.48
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.71	0.48
2:K:950:TRP:CE2	2:K:956:LYS:HG3	2.47	0.48
2:L:1026:LYS:HE2	2:L:1045:ASP:OD2	2.14	0.48
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.43	0.48
2:L:1204:VAL:HA	2:L:1218:SER:O	2.13	0.48
2:L:1403:ALA:HB2	2:L:1447:GLN:HG3	1.94	0.48
2:L:1587:TYR:O	2:L:1588:ASN:C	2.51	0.48
2:L:202:THR:O	2:L:206:GLU:HG3	2.14	0.48
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.42	0.48
2:L:750:GLY:O	2:L:865:ILE:HA	2.13	0.48
1:A:1011:ARG:HH11	1:A:1012:TRP:HA	1.78	0.48
1:A:1131:GLU:HG2	1:A:1138:TYR:CE2	2.47	0.48
1:A:577:LEU:HB2	1:A:579:MET:HG2	1.96	0.48
1:A:526:MET:HE1	1:A:614:PHE:HB3	1.94	0.48
1:B:427:ARG:HG3	1:B:492:ILE:HG12	1.95	0.48
1:C:1160:VAL:C	1:C:1352:MET:HE1	2.33	0.48
1:C:782:LYS:NZ	1:C:786:LYS:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.48
1:D:914:LEU:CD1	1:D:918:LEU:HD12	2.44	0.48
1:E:1017:TYR:N	1:E:1017:TYR:CD1	2.81	0.48
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.76	0.48
1:E:498:THR:HG21	1:E:858:LEU:O	2.13	0.48
1:E:529:GLY:HA2	1:E:614:PHE:CD2	2.49	0.48
1:F:1514:ILE:HD13	1:F:1545:LEU:HB3	1.94	0.48
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.76	0.48
2:G:1977:ARG:CD	2:G:1978:LYS:HG3	2.44	0.48
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.78	0.48
2:G:708:THR:HB	2:G:709:LEU:HD23	1.96	0.48
2:G:747:ARG:NH2	2:G:757:PHE:CE1	2.82	0.48
2:G:824:THR:HG22	2:G:828:ALA:HB3	1.95	0.48
2:H:1872:GLU:HA	2:H:1872:GLU:OE1	2.14	0.48
2:H:76:VAL:O	2:H:80:ILE:HG13	2.13	0.48
2:H:756:ASP:CA	2:H:843:TRP:HH2	2.25	0.48
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.48	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.95	0.48
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.77	0.48
2:I:1894:THR:HB	2:I:1954:GLN:OE1	2.14	0.48
2:I:751:HIS:HB2	3:I:2102:NAP:N7N	2.28	0.48
2:I:472:THR:HB	2:I:493:MET:HB3	1.95	0.48
2:I:663:ILE:CD1	2:I:663:ILE:H	2.10	0.48
2:I:765:TYR:CD2	2:I:805:MET:HG2	2.49	0.48
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.79	0.48
2:J:1336:VAL:HG12	2:J:1336:VAL:O	2.13	0.48
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.48
2:K:318:ILE:HA	2:K:451:ILE:HD13	1.95	0.48
2:K:315:LEU:HA	2:K:318:ILE:HD12	1.94	0.48
2:K:326:TYR:HA	2:L:1338:ARG:HH21	1.78	0.48
2:K:353:ILE:HG22	2:K:353:ILE:O	2.12	0.48
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.14	0.48
2:K:48:LEU:HD11	2:K:101:VAL:HG11	1.95	0.48
2:L:1753:ARG:HG3	2:L:1756:ILE:HD11	1.95	0.48
2:L:379:GLY:O	2:L:391:VAL:HG13	2.14	0.48
2:L:506:VAL:CG1	2:L:506:VAL:O	2.60	0.48
2:L:595:SER:HB3	2:L:602:PRO:CD	2.43	0.48
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.48
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.49	0.48
1:A:759:ILE:HG12	1:A:813:LEU:HD23	1.96	0.48
1:B:1183:VAL:HG13	1:B:1252:GLU:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:506:ILE:HD13	1:B:922:ILE:HG22	1.95	0.48
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.28	0.48
1:C:575:ARG:HG2	1:C:579:MET:SD	2.53	0.48
1:C:905:LEU:HD22	1:C:911:LEU:CD2	2.43	0.48
1:D:628:TYR:HD1	1:D:629:SER:N	2.12	0.48
1:E:1495:ARG:HG2	1:E:1495:ARG:HH11	1.77	0.48
1:E:843:VAL:HG22	1:E:843:VAL:O	2.13	0.48
1:F:1052:ASP:O	1:F:1055:THR:O	2.31	0.48
1:F:1223:GLY:CA	1:F:1276:PRO:HD2	2.41	0.48
1:F:1495:ARG:HG2	1:F:1495:ARG:HH11	1.78	0.48
1:F:1599:MET:HA	1:F:1602:PHE:CD2	2.48	0.48
1:F:20:TYR:CE1	2:L:2018:ARG:NH2	2.81	0.48
2:G:825:SER:HB2	2:G:1053:ILE:HG13	1.95	0.48
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.49	0.48
2:G:1194:ARG:HH21	2:G:1601:ASN:CG	2.17	0.48
2:G:1404:VAL:HA	2:G:1412:MET:O	2.13	0.48
2:G:1436:ARG:NH2	2:G:1602:LEU:HD11	2.28	0.48
2:G:192:THR:O	2:G:194:PRO:HD3	2.13	0.48
2:G:1969:LEU:HA	2:G:1972:ILE:HD12	1.94	0.48
2:G:2039:TYR:O	2:G:2041:PRO:HD3	2.13	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.78	0.48
2:G:917:ARG:HB2	2:G:937:ARG:HD3	1.94	0.48
2:H:1751:GLY:O	2:H:1752:PRO:C	2.52	0.48
2:H:416:GLN:HE22	2:H:425:LYS:H	1.60	0.48
2:H:663:ILE:N	2:H:663:ILE:HD12	2.27	0.48
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.11	0.48
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.14	0.48
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.29	0.48
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.49	0.48
2:I:1350:ILE:HG22	2:I:1429:VAL:HG11	1.95	0.48
2:I:1443:GLU:HA	2:I:1443:GLU:OE1	2.14	0.48
2:I:1517:LEU:HD12	2:I:1521:GLU:HB2	1.94	0.48
2:I:1878:ARG:HE	2:I:1986:PRO:HG3	1.79	0.48
2:I:1905:GLU:O	2:I:1908:ALA:HB3	2.12	0.48
2:I:2010:LEU:O	2:I:2014:VAL:HG23	2.13	0.48
2:I:202:THR:HA	2:I:228:LEU:HD11	1.95	0.48
2:I:762:LEU:HD23	2:I:805:MET:HE1	1.93	0.48
2:I:868:LEU:O	2:I:870:THR:HG23	2.14	0.48
2:J:126:VAL:HG12	2:J:127:ALA:H	1.76	0.48
2:J:1293:TRP:NE1	2:J:1354:TRP:HZ2	2.11	0.48
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:532:LYS:HD3	2:J:537:VAL:HG21	1.95	0.48
2:J:609:THR:CG2	2:J:633:GLY:HA3	2.44	0.48
2:J:903:ILE:HD11	2:J:914:TRP:CZ2	2.48	0.48
2:K:1266:HIS:CD2	2:K:1275:ARG:CZ	2.97	0.48
2:K:1610:MET:CA	2:K:1610:MET:HE2	2.33	0.48
2:K:685:VAL:CG1	2:K:687:ILE:HG13	2.38	0.48
2:K:856:THR:HG23	2:K:866:HIS:NE2	2.28	0.48
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	1.96	0.48
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.94	0.48
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.49	0.48
2:L:353:ILE:O	2:L:353:ILE:HG22	2.12	0.48
2:L:511:THR:C	2:L:512:HIS:CD2	2.87	0.48
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.48	0.48
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.49	0.48
1:A:382:ILE:HD12	1:A:761:SER:HB3	1.95	0.48
1:A:401:SER:O	1:A:405:TRP:CD1	2.67	0.48
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.96	0.48
1:B:585:MET:O	1:B:586:GLN:C	2.51	0.48
1:C:1075:HIS:HB3	1:C:1166:THR:HB	1.93	0.48
1:C:500:ILE:HD11	1:C:922:ILE:HG23	1.95	0.48
1:D:1463:GLU:O	1:D:1467:LEU:HB2	2.14	0.48
1:D:846:TRP:HZ2	1:D:856:ASN:O	1.96	0.48
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.46	0.48
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.96	0.48
1:E:662:ALA:HA	1:E:694:TYR:OH	2.13	0.48
1:E:927:ALA:HB1	2:K:1462:GLN:NE2	2.29	0.48
1:F:1017:TYR:N	1:F:1017:TYR:CD1	2.80	0.48
1:F:1129:ILE:HA	1:F:1139:THR:O	2.13	0.48
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.48	0.48
2:G:372:LEU:CD1	2:G:397:SER:HB2	2.42	0.48
2:G:502:GLU:O	2:G:506:VAL:HG23	2.13	0.48
2:G:609:THR:HG23	4:G:2101:FMN:O4	2.13	0.48
2:G:699:ILE:HD12	2:G:699:ILE:N	2.28	0.48
2:H:1180:VAL:CG1	2:H:1188:GLN:H	2.27	0.48
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.14	0.48
2:H:1405:ILE:HA	2:H:1445:THR:OG1	2.12	0.48
2:I:48:LEU:HD13	2:I:101:VAL:HG11	1.96	0.48
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.42	0.48
2:I:250:PHE:O	2:I:315:LEU:HD23	2.13	0.48
2:I:685:VAL:HA	2:I:686:PRO:HD3	1.60	0.48
2:I:907:ASN:HA	2:I:913:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.77	0.48
2:J:459:LYS:O	2:J:461:PRO:HD3	2.14	0.48
2:J:465:LEU:HB2	2:J:479:ARG:CG	2.43	0.48
2:J:613:VAL:HG13	2:J:614:PRO:HD3	1.96	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:1350:ILE:HG22	2:K:1429:VAL:HG11	1.96	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.48
2:L:1269:ALA:HB1	2:L:1271:TYR:CE1	2.49	0.48
2:L:1551:ILE:CG2	2:L:1552:GLU:N	2.76	0.48
2:L:1844:LEU:HD22	2:L:1850:VAL:HG21	1.95	0.48
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.40	0.48
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.48	0.48
1:B:620:LYS:HE3	1:B:626:TRP:CZ2	2.49	0.48
1:D:1293:THR:HG23	1:D:1298:LYS:HB2	1.95	0.48
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.44	0.48
1:D:1705:GLN:HA	1:D:1711:LEU:HD23	1.95	0.48
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.78	0.48
1:E:1640:LYS:HD2	1:E:1641:TYR:CE1	2.49	0.48
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	2.14	0.48
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.14	0.48
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.13	0.48
2:G:22:ARG:HD2	2:G:42:HIS:HB3	1.96	0.48
2:G:529:ASN:HD22	2:G:552:VAL:HG23	1.79	0.48
2:H:43:PHE:CZ	2:I:42:HIS:CD2	3.01	0.48
2:H:582:LYS:HA	2:H:587:GLN:O	2.13	0.48
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.13	0.48
1:C:23:ALA:HA	2:I:2007:SER:O	2.14	0.48
2:I:2044:THR:HG22	2:I:2046:LYS:H	1.78	0.48
2:I:187:ARG:NH2	2:I:230:TRP:O	2.46	0.48
2:I:317:TRP:O	2:I:321:ARG:HG2	2.13	0.48
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.28	0.48
2:I:875:PHE:O	2:I:878:GLU:HB2	2.14	0.48
1:C:959:PRO:CG	2:I:974:GLU:HG3	2.42	0.48
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.29	0.48
2:J:1946:LEU:HD22	2:J:1951:ILE:HG12	1.95	0.48
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.73	0.48
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.28	0.48
2:K:1299:VAL:HG13	2:K:1301:PHE:CE1	2.47	0.48
2:K:317:TRP:CD1	2:K:454:ASP:CG	2.87	0.48
2:K:613:VAL:N	2:K:614:PRO:CD	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.94	0.48
2:K:756:ASP:CA	2:K:843:TRP:HH2	2.27	0.48
2:K:937:ARG:NE	2:K:941:LEU:CD1	2.77	0.48
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.29	0.48
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.35	0.48
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.49	0.48
1:A:662:ALA:HA	1:A:694:TYR:CZ	2.49	0.48
1:B:1132:ILE:HD12	1:B:1137:GLN:HB2	1.94	0.48
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.96	0.48
1:C:585:MET:O	1:C:586:GLN:C	2.52	0.48
1:D:1050:TRP:CE3	1:D:1050:TRP:HA	2.48	0.48
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.96	0.48
1:D:491:SER:O	1:D:493:PRO:HD3	2.13	0.48
1:D:500:ILE:HD11	1:D:922:ILE:HG23	1.94	0.48
1:E:1363:MET:HE3	1:E:1368:ALA:CB	2.44	0.48
1:E:1702:ARG:NH1	1:E:1702:ARG:HG2	2.17	0.48
2:G:1497:ARG:O	2:G:1505:SER:HB3	2.14	0.48
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	1.94	0.48
2:G:609:THR:CB	2:G:610:PRO:HD3	2.44	0.48
2:H:1299:VAL:HG13	2:H:1301:PHE:CE1	2.49	0.48
2:H:1335:PHE:CZ	2:H:1629:ILE:HD13	2.49	0.48
2:H:391:VAL:HG12	2:H:398:LEU:HD21	1.95	0.48
2:I:1200:ARG:CD	2:I:1200:ARG:H	2.14	0.48
2:I:1610:MET:HA	2:I:1610:MET:CE	2.34	0.48
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.48
2:I:2013:GLY:C	2:I:2016:PRO:HD2	2.33	0.48
2:I:270:ARG:HG3	2:I:274:GLU:CD	2.33	0.48
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.75	0.48
2:J:1180:VAL:HA	2:J:1188:GLN:O	2.14	0.48
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.94	0.48
2:J:1266:HIS:CD2	2:J:1275:ARG:CZ	2.97	0.48
2:J:1366:ILE:HG22	2:J:1366:ILE:O	2.13	0.48
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.48
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.44	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.48	0.48
2:J:271:GLU:H	2:J:274:GLU:HG3	1.78	0.48
2:J:618:VAL:CG1	2:J:648:ILE:HD11	2.43	0.48
2:J:663:ILE:N	2:J:663:ILE:HD12	2.25	0.48
2:J:716:PHE:CD1	2:J:727:VAL:HG13	2.48	0.48
2:K:1331:THR:HG22	2:K:1331:THR:O	2.13	0.48
2:K:1366:ILE:O	2:K:1366:ILE:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:202:THR:HA	2:K:228:LEU:HD11	1.96	0.48
2:K:2039:TYR:O	2:K:2041:PRO:HD3	2.13	0.48
2:K:372:LEU:CD1	2:K:397:SER:HB2	2.44	0.48
2:K:594:MET:HB3	2:K:808:ASP:O	2.13	0.48
2:K:820:LYS:HG3	2:K:821:GLU:HG2	1.95	0.48
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.95	0.48
2:L:285:HIS:CD2	2:L:501:TRP:CE3	3.02	0.48
1:A:1102:ILE:HD11	1:A:1148:LEU:HG	1.95	0.48
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.37	0.48
1:A:492:ILE:H	1:A:492:ILE:HG13	1.48	0.48
1:A:754:ARG:N	1:A:810:ASN:HB3	2.28	0.48
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.13	0.48
1:B:60:THR:HG23	2:H:1922:VAL:HG13	1.96	0.48
1:B:959:PRO:HG2	2:H:974:GLU:HG3	1.96	0.48
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.14	0.48
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.95	0.48
1:C:720:GLN:HG3	1:D:378:GLU:OE2	2.14	0.48
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.46	0.48
1:D:859:VAL:O	1:D:859:VAL:HG12	2.13	0.48
1:D:967:PHE:CZ	1:D:1662:GLN:HA	2.49	0.48
1:E:1078:ILE:HG23	1:E:1352:MET:HE3	1.95	0.48
1:E:1084:GLU:CD	1:E:1084:GLU:H	2.17	0.48
1:A:562:SER:CB	1:F:555:GLN:OE1	2.62	0.48
2:G:1269:ALA:HB1	2:G:1271:TYR:CE1	2.49	0.48
2:G:1729:ASN:O	2:G:1757:ILE:HG23	2.13	0.48
2:G:608:MET:H	2:G:612:THR:CB	2.27	0.48
2:G:775:VAL:HG12	2:G:777:VAL:HG23	1.96	0.48
2:G:942:MET:O	2:G:951:ILE:HG13	2.14	0.48
2:H:1644:LEU:HB3	2:H:1645:PRO:CD	2.44	0.48
2:H:1769:VAL:HG13	2:H:1774:SER:C	2.34	0.48
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.44	0.48
2:I:1301:PHE:O	2:I:1364:ARG:N	2.41	0.48
2:I:1795:SER:HB3	2:I:1799:LEU:HD12	1.95	0.48
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.34	0.48
2:I:601:PRO:HA	2:I:602:PRO:HD3	1.76	0.48
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.34	0.48
2:J:505:THR:O	2:J:505:THR:HG22	2.14	0.48
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.44	0.48
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.28	0.48
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.78	0.48
2:K:609:THR:HA	2:K:631:ALA:HB1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:930:THR:CG2	2:K:933:GLU:H	2.24	0.48
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.48	0.48
2:L:1517:LEU:HD12	2:L:1521:GLU:HB2	1.95	0.48
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.79	0.48
1:C:759:ILE:HG12	1:C:813:LEU:HD23	1.96	0.48
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.49	0.48
1:D:1096:LEU:O	1:D:1097:LEU:HD23	2.14	0.48
1:D:684:THR:CG2	1:D:686:ARG:H	2.19	0.48
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.59	0.48
1:E:1686:PRO:HB2	1:E:1713:PHE:CE1	2.49	0.48
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.14	0.48
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.49	0.48
1:F:983:GLN:O	1:F:987:MET:HG3	2.13	0.48
2:G:1200:ARG:N	2:G:1200:ARG:HD3	2.10	0.48
2:G:1442:TYR:CG	2:G:1499:LYS:O	2.67	0.48
2:G:1977:ARG:HD3	2:G:1978:LYS:HG3	1.95	0.48
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.16	0.48
2:G:582:LYS:HA	2:G:587:GLN:O	2.13	0.48
2:H:1204:VAL:HA	2:H:1218:SER:O	2.14	0.48
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	2.13	0.48
2:H:1894:THR:HB	2:H:1954:GLN:OE1	2.14	0.48
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.94	0.48
2:H:1044:LYS:HE2	3:H:2102:NAP:H4B	1.96	0.48
2:H:300:THR:H	2:H:303:GLU:HB3	1.77	0.48
2:H:917:ARG:HB2	2:H:937:ARG:HD3	1.94	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG2	1.96	0.48
2:I:1881:TYR:CZ	2:I:2009:PHE:HE1	2.32	0.48
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.95	0.48
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.96	0.48
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.14	0.48
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.14	0.48
2:K:1234:ILE:HG22	2:K:1242:ILE:HG22	1.95	0.48
2:K:903:ILE:HD11	2:K:914:TRP:CZ2	2.48	0.48
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.28	0.48
2:L:1745:LEU:HD12	2:L:1746:THR:H	1.79	0.48
2:L:1746:THR:CB	2:L:1792:THR:HG23	2.40	0.48
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.42	0.48
2:L:290:VAL:CG1	2:L:314:LEU:HD23	2.42	0.48
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.49	0.48
2:L:489:GLU:O	2:L:493:MET:HG3	2.13	0.48
2:L:685:VAL:CG1	2:L:687:ILE:HG13	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:938:MET:O	2:L:942:MET:HG3	2.14	0.48
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.15	0.47
1:A:472:GLN:HE21	1:A:472:GLN:HA	1.79	0.47
1:A:493:PRO:HD2	1:A:517:ARG:O	2.14	0.47
1:B:857:ASN:HA	1:B:860:ALA:HB2	1.96	0.47
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.28	0.47
1:D:1213:VAL:CG1	1:D:1214:HIS:N	2.77	0.47
1:D:754:ARG:N	1:D:810:ASN:HB3	2.29	0.47
1:D:740:LEU:HD12	1:D:781:ILE:HD13	1.96	0.47
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.41	0.47
1:E:544:ASP:O	1:E:548:VAL:HG23	2.14	0.47
1:E:876:MET:O	1:E:876:MET:HE3	2.13	0.47
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.96	0.47
1:F:46:GLU:HB3	1:F:80:CYS:HA	1.96	0.47
1:F:869:ARG:O	1:F:903:GLY:HA3	2.13	0.47
2:G:48:LEU:HD13	2:G:101:VAL:HG11	1.94	0.47
2:G:821:GLU:CD	2:G:1083:ILE:HG13	2.34	0.47
2:G:1317:ASN:HB3	2:G:1320:ALA:CB	2.44	0.47
2:G:196:PHE:CD2	2:G:196:PHE:N	2.82	0.47
2:G:1886:VAL:HG22	2:G:1995:THR:HG22	1.95	0.47
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.44	0.47
2:G:907:ASN:OD1	2:G:913:VAL:HG12	2.14	0.47
2:H:1328:VAL:HA	2:H:1611:TYR:HE1	1.79	0.47
2:H:1734:ILE:O	2:H:1738:VAL:HG23	2.13	0.47
2:H:134:ILE:HG13	2:H:545:ILE:CD1	2.44	0.47
2:H:930:THR:O	2:H:934:VAL:HG23	2.13	0.47
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.29	0.47
2:I:276:LEU:HD21	2:I:296:ALA:HA	1.95	0.47
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.44	0.47
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.49	0.47
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.48	0.47
2:J:529:ASN:HD22	2:J:552:VAL:HG23	1.79	0.47
2:J:614:PRO:O	2:J:618:VAL:HG12	2.13	0.47
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.49	0.47
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.44	0.47
2:K:1204:VAL:HA	2:K:1218:SER:O	2.14	0.47
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.49	0.47
2:K:502:GLU:O	2:K:506:VAL:HG23	2.14	0.47
2:K:708:THR:HB	2:K:709:LEU:HD23	1.96	0.47
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.96	0.47
2:L:1047:LEU:N	2:L:1047:LEU:HD12	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1120:ILE:HG13	2:L:1169:TYR:CE2	2.49	0.47
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.95	0.47
2:L:196:PHE:N	2:L:196:PHE:CD2	2.82	0.47
2:L:270:ARG:HG3	2:L:274:GLU:CD	2.34	0.47
2:L:775:VAL:HG12	2:L:777:VAL:HG23	1.95	0.47
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.95	0.47
1:A:441:ASN:HB2	1:A:444:LEU:H	1.79	0.47
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.95	0.47
1:B:546:ARG:NH1	1:B:631:LYS:NZ	2.62	0.47
1:B:535:TYR:CD1	1:B:610:GLU:HB3	2.49	0.47
1:B:746:PHE:CD1	1:B:800:PRO:HG3	2.49	0.47
1:C:1443:LEU:HD22	1:C:1474:ILE:HD11	1.95	0.47
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.96	0.47
1:C:409:ASP:HB2	1:C:439:ARG:HH12	1.79	0.47
1:C:849:GLY:HA3	1:C:873:GLN:HG3	1.95	0.47
1:C:989:ASN:H	1:C:1491:ASN:ND2	2.00	0.47
1:D:1131:GLU:HG2	1:D:1138:TYR:CE2	2.49	0.47
1:D:1565:PRO:O	1:D:1566:LYS:C	2.52	0.47
1:E:457:THR:HG22	1:E:464:GLN:HA	1.96	0.47
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.77	0.47
1:F:1337:PRO:HA	1:F:1340:MET:HG3	1.95	0.47
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.14	0.47
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.47
2:G:193:TYR:HD1	2:G:263:ILE:HD13	1.77	0.47
2:G:966:VAL:O	2:G:970:PHE:HD1	1.96	0.47
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.47
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.97	0.47
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.14	0.47
2:H:1753:ARG:HG3	2:H:1756:ILE:CD1	2.43	0.47
2:H:1932:ASP:O	2:H:1936:LEU:HD23	2.14	0.47
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.44	0.47
2:I:1171:TRP:CD1	2:I:1172:ARG:N	2.83	0.47
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.15	0.47
2:I:2009:PHE:HD2	2:I:2009:PHE:C	2.18	0.47
2:I:501:TRP:CZ2	2:I:524:ILE:HG21	2.49	0.47
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.17	0.47
2:J:1171:TRP:CH2	2:J:1236:LEU:HB2	2.49	0.47
2:J:155:ASP:HB3	2:J:278:ARG:NH1	2.29	0.47
2:J:737:PHE:O	2:J:773:ASN:HB3	2.14	0.47
2:J:917:ARG:HD3	2:J:937:ARG:CZ	2.43	0.47
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:202:THR:O	2:K:206:GLU:HG3	2.13	0.47
2:K:600:VAL:HG13	2:K:601:PRO:N	2.28	0.47
2:L:1622:THR:HA	2:L:1627:ASN:OD1	2.13	0.47
2:L:1865:LEU:O	2:L:1869:VAL:HG22	2.14	0.47
2:L:208:LEU:HD23	2:L:211:LEU:HD12	1.96	0.47
2:L:459:LYS:O	2:L:461:PRO:HD3	2.14	0.47
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.47
2:L:92:GLU:HA	2:L:95:HIS:CE1	2.48	0.47
1:A:452:ILE:CD1	1:A:467:LYS:HA	2.43	0.47
1:A:502:ALA:HA	1:A:929:ARG:HD3	1.95	0.47
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.44	0.47
1:B:1514:ILE:HD13	1:B:1545:LEU:HB3	1.96	0.47
1:B:1565:PRO:O	1:B:1566:LYS:C	2.52	0.47
1:B:392:ASP:HA	1:B:393:PRO:HD2	1.70	0.47
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	2.11	0.47
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.14	0.47
1:D:1160:VAL:C	1:D:1352:MET:HE1	2.35	0.47
1:D:329:THR:O	1:D:332:GLN:HB2	2.14	0.47
1:D:914:LEU:HD11	1:D:918:LEU:HD12	1.97	0.47
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.28	0.47
1:E:1393:VAL:N	1:E:1394:PRO:CD	2.77	0.47
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.47
1:F:1102:ILE:HD11	1:F:1148:LEU:HG	1.95	0.47
1:F:560:LYS:O	1:F:564:LEU:HB2	2.15	0.47
2:G:1200:ARG:H	2:G:1200:ARG:CD	2.14	0.47
2:G:601:PRO:HB2	2:G:626:TYR:CE2	2.50	0.47
2:H:1722:ALA:HB1	2:H:1812:LEU:HD21	1.95	0.47
2:H:290:VAL:HG11	2:H:315:LEU:CD1	2.44	0.47
2:H:608:MET:HA	4:H:2101:FMN:N5	2.30	0.47
2:H:609:THR:HG23	4:H:2101:FMN:O4	2.14	0.47
2:I:1204:VAL:HA	2:I:1218:SER:O	2.14	0.47
2:I:1538:ASN:HB3	2:I:1541:ILE:CG2	2.42	0.47
2:I:440:HIS:NE2	2:I:499:VAL:HG23	2.28	0.47
2:I:747:ARG:HH11	2:I:780:SER:CB	2.24	0.47
2:I:907:ASN:OD1	2:I:913:VAL:HG12	2.14	0.47
1:D:42:GLU:HG3	2:J:1689:VAL:HG23	1.95	0.47
2:J:202:THR:HA	2:J:228:LEU:HD11	1.96	0.47
2:J:153:PRO:HB3	2:J:270:ARG:NH1	2.29	0.47
2:J:617:PHE:HE1	2:J:819:ALA:HB3	1.79	0.47
2:J:942:MET:O	2:J:951:ILE:HG13	2.14	0.47
2:K:1123:ALA:O	2:K:1126:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:655:GLY:HA3	2:K:1272:ALA:CB	2.44	0.47
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.96	0.47
2:K:501:TRP:CZ2	2:K:524:ILE:HG21	2.49	0.47
2:K:609:THR:HG23	4:K:2101:FMN:O4	2.15	0.47
2:K:635:TYR:CD2	2:K:641:MET:HG3	2.49	0.47
2:K:818:THR:HG22	2:K:829:LYS:CB	2.36	0.47
2:L:1743:LYS:HA	2:L:1798:GLY:HA2	1.97	0.47
2:L:1905:GLU:O	2:L:1908:ALA:HB3	2.15	0.47
2:L:372:LEU:CD1	2:L:397:SER:HB2	2.43	0.47
2:L:460:ILE:O	2:L:486:ILE:N	2.46	0.47
2:L:747:ARG:HH11	2:L:780:SER:CB	2.22	0.47
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.95	0.47
1:A:746:PHE:CG	3:A:1901:NAP:H4D	2.49	0.47
1:A:869:ARG:O	1:A:903:GLY:HA3	2.14	0.47
1:A:929:ARG:O	1:A:933:ILE:HG13	2.15	0.47
1:B:1599:MET:HA	1:B:1602:PHE:CD2	2.49	0.47
1:B:684:THR:CG2	1:B:686:ARG:H	2.18	0.47
1:B:846:TRP:HZ2	1:B:856:ASN:O	1.98	0.47
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.15	0.47
1:C:537:ASN:CB	1:C:585:MET:SD	3.02	0.47
1:C:875:GLU:O	1:C:878:PHE:HB3	2.13	0.47
1:D:1004:PRO:HD3	1:D:1572:TRP:HH2	1.79	0.47
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.14	0.47
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.95	0.47
1:E:383:TYR:O	1:E:387:ILE:HG12	2.14	0.47
1:F:1307:PHE:HB3	1:F:1357:CYS:HB3	1.97	0.47
1:F:441:ASN:HB2	1:F:444:LEU:H	1.79	0.47
1:F:498:THR:HG21	1:F:858:LEU:O	2.15	0.47
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.15	0.47
2:G:1338:ARG:HH21	2:I:326:TYR:HA	1.79	0.47
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.96	0.47
2:G:1945:ILE:HG22	2:G:1946:LEU:N	2.28	0.47
2:G:92:GLU:HA	2:G:95:HIS:CE1	2.49	0.47
2:G:937:ARG:NE	2:G:941:LEU:CD1	2.77	0.47
2:H:751:HIS:HB2	3:H:2102:NAP:N7N	2.29	0.47
2:I:167:VAL:HG23	2:I:169:ILE:HG13	1.95	0.47
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.96	0.47
2:I:290:VAL:HG11	2:I:315:LEU:CD1	2.44	0.47
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.80	0.47
2:I:511:THR:C	2:I:512:HIS:CD2	2.88	0.47
2:I:798:THR:HA	2:I:802:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.49	0.47
2:J:1887:ASN:OD1	2:J:1889:SER:HB2	2.13	0.47
2:J:528:THR:HA	2:J:531:ASN:ND2	2.29	0.47
2:J:872:GLY:HA2	2:J:909:ASP:O	2.15	0.47
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.43	0.47
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.15	0.47
2:K:22:ARG:HD2	2:K:42:HIS:HB3	1.95	0.47
2:K:385:SER:HA	2:K:502:GLU:OE1	2.14	0.47
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.13	0.47
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.14	0.47
2:L:1266:HIS:CD2	2:L:1275:ARG:CZ	2.97	0.47
2:L:1872:GLU:OE1	2:L:1872:GLU:HA	2.13	0.47
2:L:686:PRO:HB3	2:L:1187:PHE:HE1	1.76	0.47
1:A:408:GLN:CG	1:A:1610:ARG:NH1	2.78	0.47
1:A:565:GLN:O	1:A:569:LEU:HG	2.13	0.47
1:B:1042:LEU:HD12	1:B:1058:PRO:HG3	1.94	0.47
1:B:768:ARG:HA	1:B:772:THR:OG1	2.14	0.47
1:C:1229:THR:HB	1:C:1311:GLN:HG3	1.97	0.47
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.79	0.47
1:C:36:LEU:HD22	1:C:61:LEU:HD21	1.96	0.47
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.96	0.47
1:B:1496:ARG:NH2	1:D:1297:GLY:HA2	2.30	0.47
1:D:767:HIS:NE2	1:D:771:LEU:HD22	2.29	0.47
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.42	0.47
1:E:626:TRP:CE3	1:E:898:PHE:HB2	2.49	0.47
1:F:1082:GLU:HB2	1:F:1085:LEU:HD12	1.97	0.47
1:F:1584:GLY:HA2	1:F:1617:ILE:CD1	2.45	0.47
2:G:589:PHE:CD1	2:G:1116:PHE:CD2	3.02	0.47
2:G:1331:THR:HG22	2:G:1331:THR:O	2.14	0.47
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.13	0.47
2:G:1753:ARG:HG3	2:G:1756:ILE:CD1	2.44	0.47
2:H:1656:VAL:O	2:H:1656:VAL:HG22	2.14	0.47
2:H:1701:GLU:N	2:H:1704:MET:HE3	2.29	0.47
2:H:1805:PHE:O	2:H:1808:PRO:HD2	2.13	0.47
2:H:168:LYS:H	2:H:511:THR:HB	1.79	0.47
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.57	0.47
2:H:717:LYS:HD2	4:H:2101:FMN:O2	2.15	0.47
2:H:604:MET:CE	2:H:811:MET:HB2	2.45	0.47
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	2.15	0.47
2:I:300:THR:H	2:I:303:GLU:HB3	1.78	0.47
2:J:609:THR:HA	2:J:631:ALA:HB1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:76:VAL:HG11	2:J:109:PHE:CD1	2.49	0.47
2:J:818:THR:HA	2:J:829:LYS:HE2	1.97	0.47
2:K:76:VAL:HG11	2:K:109:PHE:CD1	2.49	0.47
2:K:1113:ILE:CG2	2:K:1169:TYR:CG	2.98	0.47
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.49	0.47
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.96	0.47
2:K:1766:PHE:CE1	2:K:1869:VAL:HG23	2.50	0.47
2:K:1961:SER:O	2:K:1965:VAL:HG22	2.15	0.47
2:K:388:ASN:HD22	2:K:389:PHE:N	2.13	0.47
2:L:1324:PHE:CA	2:L:1583:VAL:HG11	2.44	0.47
2:L:747:ARG:NH2	2:L:757:PHE:CE1	2.83	0.47
1:A:1186:VAL:HG12	1:A:1187:THR:N	2.30	0.47
1:A:1414:PRO:HG2	1:E:1473:HIS:NE2	2.30	0.47
1:A:1443:LEU:HD22	1:A:1474:ILE:HD11	1.96	0.47
1:A:413:MET:O	1:A:416:ASP:HB2	2.14	0.47
1:A:852:LEU:HD23	1:A:852:LEU:O	2.15	0.47
1:A:868:VAL:HG11	1:A:908:ILE:CD1	2.37	0.47
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.31	0.47
1:B:526:MET:HE3	1:B:614:PHE:HB2	1.97	0.47
1:B:849:GLY:HA3	1:B:873:GLN:HG3	1.97	0.47
1:C:984:LEU:HD21	1:C:1510:TRP:O	2.15	0.47
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.50	0.47
1:C:876:MET:HE3	1:C:876:MET:O	2.14	0.47
1:C:911:LEU:O	1:C:911:LEU:HD12	2.14	0.47
1:B:1148:LEU:CD1	1:D:1148:LEU:HD13	2.28	0.47
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.14	0.47
1:E:1404:ALA:HA	1:E:1501:ALA:HB1	1.96	0.47
1:E:407:ARG:NH2	1:E:1603:ASP:O	2.47	0.47
1:F:358:PHE:C	1:F:358:PHE:CD2	2.88	0.47
1:F:6:GLU:HA	2:L:2050:ILE:CD1	2.44	0.47
2:G:781:GLY:CA	2:G:1071:VAL:HG13	2.44	0.47
2:G:117:ASN:OD1	2:G:561:ARG:HB2	2.15	0.47
2:G:929:MET:HE1	2:G:934:VAL:HG22	1.95	0.47
2:H:1317:ASN:HB3	2:H:1320:ALA:CB	2.44	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.50	0.47
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.14	0.47
2:I:2009:PHE:CD2	2:I:2009:PHE:C	2.88	0.47
2:I:502:GLU:O	2:I:506:VAL:HG23	2.14	0.47
2:I:57:PRO:HB2	2:I:65:GLN:HE22	1.78	0.47
2:J:1331:THR:HG22	2:J:1331:THR:O	2.15	0.47
2:J:1555:VAL:HG12	2:J:1555:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.97	0.47
2:J:1753:ARG:HG3	2:J:1756:ILE:HD11	1.95	0.47
2:J:318:ILE:HA	2:J:451:ILE:HD13	1.97	0.47
2:J:35:PHE:CD2	2:J:37:VAL:HG22	2.48	0.47
2:K:1708:LEU:HD22	2:K:1708:LEU:O	2.14	0.47
2:K:1886:VAL:HG22	2:K:1995:THR:HG22	1.95	0.47
2:K:270:ARG:HG3	2:K:274:GLU:CD	2.34	0.47
2:K:290:VAL:CG1	2:K:314:LEU:HD23	2.44	0.47
2:K:490:LEU:HA	2:K:493:MET:SD	2.55	0.47
2:K:285:HIS:CD2	2:K:501:TRP:CE3	3.02	0.47
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.45	0.47
2:L:1311:GLY:HA3	2:L:1397:THR:HB	1.97	0.47
2:L:1555:VAL:O	2:L:1555:VAL:HG12	2.15	0.47
2:L:1722:ALA:HB1	2:L:1812:LEU:HD21	1.97	0.47
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.13	0.47
2:L:251:PRO:CG	2:L:316:PHE:HA	2.44	0.47
2:L:352:SER:HB2	2:L:433:LEU:HD11	1.96	0.47
2:L:765:TYR:CD2	2:L:805:MET:HG2	2.50	0.47
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.42	0.47
1:A:1599:MET:HA	1:A:1602:PHE:CD2	2.48	0.47
1:A:334:ALA:O	1:A:338:GLN:HG3	2.15	0.47
1:A:960:ARG:NH1	2:G:968:GLU:OE1	2.47	0.47
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.14	0.47
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.95	0.47
1:B:967:PHE:CD2	1:B:1662:GLN:HB2	2.50	0.47
1:D:392:ASP:HA	1:D:393:PRO:HD2	1.73	0.47
1:D:565:GLN:O	1:D:569:LEU:HG	2.13	0.47
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.14	0.47
1:F:1148:LEU:HA	1:F:1148:LEU:HD23	1.62	0.47
2:G:685:VAL:CG2	2:G:1186:ARG:HH12	2.19	0.47
2:G:1142:ILE:HG13	2:G:1209:PRO:HG2	1.97	0.47
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.79	0.47
2:G:276:LEU:HD21	2:G:296:ALA:HA	1.96	0.47
2:G:472:THR:HG23	2:G:499:VAL:HA	1.97	0.47
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.47
2:H:1655:HIS:HE1	2:H:1657:GLY:O	1.98	0.47
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.80	0.47
2:H:2009:PHE:CD2	2:H:2009:PHE:C	2.88	0.47
2:H:43:PHE:CB	2:I:22:ARG:NE	2.77	0.47
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.44	0.47
2:H:589:PHE:CD1	2:H:1116:PHE:CD2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:315:LEU:HA	2:I:318:ILE:HD12	1.95	0.47
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.45	0.47
2:J:1844:LEU:HD22	2:J:1850:VAL:HG21	1.97	0.47
2:J:2021:LEU:HD22	2:J:2025:ILE:HD11	1.96	0.47
2:J:594:MET:HB3	2:J:808:ASP:O	2.14	0.47
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.29	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.13	0.47
2:J:938:MET:O	2:J:942:MET:HG3	2.14	0.47
2:K:685:VAL:CG2	2:K:1186:ARG:NH1	2.69	0.47
2:K:1380:TYR:HD2	2:K:1429:VAL:HG22	1.80	0.47
2:K:1497:ARG:O	2:K:1505:SER:HB3	2.14	0.47
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.44	0.47
2:K:1551:ILE:HG22	2:K:1552:GLU:N	2.29	0.47
2:K:162:ALA:CA	2:K:167:VAL:HG22	2.42	0.47
2:K:1894:THR:HB	2:K:1954:GLN:OE1	2.15	0.47
2:K:728:ILE:O	2:K:732:LYS:HG3	2.14	0.47
2:L:1643:VAL:CG1	2:L:1649:ILE:HD11	2.44	0.47
2:L:1753:ARG:HG3	2:L:1756:ILE:CD1	2.44	0.47
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.48	0.47
2:L:76:VAL:HG11	2:L:109:PHE:HD1	1.79	0.47
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.50	0.47
1:A:1488:SER:HB3	1:E:1484:GLU:OE1	2.14	0.47
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.14	0.47
1:D:1075:HIS:HB3	1:D:1166:THR:HB	1.96	0.47
1:B:1106:LEU:HD12	1:D:1104:GLN:NE2	2.29	0.47
1:D:29:ILE:HD13	2:J:1923:ALA:HA	1.96	0.47
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.45	0.47
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.30	0.47
1:E:50:SER:HB2	1:E:52:THR:HG23	1.97	0.47
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.30	0.47
2:G:1028:VAL:HA	2:G:1029:PRO:HD3	1.74	0.47
2:G:1234:ILE:HG22	2:G:1242:ILE:HG22	1.96	0.47
2:G:1352:VAL:HG11	2:G:1395:LEU:HD12	1.96	0.47
2:G:168:LYS:H	2:G:511:THR:HB	1.80	0.47
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.14	0.47
2:G:1914:LEU:O	2:G:1931:GLY:HA3	2.14	0.47
2:G:271:GLU:H	2:G:274:GLU:HG3	1.80	0.47
2:G:381:SER:OG	2:G:392:THR:HG23	2.14	0.47
2:H:1047:LEU:H	2:H:1047:LEU:HD12	1.79	0.47
2:H:126:VAL:HG12	2:H:127:ALA:H	1.79	0.47
2:H:1370:LEU:CA	2:H:1435:TYR:HE2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1587:TYR:O	2:H:1588:ASN:C	2.53	0.47
2:H:1738:VAL:HA	2:H:1800:LEU:HD13	1.96	0.47
2:H:821:GLU:CD	2:H:1083:ILE:HG13	2.35	0.47
2:H:838:VAL:HG12	2:H:839:ASP:N	2.30	0.47
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.97	0.47
2:I:1886:VAL:HG22	2:I:1995:THR:HG22	1.97	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.45	0.47
2:I:708:THR:HB	2:I:709:LEU:HD23	1.96	0.47
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.39	0.47
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.29	0.47
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.96	0.47
2:J:1768:THR:O	2:J:1776:LYS:HB2	2.15	0.47
2:J:716:PHE:HD1	2:J:727:VAL:CG1	2.27	0.47
2:K:1321:VAL:HG12	2:K:1322:ALA:N	2.29	0.47
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.44	0.47
2:K:791:TYR:CD2	2:K:796:TRP:CG	3.03	0.47
2:K:611:THR:HG21	2:K:817:MET:HE2	1.95	0.47
2:K:846:THR:HG22	2:K:855:ILE:C	2.35	0.47
2:K:92:GLU:HA	2:K:95:HIS:CE1	2.49	0.47
2:L:1473:PHE:HE1	2:L:1513:VAL:HG21	1.79	0.47
2:L:250:PHE:O	2:L:315:LEU:HD23	2.15	0.47
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.44	0.47
2:L:534:GLY:O	2:L:571:ASP:HA	2.14	0.47
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.97	0.47
2:L:979:LEU:HB2	2:L:996:ILE:HG23	1.97	0.47
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.78	0.47
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.45	0.47
1:A:411:LEU:HD22	1:A:1612:ILE:HD13	1.96	0.47
1:A:960:ARG:HB3	2:G:969:ARG:NH1	2.30	0.47
1:B:427:ARG:NH1	1:B:427:ARG:CG	2.54	0.47
1:B:889:VAL:O	1:B:893:GLN:HG3	2.15	0.47
1:C:1414:PRO:HG2	1:F:1473:HIS:CD2	2.50	0.47
1:C:383:TYR:O	1:C:387:ILE:HG12	2.15	0.47
1:C:740:LEU:HD12	1:C:781:ILE:HD13	1.96	0.47
1:C:859:VAL:O	1:C:859:VAL:HG12	2.15	0.47
1:D:940:ASN:HB3	1:D:949:GLU:OE2	2.15	0.47
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.47
1:E:493:PRO:HD2	1:E:517:ARG:O	2.15	0.47
1:E:849:GLY:HA3	1:E:873:GLN:HG3	1.97	0.47
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.97	0.47
1:C:1104:GLN:HE22	1:F:1106:LEU:HD12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1232:LEU:HD23	1:F:1232:LEU:HA	1.67	0.47
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.97	0.47
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.96	0.47
1:F:457:THR:HG22	1:F:464:GLN:HA	1.97	0.47
2:G:1194:ARG:NH2	2:G:1601:ASN:HA	2.30	0.47
2:G:1350:ILE:HD13	2:G:1610:MET:SD	2.55	0.47
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.45	0.47
2:G:416:GLN:HE22	2:G:425:LYS:H	1.63	0.47
2:G:465:LEU:HB2	2:G:479:ARG:HG3	1.96	0.47
2:G:77:ALA:O	2:G:139:ALA:HB1	2.14	0.47
2:H:1404:VAL:HA	2:H:1412:MET:O	2.14	0.47
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.96	0.47
2:H:465:LEU:HB2	2:H:479:ARG:CG	2.45	0.47
2:H:609:THR:CB	2:H:610:PRO:HD3	2.44	0.47
2:I:1175:MET:HE1	2:I:1234:ILE:HG21	1.97	0.47
2:I:1375:HIS:CE1	2:I:1610:MET:SD	3.07	0.47
2:I:1903:VAL:HG11	2:I:1943:LEU:HD21	1.96	0.47
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.96	0.47
2:J:1204:VAL:HA	2:J:1218:SER:O	2.15	0.47
2:J:501:TRP:CZ2	2:J:524:ILE:HG21	2.50	0.47
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.15	0.47
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.39	0.47
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.45	0.47
2:K:608:MET:H	2:K:612:THR:CB	2.26	0.47
2:K:821:GLU:CD	2:K:1083:ILE:HG13	2.35	0.47
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.95	0.47
2:K:929:MET:HE1	2:K:934:VAL:HA	1.96	0.47
2:L:821:GLU:CD	2:L:1083:ILE:HG13	2.34	0.47
2:L:2008:THR:HG22	2:L:2011:ARG:HE	1.80	0.47
2:L:300:THR:H	2:L:303:GLU:HB3	1.79	0.47
2:L:609:THR:CG2	2:L:633:GLY:HA3	2.44	0.47
1:A:1172:ARG:HG3	1:A:1172:ARG:HH11	1.79	0.47
1:A:1218:VAL:HG22	1:A:1301:VAL:CG1	2.44	0.47
1:A:1702:ARG:HG2	1:A:1702:ARG:NH1	2.20	0.47
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.50	0.47
1:B:334:ALA:O	1:B:338:GLN:HG3	2.15	0.47
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.50	0.47
1:C:1303:LEU:HD23	1:C:1303:LEU:HA	1.62	0.47
1:C:1402:THR:HG22	1:F:1696:PHE:HB3	1.96	0.47
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.49	0.47
1:C:399:TYR:HH	1:C:692:THR:HG23	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:TRP:CD2	1:C:898:PHE:HD1	2.33	0.47
1:D:1306:GLY:O	1:D:1357:CYS:HB2	2.15	0.47
1:D:536:SER:HB3	1:D:540:LYS:HB3	1.96	0.47
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.45	0.47
1:E:1172:ARG:HG3	1:E:1172:ARG:HH11	1.80	0.47
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.97	0.47
1:E:1307:PHE:CB	1:E:1357:CYS:HB3	2.44	0.47
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.45	0.47
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.96	0.47
1:E:1514:ILE:CD1	1:E:1545:LEU:HB3	2.44	0.47
1:F:1484:GLU:O	1:F:1487:THR:HB	2.14	0.47
1:F:413:MET:O	1:F:416:ASP:HB2	2.15	0.47
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.15	0.47
2:G:1047:LEU:H	2:G:1047:LEU:HD12	1.80	0.47
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.98	0.47
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.50	0.47
1:A:9:LEU:HB2	2:G:2050:ILE:HD11	1.97	0.47
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.49	0.47
2:G:929:MET:CE	2:G:934:VAL:HA	2.45	0.47
2:H:1708:LEU:HD22	2:H:1708:LEU:O	2.15	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.45	0.47
2:H:912:LYS:HB3	2:H:1030:PHE:HA	1.97	0.47
2:I:1266:HIS:CD2	2:I:1275:ARG:CZ	2.98	0.47
2:I:1813:MET:HG3	2:I:1814:GLU:N	2.30	0.47
2:I:289:ILE:HG12	2:I:493:MET:CE	2.43	0.47
2:I:520:GLY:C	2:I:522:SER:H	2.17	0.47
2:I:609:THR:CB	2:I:610:PRO:HD3	2.44	0.47
2:I:609:THR:HA	2:I:631:ALA:HB1	1.95	0.47
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.97	0.47
2:J:870:THR:HG21	2:J:1064:THR:O	2.15	0.47
2:J:1200:ARG:CD	2:J:1200:ARG:H	2.13	0.47
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.67	0.47
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.45	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.59	0.47
2:J:871:ARG:HB2	2:J:909:ASP:HB2	1.96	0.47
2:K:1269:ALA:HB1	2:K:1271:TYR:CE1	2.50	0.47
2:K:1278:MET:HA	2:K:1281:ARG:HB2	1.97	0.47
2:K:1301:PHE:HB3	2:K:1364:ARG:HG3	1.97	0.47
2:L:1910:VAL:HG11	2:L:1973:ILE:HG21	1.97	0.47
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	1.97	0.47
2:L:608:MET:HA	4:L:2101:FMN:N5	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:571:ASP:OD1	2:L:573:VAL:HG23	2.15	0.47
2:L:929:MET:HE1	2:L:934:VAL:HA	1.97	0.47
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.96	0.47
1:A:383:TYR:O	1:A:387:ILE:HG12	2.15	0.47
1:A:534:GLN:HA	1:A:610:GLU:O	2.15	0.47
1:A:940:ASN:HB3	1:A:949:GLU:OE2	2.15	0.47
1:B:1052:ASP:O	1:B:1055:THR:O	2.32	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:C:34:VAL:HG21	2:I:2045:ALA:O	2.14	0.47
1:C:46:GLU:HB3	1:C:80:CYS:HA	1.98	0.47
1:C:889:VAL:O	1:C:893:GLN:HG3	2.15	0.47
1:D:334:ALA:O	1:D:338:GLN:HG3	2.15	0.47
1:D:445:LEU:O	1:D:448:MET:HB2	2.15	0.47
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.96	0.47
2:G:1342:PHE:HE2	2:G:1391:VAL:HB	1.79	0.47
2:G:663:ILE:HD12	2:G:663:ILE:N	2.27	0.47
2:H:1602:LEU:HB3	2:H:1604:GLY:H	1.80	0.47
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.14	0.47
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.96	0.47
2:H:846:THR:HG22	2:H:855:ILE:C	2.36	0.47
2:I:788:THR:CG2	2:I:1094:HIS:CE1	2.98	0.47
2:I:204:ILE:HG21	2:I:312:VAL:HG21	1.97	0.47
2:I:314:LEU:HG	2:I:318:ILE:CD1	2.45	0.47
2:I:717:LYS:HD2	4:I:2101:FMN:O2	2.16	0.47
2:J:1655:HIS:HE1	2:J:1657:GLY:O	1.98	0.47
2:K:48:LEU:HD13	2:K:101:VAL:HG11	1.95	0.47
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.97	0.47
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.97	0.47
2:K:749:GLY:HA3	4:K:2101:FMN:HM81	1.97	0.47
2:K:460:ILE:CD1	2:K:487:ILE:HD11	2.44	0.47
2:L:1265:TYR:HE1	2:L:1267:PRO:HG3	1.73	0.47
2:L:1351:VAL:HG23	2:L:1584:SER:HA	1.97	0.47
2:L:1472:TRP:CE2	2:L:1540:VAL:HG22	2.50	0.47
2:L:1656:VAL:HG22	2:L:1656:VAL:O	2.15	0.47
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.15	0.47
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.79	0.47
2:L:291:VAL:O	2:L:295:ILE:HB	2.14	0.47
2:L:594:MET:HB3	2:L:808:ASP:O	2.14	0.47
2:L:613:VAL:N	2:L:614:PRO:HD3	2.30	0.47
2:L:980:LEU:HD22	2:L:986:LEU:HD21	1.97	0.47
1:A:1011:ARG:C	1:A:1011:ARG:HD2	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.30	0.46
1:A:536:SER:HB3	1:A:540:LYS:HB3	1.97	0.46
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.96	0.46
1:B:1078:ILE:HG23	1:B:1352:MET:CE	2.45	0.46
1:B:574:ILE:H	1:B:574:ILE:HG12	1.60	0.46
1:C:1698:ASN:HA	1:C:1699:PRO:HD3	1.83	0.46
1:C:484:PRO:HA	1:C:485:PRO:HD3	1.80	0.46
1:D:1249:ILE:H	1:D:1249:ILE:HG13	1.32	0.46
1:D:1335:ARG:HH11	1:D:1339:GLU:HG2	1.79	0.46
1:D:358:PHE:CD2	1:D:358:PHE:C	2.89	0.46
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.08	0.46
1:E:29:ILE:HG13	2:K:1920:TYR:O	2.15	0.46
1:E:553:ARG:NH2	1:E:567:ASN:HD21	2.13	0.46
1:E:631:LYS:O	1:E:635:ILE:HG22	2.15	0.46
1:E:846:TRP:HZ2	1:E:856:ASN:O	1.98	0.46
1:F:1207:TYR:CE2	1:F:1682:LYS:HD2	2.50	0.46
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.45	0.46
2:G:912:LYS:HB3	2:G:1030:PHE:HA	1.96	0.46
2:G:1171:TRP:CH2	2:G:1236:LEU:HB2	2.49	0.46
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.97	0.46
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.15	0.46
2:G:1887:ASN:OD1	2:G:1889:SER:HB2	2.14	0.46
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.16	0.46
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.45	0.46
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.46
2:G:608:MET:HA	4:G:2101:FMN:C5A	2.45	0.46
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.96	0.46
2:H:1009:ASN:HB2	2:H:1012:ASP:OD2	2.15	0.46
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.29	0.46
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.96	0.46
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.03	0.46
1:B:21:GLN:O	2:H:2006:HIS:HD2	1.98	0.46
2:H:381:SER:OG	2:H:392:THR:HG23	2.15	0.46
2:H:57:PRO:HB2	2:H:65:GLN:HE22	1.79	0.46
2:I:1026:LYS:HG2	2:I:1027:PRO:HD2	1.98	0.46
2:I:1722:ALA:HB1	2:I:1812:LEU:HD21	1.97	0.46
2:I:622:MET:O	2:I:656:ARG:NH1	2.48	0.46
2:J:1279:GLU:CD	2:J:1279:GLU:H	2.18	0.46
2:J:1443:GLU:HA	2:J:1443:GLU:OE1	2.15	0.46
2:J:196:PHE:CD2	2:J:196:PHE:N	2.84	0.46
2:J:357:THR:HG22	2:J:359:SER:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:57:PRO:HB2	2:J:65:GLN:HE22	1.80	0.46
2:K:1074:LYS:HG3	2:K:1075:TYR:CD1	2.49	0.46
2:K:1335:PHE:CZ	2:K:1629:ILE:HD13	2.50	0.46
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.46
1:E:943:VAL:CG2	2:K:1539:PRO:HG3	2.45	0.46
2:K:1293:TRP:HE1	2:K:1586:ASP:HA	1.80	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:HD11	1.96	0.46
1:E:13:LEU:HD11	2:K:2058:VAL:HG21	1.96	0.46
2:K:391:VAL:HG12	2:K:398:LEU:HD21	1.97	0.46
2:K:746:GLY:O	2:K:843:TRP:NE1	2.48	0.46
2:L:1336:VAL:O	2:L:1336:VAL:HG12	2.15	0.46
2:L:1380:TYR:HD2	2:L:1429:VAL:HG22	1.80	0.46
2:L:1655:HIS:HE1	2:L:1657:GLY:O	1.98	0.46
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.78	0.46
2:L:528:THR:HA	2:L:531:ASN:ND2	2.30	0.46
2:L:613:VAL:H	2:L:614:PRO:HD3	1.80	0.46
2:L:718:PRO:HG3	2:L:727:VAL:CG2	2.45	0.46
2:L:796:TRP:HH2	2:L:805:MET:HE1	1.78	0.46
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.45	0.46
1:A:50:SER:HB2	1:A:52:THR:HG23	1.97	0.46
1:A:661:GLY:O	1:A:667:ALA:HB2	2.15	0.46
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.46
1:B:28:TRP:HE1	1:B:32:GLN:NE2	2.13	0.46
1:B:382:ILE:HG13	1:B:382:ILE:H	1.59	0.46
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.97	0.46
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.96	0.46
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.44	0.46
1:D:844:ILE:HD12	1:D:844:ILE:N	2.31	0.46
1:D:889:VAL:O	1:D:893:GLN:HG3	2.15	0.46
1:B:347:LEU:HD12	1:E:340:LEU:HD12	1.96	0.46
1:E:519:PHE:O	1:E:523:VAL:HG23	2.14	0.46
1:E:673:LEU:HD21	1:E:884:MET:HE3	1.97	0.46
1:F:914:LEU:O	1:F:917:LYS:HB3	2.15	0.46
2:G:1050:SER:HA	2:G:1064:THR:HG21	1.97	0.46
2:G:1377:SER:HB3	2:G:1432:GLN:HB2	1.96	0.46
2:G:1420:LYS:HG2	2:G:1425:PRO:CA	2.43	0.46
2:G:357:THR:HG22	2:G:359:SER:H	1.80	0.46
2:G:670:MET:CE	2:G:674:ILE:HD11	2.45	0.46
2:G:779:GLY:HA3	2:G:811:MET:CE	2.44	0.46
2:H:709:LEU:N	2:H:709:LEU:HD23	2.26	0.46
2:H:718:PRO:HG3	2:H:727:VAL:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1370:LEU:CA	2:I:1435:TYR:HE2	2.27	0.46
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.15	0.46
2:I:207:LEU:HD22	2:I:309:LYS:HG3	1.95	0.46
2:I:173:PHE:CE2	2:I:516:PHE:HB2	2.50	0.46
2:I:746:GLY:O	2:I:843:TRP:NE1	2.47	0.46
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.96	0.46
2:J:1886:VAL:HG22	2:J:1995:THR:HG22	1.97	0.46
2:J:357:THR:O	2:J:361:VAL:HG23	2.15	0.46
2:J:245:SER:HA	2:J:436:THR:OG1	2.15	0.46
2:J:608:MET:HA	4:J:2101:FMN:N5	2.30	0.46
2:J:686:PRO:HB3	2:J:1187:PHE:CE1	2.51	0.46
2:J:708:THR:HB	2:J:709:LEU:HD23	1.97	0.46
2:J:821:GLU:CD	2:J:1083:ILE:HG13	2.35	0.46
2:K:1352:VAL:HG11	2:K:1395:LEU:HD12	1.97	0.46
2:K:1359:LYS:O	2:K:1362:PHE:HD1	1.98	0.46
2:K:1656:VAL:O	2:K:1656:VAL:HG22	2.15	0.46
2:K:1749:PHE:CD2	2:K:1758:ARG:HB3	2.50	0.46
2:K:221:TYR:CD2	2:K:225:LEU:HD22	2.50	0.46
2:K:462:ALA:HB3	2:K:483:ASP:HA	1.97	0.46
2:L:1044:LYS:HE2	3:L:2102:NAP:H4B	1.97	0.46
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	2.16	0.46
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.35	0.46
2:L:2053:GLU:HA	2:L:2056:GLU:OE1	2.14	0.46
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.16	0.46
2:L:465:LEU:HB2	2:L:479:ARG:CG	2.46	0.46
2:L:502:GLU:O	2:L:506:VAL:HG23	2.14	0.46
2:L:907:ASN:HD21	2:L:917:ARG:HE	1.62	0.46
1:A:1457:GLU:HG3	1:A:1457:GLU:H	1.47	0.46
1:A:564:LEU:O	1:A:567:ASN:HB2	2.15	0.46
1:A:687:PHE:C	1:A:687:PHE:CD2	2.88	0.46
1:A:782:LYS:NZ	1:A:786:LYS:HD2	2.31	0.46
1:A:859:VAL:O	1:A:859:VAL:HG12	2.14	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.25	0.46
1:B:1079:ARG:HG2	1:B:1079:ARG:NH1	2.11	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.44	0.46
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.16	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.50	0.46
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.30	0.46
1:D:1457:GLU:HG3	1:D:1457:GLU:H	1.51	0.46
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1577:CYS:HB3	1:E:1620:PHE:CD2	2.50	0.46
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.51	0.46
1:E:740:LEU:HD12	1:E:781:ILE:HD13	1.98	0.46
1:E:746:PHE:CD1	1:E:800:PRO:HG3	2.50	0.46
1:F:1083:PRO:HD2	1:F:1084:GLU:OE2	2.16	0.46
1:F:940:ASN:HB3	1:F:949:GLU:OE2	2.16	0.46
2:G:1722:ALA:HB1	2:G:1812:LEU:HD21	1.97	0.46
2:G:291:VAL:O	2:G:295:ILE:HB	2.15	0.46
2:G:585:VAL:HG12	2:G:585:VAL:O	2.15	0.46
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.97	0.46
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.50	0.46
2:H:372:LEU:CD1	2:H:397:SER:HB2	2.46	0.46
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.28	0.46
1:B:960:ARG:HH11	2:H:968:GLU:HB3	1.80	0.46
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.97	0.46
2:I:1804:GLN:HB3	2:I:1861:PHE:HE1	1.81	0.46
2:I:1933:LEU:HB3	2:I:1987:VAL:CG1	2.46	0.46
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.50	0.46
2:J:48:LEU:HD11	2:J:101:VAL:HG11	1.96	0.46
2:J:1179:GLU:N	2:J:1179:GLU:OE1	2.45	0.46
2:J:1464:LEU:HD13	2:J:1468:ARG:HG3	1.97	0.46
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.30	0.46
2:J:1977:ARG:HD3	2:J:1978:LYS:HG3	1.97	0.46
2:J:785:SER:HB3	2:J:1090:ILE:HG23	1.98	0.46
2:K:1009:ASN:HB2	2:K:1012:ASP:OD2	2.16	0.46
2:K:1181:PHE:HE1	2:K:1191:PRO:HD2	1.74	0.46
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.96	0.46
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.42	0.46
2:K:827:GLN:O	2:K:830:GLN:HB3	2.16	0.46
2:L:1104:ASP:N	2:L:1104:ASP:OD1	2.48	0.46
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.26	0.46
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.50	0.46
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.46	0.46
2:L:48:LEU:HD13	2:L:101:VAL:HG11	1.95	0.46
2:L:601:PRO:HB2	2:L:626:TYR:CE2	2.50	0.46
2:L:756:ASP:CA	2:L:843:TRP:HH2	2.28	0.46
1:B:1017:TYR:N	1:B:1017:TYR:CD1	2.81	0.46
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.15	0.46
1:B:1075:HIS:HB3	1:B:1166:THR:HB	1.97	0.46
1:B:1393:VAL:N	1:B:1394:PRO:CD	2.79	0.46
1:B:1592:ALA:O	1:B:1593:ASP:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:852:LEU:O	1:B:852:LEU:HD23	2.16	0.46
1:B:869:ARG:O	1:B:903:GLY:HA3	2.15	0.46
1:C:1131:GLU:HG2	1:C:1138:TYR:CE2	2.50	0.46
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	2.30	0.46
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.42	0.46
1:D:1052:ASP:O	1:D:1055:THR:O	2.34	0.46
1:D:1703:VAL:HG22	1:D:1712:LYS:C	2.35	0.46
1:D:383:TYR:O	1:D:387:ILE:HG12	2.15	0.46
1:E:1672:GLY:O	1:E:1676:ASN:N	2.48	0.46
1:E:441:ASN:HB2	1:E:444:LEU:H	1.81	0.46
1:F:1065:LYS:O	1:F:1069:GLU:HB2	2.16	0.46
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.46
1:F:1172:ARG:HG3	1:F:1172:ARG:HH11	1.80	0.46
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.48	0.46
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.16	0.46
1:F:1514:ILE:H	1:F:1514:ILE:HG13	1.35	0.46
1:F:49:PRO:HG2	2:L:1810:LEU:HD21	1.97	0.46
2:G:44:GLN:HG3	2:G:101:VAL:CG2	2.46	0.46
2:G:1346:MET:CE	2:G:1617:ARG:NH2	2.79	0.46
2:H:1370:LEU:CD1	2:H:1373:LEU:HD13	2.44	0.46
2:H:1472:TRP:CE2	2:H:1540:VAL:HG22	2.51	0.46
2:H:317:TRP:O	2:H:321:ARG:HG2	2.15	0.46
2:H:708:THR:HB	2:H:709:LEU:HD23	1.96	0.46
2:H:871:ARG:HB2	2:H:909:ASP:HB2	1.97	0.46
2:I:1009:ASN:HB2	2:I:1012:ASP:OD2	2.16	0.46
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.16	0.46
2:I:1932:ASP:O	2:I:1936:LEU:HD23	2.14	0.46
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.45	0.46
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.15	0.46
2:J:129:ILE:HG21	2:J:132:LYS:HD2	1.97	0.46
2:J:1517:LEU:HD12	2:J:1521:GLU:HB2	1.96	0.46
2:J:1538:ASN:HB3	2:J:1541:ILE:CG2	2.44	0.46
2:J:167:VAL:C	2:J:168:LYS:HD2	2.36	0.46
1:D:42:GLU:H	2:J:1689:VAL:HB	1.79	0.46
2:J:2008:THR:HG22	2:J:2011:ARG:HE	1.79	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.13	0.46
2:J:907:ASN:OD1	2:J:913:VAL:HG12	2.16	0.46
2:K:1002:GLU:C	2:K:1004:SER:H	2.18	0.46
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.96	0.46
2:K:211:LEU:HD13	2:K:313:GLU:HG3	1.98	0.46
2:K:251:PRO:CG	2:K:316:PHE:HA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:26:LEU:HD23	2:K:49:LYS:HG3	1.98	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.50	0.46
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.51	0.46
2:K:907:ASN:HA	2:K:913:VAL:HG13	1.98	0.46
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.45	0.46
2:L:788:THR:CG2	2:L:1094:HIS:CE1	2.99	0.46
2:L:580:LEU:HG	2:L:1098:LEU:HD23	1.97	0.46
2:L:1331:THR:O	2:L:1331:THR:HG22	2.15	0.46
2:L:356:LEU:HA	2:L:356:LEU:HD22	1.77	0.46
2:L:608:MET:HB3	2:L:608:MET:HE2	1.50	0.46
2:L:779:GLY:HA3	2:L:811:MET:CE	2.46	0.46
1:B:718:SER:HA	1:E:378:GLU:OE1	2.16	0.46
1:C:1484:GLU:O	1:C:1487:THR:HB	2.16	0.46
1:C:457:THR:HG22	1:C:464:GLN:HA	1.98	0.46
1:D:1102:ILE:HD11	1:D:1148:LEU:HG	1.96	0.46
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.44	0.46
1:D:1584:GLY:HA2	1:D:1617:ILE:CD1	2.45	0.46
1:D:1702:ARG:NH1	1:D:1702:ARG:HG2	2.15	0.46
1:D:21:GLN:HB3	1:D:21:GLN:HE21	1.58	0.46
1:D:441:ASN:HB2	1:D:444:LEU:H	1.80	0.46
1:D:914:LEU:HD11	1:D:918:LEU:CD1	2.45	0.46
1:E:1102:ILE:HD11	1:E:1148:LEU:HG	1.98	0.46
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.46	0.46
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.98	0.46
1:E:1556:ILE:CD1	1:E:1587:PRO:HD2	2.44	0.46
1:E:1565:PRO:O	1:E:1566:LYS:C	2.52	0.46
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.46
1:E:684:THR:CG2	1:E:686:ARG:H	2.23	0.46
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.30	0.46
2:G:1746:THR:CB	2:G:1792:THR:HG23	2.39	0.46
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.46
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.50	0.46
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.31	0.46
2:H:1411:LYS:HB2	2:H:1439:TYR:CD1	2.49	0.46
2:H:2053:GLU:HA	2:H:2056:GLU:OE1	2.15	0.46
2:H:270:ARG:HG3	2:H:274:GLU:CD	2.36	0.46
2:I:1106:LYS:HD3	2:I:1106:LYS:HA	1.77	0.46
2:I:1701:GLU:H	2:I:1704:MET:HE3	1.79	0.46
2:I:1891:ILE:HD12	2:I:1895:PHE:CE2	2.51	0.46
2:J:912:LYS:HB3	2:J:1030:PHE:HA	1.98	0.46
2:J:1351:VAL:CG1	2:J:1352:VAL:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:174:GLY:HA2	2:J:524:ILE:CG1	2.45	0.46
2:J:352:SER:HB2	2:J:433:LEU:HD11	1.98	0.46
2:J:875:PHE:HE2	2:J:906:LEU:HD23	1.81	0.46
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.95	0.46
2:K:1538:ASN:HB3	2:K:1541:ILE:CG2	2.45	0.46
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.95	0.46
2:K:867:LYS:HB2	2:K:873:VAL:HG11	1.98	0.46
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.45	0.46
2:L:489:GLU:O	2:L:492:ARG:HG2	2.15	0.46
2:L:785:SER:HB3	2:L:1090:ILE:HG23	1.97	0.46
2:L:606:ALA:HB2	2:L:811:MET:CG	2.45	0.46
1:A:1078:ILE:HA	1:A:1162:GLY:HA2	1.97	0.46
1:A:1343:PRO:O	1:A:1531:ASP:OD2	2.34	0.46
1:A:1494:TRP:CG	1:A:1505:GLY:HA3	2.51	0.46
1:B:1296:GLN:HE21	1:D:1296:GLN:HG2	1.80	0.46
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.97	0.46
1:B:401:SER:O	1:B:405:TRP:CD1	2.69	0.46
1:B:472:GLN:HE21	1:B:472:GLN:HA	1.81	0.46
1:C:1031:MET:HE2	1:C:1031:MET:HB3	1.78	0.46
1:C:411:LEU:CD2	1:C:1612:ILE:HD13	2.45	0.46
1:C:987:MET:O	1:C:1490:GLY:HA3	2.15	0.46
1:D:687:PHE:CD2	1:D:687:PHE:C	2.89	0.46
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.15	0.46
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.46
1:A:1402:THR:HG22	1:E:1696:PHE:HB3	1.97	0.46
1:E:869:ARG:HB2	1:E:869:ARG:HE	1.62	0.46
1:E:79:LEU:HD12	1:E:88:ILE:HD13	1.98	0.46
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.98	0.46
1:F:859:VAL:HG12	1:F:859:VAL:O	2.14	0.46
2:G:1009:ASN:HD22	2:G:1009:ASN:HA	1.53	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:1725:HIS:CD2	2:G:1854:GLU:CB	2.98	0.46
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.77	0.46
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.97	0.46
2:G:314:LEU:HG	2:G:318:ILE:CD1	2.44	0.46
2:G:352:SER:HB2	2:G:433:LEU:HD11	1.97	0.46
2:G:440:HIS:NE2	2:G:499:VAL:HG23	2.31	0.46
2:G:827:GLN:H	2:G:827:GLN:CD	2.18	0.46
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.30	0.46
2:H:1555:VAL:HG12	2:H:1555:VAL:O	2.15	0.46
2:H:749:GLY:HA3	4:H:2101:FMN:HM81	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:609:THR:HA	2:H:631:ALA:HB1	1.98	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.51	0.46
2:H:618:VAL:HG11	2:H:648:ILE:HD11	1.96	0.46
2:I:870:THR:HG21	2:I:1064:THR:O	2.16	0.46
2:I:1234:ILE:HG22	2:I:1242:ILE:HG22	1.96	0.46
2:I:154:TYR:CD1	2:I:561:ARG:NH2	2.84	0.46
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.15	0.46
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.97	0.46
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.31	0.46
2:J:1742:PRO:O	2:J:1799:LEU:HD13	2.15	0.46
2:J:2053:GLU:HA	2:J:2056:GLU:OE1	2.16	0.46
2:J:719:GLY:O	2:J:755:GLU:HG3	2.16	0.46
2:J:797:SER:O	2:J:802:TYR:HB2	2.16	0.46
2:J:827:GLN:H	2:J:827:GLN:CD	2.18	0.46
2:K:1456:LEU:HD11	2:K:1543:TYR:CE2	2.49	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:CD1	2.46	0.46
2:K:534:GLY:O	2:K:571:ASP:HA	2.15	0.46
2:L:1002:GLU:C	2:L:1004:SER:H	2.18	0.46
2:L:2009:PHE:C	2:L:2009:PHE:CD2	2.88	0.46
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.69	0.46
1:A:1592:ALA:O	1:A:1593:ASP:C	2.54	0.46
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.97	0.46
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.55	0.46
1:B:1371:MET:O	1:B:1661:ARG:NH1	2.47	0.46
1:B:46:GLU:HB3	1:B:80:CYS:HA	1.98	0.46
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.46	0.46
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.36	0.46
1:C:440:SER:HB3	1:C:481:LEU:CD2	2.42	0.46
1:D:1208:GLU:OE2	1:D:1661:ARG:NH2	2.47	0.46
1:D:1484:GLU:O	1:D:1487:THR:HB	2.16	0.46
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.15	0.46
1:D:492:ILE:H	1:D:492:ILE:HG13	1.45	0.46
1:E:1142:LEU:HD12	1:E:1142:LEU:N	2.31	0.46
1:E:1546:GLY:O	1:E:1547:ARG:C	2.54	0.46
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.46
1:E:687:PHE:CD2	1:E:687:PHE:C	2.89	0.46
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.98	0.46
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.15	0.46
1:F:1313:GLU:HG2	1:F:1313:GLU:H	1.47	0.46
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.97	0.46
2:G:1236:LEU:HD12	2:G:1241:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1232:VAL:HA	2:G:1245:THR:O	2.15	0.46
2:G:609:THR:HA	2:G:631:ALA:HB1	1.98	0.46
2:G:718:PRO:HG3	2:G:727:VAL:CG2	2.46	0.46
2:H:1179:GLU:OE1	2:H:1179:GLU:N	2.49	0.46
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.97	0.46
2:H:208:LEU:HD12	2:H:227:ILE:CD1	2.43	0.46
2:H:353:ILE:O	2:H:353:ILE:HG22	2.16	0.46
2:I:1655:HIS:HE1	2:I:1657:GLY:O	1.99	0.46
2:I:1920:TYR:HD2	2:I:1927:TYR:HE2	1.62	0.46
1:C:12:THR:CG2	2:I:2066:LYS:HD3	2.45	0.46
2:I:391:VAL:HG12	2:I:398:LEU:HD21	1.96	0.46
2:I:616:ASP:OD2	2:I:823:HIS:NE2	2.48	0.46
2:J:1181:PHE:HE1	2:J:1191:PRO:HD2	1.79	0.46
2:J:1231:THR:CG2	2:J:1595:VAL:HG11	2.46	0.46
2:J:1491:ARG:O	2:J:1492:LEU:HD23	2.15	0.46
2:J:1635:TYR:CE2	2:J:1637:VAL:HG23	2.51	0.46
2:J:250:PHE:O	2:J:315:LEU:HD23	2.16	0.46
2:J:747:ARG:NH1	2:J:780:SER:O	2.48	0.46
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	1.97	0.46
2:K:1325:VAL:HG13	2:K:1330:ASN:O	2.15	0.46
2:K:1587:TYR:O	2:K:1588:ASN:C	2.53	0.46
2:K:1602:LEU:HB3	2:K:1604:GLY:H	1.81	0.46
1:E:8:GLU:HG2	2:K:2027:LYS:HD3	1.97	0.46
2:K:685:VAL:HA	2:K:686:PRO:HD3	1.63	0.46
2:K:690:LEU:HB2	2:K:711:ILE:HG21	1.97	0.46
2:L:1106:LYS:HA	2:L:1106:LYS:HD3	1.76	0.46
2:L:1299:VAL:HG13	2:L:1301:PHE:CE1	2.51	0.46
2:L:1404:VAL:HA	2:L:1412:MET:O	2.15	0.46
2:L:1914:LEU:O	2:L:1931:GLY:HA3	2.16	0.46
2:L:1966:ARG:HG3	2:L:1967:ALA:N	2.30	0.46
2:L:490:LEU:HD23	2:L:493:MET:SD	2.56	0.46
2:L:609:THR:HA	2:L:631:ALA:HB1	1.98	0.46
2:L:737:PHE:O	2:L:773:ASN:HB3	2.15	0.46
1:A:24:MET:HB3	2:G:2043:VAL:HG12	1.97	0.46
1:A:902:ASN:C	1:A:904:GLY:H	2.19	0.46
1:B:1078:ILE:HA	1:B:1162:GLY:HA2	1.98	0.46
1:B:17:LEU:HD23	2:H:2043:VAL:CG2	2.45	0.46
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.51	0.46
1:C:1157:ASP:O	1:C:1327:ALA:HB3	2.16	0.46
1:C:1218:VAL:O	1:C:1271:GLY:HA3	2.16	0.46
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.97	0.46
1:D:1172:ARG:HH11	1:D:1172:ARG:HG3	1.80	0.46
1:D:984:LEU:HD21	1:D:1510:TRP:O	2.16	0.46
1:D:1579:GLN:O	1:D:1583:THR:HG23	2.16	0.46
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.42	0.46
1:D:519:PHE:O	1:D:523:VAL:HG23	2.16	0.46
1:D:849:GLY:HA3	1:D:873:GLN:HG3	1.97	0.46
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.97	0.46
1:E:1522:PHE:HB2	1:E:1557:PHE:CD1	2.51	0.46
1:E:1584:GLY:HA2	1:E:1617:ILE:HD12	1.98	0.46
1:E:661:GLY:O	1:E:667:ALA:HB2	2.16	0.46
1:F:879:ASN:HB3	1:F:901:LEU:HD13	1.98	0.46
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.16	0.46
2:G:2052:LYS:HG2	2:G:2052:LYS:H	1.42	0.46
2:G:2053:GLU:HA	2:G:2056:GLU:OE1	2.16	0.46
2:G:511:THR:C	2:G:512:HIS:CD2	2.89	0.46
2:G:534:GLY:O	2:G:571:ASP:HA	2.15	0.46
2:H:1019:LEU:HA	2:H:1022:ARG:HD2	1.96	0.46
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.16	0.46
2:H:1643:VAL:CG1	2:H:1649:ILE:HD11	2.46	0.46
2:H:358:ARG:HB2	2:H:389:PHE:CE2	2.51	0.46
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.75	0.46
2:I:1157:VAL:HG22	2:I:1198:PRO:HD2	1.98	0.46
2:I:1734:ILE:O	2:I:1738:VAL:HG23	2.15	0.46
2:I:460:ILE:CD1	2:I:487:ILE:HD11	2.45	0.46
2:I:26:LEU:HD23	2:I:49:LYS:HG3	1.97	0.46
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.16	0.46
2:J:1359:LYS:O	2:J:1362:PHE:HD1	1.98	0.46
2:J:1483:LEU:H	2:J:1483:LEU:HG	1.11	0.46
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.15	0.46
2:J:1985:GLN:C	2:J:1987:VAL:N	2.67	0.46
1:E:71:ALA:HB3	2:J:371:HIS:HB2	1.98	0.46
2:J:751:HIS:HB2	3:J:2102:NAP:N7N	2.30	0.46
2:K:1350:ILE:HD13	2:K:1610:MET:SD	2.56	0.46
2:K:1807:GLN:HB3	2:K:1860:VAL:CG1	2.46	0.46
2:K:1903:VAL:HG11	2:K:1943:LEU:HD21	1.98	0.46
2:K:596:ARG:HD3	2:K:1119:ARG:HG3	1.98	0.46
2:L:1180:VAL:CG1	2:L:1188:GLN:H	2.28	0.46
2:L:1553:GLN:HB3	2:L:1554:PRO:HD2	1.97	0.46
2:L:1977:ARG:CD	2:L:1978:LYS:HG3	2.46	0.46
2:L:865:ILE:HG22	2:L:867:LYS:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.35	0.46
1:A:1160:VAL:HG11	1:A:1337:PRO:HB3	1.97	0.46
1:A:457:THR:HG22	1:A:464:GLN:HA	1.97	0.46
1:A:498:THR:HG21	1:A:858:LEU:O	2.16	0.46
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.71	0.46
1:B:1131:GLU:HG2	1:B:1138:TYR:CE2	2.50	0.46
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.80	0.46
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.16	0.46
1:C:450:TYR:CD2	1:C:450:TYR:C	2.89	0.46
1:C:502:ALA:O	1:C:929:ARG:HD3	2.15	0.46
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	1.98	0.46
1:D:1674:ILE:HG22	1:D:1675:ASN:OD1	2.16	0.46
1:E:1078:ILE:HA	1:E:1162:GLY:HA2	1.98	0.46
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.15	0.46
1:E:1187:THR:OG1	1:E:1258:MET:HG3	2.16	0.46
1:E:401:SER:O	1:E:405:TRP:CD1	2.69	0.46
1:F:1142:LEU:HD12	1:F:1142:LEU:H	1.79	0.46
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.78	0.46
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.46	0.46
1:F:746:PHE:CG	3:F:1901:NAP:H4D	2.51	0.46
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.16	0.46
2:G:726:GLN:O	2:G:730:ILE:HG12	2.15	0.46
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.69	0.46
2:H:1047:LEU:CD1	2:H:1047:LEU:H	2.28	0.46
2:H:1104:ASP:N	2:H:1104:ASP:OD1	2.49	0.46
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.98	0.46
2:H:655:GLY:HA3	2:H:1272:ALA:HB2	1.98	0.46
2:H:1311:GLY:HA3	2:H:1397:THR:HB	1.98	0.46
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.98	0.46
2:H:460:ILE:CD1	2:H:487:ILE:HD11	2.46	0.46
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.15	0.46
2:I:1555:VAL:O	2:I:1555:VAL:HG12	2.14	0.46
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.27	0.46
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.46	0.46
2:I:382:LEU:HG	2:I:390:VAL:HB	1.98	0.46
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.45	0.46
2:J:1104:ASP:N	2:J:1104:ASP:OD1	2.48	0.46
2:J:1305:LEU:CD1	2:J:1305:LEU:H	2.26	0.46
2:J:1344:ALA:N	2:J:1389:LEU:O	2.41	0.46
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.31	0.46
2:J:1587:TYR:O	2:J:1588:ASN:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LEU:HD12	2:J:227:ILE:CD1	2.40	0.46
2:J:52:PHE:HB2	2:J:82:PHE:CE2	2.50	0.46
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.45	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:606:ALA:HB2	2:J:811:MET:CG	2.46	0.46
2:K:1741:ASN:ND2	2:K:1798:GLY:HA3	2.31	0.46
2:K:2009:PHE:CD2	2:K:2009:PHE:C	2.89	0.46
2:L:1175:MET:HE1	2:L:1234:ILE:HG21	1.97	0.46
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.84	0.46
2:L:1342:PHE:HE2	2:L:1391:VAL:HB	1.81	0.46
2:L:1644:LEU:HB3	2:L:1645:PRO:CD	2.45	0.46
2:L:1555:VAL:HG21	2:L:1824:LYS:HA	1.97	0.46
2:L:1948:MET:HG2	2:L:1993:PHE:CZ	2.51	0.46
2:L:726:GLN:O	2:L:730:ILE:HG12	2.16	0.46
2:L:827:GLN:H	2:L:827:GLN:CD	2.19	0.46
2:L:950:TRP:CE2	2:L:956:LYS:HG3	2.51	0.46
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.16	0.46
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.98	0.46
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.49	0.46
1:A:540:LYS:HG3	1:A:608:LYS:N	2.31	0.46
1:A:544:ASP:O	1:A:548:VAL:HG23	2.15	0.46
1:B:662:ALA:HA	1:B:694:TYR:CZ	2.50	0.46
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.50	0.46
1:C:1691:ILE:HG22	1:C:1695:VAL:HG23	1.97	0.46
1:C:673:LEU:HD21	1:C:884:MET:CE	2.46	0.46
1:C:687:PHE:HD2	1:C:687:PHE:C	2.19	0.46
1:C:965:TYR:CE1	1:C:1669:PHE:CD1	3.04	0.46
1:D:746:PHE:CD2	3:D:1901:NAP:H4D	2.51	0.46
1:D:852:LEU:O	1:D:852:LEU:HD23	2.16	0.46
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.81	0.46
1:F:1078:ILE:HA	1:F:1162:GLY:HA2	1.97	0.46
1:F:661:GLY:O	1:F:667:ALA:HB2	2.15	0.46
1:F:916:THR:HA	1:F:919:ARG:HB2	1.98	0.46
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.51	0.46
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.98	0.46
2:G:1473:PHE:HE1	2:G:1513:VAL:HG21	1.81	0.46
2:G:1587:TYR:O	2:G:1588:ASN:C	2.55	0.46
2:G:1194:ARG:NH2	2:G:1601:ASN:CG	2.70	0.46
2:G:1738:VAL:HA	2:G:1800:LEU:HD13	1.97	0.46
2:G:520:GLY:C	2:G:522:SER:H	2.19	0.46
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1175:MET:O	2:H:1192:LEU:HD12	2.16	0.46
2:H:1142:ILE:HG13	2:H:1209:PRO:HG2	1.97	0.46
2:H:152:LYS:HA	2:H:153:PRO:HD3	1.81	0.46
2:H:545:ILE:HG22	2:H:555:LYS:HD3	1.98	0.46
2:H:676:LEU:C	2:H:676:LEU:HD13	2.36	0.46
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.17	0.46
2:I:1948:MET:HG2	2:I:1993:PHE:CZ	2.50	0.46
2:I:200:LEU:H	2:I:200:LEU:HD23	1.81	0.46
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.76	0.46
2:I:756:ASP:CA	2:I:843:TRP:HH2	2.28	0.46
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.46	0.46
2:J:1248:GLU:OE2	2:J:1250:ARG:NE	2.45	0.46
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.50	0.46
2:J:460:ILE:CD1	2:J:487:ILE:HD11	2.45	0.46
2:J:611:THR:HG21	2:J:817:MET:CE	2.46	0.46
2:J:791:TYR:CD2	2:J:796:TRP:CG	3.03	0.46
2:J:929:MET:CE	2:J:934:VAL:HA	2.46	0.46
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.46	0.46
2:K:1872:GLU:HA	2:K:1872:GLU:OE1	2.13	0.46
2:K:196:PHE:N	2:K:196:PHE:CD2	2.84	0.46
2:K:207:LEU:HD22	2:K:309:LYS:HG3	1.98	0.46
2:K:870:THR:HG21	2:K:1064:THR:O	2.16	0.46
2:K:932:ALA:O	2:K:935:VAL:HG13	2.16	0.46
2:L:141:TYR:OH	2:L:267:THR:HG23	2.16	0.46
2:L:1734:ILE:O	2:L:1738:VAL:HG23	2.15	0.46
2:L:1946:LEU:HD22	2:L:1951:ILE:HG12	1.97	0.46
2:L:196:PHE:HD2	2:L:196:PHE:N	2.14	0.46
2:L:200:LEU:H	2:L:200:LEU:HD23	1.80	0.46
2:L:613:VAL:HG13	2:L:614:PRO:CD	2.46	0.46
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.51	0.45
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.52	0.45
1:A:20:TYR:CE1	2:G:2018:ARG:NH2	2.84	0.45
1:B:1083:PRO:HD2	1:B:1084:GLU:OE2	2.16	0.45
1:B:450:TYR:CD2	1:B:450:TYR:C	2.90	0.45
1:B:457:THR:HG22	1:B:464:GLN:HA	1.97	0.45
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.97	0.45
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.46	0.45
1:C:1160:VAL:HG11	1:C:1337:PRO:HB3	1.98	0.45
1:C:493:PRO:HD2	1:C:517:ARG:O	2.16	0.45
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.98	0.45
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.77	0.45
1:C:375:TRP:CD2	1:D:375:TRP:HB3	2.51	0.45
1:E:1542:LEU:HD22	1:E:1547:ARG:HD3	1.97	0.45
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.59	0.45
1:F:1592:ALA:O	1:F:1593:ASP:C	2.54	0.45
1:A:720:GLN:HG3	1:F:378:GLU:OE2	2.15	0.45
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.51	0.45
1:F:612:ILE:HG22	1:F:628:TYR:CD2	2.52	0.45
2:G:48:LEU:HD11	2:G:101:VAL:HG11	1.97	0.45
2:G:870:THR:HG21	2:G:1064:THR:O	2.16	0.45
2:G:173:PHE:CE2	2:G:516:PHE:HB2	2.51	0.45
2:G:459:LYS:HA	2:G:485:ASP:CG	2.36	0.45
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.52	0.45
2:H:48:LEU:HD11	2:H:101:VAL:HG11	1.97	0.45
2:H:1551:ILE:HG22	2:H:1552:GLU:N	2.30	0.45
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.46	0.45
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.46	0.45
2:H:719:GLY:O	2:H:755:GLU:HG3	2.16	0.45
2:H:791:TYR:CD2	2:H:796:TRP:CG	3.04	0.45
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.46	0.45
2:I:1047:LEU:N	2:I:1047:LEU:HD12	2.30	0.45
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.50	0.45
2:I:1350:ILE:HD13	2:I:1610:MET:SD	2.56	0.45
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.45
2:J:1142:ILE:HG13	2:J:1209:PRO:HG2	1.98	0.45
2:J:743:TRP:CD1	2:J:761:ILE:HD11	2.51	0.45
2:J:856:THR:HG23	2:J:866:HIS:NE2	2.31	0.45
2:K:1346:MET:HG3	2:K:1380:TYR:CD1	2.51	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.43	0.45
2:K:182:TYR:CD1	2:K:183:PHE:N	2.84	0.45
1:E:60:THR:HG23	2:K:1922:VAL:HG13	1.99	0.45
2:K:76:VAL:HG11	2:K:109:PHE:HD1	1.81	0.45
2:K:789:TYR:O	2:K:792:LEU:HB3	2.16	0.45
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.51	0.45
2:L:155:ASP:N	2:L:155:ASP:OD1	2.49	0.45
2:L:173:PHE:CE2	2:L:516:PHE:HB2	2.51	0.45
2:L:791:TYR:CD2	2:L:796:TRP:CG	3.04	0.45
1:A:1011:ARG:HD2	1:A:1011:ARG:O	2.16	0.45
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.83	0.45
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.51	0.45
1:A:846:TRP:HZ2	1:A:856:ASN:O	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:ARG:HE	1:A:869:ARG:HB2	1.58	0.45
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.44	0.45
1:B:1004:PRO:HD3	1:B:1572:TRP:HH2	1.80	0.45
1:B:1495:ARG:O	1:B:1496:ARG:HB3	2.15	0.45
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.51	0.45
1:B:565:GLN:HG2	1:B:565:GLN:O	2.15	0.45
1:B:876:MET:HE3	1:B:876:MET:O	2.16	0.45
1:C:1097:LEU:HD12	1:F:1241:LEU:HD23	1.98	0.45
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.45
1:C:1338:GLY:C	1:C:1340:MET:H	2.19	0.45
1:C:1414:PRO:HG2	1:F:1473:HIS:NE2	2.31	0.45
1:C:746:PHE:CD1	1:C:800:PRO:HG3	2.51	0.45
1:C:914:LEU:CD1	1:C:918:LEU:HD12	2.47	0.45
1:D:1338:GLY:C	1:D:1340:MET:H	2.19	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.37	0.45
1:E:17:LEU:HD23	2:K:2043:VAL:CG2	2.46	0.45
1:E:974:ASP:O	1:E:979:PRO:HD3	2.16	0.45
1:F:740:LEU:HD12	1:F:781:ILE:HD13	1.98	0.45
2:G:1031:VAL:HA	2:G:1032:PRO:HD3	1.64	0.45
2:G:1404:VAL:O	2:G:1445:THR:HA	2.16	0.45
2:G:1602:LEU:HB3	2:G:1604:GLY:H	1.81	0.45
2:H:1344:ALA:N	2:H:1389:LEU:O	2.42	0.45
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	2.16	0.45
2:H:1961:SER:O	2:H:1965:VAL:HG22	2.16	0.45
2:H:1969:LEU:HA	2:H:1972:ILE:HD12	1.99	0.45
2:H:1948:MET:HG2	2:H:1993:PHE:CZ	2.52	0.45
2:H:2009:PHE:O	2:H:2009:PHE:HD2	1.99	0.45
4:H:2101:FMN:N1	4:H:2101:FMN:O2'	2.44	0.45
2:H:117:ASN:CA	2:H:561:ARG:HG3	2.34	0.45
2:I:186:LEU:CG	2:I:256:VAL:HG22	2.45	0.45
2:I:1981:GLU:O	2:I:1984:PRO:HG3	2.16	0.45
2:I:613:VAL:HG13	2:I:614:PRO:CD	2.47	0.45
2:I:685:VAL:HG23	2:I:1186:ARG:NH1	2.31	0.45
2:I:854:VAL:HA	2:I:867:LYS:O	2.16	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.74	0.45
2:J:113:PHE:CD1	2:J:113:PHE:N	2.84	0.45
2:J:123:ALA:O	2:J:126:VAL:HG23	2.17	0.45
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.46	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.28	0.45
2:J:1969:LEU:HA	2:J:1972:ILE:CD1	2.46	0.45
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:CB	2:J:610:PRO:HD3	2.45	0.45
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.16	0.45
2:K:129:ILE:CG2	2:K:132:LYS:HD2	2.46	0.45
2:K:1769:VAL:HG13	2:K:1774:SER:O	2.15	0.45
2:K:265:CYS:SG	2:K:275:LEU:HB2	2.57	0.45
2:K:290:VAL:HG11	2:K:315:LEU:CD1	2.46	0.45
2:K:350:MET:HG3	2:K:435:ILE:CB	2.45	0.45
2:K:394:PRO:HD2	2:K:397:SER:OG	2.16	0.45
2:K:76:VAL:O	2:K:80:ILE:HG13	2.16	0.45
2:K:894:GLU:CD	2:K:897:LYS:HD3	2.35	0.45
2:L:1410:GLY:HA2	2:L:1437:GLY:H	1.82	0.45
2:L:1977:ARG:HD3	2:L:1978:LYS:HG3	1.98	0.45
2:L:223:LYS:HB3	2:L:242:TYR:CZ	2.51	0.45
2:L:57:PRO:HB2	2:L:65:GLN:HE22	1.81	0.45
2:L:708:THR:HB	2:L:709:LEU:HD23	1.97	0.45
2:L:907:ASN:HA	2:L:913:VAL:HG13	1.97	0.45
1:B:626:TRP:CE3	1:B:898:PHE:HB2	2.51	0.45
1:C:1169:ASP:OD2	1:C:1171:ARG:HB2	2.17	0.45
1:C:1183:VAL:HG11	1:C:1187:THR:CG2	2.46	0.45
1:C:1363:MET:HB2	1:C:1363:MET:HE2	1.79	0.45
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.55	0.45
1:D:493:PRO:HD2	1:D:517:ARG:O	2.16	0.45
1:D:661:GLY:O	1:D:667:ALA:HB2	2.16	0.45
1:D:667:ALA:O	1:D:671:GLN:HG3	2.15	0.45
1:D:999:LEU:HD23	1:D:999:LEU:HA	1.75	0.45
1:E:1011:ARG:NH1	1:E:1012:TRP:HA	2.32	0.45
2:G:1180:VAL:CG1	2:G:1188:GLN:H	2.30	0.45
2:G:202:THR:HA	2:G:228:LEU:HD11	1.98	0.45
2:G:578:PRO:HG3	2:G:792:LEU:O	2.16	0.45
2:G:76:VAL:HG11	2:G:109:PHE:CD1	2.50	0.45
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.37	0.45
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.72	0.45
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.31	0.45
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.46	0.45
2:H:1977:ARG:HD3	2:H:1978:LYS:HG3	1.98	0.45
2:H:204:ILE:CG2	2:H:312:VAL:HG11	2.45	0.45
2:H:747:ARG:HH11	2:H:780:SER:CB	2.25	0.45
2:H:737:PHE:O	2:H:773:ASN:HB3	2.16	0.45
2:H:929:MET:CE	2:H:934:VAL:HA	2.46	0.45
2:I:1709:TYR:HE2	2:I:1716:LYS:HE2	1.81	0.45
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:821:GLU:CD	2:I:1083:ILE:HG13	2.37	0.45
2:J:912:LYS:HG2	2:J:1029:PRO:C	2.37	0.45
2:J:1311:GLY:HA3	2:J:1397:THR:HB	1.97	0.45
2:J:1656:VAL:O	2:J:1656:VAL:HG22	2.17	0.45
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.46	0.45
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.47	0.45
1:D:23:ALA:HA	2:J:2007:SER:O	2.17	0.45
2:J:846:THR:HG22	2:J:855:ILE:C	2.36	0.45
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.52	0.45
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.46	0.45
2:K:459:LYS:O	2:K:461:PRO:HD3	2.16	0.45
2:K:785:SER:HB3	2:K:1090:ILE:HG23	1.98	0.45
2:K:865:ILE:HG22	2:K:867:LYS:HG3	1.98	0.45
2:K:929:MET:CE	2:K:934:VAL:HA	2.46	0.45
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.17	0.45
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.30	0.45
2:L:2009:PHE:C	2:L:2009:PHE:HD2	2.19	0.45
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.45
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.46	0.45
1:A:46:GLU:HB3	1:A:80:CYS:HA	1.99	0.45
1:A:907:PHE:CE1	1:F:579:MET:HE1	2.51	0.45
1:B:759:ILE:HD12	1:B:759:ILE:N	2.31	0.45
1:C:1084:GLU:CD	1:C:1084:GLU:H	2.19	0.45
1:C:414:TYR:CE2	1:C:418:ILE:CD1	2.99	0.45
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.46	0.45
1:C:881:LEU:HA	1:C:884:MET:CG	2.32	0.45
1:C:914:LEU:HD11	1:C:918:LEU:CD1	2.46	0.45
1:D:1708:ASN:HD21	1:D:1712:LYS:NZ	2.15	0.45
1:E:472:GLN:HA	1:E:472:GLN:HE21	1.81	0.45
1:E:613:PRO:C	1:E:615:LEU:N	2.69	0.45
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.81	0.45
1:E:853:MET:HG2	1:E:856:ASN:ND2	2.29	0.45
1:E:893:GLN:OE1	2:H:1751:GLY:HA2	2.16	0.45
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.74	0.45
1:F:334:ALA:O	1:F:338:GLN:HG3	2.16	0.45
1:F:88:ILE:HG21	2:L:1821:MET:HE2	1.98	0.45
2:G:1644:LEU:HB3	2:G:1645:PRO:CD	2.46	0.45
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.99	0.45
2:G:204:ILE:HG21	2:G:312:VAL:HG21	1.98	0.45
2:G:676:LEU:C	2:G:676:LEU:HD13	2.37	0.45
2:G:747:ARG:NH1	2:G:780:SER:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:76:VAL:O	2:G:80:ILE:HG13	2.16	0.45
2:G:883:ILE:HG22	2:G:884:PHE:N	2.30	0.45
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.36	0.45
2:H:44:GLN:HG3	2:H:101:VAL:CG2	2.46	0.45
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.52	0.45
2:H:685:VAL:HG13	2:H:686:PRO:HD2	1.98	0.45
2:H:882:LYS:HD3	2:H:898:ARG:CZ	2.47	0.45
2:H:894:GLU:CD	2:H:897:LYS:HD3	2.36	0.45
2:I:2021:LEU:HD22	2:I:2025:ILE:HD11	1.98	0.45
2:I:699:ILE:H	2:I:699:ILE:CD1	2.26	0.45
2:I:617:PHE:HE1	2:I:819:ALA:HB3	1.82	0.45
2:I:846:THR:HG22	2:I:855:ILE:C	2.37	0.45
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.99	0.45
2:J:1551:ILE:HG22	2:J:1552:GLU:N	2.31	0.45
2:J:1894:THR:HB	2:J:1954:GLN:OE1	2.16	0.45
2:J:270:ARG:HG3	2:J:274:GLU:CD	2.36	0.45
2:J:204:ILE:CG2	2:J:312:VAL:HG11	2.46	0.45
2:J:534:GLY:O	2:J:571:ASP:HA	2.17	0.45
2:K:1047:LEU:N	2:K:1047:LEU:HD12	2.31	0.45
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.46	0.45
2:K:1324:PHE:CA	2:K:1583:VAL:HG11	2.47	0.45
2:L:1293:TRP:HE1	2:L:1586:ASP:HA	1.81	0.45
2:L:1709:TYR:HE2	2:L:1716:LYS:HE2	1.81	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.29	0.45
2:L:207:LEU:HD22	2:L:309:LYS:HG3	1.99	0.45
2:L:440:HIS:NE2	2:L:499:VAL:HG23	2.32	0.45
2:L:468:PRO:HA	2:L:479:ARG:HD3	1.99	0.45
2:L:746:GLY:O	2:L:843:TRP:NE1	2.49	0.45
2:L:857:VAL:HG13	2:L:876:TRP:CD1	2.50	0.45
1:A:636:TYR:CE1	1:A:883:LEU:HD23	2.51	0.45
1:B:1337:PRO:HA	1:B:1340:MET:CG	2.46	0.45
1:B:329:THR:O	1:B:332:GLN:HB2	2.16	0.45
1:B:40:ARG:NH2	1:B:72:THR:CG2	2.80	0.45
1:C:963:LEU:HD23	1:C:1023:GLU:HB3	1.98	0.45
1:C:1335:ARG:HH11	1:C:1339:GLU:HG2	1.81	0.45
1:D:498:THR:CG2	1:D:858:LEU:HA	2.41	0.45
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.98	0.45
1:E:421:ARG:NH2	1:E:1613:LYS:CG	2.79	0.45
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.52	0.45
1:F:767:HIS:NE2	1:F:771:LEU:HD22	2.32	0.45
2:G:1053:ILE:CD1	2:G:1061:VAL:HG13	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1655:HIS:HE1	2:G:1657:GLY:O	1.99	0.45
2:G:1894:THR:HB	2:G:1954:GLN:OE1	2.16	0.45
1:A:11:TYR:CD1	2:G:2027:LYS:HG2	2.50	0.45
2:G:57:PRO:HB2	2:G:65:GLN:HE22	1.81	0.45
2:G:685:VAL:CG1	2:G:687:ILE:HG13	2.41	0.45
2:G:76:VAL:HG11	2:G:109:PHE:HD1	1.82	0.45
2:G:856:THR:HG23	2:G:866:HIS:NE2	2.32	0.45
2:G:915:PHE:O	2:G:915:PHE:CD2	2.69	0.45
2:H:1903:VAL:HG11	2:H:1943:LEU:HD21	1.99	0.45
2:H:1521:GLU:OE2	2:H:2028:THR:HG21	2.17	0.45
2:H:202:THR:O	2:H:206:GLU:HG3	2.16	0.45
2:H:43:PHE:CZ	2:I:42:HIS:CE1	3.05	0.45
2:H:31:LEU:HB2	2:H:72:VAL:HG22	1.98	0.45
2:H:76:VAL:HG11	2:H:109:PHE:CD1	2.51	0.45
2:I:1749:PHE:CD2	2:I:1758:ARG:HB3	2.51	0.45
2:I:290:VAL:CG1	2:I:314:LEU:HD23	2.46	0.45
2:I:342:ASN:HB3	2:I:406:ARG:HD3	1.99	0.45
2:I:585:VAL:O	2:I:585:VAL:HG12	2.17	0.45
2:J:1346:MET:CE	2:J:1617:ARG:HH21	2.30	0.45
4:J:2101:FMN:N1	4:J:2101:FMN:O2'	2.44	0.45
2:J:315:LEU:HA	2:J:318:ILE:HD12	1.97	0.45
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.73	0.45
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.81	0.45
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.52	0.45
2:K:1655:HIS:HE1	2:K:1657:GLY:O	1.99	0.45
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.52	0.45
2:K:790:PRO:HA	2:K:795:SER:OG	2.17	0.45
2:L:1161:MET:HE1	2:L:1193:LYS:HG2	1.99	0.45
2:L:1234:ILE:HG22	2:L:1242:ILE:HG22	1.98	0.45
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.27	0.45
2:L:153:PRO:HB3	2:L:270:ARG:NH1	2.31	0.45
2:L:381:SER:OG	2:L:392:THR:HG23	2.17	0.45
2:L:930:THR:O	2:L:934:VAL:HG23	2.16	0.45
2:L:942:MET:O	2:L:951:ILE:HG13	2.16	0.45
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.45
1:A:1050:TRP:CE3	1:A:1050:TRP:HA	2.52	0.45
1:A:997:THR:HG23	1:A:1361:VAL:HG22	1.98	0.45
1:A:1473:HIS:NE2	1:E:1414:PRO:HG2	2.31	0.45
1:A:1514:ILE:H	1:A:1514:ILE:HG13	1.36	0.45
1:A:620:LYS:HE3	1:A:626:TRP:CZ2	2.52	0.45
1:A:857:ASN:HA	1:A:860:ALA:HB2	1.98	0.45

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1009:ASN:HA	2:K:1009:ASN:HD22	1.56	0.45
2:K:200:LEU:H	2:K:200:LEU:HD23	1.82	0.45
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.52	0.45
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.42	0.45
2:L:1945:ILE:HG22	2:L:1946:LEU:N	2.32	0.45
2:L:462:ALA:HB3	2:L:483:ASP:HA	1.98	0.45
2:L:917:ARG:NH1	2:L:917:ARG:CG	2.44	0.45
1:A:1169:ASP:OD2	1:A:1171:ARG:HB2	2.17	0.45
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.98	0.45
1:A:1491:ASN:ND2	1:A:1491:ASN:N	2.65	0.45
1:A:22:PHE:HE2	2:G:2017:PHE:CB	2.29	0.45
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.79	0.45
1:A:506:ILE:HD13	1:A:922:ILE:HG22	1.99	0.45
1:A:549:TYR:O	1:A:553:ARG:HB3	2.17	0.45
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.15	0.45
1:A:570:TYR:CD2	1:A:574:ILE:HD11	2.49	0.45
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.81	0.45
1:B:1129:ILE:HA	1:B:1139:THR:O	2.16	0.45
1:B:1440:TYR:O	1:B:1444:GLN:HB2	2.16	0.45
1:B:1463:GLU:O	1:B:1467:LEU:HB2	2.16	0.45
1:B:1484:GLU:O	1:B:1487:THR:HB	2.17	0.45
1:B:1562:THR:HB	1:B:1572:TRP:CZ3	2.52	0.45
1:B:1652:GLU:O	1:B:1656:VAL:HG23	2.16	0.45
1:B:427:ARG:HH12	1:B:492:ILE:CG2	2.07	0.45
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.81	0.45
1:B:79:LEU:HD12	1:B:88:ILE:HD13	1.99	0.45
1:C:1473:HIS:NE2	1:F:1414:PRO:HG2	2.32	0.45
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.41	0.45
1:C:79:LEU:HD12	1:C:88:ILE:HD13	1.98	0.45
1:C:898:PHE:HD2	1:C:899:ALA:N	2.15	0.45
1:D:746:PHE:CG	3:D:1901:NAP:H4D	2.51	0.45
1:D:526:MET:CE	1:D:615:LEU:HG	2.47	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.32	0.45
1:E:330:LYS:HG3	1:E:333:ARG:HH12	1.79	0.45
1:E:741:ASP:CG	1:E:793:ARG:HH11	2.19	0.45
1:E:852:LEU:O	1:E:852:LEU:HD23	2.17	0.45
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.14	0.45
2:G:1002:GLU:C	2:G:1004:SER:H	2.19	0.45
2:G:1194:ARG:CG	2:G:1194:ARG:NH1	2.51	0.45
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.17	0.45
2:G:1538:ASN:HB3	2:G:1541:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.17	0.45
2:G:186:LEU:HD21	2:G:256:VAL:HG22	1.97	0.45
2:G:1969:LEU:HA	2:G:1972:ILE:CD1	2.47	0.45
2:G:202:THR:O	2:G:206:GLU:HG3	2.16	0.45
2:G:250:PHE:O	2:G:315:LEU:HD23	2.17	0.45
2:G:459:LYS:O	2:G:461:PRO:HD3	2.16	0.45
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.17	0.45
2:G:690:LEU:HB2	2:G:711:ILE:HG21	1.99	0.45
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.70	0.45
2:G:871:ARG:HB2	2:G:909:ASP:HB2	1.98	0.45
2:H:781:GLY:CA	2:H:1071:VAL:HG13	2.46	0.45
2:H:1350:ILE:HG22	2:H:1429:VAL:HG11	1.97	0.45
2:H:1351:VAL:CG1	2:H:1352:VAL:N	2.79	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
2:H:1985:GLN:C	2:H:1987:VAL:N	2.67	0.45
2:H:2009:PHE:HD2	2:H:2009:PHE:C	2.19	0.45
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.47	0.45
2:H:24:LEU:CD1	2:H:37:VAL:HG21	2.45	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:H:797:SER:O	2:H:802:TYR:HB2	2.16	0.45
2:H:907:ASN:HA	2:H:913:VAL:HG13	1.99	0.45
2:I:1293:TRP:HZ3	2:I:1370:LEU:HD21	1.81	0.45
2:I:2058:VAL:O	2:I:2062:THR:HB	2.17	0.45
2:I:785:SER:HB3	2:I:1090:ILE:HG23	1.99	0.45
2:I:856:THR:HG23	2:I:866:HIS:NE2	2.31	0.45
2:I:871:ARG:HB2	2:I:909:ASP:HB2	1.98	0.45
1:D:30:GLU:CB	2:J:2045:ALA:HB1	2.41	0.45
2:J:310:ARG:HH12	2:J:459:LYS:H	1.65	0.45
2:J:358:ARG:HB2	2:J:389:PHE:CE2	2.51	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.16	0.45
2:K:129:ILE:HG21	2:K:132:LYS:HD2	1.98	0.45
2:K:193:TYR:HD1	2:K:263:ILE:HD13	1.79	0.45
2:K:276:LEU:O	2:K:467:ILE:CD1	2.64	0.45
2:K:472:THR:HB	2:K:493:MET:HB3	1.99	0.45
2:K:931:TYR:CZ	2:K:1008:ILE:HA	2.52	0.45
2:L:45:ALA:HB2	2:L:101:VAL:HG22	1.99	0.45
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.52	0.45
2:L:906:LEU:HD22	2:L:906:LEU:HA	1.81	0.45
1:A:1507:LEU:HA	1:A:1507:LEU:HD23	1.84	0.45
1:A:448:MET:HA	1:A:448:MET:HE3	1.99	0.45
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.50	0.45
1:B:1121:ARG:NH1	1:D:1153:ALA:O	2.49	0.45
1:B:40:ARG:HH21	1:B:72:THR:CG2	2.30	0.45
1:B:440:SER:HB3	1:B:481:LEU:CD2	2.39	0.45
1:B:859:VAL:O	1:B:859:VAL:HG12	2.16	0.45
1:D:1102:ILE:HD13	1:D:1106:LEU:CD2	2.47	0.45
1:D:1495:ARG:O	1:D:1496:ARG:HB3	2.16	0.45
1:D:413:MET:O	1:D:416:ASP:HB2	2.17	0.45
1:E:1171:ARG:HD3	1:E:1177:GLU:OE1	2.17	0.45
1:E:1219:GLY:HA2	1:E:1272:PRO:HD2	1.98	0.45
1:A:1696:PHE:HB3	1:E:1402:THR:HG22	1.99	0.45
1:E:844:ILE:N	1:E:844:ILE:HD12	2.32	0.45
1:A:576:ALA:HB3	1:F:541:VAL:HG22	1.99	0.45
1:F:79:LEU:HD12	1:F:88:ILE:HD13	1.99	0.45
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.11	0.45
2:G:1175:MET:CE	2:G:1234:ILE:HG21	2.47	0.45
2:G:1238:GLY:O	2:G:1239:ASP:HB2	2.17	0.45
2:G:1515:LEU:CB	2:G:1525:VAL:HG21	2.47	0.45
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.52	0.45
2:G:1881:TYR:CZ	2:G:2009:PHE:HE1	2.35	0.45
2:G:391:VAL:HG12	2:G:398:LEU:HD21	1.99	0.45
2:G:60:THR:HG22	2:G:62:GLU:H	1.81	0.45
2:G:330:SER:H	2:H:1331:THR:HG22	1.82	0.45
2:H:155:ASP:OD1	2:H:155:ASP:N	2.49	0.45
2:H:207:LEU:HD22	2:H:309:LYS:HG3	1.99	0.45
2:H:382:LEU:HG	2:H:390:VAL:HB	1.98	0.45
2:H:489:GLU:O	2:H:492:ARG:HG2	2.17	0.45
2:H:595:SER:HB3	2:H:602:PRO:HD3	1.99	0.45
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.17	0.45
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	2.17	0.45
2:I:1195:LEU:CD2	2:I:1595:VAL:HG12	2.47	0.45
2:I:1656:VAL:O	2:I:1656:VAL:HG22	2.17	0.45
2:I:1721:ARG:NH1	2:I:1854:GLU:OE2	2.49	0.45
2:I:1985:GLN:C	2:I:1987:VAL:N	2.69	0.45
2:I:372:LEU:CD1	2:I:397:SER:HB2	2.47	0.45
2:I:117:ASN:OD1	2:I:561:ARG:HB2	2.16	0.45
2:I:608:MET:HA	4:I:2101:FMN:C5A	2.46	0.45
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.51	0.45
2:I:76:VAL:HG11	2:I:109:PHE:HD1	1.81	0.45
2:I:931:TYR:CZ	2:I:1008:ILE:HA	2.52	0.45
2:J:1019:LEU:HA	2:J:1022:ARG:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1289:TYR:CD2	2:J:1370:LEU:HD23	2.51	0.45
2:J:2052:LYS:H	2:J:2052:LYS:HG2	1.44	0.45
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.50	0.45
2:K:481:LEU:C	2:K:483:ASP:H	2.19	0.45
2:L:1229:VAL:CG1	2:L:1230:LYS:N	2.79	0.45
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.28	0.45
2:L:1517:LEU:CD2	2:L:1523:ILE:HD11	2.47	0.45
2:L:193:TYR:HD1	2:L:263:ILE:HD13	1.78	0.45
2:L:382:LEU:HG	2:L:390:VAL:HB	1.97	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.73	0.45
2:L:718:PRO:HG2	2:L:741:LEU:HD11	1.98	0.45
2:L:762:LEU:HD23	2:L:805:MET:HE1	1.99	0.45
1:A:1199:LEU:HD23	1:A:1199:LEU:O	2.17	0.45
1:A:539:THR:HA	1:A:542:GLN:HE21	1.82	0.45
1:B:1154:LEU:HD21	1:D:1118:GLU:OE2	2.17	0.45
1:B:543:ASN:O	1:B:546:ARG:HB2	2.17	0.45
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.47	0.45
1:C:1562:THR:HB	1:C:1572:TRP:CZ3	2.52	0.45
1:C:1584:GLY:HA2	1:C:1617:ILE:HD12	1.99	0.45
1:C:443:LEU:H	1:C:443:LEU:HD12	1.82	0.45
1:D:1078:ILE:HA	1:D:1162:GLY:HA2	1.98	0.45
1:D:1199:LEU:HD23	1:D:1199:LEU:O	2.17	0.45
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.81	0.45
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.98	0.45
1:E:1022:LEU:HD13	1:E:1022:LEU:O	2.17	0.45
1:E:1395:ALA:HA	1:E:1396:PRO:HD3	1.81	0.45
1:E:1495:ARG:O	1:E:1496:ARG:HB3	2.16	0.45
1:E:452:ILE:CD1	1:E:467:LYS:HA	2.47	0.45
1:F:1265:LEU:O	1:F:1266:LEU:HD23	2.17	0.45
1:F:1419:LYS:O	1:F:1422:ARG:HB2	2.17	0.45
1:F:1565:PRO:O	1:F:1566:LYS:C	2.55	0.45
2:G:1231:THR:HG23	2:G:1595:VAL:CG2	2.41	0.45
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.45
2:G:196:PHE:HD2	2:G:196:PHE:N	2.14	0.45
2:G:1985:GLN:C	2:G:1987:VAL:N	2.67	0.45
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.51	0.45
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.51	0.45
2:G:938:MET:O	2:G:942:MET:HG3	2.17	0.45
2:H:248:VAL:O	2:H:252:LEU:HB2	2.17	0.45
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.47	0.45
2:I:1194:ARG:NH1	2:I:1194:ARG:CG	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:251:PRO:CG	2:I:316:PHE:HA	2.44	0.45
2:I:448:HIS:CD2	2:I:491:VAL:CG1	2.98	0.45
2:I:44:GLN:O	2:I:48:LEU:HG	2.16	0.45
2:I:747:ARG:NH1	2:I:780:SER:O	2.50	0.45
2:I:594:MET:HB3	2:I:808:ASP:O	2.16	0.45
2:I:604:MET:CE	2:I:811:MET:HB2	2.46	0.45
2:I:52:PHE:HB2	2:I:82:PHE:CE2	2.51	0.45
2:J:226:ASP:OD2	2:J:229:GLN:HB2	2.17	0.45
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.98	0.45
2:J:617:PHE:CD1	2:J:822:ALA:CA	3.00	0.45
2:J:785:SER:O	2:J:789:TYR:HB2	2.17	0.45
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.16	0.45
2:J:376:ARG:NH2	2:K:1340:LYS:HG3	2.32	0.45
2:K:1342:PHE:HE2	2:K:1391:VAL:HB	1.82	0.45
2:K:1722:ALA:HB1	2:K:1812:LEU:HD21	1.99	0.45
2:L:1384:PRO:HB3	2:L:1829:ARG:HH12	1.82	0.45
2:L:44:GLN:O	2:L:48:LEU:HG	2.17	0.45
2:L:962:PHE:O	2:L:965:ARG:HB3	2.16	0.45
1:A:1654:TYR:CZ	1:A:1658:VAL:HG21	2.52	0.45
1:A:21:GLN:HB3	1:A:21:GLN:HE21	1.57	0.45
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.44	0.45
1:B:1011:ARG:HH11	1:B:1012:TRP:HA	1.82	0.45
1:B:1296:GLN:HG2	1:D:1296:GLN:HE21	1.82	0.45
1:B:1686:PRO:HB2	1:B:1713:PHE:CE1	2.52	0.45
1:B:20:TYR:CZ	2:H:2062:THR:HG23	2.52	0.45
1:B:455:CYS:HA	1:B:456:PRO:HD3	1.83	0.45
1:B:661:GLY:O	1:B:667:ALA:HB2	2.16	0.45
1:B:835:ASN:OD1	1:B:835:ASN:N	2.50	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
1:D:1129:ILE:HA	1:D:1139:THR:O	2.16	0.45
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.96	0.45
1:E:1491:ASN:ND2	1:E:1491:ASN:H	2.15	0.45
1:F:1306:GLY:O	1:F:1357:CYS:HB2	2.17	0.45
1:F:50:SER:HB2	1:F:52:THR:HG23	1.99	0.45
1:F:716:GLN:NE2	1:F:747:ALA:HB3	2.32	0.45
2:G:955:LEU:HD21	2:G:1026:LYS:O	2.17	0.45
2:G:1179:GLU:OE1	2:G:1179:GLU:N	2.49	0.45
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.32	0.45
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.79	0.45
2:G:1496:VAL:HG21	2:G:1504:TYR:CD2	2.52	0.45
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:290:VAL:HG11	2:G:315:LEU:CD1	2.47	0.45
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.76	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.52	0.45
2:G:937:ARG:CZ	2:G:941:LEU:HD11	2.47	0.45
2:H:1057:TYR:C	2:H:1059:GLN:H	2.20	0.45
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.16	0.45
2:H:202:THR:HA	2:H:228:LEU:HD11	1.98	0.45
2:H:329:THR:HA	2:I:1331:THR:HG22	1.98	0.45
2:H:468:PRO:HA	2:H:479:ARG:HD3	1.99	0.45
2:H:460:ILE:O	2:H:486:ILE:N	2.49	0.45
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.45
2:I:1044:LYS:HE2	3:I:2102:NAP:H4B	1.99	0.45
2:I:1317:ASN:HB3	2:I:1320:ALA:CB	2.47	0.45
2:H:376:ARG:NH2	2:I:1340:LYS:HE3	2.27	0.45
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.17	0.45
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.52	0.45
2:I:655:GLY:HA3	2:I:1272:ALA:HB2	1.98	0.45
2:I:716:PHE:CD1	2:I:727:VAL:HG13	2.52	0.45
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.52	0.45
2:J:129:ILE:CG2	2:J:132:LYS:HD2	2.47	0.45
2:J:1404:VAL:HA	2:J:1412:MET:O	2.17	0.45
2:J:2064:SER:OG	2:J:2067:ILE:HB	2.17	0.45
2:J:31:LEU:HB2	2:J:72:VAL:HG22	1.99	0.45
2:J:31:LEU:HD13	2:J:75:LEU:HG	1.99	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.98	0.45
2:K:187:ARG:HH22	2:K:234:PRO:HA	1.82	0.45
2:K:311:ALA:O	2:K:314:LEU:HB3	2.17	0.45
2:K:560:ASP:HB3	2:K:565:ALA:HB1	1.99	0.45
2:K:57:PRO:HB2	2:K:65:GLN:HE22	1.81	0.45
2:L:870:THR:HG21	2:L:1064:THR:O	2.16	0.45
2:L:1602:LEU:HB3	2:L:1604:GLY:H	1.82	0.45
2:L:318:ILE:HA	2:L:451:ILE:HD13	1.99	0.45
2:L:276:LEU:O	2:L:467:ILE:CD1	2.65	0.45
2:L:818:THR:HA	2:L:829:LYS:HE2	1.98	0.45
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.17	0.44
1:A:1393:VAL:N	1:A:1394:PRO:CD	2.80	0.44
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.98	0.44
1:A:1495:ARG:HH11	1:A:1495:ARG:HG2	1.82	0.44
1:A:1546:GLY:O	1:A:1547:ARG:C	2.55	0.44
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.84	0.44
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1265:LEU:O	1:B:1266:LEU:HD23	2.17	0.44
1:B:1617:ILE:N	1:B:1617:ILE:CD1	2.77	0.44
1:B:558:LEU:HD11	1:E:558:LEU:HD21	1.98	0.44
1:B:570:TYR:O	1:B:574:ILE:HG12	2.17	0.44
1:B:575:ARG:HG2	1:B:579:MET:SD	2.57	0.44
1:B:940:ASN:HB3	1:B:949:GLU:OE2	2.17	0.44
1:C:1393:VAL:N	1:C:1394:PRO:CD	2.80	0.44
1:C:1542:LEU:HD22	1:C:1547:ARG:HD3	1.99	0.44
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.51	0.44
1:C:626:TRP:CD2	1:C:898:PHE:CD1	3.04	0.44
1:B:1321:MET:HE3	1:D:1251:GLN:HG3	1.97	0.44
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.31	0.44
1:D:409:ASP:HB2	1:D:439:ARG:HH12	1.82	0.44
1:E:1184:ASP:OD1	1:E:1185:PRO:HD2	2.16	0.44
1:E:1463:GLU:O	1:E:1467:LEU:HB2	2.17	0.44
1:E:392:ASP:HA	1:E:393:PRO:HD2	1.73	0.44
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.52	0.44
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.57	0.44
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.52	0.44
1:F:766:ALA:HA	1:F:769:ILE:HD12	2.00	0.44
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.16	0.44
2:G:1366:ILE:O	2:G:1366:ILE:HG22	2.17	0.44
2:G:1483:LEU:HG	2:G:1483:LEU:H	1.13	0.44
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.16	0.44
2:G:1643:VAL:CG1	2:G:1649:ILE:HD11	2.48	0.44
4:G:2101:FMN:O2'	4:G:2101:FMN:N1	2.47	0.44
2:G:317:TRP:CD1	2:G:454:ASP:CG	2.90	0.44
2:G:460:ILE:O	2:G:486:ILE:N	2.50	0.44
2:H:1067:LEU:O	2:H:1068:GLN:HG2	2.17	0.44
2:H:1481:ILE:O	2:H:1481:ILE:HG13	2.17	0.44
2:H:1635:TYR:CE2	2:H:1637:VAL:HG23	2.52	0.44
2:H:1977:ARG:CD	2:H:1978:LYS:HG3	2.47	0.44
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.51	0.44
2:H:52:PHE:HB2	2:H:82:PHE:CE2	2.52	0.44
2:H:571:ASP:OD2	2:H:573:VAL:HB	2.17	0.44
2:H:571:ASP:CG	2:H:573:VAL:HG23	2.38	0.44
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.52	0.44
2:H:827:GLN:CD	2:H:827:GLN:H	2.18	0.44
2:H:746:GLY:O	2:H:843:TRP:NE1	2.50	0.44
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.44
2:I:781:GLY:CA	2:I:1071:VAL:HG13	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.84	0.44
2:I:1352:VAL:HG11	2:I:1395:LEU:HD12	1.98	0.44
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.53	0.44
2:I:1764:MET:HB3	2:I:1780:ILE:CG1	2.47	0.44
2:I:1903:VAL:HG13	2:I:1942:VAL:HG11	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.53	0.44
2:J:815:ARG:NH2	2:J:1086:ILE:CG2	2.80	0.44
2:J:1447:GLN:HB3	2:J:1496:VAL:HG13	1.99	0.44
2:J:749:GLY:HA3	4:J:2101:FMN:HM81	1.99	0.44
2:J:38:PRO:HD2	2:J:104:LEU:CD1	2.45	0.44
2:J:459:LYS:HA	2:J:485:ASP:CG	2.37	0.44
2:J:511:THR:C	2:J:512:HIS:CD2	2.91	0.44
2:J:76:VAL:HG11	2:J:109:PHE:HD1	1.82	0.44
2:J:917:ARG:HB2	2:J:937:ARG:HD3	1.99	0.44
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.97	0.44
2:K:1031:VAL:HA	2:K:1032:PRO:HD3	1.70	0.44
2:K:174:GLY:HA2	2:K:524:ILE:CG1	2.47	0.44
2:K:582:LYS:HA	2:K:587:GLN:O	2.17	0.44
2:K:608:MET:HB3	2:K:608:MET:HE2	1.63	0.44
2:K:699:ILE:HD12	2:K:699:ILE:N	2.31	0.44
2:K:906:LEU:HD22	2:K:906:LEU:HA	1.79	0.44
2:L:1083:ILE:H	2:L:1083:ILE:HG13	1.53	0.44
1:F:23:ALA:HB2	2:L:2010:LEU:HB2	1.99	0.44
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.52	0.44
2:L:472:THR:HB	2:L:493:MET:HB3	1.99	0.44
2:L:609:THR:CB	2:L:610:PRO:HD3	2.47	0.44
2:L:787:ASP:O	2:L:790:PRO:HD2	2.17	0.44
1:A:1084:GLU:H	1:A:1084:GLU:CD	2.19	0.44
1:A:984:LEU:HD21	1:A:1510:TRP:O	2.17	0.44
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	1.99	0.44
1:A:382:ILE:HG13	1:A:382:ILE:H	1.53	0.44
1:A:422:LEU:HD13	1:A:429:ILE:HG23	2.00	0.44
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.52	0.44
1:B:1306:GLY:O	1:B:1357:CYS:HB2	2.17	0.44
1:B:681:ILE:HG23	1:B:681:ILE:O	2.17	0.44
1:C:1175:VAL:HA	1:C:1176:PRO:HD3	1.84	0.44
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.17	0.44
1:C:1514:ILE:CD1	1:C:1545:LEU:HB3	2.47	0.44
1:C:392:ASP:HA	1:C:393:PRO:HD2	1.78	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:CB	2.46	0.44
1:D:1703:VAL:CG1	1:D:1711:LEU:HD22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:564:LEU:O	1:D:567:ASN:HB2	2.16	0.44
1:D:626:TRP:CD2	1:D:898:PHE:HD1	2.35	0.44
1:E:1579:GLN:O	1:E:1583:THR:HG23	2.17	0.44
1:E:474:ILE:O	1:E:478:LYS:HG3	2.17	0.44
1:E:526:MET:HE1	1:E:614:PHE:HB3	1.99	0.44
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.83	0.44
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.47	0.44
1:F:852:LEU:O	1:F:852:LEU:HD23	2.17	0.44
2:G:1299:VAL:HA	2:G:1300:PRO:HD3	1.82	0.44
2:G:1370:LEU:CA	2:G:1435:TYR:HE2	2.30	0.44
1:A:47:ILE:CD1	2:G:1818:PHE:HD1	2.30	0.44
2:G:45:ALA:HB2	2:G:101:VAL:HG22	2.00	0.44
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.44
2:H:1336:VAL:O	2:H:1336:VAL:HG12	2.17	0.44
2:H:1914:LEU:O	2:H:1931:GLY:HA3	2.18	0.44
2:H:1972:ILE:HG13	2:H:1972:ILE:H	1.42	0.44
2:H:208:LEU:HD23	2:H:211:LEU:HD12	1.99	0.44
2:H:472:THR:HB	2:H:493:MET:HB3	2.00	0.44
2:H:608:MET:HB3	2:H:608:MET:HE2	1.59	0.44
2:H:729:ASN:N	2:H:729:ASN:HD22	2.15	0.44
2:H:856:THR:HG23	2:H:866:HIS:NE2	2.32	0.44
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.18	0.44
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.99	0.44
2:I:1644:LEU:HB3	2:I:1645:PRO:CD	2.47	0.44
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.99	0.44
2:I:353:ILE:HG22	2:I:353:ILE:O	2.16	0.44
2:I:606:ALA:HB2	2:I:811:MET:CG	2.47	0.44
2:I:827:GLN:H	2:I:827:GLN:CD	2.21	0.44
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.98	0.44
2:J:168:LYS:H	2:J:511:THR:HB	1.82	0.44
2:J:1961:SER:O	2:J:1965:VAL:HG22	2.18	0.44
2:J:1948:MET:HG2	2:J:1993:PHE:CZ	2.52	0.44
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.52	0.44
2:J:868:LEU:HD12	2:J:1066:ILE:HD12	1.99	0.44
2:K:113:PHE:N	2:K:113:PHE:CD1	2.85	0.44
2:K:1336:VAL:HG12	2:K:1336:VAL:O	2.16	0.44
2:K:1571:LEU:O	2:K:1649:ILE:N	2.46	0.44
2:K:1977:ARG:CD	2:K:1978:LYS:HG3	2.46	0.44
2:K:2009:PHE:C	2:K:2009:PHE:HD2	2.20	0.44
2:K:196:PHE:CD1	2:K:266:LYS:HB3	2.52	0.44
2:K:204:ILE:CG2	2:K:312:VAL:HG21	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:48:LEU:HG	2:K:48:LEU:H	1.54	0.44
2:K:876:TRP:C	2:K:876:TRP:HD1	2.16	0.44
2:K:917:ARG:NH1	2:K:917:ARG:CG	2.47	0.44
2:L:1181:PHE:HE1	2:L:1191:PRO:HD2	1.78	0.44
2:L:1443:GLU:OE1	2:L:1443:GLU:HA	2.17	0.44
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.17	0.44
2:L:204:ILE:CG2	2:L:312:VAL:HG11	2.47	0.44
2:L:290:VAL:HG11	2:L:315:LEU:CD1	2.47	0.44
2:L:276:LEU:HD21	2:L:296:ALA:HA	1.99	0.44
2:L:460:ILE:CD1	2:L:487:ILE:HD11	2.46	0.44
2:L:48:LEU:HB2	2:L:79:TYR:OH	2.18	0.44
2:L:511:THR:O	2:L:512:HIS:CD2	2.70	0.44
2:L:52:PHE:HB2	2:L:82:PHE:CE2	2.53	0.44
2:L:846:THR:HG22	2:L:855:ILE:C	2.37	0.44
2:L:871:ARG:HB2	2:L:909:ASP:HB2	1.98	0.44
1:A:1219:GLY:HA2	1:A:1272:PRO:HD2	1.99	0.44
1:A:613:PRO:C	1:A:615:LEU:N	2.70	0.44
1:B:1080:LEU:HA	1:B:1080:LEU:HD23	1.87	0.44
1:B:1186:VAL:HG12	1:B:1187:THR:N	2.31	0.44
1:B:330:LYS:HG3	1:B:333:ARG:HH12	1.80	0.44
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.98	0.44
1:C:1592:ALA:O	1:C:1593:ASP:C	2.54	0.44
1:C:93:GLU:HA	1:C:94:PRO:HD3	1.83	0.44
1:D:1107:GLU:HA	1:D:1108:PRO:HD3	1.72	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.74	0.44
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.98	0.44
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.50	0.44
1:D:1686:PRO:HB2	1:D:1713:PHE:CE1	2.53	0.44
1:E:409:ASP:HB2	1:E:439:ARG:HH12	1.83	0.44
1:E:553:ARG:C	1:E:555:GLN:H	2.21	0.44
1:E:570:TYR:CD2	1:E:574:ILE:HD11	2.51	0.44
1:F:1102:ILE:HD13	1:F:1106:LEU:CD2	2.48	0.44
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.64	0.44
1:F:450:TYR:C	1:F:450:TYR:CD2	2.90	0.44
1:F:452:ILE:HD13	1:F:452:ILE:HA	1.89	0.44
1:F:673:LEU:HD21	1:F:884:MET:HE3	1.99	0.44
1:F:902:ASN:C	1:F:904:GLY:H	2.20	0.44
2:G:821:GLU:OE2	2:G:1083:ILE:HG13	2.16	0.44
2:G:1693:VAL:HA	2:G:1834:ALA:O	2.18	0.44
2:G:38:PRO:HD2	2:G:104:LEU:CD1	2.46	0.44
2:G:916:GLY:O	2:G:924:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1350:ILE:HD13	2:H:1610:MET:SD	2.57	0.44
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.41	0.44
2:H:1384:PRO:CB	2:H:1829:ARG:HH12	2.30	0.44
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.77	0.44
2:H:611:THR:HG21	2:H:817:MET:CE	2.46	0.44
2:H:990:TYR:N	2:H:991:PRO:CD	2.80	0.44
2:I:1219:VAL:HB	2:I:1231:THR:HB	1.99	0.44
2:I:1351:VAL:CG1	2:I:1352:VAL:N	2.80	0.44
2:I:1473:PHE:HE1	2:I:1513:VAL:HG21	1.81	0.44
2:I:1481:ILE:O	2:I:1481:ILE:HG13	2.18	0.44
2:I:1933:LEU:HB3	2:I:1987:VAL:HB	1.99	0.44
2:I:690:LEU:HD22	2:I:691:THR:H	1.82	0.44
2:I:704:GLU:HA	2:I:704:GLU:OE1	2.17	0.44
2:I:906:LEU:HA	2:I:906:LEU:HD22	1.80	0.44
2:I:929:MET:CE	2:I:934:VAL:HA	2.47	0.44
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.18	0.44
2:J:1709:TYR:HE2	2:J:1716:LYS:HE2	1.82	0.44
2:J:1749:PHE:CD2	2:J:1758:ARG:HB3	2.53	0.44
2:J:268:LEU:HB3	2:J:270:ARG:HD3	1.98	0.44
2:J:265:CYS:SG	2:J:275:LEU:HB2	2.57	0.44
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.17	0.44
2:K:1047:LEU:H	2:K:1047:LEU:HD12	1.82	0.44
2:K:1050:SER:HA	2:K:1064:THR:HG21	1.99	0.44
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.52	0.44
2:K:1229:VAL:CG1	2:K:1230:LYS:N	2.81	0.44
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.18	0.44
2:K:153:PRO:HB3	2:K:270:ARG:NH1	2.32	0.44
2:K:1752:PRO:O	2:K:1756:ILE:HG23	2.17	0.44
2:K:1865:LEU:O	2:K:1869:VAL:HG22	2.17	0.44
2:K:271:GLU:H	2:K:274:GLU:CG	2.30	0.44
2:K:287:GLN:O	2:K:287:GLN:HG2	2.18	0.44
2:K:342:ASN:HB3	2:K:406:ARG:HD3	1.99	0.44
2:K:541:LEU:HG	2:K:552:VAL:CG1	2.48	0.44
2:K:609:THR:CB	2:K:610:PRO:HD3	2.46	0.44
2:K:685:VAL:HG13	2:K:686:PRO:HD2	1.99	0.44
2:K:743:TRP:CD1	2:K:761:ILE:HD11	2.52	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.81	0.44
2:L:1371:LEU:O	2:L:1590:ILE:HD11	2.17	0.44
2:L:1969:LEU:HA	2:L:1972:ILE:HD12	2.00	0.44
2:L:202:THR:HA	2:L:228:LEU:HD11	1.98	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:416:GLN:HE22	2:L:425:LYS:H	1.66	0.44
2:L:668:ARG:HH21	2:L:1023:ARG:HH12	1.66	0.44
1:A:1420:TYR:O	1:A:1424:GLN:HG2	2.18	0.44
1:A:1672:GLY:O	1:A:1676:ASN:N	2.50	0.44
1:A:486:VAL:HG13	1:A:648:LEU:H	1.80	0.44
1:B:1249:ILE:H	1:B:1249:ILE:HG13	1.31	0.44
1:C:1011:ARG:HH11	1:C:1012:TRP:HA	1.81	0.44
1:C:1172:ARG:HH11	1:C:1172:ARG:HG3	1.83	0.44
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.53	0.44
1:C:844:ILE:H	1:C:844:ILE:HD12	1.82	0.44
1:C:883:LEU:N	1:C:883:LEU:HD23	2.32	0.44
1:D:1042:LEU:O	1:D:1043:LYS:HB2	2.17	0.44
1:D:1148:LEU:HA	1:D:1148:LEU:HD23	1.67	0.44
1:D:1171:ARG:HD3	1:D:1177:GLU:OE1	2.16	0.44
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.17	0.44
1:E:1065:LYS:O	1:E:1069:GLU:HB2	2.18	0.44
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.58	0.44
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.52	0.44
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.99	0.44
1:F:1160:VAL:HG11	1:F:1337:PRO:HB3	1.99	0.44
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.17	0.44
1:F:687:PHE:C	1:F:687:PHE:CD2	2.91	0.44
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.29	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
2:G:1067:LEU:HB3	4:G:2101:FMN:HM82	2.00	0.44
2:G:342:ASN:HB3	2:G:406:ARG:HD3	1.97	0.44
2:G:528:THR:HA	2:G:531:ASN:ND2	2.33	0.44
2:G:609:THR:CG2	2:G:633:GLY:HA3	2.46	0.44
2:G:754:PHE:N	2:G:754:PHE:CD1	2.85	0.44
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.32	0.44
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.70	0.44
2:H:1643:VAL:HG13	2:H:1649:ILE:HD11	1.99	0.44
2:H:1746:THR:CB	2:H:1792:THR:HG23	2.43	0.44
2:H:186:LEU:HD21	2:H:256:VAL:HG22	1.99	0.44
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.18	0.44
2:H:1966:ARG:HG3	2:H:1967:ALA:N	2.33	0.44
2:H:1886:VAL:HG22	2:H:1995:THR:HG22	1.99	0.44
2:H:604:MET:HE1	2:H:777:VAL:HG11	1.99	0.44
2:H:915:PHE:CD2	2:H:915:PHE:O	2.70	0.44
2:H:938:MET:HE2	2:H:959:THR:HG22	1.99	0.44
2:I:1231:THR:CG2	2:I:1595:VAL:HG11	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1336:VAL:HG12	2:I:1336:VAL:O	2.17	0.44
2:H:327:PRO:N	2:I:1338:ARG:NH2	2.66	0.44
2:I:155:ASP:N	2:I:155:ASP:OD1	2.51	0.44
2:I:1728:GLU:HG2	2:I:1753:ARG:HE	1.82	0.44
2:I:202:THR:O	2:I:206:GLU:HG3	2.18	0.44
2:I:610:PRO:HD2	4:I:2101:FMN:C6	2.24	0.44
2:I:719:GLY:O	2:I:755:GLU:HG3	2.17	0.44
2:J:45:ALA:HB2	2:J:101:VAL:HG22	2.00	0.44
2:J:611:THR:HG22	2:J:1051:GLU:OE2	2.18	0.44
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.17	0.44
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.17	0.44
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	2.00	0.44
2:J:197:VAL:HA	2:J:262:MET:HE1	1.99	0.44
2:J:728:ILE:O	2:J:732:LYS:HG3	2.17	0.44
2:J:796:TRP:HH2	2:J:805:MET:HE1	1.76	0.44
2:K:1977:ARG:HD3	2:K:1978:LYS:HG3	1.98	0.44
2:K:606:ALA:HB2	2:K:811:MET:CG	2.47	0.44
2:K:690:LEU:HD22	2:K:691:THR:H	1.83	0.44
2:K:617:PHE:HE1	2:K:819:ALA:HB3	1.82	0.44
2:K:826:LYS:HD3	2:K:826:LYS:HA	1.79	0.44
2:L:821:GLU:OE2	2:L:1083:ILE:HG13	2.17	0.44
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.18	0.44
2:L:1981:GLU:O	2:L:1984:PRO:HG3	2.16	0.44
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.32	0.44
1:A:687:PHE:O	1:A:687:PHE:HD2	2.01	0.44
1:B:1104:GLN:OE1	1:D:1107:GLU:CB	2.60	0.44
1:B:1171:ARG:HD3	1:B:1177:GLU:OE1	2.18	0.44
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.60	0.44
1:B:1303:LEU:HA	1:B:1303:LEU:HD23	1.61	0.44
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.50	0.44
1:B:535:TYR:HH	1:B:630:LYS:HE3	1.74	0.44
1:B:6:GLU:HA	2:H:2050:ILE:HD11	2.00	0.44
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.31	0.44
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.78	0.44
1:C:526:MET:HE3	1:C:614:PHE:CB	2.48	0.44
1:C:560:LYS:O	1:C:564:LEU:HB2	2.18	0.44
1:D:1078:ILE:HG23	1:D:1352:MET:HE3	1.99	0.44
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	2.00	0.44
1:D:1514:ILE:CD1	1:D:1545:LEU:HB3	2.48	0.44
1:E:1522:PHE:CD2	1:E:1534:GLU:HB3	2.52	0.44
1:E:1686:PRO:HD2	1:E:1687:TYR:CE2	2.52	0.44

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:ARG:HD3	1:A:1177:GLU:OE1	2.17	0.44
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.52	0.44
1:A:1648:LYS:O	1:A:1652:GLU:HB2	2.17	0.44
1:A:330:LYS:HG3	1:A:333:ARG:HH12	1.79	0.44
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.38	0.44
1:B:1102:ILE:HD11	1:B:1148:LEU:HG	1.98	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.16	0.44
1:B:413:MET:O	1:B:416:ASP:HB2	2.18	0.44
1:B:579:MET:CE	1:E:612:ILE:HD12	2.48	0.44
1:B:613:PRO:O	1:B:615:LEU:N	2.50	0.44
1:C:1078:ILE:HA	1:C:1162:GLY:HA2	2.00	0.44
1:C:452:ILE:HG22	1:C:453:ASP:N	2.31	0.44
1:C:914:LEU:O	1:C:917:LYS:HB3	2.16	0.44
1:D:524:LYS:O	1:D:525:GLN:C	2.55	0.44
1:D:539:THR:HA	1:D:542:GLN:HE21	1.82	0.44
1:D:612:ILE:HG12	1:D:628:TYR:CD2	2.53	0.44
1:E:1580:VAL:O	1:E:1617:ILE:HD11	2.17	0.44
1:E:1674:ILE:HG22	1:E:1675:ASN:OD1	2.18	0.44
1:E:363:GLU:O	1:E:366:LYS:HB2	2.17	0.44
1:E:628:TYR:CD1	1:E:629:SER:N	2.86	0.44
1:E:746:PHE:CG	3:E:1901:NAP:H4D	2.53	0.44
1:E:889:VAL:O	1:E:893:GLN:HG3	2.18	0.44
1:E:997:THR:HG23	1:E:1361:VAL:HG22	1.99	0.44
1:F:1219:GLY:HA2	1:F:1272:PRO:HD2	2.00	0.44
1:F:1514:ILE:CD1	1:F:1545:LEU:HB3	2.48	0.44
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.48	0.44
1:F:857:ASN:HA	1:F:860:ALA:HB2	1.98	0.44
2:G:1207:THR:O	2:G:1215:THR:HG23	2.17	0.44
2:G:1845:VAL:CG2	2:G:1856:LEU:HD22	2.42	0.44
2:G:2008:THR:HG22	2:G:2011:ARG:HE	1.83	0.44
2:G:489:GLU:O	2:G:492:ARG:HG2	2.17	0.44
2:G:942:MET:HE2	2:G:955:LEU:HB3	1.99	0.44
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.17	0.44
2:H:2003:VAL:HA	2:H:2004:PRO:HD3	1.85	0.44
2:H:310:ARG:HH12	2:H:459:LYS:H	1.66	0.44
2:H:613:VAL:H	2:H:614:PRO:HD3	1.82	0.44
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.98	0.44
2:H:912:LYS:HE2	2:H:1028:VAL:O	2.18	0.44
2:I:1163:LEU:HA	2:I:1163:LEU:HD12	1.83	0.44
2:I:1515:LEU:CB	2:I:1525:VAL:HG21	2.47	0.44
2:I:174:GLY:H	2:I:517:GLY:CA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:709:LEU:HD23	2:I:709:LEU:N	2.28	0.44
2:J:1175:MET:O	2:J:1192:LEU:HD12	2.17	0.44
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.53	0.44
2:J:1234:ILE:HG22	2:J:1242:ILE:HG22	1.99	0.44
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.18	0.44
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.17	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:J:762:LEU:HD23	2:J:805:MET:HE1	2.00	0.44
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.00	0.44
2:K:1945:ILE:O	2:K:1949:GLN:HB2	2.18	0.44
2:K:382:LEU:HG	2:K:390:VAL:HB	2.00	0.44
2:K:38:PRO:HD2	2:K:104:LEU:CD1	2.45	0.44
2:K:506:VAL:O	2:K:506:VAL:CG1	2.63	0.44
2:K:52:PHE:HB2	2:K:82:PHE:CE2	2.52	0.44
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.48	0.44
2:K:617:PHE:CD1	2:K:822:ALA:CA	3.01	0.44
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.18	0.44
2:L:1028:VAL:HA	2:L:1029:PRO:HD3	1.73	0.44
2:L:1179:GLU:N	2:L:1179:GLU:OE1	2.47	0.44
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	2.00	0.44
2:L:1807:GLN:HB3	2:L:1860:VAL:CG1	2.47	0.44
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.98	0.44
2:L:26:LEU:HD23	2:L:49:LYS:HG3	2.00	0.44
2:L:617:PHE:HE1	2:L:819:ALA:HB3	1.83	0.44
2:L:990:TYR:N	2:L:991:PRO:CD	2.80	0.44
1:A:1491:ASN:H	1:A:1491:ASN:ND2	2.14	0.44
1:A:544:ASP:HB3	1:F:569:LEU:HD22	2.00	0.44
1:A:612:ILE:HD11	1:F:579:MET:HB3	2.00	0.44
1:B:1491:ASN:N	1:B:1491:ASN:ND2	2.65	0.44
1:B:383:TYR:O	1:B:387:ILE:HG12	2.18	0.44
1:B:452:ILE:HG22	1:B:453:ASP:N	2.31	0.44
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.99	0.44
1:B:902:ASN:C	1:B:904:GLY:H	2.21	0.44
1:C:1011:ARG:NH1	1:C:1012:TRP:HA	2.32	0.44
1:C:1153:ALA:O	1:F:1121:ARG:NH1	2.51	0.44
1:C:1293:THR:HG23	1:C:1298:LYS:HB2	1.99	0.44
1:C:472:GLN:HE21	1:C:472:GLN:HA	1.82	0.44
1:C:667:ALA:O	1:C:671:GLN:HG3	2.18	0.44
1:D:1102:ILE:H	1:D:1102:ILE:HG13	1.64	0.44
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.82	0.44
1:D:801:LEU:HD13	1:D:822:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1160:VAL:HG11	1:E:1337:PRO:HB3	1.99	0.44
1:E:445:LEU:O	1:E:448:MET:HB2	2.18	0.44
1:E:759:ILE:HG12	1:E:813:LEU:HD23	2.00	0.44
1:E:498:THR:CG2	1:E:858:LEU:HA	2.42	0.44
1:F:1171:ARG:HD3	1:F:1177:GLU:OE1	2.18	0.44
1:F:1404:ALA:HA	1:F:1501:ALA:HB1	2.00	0.44
1:F:533:SER:O	1:F:611:THR:HG22	2.18	0.44
1:F:880:LEU:C	1:F:882:GLY:N	2.70	0.44
2:G:1769:VAL:HG13	2:G:1774:SER:C	2.38	0.44
2:G:1721:ARG:NH1	2:G:1854:GLU:OE2	2.51	0.44
2:G:1945:ILE:O	2:G:1949:GLN:HB2	2.17	0.44
2:G:248:VAL:O	2:G:252:LEU:HB2	2.18	0.44
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.98	0.44
2:H:113:PHE:CD1	2:H:113:PHE:N	2.85	0.44
2:H:1331:THR:O	2:H:1331:THR:HG22	2.18	0.44
2:H:138:ARG:HB2	2:H:192:THR:HA	1.99	0.44
2:H:462:ALA:HB3	2:H:483:ASP:HA	1.99	0.44
2:H:76:VAL:HG11	2:H:109:PHE:HD1	1.83	0.44
2:H:617:PHE:HE1	2:H:819:ALA:HB3	1.83	0.44
2:I:1645:PRO:O	2:I:1646:ASN:HB2	2.16	0.44
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	2.00	0.44
2:I:223:LYS:HB3	2:I:242:TYR:CZ	2.53	0.44
2:J:1002:GLU:C	2:J:1004:SER:H	2.19	0.44
2:J:1299:VAL:HG13	2:J:1301:PHE:CE1	2.53	0.44
2:J:1769:VAL:HG13	2:J:1774:SER:C	2.38	0.44
2:J:1905:GLU:O	2:J:1908:ALA:HB3	2.17	0.44
2:J:169:ILE:HG22	2:J:279:PHE:CD2	2.52	0.44
2:J:444:LEU:HA	2:J:444:LEU:HD23	1.76	0.44
2:J:613:VAL:HG13	2:J:614:PRO:CD	2.47	0.44
2:J:664:TYR:C	2:J:666:ASN:H	2.19	0.44
2:J:930:THR:CG2	2:J:933:GLU:H	2.27	0.44
2:J:937:ARG:CZ	2:J:941:LEU:HD11	2.47	0.44
2:J:976:GLN:HA	2:J:977:PRO:HD3	1.88	0.44
2:K:1102:LEU:HD23	2:K:1102:LEU:HA	1.83	0.44
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.17	0.44
2:K:1120:ILE:HD11	2:K:1173:HIS:NE2	2.32	0.44
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	2.00	0.44
2:K:1637:VAL:HG11	2:K:1679:LEU:CD1	2.39	0.44
2:K:169:ILE:HG22	2:K:279:PHE:CD2	2.51	0.44
2:K:381:SER:OG	2:K:392:THR:HG23	2.16	0.44
2:K:173:PHE:CE2	2:K:516:PHE:HB2	2.53	0.44

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.17	0.44
2:K:1171:TRP:CH2	2:K:1236:LEU:HB2	2.53	0.44
2:K:1844:LEU:HD22	2:K:1850:VAL:HG21	1.99	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	1.98	0.44
2:K:196:PHE:N	2:K:196:PHE:HD2	2.16	0.44
2:K:1985:GLN:C	2:K:1987:VAL:N	2.68	0.44
2:K:461:PRO:HB3	2:K:483:ASP:O	2.17	0.44
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	2.00	0.44
2:L:781:GLY:CA	2:L:1071:VAL:HG13	2.45	0.44
2:L:1594:ARG:NH1	2:L:1595:VAL:HG13	2.33	0.44
2:L:459:LYS:HA	2:L:485:ASP:CG	2.38	0.44
2:L:704:GLU:OE1	2:L:704:GLU:HA	2.17	0.44
2:L:723:ALA:O	2:L:726:GLN:HB2	2.17	0.44
1:A:1160:VAL:C	1:A:1352:MET:HE1	2.38	0.44
1:A:1703:VAL:HG22	1:A:1712:LYS:C	2.37	0.44
1:A:407:ARG:HG3	1:A:407:ARG:H	1.59	0.44
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.80	0.44
1:A:553:ARG:C	1:A:555:GLN:H	2.21	0.44
1:A:526:MET:CE	1:A:614:PHE:HB3	2.48	0.44
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.18	0.44
1:B:535:TYR:CE1	1:B:610:GLU:HB3	2.53	0.44
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	2.00	0.44
1:D:28:TRP:HE1	1:D:32:GLN:NE2	2.16	0.44
1:D:553:ARG:C	1:D:555:GLN:H	2.20	0.44
1:E:1079:ARG:HG2	1:E:1079:ARG:NH1	2.14	0.44
1:E:1470:ARG:HA	1:E:1470:ARG:HD3	1.77	0.44
1:E:1494:TRP:CG	1:E:1505:GLY:HA3	2.53	0.44
1:E:452:ILE:HG22	1:E:453:ASP:N	2.33	0.44
1:E:914:LEU:O	1:E:917:LYS:HB3	2.18	0.44
2:G:1000:TYR:HA	2:G:1001:PRO:HD2	1.69	0.44
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.00	0.44
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.18	0.44
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.48	0.44
2:G:472:THR:CG2	2:G:499:VAL:HG22	2.48	0.44
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.48	0.44
2:H:1149:ALA:HA	2:H:1150:PRO:HD3	1.89	0.44
2:H:664:TYR:C	2:H:666:ASN:H	2.22	0.44
2:H:765:TYR:CD2	2:H:805:MET:HG2	2.52	0.44
2:H:932:ALA:O	2:H:935:VAL:HG13	2.18	0.44
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.17	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HG3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1977:ARG:HD3	2:I:1978:LYS:HG3	1.99	0.44
2:I:459:LYS:HA	2:I:485:ASP:CG	2.37	0.44
2:I:676:LEU:C	2:I:676:LEU:HD13	2.38	0.44
2:I:31:LEU:HD13	2:I:75:LEU:HG	1.99	0.44
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.44
2:J:1314:GLU:O	2:J:1394:VAL:HA	2.18	0.44
2:J:1351:VAL:CG2	2:J:1584:SER:HA	2.47	0.44
2:J:1738:VAL:HA	2:J:1800:LEU:HD13	1.99	0.44
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.31	0.44
2:J:1865:LEU:O	2:J:1869:VAL:HG22	2.18	0.44
2:K:1969:LEU:HA	2:K:1972:ILE:HD12	1.99	0.44
2:K:1981:GLU:O	2:K:1984:PRO:HG3	2.18	0.44
2:K:2064:SER:OG	2:K:2067:ILE:HB	2.18	0.44
2:K:656:ARG:NH1	2:K:656:ARG:CG	2.80	0.44
2:K:704:GLU:OE1	2:K:704:GLU:HA	2.18	0.44
2:K:754:PHE:N	2:K:754:PHE:CD1	2.86	0.44
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	2.00	0.44
2:L:226:ASP:OD2	2:L:229:GLN:HB2	2.18	0.44
2:L:187:ARG:NH2	2:L:234:PRO:HA	2.33	0.44
2:L:174:GLY:HA2	2:L:524:ILE:CG1	2.48	0.44
2:L:580:LEU:O	2:L:581:VAL:HG23	2.18	0.44
2:L:617:PHE:CD1	2:L:822:ALA:CA	3.01	0.44
1:A:1057:GLU:HA	1:A:1058:PRO:HD3	1.87	0.43
1:A:715:ASN:ND2	3:A:1901:NAP:H62A	2.16	0.43
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.43
1:A:427:ARG:O	1:A:430:VAL:HB	2.17	0.43
1:B:405:TRP:CH2	1:B:1609:SER:HB3	2.53	0.43
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.53	0.43
1:C:1102:ILE:HD13	1:C:1106:LEU:CD2	2.48	0.43
1:C:620:LYS:HE3	1:C:626:TRP:CZ2	2.53	0.43
1:C:799:LEU:HD11	1:C:824:LEU:HD12	1.99	0.43
1:C:902:ASN:C	1:C:904:GLY:H	2.21	0.43
1:D:1102:ILE:CG2	1:D:1104:GLN:HG2	2.47	0.43
1:D:898:PHE:HD2	1:D:899:ALA:N	2.16	0.43
1:E:1042:LEU:O	1:E:1043:LYS:HB2	2.18	0.43
1:E:626:TRP:CD2	1:E:898:PHE:CD1	3.06	0.43
1:E:532:ILE:HG23	1:E:907:PHE:CB	2.46	0.43
1:F:1050:TRP:HA	1:F:1050:TRP:HE3	1.82	0.43
1:F:1507:LEU:HD23	1:F:1507:LEU:HA	1.84	0.43
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.53	0.43
1:F:452:ILE:HG22	1:F:453:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:889:VAL:O	1:F:893:GLN:HG3	2.17	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.48	0.43
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	2.00	0.43
1:A:30:GLU:CB	2:G:2045:ALA:HB1	2.48	0.43
2:G:48:LEU:H	2:G:48:LEU:HG	1.55	0.43
2:G:618:VAL:HG11	2:G:648:ILE:HD11	2.00	0.43
2:H:611:THR:HG22	2:H:1051:GLU:OE2	2.18	0.43
2:H:130:THR:HG23	2:H:546:ASP:HB3	1.99	0.43
2:H:595:SER:HB2	2:H:600:VAL:O	2.18	0.43
1:C:962:ASN:HD22	2:I:1006:GLN:HE22	1.64	0.43
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.43
2:I:1507:VAL:HG23	2:I:1530:TYR:HE2	1.82	0.43
2:I:1551:ILE:HG22	2:I:1552:GLU:N	2.32	0.43
2:I:1587:TYR:O	2:I:1588:ASN:C	2.56	0.43
2:I:1752:PRO:O	2:I:1756:ILE:HG23	2.18	0.43
2:I:1768:THR:O	2:I:1776:LYS:HB2	2.17	0.43
2:I:2044:THR:HG21	2:I:2054:TYR:OH	2.18	0.43
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.48	0.43
2:I:221:TYR:N	2:I:222:PRO:HD3	2.33	0.43
2:I:256:VAL:O	2:I:260:HIS:HD2	2.00	0.43
2:I:594:MET:SD	2:I:809:GLY:HA3	2.58	0.43
2:I:890:LYS:HB2	2:I:890:LYS:HE3	1.80	0.43
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.17	0.43
2:J:1725:HIS:CD2	2:J:1854:GLU:HB2	2.53	0.43
2:J:2009:PHE:C	2:J:2009:PHE:CD2	2.90	0.43
2:J:2050:ILE:HG12	2:J:2050:ILE:O	2.18	0.43
2:J:24:LEU:CD1	2:J:37:VAL:HG21	2.48	0.43
2:J:821:GLU:OE2	2:J:1083:ILE:HG13	2.18	0.43
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.16	0.43
2:K:1342:PHE:CE2	2:K:1391:VAL:CG2	2.99	0.43
2:K:1750:GLY:N	2:K:1754:GLY:HA3	2.32	0.43
2:K:1982:ALA:C	2:K:1984:PRO:HD3	2.37	0.43
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.47	0.43
2:K:221:TYR:N	2:K:222:PRO:HD3	2.33	0.43
2:K:272:PRO:HG2	2:K:300:THR:O	2.18	0.43
2:K:416:GLN:C	2:K:418:ARG:H	2.22	0.43
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.48	0.43
2:L:1194:ARG:HH21	2:L:1601:ASN:CG	2.21	0.43
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.78	0.43
2:L:1551:ILE:HG22	2:L:1552:GLU:N	2.32	0.43
2:L:1886:VAL:HG22	2:L:1995:THR:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.44	0.43
2:L:1067:LEU:CB	4:L:2101:FMN:HM82	2.48	0.43
2:L:882:LYS:HD3	2:L:898:ARG:CZ	2.48	0.43
1:A:1102:ILE:HD13	1:A:1106:LEU:CD2	2.48	0.43
1:A:1126:LYS:O	1:A:1127:VAL:HG23	2.19	0.43
1:A:1275:THR:HA	1:A:1276:PRO:HD3	1.57	0.43
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.99	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.16	0.43
1:B:1031:MET:HE2	1:B:1031:MET:HB3	1.67	0.43
1:B:1623:THR:HG22	1:B:1633:GLN:HB2	2.00	0.43
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	2.00	0.43
1:B:883:LEU:HD23	1:B:883:LEU:N	2.33	0.43
1:C:1063:ASP:O	1:C:1064:VAL:C	2.56	0.43
1:C:12:THR:HG21	2:I:2066:LYS:HD3	1.99	0.43
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.52	0.43
1:C:1480:ARG:NH2	1:F:1488:SER:HB2	2.34	0.43
1:C:414:TYR:CD2	1:C:414:TYR:C	2.91	0.43
1:D:1084:GLU:CD	1:D:1084:GLU:H	2.22	0.43
1:D:11:TYR:CG	2:J:2027:LYS:HG2	2.53	0.43
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.98	0.43
1:D:414:TYR:CE2	1:D:418:ILE:CD1	3.01	0.43
1:D:50:SER:HB2	1:D:52:THR:HG23	2.00	0.43
1:D:916:THR:HA	1:D:919:ARG:HB2	2.00	0.43
1:E:1219:GLY:CA	1:E:1272:PRO:HD2	2.48	0.43
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	2.00	0.43
1:F:1005:TRP:HE1	1:F:1561:LEU:CD2	2.31	0.43
1:F:492:ILE:H	1:F:492:ILE:HG13	1.51	0.43
1:F:498:THR:CG2	1:F:858:LEU:HA	2.43	0.43
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.18	0.43
2:G:1289:TYR:CD2	2:G:1370:LEU:HD23	2.53	0.43
2:G:1643:VAL:HG13	2:G:1649:ILE:HD11	2.00	0.43
2:G:1966:ARG:HG3	2:G:1967:ALA:N	2.33	0.43
2:G:664:TYR:C	2:G:666:ASN:H	2.22	0.43
1:B:1674:ILE:CD1	2:H:1011:GLN:HG3	2.41	0.43
2:H:1026:LYS:HG2	2:H:1027:PRO:HD2	2.00	0.43
2:H:1769:VAL:HG22	2:H:1775:ILE:CA	2.37	0.43
2:H:1951:ILE:H	2:H:1951:ILE:HD12	1.83	0.43
2:H:2021:LEU:HD22	2:H:2025:ILE:HD11	2.00	0.43
2:H:1067:LEU:CB	4:H:2101:FMN:HM82	2.49	0.43
2:H:279:PHE:HB2	2:H:467:ILE:HD12	2.00	0.43
2:H:594:MET:HB3	2:H:808:ASP:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:790:PRO:HA	2:H:795:SER:OG	2.18	0.43
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.81	0.43
2:I:1342:PHE:HE2	2:I:1391:VAL:HB	1.83	0.43
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	2.00	0.43
2:I:1810:LEU:HA	2:I:1810:LEU:HD23	1.89	0.43
1:C:29:ILE:HG13	2:I:1920:TYR:O	2.18	0.43
2:I:545:ILE:HG22	2:I:555:LYS:HD3	2.00	0.43
2:I:613:VAL:N	2:I:614:PRO:HD3	2.32	0.43
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	2.18	0.43
2:J:1602:LEU:HB3	2:J:1604:GLY:H	1.83	0.43
2:J:1706:MET:HE2	2:J:1738:VAL:CG1	2.48	0.43
2:J:1851:MET:HE3	2:J:1851:MET:HB3	1.86	0.43
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.98	0.43
2:J:44:GLN:O	2:J:48:LEU:HG	2.18	0.43
2:J:929:MET:HE1	2:J:934:VAL:HG22	2.00	0.43
2:K:1293:TRP:CE2	2:K:1354:TRP:HZ2	2.36	0.43
2:K:1644:LEU:HB3	2:K:1645:PRO:CD	2.47	0.43
2:K:1873:ARG:NH1	2:K:2002:ASP:CB	2.81	0.43
2:K:138:ARG:HB3	2:K:192:THR:HG23	2.00	0.43
2:K:2073:ASN:O	2:K:2076:LYS:N	2.51	0.43
2:K:437:ALA:HA	2:K:438:PRO:HD3	1.80	0.43
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.43
2:L:1359:LYS:O	2:L:1362:PHE:HD1	2.01	0.43
2:L:1574:PRO:HD3	2:L:1611:TYR:HE2	1.82	0.43
2:L:1590:ILE:O	2:L:1597:SER:HB3	2.17	0.43
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.52	0.43
2:L:790:PRO:HA	2:L:795:SER:OG	2.18	0.43
1:A:27:ARG:H	1:A:27:ARG:HG2	1.38	0.43
1:B:1063:ASP:O	1:B:1064:VAL:C	2.55	0.43
1:B:1157:ASP:O	1:B:1327:ALA:HB3	2.17	0.43
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.34	0.43
1:B:409:ASP:HB2	1:B:439:ARG:HH12	1.83	0.43
1:B:533:SER:O	1:B:611:THR:HG22	2.18	0.43
1:B:632:LEU:O	1:B:633:THR:C	2.56	0.43
1:B:498:THR:CG2	1:B:858:LEU:HA	2.43	0.43
1:D:1470:ARG:HD3	1:D:1470:ARG:HA	1.80	0.43
1:D:1599:MET:HA	1:D:1602:PHE:HD2	1.84	0.43
1:D:546:ARG:HH21	1:D:583:GLN:HG2	1.83	0.43
1:D:626:TRP:CD2	1:D:898:PHE:CD1	3.07	0.43
1:D:989:ASN:H	1:D:1491:ASN:ND2	2.03	0.43
1:B:340:LEU:HD12	1:E:347:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:ARG:HH11	1:E:492:ILE:HG12	1.82	0.43
1:E:533:SER:HB2	1:E:612:ILE:HB	1.99	0.43
1:E:533:SER:HB2	1:E:612:ILE:H	1.83	0.43
1:E:667:ALA:O	1:E:671:GLN:HG3	2.18	0.43
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.47	0.43
1:F:1218:VAL:O	1:F:1271:GLY:HA3	2.18	0.43
1:F:1495:ARG:O	1:F:1496:ARG:HB3	2.19	0.43
2:G:1102:LEU:HA	2:G:1102:LEU:HD23	1.78	0.43
1:A:81:TYR:HD1	2:G:1821:MET:HE3	1.84	0.43
2:G:465:LEU:HB2	2:G:479:ARG:CG	2.48	0.43
2:G:481:LEU:C	2:G:483:ASP:H	2.22	0.43
2:G:60:THR:HG22	2:G:62:GLU:HG3	2.00	0.43
2:G:718:PRO:HG2	2:G:741:LEU:HD11	1.99	0.43
2:G:883:ILE:HG22	2:G:884:PHE:CD2	2.54	0.43
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	2.18	0.43
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.26	0.43
2:H:1588:ASN:HA	2:H:1589:PRO:HD3	1.88	0.43
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.53	0.43
2:H:196:PHE:N	2:H:196:PHE:CD2	2.85	0.43
2:H:506:VAL:CG1	2:H:506:VAL:O	2.63	0.43
2:I:1179:GLU:N	2:I:1179:GLU:OE1	2.47	0.43
2:I:1366:ILE:HG22	2:I:1366:ILE:O	2.19	0.43
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.17	0.43
2:I:196:PHE:CD2	2:I:196:PHE:N	2.86	0.43
2:I:2009:PHE:O	2:I:2009:PHE:HD2	2.00	0.43
2:I:511:THR:O	2:I:512:HIS:CD2	2.71	0.43
2:I:608:MET:H	2:I:612:THR:CB	2.28	0.43
2:I:670:MET:HE2	2:I:670:MET:HB3	1.71	0.43
2:J:1175:MET:SD	2:J:1274:ILE:HD13	2.58	0.43
2:J:1769:VAL:HG22	2:J:1775:ILE:CA	2.38	0.43
2:J:196:PHE:N	2:J:196:PHE:HD2	2.15	0.43
2:J:290:VAL:HG11	2:J:315:LEU:CD1	2.48	0.43
2:J:481:LEU:C	2:J:483:ASP:H	2.22	0.43
2:J:743:TRP:CZ2	2:J:757:PHE:HA	2.50	0.43
2:K:45:ALA:HB2	2:K:101:VAL:HG22	2.01	0.43
2:K:1346:MET:HE2	2:K:1346:MET:HB3	1.78	0.43
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.48	0.43
2:K:1709:TYR:HE2	2:K:1716:LYS:HE2	1.84	0.43
2:K:1721:ARG:NH1	2:K:1854:GLU:OE2	2.51	0.43
2:K:245:SER:HA	2:K:436:THR:OG1	2.19	0.43
2:K:134:ILE:HG13	2:K:545:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:821:GLU:HB2	2:K:1083:ILE:HD11	1.99	0.43
2:L:1351:VAL:CG1	2:L:1352:VAL:N	2.81	0.43
2:L:1951:ILE:HD12	2:L:1951:ILE:H	1.83	0.43
2:L:676:LEU:HD13	2:L:676:LEU:C	2.39	0.43
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.53	0.43
1:A:491:SER:O	1:A:493:PRO:HD3	2.19	0.43
1:A:79:LEU:HD12	1:A:88:ILE:HD13	2.00	0.43
1:B:996:VAL:HG11	1:B:1578:LEU:HD11	2.00	0.43
1:B:1697:LEU:O	1:D:1405:ARG:HA	2.18	0.43
1:B:4:GLU:HG3	1:B:4:GLU:H	1.54	0.43
1:B:498:THR:HG22	1:B:508:TYR:CD1	2.53	0.43
1:B:716:GLN:NE2	1:B:747:ALA:HB3	2.32	0.43
1:B:828:TRP:NE1	1:B:838:THR:HA	2.34	0.43
1:B:673:LEU:HD21	1:B:884:MET:HE1	1.99	0.43
1:C:1258:MET:HG2	1:C:1307:PHE:CZ	2.53	0.43
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.47	0.43
1:D:1303:LEU:HA	1:D:1303:LEU:HD23	1.61	0.43
1:D:418:ILE:O	1:D:418:ILE:HG22	2.18	0.43
1:D:883:LEU:HD23	1:D:883:LEU:N	2.33	0.43
1:D:956:ILE:HA	2:J:977:PRO:HA	2.00	0.43
1:D:967:PHE:CE2	1:D:1662:GLN:CB	3.01	0.43
1:E:1094:LYS:HE3	1:E:1316:TYR:CG	2.52	0.43
1:E:1363:MET:HB2	1:E:1363:MET:HE2	1.74	0.43
1:E:792:THR:O	2:H:1750:GLY:HA3	2.19	0.43
1:E:883:LEU:N	1:E:883:LEU:HD23	2.32	0.43
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.48	0.43
1:A:379:HIS:HE1	1:F:387:ILE:HD13	1.83	0.43
1:F:662:ALA:HA	1:F:694:TYR:CZ	2.54	0.43
2:G:1411:LYS:HB2	2:G:1439:TYR:CD1	2.53	0.43
2:G:1635:TYR:CE2	2:G:1637:VAL:HG23	2.53	0.43
2:G:1067:LEU:CB	4:G:2101:FMN:HM82	2.49	0.43
2:G:350:MET:HG3	2:G:435:ILE:CB	2.48	0.43
2:G:719:GLY:O	2:G:755:GLU:HG3	2.18	0.43
2:G:838:VAL:HG12	2:G:839:ASP:N	2.33	0.43
2:G:846:THR:HG22	2:G:855:ILE:C	2.38	0.43
2:G:990:TYR:N	2:G:991:PRO:CD	2.81	0.43
2:H:1366:ILE:O	2:H:1366:ILE:HG22	2.18	0.43
2:H:43:PHE:CB	2:I:22:ARG:HE	2.30	0.43
2:H:827:GLN:O	2:H:830:GLN:HB3	2.18	0.43
2:I:1517:LEU:CG	2:I:1523:ILE:HD11	2.48	0.43
2:I:1726:PHE:CE1	2:I:1857:VAL:HB	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1969:LEU:HA	2:I:1972:ILE:HD12	1.99	0.43
2:I:618:VAL:CG1	2:I:648:ILE:HD11	2.48	0.43
2:I:690:LEU:HB2	2:I:711:ILE:HG21	2.00	0.43
2:I:716:PHE:HD1	2:I:727:VAL:CG1	2.31	0.43
2:I:930:THR:CG2	2:I:933:GLU:H	2.26	0.43
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.73	0.43
2:J:1050:SER:HA	2:J:1064:THR:HG21	2.01	0.43
2:J:580:LEU:HG	2:J:1098:LEU:HD23	2.01	0.43
2:J:589:PHE:CD1	2:J:1116:PHE:CD2	3.06	0.43
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.06	0.43
2:J:381:SER:OG	2:J:392:THR:HG23	2.18	0.43
2:J:907:ASN:HA	2:J:913:VAL:HG13	1.99	0.43
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.18	0.43
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.18	0.43
2:K:1324:PHE:HA	2:K:1583:VAL:HG11	2.00	0.43
2:K:1706:MET:HE2	2:K:1738:VAL:HG11	2.00	0.43
2:K:174:GLY:H	2:K:517:GLY:CA	2.30	0.43
2:K:205:ALA:O	2:K:209:GLN:HG3	2.18	0.43
2:K:1047:LEU:HD11	3:K:2102:NAP:O1N	2.18	0.43
2:K:221:TYR:HA	2:K:242:TYR:OH	2.18	0.43
2:K:726:GLN:O	2:K:730:ILE:HG12	2.18	0.43
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.70	0.43
2:L:1133:LEU:HD12	2:L:1146:LEU:HD21	2.00	0.43
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.33	0.43
2:L:1610:MET:CA	2:L:1610:MET:HE2	2.33	0.43
2:L:1637:VAL:CG1	2:L:1679:LEU:HD13	2.34	0.43
2:L:1985:GLN:C	2:L:1987:VAL:N	2.69	0.43
2:L:828:ALA:O	2:L:832:ILE:HG13	2.18	0.43
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.17	0.43
1:A:1554:LEU:HD23	1:A:1606:VAL:HG12	2.00	0.43
1:A:16:GLU:OE2	2:G:2066:LYS:HD2	2.18	0.43
1:A:352:ARG:HB2	1:A:352:ARG:HE	1.62	0.43
1:A:614:PHE:O	1:A:615:LEU:HD23	2.18	0.43
1:A:767:HIS:NE2	1:A:771:LEU:HD22	2.33	0.43
1:B:1050:TRP:HE3	1:B:1050:TRP:HA	1.84	0.43
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.47	0.43
1:B:1301:VAL:HG23	1:B:1363:MET:HG3	2.01	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:C:375:TRP:HB3	1:D:375:TRP:CD2	2.54	0.43
1:C:413:MET:O	1:C:416:ASP:HB2	2.17	0.43
1:C:50:SER:HB2	1:C:52:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:940:ASN:HB3	1:C:949:GLU:OE2	2.19	0.43
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	2.00	0.43
1:D:1078:ILE:HG23	1:D:1352:MET:CE	2.48	0.43
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.34	0.43
1:D:452:ILE:CD1	1:D:467:LYS:HA	2.48	0.43
1:D:472:GLN:HA	1:D:472:GLN:HE21	1.83	0.43
1:D:741:ASP:CG	1:D:793:ARG:HH11	2.21	0.43
1:E:1617:ILE:N	1:E:1617:ILE:CD1	2.78	0.43
1:E:564:LEU:O	1:E:567:ASN:HB2	2.18	0.43
1:E:869:ARG:O	1:E:903:GLY:HA3	2.17	0.43
1:F:1162:GLY:O	1:F:1354:SER:HA	2.18	0.43
1:F:667:ALA:O	1:F:670:LEU:HB3	2.19	0.43
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.43
2:G:1351:VAL:CG1	2:G:1352:VAL:N	2.81	0.43
2:G:1491:ARG:O	2:G:1492:LEU:HD23	2.19	0.43
2:G:1701:GLU:N	2:G:1704:MET:HE3	2.33	0.43
2:G:2009:PHE:CD2	2:G:2009:PHE:C	2.92	0.43
2:G:330:SER:N	2:H:1331:THR:HG22	2.33	0.43
2:G:670:MET:HE2	2:G:674:ILE:HD11	2.00	0.43
2:G:876:TRP:HD1	2:G:876:TRP:C	2.21	0.43
1:A:960:ARG:HH11	2:G:968:GLU:HB3	1.84	0.43
2:H:123:ALA:O	2:H:126:VAL:HG23	2.18	0.43
2:H:1873:ARG:NH1	2:H:2002:ASP:CB	2.81	0.43
2:H:349:PRO:O	2:H:392:THR:HA	2.19	0.43
2:H:763:LEU:HA	2:H:763:LEU:HD12	1.86	0.43
2:I:1002:GLU:C	2:I:1004:SER:H	2.22	0.43
2:I:1019:LEU:HA	2:I:1022:ARG:HD2	1.99	0.43
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.99	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.86	0.43
2:I:1356:ALA:HB3	2:I:1397:THR:CG2	2.47	0.43
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	2.00	0.43
2:I:1481:ILE:HD12	2:I:1515:LEU:CD2	2.49	0.43
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.01	0.43
2:I:317:TRP:CD1	2:I:454:ASP:CG	2.92	0.43
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.18	0.43
2:J:1472:TRP:CD2	2:J:1540:VAL:HG22	2.53	0.43
2:J:1919:ASN:HA	2:J:1919:ASN:HD22	1.59	0.43
2:J:1982:ALA:C	2:J:1984:PRO:HD3	2.39	0.43
2:J:460:ILE:O	2:J:486:ILE:N	2.50	0.43
2:J:521:VAL:O	2:J:521:VAL:HG12	2.18	0.43
2:J:613:VAL:H	2:J:614:PRO:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:712:ARG:O	2:J:738:PRO:HG2	2.19	0.43
2:J:77:ALA:O	2:J:139:ALA:HB1	2.19	0.43
2:K:1115:TYR:CE2	2:K:1174:ALA:HB2	2.54	0.43
2:K:1938:THR:HG22	2:K:1977:ARG:HA	2.01	0.43
2:K:352:SER:HB2	2:K:433:LEU:HD11	2.01	0.43
2:K:615:TRP:HB3	2:K:644:ALA:HB1	1.99	0.43
2:K:737:PHE:O	2:K:773:ASN:HB3	2.19	0.43
2:K:819:ALA:HA	2:K:1081:GLU:O	2.18	0.43
2:K:858:LEU:CD2	2:K:864:PRO:HA	2.48	0.43
2:K:890:LYS:HB2	2:K:890:LYS:HE3	1.81	0.43
2:K:937:ARG:CZ	2:K:941:LEU:HD11	2.48	0.43
2:L:611:THR:HG22	2:L:1051:GLU:OE2	2.19	0.43
2:L:481:LEU:C	2:L:483:ASP:H	2.22	0.43
2:L:664:TYR:C	2:L:666:ASN:H	2.21	0.43
1:A:1522:PHE:HB2	1:A:1557:PHE:CD1	2.53	0.43
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.18	0.43
1:C:1495:ARG:O	1:C:1496:ARG:HB3	2.18	0.43
1:C:491:SER:O	1:C:493:PRO:HD3	2.18	0.43
1:C:543:ASN:O	1:C:546:ARG:HB2	2.18	0.43
1:C:828:TRP:NE1	1:C:838:THR:HA	2.33	0.43
1:D:553:ARG:NH2	1:D:567:ASN:HD21	2.16	0.43
1:D:782:LYS:HZ3	1:D:786:LYS:HD2	1.82	0.43
1:E:1217:GLU:O	1:E:1299:ALA:HB1	2.19	0.43
1:E:1451:LYS:HG2	1:E:1454:ARG:HH22	1.83	0.43
1:E:1501:ALA:O	1:E:1504:ARG:HB2	2.19	0.43
1:E:881:LEU:HA	1:E:884:MET:CG	2.38	0.43
1:E:888:ILE:HA	1:E:891:LEU:HD12	2.00	0.43
1:E:960:ARG:HB3	2:K:969:ARG:HH12	1.82	0.43
1:F:1686:PRO:HB2	1:F:1713:PHE:CD1	2.54	0.43
1:F:382:ILE:H	1:F:382:ILE:HG13	1.61	0.43
1:F:408:GLN:HE22	1:F:1609:SER:H	1.66	0.43
1:F:538:ARG:CA	1:F:585:MET:HE1	2.40	0.43
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.18	0.43
2:G:1624:ALA:CB	2:G:1665:ILE:HD13	2.49	0.43
2:G:182:TYR:CD1	2:G:183:PHE:N	2.87	0.43
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.81	0.43
2:G:1920:TYR:HD2	2:G:1927:TYR:HE2	1.65	0.43
2:G:318:ILE:HA	2:G:451:ILE:HD13	2.00	0.43
2:G:461:PRO:HD2	2:G:464:SER:OG	2.19	0.43
2:G:635:TYR:CD2	2:G:641:MET:HG3	2.52	0.43
2:H:1113:ILE:HG22	2:H:1114:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1709:TYR:HE2	2:H:1716:LYS:HE2	1.84	0.43
2:H:1769:VAL:HG13	2:H:1774:SER:O	2.18	0.43
2:H:560:ASP:HB3	2:H:565:ALA:HB1	2.00	0.43
2:H:60:THR:HG22	2:H:62:GLU:HG3	2.00	0.43
2:H:821:GLU:HB2	2:H:1083:ILE:HD11	2.00	0.43
2:H:955:LEU:HD21	2:H:1026:LYS:O	2.18	0.43
2:I:1114:GLU:HB3	2:I:1169:TYR:CB	2.48	0.43
2:I:1175:MET:SD	2:I:1274:ILE:HD13	2.59	0.43
2:I:1238:GLY:O	2:I:1239:ASP:HB2	2.19	0.43
2:I:1465:ALA:O	2:I:1469:SER:HB3	2.19	0.43
2:I:1982:ALA:C	2:I:1984:PRO:HD3	2.39	0.43
2:I:2052:LYS:HG2	2:I:2052:LYS:H	1.44	0.43
2:I:601:PRO:HB2	2:I:626:TYR:CE2	2.53	0.43
2:I:796:TRP:CG	2:I:797:SER:N	2.86	0.43
2:I:95:HIS:CB	2:I:96:PRO:HD3	2.49	0.43
2:J:80:ILE:HG12	2:J:105:ILE:HG22	2.01	0.43
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.18	0.43
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.81	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.73	0.43
2:L:1142:ILE:HG13	2:L:1209:PRO:HG2	2.00	0.43
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.18	0.43
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.18	0.43
2:L:1356:ALA:HB3	2:L:1397:THR:CG2	2.47	0.43
2:L:1637:VAL:HG12	2:L:1679:LEU:HD22	2.01	0.43
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.99	0.43
2:L:1945:ILE:O	2:L:1949:GLN:HB2	2.19	0.43
2:L:1961:SER:O	2:L:1965:VAL:HG22	2.18	0.43
2:L:1982:ALA:C	2:L:1984:PRO:HD3	2.38	0.43
2:L:797:SER:O	2:L:802:TYR:HB2	2.19	0.43
1:A:1038:HIS:CE1	1:A:1042:LEU:CD2	3.01	0.43
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.54	0.43
1:A:556:HIS:HA	1:A:563:GLN:HE22	1.83	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.59	0.43
1:A:756:ILE:HG22	1:F:827:ARG:NH1	2.34	0.43
1:A:844:ILE:N	1:A:844:ILE:HD12	2.34	0.43
1:A:960:ARG:HG3	1:A:960:ARG:NH1	2.34	0.43
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.48	0.43
1:B:527:ALA:HB2	1:B:637:LEU:HD22	2.01	0.43
1:B:985:ARG:O	1:B:987:MET:HG2	2.19	0.43
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.52	0.43
1:C:405:TRP:CH2	1:C:1609:SER:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:573:VAL:O	1:C:577:LEU:HG	2.17	0.43
1:C:898:PHE:CD2	1:C:899:ALA:N	2.86	0.43
1:C:908:ILE:HA	1:C:909:PRO:HD3	1.87	0.43
1:C:968:PRO:CD	1:C:1374:PRO:HB3	2.49	0.43
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.49	0.43
1:D:449:GLN:O	1:D:450:TYR:C	2.57	0.43
1:D:557:ARG:HG3	1:D:557:ARG:NH1	2.01	0.43
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.43
1:E:1393:VAL:N	1:E:1394:PRO:HD3	2.33	0.43
1:E:46:GLU:HB3	1:E:80:CYS:HA	2.01	0.43
1:F:1102:ILE:HG13	1:F:1102:ILE:H	1.66	0.43
1:C:1148:LEU:CD2	1:F:1150:ILE:HG12	2.49	0.43
1:F:1393:VAL:HB	1:F:1394:PRO:HD3	2.01	0.43
1:F:1648:LYS:O	1:F:1652:GLU:HB2	2.19	0.43
1:F:414:TYR:CD2	1:F:414:TYR:C	2.91	0.43
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.43
1:F:620:LYS:HE3	1:F:626:TRP:CZ2	2.54	0.43
1:F:801:LEU:HD13	1:F:822:GLU:HG2	1.99	0.43
2:G:1026:LYS:HG2	2:G:1027:PRO:HD2	2.00	0.43
2:G:1447:GLN:HB3	2:G:1496:VAL:HG13	1.99	0.43
2:G:358:ARG:HB2	2:G:389:PHE:CE2	2.53	0.43
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.53	0.43
2:H:1028:VAL:HG13	2:H:1030:PHE:CE2	2.54	0.43
2:H:912:LYS:HG2	2:H:1029:PRO:C	2.38	0.43
2:H:1265:TYR:HE1	2:H:1267:PRO:HG3	1.76	0.43
2:H:162:ALA:CA	2:H:167:VAL:HG22	2.48	0.43
2:H:223:LYS:HB3	2:H:242:TYR:CZ	2.54	0.43
2:H:251:PRO:CG	2:H:316:PHE:HA	2.45	0.43
2:H:607:GLY:HA2	2:H:612:THR:HG21	2.00	0.43
2:H:690:LEU:HD22	2:H:691:THR:H	1.82	0.43
2:I:123:ALA:O	2:I:126:VAL:HG23	2.18	0.43
2:I:1370:LEU:CD1	2:I:1373:LEU:HD13	2.48	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1472:TRP:CE2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1961:SER:O	2:I:1965:VAL:HG22	2.17	0.43
2:I:690:LEU:HD22	2:I:691:THR:N	2.34	0.43
2:I:578:PRO:HG3	2:I:792:LEU:O	2.18	0.43
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.83	0.43
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.53	0.43
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1903:VAL:HG13	2:J:1942:VAL:HG11	2.01	0.43
2:J:379:GLY:O	2:J:391:VAL:HG13	2.18	0.43
2:J:472:THR:HG23	2:J:499:VAL:HA	1.99	0.43
2:K:80:ILE:HG12	2:K:105:ILE:CG2	2.49	0.43
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.53	0.43
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.53	0.43
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.18	0.43
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	2.00	0.43
2:K:174:GLY:HA2	2:K:524:ILE:HG12	2.01	0.43
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.53	0.43
2:K:276:LEU:HD21	2:K:296:ALA:HA	2.00	0.43
2:K:349:PRO:O	2:K:392:THR:HA	2.18	0.43
2:K:595:SER:CB	2:K:602:PRO:HG3	2.30	0.43
2:K:740:ILE:HG22	2:K:742:GLN:HG3	2.01	0.43
2:L:1553:GLN:HB3	2:L:1554:PRO:CD	2.48	0.43
1:F:11:TYR:CD1	2:L:2027:LYS:HG2	2.54	0.43
2:L:256:VAL:O	2:L:260:HIS:HD2	2.01	0.43
2:L:741:LEU:O	2:L:741:LEU:CG	2.64	0.43
2:L:594:MET:SD	2:L:809:GLY:HA3	2.58	0.43
1:A:1051:VAL:HG13	1:A:1057:GLU:O	2.19	0.43
1:A:88:ILE:HG21	2:G:1821:MET:HE1	2.00	0.43
1:B:1011:ARG:NH1	1:B:1012:TRP:HA	2.33	0.43
1:B:746:PHE:CD2	3:B:1901:NAP:H4D	2.53	0.43
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.49	0.43
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.52	0.43
1:C:1663:LYS:HE2	2:I:1005:THR:O	2.19	0.43
1:C:916:THR:HA	1:C:919:ARG:HB2	2.01	0.43
1:C:968:PRO:HG3	1:C:1376:TYR:CE1	2.53	0.43
1:C:985:ARG:O	1:C:987:MET:HG2	2.18	0.43
1:D:1217:GLU:O	1:D:1299:ALA:HB1	2.19	0.43
1:D:452:ILE:HA	1:D:452:ILE:HD13	1.87	0.43
1:D:662:ALA:HA	1:D:694:TYR:CZ	2.53	0.43
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.31	0.43
1:E:4:GLU:HG3	1:E:4:GLU:H	1.53	0.43
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.49	0.43
2:G:1171:TRP:CG	2:G:1172:ARG:N	2.86	0.43
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.43
2:G:1248:GLU:HB2	2:G:1596:PHE:CE1	2.54	0.43
2:G:1749:PHE:CD2	2:G:1758:ARG:HB3	2.54	0.43
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.18	0.43
2:G:1961:SER:O	2:G:1965:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:310:ARG:HH12	2:G:459:LYS:H	1.67	0.43
2:G:462:ALA:HB3	2:G:483:ASP:HA	2.00	0.43
2:G:610:PRO:HD2	4:G:2101:FMN:C6	2.28	0.43
2:H:1229:VAL:CG1	2:H:1230:LYS:N	2.81	0.43
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.18	0.43
2:H:1920:TYR:HD2	2:H:1927:TYR:HE2	1.66	0.43
2:H:196:PHE:N	2:H:196:PHE:HD2	2.16	0.43
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.19	0.43
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.00	0.43
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.47	0.43
2:I:1047:LEU:H	2:I:1047:LEU:HD12	1.83	0.43
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.66	0.43
2:I:1804:GLN:CB	2:I:1861:PHE:HE1	2.32	0.43
2:I:22:ARG:HD2	2:I:39:THR:HA	2.00	0.43
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.49	0.43
2:J:1481:ILE:HG13	2:J:1481:ILE:O	2.19	0.43
2:J:187:ARG:NH2	2:J:234:PRO:HA	2.33	0.43
2:J:1920:TYR:HD2	2:J:1927:TYR:HE2	1.65	0.43
2:J:1914:LEU:O	2:J:1931:GLY:HA3	2.17	0.43
2:J:1945:ILE:HG22	2:J:1946:LEU:N	2.33	0.43
2:J:2039:TYR:C	2:J:2039:TYR:CD2	2.91	0.43
2:J:256:VAL:O	2:J:260:HIS:HD2	2.01	0.43
2:J:382:LEU:HG	2:J:390:VAL:HB	2.00	0.43
2:J:372:LEU:CD1	2:J:397:SER:HB2	2.49	0.43
2:J:700:GLU:HA	2:J:703:ASN:HB2	2.01	0.43
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.71	0.43
2:K:1237:VAL:O	2:K:1241:GLU:HB2	2.19	0.43
2:K:1383:VAL:CG2	2:K:1428:TYR:HE1	2.30	0.43
2:K:1726:PHE:CE1	2:K:1857:VAL:HB	2.54	0.43
2:K:1851:MET:HB3	2:K:1851:MET:HE3	1.83	0.43
2:K:187:ARG:NH2	2:K:234:PRO:HA	2.33	0.43
2:K:1920:TYR:HD2	2:K:1927:TYR:HE2	1.65	0.43
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.67	0.43
2:K:317:TRP:CD1	2:K:454:ASP:OD2	2.72	0.43
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.43
2:K:962:PHE:O	2:K:965:ARG:HB3	2.18	0.43
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	2.01	0.43
2:L:1248:GLU:OE2	2:L:1250:ARG:NE	2.50	0.43
2:L:1481:ILE:HD12	2:L:1515:LEU:CD2	2.49	0.43
2:L:2039:TYR:CD2	2:L:2039:TYR:C	2.91	0.43
2:L:311:ALA:O	2:L:314:LEU:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:36:LEU:HA	2:L:36:LEU:HD12	1.90	0.43
2:L:838:VAL:HG12	2:L:839:ASP:N	2.33	0.43
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.81	0.43
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.83	0.43
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.92	0.43
1:B:1078:ILE:HG23	1:B:1352:MET:HE3	2.01	0.43
1:B:1191:LEU:HD23	1:B:1191:LEU:HA	1.77	0.43
1:B:1522:PHE:CD2	1:B:1534:GLU:HB3	2.53	0.43
1:B:414:TYR:CD2	1:B:414:TYR:C	2.93	0.43
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.87	0.43
1:B:667:ALA:O	1:B:671:GLN:HG3	2.18	0.43
1:B:960:ARG:HH11	1:B:960:ARG:HG3	1.84	0.43
1:C:1617:ILE:N	1:C:1617:ILE:CD1	2.77	0.43
1:C:401:SER:O	1:C:405:TRP:CD1	2.72	0.43
1:D:27:ARG:HG2	1:D:27:ARG:H	1.42	0.43
1:D:414:TYR:C	1:D:414:TYR:CD2	2.92	0.43
1:D:440:SER:HB3	1:D:481:LEU:CD2	2.40	0.43
1:D:673:LEU:HD21	1:D:884:MET:HE3	2.00	0.43
1:E:1011:ARG:HH11	1:E:1012:TRP:HA	1.83	0.43
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.18	0.43
1:C:1488:SER:HB2	1:F:1480:ARG:NH2	2.34	0.43
1:F:1525:THR:O	1:F:1526:SER:HB3	2.19	0.43
1:F:756:ILE:HA	1:F:759:ILE:CD1	2.46	0.43
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.19	0.43
2:G:1551:ILE:CG2	2:G:1552:GLU:HG3	2.49	0.43
2:G:1851:MET:CE	2:G:2025:ILE:HG12	2.48	0.43
2:G:2031:ASP:C	2:G:2033:SER:N	2.72	0.43
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.54	0.43
2:G:441:SER:C	2:G:443:TYR:H	2.22	0.43
2:G:490:LEU:HD23	2:G:493:MET:SD	2.59	0.43
2:G:501:TRP:CD1	2:G:501:TRP:C	2.89	0.43
2:H:45:ALA:HB2	2:H:101:VAL:HG22	1.99	0.43
2:H:501:TRP:CZ2	2:H:524:ILE:HG21	2.53	0.43
2:I:1083:ILE:H	2:I:1083:ILE:HG13	1.51	0.43
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.33	0.43
2:I:1269:ALA:HB1	2:I:1271:TYR:CE1	2.53	0.43
2:I:1337:ASP:HB2	2:I:1342:PHE:CD1	2.54	0.43
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.18	0.43
1:C:22:PHE:O	2:I:2006:HIS:HA	2.18	0.43
2:I:193:TYR:HD1	2:I:263:ILE:HD13	1.81	0.43
2:I:358:ARG:HB2	2:I:389:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:60:THR:HG22	2:I:62:GLU:H	1.84	0.43
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.48	0.43
2:J:1133:LEU:HD12	2:J:1146:LEU:HD21	2.00	0.43
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.19	0.43
2:J:705:TYR:HA	2:J:709:LEU:HD21	2.00	0.43
2:J:950:TRP:CE2	2:J:956:LYS:HG3	2.53	0.43
2:K:1067:LEU:O	2:K:1068:GLN:HG2	2.18	0.43
2:K:1175:MET:SD	2:K:1274:ILE:HD13	2.59	0.43
2:K:1067:LEU:CB	4:K:2101:FMN:HM82	2.49	0.43
2:K:350:MET:SD	2:K:392:THR:CG2	3.07	0.43
2:K:41:LEU:HD13	2:K:100:GLU:HB3	2.01	0.43
2:L:187:ARG:HH22	2:L:234:PRO:HA	1.84	0.43
2:L:1067:LEU:HB3	4:L:2101:FMN:HM82	2.01	0.43
2:L:350:MET:SD	2:L:392:THR:CG2	3.07	0.43
2:L:476:GLN:HG2	2:L:476:GLN:H	1.71	0.43
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.82	0.43
2:L:946:HIS:CE1	2:L:947:GLU:HG3	2.54	0.43
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.01	0.43
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.73	0.43
1:B:1579:GLN:O	1:B:1583:THR:HG23	2.18	0.43
1:B:1584:GLY:HA2	1:B:1617:ILE:HD12	1.99	0.43
1:B:445:LEU:O	1:B:448:MET:HB2	2.19	0.43
1:B:427:ARG:HD2	1:B:490:VAL:HG12	2.01	0.43
1:C:28:TRP:HE1	1:C:32:GLN:NE2	2.16	0.43
1:C:526:MET:CE	1:C:615:LEU:HG	2.49	0.43
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.83	0.43
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	2.01	0.43
1:D:876:MET:O	1:D:876:MET:HE3	2.19	0.43
1:C:1274:LYS:HG2	1:F:1289:VAL:CG2	2.49	0.43
1:F:1338:GLY:C	1:F:1340:MET:N	2.72	0.43
1:F:759:ILE:N	1:F:759:ILE:HD12	2.33	0.43
1:F:746:PHE:CD1	1:F:800:PRO:HG3	2.53	0.43
2:G:1637:VAL:HG12	2:G:1679:LEU:HD22	2.00	0.43
2:G:1948:MET:HG2	2:G:1993:PHE:CZ	2.54	0.43
2:G:245:SER:HA	2:G:436:THR:OG1	2.19	0.43
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.76	0.43
2:G:44:GLN:O	2:G:48:LEU:HG	2.19	0.43
2:G:31:LEU:HB2	2:G:72:VAL:HG22	2.00	0.43
2:H:2058:VAL:O	2:H:2062:THR:HB	2.18	0.43
2:H:226:ASP:OD2	2:H:229:GLN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:511:THR:C	2:H:512:HIS:CD2	2.92	0.43
2:H:616:ASP:OD2	2:H:823:HIS:NE2	2.52	0.43
2:H:726:GLN:O	2:H:730:ILE:HG12	2.18	0.43
2:H:821:GLU:OE2	2:H:1083:ILE:HG13	2.18	0.43
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.48	0.43
2:I:1103:TYR:C	2:I:1104:ASP:OD1	2.57	0.43
2:I:1161:MET:HE1	2:I:1193:LYS:HG2	2.00	0.43
2:I:1551:ILE:CG2	2:I:1552:GLU:HG3	2.48	0.43
2:I:1553:GLN:HB3	2:I:1554:PRO:CD	2.48	0.43
2:I:388:ASN:C	2:I:388:ASN:ND2	2.72	0.43
2:I:422:THR:HG21	2:I:844:GLU:HG3	2.00	0.43
2:I:465:LEU:HB2	2:I:479:ARG:CG	2.48	0.43
2:I:582:LYS:HA	2:I:587:GLN:O	2.19	0.43
2:I:718:PRO:HG3	2:I:727:VAL:CG2	2.49	0.43
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.18	0.43
2:J:1009:ASN:HB2	2:J:1012:ASP:OD2	2.19	0.43
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.54	0.43
2:J:1951:ILE:H	2:J:1951:ILE:HD12	1.84	0.43
1:D:8:GLU:HG2	2:J:2027:LYS:HD3	2.01	0.43
2:K:1344:ALA:N	2:K:1389:LEU:O	2.46	0.43
2:K:1447:GLN:HB3	2:K:1496:VAL:HG13	2.00	0.43
2:K:357:THR:HG22	2:K:359:SER:H	1.83	0.43
2:K:501:TRP:CZ2	2:K:528:THR:CG2	3.01	0.43
2:K:174:GLY:HA3	2:K:518:PRO:HD2	2.01	0.43
2:K:616:ASP:HB2	2:K:617:PHE:H	1.73	0.43
2:K:765:TYR:CD2	2:K:805:MET:HG2	2.54	0.43
2:L:1749:PHE:CD2	2:L:1758:ARG:HB3	2.53	0.43
2:L:604:MET:HE1	2:L:777:VAL:HG11	2.00	0.43
1:A:1686:PRO:HD2	1:A:1687:TYR:CE2	2.54	0.42
1:A:709:LEU:HD23	1:A:709:LEU:HA	1.82	0.42
1:B:1703:VAL:HG13	1:B:1712:LYS:O	2.19	0.42
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.48	0.42
1:B:756:ILE:HA	1:B:759:ILE:CD1	2.48	0.42
1:C:1213:VAL:HG22	1:C:1300:ARG:CZ	2.48	0.42
1:C:1494:TRP:HE1	1:C:1509:THR:HG21	1.84	0.42
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.00	0.42
1:D:1057:GLU:HA	1:D:1058:PRO:HD3	1.88	0.42
1:D:1175:VAL:HA	1:D:1176:PRO:HD3	1.80	0.42
1:D:1617:ILE:CD1	1:D:1617:ILE:N	2.80	0.42
1:D:1652:GLU:O	1:D:1656:VAL:HG23	2.18	0.42
1:E:1205:ASP:OD2	1:E:1207:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2:ARG:HB2	1:E:5:VAL:HB	2.01	0.42
1:B:551:LEU:HD11	1:E:565:GLN:HG3	2.01	0.42
1:F:1051:VAL:HG13	1:F:1057:GLU:O	2.19	0.42
1:F:1063:ASP:O	1:F:1064:VAL:C	2.56	0.42
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.83	0.42
2:G:1332:GLY:C	2:G:1334:ALA:H	2.21	0.42
2:G:2009:PHE:HD2	2:G:2009:PHE:C	2.22	0.42
2:G:41:LEU:HD13	2:G:100:GLU:HB3	2.01	0.42
2:G:560:ASP:HB3	2:G:565:ALA:HB1	2.01	0.42
2:G:717:LYS:HD2	4:G:2101:FMN:O2	2.18	0.42
2:G:785:SER:HB3	2:G:1090:ILE:HG23	2.01	0.42
2:G:818:THR:HA	2:G:829:LYS:HE2	2.01	0.42
2:H:1472:TRP:CD2	2:H:1540:VAL:HG22	2.54	0.42
2:H:1662:ARG:NH1	2:H:1684:GLU:OE1	2.52	0.42
2:H:174:GLY:HA2	2:H:524:ILE:CG1	2.49	0.42
2:H:221:TYR:CD2	2:H:225:LEU:HD22	2.54	0.42
2:H:646:SER:O	2:H:649:GLU:HG2	2.18	0.42
2:H:700:GLU:HA	2:H:703:ASN:HB2	2.01	0.42
2:H:704:GLU:OE1	2:H:704:GLU:HA	2.19	0.42
2:H:754:PHE:N	2:H:754:PHE:CD1	2.87	0.42
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.53	0.42
2:I:45:ALA:HB2	2:I:101:VAL:HG22	2.00	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.19	0.42
2:I:462:ALA:HB3	2:I:483:ASP:HA	2.00	0.42
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.39	0.42
2:J:1278:MET:HA	2:J:1281:ARG:HB2	2.00	0.42
2:J:1706:MET:HE2	2:J:1738:VAL:HG11	2.01	0.42
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	2.01	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.00	0.42
2:J:462:ALA:HB3	2:J:483:ASP:HA	2.00	0.42
2:J:720:SER:HB3	2:J:723:ALA:HB2	2.00	0.42
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.79	0.42
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.18	0.42
2:K:308:ALA:O	2:K:312:VAL:HG23	2.19	0.42
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.83	0.42
2:K:472:THR:CG2	2:K:499:VAL:HG22	2.49	0.42
2:K:520:GLY:C	2:K:522:SER:H	2.21	0.42
2:K:525:GLY:O	2:K:529:ASN:HB2	2.19	0.42
2:K:585:VAL:HG12	2:K:585:VAL:O	2.18	0.42
2:K:652:ILE:O	2:K:654:PRO:HD3	2.19	0.42
2:L:1602:LEU:HA	2:L:1602:LEU:HD12	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2052:LYS:H	2:L:2052:LYS:HG2	1.42	0.42
2:L:41:LEU:HD13	2:L:100:GLU:HB3	2.01	0.42
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.61	0.42
2:L:764:MET:O	2:L:765:TYR:C	2.57	0.42
1:A:1205:ASP:OD2	1:A:1207:TYR:HB2	2.19	0.42
1:A:1330:GLU:O	1:A:1335:ARG:HB2	2.20	0.42
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.55	0.42
1:A:974:ASP:O	1:A:979:PRO:HD3	2.20	0.42
1:B:1466:TYR:CE2	1:B:1470:ARG:HG3	2.54	0.42
1:B:1521:SER:HB2	1:B:1577:CYS:SG	2.59	0.42
1:B:352:ARG:HE	1:B:352:ARG:HB2	1.58	0.42
1:B:687:PHE:C	1:B:687:PHE:CD2	2.92	0.42
1:B:890:ASN:OD1	2:K:1755:LYS:HE2	2.19	0.42
1:C:1599:MET:HA	1:C:1602:PHE:HD2	1.83	0.42
1:C:27:ARG:HG2	1:C:27:ARG:H	1.40	0.42
1:C:430:VAL:HG12	1:C:434:ILE:HD11	2.00	0.42
1:D:963:LEU:HD23	1:D:1023:GLU:HB3	2.00	0.42
1:D:11:TYR:CD1	2:J:2027:LYS:HG2	2.54	0.42
1:D:1522:PHE:CD2	1:D:1534:GLU:HB3	2.54	0.42
1:D:340:LEU:HD23	1:D:340:LEU:O	2.18	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.18	0.42
1:D:407:ARG:CZ	1:D:1606:VAL:HG23	2.49	0.42
1:D:457:THR:HG22	1:D:464:GLN:HA	2.01	0.42
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.53	0.42
1:D:755:GLU:C	1:D:757:ASP:N	2.72	0.42
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	2.01	0.42
1:E:1491:ASN:ND2	1:E:1491:ASN:N	2.67	0.42
1:E:414:TYR:CE2	1:E:418:ILE:CD1	3.02	0.42
1:E:911:LEU:O	1:E:911:LEU:HD12	2.19	0.42
2:G:1481:ILE:O	2:G:1481:ILE:HG13	2.18	0.42
2:G:1575:ALA:O	2:G:1576:SER:HB3	2.19	0.42
2:G:1734:ILE:O	2:G:1738:VAL:HG23	2.18	0.42
2:G:1740:ASN:O	2:G:1742:PRO:HD3	2.19	0.42
2:G:174:GLY:HA2	2:G:524:ILE:CG1	2.49	0.42
2:G:646:SER:O	2:G:649:GLU:HG2	2.19	0.42
2:H:1009:ASN:HD22	2:H:1009:ASN:HA	1.53	0.42
2:H:1346:MET:CE	2:H:1617:ARG:NH2	2.82	0.42
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.80	0.42
2:H:938:MET:HE1	2:H:959:THR:HA	2.01	0.42
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.40	0.42
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1236:LEU:HD12	2:I:1241:GLU:O	2.18	0.42
2:I:1418:THR:HG23	2:I:1428:TYR:CE2	2.54	0.42
2:I:1646:ASN:HD22	2:I:1646:ASN:HA	1.69	0.42
2:I:1934:ARG:O	2:I:1938:THR:HG23	2.19	0.42
2:I:1945:ILE:O	2:I:1949:GLN:HB2	2.19	0.42
2:I:1951:ILE:H	2:I:1951:ILE:HD12	1.82	0.42
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	2.02	0.42
2:I:22:ARG:HG3	2:I:39:THR:HA	2.00	0.42
2:I:468:PRO:HA	2:I:479:ARG:HD3	2.01	0.42
2:J:1515:LEU:CB	2:J:1525:VAL:HG21	2.50	0.42
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.50	0.42
2:J:205:ALA:O	2:J:209:GLN:HG3	2.19	0.42
2:J:26:LEU:HD23	2:J:49:LYS:HG3	2.01	0.42
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.01	0.42
2:J:882:LYS:HD3	2:J:898:ARG:CZ	2.49	0.42
2:K:1180:VAL:CG1	2:K:1188:GLN:H	2.29	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:H	1.84	0.42
2:K:1658:MET:HE3	2:K:1658:MET:HB3	1.90	0.42
2:K:1795:SER:CB	2:K:1799:LEU:HD12	2.47	0.42
2:K:462:ALA:HB3	2:K:483:ASP:H	1.83	0.42
2:K:723:ALA:O	2:K:726:GLN:HB2	2.19	0.42
2:L:1000:TYR:HA	2:L:1001:PRO:HD2	1.72	0.42
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.01	0.42
2:L:1515:LEU:CB	2:L:1525:VAL:HG21	2.49	0.42
2:L:1560:PRO:O	2:L:1562:PRO:HD3	2.18	0.42
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.49	0.42
2:L:342:ASN:HB3	2:L:406:ARG:HD3	2.01	0.42
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.99	0.42
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.32	0.42
1:A:741:ASP:CG	1:A:793:ARG:HH11	2.23	0.42
1:B:1674:ILE:HG22	1:B:1675:ASN:OD1	2.19	0.42
1:B:968:PRO:HG3	1:B:1376:TYR:CE1	2.54	0.42
1:C:1107:GLU:HA	1:C:1108:PRO:HD3	1.72	0.42
1:C:1207:TYR:CE2	1:C:1682:LYS:HD2	2.53	0.42
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.49	0.42
1:C:452:ILE:HA	1:C:452:ILE:HD13	1.88	0.42
1:C:547:SER:HA	1:C:550:LYS:HB2	2.01	0.42
1:C:756:ILE:HA	1:C:759:ILE:CD1	2.47	0.42
1:D:613:PRO:C	1:D:615:LEU:N	2.72	0.42
1:D:623:PHE:O	1:D:624:GLY:C	2.57	0.42
1:D:904:GLY:C	1:D:906:GLN:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:633:THR:O	1:E:637:LEU:HB2	2.20	0.42
1:F:1154:LEU:HD23	1:F:1154:LEU:HA	1.72	0.42
1:F:443:LEU:H	1:F:443:LEU:HD12	1.84	0.42
1:F:612:ILE:HD12	1:F:907:PHE:CZ	2.38	0.42
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.52	0.42
2:G:1383:VAL:CG2	2:G:1428:TYR:HE1	2.30	0.42
2:G:1766:PHE:HB2	2:G:1780:ILE:HG12	2.02	0.42
2:G:2031:ASP:HB3	2:G:2033:SER:OG	2.19	0.42
2:G:276:LEU:O	2:G:467:ILE:CD1	2.67	0.42
2:G:174:GLY:HA3	2:G:518:PRO:HD2	2.02	0.42
2:G:615:TRP:HB2	2:G:648:ILE:HG13	2.01	0.42
2:G:673:GLN:O	2:G:676:LEU:HB3	2.19	0.42
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.18	0.42
2:H:1321:VAL:HG12	2:H:1322:ALA:N	2.34	0.42
2:H:1380:TYR:HD2	2:H:1429:VAL:HG22	1.81	0.42
2:H:1470:LYS:HA	2:H:1470:LYS:HD3	1.90	0.42
2:H:290:VAL:CG1	2:H:314:LEU:HD23	2.48	0.42
2:H:690:LEU:HD22	2:H:691:THR:N	2.33	0.42
2:H:857:VAL:CG1	2:H:876:TRP:CD1	3.02	0.42
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.02	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.19	0.42
2:I:1102:LEU:HA	2:I:1102:LEU:HD23	1.83	0.42
2:I:1241:GLU:HA	2:I:1263:PHE:O	2.19	0.42
2:I:1447:GLN:HB3	2:I:1496:VAL:HG13	2.01	0.42
2:I:1594:ARG:NH1	2:I:1595:VAL:HG13	2.34	0.42
2:I:1910:VAL:HG13	2:I:1974:GLN:HE22	1.84	0.42
2:I:1067:LEU:HB3	4:I:2101:FMN:HM82	2.01	0.42
2:I:472:THR:HG23	2:I:499:VAL:HA	2.02	0.42
2:I:705:TYR:HA	2:I:709:LEU:HD21	2.01	0.42
2:I:723:ALA:O	2:I:726:GLN:HB2	2.19	0.42
2:J:1299:VAL:HG22	2:J:1301:PHE:CG	2.54	0.42
2:J:2073:ASN:O	2:J:2076:LYS:N	2.51	0.42
2:J:317:TRP:CD1	2:J:454:ASP:CG	2.92	0.42
2:J:914:TRP:CD1	2:J:916:GLY:N	2.87	0.42
2:K:1084:LYS:O	2:K:1088:ASP:CB	2.66	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.19	0.42
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.50	0.42
2:K:1910:VAL:HG13	2:K:1974:GLN:HE22	1.85	0.42
2:K:595:SER:HB3	2:K:602:PRO:HD3	2.00	0.42
2:K:737:PHE:O	2:K:739:ILE:HG13	2.19	0.42
2:K:743:TRP:CZ2	2:K:757:PHE:HA	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1050:SER:HA	2:L:1064:THR:HG21	2.01	0.42
2:L:1113:ILE:HG22	2:L:1114:GLU:N	2.33	0.42
2:L:1400:GLN:HG3	2:L:1448:ARG:HH12	1.83	0.42
2:L:2009:PHE:HD2	2:L:2009:PHE:O	2.02	0.42
2:L:31:LEU:HD13	2:L:75:LEU:HG	2.00	0.42
1:A:1369:LEU:HD11	1:A:1642:LEU:HD21	2.00	0.42
1:A:983:GLN:O	1:A:1418:ILE:HD13	2.19	0.42
1:A:1599:MET:HA	1:A:1602:PHE:HD2	1.85	0.42
1:A:363:GLU:O	1:A:366:LYS:HB2	2.19	0.42
1:A:45:VAL:HB	2:G:1692:TYR:HD2	1.84	0.42
1:A:626:TRP:CE3	1:A:898:PHE:HB2	2.55	0.42
1:A:902:ASN:OD1	1:A:905:LEU:HD12	2.19	0.42
1:B:1060:ASP:HB2	1:B:1063:ASP:OD2	2.19	0.42
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.54	0.42
1:B:336:PHE:HA	1:B:339:GLN:HB2	2.01	0.42
1:B:427:ARG:O	1:B:430:VAL:HB	2.19	0.42
1:B:715:ASN:ND2	3:B:1901:NAP:H62A	2.18	0.42
1:B:767:HIS:NE2	1:B:771:LEU:HD22	2.33	0.42
1:C:1080:LEU:HA	1:C:1080:LEU:HD23	1.84	0.42
1:C:746:PHE:CD2	3:C:1901:NAP:H4D	2.54	0.42
1:D:1051:VAL:HG13	1:D:1057:GLU:O	2.18	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.00	0.42
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.00	0.42
1:D:427:ARG:HD2	1:D:490:VAL:HG12	2.00	0.42
1:D:751:GLU:OE1	1:D:770:MET:HE1	2.20	0.42
1:E:1321:MET:HB3	1:E:1321:MET:HE2	1.87	0.42
1:E:1527:THR:OG1	1:E:1530:ASN:HB3	2.20	0.42
1:E:1623:THR:CG2	1:E:1633:GLN:HB2	2.48	0.42
1:F:1674:ILE:HD12	2:L:1010:ALA:CB	2.48	0.42
2:G:1346:MET:CE	2:G:1617:ARG:HH21	2.33	0.42
2:G:1639:MET:HB3	2:G:1639:MET:HE3	1.86	0.42
2:G:2058:VAL:O	2:G:2062:THR:HB	2.19	0.42
2:G:416:GLN:C	2:G:418:ARG:H	2.22	0.42
2:G:511:THR:O	2:G:512:HIS:CD2	2.72	0.42
2:G:595:SER:HB3	2:G:602:PRO:HD3	2.00	0.42
2:G:785:SER:O	2:G:789:TYR:HB2	2.20	0.42
2:H:1358:THR:O	2:H:1361:ILE:HG13	2.20	0.42
2:H:1359:LYS:O	2:H:1362:PHE:HD1	2.02	0.42
2:H:378:ILE:O	2:H:378:ILE:HG22	2.19	0.42
2:H:173:PHE:CE2	2:H:516:PHE:HB2	2.53	0.42
2:I:1337:ASP:CA	2:I:1342:PHE:HD1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1289:TYR:CD2	2:I:1370:LEU:HD23	2.52	0.42
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.01	0.42
2:I:1886:VAL:CG1	2:I:1900:LEU:HD11	2.50	0.42
2:I:226:ASP:OD2	2:I:229:GLN:HB2	2.19	0.42
2:I:416:GLN:HE22	2:I:425:LYS:H	1.67	0.42
2:I:534:GLY:O	2:I:571:ASP:HA	2.19	0.42
2:I:611:THR:HG21	2:I:817:MET:CE	2.49	0.42
2:I:916:GLY:O	2:I:924:VAL:HG23	2.19	0.42
2:J:1389:LEU:N	2:J:1389:LEU:HD23	2.34	0.42
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	2.19	0.42
2:J:2058:VAL:O	2:J:2062:THR:HB	2.19	0.42
2:J:433:LEU:HA	2:J:434:PRO:HD3	1.81	0.42
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.53	0.42
2:K:1026:LYS:HG2	2:K:1027:PRO:HD2	2.01	0.42
2:K:1114:GLU:HB3	2:K:1169:TYR:CB	2.46	0.42
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.42
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.49	0.42
2:K:60:THR:HG22	2:K:62:GLU:H	1.84	0.42
2:K:615:TRP:HB2	2:K:648:ILE:HG13	2.01	0.42
2:K:887:ASP:O	2:K:888:ARG:C	2.57	0.42
2:L:1009:ASN:HA	2:L:1009:ASN:HD22	1.56	0.42
2:L:1769:VAL:HG13	2:L:1774:SER:C	2.39	0.42
2:L:196:PHE:CD1	2:L:266:LYS:HB3	2.54	0.42
2:L:420:PRO:HG3	2:L:847:TYR:CE1	2.55	0.42
2:L:685:VAL:HG13	2:L:686:PRO:HD2	2.01	0.42
2:L:709:LEU:HD23	2:L:709:LEU:N	2.29	0.42
1:A:1495:ARG:O	1:A:1496:ARG:HB3	2.18	0.42
1:A:1574:LEU:HA	1:A:1574:LEU:HD12	1.86	0.42
1:A:49:PRO:HG2	2:G:1810:LEU:HD21	2.02	0.42
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.49	0.42
1:B:1167:GLY:O	1:B:1172:ARG:NH1	2.53	0.42
1:B:337:LYS:O	1:B:341:GLU:HG2	2.20	0.42
1:B:546:ARG:HH11	1:B:631:LYS:NZ	2.14	0.42
1:B:662:ALA:HA	1:B:694:TYR:OH	2.20	0.42
1:B:93:GLU:HA	1:B:94:PRO:HD3	1.82	0.42
1:C:1494:TRP:CG	1:C:1505:GLY:HA3	2.53	0.42
1:C:584:ILE:H	1:C:584:ILE:HG12	1.67	0.42
1:C:848:ARG:HG2	1:C:871:PHE:O	2.19	0.42
1:D:1011:ARG:NH1	1:D:1012:TRP:HA	2.34	0.42
1:D:1527:THR:OG1	1:D:1530:ASN:HB3	2.19	0.42
1:D:430:VAL:HG12	1:D:434:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:LEU:HB2	1:D:579:MET:HG3	2.00	0.42
1:D:633:THR:O	1:D:637:LEU:HB2	2.19	0.42
1:D:960:ARG:HH11	1:D:960:ARG:HG3	1.85	0.42
1:E:1129:ILE:HG22	1:E:1139:THR:O	2.19	0.42
1:E:1162:GLY:O	1:E:1354:SER:HA	2.19	0.42
1:E:1647:ASP:C	1:E:1649:ALA:N	2.72	0.42
1:E:427:ARG:O	1:E:430:VAL:HB	2.19	0.42
1:E:539:THR:HA	1:E:542:GLN:HE21	1.85	0.42
1:E:881:LEU:O	1:E:884:MET:HB2	2.19	0.42
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.19	0.42
1:C:1480:ARG:HH21	1:F:1488:SER:HB2	1.85	0.42
1:F:336:PHE:HA	1:F:339:GLN:HB2	2.02	0.42
1:F:631:LYS:O	1:F:635:ILE:HG22	2.19	0.42
1:F:883:LEU:HD23	1:F:883:LEU:N	2.33	0.42
2:G:1104:ASP:N	2:G:1104:ASP:OD1	2.52	0.42
2:G:1106:LYS:HA	2:G:1106:LYS:HD3	1.75	0.42
2:G:1236:LEU:HD12	2:G:1242:ILE:HA	2.02	0.42
2:G:1389:LEU:HD23	2:G:1389:LEU:N	2.34	0.42
2:G:1981:GLU:O	2:G:1984:PRO:HG3	2.20	0.42
2:G:290:VAL:CG1	2:G:314:LEU:HD23	2.48	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.85	0.42
2:G:765:TYR:CD2	2:G:805:MET:HG2	2.54	0.42
2:H:80:ILE:HG12	2:H:105:ILE:HG22	2.01	0.42
2:H:1236:LEU:HD12	2:H:1241:GLU:O	2.19	0.42
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.73	0.42
2:H:1520:LYS:HD2	2:H:1520:LYS:N	2.34	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	2.02	0.42
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.89	0.42
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.99	0.42
2:H:743:TRP:CD1	2:H:761:ILE:HD11	2.54	0.42
2:H:828:ALA:O	2:H:832:ILE:HG13	2.19	0.42
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.19	0.42
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.19	0.42
2:I:1911:THR:HG21	2:I:1977:ARG:HB2	2.02	0.42
2:I:41:LEU:HD13	2:I:100:GLU:HB3	2.02	0.42
2:I:506:VAL:CG1	2:I:506:VAL:O	2.61	0.42
2:I:763:LEU:HD12	2:I:763:LEU:HA	1.88	0.42
2:I:872:GLY:HA2	2:I:909:ASP:O	2.20	0.42
2:I:937:ARG:NE	2:I:941:LEU:CD1	2.82	0.42
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1291:ARG:HD2	2:J:1297:LYS:HB3	2.02	0.42
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.39	0.42
2:J:200:LEU:H	2:J:200:LEU:HD23	1.84	0.42
2:J:472:THR:CG2	2:J:499:VAL:HG22	2.50	0.42
2:J:573:VAL:O	2:J:577:GLY:HA3	2.20	0.42
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.49	0.42
2:J:790:PRO:HA	2:J:795:SER:OG	2.20	0.42
2:J:929:MET:HE1	2:J:934:VAL:HA	2.00	0.42
2:K:1481:ILE:HG13	2:K:1481:ILE:O	2.19	0.42
2:K:1436:ARG:NH2	2:K:1602:LEU:HD11	2.34	0.42
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.40	0.42
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.20	0.42
2:K:1911:THR:HG21	2:K:1977:ARG:HB2	2.01	0.42
2:K:1948:MET:HG2	2:K:1993:PHE:CZ	2.55	0.42
1:E:23:ALA:HA	2:K:2007:SER:O	2.19	0.42
2:K:594:MET:SD	2:K:809:GLY:HA3	2.59	0.42
2:K:605:VAL:O	2:K:628:ILE:HA	2.20	0.42
2:L:48:LEU:HD11	2:L:101:VAL:HG11	2.00	0.42
4:L:2101:FMN:H9	4:L:2101:FMN:H1'2	1.86	0.42
2:L:219:LYS:HB2	2:L:220:GLN:NE2	2.34	0.42
2:L:174:GLY:HA3	2:L:518:PRO:HD2	2.02	0.42
2:L:601:PRO:HA	2:L:602:PRO:HD3	1.79	0.42
2:L:796:TRP:CG	2:L:797:SER:N	2.87	0.42
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.49	0.42
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.55	0.42
1:A:662:ALA:HA	1:A:694:TYR:OH	2.19	0.42
1:A:667:ALA:O	1:A:671:GLN:HG3	2.19	0.42
1:A:853:MET:HG2	1:A:856:ASN:ND2	2.33	0.42
1:A:888:ILE:HA	1:A:891:LEU:HD12	2.02	0.42
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.41	0.42
1:B:799:LEU:HD11	1:B:824:LEU:HD12	2.00	0.42
1:C:1162:GLY:O	1:C:1354:SER:HA	2.20	0.42
1:C:427:ARG:HG3	1:C:492:ILE:HG12	2.02	0.42
1:C:751:GLU:OE1	1:C:770:MET:HE1	2.19	0.42
1:B:1104:GLN:HE22	1:D:1106:LEU:HD12	1.84	0.42
1:D:1183:VAL:HG11	1:D:1187:THR:CG2	2.46	0.42
1:D:1592:ALA:O	1:D:1593:ASP:C	2.56	0.42
1:D:452:ILE:HG22	1:D:453:ASP:N	2.34	0.42
1:D:681:ILE:O	1:D:681:ILE:HG23	2.19	0.42
1:A:1241:LEU:CD2	1:E:1097:LEU:HD12	2.49	0.42
1:E:848:ARG:HG2	1:E:871:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1071:TYR:CD2	1:F:1071:TYR:C	2.92	0.42
1:F:1393:VAL:N	1:F:1394:PRO:HD3	2.33	0.42
1:F:533:SER:OG	1:F:612:ILE:HG13	2.19	0.42
1:F:626:TRP:CE3	1:F:898:PHE:HB2	2.55	0.42
2:G:1309:PHE:CD1	2:G:1309:PHE:N	2.87	0.42
2:G:204:ILE:CG2	2:G:312:VAL:HG11	2.48	0.42
2:G:606:ALA:HB2	2:G:811:MET:CG	2.47	0.42
2:G:890:LYS:HB2	2:G:890:LYS:HE3	1.80	0.42
2:G:950:TRP:CE2	2:G:956:LYS:HG3	2.54	0.42
1:C:71:ALA:HB3	2:H:371:HIS:HB2	2.02	0.42
2:H:44:GLN:O	2:H:48:LEU:HG	2.20	0.42
2:I:928:ASP:O	2:I:1007:LEU:HD23	2.19	0.42
2:I:1047:LEU:H	2:I:1047:LEU:CD1	2.29	0.42
2:I:1299:VAL:HG22	2:I:1301:PHE:CG	2.55	0.42
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.19	0.42
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.35	0.42
2:I:2039:TYR:C	2:I:2039:TYR:CD2	2.93	0.42
2:I:318:ILE:HA	2:I:451:ILE:HD13	2.01	0.42
2:I:666:ASN:N	2:I:667:PRO:HD3	2.34	0.42
2:J:912:LYS:HE2	2:J:1028:VAL:O	2.19	0.42
2:J:1096:LYS:HD2	2:J:1100:ARG:NH2	2.34	0.42
2:J:1236:LEU:HD21	2:J:1239:ASP:O	2.19	0.42
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.42
2:J:1637:VAL:HG12	2:J:1679:LEU:HD22	2.02	0.42
2:J:1731:GLY:O	2:J:1747:VAL:HG12	2.19	0.42
2:J:1981:GLU:O	2:J:1984:PRO:HG3	2.20	0.42
2:J:1044:LYS:HE2	3:J:2102:NAP:H4B	2.02	0.42
2:J:398:LEU:HD23	2:J:398:LEU:HA	1.88	0.42
2:J:724:ILE:O	2:J:727:VAL:HG23	2.20	0.42
2:J:754:PHE:CD1	2:J:754:PHE:N	2.86	0.42
2:J:791:TYR:HD2	2:J:796:TRP:CG	2.37	0.42
2:J:894:GLU:CD	2:J:897:LYS:HD3	2.40	0.42
2:K:208:LEU:HD23	2:K:211:LEU:HD12	2.02	0.42
4:K:2101:FMN:H1'2	4:K:2101:FMN:H9	1.87	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:664:TYR:OH	2:K:701:VAL:HG11	2.19	0.42
2:K:747:ARG:NH1	2:K:780:SER:O	2.52	0.42
2:K:578:PRO:HG3	2:K:792:LEU:O	2.20	0.42
2:L:1491:ARG:O	2:L:1492:LEU:HD23	2.19	0.42
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.18	0.42
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:29:ILE:HG13	2:L:1920:TYR:O	2.19	0.42
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.54	0.42
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.54	0.42
2:L:791:TYR:HD2	2:L:796:TRP:CG	2.37	0.42
1:A:1219:GLY:CA	1:A:1272:PRO:HD2	2.49	0.42
1:A:916:THR:HA	1:A:919:ARG:HB2	2.00	0.42
1:B:406:ALA:HB2	1:B:439:ARG:HD2	2.00	0.42
1:B:914:LEU:O	1:B:917:LYS:HB3	2.19	0.42
1:C:1232:LEU:HD23	1:C:1232:LEU:HA	1.79	0.42
1:C:1525:THR:O	1:C:1526:SER:HB3	2.19	0.42
1:D:1654:TYR:CZ	1:D:1658:VAL:HG21	2.54	0.42
1:D:620:LYS:HE3	1:D:626:TRP:CZ2	2.55	0.42
1:D:756:ILE:HA	1:D:759:ILE:CD1	2.48	0.42
1:D:885:ALA:HA	1:D:886:PRO:HD3	1.89	0.42
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.19	0.42
1:E:1232:LEU:HD23	1:E:1253:SER:HB2	2.02	0.42
1:E:711:VAL:HG12	1:E:712:VAL:H	1.84	0.42
1:E:754:ARG:N	1:E:810:ASN:HB3	2.35	0.42
1:F:1301:VAL:HG22	1:F:1302:CYS:N	2.35	0.42
1:F:782:LYS:NZ	1:F:786:LYS:HD2	2.34	0.42
1:F:999:LEU:HD23	1:F:999:LEU:HA	1.74	0.42
2:G:1175:MET:O	2:G:1192:LEU:HD12	2.20	0.42
2:G:1229:VAL:CG1	2:G:1230:LYS:N	2.83	0.42
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.20	0.42
2:G:1332:GLY:C	2:G:1334:ALA:N	2.72	0.42
2:G:1359:LYS:O	2:G:1362:PHE:HD1	2.03	0.42
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.25	0.42
2:G:1515:LEU:HB2	2:G:1525:VAL:HG21	2.02	0.42
2:G:36:LEU:HA	2:G:36:LEU:HD12	1.91	0.42
2:G:317:TRP:CD1	2:G:454:ASP:OD2	2.73	0.42
2:G:283:THR:HG23	2:G:470:TYR:O	2.20	0.42
2:G:704:GLU:OE1	2:G:704:GLU:HA	2.19	0.42
2:H:1234:ILE:HG22	2:H:1242:ILE:HG22	2.01	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:NE	2.47	0.42
2:H:1400:GLN:HG3	2:H:1448:ARG:HH12	1.85	0.42
2:H:1982:ALA:C	2:H:1984:PRO:HD3	2.40	0.42
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	2.02	0.42
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	2.00	0.42
2:I:1914:LEU:O	2:I:1931:GLY:HA3	2.20	0.42
2:I:204:ILE:CG2	2:I:312:VAL:HG11	2.48	0.42
2:I:248:VAL:O	2:I:252:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:174:GLY:HA2	2:I:524:ILE:CG1	2.49	0.42
2:I:613:VAL:H	2:I:614:PRO:HD3	1.85	0.42
2:I:917:ARG:NH1	2:I:917:ARG:CG	2.45	0.42
2:J:1456:LEU:HD11	2:J:1543:TYR:CE2	2.48	0.42
2:J:1481:ILE:HD12	2:J:1515:LEU:CD2	2.47	0.42
2:J:1762:MET:HA	2:J:1779:LYS:HE2	2.02	0.42
4:J:2101:FMN:O4'	4:J:2101:FMN:H1'2	2.19	0.42
2:J:374:GLU:CA	2:J:377:HIS:CD2	2.80	0.42
2:J:560:ASP:HB3	2:J:565:ALA:HB1	2.00	0.42
2:J:717:LYS:HD2	4:J:2101:FMN:O2	2.20	0.42
2:J:818:THR:HG22	2:J:829:LYS:CB	2.43	0.42
2:J:907:ASN:HD21	2:J:917:ARG:HE	1.66	0.42
2:J:990:TYR:N	2:J:991:PRO:CD	2.83	0.42
2:K:1163:LEU:HD12	2:K:1163:LEU:HA	1.78	0.42
2:K:1113:ILE:HG23	2:K:1169:TYR:CD2	2.55	0.42
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.49	0.42
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.83	0.42
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.20	0.42
2:K:248:VAL:O	2:K:252:LEU:HB2	2.19	0.42
2:K:52:PHE:CD2	2:K:79:TYR:HD1	2.37	0.42
2:K:626:TYR:OH	2:K:1088:ASP:HA	2.19	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.35	0.42
2:K:673:GLN:O	2:K:676:LEU:HB3	2.20	0.42
2:K:865:ILE:HG21	2:K:867:LYS:HE3	2.02	0.42
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.49	0.42
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	2.02	0.42
2:L:1940:ALA:HA	2:L:1995:THR:HG21	2.01	0.42
2:L:501:TRP:CZ2	2:L:524:ILE:HG21	2.54	0.42
2:L:512:HIS:HE1	2:L:566:VAL:HG13	1.84	0.42
2:L:754:PHE:CD1	2:L:754:PHE:N	2.88	0.42
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.47	0.42
1:A:409:ASP:HB2	1:A:439:ARG:HH12	1.83	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:CB	2.48	0.42
1:B:526:MET:CE	1:B:615:LEU:HG	2.50	0.42
1:B:526:MET:HE3	1:B:615:LEU:HG	2.01	0.42
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.87	0.42
1:C:623:PHE:O	1:C:624:GLY:C	2.58	0.42
1:C:852:LEU:O	1:C:852:LEU:HD23	2.20	0.42
1:D:1232:LEU:HA	1:D:1232:LEU:HD23	1.72	0.42
1:D:1672:GLY:O	1:D:1676:ASN:N	2.52	0.42
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.77	0.42
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.55	0.42
1:D:898:PHE:CD2	1:D:899:ALA:N	2.88	0.42
1:E:1060:ASP:HB2	1:E:1063:ASP:OD2	2.19	0.42
1:E:1157:ASP:O	1:E:1327:ALA:HB3	2.20	0.42
1:E:422:LEU:HD13	1:E:429:ILE:HG23	2.02	0.42
1:E:767:HIS:NE2	1:E:771:LEU:HD22	2.35	0.42
1:E:859:VAL:HG12	1:E:859:VAL:O	2.19	0.42
1:E:955:VAL:O	2:K:978:SER:N	2.48	0.42
1:F:1157:ASP:O	1:F:1327:ALA:HB3	2.19	0.42
1:F:422:LEU:HD13	1:F:429:ILE:HG23	2.02	0.42
2:G:1084:LYS:O	2:G:1088:ASP:CB	2.65	0.42
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	2.02	0.42
2:G:1383:VAL:HA	2:G:1384:PRO:HD3	1.90	0.42
1:A:41:THR:HA	2:G:1689:VAL:HB	2.02	0.42
2:G:1744:GLU:HA	2:G:1799:LEU:HD11	2.02	0.42
2:G:863:GLU:HA	2:G:864:PRO:HD3	1.81	0.42
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.33	0.42
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	2.02	0.42
2:H:541:LEU:HG	2:H:552:VAL:HG11	2.02	0.42
2:H:571:ASP:HB3	2:H:574:LYS:HB2	2.02	0.42
2:H:578:PRO:HG3	2:H:792:LEU:O	2.20	0.42
2:I:819:ALA:HA	2:I:1081:GLU:O	2.20	0.42
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.00	0.42
2:I:1618:SER:O	2:I:1621:GLU:HB2	2.19	0.42
2:I:1769:VAL:HG13	2:I:1774:SER:C	2.39	0.42
2:I:1725:HIS:CD2	2:I:1854:GLU:HB2	2.54	0.42
2:I:2020:PHE:O	2:I:2024:LYS:HG2	2.20	0.42
2:I:646:SER:O	2:I:649:GLU:HG2	2.20	0.42
2:I:724:ILE:O	2:I:727:VAL:HG23	2.20	0.42
2:I:838:VAL:HG12	2:I:839:ASP:N	2.35	0.42
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	2.01	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH22	2.32	0.42
2:J:1646:ASN:HA	2:J:1646:ASN:HD22	1.69	0.42
2:J:2010:LEU:O	2:J:2014:VAL:HG23	2.19	0.42
2:J:248:VAL:O	2:J:252:LEU:HB2	2.19	0.42
2:J:595:SER:HB3	2:J:602:PRO:HD3	2.01	0.42
2:K:868:LEU:HD21	2:K:1068:GLN:HG3	2.02	0.42
2:K:1083:ILE:HG13	2:K:1083:ILE:H	1.51	0.42
2:K:1455:GLN:HB2	2:K:1551:ILE:CG1	2.50	0.42
1:E:22:PHE:CE1	2:K:1867:MET:HG3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:583:THR:HG22	2:K:1115:TYR:HA	2.01	0.42
2:K:604:MET:HE1	2:K:777:VAL:HG11	2.02	0.42
1:E:960:ARG:HD3	2:K:969:ARG:NH2	2.34	0.42
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	2.00	0.42
2:L:1178:THR:HG22	2:L:1180:VAL:N	2.31	0.42
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.19	0.42
2:L:202:THR:O	2:L:205:ALA:HB3	2.19	0.42
2:L:465:LEU:HD13	2:L:469:VAL:HB	2.01	0.42
2:L:472:THR:CG2	2:L:499:VAL:HG22	2.50	0.42
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.19	0.42
2:L:578:PRO:HG3	2:L:792:LEU:O	2.18	0.42
2:L:607:GLY:HA2	2:L:612:THR:HG21	2.02	0.42
2:L:615:TRP:O	2:L:618:VAL:HG13	2.20	0.42
2:L:740:ILE:HA	2:L:775:VAL:HB	2.00	0.42
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.42
2:L:937:ARG:NE	2:L:941:LEU:CD1	2.81	0.42
1:A:1191:LEU:HA	1:A:1191:LEU:HD23	1.90	0.42
1:A:1522:PHE:CD2	1:A:1534:GLU:HB3	2.55	0.42
1:A:802:SER:HA	1:A:803:PRO:HD3	1.80	0.42
1:B:526:MET:HE1	1:B:614:PHE:HB3	2.01	0.42
1:B:711:VAL:HG12	1:B:712:VAL:H	1.84	0.42
1:B:746:PHE:CG	3:B:1901:NAP:H4D	2.54	0.42
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.83	0.42
1:B:916:THR:HA	1:B:919:ARG:HB2	2.01	0.42
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.53	0.42
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	2.01	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.19	0.42
1:D:1207:TYR:CE2	1:D:1682:LYS:HD2	2.54	0.42
1:D:1420:TYR:O	1:D:1424:GLN:HG2	2.20	0.42
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.02	0.42
1:D:527:ALA:HA	1:D:613:PRO:HB3	2.01	0.42
1:D:902:ASN:C	1:D:904:GLY:H	2.23	0.42
1:E:549:TYR:O	1:E:553:ARG:HB3	2.20	0.42
1:E:868:VAL:HG22	1:E:869:ARG:H	1.84	0.42
1:E:626:TRP:CD2	1:E:898:PHE:HD1	2.37	0.42
1:F:1011:ARG:HH11	1:F:1012:TRP:HA	1.84	0.42
1:F:1011:ARG:NH1	1:F:1012:TRP:HA	2.35	0.42
1:F:1672:GLY:O	1:F:1676:ASN:N	2.53	0.42
1:A:831:GLU:HG2	1:F:755:GLU:HG2	2.02	0.42
2:G:162:ALA:CA	2:G:167:VAL:HG22	2.48	0.42
2:G:1751:GLY:O	2:G:1752:PRO:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:208:LEU:HD23	2:G:211:LEU:HD12	2.02	0.42
2:G:444:LEU:HA	2:G:444:LEU:HD23	1.75	0.42
2:G:790:PRO:HA	2:G:795:SER:OG	2.19	0.42
2:H:1163:LEU:HD12	2:H:1163:LEU:HA	1.85	0.42
2:H:1238:GLY:O	2:H:1239:ASP:HB2	2.19	0.42
2:H:1726:PHE:CE1	2:H:1857:VAL:HB	2.55	0.42
1:C:71:ALA:CB	2:H:371:HIS:HB2	2.50	0.42
2:H:815:ARG:NH2	2:H:1086:ILE:CG2	2.83	0.42
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	2.00	0.42
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.20	0.42
2:I:1945:ILE:HG22	2:I:1946:LEU:N	2.34	0.42
2:I:1966:ARG:HG3	2:I:1967:ALA:N	2.34	0.42
2:I:1972:ILE:HG13	2:I:1972:ILE:H	1.41	0.42
2:I:202:THR:O	2:I:205:ALA:HB3	2.20	0.42
2:I:311:ALA:O	2:I:314:LEU:HB3	2.20	0.42
2:I:501:TRP:C	2:I:501:TRP:CD1	2.94	0.42
2:J:1470:LYS:HD3	2:J:1470:LYS:HA	1.89	0.42
2:J:437:ALA:HA	2:J:438:PRO:HD3	1.81	0.42
2:J:521:VAL:HG13	2:J:549:ASN:HB2	2.01	0.42
2:J:604:MET:CE	2:J:811:MET:HB2	2.48	0.42
2:J:99:LEU:HA	2:J:99:LEU:HD23	1.92	0.42
2:K:1538:ASN:HA	2:K:1539:PRO:HD3	1.87	0.42
2:K:1662:ARG:NH1	2:K:1684:GLU:OE1	2.52	0.42
2:K:1766:PHE:HB2	2:K:1780:ILE:HG12	2.02	0.42
2:K:186:LEU:HD23	2:K:186:LEU:HA	1.84	0.42
2:K:2052:LYS:HG2	2:K:2052:LYS:H	1.38	0.42
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.42
2:K:465:LEU:HD13	2:K:469:VAL:HB	2.01	0.42
2:K:821:GLU:OE2	2:K:1083:ILE:HG13	2.20	0.42
2:L:1022:ARG:HG3	2:L:1022:ARG:H	1.63	0.42
2:L:1442:TYR:CG	2:L:1499:LYS:O	2.73	0.42
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	2.02	0.42
2:L:220:GLN:O	2:L:222:PRO:HD3	2.19	0.42
2:L:560:ASP:HB3	2:L:565:ALA:HB1	2.01	0.42
2:L:608:MET:HA	4:L:2101:FMN:C5A	2.49	0.42
2:L:724:ILE:O	2:L:727:VAL:HG23	2.19	0.42
1:A:1004:PRO:HD3	1:A:1572:TRP:HH2	1.82	0.42
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.20	0.42
1:A:1470:ARG:HD3	1:A:1470:ARG:HA	1.83	0.42
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.68	0.42
1:A:960:ARG:HH12	2:G:968:GLU:CD	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1574:LEU:HD12	1:B:1574:LEU:HA	1.83	0.42
1:B:1554:LEU:HD23	1:B:1606:VAL:HG12	2.02	0.42
1:B:27:ARG:H	1:B:27:ARG:HG2	1.38	0.42
1:B:632:LEU:CA	1:B:635:ILE:HG22	2.45	0.42
1:B:869:ARG:HB2	1:B:869:ARG:HE	1.64	0.42
1:C:1052:ASP:O	1:C:1055:THR:O	2.38	0.42
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	2.00	0.42
1:C:1589:ASN:ND2	1:C:1589:ASN:C	2.74	0.42
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.13	0.42
1:C:611:THR:HG22	1:C:612:ILE:N	2.35	0.42
1:D:1080:LEU:HD23	1:D:1080:LEU:HA	1.85	0.42
1:D:13:LEU:HD11	2:J:2058:VAL:HG21	2.02	0.42
1:D:983:GLN:HB3	1:D:1418:ILE:HG21	2.02	0.42
1:D:930:GLN:H	1:D:930:GLN:HG2	1.72	0.42
1:D:965:TYR:HE1	1:D:1669:PHE:CD1	2.38	0.42
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.93	0.42
1:E:1160:VAL:C	1:E:1352:MET:HE1	2.40	0.42
1:E:902:ASN:O	1:E:904:GLY:N	2.52	0.42
1:E:916:THR:HA	1:E:919:ARG:HB2	2.02	0.42
1:C:1237:LYS:HB2	1:F:1236:TYR:O	2.20	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:CB	2.49	0.42
1:F:363:GLU:O	1:F:366:LYS:HB2	2.20	0.42
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.85	0.42
1:F:902:ASN:OD1	1:F:905:LEU:HD12	2.20	0.42
2:G:1057:TYR:C	2:G:1059:GLN:H	2.23	0.42
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.55	0.42
2:G:1400:GLN:HG3	2:G:1448:ARG:NH1	2.32	0.42
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.20	0.42
2:G:1335:PHE:CZ	2:G:1629:ILE:HD13	2.55	0.42
2:G:1743:LYS:HA	2:G:1798:GLY:HA2	2.02	0.42
2:G:479:ARG:C	2:G:481:LEU:H	2.23	0.42
2:G:723:ALA:O	2:G:726:GLN:HB2	2.20	0.42
2:G:791:TYR:CD2	2:G:796:TRP:CG	3.07	0.42
2:H:1207:THR:HB	2:H:1216:VAL:HB	2.02	0.42
2:H:129:ILE:HG21	2:H:132:LYS:HD2	2.01	0.42
2:H:1337:ASP:HB2	2:H:1342:PHE:CD1	2.54	0.42
2:H:1515:LEU:CB	2:H:1525:VAL:HG21	2.50	0.42
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.50	0.42
2:H:2053:GLU:HG3	2:H:2053:GLU:H	1.67	0.42
2:H:608:MET:HA	4:H:2101:FMN:C5A	2.50	0.42
2:H:272:PRO:HG2	2:H:300:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:41:LEU:HD13	2:H:100:GLU:HB3	2.01	0.42
2:H:501:TRP:CZ2	2:H:528:THR:CG2	3.03	0.42
2:H:587:GLN:NE2	2:H:1268:GLU:HG2	2.35	0.42
2:H:690:LEU:HB2	2:H:711:ILE:HG21	2.02	0.42
2:I:48:LEU:HD11	2:I:101:VAL:HG11	2.02	0.42
2:I:589:PHE:CD1	2:I:1116:PHE:CD2	3.08	0.42
2:I:1404:VAL:HA	2:I:1412:MET:O	2.20	0.42
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.42
2:I:1919:ASN:HA	2:I:1919:ASN:HD22	1.62	0.42
2:I:196:PHE:N	2:I:196:PHE:HD2	2.18	0.42
2:I:2057:GLU:HA	2:I:2060:ARG:HH12	1.78	0.42
2:I:481:LEU:C	2:I:483:ASP:H	2.24	0.42
2:I:609:THR:HG23	4:I:2101:FMN:O4	2.20	0.42
2:I:790:PRO:HA	2:I:795:SER:OG	2.20	0.42
2:I:827:GLN:O	2:I:830:GLN:HB3	2.20	0.42
2:I:938:MET:HE2	2:I:959:THR:HG22	2.02	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.81	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH21	2.32	0.42
2:J:1472:TRP:CE2	2:J:1540:VAL:HG22	2.55	0.42
2:J:1783:GLU:CD	2:J:1783:GLU:H	2.24	0.42
2:J:664:TYR:OH	2:J:701:VAL:HG11	2.20	0.42
2:J:765:TYR:CD2	2:J:805:MET:HG2	2.55	0.42
2:K:1057:TYR:C	2:K:1059:GLN:H	2.23	0.42
2:K:155:ASP:N	2:K:155:ASP:OD1	2.53	0.42
2:K:612:THR:CG2	2:K:629:GLU:O	2.68	0.42
2:K:664:TYR:C	2:K:666:ASN:H	2.23	0.42
2:L:122:ILE:HD13	2:L:122:ILE:HA	1.94	0.42
2:L:1324:PHE:N	2:L:1583:VAL:HG11	2.35	0.42
2:L:1378:ASN:HD22	2:L:1431:SER:CB	2.33	0.42
2:L:1454:MET:HE2	2:L:1550:SER:CA	2.41	0.42
2:L:1520:LYS:HD2	2:L:1520:LYS:N	2.35	0.42
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.19	0.42
2:L:169:ILE:HG22	2:L:279:PHE:CD2	2.55	0.42
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.19	0.42
2:L:248:VAL:O	2:L:252:LEU:HB2	2.20	0.42
2:L:351:LEU:HD22	2:L:352:SER:H	1.85	0.42
2:L:461:PRO:HB3	2:L:483:ASP:O	2.20	0.42
2:L:48:LEU:HG	2:L:48:LEU:H	1.51	0.42
2:L:60:THR:HG22	2:L:62:GLU:H	1.84	0.42
2:L:700:GLU:HA	2:L:703:ASN:HB2	2.02	0.42
2:L:744:THR:HG22	2:L:745:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:955:LEU:HD21	2:L:1026:LYS:O	2.20	0.42
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.85	0.41
1:A:569:LEU:O	1:A:573:VAL:HG23	2.20	0.41
1:A:397:ARG:HH12	1:A:692:THR:HG21	1.85	0.41
1:B:1207:TYR:CE2	1:B:1682:LYS:HD2	2.55	0.41
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.65	0.41
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	2.01	0.41
1:B:397:ARG:NH1	1:B:397:ARG:CG	2.48	0.41
1:B:562:SER:OG	1:E:551:LEU:HD21	2.20	0.41
1:C:1491:ASN:N	1:C:1491:ASN:ND2	2.67	0.41
1:C:458:GLU:CD	1:C:458:GLU:H	2.22	0.41
1:D:1160:VAL:HG11	1:D:1337:PRO:HB3	2.01	0.41
1:D:1651:TYR:CE2	1:D:1655:CYS:SG	3.13	0.41
1:D:686:ARG:NH2	3:D:1901:NAP:O2X	2.53	0.41
1:D:802:SER:HA	1:D:803:PRO:HD3	1.81	0.41
1:E:1082:GLU:HB2	1:E:1085:LEU:HD12	2.02	0.41
1:E:421:ARG:NH2	1:E:1613:LYS:CB	2.83	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:HD2	2.02	0.41
1:F:435:GLN:O	1:F:439:ARG:HG3	2.20	0.41
1:F:455:CYS:HA	1:F:456:PRO:HD3	1.84	0.41
1:F:654:HIS:O	1:F:741:ASP:HB2	2.20	0.41
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.55	0.41
1:F:904:GLY:HA2	1:F:906:GLN:CD	2.40	0.41
2:G:1337:ASP:HB2	2:G:1342:PHE:CD1	2.55	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.81	0.41
2:G:1777:THR:O	2:G:1777:THR:HG23	2.20	0.41
2:G:1847:LEU:HD12	2:G:1847:LEU:N	2.35	0.41
2:G:211:LEU:HD13	2:G:313:GLU:HG3	2.02	0.41
2:G:396:ILE:N	2:G:396:ILE:HD12	2.31	0.41
2:G:720:SER:HB3	2:G:723:ALA:HB2	2.02	0.41
2:H:596:ARG:HD3	2:H:1119:ARG:HG3	2.02	0.41
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.50	0.41
2:H:1802:ALA:CB	2:H:1804:GLN:HE22	2.27	0.41
2:H:1847:LEU:N	2:H:1847:LEU:HD12	2.35	0.41
2:H:197:VAL:HG13	2:H:200:LEU:HD21	2.02	0.41
2:H:420:PRO:HG3	2:H:847:TYR:HD1	1.85	0.41
2:H:459:LYS:HA	2:H:485:ASP:CG	2.40	0.41
2:H:649:GLU:HG3	2:H:650:LYS:N	2.34	0.41
2:I:580:LEU:HG	2:I:1098:LEU:HD23	2.01	0.41
2:I:1762:MET:HA	2:I:1779:LYS:HE2	2.01	0.41
2:I:174:GLY:HA3	2:I:518:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:560:ASP:HB3	2:I:565:ALA:HB1	2.01	0.41
2:I:698:SER:H	2:I:701:VAL:HG21	1.85	0.41
2:I:754:PHE:N	2:I:754:PHE:CD1	2.86	0.41
2:I:990:TYR:N	2:I:991:PRO:CD	2.82	0.41
2:J:1644:LEU:HB3	2:J:1645:PRO:CD	2.50	0.41
2:J:1966:ARG:HG3	2:J:1967:ALA:N	2.35	0.41
4:J:2101:FMN:H9	4:J:2101:FMN:H1'2	1.81	0.41
2:J:220:GLN:O	2:J:222:PRO:HD3	2.20	0.41
2:J:615:TRP:O	2:J:618:VAL:HG13	2.20	0.41
2:J:914:TRP:CZ3	2:J:1033:ALA:HA	2.55	0.41
2:K:1022:ARG:H	2:K:1022:ARG:HG3	1.65	0.41
2:K:76:VAL:HG21	2:K:113:PHE:CZ	2.55	0.41
2:K:411:PRO:HD2	2:K:414:LEU:HD11	2.01	0.41
2:L:113:PHE:CD1	2:L:113:PHE:N	2.88	0.41
2:L:1346:MET:HG3	2:L:1380:TYR:CD1	2.55	0.41
2:L:1590:ILE:HG22	2:L:1591:HIS:N	2.35	0.41
2:L:1721:ARG:NH2	2:L:1853:ILE:CD1	2.78	0.41
2:L:1723:ASP:O	2:L:1727:ARG:HG3	2.20	0.41
2:L:246:ALA:N	2:L:247:PRO:HD2	2.35	0.41
2:L:279:PHE:HB2	2:L:467:ILE:HD12	2.02	0.41
2:L:720:SER:HB3	2:L:723:ALA:HB2	2.02	0.41
1:A:1296:GLN:HE21	1:E:1296:GLN:HG2	1.85	0.41
1:A:1419:LYS:HA	1:A:1422:ARG:HB2	2.02	0.41
1:A:388:GLU:HA	1:A:389:PRO:HD3	1.95	0.41
1:B:358:PHE:CD2	1:B:359:VAL:N	2.88	0.41
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.40	0.41
1:D:1157:ASP:O	1:D:1327:ALA:HB3	2.20	0.41
1:D:1369:LEU:HD11	1:D:1642:LEU:HD21	2.02	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.54	0.41
1:C:358:PHE:HB2	1:D:358:PHE:HB2	2.02	0.41
1:D:749:ILE:HG13	1:D:769:ILE:HD13	2.02	0.41
1:D:88:ILE:HG21	2:J:1821:MET:HE1	2.01	0.41
1:D:905:LEU:C	1:D:907:PHE:H	2.24	0.41
1:E:1652:GLU:O	1:E:1656:VAL:HG23	2.20	0.41
1:E:1713:PHE:HA	1:E:1714:PRO:HD3	1.84	0.41
1:B:575:ARG:HD3	1:E:534:GLN:O	2.20	0.41
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.54	0.41
1:F:1129:ILE:HG22	1:F:1139:THR:O	2.20	0.41
1:F:1562:THR:HB	1:F:1572:TRP:CZ3	2.55	0.41
1:F:968:PRO:CD	1:F:1374:PRO:HB3	2.50	0.41
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:155:ASP:N	2:G:155:ASP:OD1	2.52	0.41
2:G:1755:LYS:H	2:G:1755:LYS:HG2	1.71	0.41
2:G:1919:ASN:HD22	2:G:1919:ASN:HA	1.57	0.41
2:G:1982:ALA:C	2:G:1984:PRO:HD3	2.40	0.41
2:G:605:VAL:O	2:G:628:ILE:HA	2.20	0.41
2:G:655:GLY:HA3	2:G:1272:ALA:HB2	2.01	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41
2:H:129:ILE:CG2	2:H:132:LYS:HD2	2.50	0.41
2:H:1447:GLN:HB3	2:H:1496:VAL:HG13	2.02	0.41
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.49	0.41
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.55	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.81	0.41
2:H:512:HIS:HE1	2:H:566:VAL:HG13	1.85	0.41
2:H:52:PHE:O	2:H:55:THR:HB	2.20	0.41
2:H:744:THR:HG22	2:H:745:GLY:H	1.84	0.41
2:H:868:LEU:HD12	2:H:1066:ILE:HD12	2.01	0.41
2:H:95:HIS:CB	2:H:96:PRO:HD3	2.50	0.41
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.83	0.41
2:I:1891:ILE:CD1	2:I:1943:LEU:HB3	2.46	0.41
2:I:670:MET:CE	2:I:674:ILE:HD11	2.49	0.41
2:I:747:ARG:NH2	2:I:757:PHE:CE1	2.88	0.41
2:I:791:TYR:CD2	2:I:796:TRP:CG	3.08	0.41
2:J:1551:ILE:CG2	2:J:1552:GLU:HG3	2.47	0.41
2:J:1807:GLN:HB3	2:J:1860:VAL:CG1	2.49	0.41
2:J:193:TYR:HD1	2:J:263:ILE:HD13	1.82	0.41
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.19	0.41
2:J:704:GLU:OE1	2:J:704:GLU:HA	2.19	0.41
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.61	0.41
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.49	0.41
2:K:1496:VAL:HG21	2:K:1504:TYR:CD2	2.55	0.41
2:K:1590:ILE:O	2:K:1597:SER:HB3	2.20	0.41
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	2.01	0.41
2:K:48:LEU:HD13	2:K:83:VAL:HG22	2.02	0.41
2:K:720:SER:HB3	2:K:723:ALA:HB2	2.02	0.41
2:K:785:SER:HB2	2:K:1094:HIS:CD2	2.56	0.41
2:L:1305:LEU:CD1	2:L:1305:LEU:H	2.25	0.41
2:L:197:VAL:HG13	2:L:200:LEU:HD21	2.01	0.41
2:L:219:LYS:HB2	2:L:220:GLN:HE21	1.84	0.41
2:L:635:TYR:CD2	2:L:641:MET:HG3	2.53	0.41
2:L:615:TRP:HB2	2:L:648:ILE:HG13	2.03	0.41
2:L:713:HIS:HD2	2:L:740:ILE:HD13	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
1:A:1038:HIS:CE1	1:A:1042:LEU:HD23	2.54	0.41
1:A:1640:LYS:HD2	1:A:1641:TYR:CE1	2.55	0.41
1:A:440:SER:HB3	1:A:481:LEU:CD2	2.45	0.41
1:B:1522:PHE:HB2	1:B:1557:PHE:CD1	2.55	0.41
1:B:1696:PHE:HB3	1:D:1402:THR:HG22	2.03	0.41
1:B:34:VAL:O	1:B:38:GLU:HB2	2.20	0.41
1:B:801:LEU:HD13	1:B:822:GLU:HG2	2.02	0.41
1:B:902:ASN:O	1:B:904:GLY:N	2.51	0.41
1:C:1057:GLU:HA	1:C:1058:PRO:HD3	1.91	0.41
1:C:1060:ASP:HB2	1:C:1063:ASP:OD2	2.20	0.41
1:C:1217:GLU:O	1:C:1299:ALA:HB1	2.20	0.41
1:C:1395:ALA:HA	1:C:1396:PRO:HD3	1.83	0.41
1:C:29:ILE:HG12	2:I:1921:ASN:C	2.40	0.41
1:D:1129:ILE:HG22	1:D:1139:THR:O	2.20	0.41
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.35	0.41
1:D:526:MET:HE3	1:D:614:PHE:HB2	2.01	0.41
1:D:681:ILE:HG21	1:D:729:ILE:CD1	2.51	0.41
1:D:914:LEU:HD12	1:D:914:LEU:O	2.21	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.21	0.41
1:E:681:ILE:HG23	1:E:681:ILE:O	2.20	0.41
1:E:532:ILE:HD11	1:E:866:LEU:O	2.21	0.41
1:F:11:TYR:HD1	2:L:2030:ILE:CD1	2.34	0.41
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.55	0.41
1:F:407:ARG:HG3	1:F:407:ARG:H	1.59	0.41
1:F:448:MET:HA	1:F:448:MET:HE3	2.03	0.41
2:G:1241:GLU:HA	2:G:1263:PHE:O	2.20	0.41
2:G:2009:PHE:O	2:G:2009:PHE:HD2	2.03	0.41
2:G:223:LYS:HB3	2:G:242:TYR:CZ	2.55	0.41
2:G:720:SER:H	2:G:723:ALA:HB3	1.85	0.41
2:H:1181:PHE:HE1	2:H:1191:PRO:HD2	1.84	0.41
2:H:1378:ASN:HB3	2:H:1610:MET:HE3	2.02	0.41
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.20	0.41
2:H:1851:MET:CE	2:H:2025:ILE:HG12	2.50	0.41
2:H:388:ASN:ND2	2:H:388:ASN:C	2.71	0.41
2:H:724:ILE:O	2:H:727:VAL:HG23	2.20	0.41
2:H:858:LEU:CD2	2:H:864:PRO:HA	2.50	0.41
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.70	0.41
2:I:1096:LYS:HD2	2:I:1100:ARG:NH2	2.35	0.41
2:I:1325:VAL:HG13	2:I:1330:ASN:O	2.20	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:381:SER:OG	2:I:392:THR:HG23	2.20	0.41
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.20	0.41
2:I:673:GLN:O	2:I:676:LEU:HB3	2.21	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	1.99	0.41
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.67	0.41
2:J:155:ASP:N	2:J:155:ASP:OD1	2.54	0.41
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.20	0.41
2:J:351:LEU:HD22	2:J:352:SER:H	1.85	0.41
2:J:349:PRO:O	2:J:392:THR:HA	2.20	0.41
2:J:720:SER:H	2:J:723:ALA:HB3	1.85	0.41
2:J:821:GLU:HB2	2:J:1083:ILE:HD11	2.02	0.41
2:J:746:GLY:O	2:J:843:TRP:NE1	2.53	0.41
2:K:1753:ARG:O	2:K:1757:ILE:HG12	2.20	0.41
2:K:189:ILE:HD12	2:K:256:VAL:HG13	2.02	0.41
2:K:297:THR:HG22	2:K:298:ALA:N	2.34	0.41
2:K:441:SER:C	2:K:443:TYR:H	2.24	0.41
2:K:545:ILE:HG22	2:K:555:LYS:HD3	2.02	0.41
2:K:609:THR:HG22	2:K:633:GLY:CA	2.49	0.41
2:K:641:MET:CE	2:K:676:LEU:HD12	2.50	0.41
2:K:747:ARG:HH11	2:K:780:SER:CB	2.26	0.41
2:K:916:GLY:O	2:K:924:VAL:N	2.46	0.41
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.90	0.41
2:L:189:ILE:HD12	2:L:256:VAL:HG13	2.02	0.41
1:F:13:LEU:CD1	2:L:2058:VAL:HG21	2.50	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
2:L:271:GLU:H	2:L:274:GLU:CG	2.33	0.41
2:L:646:SER:O	2:L:649:GLU:HG2	2.20	0.41
2:L:938:MET:CE	2:L:959:THR:HA	2.50	0.41
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.39	0.41
1:A:565:GLN:O	1:A:568:ALA:HB3	2.20	0.41
1:A:673:LEU:HD21	1:A:884:MET:CE	2.50	0.41
1:B:963:LEU:CD2	1:B:1023:GLU:HB3	2.50	0.41
1:B:1395:ALA:HA	1:B:1396:PRO:HD3	1.82	0.41
1:B:21:GLN:HE21	1:B:21:GLN:HB3	1.60	0.41
1:B:802:SER:HA	1:B:803:PRO:HD3	1.83	0.41
1:C:1097:LEU:HD12	1:F:1241:LEU:CD2	2.51	0.41
1:C:1278:GLY:CA	1:C:1282:THR:HG22	2.49	0.41
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	2.02	0.41
1:C:1577:CYS:HB3	1:C:1620:PHE:CD2	2.55	0.41
1:C:570:TYR:O	1:C:574:ILE:HG12	2.20	0.41
1:C:612:ILE:CG2	1:C:628:TYR:CD2	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:474:ILE:O	1:D:478:LYS:HG3	2.20	0.41
1:D:612:ILE:HG23	1:D:613:PRO:HD2	2.02	0.41
1:D:881:LEU:HA	1:D:884:MET:CG	2.39	0.41
1:D:968:PRO:CD	1:D:1374:PRO:HB3	2.50	0.41
1:E:1574:LEU:HA	1:E:1574:LEU:HD12	1.80	0.41
1:E:1710:GLU:OE1	1:E:1712:LYS:HE3	2.20	0.41
1:C:1104:GLN:NE2	1:F:1106:LEU:HD12	2.34	0.41
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	2.02	0.41
1:F:1579:GLN:O	1:F:1583:THR:HG23	2.20	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.50	0.41
1:F:1698:ASN:C	1:F:1698:ASN:OD1	2.58	0.41
1:F:27:ARG:HG2	1:F:27:ARG:H	1.36	0.41
1:F:636:TYR:CE1	1:F:883:LEU:HD23	2.55	0.41
2:G:1624:ALA:HB1	2:G:1665:ILE:CD1	2.50	0.41
2:G:636:TYR:CE2	3:G:2102:NAP:H3B	2.55	0.41
2:G:353:ILE:O	2:G:353:ILE:HG22	2.19	0.41
2:G:887:ASP:O	2:G:888:ARG:C	2.58	0.41
2:H:1289:TYR:CD2	2:H:1370:LEU:HD23	2.56	0.41
2:H:1721:ARG:NH1	2:H:1854:GLU:OE2	2.53	0.41
2:H:1910:VAL:HG11	2:H:1973:ILE:CG2	2.51	0.41
2:H:2015:LYS:HB2	2:H:2016:PRO:CD	2.43	0.41
2:H:606:ALA:HB2	2:H:811:MET:CG	2.49	0.41
2:H:740:ILE:HA	2:H:775:VAL:HB	2.01	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.75	0.41
2:I:1346:MET:HE2	2:I:1346:MET:HB3	1.87	0.41
2:I:1424:LYS:HB2	2:I:1424:LYS:HE3	1.96	0.41
2:I:1456:LEU:CD1	2:I:1543:TYR:HE2	2.28	0.41
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.46	0.41
2:I:220:GLN:O	2:I:222:PRO:HD3	2.20	0.41
2:H:47:GLN:CG	2:I:23:PRO:HD2	2.49	0.41
2:I:352:SER:HB2	2:I:433:LEU:HD11	2.03	0.41
2:I:479:ARG:C	2:I:481:LEU:H	2.24	0.41
2:I:915:PHE:O	2:I:915:PHE:CG	2.73	0.41
2:J:1113:ILE:HG22	2:J:1114:GLU:N	2.35	0.41
2:J:1313:ARG:HG3	2:J:1394:VAL:CG1	2.51	0.41
2:J:396:ILE:CD1	2:J:396:ILE:H	2.29	0.41
2:J:545:ILE:HG22	2:J:555:LYS:HD3	2.02	0.41
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.83	0.41
2:K:1914:LEU:O	2:K:1931:GLY:HA3	2.19	0.41
2:K:1945:ILE:HG22	2:K:1946:LEU:N	2.34	0.41
2:K:223:LYS:HB3	2:K:242:TYR:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:357:THR:O	2:K:361:VAL:HG23	2.20	0.41
2:K:521:VAL:HG12	2:K:521:VAL:O	2.20	0.41
2:K:117:ASN:CA	2:K:561:ARG:HG3	2.38	0.41
2:K:616:ASP:OD2	2:K:823:HIS:NE2	2.53	0.41
2:K:670:MET:CE	2:K:674:ILE:HD11	2.51	0.41
2:K:642:SER:HB3	2:K:676:LEU:HD21	2.02	0.41
2:L:819:ALA:HA	2:L:1081:GLU:O	2.21	0.41
2:L:1096:LYS:HD2	2:L:1100:ARG:NH2	2.35	0.41
2:L:76:VAL:HG21	2:L:113:PHE:CZ	2.55	0.41
2:L:1120:ILE:HG13	2:L:1169:TYR:CZ	2.56	0.41
2:L:152:LYS:HA	2:L:153:PRO:HD3	1.82	0.41
2:L:154:TYR:CD1	2:L:561:ARG:CZ	3.03	0.41
2:L:1810:LEU:HA	2:L:1810:LEU:HD23	1.84	0.41
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.41
2:L:1920:TYR:HD2	2:L:1927:TYR:HE2	1.68	0.41
2:L:418:ARG:HE	2:L:418:ARG:HB3	1.67	0.41
2:L:507:PHE:HA	2:L:508:PRO:HD3	1.90	0.41
2:L:535:THR:OG1	2:L:537:VAL:HG23	2.21	0.41
1:A:4:GLU:HG3	1:A:4:GLU:H	1.50	0.41
1:A:632:LEU:O	1:A:633:THR:C	2.59	0.41
1:B:1363:MET:HB2	1:B:1363:MET:HE2	1.77	0.41
1:B:1527:THR:OG1	1:B:1530:ASN:HB3	2.20	0.41
1:B:1546:GLY:O	1:B:1547:ARG:C	2.57	0.41
1:C:1168:TRP:CE2	1:C:1173:TYR:HE1	2.39	0.41
1:C:1363:MET:SD	1:C:1367:LEU:HD13	2.61	0.41
1:C:1704:THR:HG23	1:C:1714:PRO:HG3	2.01	0.41
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.49	0.41
1:C:741:ASP:CG	1:C:793:ARG:HH11	2.24	0.41
1:D:1011:ARG:HH11	1:D:1012:TRP:HA	1.86	0.41
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	2.02	0.41
1:D:12:THR:CG2	2:J:2066:LYS:HD3	2.50	0.41
1:E:1167:GLY:O	1:E:1172:ARG:NH1	2.54	0.41
1:E:1343:PRO:O	1:E:1531:ASP:OD2	2.38	0.41
1:E:1654:TYR:CZ	1:E:1658:VAL:HG21	2.55	0.41
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.58	0.41
1:E:448:MET:HE3	1:E:448:MET:HA	2.02	0.41
1:E:674:LEU:HA	1:E:674:LEU:HD23	1.92	0.41
1:F:1127:VAL:HG22	1:F:1142:LEU:HA	2.03	0.41
1:F:1191:LEU:HD23	1:F:1191:LEU:HA	1.80	0.41
1:F:2:ARG:CZ	2:L:2078:GLU:OE1	2.68	0.41
1:F:493:PRO:HD2	1:F:517:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:68:TYR:CD2	1:F:68:TYR:C	2.94	0.41
1:F:848:ARG:HG2	1:F:871:PHE:O	2.21	0.41
1:F:881:LEU:O	1:F:884:MET:HB2	2.21	0.41
2:G:1120:ILE:HD13	2:G:1173:HIS:CE1	2.56	0.41
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	2.02	0.41
2:G:1342:PHE:CE2	2:G:1391:VAL:HB	2.55	0.41
2:G:1384:PRO:HB3	2:G:1829:ARG:NH1	2.35	0.41
2:G:2050:ILE:HG12	2:G:2050:ILE:O	2.20	0.41
2:G:349:PRO:O	2:G:392:THR:HA	2.20	0.41
2:G:476:GLN:HG2	2:G:476:GLN:H	1.66	0.41
2:H:1473:PHE:HE1	2:H:1513:VAL:HG21	1.85	0.41
2:H:1577:ASN:OD1	2:H:1607:THR:HA	2.20	0.41
2:H:174:GLY:H	2:H:517:GLY:CA	2.32	0.41
2:H:1749:PHE:CD2	2:H:1758:ARG:HB3	2.55	0.41
2:H:1881:TYR:CZ	2:H:2009:PHE:HE1	2.38	0.41
2:H:1940:ALA:HA	2:H:1995:THR:HG21	2.03	0.41
2:H:265:CYS:SG	2:H:275:LEU:HB2	2.60	0.41
2:H:472:THR:CG2	2:H:499:VAL:HG22	2.50	0.41
2:H:528:THR:HA	2:H:531:ASN:ND2	2.36	0.41
2:H:605:VAL:O	2:H:628:ILE:HA	2.21	0.41
2:H:618:VAL:CG1	2:H:648:ILE:HD11	2.50	0.41
2:H:788:THR:HG21	2:H:810:CYS:SG	2.60	0.41
2:I:1769:VAL:HG22	2:I:1775:ILE:CA	2.39	0.41
2:I:1880:ASN:HB3	2:I:1881:TYR:CE1	2.55	0.41
2:I:1910:VAL:HG11	2:I:1973:ILE:CG2	2.50	0.41
2:I:163:ALA:HB2	2:I:278:ARG:HE	1.85	0.41
2:I:463:SER:C	2:I:465:LEU:H	2.24	0.41
2:I:664:TYR:OH	2:I:701:VAL:HG11	2.20	0.41
2:I:740:ILE:HA	2:I:775:VAL:HB	2.02	0.41
2:I:821:GLU:OE2	2:I:1083:ILE:HG13	2.21	0.41
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.84	0.41
2:J:60:THR:HG22	2:J:62:GLU:HG3	2.01	0.41
2:J:676:LEU:HA	2:J:679:ARG:NH2	2.35	0.41
2:J:858:LEU:CD2	2:J:864:PRO:HA	2.51	0.41
2:K:1000:TYR:HA	2:K:1001:PRO:HD2	1.72	0.41
2:K:1149:ALA:HA	2:K:1150:PRO:HD3	1.90	0.41
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.21	0.41
2:K:1725:HIS:CD2	2:K:1854:GLU:HB2	2.55	0.41
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	2.03	0.41
2:K:2020:PHE:O	2:K:2024:LYS:HG2	2.21	0.41
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:931:TYR:CD2	2:K:966:VAL:HG13	2.56	0.41
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.83	0.41
2:L:1241:GLU:HA	2:L:1263:PHE:O	2.20	0.41
2:L:1517:LEU:CG	2:L:1523:ILE:HD11	2.49	0.41
2:L:1706:MET:HE1	2:L:1735:ILE:HG23	2.02	0.41
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	2.02	0.41
2:L:716:PHE:CD1	2:L:727:VAL:HG13	2.56	0.41
2:L:932:ALA:O	2:L:935:VAL:HG13	2.20	0.41
1:A:422:LEU:HD13	1:A:429:ILE:HG12	2.02	0.41
1:A:434:ILE:HD11	1:A:490:VAL:HG21	2.01	0.41
1:A:523:VAL:HG11	1:A:641:GLU:CA	2.50	0.41
1:B:1232:LEU:HD23	1:B:1253:SER:HB2	2.03	0.41
1:B:1277:VAL:HG23	1:D:1277:VAL:HG23	2.03	0.41
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	2.03	0.41
1:B:576:ALA:HB1	1:B:584:ILE:HD11	2.03	0.41
1:B:740:LEU:HD12	1:B:781:ILE:HD13	2.03	0.41
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	2.03	0.41
1:C:1404:ALA:HA	1:C:1501:ALA:HB1	2.02	0.41
1:C:1507:LEU:HA	1:C:1507:LEU:HD23	1.80	0.41
1:C:382:ILE:HG13	1:C:382:ILE:H	1.65	0.41
1:C:506:ILE:HD13	1:C:922:ILE:CG2	2.44	0.41
1:C:580:ASN:OD1	1:C:583:GLN:HG3	2.20	0.41
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.21	0.41
1:D:450:TYR:CD2	1:D:450:TYR:C	2.93	0.41
1:D:544:ASP:O	1:D:548:VAL:HG23	2.21	0.41
1:E:1041:PRO:HA	1:E:1046:PRO:HA	2.03	0.41
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	2.03	0.41
1:E:1487:THR:HA	1:E:1491:ASN:ND2	2.35	0.41
1:E:1599:MET:HA	1:E:1602:PHE:HD2	1.86	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.73	0.41
1:F:42:GLU:OE1	2:L:1688:PRO:HB3	2.20	0.41
1:F:876:MET:O	1:F:876:MET:HE3	2.21	0.41
1:F:855:ALA:HB1	1:F:919:ARG:HH21	1.84	0.41
2:G:1096:LYS:HD2	2:G:1100:ARG:NH2	2.35	0.41
2:G:1351:VAL:CG2	2:G:1584:SER:HA	2.47	0.41
2:G:246:ALA:N	2:G:247:PRO:HD2	2.36	0.41
2:G:521:VAL:HG12	2:G:521:VAL:O	2.20	0.41
2:G:618:VAL:CG1	2:G:648:ILE:HD11	2.51	0.41
2:G:744:THR:HG22	2:G:745:GLY:N	2.35	0.41
2:G:743:TRP:CZ2	2:G:757:PHE:HA	2.50	0.41
2:G:80:ILE:HG12	2:G:105:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1171:TRP:CG	2:H:1172:ARG:N	2.89	0.41
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.21	0.41
2:H:1753:ARG:O	2:H:1757:ILE:HG12	2.21	0.41
2:H:2052:LYS:CD	2:H:2074:TRP:HE1	2.24	0.41
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.56	0.41
2:H:534:GLY:O	2:H:571:ASP:HA	2.20	0.41
2:H:723:ALA:O	2:H:726:GLN:HB2	2.20	0.41
2:H:882:LYS:HD3	2:H:898:ARG:NH1	2.35	0.41
2:I:521:VAL:O	2:I:521:VAL:HG12	2.20	0.41
2:J:819:ALA:HA	2:J:1081:GLU:O	2.19	0.41
2:J:1236:LEU:HD12	2:J:1241:GLU:O	2.20	0.41
2:J:1381:ARG:NH1	2:J:1634:SER:HB2	2.36	0.41
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.31	0.41
2:J:1933:LEU:HB3	2:J:1987:VAL:CG1	2.51	0.41
2:J:197:VAL:HG13	2:J:200:LEU:HD21	2.02	0.41
2:J:578:PRO:HG3	2:J:792:LEU:O	2.19	0.41
2:J:723:ALA:O	2:J:726:GLN:HB2	2.20	0.41
2:J:747:ARG:HH11	2:J:780:SER:CB	2.26	0.41
2:K:1067:LEU:HB3	4:K:2101:FMN:HM82	2.02	0.41
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.21	0.41
2:K:1207:THR:HB	2:K:1216:VAL:HB	2.03	0.41
2:K:1616:VAL:HG13	2:K:1635:TYR:OH	2.20	0.41
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	2.02	0.41
2:K:2044:THR:C	2:K:2046:LYS:H	2.24	0.41
2:K:511:THR:C	2:K:512:HIS:CD2	2.93	0.41
2:K:130:THR:HG23	2:K:546:ASP:HB3	2.02	0.41
2:K:699:ILE:CD1	2:K:699:ILE:H	2.34	0.41
2:K:815:ARG:NH2	2:K:1086:ILE:CG2	2.83	0.41
2:L:129:ILE:CG2	2:L:132:LYS:HD2	2.51	0.41
2:L:1465:ALA:O	2:L:1469:SER:HB3	2.20	0.41
2:L:1721:ARG:HH21	2:L:1853:ILE:CD1	2.31	0.41
1:F:13:LEU:HD21	2:L:2054:TYR:CD2	2.55	0.41
2:L:60:THR:HG22	2:L:62:GLU:HG3	2.01	0.41
2:L:744:THR:HG22	2:L:745:GLY:N	2.36	0.41
2:L:743:TRP:CZ2	2:L:757:PHE:HA	2.51	0.41
2:L:929:MET:CE	2:L:934:VAL:HG22	2.51	0.41
1:A:1459:GLY:HA2	1:A:1460:PRO:HD3	1.92	0.41
1:A:452:ILE:HG22	1:A:453:ASP:N	2.35	0.41
1:B:1162:GLY:O	1:B:1354:SER:HA	2.21	0.41
1:B:448:MET:HA	1:B:448:MET:CE	2.51	0.41
1:B:452:ILE:CD1	1:B:470:GLY:HA3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:522:TYR:O	1:B:526:MET:HG2	2.21	0.41
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.56	0.41
1:C:1065:LYS:O	1:C:1069:GLU:HB2	2.20	0.41
1:C:1191:LEU:HA	1:C:1191:LEU:HD23	1.89	0.41
1:C:1652:GLU:O	1:C:1656:VAL:HG23	2.21	0.41
1:C:39:LYS:HD3	2:I:1832:THR:HG21	2.03	0.41
1:C:427:ARG:O	1:C:430:VAL:HB	2.21	0.41
1:C:681:ILE:HG21	1:C:729:ILE:CD1	2.51	0.41
1:D:1542:LEU:HD22	1:D:1547:ARG:HD3	2.03	0.41
1:D:363:GLU:O	1:D:366:LYS:HB2	2.20	0.41
1:E:1051:VAL:HG13	1:E:1057:GLU:O	2.21	0.41
1:E:1127:VAL:HG22	1:E:1142:LEU:HA	2.03	0.41
1:E:1457:GLU:HG3	1:E:1457:GLU:H	1.48	0.41
1:E:21:GLN:O	2:K:2006:HIS:CD2	2.71	0.41
1:E:619:LYS:HE3	1:E:619:LYS:HB2	1.84	0.41
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.50	0.41
1:F:1217:GLU:O	1:F:1299:ALA:HB1	2.21	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:CE	2.50	0.41
1:F:1522:PHE:CD2	1:F:1534:GLU:HB3	2.55	0.41
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.86	0.41
1:F:859:VAL:HG13	1:F:918:LEU:CB	2.51	0.41
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.01	0.41
2:G:1181:PHE:HE1	2:G:1191:PRO:HD2	1.84	0.41
2:G:1207:THR:HB	2:G:1216:VAL:HB	2.03	0.41
2:G:1231:THR:HG22	2:G:1232:VAL:N	2.35	0.41
2:G:1454:MET:HA	2:G:1454:MET:HE2	2.02	0.41
2:G:1656:VAL:O	2:G:1656:VAL:HG22	2.21	0.41
2:G:1709:TYR:HE2	2:G:1716:LYS:HE2	1.85	0.41
1:A:34:VAL:HG21	2:G:2045:ALA:O	2.19	0.41
4:G:2101:FMN:H9	4:G:2101:FMN:H1'2	1.88	0.41
2:G:433:LEU:HA	2:G:434:PRO:HD3	1.86	0.41
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.41
2:G:938:MET:HE2	2:G:959:THR:HG22	2.01	0.41
2:H:1102:LEU:HD23	2:H:1102:LEU:HA	1.83	0.41
2:H:1241:GLU:HA	2:H:1263:PHE:O	2.21	0.41
2:H:186:LEU:HA	2:H:186:LEU:HD23	1.78	0.41
2:H:636:TYR:CE2	3:H:2102:NAP:H3B	2.56	0.41
2:H:317:TRP:CD1	2:H:454:ASP:CG	2.94	0.41
2:H:329:THR:HG22	2:I:1331:THR:O	2.20	0.41
2:H:716:PHE:CD1	2:H:727:VAL:HG13	2.55	0.41
2:I:1053:ILE:CD1	2:I:1061:VAL:HG13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1203:TYR:CE2	2:I:1205:GLU:HG3	2.55	0.41
2:I:152:LYS:HA	2:I:153:PRO:HD3	1.84	0.41
2:I:460:ILE:O	2:I:486:ILE:N	2.53	0.41
2:I:720:SER:HB3	2:I:723:ALA:HB2	2.03	0.41
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.41
2:I:932:ALA:O	2:I:935:VAL:HG13	2.21	0.41
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.85	0.41
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.21	0.41
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.20	0.41
2:J:1847:LEU:HD12	2:J:1847:LEU:N	2.35	0.41
2:J:48:LEU:HG	2:J:48:LEU:H	1.56	0.41
2:J:608:MET:HE2	2:J:608:MET:HB3	1.54	0.41
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.51	0.41
2:J:726:GLN:O	2:J:730:ILE:HG12	2.20	0.41
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.53	0.41
2:K:626:TYR:CE1	2:K:1087:LEU:HB3	2.55	0.41
2:K:1847:LEU:HD12	2:K:1847:LEU:N	2.35	0.41
2:K:416:GLN:HA	2:K:419:ILE:HG13	2.03	0.41
2:K:440:HIS:CD2	2:K:497:ASP:O	2.61	0.41
2:K:765:TYR:HB2	2:K:805:MET:HE3	2.01	0.41
2:K:818:THR:HA	2:K:829:LYS:HE2	2.01	0.41
2:L:1007:LEU:N	2:L:1007:LEU:CD1	2.76	0.41
2:L:912:LYS:HB3	2:L:1030:PHE:HA	2.03	0.41
2:L:1057:TYR:C	2:L:1059:GLN:H	2.23	0.41
2:L:1481:ILE:HG13	2:L:1481:ILE:O	2.20	0.41
2:L:1847:LEU:N	2:L:1847:LEU:HD12	2.35	0.41
2:L:2058:VAL:O	2:L:2062:THR:HB	2.21	0.41
2:L:265:CYS:HA	2:L:275:LEU:HD12	2.03	0.41
2:L:310:ARG:HH12	2:L:459:LYS:H	1.69	0.41
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.56	0.41
1:A:1293:THR:HG23	1:A:1298:LYS:HB2	2.02	0.41
1:A:1371:MET:O	1:A:1661:ARG:NH1	2.54	0.41
1:A:1393:VAL:N	1:A:1394:PRO:HD3	2.35	0.41
1:A:619:LYS:HB2	1:A:619:LYS:HE3	1.85	0.41
1:B:1700:GLN:O	1:B:1701:SER:C	2.59	0.41
1:B:352:ARG:O	1:B:356:LYS:HG3	2.20	0.41
1:B:579:MET:CE	1:E:907:PHE:CZ	3.04	0.41
1:C:1514:ILE:H	1:C:1514:ILE:HG13	1.31	0.41
1:C:1343:PRO:O	1:C:1531:ASP:OD2	2.39	0.41
1:C:36:LEU:O	1:C:76:ARG:NH2	2.52	0.41
1:C:4:GLU:HG3	1:C:4:GLU:H	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:632:LEU:O	1:C:633:THR:C	2.59	0.41
1:C:662:ALA:HA	1:C:694:TYR:CZ	2.55	0.41
1:D:1063:ASP:O	1:D:1064:VAL:C	2.57	0.41
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.56	0.41
1:D:1321:MET:HB3	1:D:1321:MET:HE2	1.76	0.41
1:E:388:GLU:HA	1:E:389:PRO:HD3	1.95	0.41
1:E:879:ASN:HB3	1:E:901:LEU:HD13	2.03	0.41
1:F:963:LEU:CD2	1:F:1023:GLU:HB3	2.51	0.41
1:F:343:ILE:O	1:F:347:LEU:HG	2.21	0.41
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.86	0.41
1:F:637:LEU:HD23	1:F:640:LEU:HD23	2.02	0.41
1:F:674:LEU:HA	1:F:674:LEU:HD23	1.88	0.41
1:F:959:PRO:HG2	2:L:974:GLU:HG3	2.02	0.41
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.36	0.41
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	2.03	0.41
2:G:1378:ASN:HD22	2:G:1431:SER:CB	2.33	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.32	0.41
2:G:749:GLY:HA3	4:G:2101:FMN:HM81	2.02	0.41
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.50	0.41
2:G:765:TYR:HB2	2:G:805:MET:HE3	2.03	0.41
2:G:762:LEU:HD23	2:G:805:MET:HE1	2.03	0.41
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.53	0.41
1:A:955:VAL:HG21	2:G:964:ARG:HH21	1.85	0.41
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	2.03	0.41
2:H:1594:ARG:NH1	2:H:1595:VAL:HG13	2.36	0.41
2:H:1723:ASP:O	2:H:1727:ARG:HG3	2.21	0.41
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.46	0.41
2:H:1968:HIS:O	2:H:1971:GLU:HB2	2.20	0.41
2:H:398:LEU:HA	2:H:398:LEU:HD23	1.91	0.41
2:H:536:GLY:HA2	2:H:569:ALA:O	2.21	0.41
2:H:31:LEU:HD13	2:H:75:LEU:HG	2.02	0.41
2:H:791:TYR:HD2	2:H:796:TRP:CG	2.39	0.41
2:I:1483:LEU:HG	2:I:1483:LEU:H	1.09	0.41
2:I:253:ILE:O	2:I:257:GLN:HG3	2.21	0.41
2:I:775:VAL:HG12	2:I:777:VAL:HG23	2.01	0.41
2:I:796:TRP:HH2	2:I:805:MET:HE1	1.81	0.41
2:I:858:LEU:CD2	2:I:864:PRO:HA	2.50	0.41
2:I:929:MET:HE1	2:I:934:VAL:HA	2.02	0.41
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.20	0.41
2:J:1163:LEU:HA	2:J:1163:LEU:HD12	1.79	0.41
1:D:49:PRO:HB2	2:J:1699:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.51	0.41
2:J:2008:THR:O	2:J:2011:ARG:HG3	2.21	0.41
2:J:246:ALA:N	2:J:247:PRO:HD2	2.35	0.41
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.41
2:J:346:THR:HA	2:J:347:PRO:HD3	1.88	0.41
2:J:418:ARG:HB3	2:J:418:ARG:HE	1.70	0.41
2:J:174:GLY:HA2	2:J:524:ILE:HG12	2.02	0.41
2:J:740:ILE:HA	2:J:775:VAL:HB	2.02	0.41
2:K:1106:LYS:HA	2:K:1106:LYS:HD3	1.76	0.41
2:K:1515:LEU:CB	2:K:1525:VAL:HG21	2.51	0.41
2:K:1645:PRO:O	2:K:1646:ASN:HB2	2.20	0.41
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.21	0.41
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.84	0.41
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.51	0.41
2:K:2003:VAL:HA	2:K:2004:PRO:HD3	1.92	0.41
2:K:2039:TYR:C	2:K:2039:TYR:CD2	2.94	0.41
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.90	0.41
2:L:1755:LYS:H	2:L:1755:LYS:HG2	1.69	0.41
2:L:1762:MET:HA	2:L:1779:LYS:HE2	2.01	0.41
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	2.03	0.41
2:L:204:ILE:CG2	2:L:312:VAL:HG21	2.51	0.41
2:L:358:ARG:HB2	2:L:389:PHE:CE2	2.55	0.41
2:L:737:PHE:HA	2:L:738:PRO:HD3	1.86	0.41
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.94	0.41
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.21	0.41
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.20	0.41
1:A:498:THR:CG2	1:A:858:LEU:HA	2.41	0.41
1:B:1065:LYS:O	1:B:1069:GLU:HB2	2.20	0.41
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.80	0.41
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.85	0.41
1:B:628:TYR:CD1	1:B:629:SER:N	2.89	0.41
1:B:777:LEU:CD2	1:B:781:ILE:HD11	2.51	0.41
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.50	0.41
1:C:1371:MET:O	1:C:1661:ARG:NH1	2.54	0.41
1:C:1459:GLY:HA2	1:C:1460:PRO:HD3	1.94	0.41
1:C:1546:GLY:O	1:C:1547:ARG:C	2.59	0.41
1:C:381:ASP:O	1:C:384:ALA:HB3	2.21	0.41
1:C:407:ARG:HB3	1:C:447:PHE:CE2	2.55	0.41
1:C:632:LEU:CA	1:C:635:ILE:HG22	2.46	0.41
1:C:914:LEU:O	1:C:914:LEU:HD12	2.20	0.41
1:D:1584:GLY:HA2	1:D:1617:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1711:LEU:HD23	1:D:1711:LEU:HA	1.88	0.41
1:D:484:PRO:HG3	1:D:651:GLN:OE1	2.21	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.52	0.41
1:A:1107:GLU:CB	1:E:1104:GLN:OE1	2.66	0.41
1:E:358:PHE:HD2	1:E:359:VAL:N	2.18	0.41
1:E:397:ARG:N	1:E:397:ARG:HD3	2.36	0.41
1:E:443:LEU:HD12	1:E:443:LEU:H	1.85	0.41
1:E:612:ILE:HG23	1:E:613:PRO:HD2	2.01	0.41
1:F:1183:VAL:HG11	1:F:1187:THR:CG2	2.44	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:HE3	2.03	0.41
1:F:452:ILE:CD1	1:F:467:LYS:HA	2.51	0.41
2:G:1314:GLU:O	2:G:1394:VAL:HA	2.19	0.41
2:G:1455:GLN:HB2	2:G:1551:ILE:HG13	2.03	0.41
2:G:200:LEU:HD23	2:G:200:LEU:H	1.86	0.41
2:G:297:THR:HG22	2:G:298:ALA:N	2.35	0.41
2:G:376:ARG:HH22	2:H:1340:LYS:CE	2.34	0.41
2:G:858:LEU:CD2	2:G:864:PRO:HA	2.51	0.41
2:G:931:TYR:CZ	2:G:1008:ILE:HA	2.56	0.41
2:H:1050:SER:HA	2:H:1064:THR:HG21	2.01	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.81	0.41
2:H:2039:TYR:C	2:H:2039:TYR:CD2	2.94	0.41
2:H:327:PRO:O	2:I:1338:ARG:NH2	2.40	0.41
2:H:339:SER:O	2:H:344:GLU:HB2	2.21	0.41
2:H:462:ALA:HB3	2:H:483:ASP:H	1.85	0.41
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.54	0.41
2:H:916:GLY:O	2:H:924:VAL:HG23	2.20	0.41
2:I:1057:TYR:C	2:I:1059:GLN:H	2.23	0.41
2:I:1229:VAL:CG1	2:I:1230:LYS:N	2.84	0.41
2:I:168:LYS:H	2:I:511:THR:HB	1.85	0.41
2:I:1969:LEU:HA	2:I:1972:ILE:CD1	2.51	0.41
2:I:339:SER:O	2:I:344:GLU:HB2	2.21	0.41
2:I:310:ARG:HH12	2:I:459:LYS:H	1.68	0.41
2:I:641:MET:CE	2:I:676:LEU:HD12	2.51	0.41
2:I:765:TYR:HB2	2:I:805:MET:HE3	2.02	0.41
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.36	0.41
2:J:1594:ARG:NH1	2:J:1595:VAL:HG13	2.36	0.41
2:J:479:ARG:C	2:J:481:LEU:H	2.24	0.41
2:J:875:PHE:C	2:J:878:GLU:HB2	2.41	0.41
2:J:917:ARG:CG	2:J:917:ARG:NH1	2.48	0.41
2:J:931:TYR:CZ	2:J:1008:ILE:HA	2.56	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1378:ASN:HD22	2:K:1431:SER:CB	2.34	0.41
2:K:1455:GLN:HB2	2:K:1551:ILE:HG13	2.03	0.41
2:K:1940:ALA:HA	2:K:1995:THR:HG21	2.02	0.41
2:K:2038:LYS:HD3	2:K:2038:LYS:HA	1.89	0.41
2:K:351:LEU:O	2:K:390:VAL:HA	2.21	0.41
2:K:521:VAL:HG13	2:K:549:ASN:HB2	2.03	0.41
2:K:608:MET:O	2:K:609:THR:C	2.59	0.41
2:K:656:ARG:HA	2:K:656:ARG:HD2	1.91	0.41
2:K:740:ILE:HD12	2:K:740:ILE:H	1.86	0.41
2:K:31:LEU:HD13	2:K:75:LEU:HG	2.02	0.41
2:K:875:PHE:HE2	2:K:906:LEU:HD23	1.85	0.41
2:L:1064:THR:HG22	2:L:1065:CYS:H	1.85	0.41
2:L:1146:LEU:HD11	2:L:1160:PHE:CE2	2.56	0.41
2:L:1238:GLY:O	2:L:1239:ASP:HB2	2.20	0.41
2:L:1447:GLN:HB3	2:L:1496:VAL:HG13	2.03	0.41
2:L:1991:ARG:HE	2:L:1996:ILE:HG12	1.86	0.41
1:A:1127:VAL:HG22	1:A:1142:LEU:HA	2.03	0.41
1:A:1484:GLU:O	1:A:1487:THR:HB	2.21	0.41
1:A:1674:ILE:HG22	1:A:1675:ASN:OD1	2.21	0.41
1:A:392:ASP:HA	1:A:393:PRO:HD2	1.72	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.51	0.41
1:A:526:MET:HE3	1:A:614:PHE:HB2	2.03	0.41
1:B:1288:ASP:C	1:B:1288:ASP:OD2	2.59	0.41
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.56	0.41
1:B:1491:ASN:H	1:B:1491:ASN:ND2	2.16	0.41
1:B:491:SER:O	1:B:493:PRO:HD3	2.21	0.41
1:C:1623:THR:HG22	1:C:1633:GLN:HB2	2.03	0.41
1:C:726:VAL:HG21	1:C:780:ALA:HB3	2.02	0.41
1:C:636:TYR:CE1	1:C:883:LEU:HD23	2.56	0.41
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.21	0.41
1:D:1704:THR:HG23	1:D:1714:PRO:HG3	2.02	0.41
1:D:626:TRP:CE3	1:D:898:PHE:HB2	2.56	0.41
1:E:530:GLY:O	1:E:611:THR:HG21	2.21	0.41
1:E:632:LEU:CA	1:E:635:ILE:HG22	2.47	0.41
1:E:390:ALA:O	1:E:713:PRO:HB2	2.20	0.41
1:F:984:LEU:HD21	1:F:1510:TRP:O	2.21	0.41
1:F:1687:TYR:HD2	1:F:1713:PHE:CD1	2.39	0.41
1:F:24:MET:HB3	2:L:2043:VAL:HG12	2.02	0.41
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.55	0.41
2:G:1047:LEU:CD1	2:G:1047:LEU:H	2.29	0.41
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1346:MET:HE3	2:G:1346:MET:HB3	1.88	0.41
2:G:1616:VAL:HG13	2:G:1635:TYR:OH	2.20	0.41
2:G:202:THR:O	2:G:205:ALA:HB3	2.21	0.41
2:G:251:PRO:CG	2:G:316:PHE:HA	2.48	0.41
2:G:796:TRP:CG	2:G:797:SER:N	2.88	0.41
2:G:821:GLU:HB2	2:G:1083:ILE:HD11	2.02	0.41
2:H:1002:GLU:C	2:H:1004:SER:H	2.24	0.41
2:H:1406:ASN:OD1	2:H:1406:ASN:N	2.52	0.41
2:H:1383:VAL:CG2	2:H:1428:TYR:HE1	2.33	0.41
2:H:1378:ASN:HD22	2:H:1431:SER:CB	2.33	0.41
2:H:1604:GLY:O	2:H:1644:LEU:HD22	2.21	0.41
2:H:1810:LEU:HA	2:H:1810:LEU:HD23	1.88	0.41
2:H:342:ASN:HD22	2:H:342:ASN:N	2.19	0.41
2:H:350:MET:SD	2:H:392:THR:CG2	3.09	0.41
2:H:396:ILE:N	2:H:396:ILE:HD12	2.34	0.41
2:H:481:LEU:C	2:H:483:ASP:H	2.25	0.41
2:H:490:LEU:HD23	2:H:493:MET:SD	2.60	0.41
2:H:501:TRP:CD1	2:H:501:TRP:C	2.94	0.41
2:H:673:GLN:O	2:H:676:LEU:HB3	2.21	0.41
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.85	0.41
2:I:1257:VAL:HA	2:I:1258:PRO:HD3	1.82	0.41
2:I:1497:ARG:O	2:I:1505:SER:HB3	2.21	0.41
2:I:1783:GLU:CD	2:I:1783:GLU:H	2.24	0.41
2:I:2044:THR:C	2:I:2046:LYS:H	2.24	0.41
1:C:20:TYR:CE2	2:I:2062:THR:HG23	2.56	0.41
2:I:2073:ASN:O	2:I:2076:LYS:N	2.53	0.41
2:I:283:THR:HG23	2:I:470:TYR:O	2.21	0.41
2:I:609:THR:HG22	2:I:633:GLY:CA	2.51	0.41
2:I:718:PRO:HG2	2:I:741:LEU:HD11	2.03	0.41
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.51	0.41
2:J:1764:MET:HB3	2:J:1780:ILE:CG1	2.51	0.41
2:J:1940:ALA:HA	2:J:1995:THR:HG21	2.02	0.41
2:J:2009:PHE:O	2:J:2009:PHE:HD2	2.03	0.41
1:E:71:ALA:CB	2:J:371:HIS:HB2	2.51	0.41
2:J:41:LEU:HD13	2:J:100:GLU:HB3	2.02	0.41
2:J:716:PHE:HD1	2:J:727:VAL:HG13	1.85	0.41
2:J:95:HIS:CB	2:J:96:PRO:HD3	2.49	0.41
2:K:1375:HIS:CE1	2:K:1610:MET:SD	3.12	0.41
2:K:1701:GLU:N	2:K:1704:MET:HE3	2.33	0.41
2:K:1751:GLY:O	2:K:1752:PRO:C	2.60	0.41
2:K:1805:PHE:C	2:K:1808:PRO:HD2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1969:LEU:HA	2:K:1972:ILE:CD1	2.50	0.41
2:K:44:GLN:O	2:K:48:LEU:HG	2.20	0.41
2:K:172:ILE:HG22	2:K:514:VAL:C	2.42	0.41
2:K:717:LYS:HD2	4:K:2101:FMN:O2	2.21	0.41
2:L:928:ASP:C	2:L:1007:LEU:HD23	2.41	0.41
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.56	0.41
2:L:1662:ARG:HH11	2:L:1684:GLU:HB3	1.86	0.41
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.21	0.41
2:L:2053:GLU:HG3	2:L:2053:GLU:H	1.68	0.41
2:L:253:ILE:O	2:L:257:GLN:HG3	2.21	0.41
2:L:314:LEU:O	2:L:318:ILE:HG13	2.21	0.41
2:L:342:ASN:OD1	2:L:406:ARG:CZ	2.68	0.41
2:L:541:LEU:HG	2:L:552:VAL:HG11	2.02	0.41
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.50	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.61	0.41
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.21	0.41
1:A:1698:ASN:C	1:A:1698:ASN:OD1	2.58	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:1651:TYR:CE2	1:B:1655:CYS:SG	3.14	0.41
1:B:1686:PRO:HD2	1:B:1687:TYR:CE2	2.56	0.41
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.02	0.41
1:C:1232:LEU:HD23	1:C:1253:SER:HB2	2.01	0.41
1:C:1393:VAL:N	1:C:1394:PRO:HD3	2.36	0.41
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.51	0.41
1:C:474:ILE:O	1:C:478:LYS:HG3	2.21	0.41
1:D:1302:CYS:O	1:D:1362:ILE:HG12	2.21	0.41
1:D:1440:TYR:O	1:D:1444:GLN:HB2	2.20	0.41
1:D:1562:THR:HB	1:D:1572:TRP:CZ3	2.55	0.41
1:D:1521:SER:HB2	1:D:1577:CYS:SG	2.61	0.41
1:D:619:LYS:HE3	1:D:619:LYS:HB2	1.85	0.41
1:D:715:ASN:ND2	3:D:1901:NAP:H62A	2.19	0.41
1:E:1338:GLY:C	1:E:1340:MET:N	2.74	0.41
1:E:1562:THR:HB	1:E:1572:TRP:CZ3	2.56	0.41
1:E:1698:ASN:C	1:E:1698:ASN:OD1	2.58	0.41
1:E:1698:ASN:HA	1:E:1699:PRO:HD3	1.83	0.41
1:E:522:TYR:O	1:E:526:MET:HG2	2.21	0.41
1:E:749:ILE:HA	1:E:750:PRO:HD3	1.89	0.41
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	2.03	0.41
1:F:1491:ASN:ND2	1:F:1491:ASN:N	2.69	0.41
2:G:1783:GLU:CD	2:G:1783:GLU:H	2.24	0.41
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:946:HIS:CE1	2:G:947:GLU:HG3	2.56	0.41
2:H:1706:MET:HE2	2:H:1738:VAL:HG11	2.03	0.41
2:H:1844:LEU:HD22	2:H:1850:VAL:HG21	2.03	0.41
2:H:1981:GLU:O	2:H:1984:PRO:HG3	2.21	0.41
2:H:200:LEU:H	2:H:200:LEU:HD23	1.86	0.41
2:H:228:LEU:O	2:H:232:HIS:CD2	2.71	0.41
2:H:36:LEU:HA	2:H:36:LEU:HD12	1.92	0.41
2:H:863:GLU:HA	2:H:864:PRO:HD3	1.82	0.41
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.56	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:I:787:ASP:CG	2:I:1075:TYR:HE2	2.25	0.41
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.56	0.41
2:I:1844:LEU:HD22	2:I:1850:VAL:HG21	2.02	0.41
2:I:216:ASP:CB	2:I:321:ARG:HH12	2.34	0.41
2:I:268:LEU:HB3	2:I:270:ARG:HD3	2.02	0.41
2:I:472:THR:CG2	2:I:499:VAL:HG22	2.51	0.41
2:I:60:THR:HG22	2:I:62:GLU:HG3	2.03	0.41
2:I:856:THR:HA	2:I:865:ILE:O	2.21	0.41
1:C:962:ASN:CB	2:I:969:ARG:HD2	2.51	0.41
2:J:1057:TYR:C	2:J:1059:GLN:H	2.23	0.41
2:J:1782:LYS:H	2:J:1782:LYS:HG2	1.72	0.41
2:J:186:LEU:HG	2:J:256:VAL:CG2	2.50	0.41
2:J:276:LEU:O	2:J:467:ILE:CD1	2.69	0.41
2:J:595:SER:CB	2:J:602:PRO:HG3	2.32	0.41
2:K:747:ARG:O	2:K:1070:PRO:HD2	2.20	0.41
2:K:1104:ASP:OD1	2:K:1104:ASP:N	2.54	0.41
2:K:137:VAL:O	2:K:141:TYR:HD1	2.04	0.41
1:E:49:PRO:HB2	2:K:1699:SER:O	2.21	0.41
2:K:1709:TYR:HE2	2:K:1716:LYS:HG2	1.86	0.41
2:K:1762:MET:HA	2:K:1779:LYS:HE2	2.02	0.41
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.50	0.41
2:K:1903:VAL:HG13	2:K:1942:VAL:HG11	2.03	0.41
2:K:1966:ARG:HG3	2:K:1967:ALA:N	2.36	0.41
2:K:2008:THR:O	2:K:2011:ARG:HG3	2.21	0.41
2:K:226:ASP:OD2	2:K:229:GLN:HB2	2.20	0.41
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.51	0.41
2:K:894:GLU:OE2	2:K:897:LYS:HD3	2.21	0.41
2:L:1047:LEU:CD1	2:L:1047:LEU:H	2.30	0.41
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.53	0.41
2:L:1289:TYR:OH	2:L:1371:LEU:HA	2.21	0.41
2:L:1406:ASN:HA	2:L:1411:LYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1616:VAL:HG13	2:L:1635:TYR:OH	2.21	0.41
2:L:1766:PHE:HB2	2:L:1780:ILE:HG12	2.03	0.41
2:L:349:PRO:O	2:L:392:THR:HA	2.20	0.41
2:L:595:SER:HB2	2:L:600:VAL:O	2.21	0.41
2:L:690:LEU:HB2	2:L:711:ILE:HG21	2.03	0.41
2:L:938:MET:HE1	2:L:959:THR:HA	2.03	0.41
1:A:1162:GLY:O	1:A:1354:SER:HA	2.21	0.40
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.53	0.40
1:A:868:VAL:HG22	1:A:869:ARG:H	1.85	0.40
1:B:506:ILE:HD11	1:B:926:SER:CB	2.51	0.40
1:C:1042:LEU:O	1:C:1043:LYS:HB2	2.21	0.40
1:C:746:PHE:CG	3:C:1901:NAP:H4D	2.56	0.40
1:D:1323:ALA:CB	1:D:1351:PHE:HE2	2.34	0.40
1:D:27:ARG:NE	2:J:2043:VAL:O	2.53	0.40
1:D:828:TRP:NE1	1:D:838:THR:HA	2.31	0.40
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.55	0.40
1:E:1648:LYS:O	1:E:1652:GLU:HB2	2.20	0.40
1:E:452:ILE:CD1	1:E:470:GLY:HA3	2.45	0.40
1:E:534:GLN:HA	1:E:610:GLU:O	2.22	0.40
1:E:526:MET:CE	1:E:614:PHE:HB3	2.51	0.40
1:B:579:MET:HE1	1:E:907:PHE:CE1	2.56	0.40
1:F:1057:GLU:HA	1:F:1058:PRO:HD3	1.88	0.40
1:F:1395:ALA:HA	1:F:1396:PRO:HD3	1.81	0.40
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	2.04	0.40
1:F:1680:VAL:HG12	1:F:1680:VAL:O	2.20	0.40
1:F:352:ARG:HB2	1:F:352:ARG:HE	1.56	0.40
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.04	0.40
2:G:1972:ILE:HG13	2:G:1972:ILE:H	1.39	0.40
2:G:351:LEU:HD22	2:G:352:SER:H	1.86	0.40
2:G:700:GLU:HA	2:G:703:ASN:HB2	2.02	0.40
2:H:1106:LYS:HD3	2:H:1106:LYS:HA	1.80	0.40
2:H:1410:GLY:HA2	2:H:1437:GLY:H	1.86	0.40
2:H:1624:ALA:CB	2:H:1665:ILE:HD13	2.51	0.40
2:H:1725:HIS:CD2	2:H:1854:GLU:HB2	2.56	0.40
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.84	0.40
2:H:1903:VAL:HG13	2:H:1942:VAL:HG11	2.03	0.40
2:H:1974:GLN:HE21	2:H:1977:ARG:HH21	1.69	0.40
2:H:764:MET:O	2:H:765:TYR:C	2.59	0.40
2:H:929:MET:CE	2:H:934:VAL:HG22	2.51	0.40
2:I:1050:SER:HA	2:I:1064:THR:HG21	2.02	0.40
2:I:1181:PHE:HE1	2:I:1191:PRO:HD2	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.51	0.40
1:C:23:ALA:CA	2:I:2007:SER:O	2.69	0.40
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.88	0.40
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:I:174:GLY:HA2	2:I:524:ILE:HG12	2.03	0.40
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.04	0.40
2:I:938:MET:O	2:I:942:MET:HG3	2.21	0.40
2:I:950:TRP:NE1	2:I:956:LYS:HD3	2.35	0.40
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.21	0.40
2:J:1604:GLY:O	2:J:1644:LEU:HD22	2.21	0.40
2:J:1750:GLY:N	2:J:1754:GLY:HA3	2.36	0.40
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.48	0.40
2:J:1891:ILE:HG22	2:J:1892:SER:N	2.36	0.40
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.52	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.51	0.40
2:J:297:THR:HG22	2:J:298:ALA:N	2.36	0.40
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.33	0.40
2:K:298:ALA:HA	2:K:303:GLU:HG2	2.04	0.40
2:K:331:LEU:CD2	2:K:396:ILE:HG13	2.51	0.40
2:K:536:GLY:HA2	2:K:569:ALA:O	2.22	0.40
2:K:700:GLU:HA	2:K:703:ASN:HB2	2.03	0.40
2:K:838:VAL:HG12	2:K:839:ASP:N	2.36	0.40
2:L:1031:VAL:HA	2:L:1032:PRO:HD3	1.69	0.40
2:L:1762:MET:HE2	2:L:1762:MET:HB3	2.01	0.40
2:L:1725:HIS:CD2	2:L:1854:GLU:HB2	2.56	0.40
2:L:1903:VAL:HG11	2:L:1943:LEU:HD21	2.03	0.40
2:L:1969:LEU:HA	2:L:1972:ILE:CD1	2.51	0.40
2:L:314:LEU:HG	2:L:318:ILE:CD1	2.47	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.80	0.40
2:L:540:ILE:HA	2:L:553:GLY:O	2.21	0.40
1:A:1554:LEU:HB3	1:A:1586:VAL:HG11	2.04	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.04	0.40
1:B:1307:PHE:CB	1:B:1357:CYS:HB3	2.51	0.40
1:B:1441:LEU:O	1:B:1444:GLN:HB3	2.21	0.40
1:B:1514:ILE:HG13	1:B:1514:ILE:H	1.35	0.40
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.80	0.40
1:C:1198:LEU:HA	1:C:1198:LEU:HD23	1.89	0.40
1:C:1268:SER:OG	1:C:1686:PRO:HD3	2.22	0.40
1:C:522:TYR:O	1:C:526:MET:HG2	2.22	0.40
1:C:502:ALA:CA	1:C:929:ARG:HD3	2.50	0.40
1:D:1050:TRP:HE3	1:D:1050:TRP:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1191:LEU:HA	1:D:1191:LEU:HD23	1.82	0.40
1:D:1494:TRP:CG	1:D:1505:GLY:HA3	2.55	0.40
1:D:726:VAL:HG21	1:D:780:ALA:HB3	2.03	0.40
1:E:1102:ILE:HG13	1:E:1102:ILE:H	1.66	0.40
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.56	0.40
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.56	0.40
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.51	0.40
1:E:857:ASN:HA	1:E:860:ALA:HB2	2.02	0.40
1:F:1303:LEU:HA	1:F:1303:LEU:HD23	1.60	0.40
1:F:835:ASN:N	1:F:835:ASN:OD1	2.54	0.40
2:G:1016:PHE:O	2:G:1019:LEU:HB2	2.21	0.40
2:G:1253:GLU:H	2:G:1253:GLU:HG2	1.74	0.40
2:G:1299:VAL:HG22	2:G:1301:PHE:CG	2.56	0.40
2:G:1455:GLN:HB2	2:G:1551:ILE:CG1	2.51	0.40
1:A:928:ILE:HG12	2:G:1462:GLN:HB2	2.03	0.40
1:A:11:TYR:CG	2:G:2027:LYS:HG2	2.56	0.40
2:G:396:ILE:H	2:G:396:ILE:CD1	2.33	0.40
2:G:819:ALA:HA	2:G:1081:GLU:O	2.20	0.40
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.55	0.40
2:H:1299:VAL:HG22	2:H:1301:PHE:CG	2.56	0.40
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.21	0.40
2:H:1799:LEU:C	2:H:1801:SER:H	2.23	0.40
2:H:2010:LEU:O	2:H:2014:VAL:HG23	2.20	0.40
2:H:2073:ASN:O	2:H:2076:LYS:N	2.54	0.40
2:H:268:LEU:HB3	2:H:270:ARG:HD3	2.03	0.40
2:H:652:ILE:O	2:H:654:PRO:HD3	2.22	0.40
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.46	0.40
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.51	0.40
2:I:111:ARG:HE	2:I:111:ARG:HB2	1.73	0.40
2:I:1455:GLN:HB2	2:I:1551:ILE:CG1	2.52	0.40
2:I:1861:PHE:O	2:I:1865:LEU:HG	2.21	0.40
2:I:351:LEU:O	2:I:390:VAL:HA	2.21	0.40
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.85	0.40
2:I:48:LEU:HG	2:I:48:LEU:H	1.51	0.40
2:J:1236:LEU:HD12	2:J:1242:ILE:HA	2.03	0.40
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.34	0.40
2:J:1406:ASN:HA	2:J:1411:LYS:HA	2.03	0.40
2:J:1515:LEU:HB2	2:J:1525:VAL:HG21	2.03	0.40
2:J:1517:LEU:CD2	2:J:1523:ILE:HD11	2.51	0.40
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.03	0.40
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:685:VAL:HG13	2:J:686:PRO:HD2	2.03	0.40
2:K:1356:ALA:HB3	2:K:1397:THR:CG2	2.50	0.40
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.21	0.40
2:K:1803:THR:C	2:K:1805:PHE:N	2.74	0.40
1:E:11:TYR:HD1	2:K:2030:ILE:CD1	2.34	0.40
2:K:468:PRO:HA	2:K:479:ARG:HD3	2.03	0.40
2:K:535:THR:OG1	2:K:537:VAL:HG23	2.22	0.40
2:K:847:TYR:HA	2:K:856:THR:OG1	2.21	0.40
2:K:882:LYS:HD3	2:K:898:ARG:CZ	2.51	0.40
2:K:938:MET:HE1	2:K:959:THR:HA	2.03	0.40
2:L:1464:LEU:C	2:L:1464:LEU:HD13	2.42	0.40
2:L:1507:VAL:HG23	2:L:1530:TYR:HE2	1.86	0.40
2:L:1455:GLN:HB2	2:L:1551:ILE:HG13	2.02	0.40
2:L:297:THR:HG22	2:L:298:ALA:N	2.35	0.40
2:L:501:TRP:CZ2	2:L:528:THR:CG2	3.02	0.40
2:L:827:GLN:O	2:L:830:GLN:HB3	2.20	0.40
1:A:1065:LYS:O	1:A:1069:GLU:HB2	2.21	0.40
1:A:1475:GLU:O	1:A:1478:ALA:HB3	2.21	0.40
1:A:1514:ILE:HD13	1:A:1545:LEU:CB	2.51	0.40
1:A:746:PHE:CD1	1:A:800:PRO:HG3	2.56	0.40
1:A:93:GLU:HA	1:A:94:PRO:HD3	1.82	0.40
1:B:1104:GLN:NE2	1:D:1106:LEU:HD12	2.36	0.40
1:B:1148:LEU:HD23	1:B:1148:LEU:HA	1.61	0.40
1:B:1393:VAL:N	1:B:1394:PRO:HD3	2.36	0.40
1:B:1536:ASP:O	1:B:1540:GLN:HG3	2.22	0.40
1:B:433:CYS:SG	1:B:473:LEU:HD13	2.61	0.40
1:B:50:SER:HB2	1:B:52:THR:HG23	2.02	0.40
1:B:554:ARG:O	1:B:555:GLN:HG3	2.20	0.40
1:C:1405:ARG:HA	1:F:1697:LEU:O	2.21	0.40
1:C:1687:TYR:N	1:C:1687:TYR:CD2	2.88	0.40
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.51	0.40
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.57	0.40
1:D:650:PHE:CE2	1:D:881:LEU:HD22	2.57	0.40
1:E:1303:LEU:HD23	1:E:1303:LEU:HA	1.71	0.40
1:E:452:ILE:HD13	1:E:452:ILE:HA	1.91	0.40
1:E:904:GLY:HA2	1:E:906:GLN:CD	2.41	0.40
1:F:1491:ASN:ND2	1:F:1491:ASN:H	2.19	0.40
1:A:347:LEU:HD12	1:F:340:LEU:HD12	2.02	0.40
1:A:340:LEU:HD12	1:F:347:LEU:HD12	2.02	0.40
1:F:574:ILE:H	1:F:574:ILE:HG12	1.72	0.40
2:G:1321:VAL:HG12	2:G:1322:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1406:ASN:HA	2:G:1411:LYS:HA	2.02	0.40
2:G:1520:LYS:HD2	2:G:1520:LYS:N	2.36	0.40
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.57	0.40
2:G:1624:ALA:HB2	2:G:1665:ILE:HD13	2.03	0.40
2:G:1891:ILE:HG22	2:G:1892:SER:N	2.35	0.40
2:G:1904:VAL:HG13	2:G:1915:LEU:HD23	2.04	0.40
2:G:216:ASP:CB	2:G:321:ARG:HH12	2.34	0.40
2:G:448:HIS:CD2	2:G:491:VAL:CG1	3.01	0.40
2:G:512:HIS:HE1	2:G:566:VAL:HG13	1.86	0.40
2:G:637:ASN:ND2	2:G:639:GLN:HB3	2.36	0.40
2:G:747:ARG:HH11	2:G:780:SER:CB	2.29	0.40
2:G:48:LEU:HD13	2:G:83:VAL:HG22	2.03	0.40
2:G:931:TYR:CD2	2:G:966:VAL:HG13	2.57	0.40
2:H:1067:LEU:N	2:H:1067:LEU:HD12	2.36	0.40
2:H:1257:VAL:HA	2:H:1258:PRO:HD3	1.77	0.40
2:H:1517:LEU:CD2	2:H:1523:ILE:HD11	2.51	0.40
2:H:1845:VAL:CG2	2:H:1856:LEU:HD22	2.49	0.40
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	2.02	0.40
2:H:2058:VAL:CG1	2:H:2067:ILE:HD12	2.51	0.40
2:H:220:GLN:O	2:H:222:PRO:HD3	2.20	0.40
2:H:271:GLU:H	2:H:274:GLU:CG	2.34	0.40
2:H:461:PRO:HB3	2:H:483:ASP:O	2.21	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.81	0.40
2:H:617:PHE:CD1	2:H:822:ALA:CA	3.04	0.40
2:I:1321:VAL:HG12	2:I:1322:ALA:N	2.36	0.40
1:A:68:TYR:CD1	2:I:371:HIS:CD2	3.09	0.40
2:I:656:ARG:NH1	2:I:656:ARG:CG	2.80	0.40
2:I:676:LEU:HA	2:I:679:ARG:NH2	2.36	0.40
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.83	0.40
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.74	0.40
2:I:917:ARG:NH1	2:I:921:GLY:O	2.55	0.40
2:J:1309:PHE:N	2:J:1309:PHE:CD1	2.89	0.40
2:J:1473:PHE:CE1	2:J:1513:VAL:HG21	2.56	0.40
2:J:1507:VAL:HG23	2:J:1530:TYR:HE2	1.87	0.40
2:J:416:GLN:C	2:J:418:ARG:H	2.24	0.40
2:J:512:HIS:HE1	2:J:566:VAL:HG13	1.87	0.40
2:J:536:GLY:HA2	2:J:569:ALA:O	2.22	0.40
2:J:637:ASN:ND2	2:J:639:GLN:HB3	2.35	0.40
2:J:690:LEU:HB2	2:J:711:ILE:HG21	2.03	0.40
2:J:759:GLN:N	2:J:760:PRO:CD	2.85	0.40
2:J:796:TRP:CG	2:J:797:SER:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1081:GLU:HG2	2:K:1086:ILE:HG12	2.03	0.40
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.37	0.40
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.84	0.40
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.51	0.40
2:K:670:MET:HB3	2:K:670:MET:HE2	1.82	0.40
2:K:759:GLN:N	2:K:760:PRO:CD	2.83	0.40
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.84	0.40
2:L:1278:MET:HA	2:L:1281:ARG:HB2	2.03	0.40
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	2.03	0.40
2:L:1934:ARG:O	2:L:1938:THR:HG23	2.21	0.40
1:F:11:TYR:CD1	2:L:2027:LYS:HA	2.56	0.40
2:L:605:VAL:O	2:L:628:ILE:HA	2.20	0.40
2:L:854:VAL:HA	2:L:867:LYS:O	2.21	0.40
2:L:876:TRP:HD1	2:L:876:TRP:C	2.21	0.40
2:L:937:ARG:CZ	2:L:941:LEU:HD11	2.50	0.40
1:A:1094:LYS:HE3	1:A:1316:TYR:CG	2.54	0.40
1:A:1467:LEU:HD23	1:A:1467:LEU:HA	1.90	0.40
1:A:1562:THR:HB	1:A:1572:TRP:CZ3	2.56	0.40
1:A:1584:GLY:HA2	1:A:1617:ILE:HD12	2.03	0.40
1:A:1617:ILE:N	1:A:1617:ILE:CD1	2.79	0.40
1:A:681:ILE:HG23	1:A:681:ILE:O	2.21	0.40
1:B:1514:ILE:CD1	1:B:1545:LEU:HB3	2.51	0.40
1:C:1223:GLY:CA	1:C:1276:PRO:HD2	2.51	0.40
1:C:1545:LEU:HA	1:C:1545:LEU:HD23	1.62	0.40
1:C:537:ASN:HB2	1:C:585:MET:SD	2.61	0.40
1:D:1232:LEU:HD23	1:D:1253:SER:HB2	2.03	0.40
1:D:1162:GLY:O	1:D:1354:SER:HA	2.21	0.40
1:D:21:GLN:O	2:J:2006:HIS:HD2	2.03	0.40
1:D:709:LEU:HA	1:D:709:LEU:HD23	1.81	0.40
1:A:1435:TRP:HD1	1:E:1427:LEU:HD11	1.86	0.40
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.54	0.40
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.85	0.40
1:F:1107:GLU:CG	1:F:1108:PRO:HD2	2.40	0.40
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.78	0.40
1:F:632:LEU:O	1:F:633:THR:C	2.59	0.40
1:F:726:VAL:HG21	1:F:780:ALA:HB3	2.04	0.40
1:F:970:LEU:HA	1:F:971:PRO:HD3	1.98	0.40
2:G:1410:GLY:HA2	2:G:1437:GLY:H	1.86	0.40
2:G:1708:LEU:HD22	2:G:1708:LEU:O	2.21	0.40
2:G:237:GLN:HA	2:G:238:PRO:HD3	1.87	0.40
2:G:382:LEU:HG	2:G:390:VAL:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.22	0.40
2:G:906:LEU:HD22	2:G:906:LEU:HA	1.78	0.40
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.21	0.40
2:H:2031:ASP:C	2:H:2033:SER:N	2.74	0.40
4:H:2101:FMN:HO2'	4:H:2101:FMN:C10	2.32	0.40
2:H:196:PHE:CD1	2:H:266:LYS:HB3	2.57	0.40
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.22	0.40
2:H:785:SER:O	2:H:789:TYR:HB2	2.21	0.40
2:H:887:ASP:O	2:H:888:ARG:C	2.60	0.40
2:I:1236:LEU:HD12	2:I:1242:ILE:HA	2.03	0.40
2:I:1293:TRP:NE1	2:I:1354:TRP:HZ2	2.18	0.40
2:I:1410:GLY:HA2	2:I:1437:GLY:H	1.86	0.40
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	2.04	0.40
2:I:162:ALA:CA	2:I:167:VAL:HG22	2.49	0.40
2:I:1384:PRO:HB3	2:I:1829:ARG:HH12	1.86	0.40
2:I:2050:ILE:O	2:I:2050:ILE:HG12	2.21	0.40
2:I:538:ARG:HD2	2:I:539:VAL:H	1.87	0.40
2:I:541:LEU:HG	2:I:552:VAL:HG11	2.02	0.40
2:I:717:LYS:N	2:I:718:PRO:HD3	2.37	0.40
2:I:815:ARG:NH2	2:I:1086:ILE:CG2	2.85	0.40
2:I:930:THR:O	2:I:934:VAL:HG23	2.21	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:J:1040:TYR:CE1	2:J:1044:LYS:HD2	2.57	0.40
2:J:1171:TRP:CG	2:J:1172:ARG:N	2.90	0.40
2:J:1810:LEU:HA	2:J:1810:LEU:HD23	1.85	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	2.03	0.40
2:J:1910:VAL:HG11	2:J:1973:ILE:CG2	2.51	0.40
2:J:290:VAL:HB	2:J:315:LEU:HD11	2.03	0.40
2:J:279:PHE:HB2	2:J:467:ILE:HD12	2.02	0.40
2:J:501:TRP:CZ2	2:J:528:THR:CG2	3.04	0.40
2:J:511:THR:O	2:J:512:HIS:CD2	2.75	0.40
2:J:817:MET:HE2	2:J:817:MET:HB3	1.84	0.40
2:J:890:LYS:HB2	2:J:890:LYS:HE3	1.78	0.40
2:K:1472:TRP:CD2	2:K:1540:VAL:HG22	2.56	0.40
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.22	0.40
2:K:1884:CYS:CB	2:K:1936:LEU:HD12	2.46	0.40
2:K:396:ILE:N	2:K:396:ILE:HD12	2.36	0.40
2:K:529:ASN:ND2	2:K:552:VAL:HG23	2.34	0.40
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.52	0.40
2:K:907:ASN:HD21	2:K:917:ARG:HE	1.69	0.40
2:L:1041:TRP:CE3	2:L:1041:TRP:HA	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1236:LEU:HD21	2:L:1239:ASP:O	2.21	0.40
2:L:1316:VAL:HG21	2:L:1393:ASP:HB2	2.04	0.40
2:K:376:ARG:NH2	2:L:1340:LYS:CG	2.85	0.40
2:L:1358:THR:O	2:L:1361:ILE:HG13	2.22	0.40
2:L:1577:ASN:OD1	2:L:1607:THR:HA	2.21	0.40
2:L:1764:MET:HG3	2:L:1781:PHE:CD1	2.56	0.40
2:L:1769:VAL:HG22	2:L:1775:ILE:HG23	2.03	0.40
2:L:1880:ASN:HB3	2:L:1881:TYR:CE1	2.56	0.40
2:L:540:ILE:HD13	2:L:557:GLU:HB2	2.04	0.40
2:L:856:THR:HG23	2:L:866:HIS:NE2	2.36	0.40
2:L:890:LYS:HB2	2:L:890:LYS:HE3	1.79	0.40
1:A:1104:GLN:HG3	1:A:1105:ASP:O	2.22	0.40
1:A:12:THR:CG2	2:G:2066:LYS:HD3	2.51	0.40
1:A:1527:THR:OG1	1:A:1530:ASN:HB3	2.21	0.40
1:A:1268:SER:OG	1:A:1686:PRO:HD3	2.21	0.40
1:A:47:ILE:CD1	2:G:1818:PHE:CD1	3.04	0.40
1:A:996:VAL:HG11	1:A:1578:LEU:HD11	2.04	0.40
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.39	0.40
1:B:1363:MET:HE3	1:B:1368:ALA:CB	2.52	0.40
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.21	0.40
1:B:1599:MET:HA	1:B:1602:PHE:HD2	1.87	0.40
1:B:904:GLY:HA2	1:B:906:GLN:CD	2.41	0.40
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.21	0.40
1:C:1440:TYR:O	1:C:1444:GLN:HB2	2.21	0.40
1:C:1466:TYR:CE2	1:C:1470:ARG:HG3	2.56	0.40
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.21	0.40
1:C:681:ILE:HG23	1:C:681:ILE:O	2.21	0.40
1:C:759:ILE:N	1:C:759:ILE:HD12	2.37	0.40
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	2.03	0.40
1:E:1191:LEU:HA	1:E:1191:LEU:HD23	1.95	0.40
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.21	0.40
1:E:405:TRP:CH2	1:E:1609:SER:HB3	2.56	0.40
1:E:612:ILE:CD1	1:E:628:TYR:HD2	2.34	0.40
1:E:782:LYS:NZ	1:E:786:LYS:HD2	2.35	0.40
1:E:650:PHE:CE2	1:E:881:LEU:HD22	2.57	0.40
1:E:636:TYR:CE1	1:E:883:LEU:HD23	2.57	0.40
1:F:1199:LEU:HD23	1:F:1199:LEU:O	2.22	0.40
1:F:1301:VAL:HG22	1:F:1302:CYS:H	1.86	0.40
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.41	0.40
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.55	0.40
2:G:1083:ILE:H	2:G:1083:ILE:HG13	1.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.22	0.40
2:G:1745:LEU:HD12	2:G:1746:THR:H	1.86	0.40
2:G:1951:ILE:H	2:G:1951:ILE:HD12	1.86	0.40
2:G:2073:ASN:O	2:G:2076:LYS:N	2.54	0.40
2:G:220:GLN:O	2:G:222:PRO:HD3	2.20	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.85	0.40
2:G:789:TYR:O	2:G:792:LEU:HB3	2.22	0.40
2:G:797:SER:O	2:G:802:TYR:HB2	2.21	0.40
2:H:111:ARG:HB2	2:H:111:ARG:HE	1.71	0.40
2:H:1236:LEU:HD12	2:H:1242:ILE:HA	2.03	0.40
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.87	0.40
2:H:1313:ARG:HG3	2:H:1394:VAL:CG1	2.52	0.40
2:H:169:ILE:HG22	2:H:279:PHE:CD2	2.57	0.40
2:H:1706:MET:HE2	2:H:1738:VAL:CG1	2.51	0.40
2:H:1734:ILE:HG13	2:H:1735:ILE:N	2.36	0.40
2:H:1891:ILE:HG22	2:H:1892:SER:N	2.36	0.40
2:H:1933:LEU:HB3	2:H:1987:VAL:HB	2.03	0.40
2:H:221:TYR:N	2:H:222:PRO:HD3	2.35	0.40
2:H:472:THR:HG22	2:H:473:LYS:N	2.37	0.40
2:H:747:ARG:NH2	2:H:757:PHE:CE1	2.90	0.40
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.22	0.40
2:H:875:PHE:HE2	2:H:906:LEU:HD23	1.87	0.40
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.34	0.40
2:I:1067:LEU:CB	4:I:2101:FMN:HM82	2.52	0.40
2:I:138:ARG:HB2	2:I:192:THR:HA	2.03	0.40
2:I:1488:LEU:HB2	2:I:1490:PHE:HE1	1.86	0.40
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.21	0.40
2:I:1702:GLN:HB2	2:I:1702:GLN:HE21	1.68	0.40
2:I:1845:VAL:CB	2:I:1856:LEU:HD22	2.52	0.40
2:I:1865:LEU:O	2:I:1869:VAL:HG22	2.21	0.40
2:I:637:ASN:ND2	2:I:639:GLN:HB3	2.37	0.40
2:J:48:LEU:HD11	2:J:101:VAL:HG21	2.03	0.40
2:J:1250:ARG:H	2:J:1250:ARG:HD3	1.86	0.40
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.80	0.40
2:J:1342:PHE:HE2	2:J:1391:VAL:CB	2.34	0.40
2:J:1350:ILE:HD13	2:J:1610:MET:SD	2.62	0.40
2:J:1645:PRO:O	2:J:1646:ASN:HB2	2.21	0.40
2:J:186:LEU:HD23	2:J:186:LEU:HA	1.82	0.40
2:J:1873:ARG:NH1	2:J:2002:ASP:CB	2.83	0.40
2:J:1880:ASN:HB3	2:J:1881:TYR:CE1	2.57	0.40
2:J:497:ASP:HA	2:J:498:PRO:HD3	1.92	0.40

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

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

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

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

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

All (324) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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

5.3.2 Protein sidechains [i](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.3.3 RNA ⓘ

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

18 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	NAP	J	2102	-	45,52,52	1.30	4 (8%)	56,80,80	1.13	1 (1%)
3	NAP	C	1901	-	45,52,52	1.33	4 (8%)	56,80,80	1.20	2 (3%)
3	NAP	E	1901	-	45,52,52	1.28	3 (6%)	56,80,80	1.26	4 (7%)
4	FMN	K	2101	-	31,33,33	6.85	20 (64%)	40,50,50	1.69	4 (10%)
4	FMN	H	2101	-	31,33,33	6.61	19 (61%)	40,50,50	1.71	5 (12%)
4	FMN	I	2101	-	31,33,33	6.61	19 (61%)	40,50,50	1.75	6 (15%)
4	FMN	L	2101	-	31,33,33	6.62	19 (61%)	40,50,50	1.75	5 (12%)
4	FMN	G	2101	-	31,33,33	6.59	19 (61%)	40,50,50	1.84	6 (15%)
3	NAP	K	2102	-	45,52,52	1.22	4 (8%)	56,80,80	1.09	2 (3%)
3	NAP	I	2102	-	45,52,52	1.18	3 (6%)	56,80,80	1.14	1 (1%)
3	NAP	B	1901	-	45,52,52	1.25	3 (6%)	56,80,80	1.19	3 (5%)
3	NAP	G	2102	-	45,52,52	1.26	4 (8%)	56,80,80	1.12	2 (3%)
3	NAP	F	1901	-	45,52,52	1.30	3 (6%)	56,80,80	1.20	3 (5%)
4	FMN	J	2101	-	31,33,33	6.92	20 (64%)	40,50,50	1.88	4 (10%)
3	NAP	L	2102	-	45,52,52	1.24	4 (8%)	56,80,80	1.11	1 (1%)
3	NAP	D	1901	-	45,52,52	1.44	4 (8%)	56,80,80	1.26	2 (3%)
3	NAP	H	2102	-	45,52,52	1.27	4 (8%)	56,80,80	1.12	1 (1%)
3	NAP	A	1901	-	45,52,52	1.29	3 (6%)	56,80,80	1.18	3 (5%)

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

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

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

All (159) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	2101	FMN	C4A-C10	15.95	1.54	1.38
4	K	2101	FMN	C4A-C10	15.01	1.53	1.38
4	I	2101	FMN	C4A-C10	14.92	1.53	1.38
4	L	2101	FMN	C4A-C10	14.89	1.53	1.38
4	H	2101	FMN	C4A-C10	14.71	1.53	1.38
4	G	2101	FMN	C4A-C10	14.69	1.53	1.38
4	K	2101	FMN	C4A-N5	12.48	1.51	1.33
4	K	2101	FMN	C10-N1	12.40	1.49	1.33
4	J	2101	FMN	C4A-N5	12.20	1.50	1.33
4	H	2101	FMN	C4A-N5	12.10	1.50	1.33
4	I	2101	FMN	C4A-N5	12.07	1.50	1.33
4	J	2101	FMN	C10-N1	12.02	1.48	1.33
4	L	2101	FMN	C4A-N5	11.85	1.50	1.33
4	G	2101	FMN	C4A-N5	11.73	1.50	1.33
4	L	2101	FMN	C10-N1	11.66	1.48	1.33
4	G	2101	FMN	C10-N1	11.54	1.48	1.33
4	I	2101	FMN	C10-N1	11.39	1.47	1.33
4	H	2101	FMN	C10-N1	11.12	1.47	1.33
4	J	2101	FMN	C6-C5A	10.98	1.58	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	K	2101	FMN	C6-C5A	10.78	1.58	1.41
4	G	2101	FMN	C6-C5A	10.72	1.58	1.41
4	L	2101	FMN	C6-C5A	10.71	1.58	1.41
4	H	2101	FMN	C6-C5A	10.63	1.58	1.41
4	I	2101	FMN	C6-C5A	10.62	1.58	1.41
4	J	2101	FMN	C4-N3	10.00	1.50	1.33
4	H	2101	FMN	C9-C9A	9.79	1.60	1.40
4	J	2101	FMN	C9-C9A	9.78	1.60	1.40
4	K	2101	FMN	C4-N3	9.77	1.50	1.33
4	K	2101	FMN	C9-C9A	9.75	1.60	1.40
4	L	2101	FMN	C5A-N5	9.54	1.51	1.35
4	I	2101	FMN	C9-C9A	9.52	1.59	1.40
4	G	2101	FMN	C9-C9A	9.45	1.59	1.40
4	L	2101	FMN	C9-C9A	9.44	1.59	1.40
4	I	2101	FMN	C4-N3	9.34	1.49	1.33
4	H	2101	FMN	C4-N3	9.31	1.49	1.33
4	G	2101	FMN	C4-N3	9.28	1.49	1.33
4	L	2101	FMN	C4-N3	9.27	1.49	1.33
4	G	2101	FMN	C5A-N5	9.19	1.50	1.35
4	I	2101	FMN	C5A-N5	9.08	1.50	1.35
4	J	2101	FMN	C5A-N5	9.07	1.50	1.35
4	H	2101	FMN	C5A-N5	8.99	1.50	1.35
4	K	2101	FMN	C5A-N5	8.98	1.50	1.35
4	K	2101	FMN	C2-N1	8.67	1.55	1.38
4	I	2101	FMN	C9A-N10	8.39	1.49	1.38
4	K	2101	FMN	C9A-N10	8.34	1.49	1.38
4	H	2101	FMN	C9A-N10	8.13	1.49	1.38
4	L	2101	FMN	C9A-N10	8.11	1.49	1.38
4	J	2101	FMN	C2-N1	8.02	1.54	1.38
4	J	2101	FMN	C9-C8	7.99	1.58	1.37
4	I	2101	FMN	C2-N1	7.99	1.54	1.38
4	G	2101	FMN	C2-N1	7.96	1.53	1.38
4	J	2101	FMN	C6-C7	7.94	1.58	1.37
4	K	2101	FMN	C6-C7	7.91	1.57	1.37
4	G	2101	FMN	C9A-N10	7.89	1.49	1.38
4	H	2101	FMN	C6-C7	7.82	1.57	1.37
4	L	2101	FMN	C2-N1	7.69	1.53	1.38
4	J	2101	FMN	C8-C7	7.64	1.59	1.40
4	H	2101	FMN	C2-N1	7.61	1.53	1.38
4	G	2101	FMN	C6-C7	7.60	1.57	1.37
4	G	2101	FMN	C9-C8	7.52	1.56	1.37
4	I	2101	FMN	C6-C7	7.47	1.56	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	2101	FMN	C6-C7	7.44	1.56	1.37
4	J	2101	FMN	C9A-N10	7.44	1.48	1.38
4	K	2101	FMN	C9-C8	7.42	1.56	1.37
4	H	2101	FMN	C9-C8	7.36	1.56	1.37
4	I	2101	FMN	C9-C8	7.22	1.56	1.37
4	J	2101	FMN	C2-N3	7.18	1.52	1.38
4	L	2101	FMN	C9-C8	7.18	1.56	1.37
4	K	2101	FMN	C4-C4A	7.08	1.53	1.41
4	L	2101	FMN	C2-N3	7.05	1.52	1.38
4	K	2101	FMN	C2-N3	6.94	1.51	1.38
4	H	2101	FMN	C8-C7	6.91	1.58	1.40
4	K	2101	FMN	C8-C7	6.91	1.58	1.40
4	I	2101	FMN	C2-N3	6.86	1.51	1.38
4	L	2101	FMN	C8-C7	6.85	1.58	1.40
4	H	2101	FMN	C2-N3	6.83	1.51	1.38
4	J	2101	FMN	O4-C4	6.77	1.41	1.24
4	G	2101	FMN	C2-N3	6.72	1.51	1.38
4	J	2101	FMN	C9A-C5A	6.71	1.56	1.42
4	K	2101	FMN	O4-C4	6.67	1.41	1.24
4	G	2101	FMN	O4-C4	6.64	1.41	1.24
4	I	2101	FMN	C8-C7	6.59	1.57	1.40
4	G	2101	FMN	C8-C7	6.52	1.57	1.40
4	I	2101	FMN	O4-C4	6.48	1.40	1.24
4	H	2101	FMN	O4-C4	6.47	1.40	1.24
4	L	2101	FMN	O4-C4	6.34	1.40	1.24
4	I	2101	FMN	C4-C4A	6.26	1.52	1.41
4	L	2101	FMN	C9A-C5A	6.25	1.55	1.42
4	J	2101	FMN	C4-C4A	6.16	1.52	1.41
4	H	2101	FMN	C9A-C5A	6.07	1.54	1.42
4	G	2101	FMN	C4-C4A	6.03	1.51	1.41
4	G	2101	FMN	C9A-C5A	5.99	1.54	1.42
4	K	2101	FMN	C9A-C5A	5.99	1.54	1.42
4	H	2101	FMN	C4-C4A	5.89	1.51	1.41
4	L	2101	FMN	C4-C4A	5.77	1.51	1.41
4	I	2101	FMN	C9A-C5A	5.74	1.54	1.42
3	D	1901	NAP	C2N-N1N	5.74	1.41	1.35
3	C	1901	NAP	C2N-N1N	4.79	1.40	1.35
3	F	1901	NAP	C2N-N1N	4.73	1.40	1.35
3	A	1901	NAP	C2N-N1N	4.62	1.40	1.35
3	J	2102	NAP	C2N-N1N	4.46	1.40	1.35
3	B	1901	NAP	C2N-N1N	4.45	1.40	1.35
3	G	2102	NAP	C2N-N1N	4.36	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2102	NAP	C2N-N1N	4.36	1.40	1.35
3	E	1901	NAP	C2A-N3A	4.35	1.39	1.32
3	D	1901	NAP	C2A-N3A	4.34	1.39	1.32
3	C	1901	NAP	C2A-N3A	4.33	1.39	1.32
3	E	1901	NAP	C2N-N1N	4.30	1.40	1.35
3	H	2102	NAP	C2N-N1N	4.28	1.40	1.35
3	L	2102	NAP	C2A-N3A	4.21	1.38	1.32
3	A	1901	NAP	C2A-N3A	4.18	1.38	1.32
3	L	2102	NAP	C2N-N1N	4.03	1.39	1.35
3	G	2102	NAP	C2A-N3A	4.01	1.38	1.32
3	J	2102	NAP	C2A-N3A	3.93	1.38	1.32
3	H	2102	NAP	C2A-N3A	3.90	1.38	1.32
3	K	2102	NAP	C2A-N3A	3.86	1.38	1.32
3	B	1901	NAP	C2A-N3A	3.83	1.38	1.32
3	I	2102	NAP	C2A-N3A	3.80	1.38	1.32
3	I	2102	NAP	C2N-N1N	3.79	1.39	1.35
3	F	1901	NAP	C2A-N3A	3.68	1.38	1.32
4	J	2101	FMN	C5'-C4'	3.39	1.56	1.51
4	J	2101	FMN	P-O3P	3.10	1.66	1.54
4	K	2101	FMN	P-O3P	3.10	1.66	1.54
4	G	2101	FMN	P-O2P	3.08	1.66	1.54
4	H	2101	FMN	C5'-C4'	3.08	1.56	1.51
4	K	2101	FMN	P-O2P	2.99	1.66	1.54
3	J	2102	NAP	C6N-N1N	2.94	1.42	1.35
4	H	2101	FMN	P-O2P	2.91	1.66	1.54
3	F	1901	NAP	C2A-N1A	2.87	1.39	1.33
4	L	2101	FMN	P-O2P	2.82	1.65	1.54
4	H	2101	FMN	P-O3P	2.78	1.65	1.54
4	J	2101	FMN	P-O2P	2.78	1.65	1.54
4	K	2101	FMN	C5'-C4'	2.77	1.55	1.51
3	D	1901	NAP	C2A-N1A	2.76	1.39	1.33
4	L	2101	FMN	P-O3P	2.75	1.65	1.54
4	I	2101	FMN	P-O2P	2.74	1.65	1.54
4	G	2101	FMN	P-O3P	2.66	1.65	1.54
4	I	2101	FMN	P-O3P	2.66	1.65	1.54
4	L	2101	FMN	C5'-C4'	2.65	1.55	1.51
3	H	2102	NAP	C6N-N1N	2.58	1.41	1.35
3	B	1901	NAP	C2A-N1A	2.54	1.38	1.33
3	K	2102	NAP	C6N-N1N	2.54	1.41	1.35
3	C	1901	NAP	C2A-N1A	2.53	1.38	1.33
3	E	1901	NAP	C2A-N1A	2.53	1.38	1.33
3	L	2102	NAP	C2A-N1A	2.51	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	2101	FMN	C5'-C4'	2.49	1.55	1.51
4	J	2101	FMN	C8M-C8	2.46	1.55	1.51
3	A	1901	NAP	C2A-N1A	2.45	1.38	1.33
3	G	2102	NAP	C2A-N1A	2.45	1.38	1.33
3	H	2102	NAP	C2A-N1A	2.43	1.38	1.33
4	K	2101	FMN	P-O5'	2.38	1.67	1.60
3	G	2102	NAP	C6N-N1N	2.37	1.41	1.35
3	J	2102	NAP	C2A-N1A	2.35	1.38	1.33
3	K	2102	NAP	C2A-N1A	2.33	1.38	1.33
3	L	2102	NAP	C6N-N1N	2.29	1.41	1.35
3	I	2102	NAP	C2A-N1A	2.25	1.38	1.33
3	C	1901	NAP	C6N-N1N	2.04	1.40	1.35
4	I	2101	FMN	C5'-C4'	2.04	1.54	1.51
3	D	1901	NAP	C6N-N1N	2.00	1.40	1.35

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	2101	FMN	C4-N3-C2	7.31	121.32	115.14
4	G	2101	FMN	C4-N3-C2	7.31	121.31	115.14
4	L	2101	FMN	C4-N3-C2	6.73	120.82	115.14
4	H	2101	FMN	C4-N3-C2	6.73	120.82	115.14
4	I	2101	FMN	C4-N3-C2	6.36	120.51	115.14
3	I	2102	NAP	N3A-C2A-N1A	-5.93	119.41	128.68
3	D	1901	NAP	N3A-C2A-N1A	-5.90	119.45	128.68
3	G	2102	NAP	N3A-C2A-N1A	-5.69	119.78	128.68
3	J	2102	NAP	N3A-C2A-N1A	-5.68	119.80	128.68
3	L	2102	NAP	N3A-C2A-N1A	-5.63	119.88	128.68
3	H	2102	NAP	N3A-C2A-N1A	-5.59	119.93	128.68
3	E	1901	NAP	N3A-C2A-N1A	-5.59	119.94	128.68
4	K	2101	FMN	C4-N3-C2	5.58	119.85	115.14
3	F	1901	NAP	N3A-C2A-N1A	-5.47	120.13	128.68
3	K	2102	NAP	N3A-C2A-N1A	-5.38	120.28	128.68
3	C	1901	NAP	N3A-C2A-N1A	-5.37	120.29	128.68
3	A	1901	NAP	N3A-C2A-N1A	-5.19	120.56	128.68
3	C	1901	NAP	O4D-C1D-C2D	-4.95	99.69	106.93
3	B	1901	NAP	N3A-C2A-N1A	-4.88	121.05	128.68
3	D	1901	NAP	O4D-C1D-C2D	-4.76	99.98	106.93
4	J	2101	FMN	C1'-N10-C10	4.69	122.61	118.41
4	J	2101	FMN	C5A-C9A-N10	4.56	121.02	117.72
3	A	1901	NAP	O4D-C1D-C2D	-4.56	100.27	106.93
3	E	1901	NAP	O4D-C1D-C2D	-4.48	100.37	106.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1901	NAP	O4D-C1D-C2D	-4.35	100.56	106.93
4	I	2101	FMN	C5A-C9A-N10	4.13	120.71	117.72
4	H	2101	FMN	C5A-C9A-N10	4.11	120.69	117.72
3	F	1901	NAP	O4D-C1D-C2D	-4.03	101.03	106.93
4	L	2101	FMN	C1'-N10-C10	3.86	121.86	118.41
4	K	2101	FMN	C4A-N5-C5A	3.83	120.60	116.77
4	K	2101	FMN	C5A-C9A-N10	3.80	120.47	117.72
4	G	2101	FMN	C5A-C9A-N10	3.76	120.44	117.72
4	H	2101	FMN	C1'-N10-C10	3.72	121.74	118.41
4	K	2101	FMN	C1'-N10-C10	3.70	121.72	118.41
4	I	2101	FMN	C1'-N10-C10	3.48	121.53	118.41
4	I	2101	FMN	C4A-N5-C5A	3.47	120.24	116.77
4	L	2101	FMN	C4A-N5-C5A	3.44	120.21	116.77
4	L	2101	FMN	C5A-C9A-N10	3.42	120.19	117.72
4	G	2101	FMN	C1'-N10-C10	3.41	121.46	118.41
4	J	2101	FMN	C4A-C4-N3	-3.38	118.80	123.43
4	G	2101	FMN	C4A-N5-C5A	3.35	120.12	116.77
4	G	2101	FMN	C4A-C4-N3	-3.09	119.20	123.43
4	L	2101	FMN	C4A-C4-N3	-3.07	119.23	123.43
4	H	2101	FMN	C4A-C4-N3	-3.05	119.26	123.43
4	I	2101	FMN	C4A-C4-N3	-2.82	119.57	123.43
4	H	2101	FMN	C4A-N5-C5A	2.80	119.57	116.77
3	E	1901	NAP	O2N-PN-O1N	2.24	123.33	112.24
3	E	1901	NAP	O7N-C7N-C3N	2.18	122.24	119.63
4	G	2101	FMN	O4'-C4'-C5'	-2.17	105.03	109.92
3	G	2102	NAP	C6N-N1N-C2N	-2.15	120.02	121.97
3	A	1901	NAP	O7N-C7N-C3N	2.13	122.19	119.63
4	I	2101	FMN	O4'-C4'-C5'	-2.13	105.13	109.92
3	F	1901	NAP	O2N-PN-O1N	2.08	122.50	112.24
3	K	2102	NAP	C4A-C5A-N7A	-2.06	107.25	109.40
3	B	1901	NAP	C3N-C7N-N7N	-2.02	115.33	117.75

There are no chirality outliers.

All (158) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	J	2102	NAP	C5B-O5B-PA-O3
3	J	2102	NAP	C3B-C4B-C5B-O5B
3	J	2102	NAP	C2B-O2B-P2B-O1X
3	C	1901	NAP	C5B-O5B-PA-O3
3	C	1901	NAP	PA-O3-PN-O5D
3	C	1901	NAP	C5D-O5D-PN-O1N

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

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Mol	Chain	Res	Type	Atoms
3	D	1901	NAP	C5D-O5D-PN-O2N
3	H	2102	NAP	C5B-O5B-PA-O3
3	H	2102	NAP	C3B-C4B-C5B-O5B
3	H	2102	NAP	C2B-O2B-P2B-O1X
3	A	1901	NAP	C5B-O5B-PA-O3
3	A	1901	NAP	PA-O3-PN-O5D
3	A	1901	NAP	C5D-O5D-PN-O1N
3	A	1901	NAP	C5D-O5D-PN-O2N
4	K	2101	FMN	O3'-C3'-C4'-O4'
4	H	2101	FMN	O3'-C3'-C4'-O4'
4	I	2101	FMN	O3'-C3'-C4'-O4'
4	L	2101	FMN	O3'-C3'-C4'-O4'
4	G	2101	FMN	O3'-C3'-C4'-O4'
4	J	2101	FMN	O3'-C3'-C4'-O4'
3	C	1901	NAP	O4B-C4B-C5B-O5B
3	E	1901	NAP	O4B-C4B-C5B-O5B
3	F	1901	NAP	O4B-C4B-C5B-O5B
3	D	1901	NAP	O4B-C4B-C5B-O5B
3	A	1901	NAP	O4B-C4B-C5B-O5B
4	K	2101	FMN	C2'-C3'-C4'-O4'
4	H	2101	FMN	C2'-C3'-C4'-O4'
4	I	2101	FMN	C2'-C3'-C4'-O4'
4	L	2101	FMN	C2'-C3'-C4'-O4'
4	G	2101	FMN	C2'-C3'-C4'-O4'
4	J	2101	FMN	C2'-C3'-C4'-O4'
3	J	2102	NAP	C3B-C2B-O2B-P2B
3	K	2102	NAP	C3B-C2B-O2B-P2B
3	I	2102	NAP	C3B-C2B-O2B-P2B
3	G	2102	NAP	C3B-C2B-O2B-P2B
3	L	2102	NAP	C3B-C2B-O2B-P2B
3	H	2102	NAP	C3B-C2B-O2B-P2B
3	J	2102	NAP	O4B-C4B-C5B-O5B
3	C	1901	NAP	C3B-C4B-C5B-O5B
3	E	1901	NAP	C3B-C4B-C5B-O5B
3	K	2102	NAP	O4B-C4B-C5B-O5B
3	I	2102	NAP	O4B-C4B-C5B-O5B
3	B	1901	NAP	C3B-C4B-C5B-O5B
3	G	2102	NAP	O4B-C4B-C5B-O5B
3	F	1901	NAP	C3B-C4B-C5B-O5B
3	D	1901	NAP	C3B-C4B-C5B-O5B
3	H	2102	NAP	O4B-C4B-C5B-O5B
3	A	1901	NAP	C3B-C4B-C5B-O5B

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

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Mol	Chain	Res	Type	Atoms
3	G	2102	NAP	C1B-C2B-O2B-P2B
3	B	1901	NAP	C4D-C5D-O5D-PN
3	F	1901	NAP	C4D-C5D-O5D-PN
3	K	2102	NAP	C1B-C2B-O2B-P2B
3	I	2102	NAP	C1B-C2B-O2B-P2B
3	L	2102	NAP	C1B-C2B-O2B-P2B
3	H	2102	NAP	C1B-C2B-O2B-P2B
3	J	2102	NAP	C2B-O2B-P2B-O2X
3	C	1901	NAP	C5D-O5D-PN-O3
3	E	1901	NAP	C5D-O5D-PN-O3
3	K	2102	NAP	C2B-O2B-P2B-O2X
3	I	2102	NAP	C2B-O2B-P2B-O2X
3	B	1901	NAP	C5D-O5D-PN-O3
3	G	2102	NAP	C2B-O2B-P2B-O2X
3	F	1901	NAP	C5D-O5D-PN-O3
3	L	2102	NAP	C2B-O2B-P2B-O2X
3	D	1901	NAP	C5D-O5D-PN-O3
3	H	2102	NAP	C2B-O2B-P2B-O2X
3	A	1901	NAP	C5D-O5D-PN-O3
3	C	1901	NAP	PN-O3-PA-O2A
3	E	1901	NAP	PN-O3-PA-O2A
3	K	2102	NAP	PA-O3-PN-O1N
3	F	1901	NAP	PN-O3-PA-O2A
3	D	1901	NAP	PN-O3-PA-O2A
3	A	1901	NAP	PN-O3-PA-O2A
3	G	2102	NAP	C3D-C4D-C5D-O5D

There are no ring outliers.

18 monomers are involved in 147 short contacts:

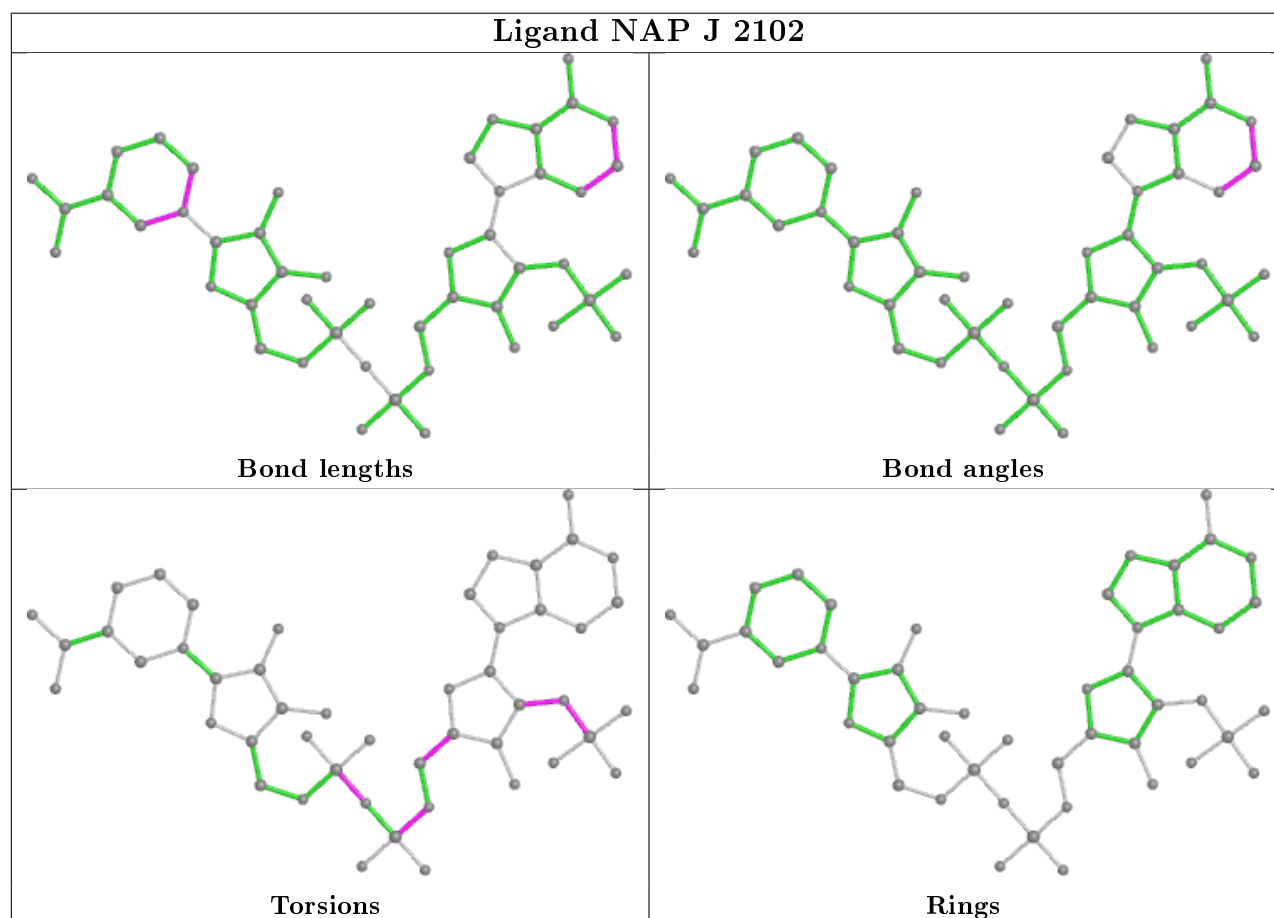
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	J	2102	NAP	4	0
3	C	1901	NAP	4	0
3	E	1901	NAP	4	0
4	K	2101	FMN	15	0
4	H	2101	FMN	16	0
4	I	2101	FMN	16	0
4	L	2101	FMN	15	0
4	G	2101	FMN	17	0
3	K	2102	NAP	4	0
3	I	2102	NAP	4	0
3	B	1901	NAP	5	0

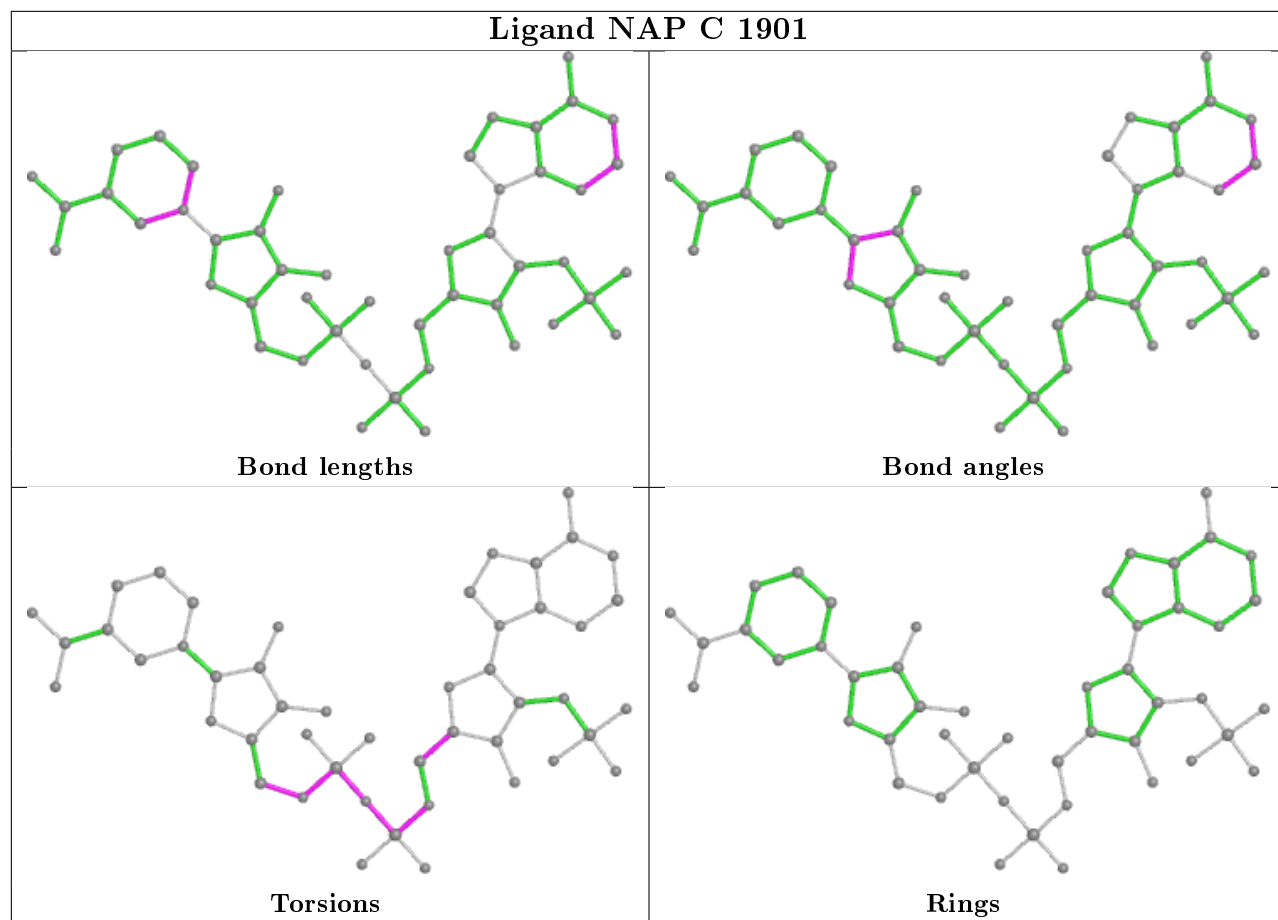
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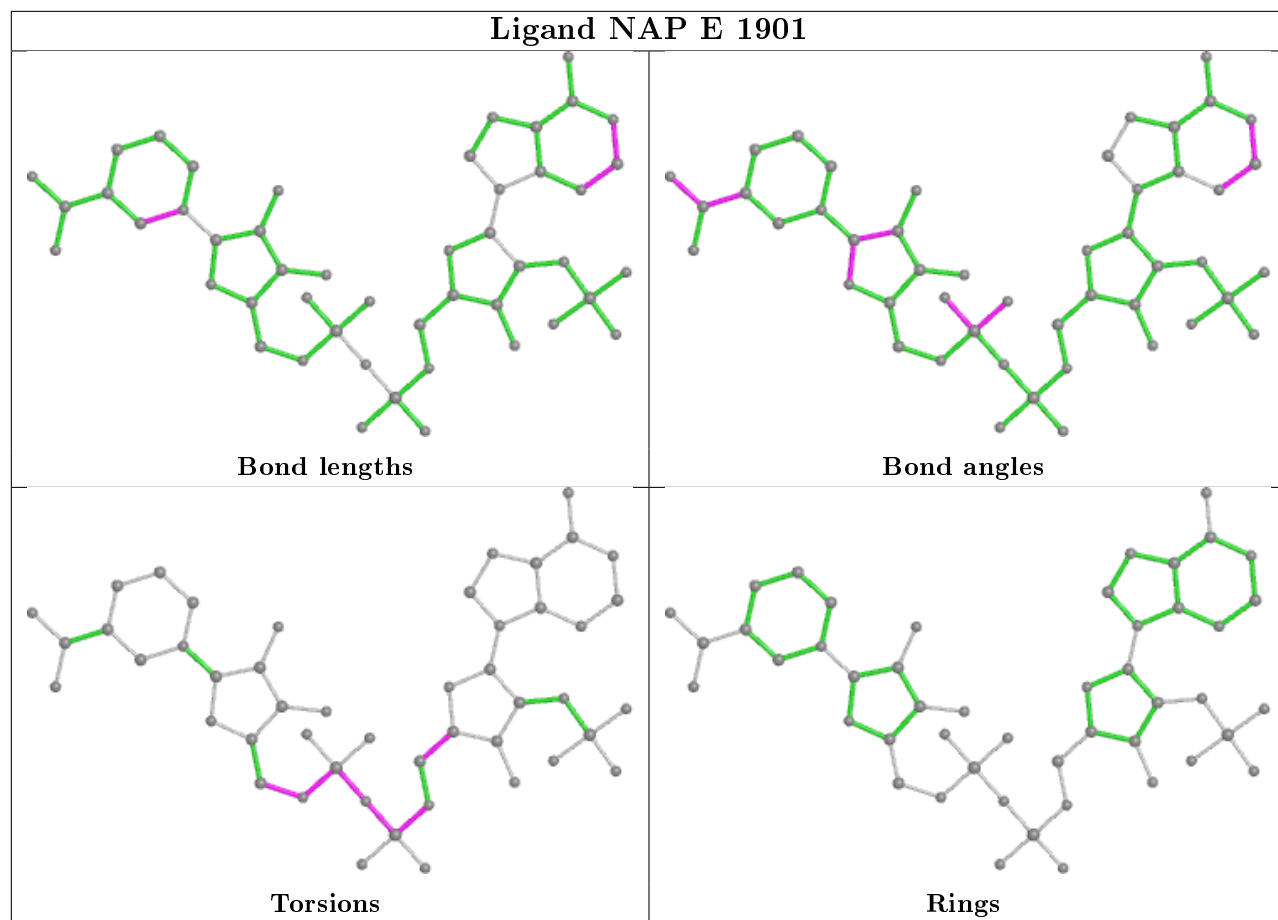
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	2102	NAP	4	0
3	F	1901	NAP	4	0
4	J	2101	FMN	15	0
3	L	2102	NAP	4	0
3	D	1901	NAP	6	0
3	H	2102	NAP	5	0
3	A	1901	NAP	5	0

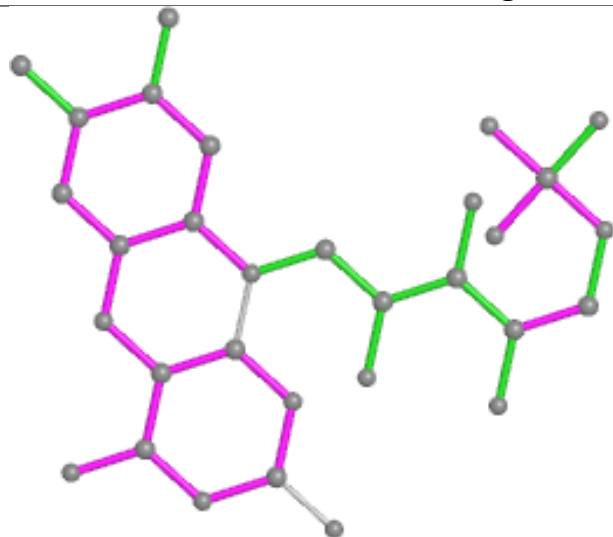
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



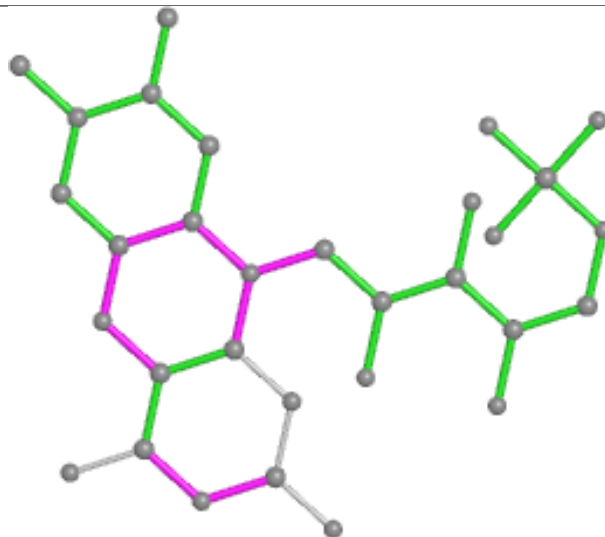




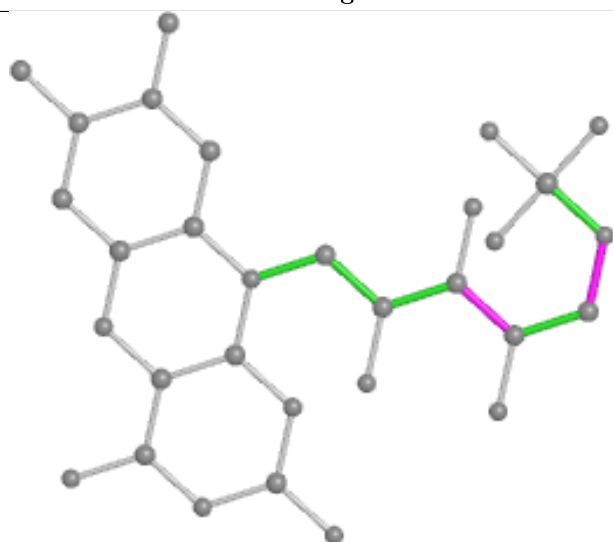
Ligand FMN K 2101



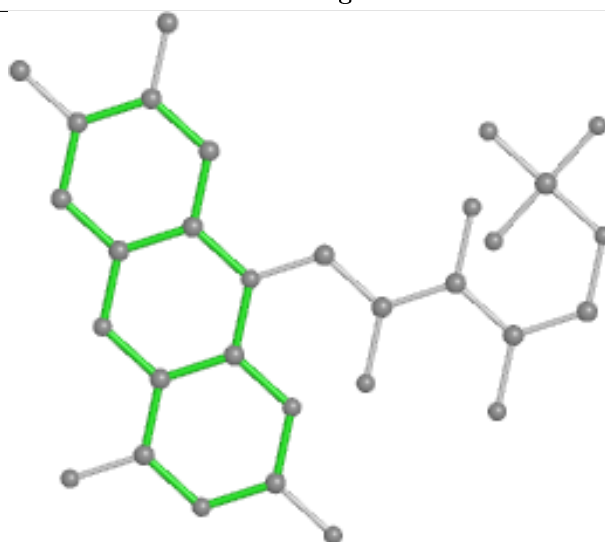
Bond lengths



Bond angles

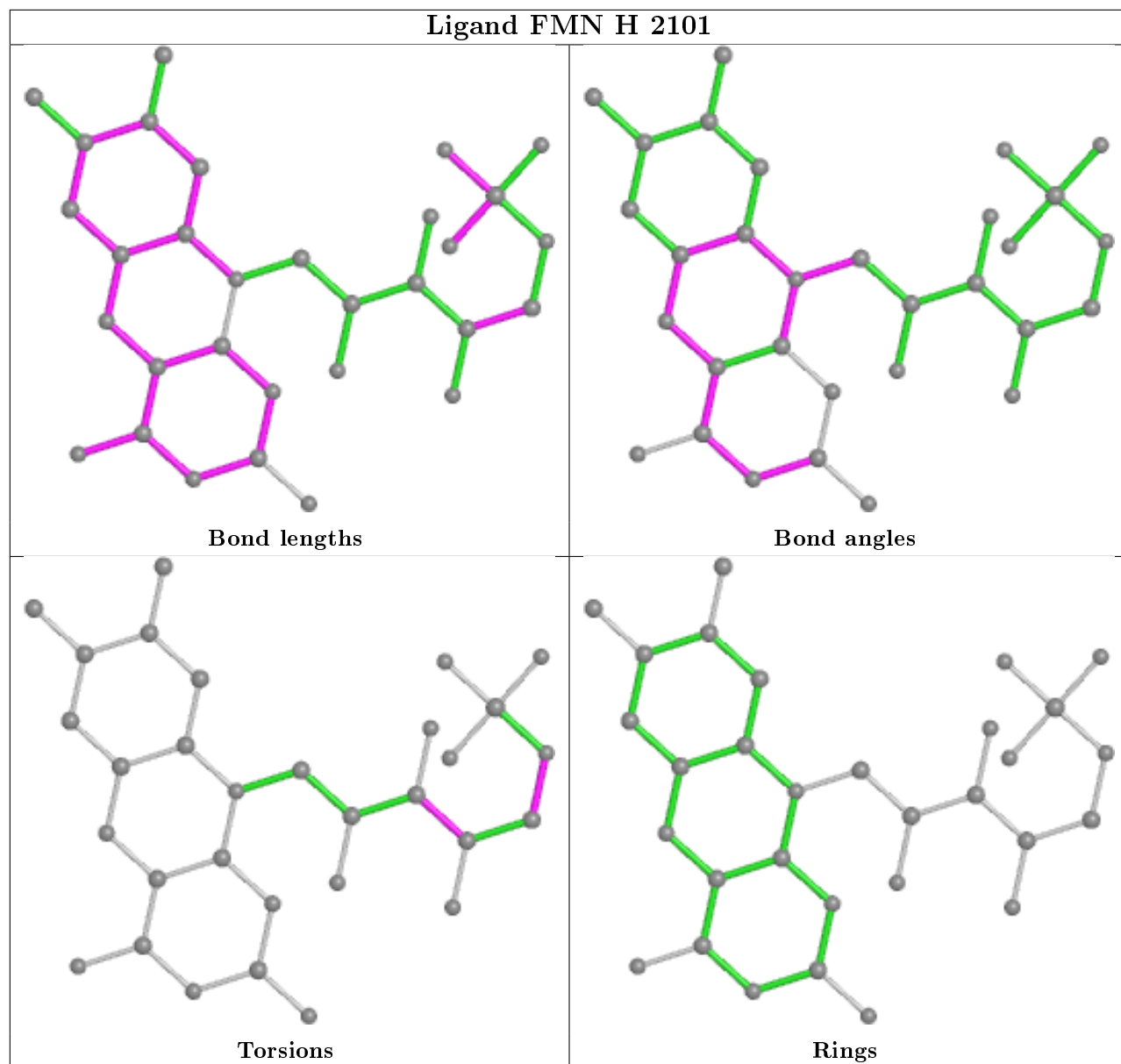


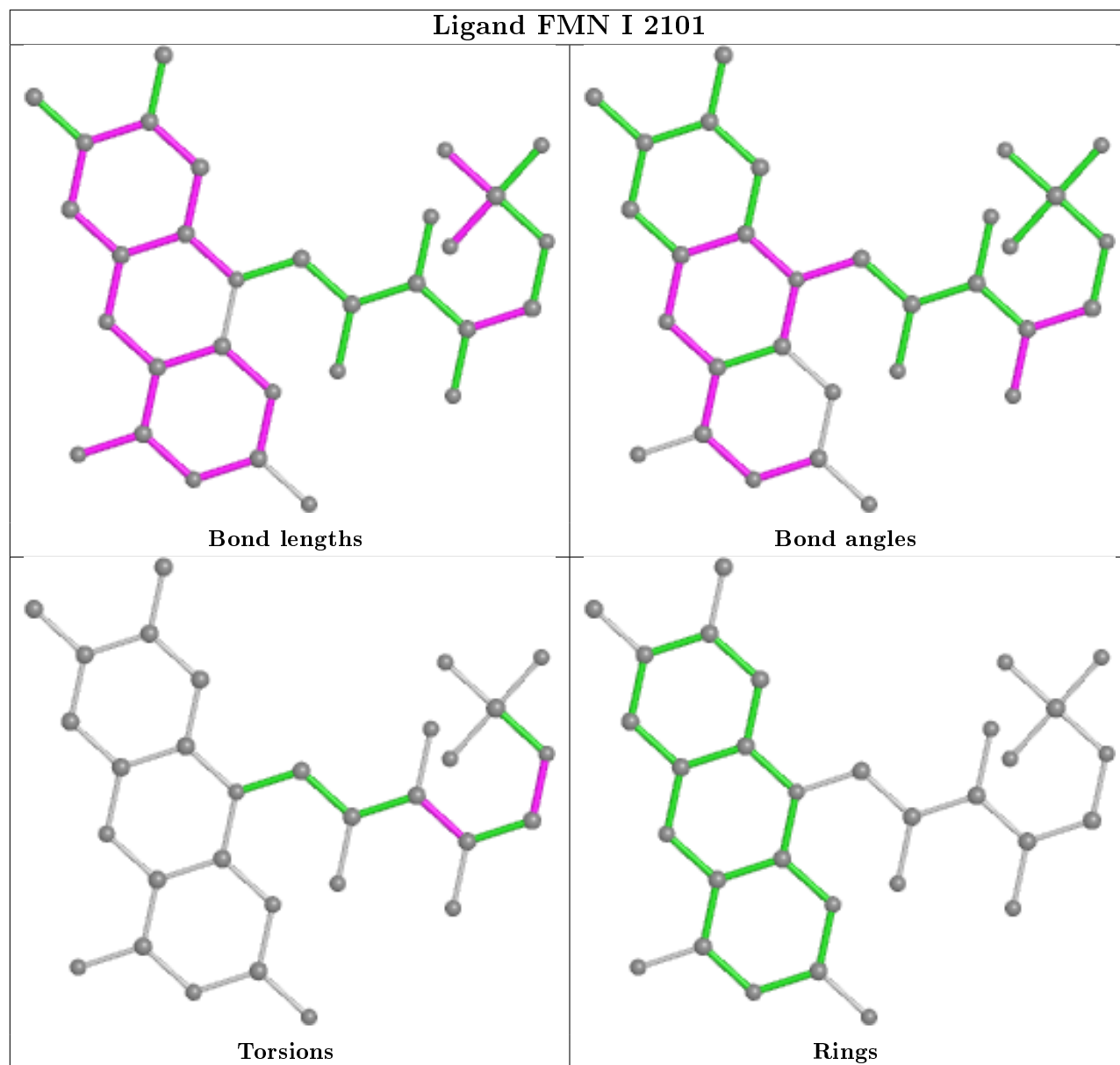
Torsions



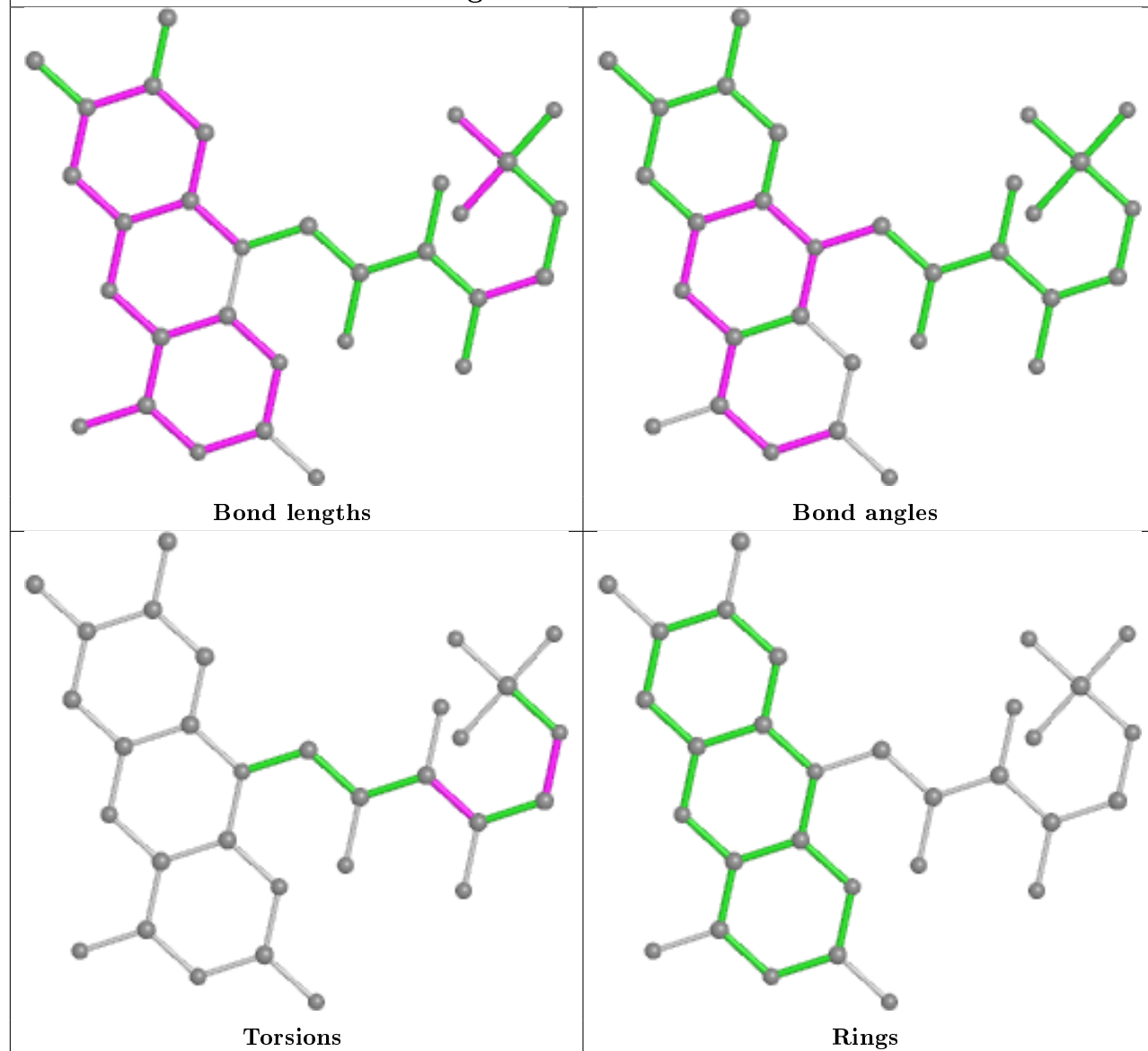
Rings

Ligand FMN H 2101

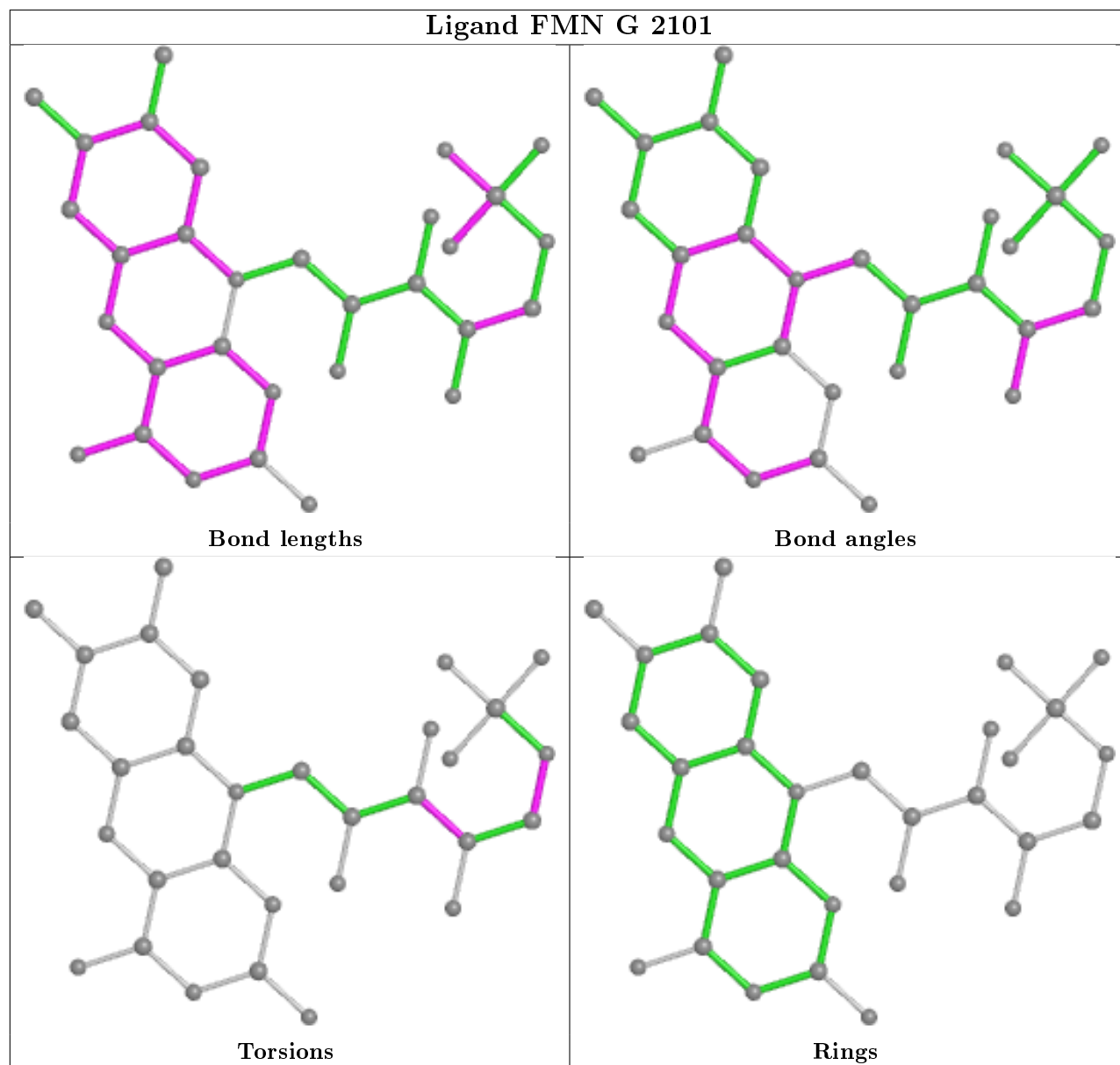


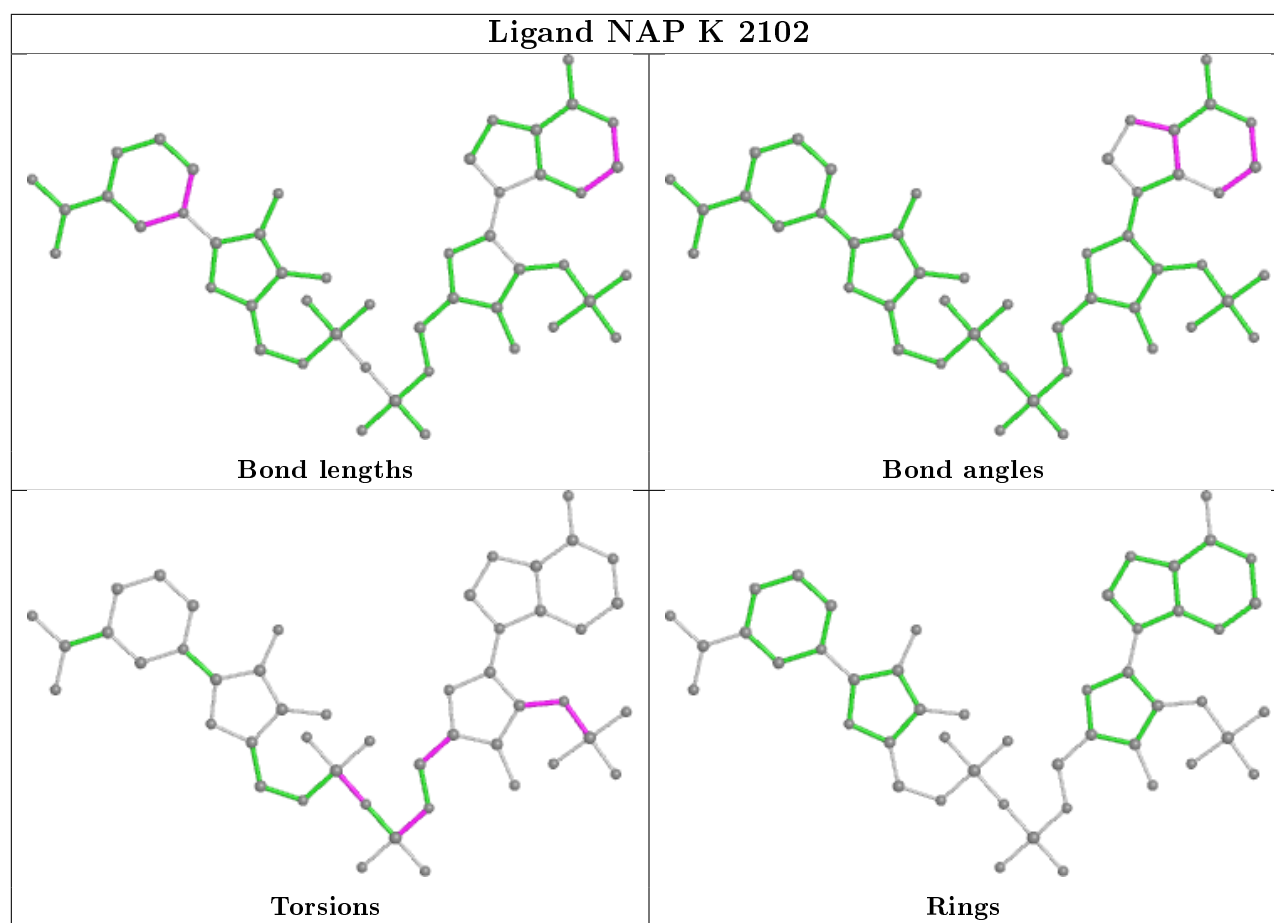


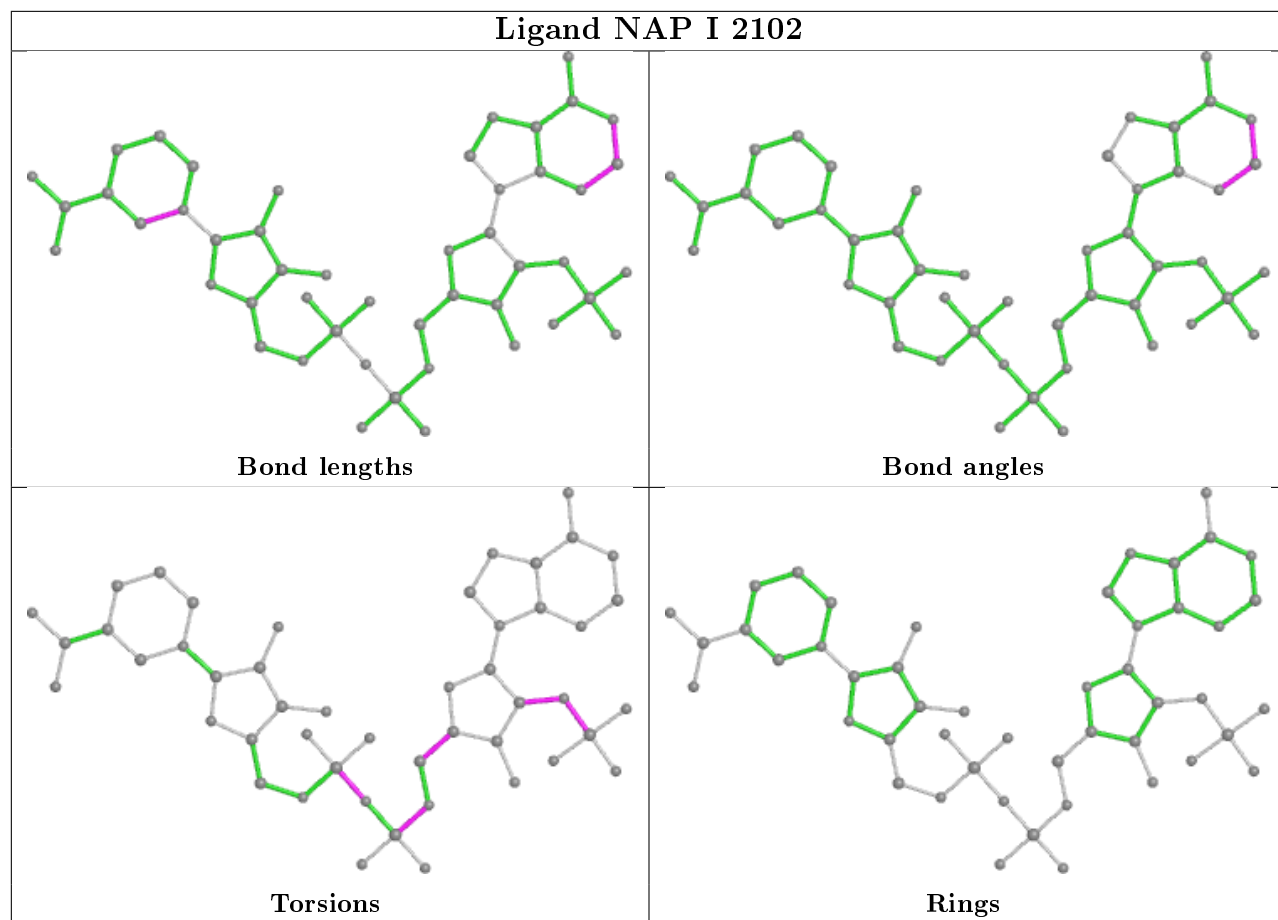
Ligand FMN L 2101

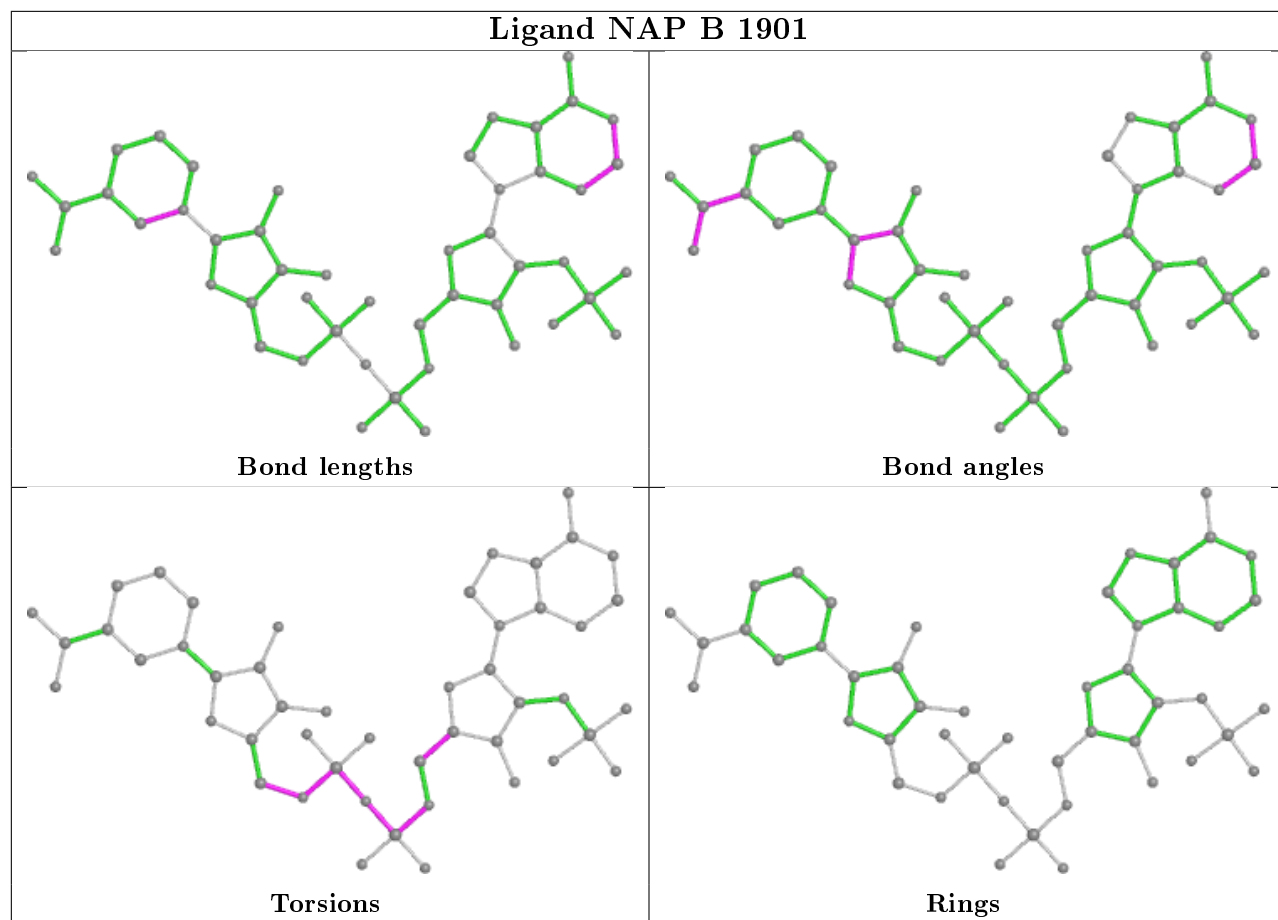


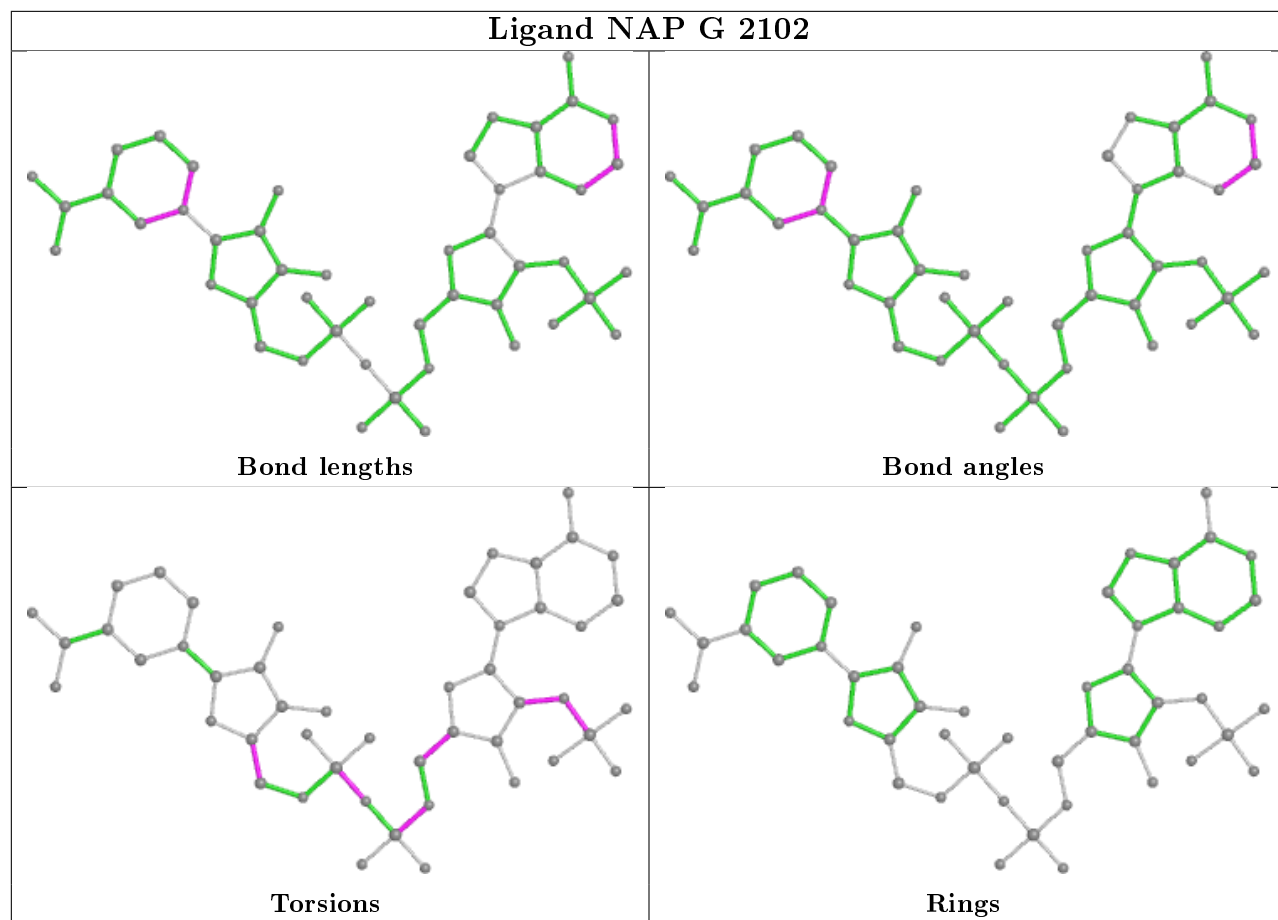
Ligand FMN G 2101

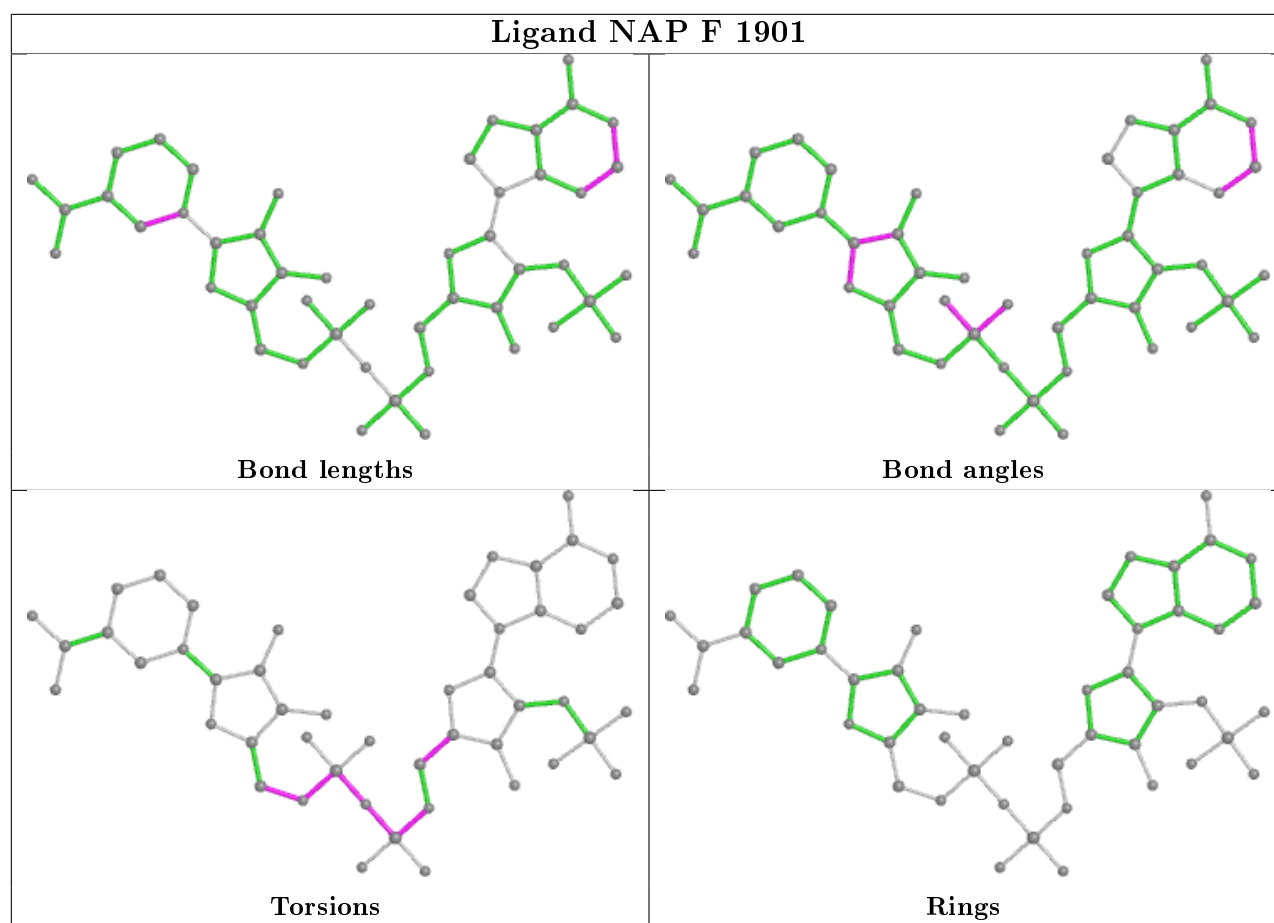


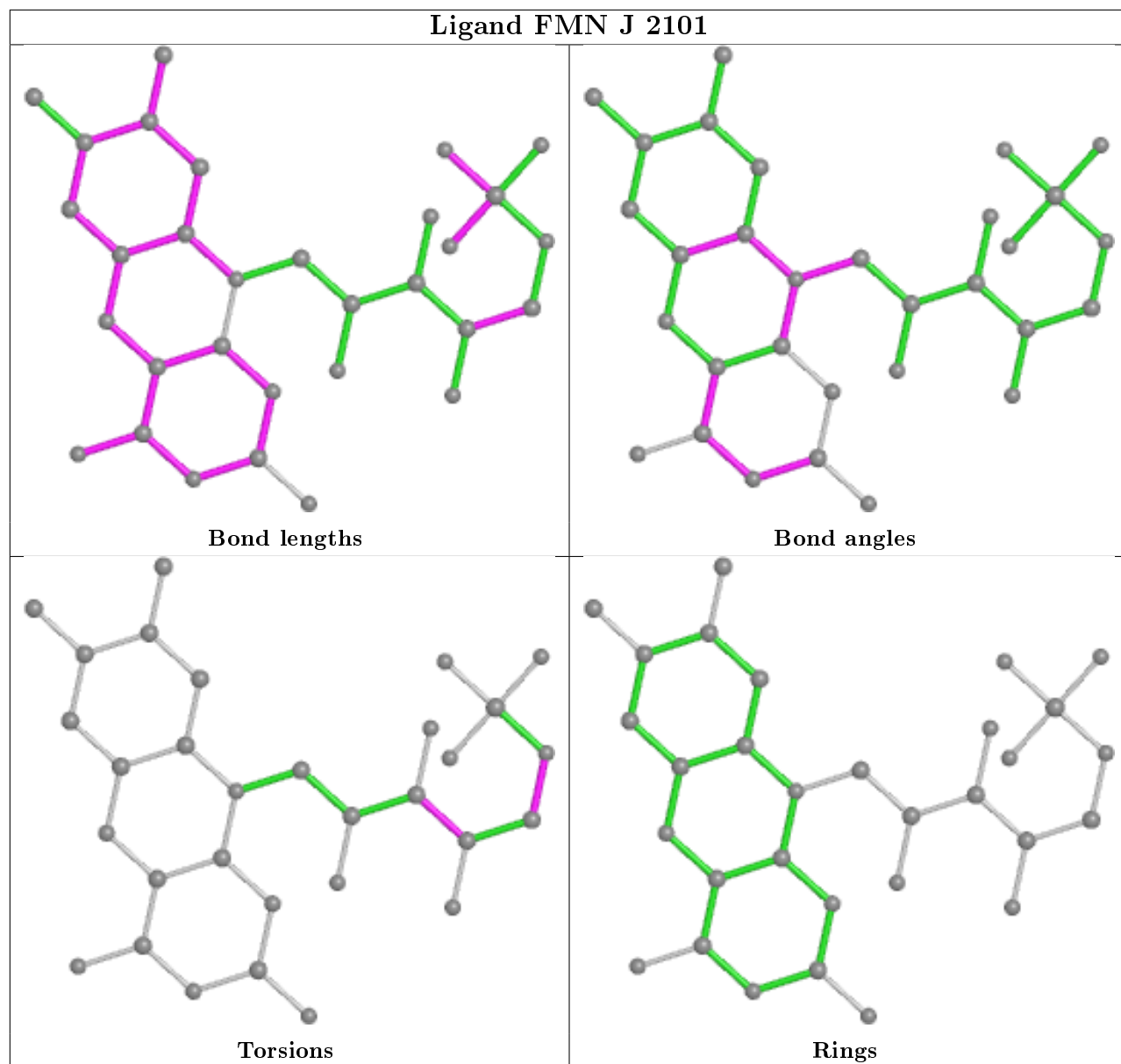


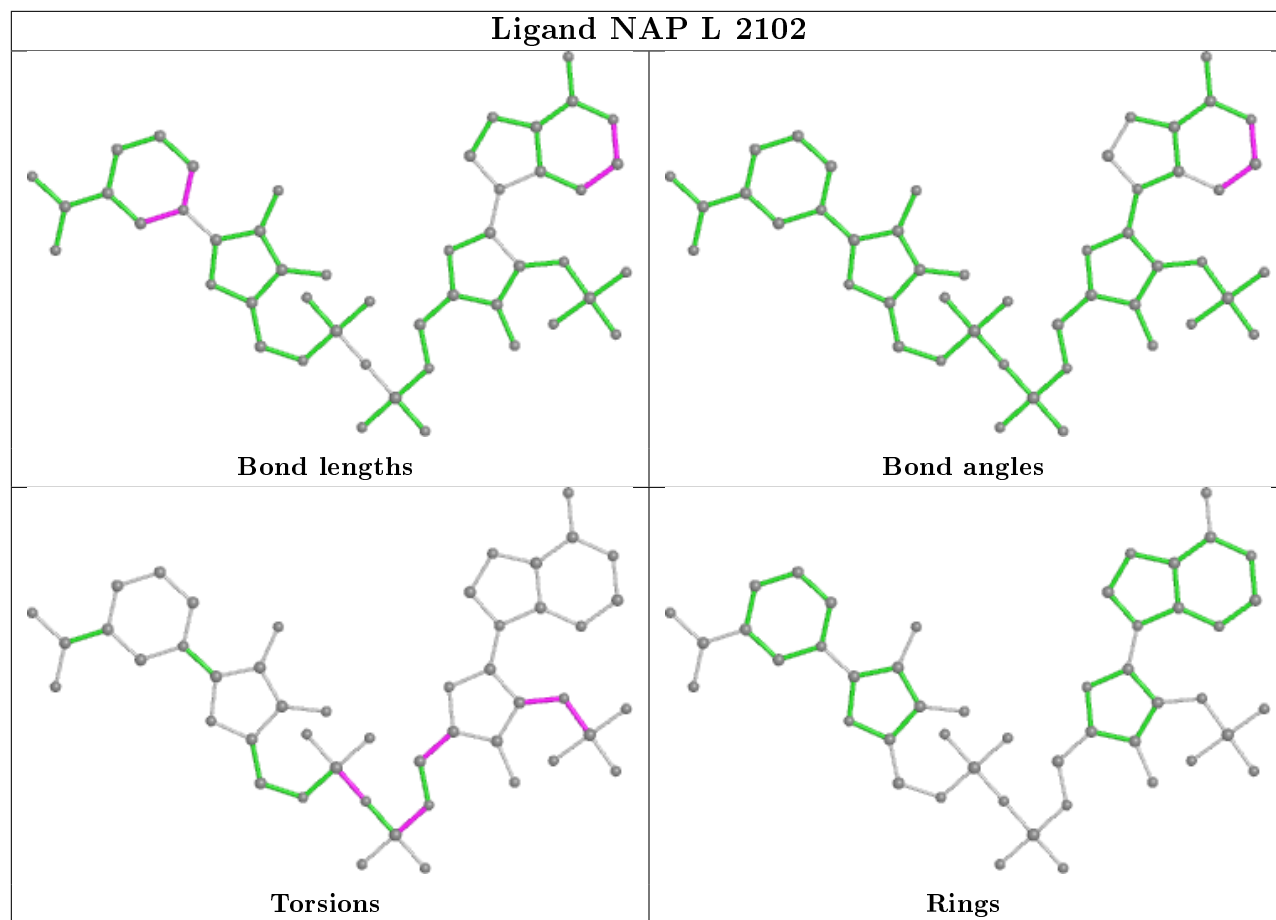


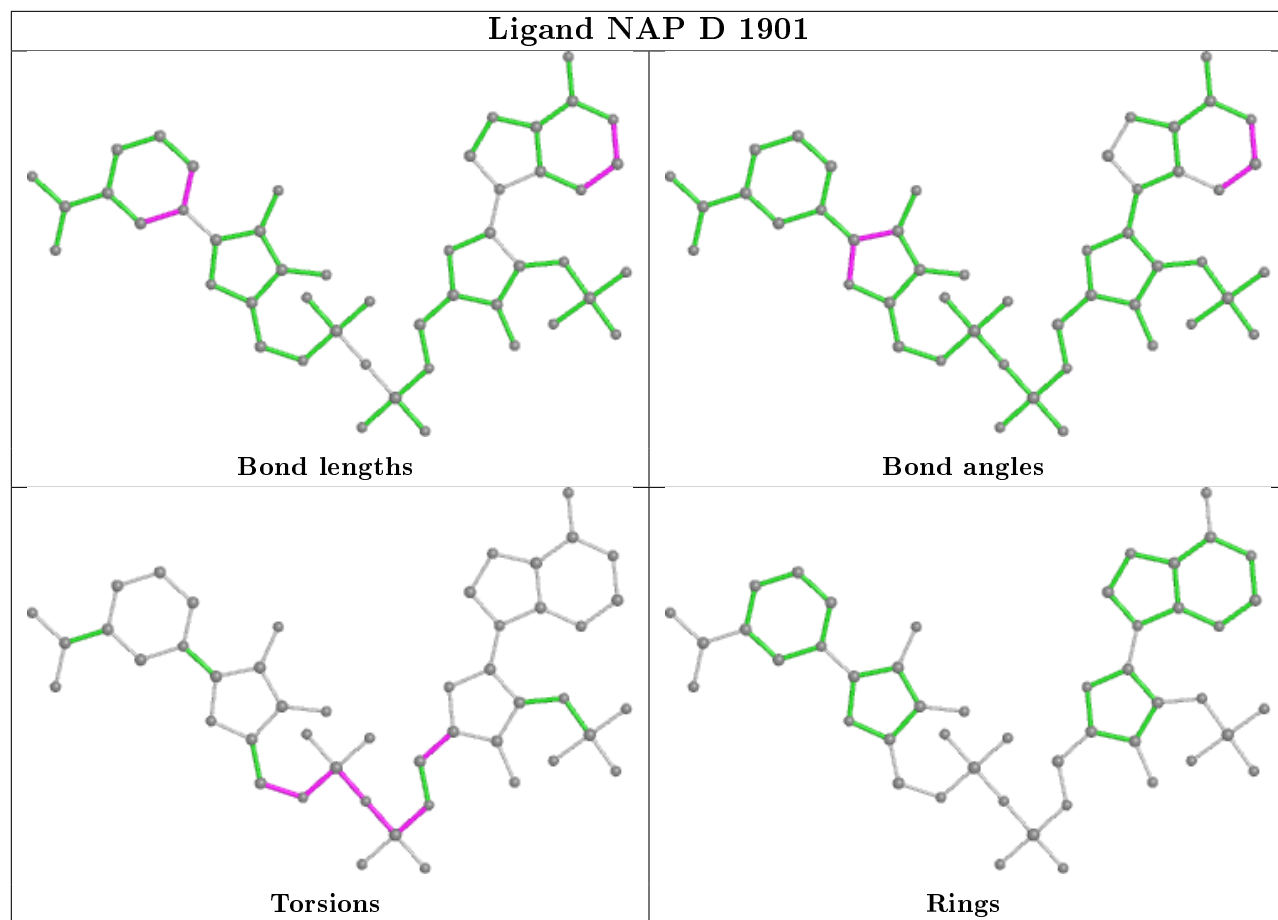


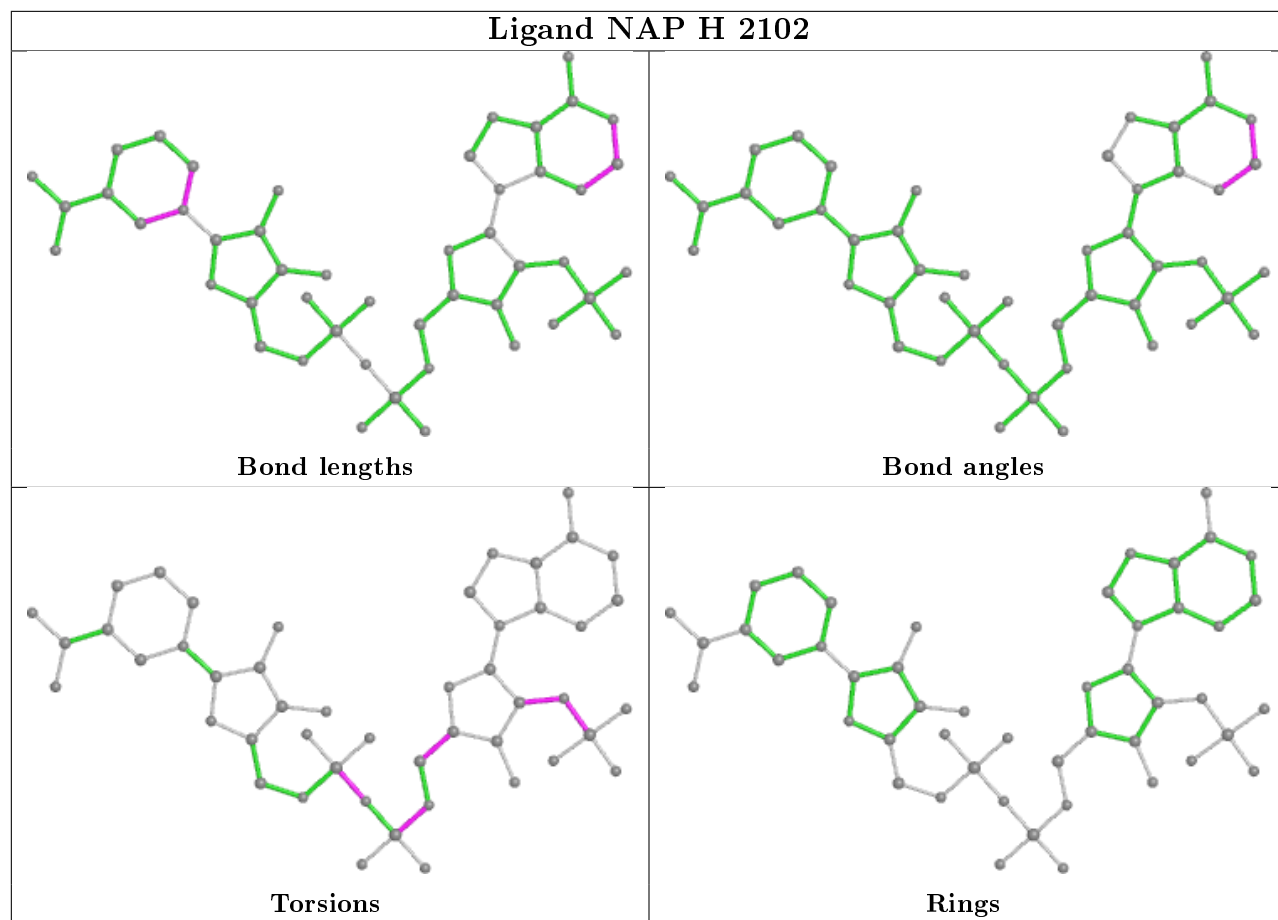


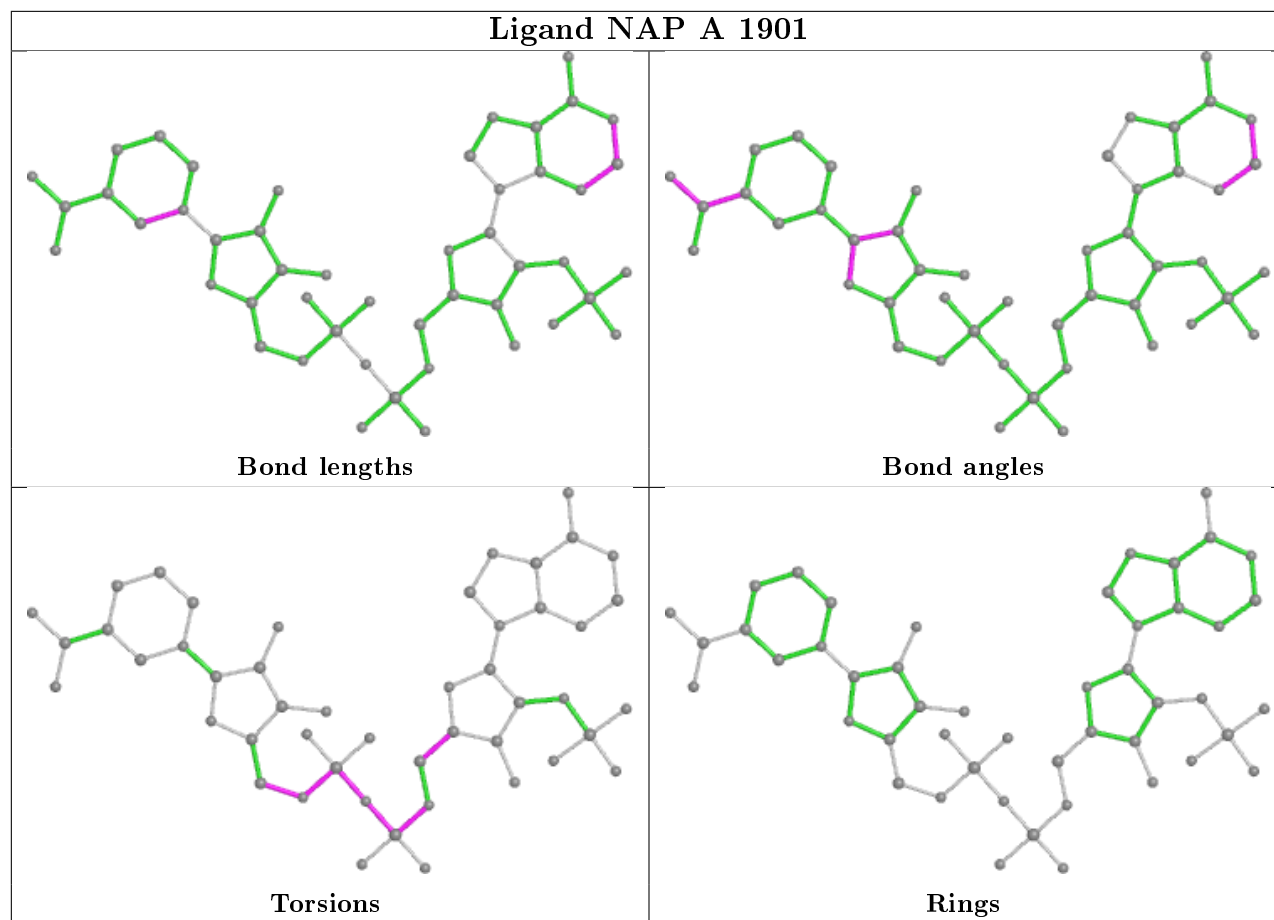












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

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

All (1748) RSRZ outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6.3 Carbohydrates [i](#)

There are no 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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

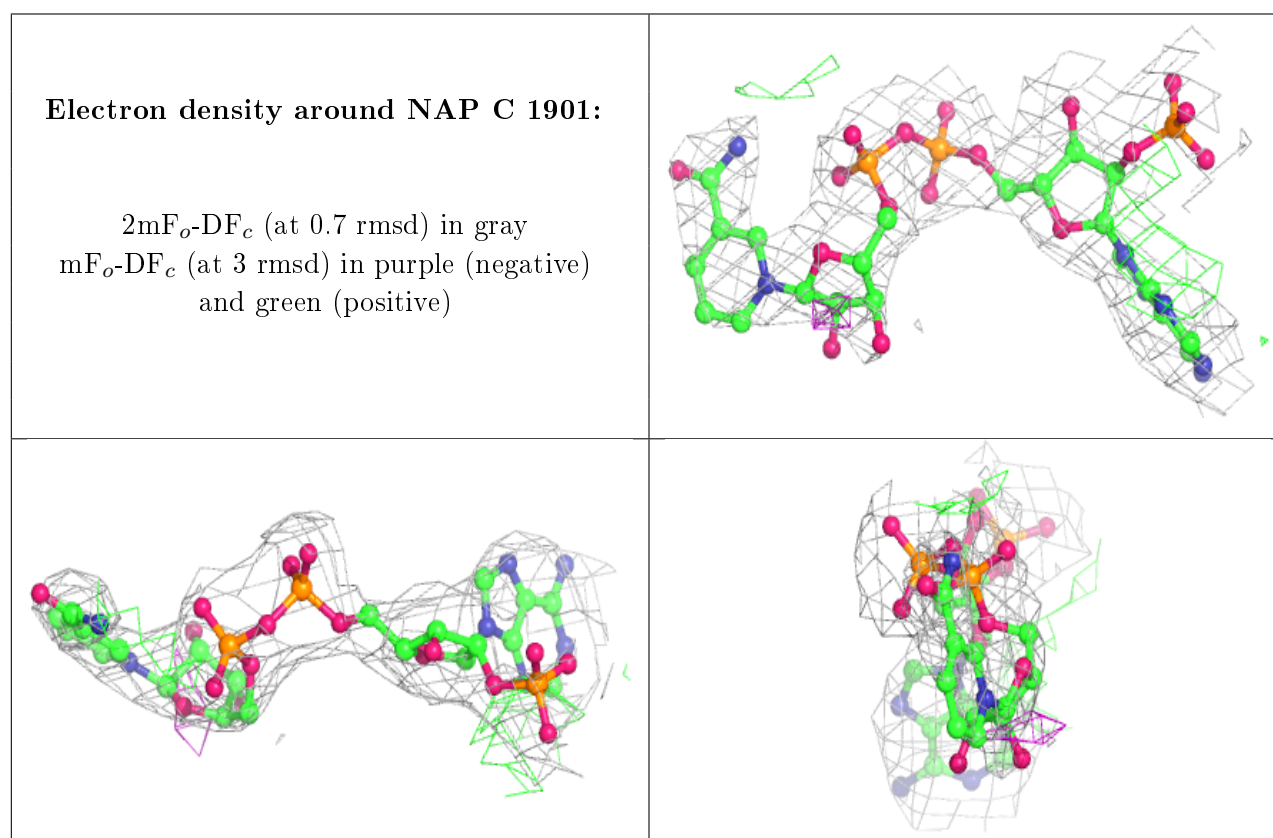
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAP	C	1901	48/48	0.87	0.34	23,81,130,171	0
3	NAP	F	1901	48/48	0.87	0.31	19,78,125,159	0
3	NAP	D	1901	48/48	0.87	0.34	21,83,127,174	0
3	NAP	J	2102	48/48	0.89	0.21	35,88,118,120	0
3	NAP	K	2102	48/48	0.90	0.29	43,94,127,131	0
3	NAP	A	1901	48/48	0.90	0.32	19,76,121,169	0
4	FMN	K	2101	31/31	0.92	0.36	27,66,110,123	0
3	NAP	B	1901	48/48	0.92	0.32	23,78,115,145	0

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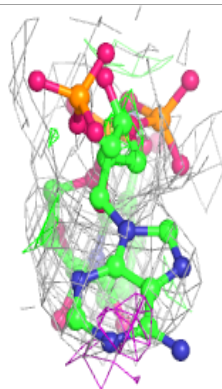
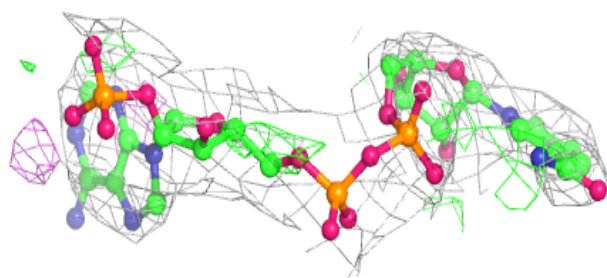
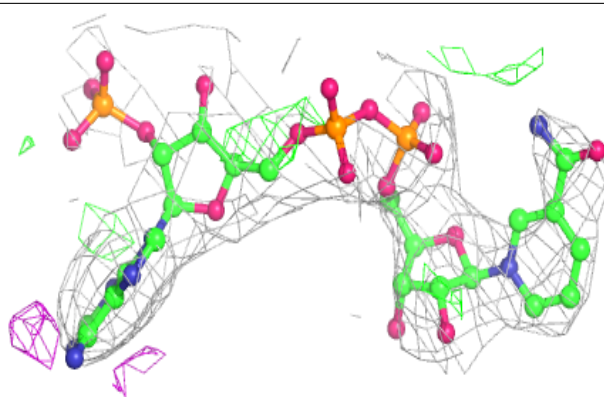
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NAP	H	2102	48/48	0.92	0.25	37,85,113,122	0
3	NAP	G	2102	48/48	0.92	0.24	42,87,119,128	0
3	NAP	L	2102	48/48	0.93	0.31	37,84,116,120	0
3	NAP	E	1901	48/48	0.93	0.26	24,77,123,157	0
4	FMN	J	2101	31/31	0.94	0.32	23,61,101,113	0
4	FMN	G	2101	31/31	0.95	0.31	26,63,101,111	0
3	NAP	I	2102	48/48	0.95	0.26	29,80,104,116	0
4	FMN	L	2101	31/31	0.96	0.29	19,59,102,114	0
4	FMN	H	2101	31/31	0.96	0.32	25,49,105,113	0
4	FMN	I	2101	31/31	0.97	0.30	22,56,87,103	0

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

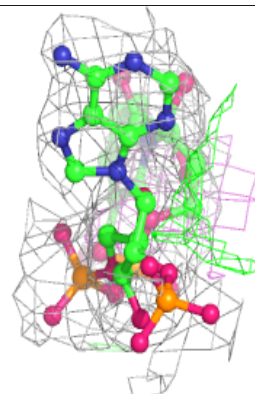
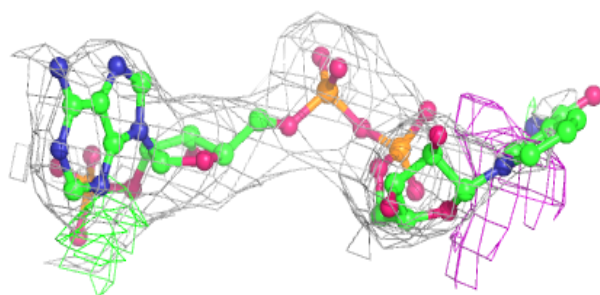
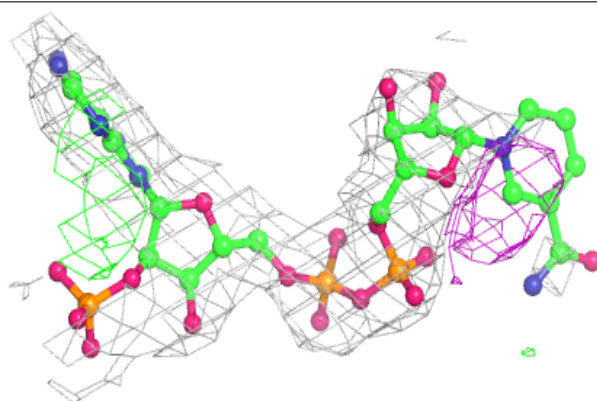


Electron density around NAP F 1901:

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

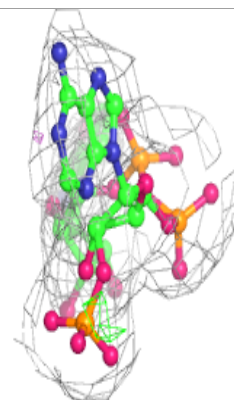
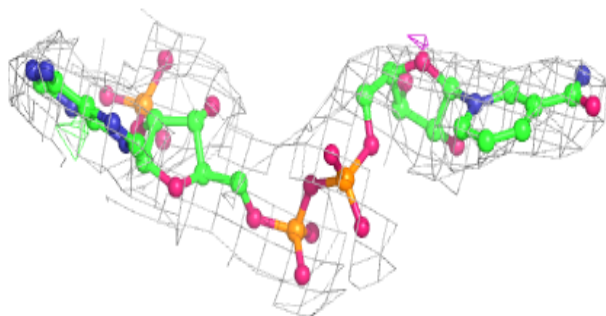
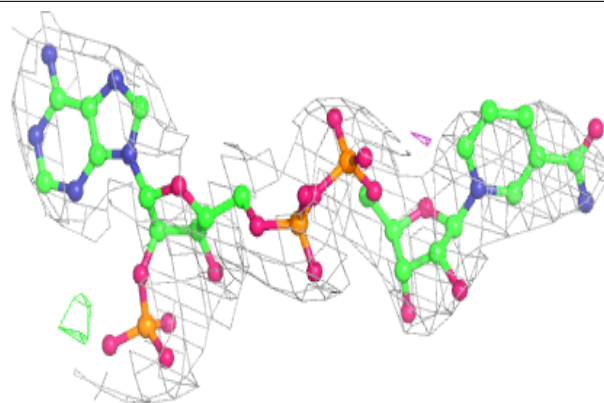
**Electron density around NAP D 1901:**

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

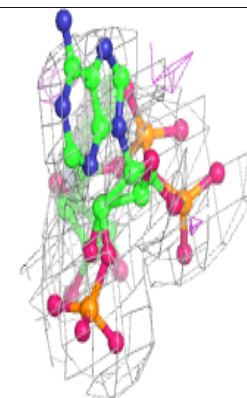
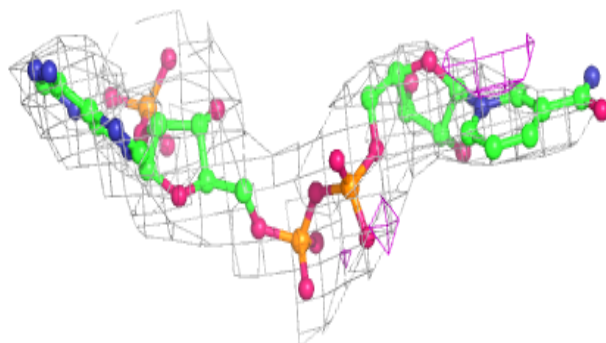
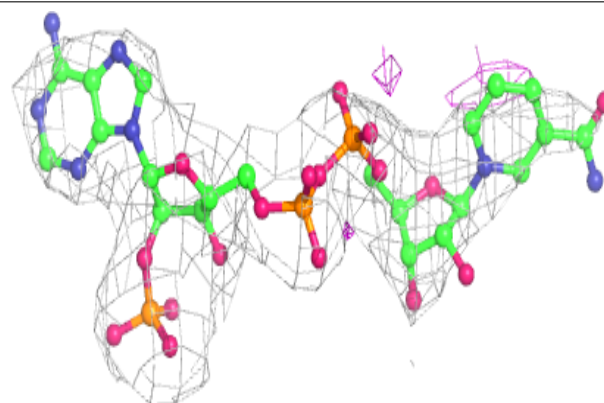


Electron density around NAP J 2102:

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

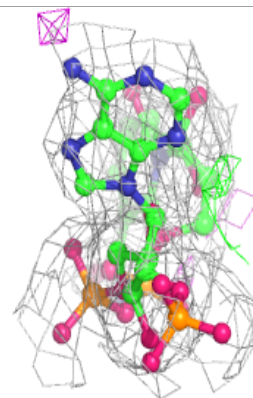
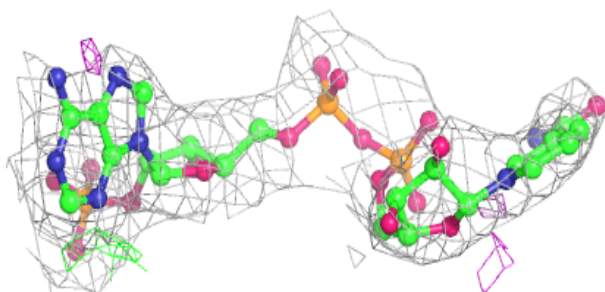
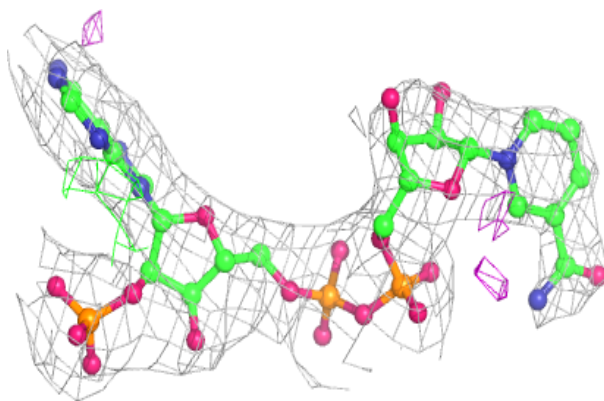
**Electron density around NAP K 2102:**

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

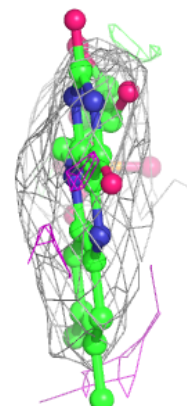
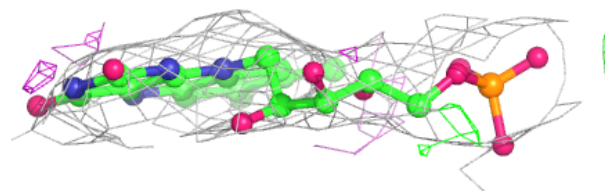
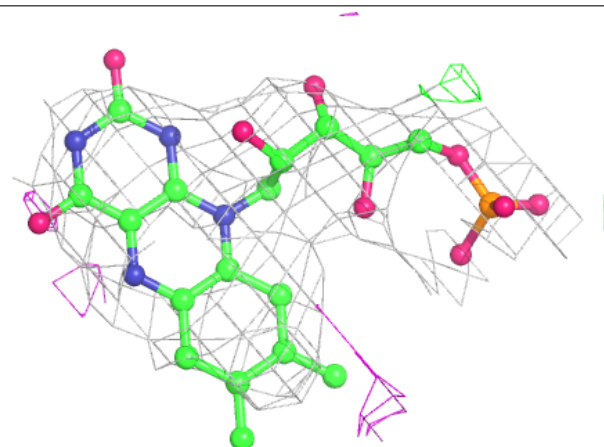


Electron density around NAP A 1901:

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

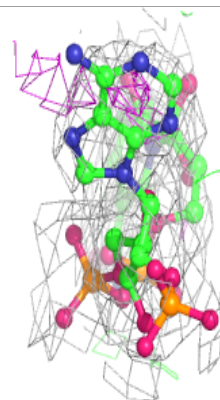
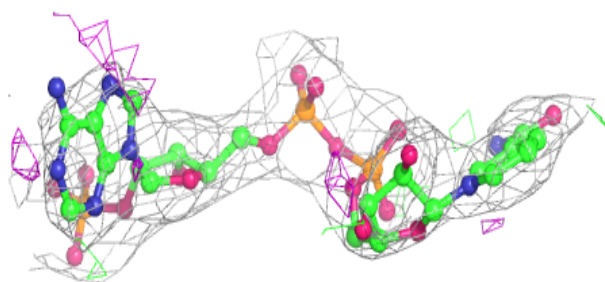
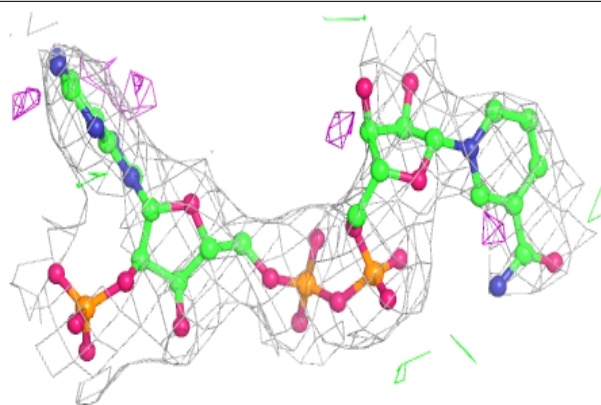
**Electron density around FMN K 2101:**

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

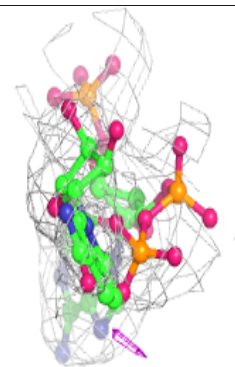
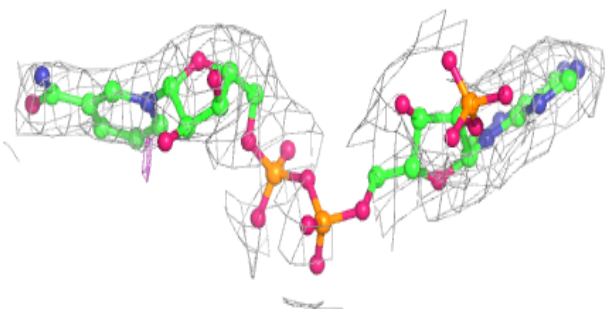
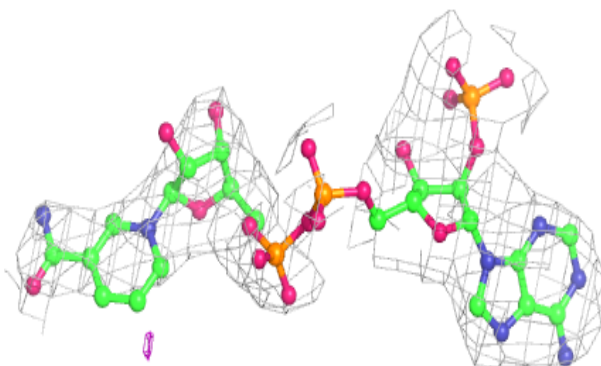


Electron density around NAP B 1901:

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

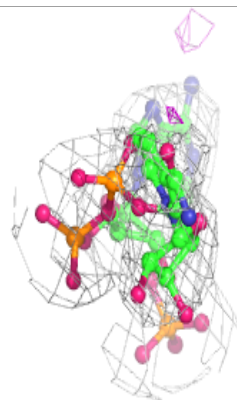
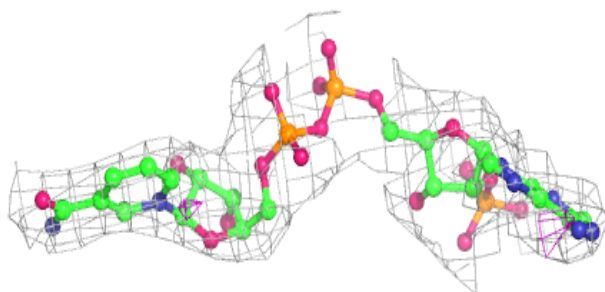
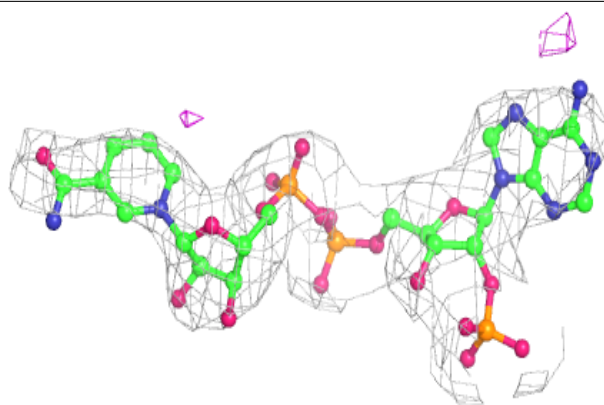
**Electron density around NAP H 2102:**

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

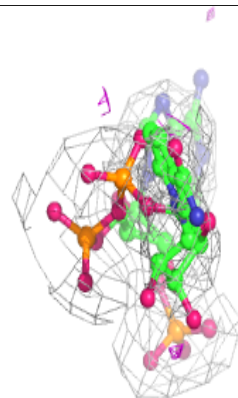
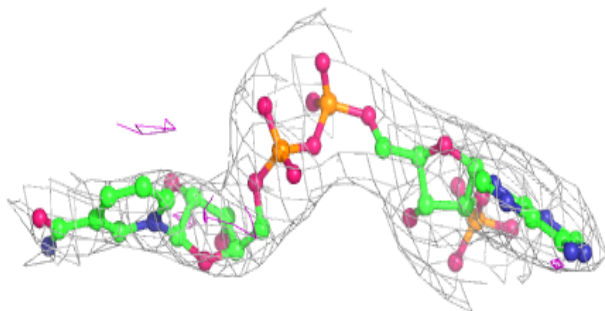
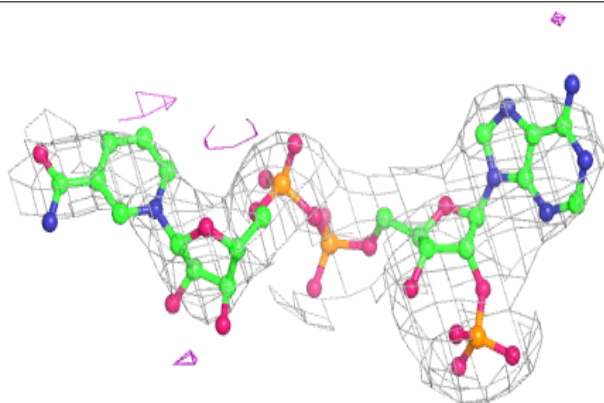


Electron density around NAP G 2102:

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

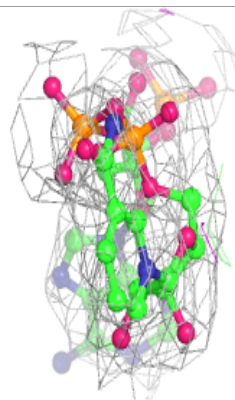
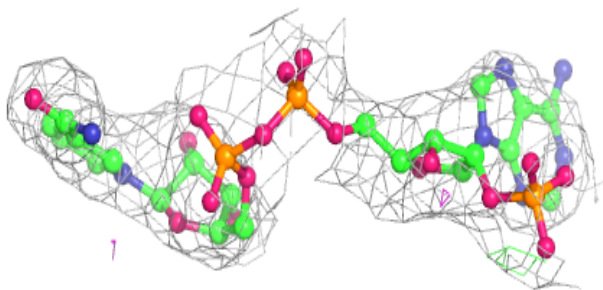
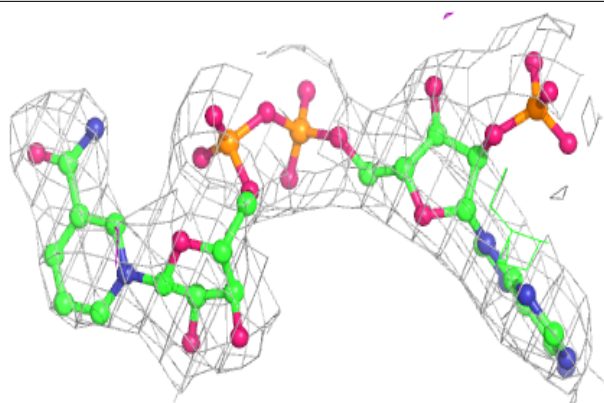
**Electron density around NAP L 2102:**

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

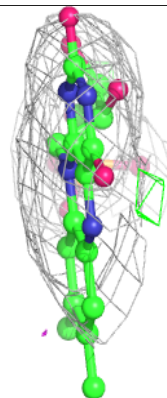
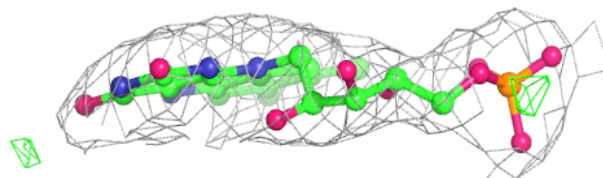
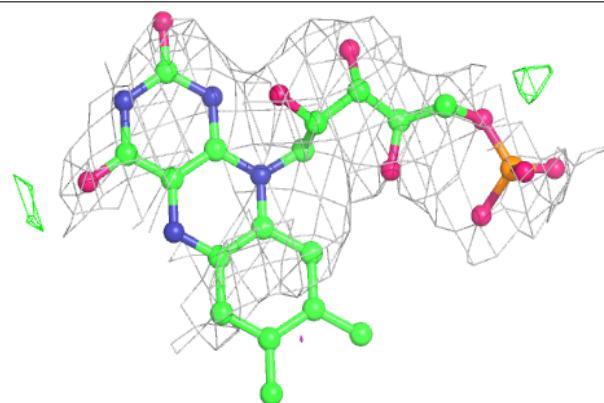


Electron density around NAP E 1901:

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

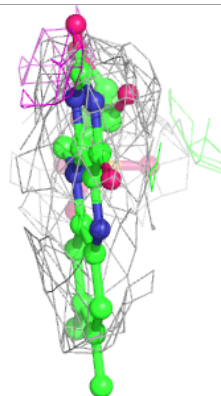
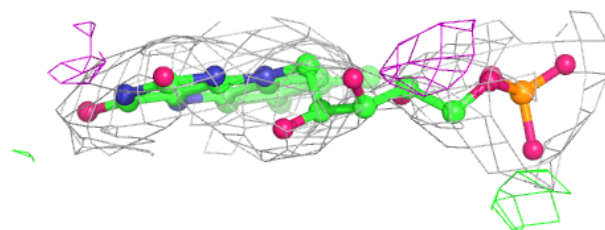
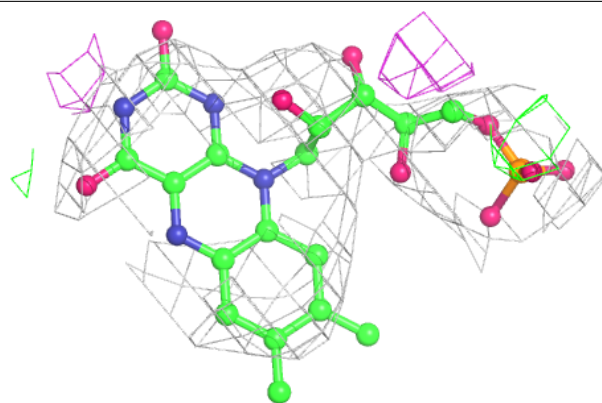
**Electron density around FMN J 2101:**

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

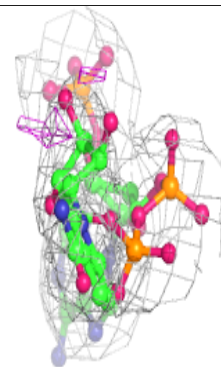
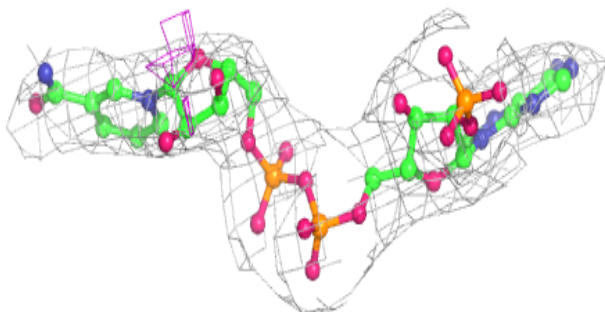
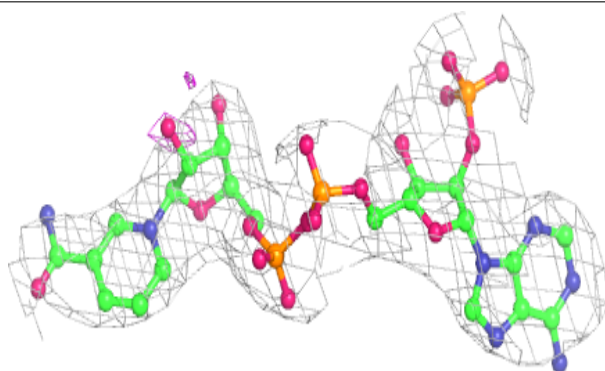


Electron density around FMN G 2101:

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

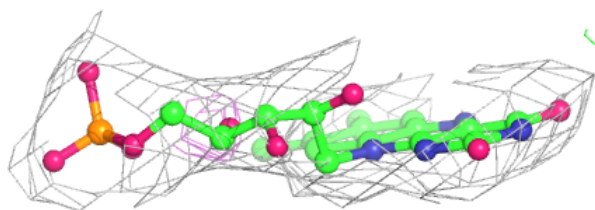
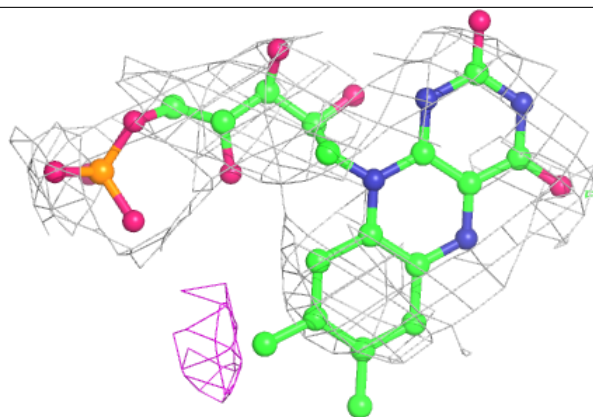
**Electron density around NAP I 2102:**

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

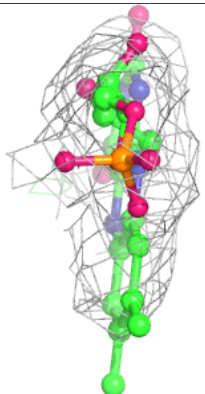
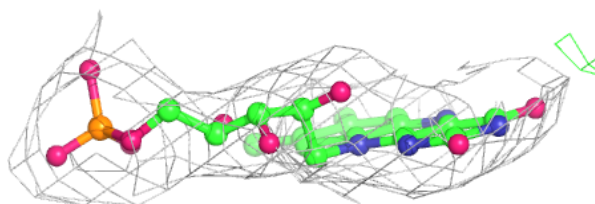
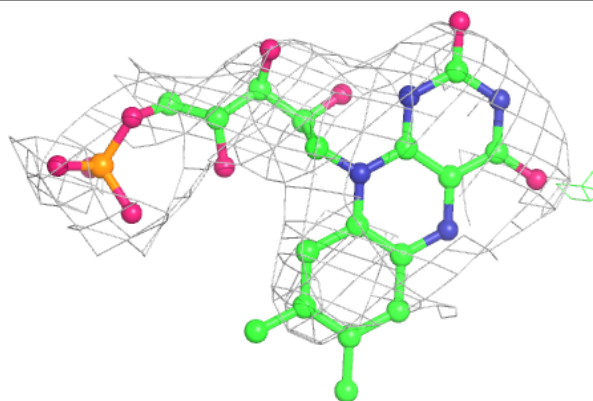


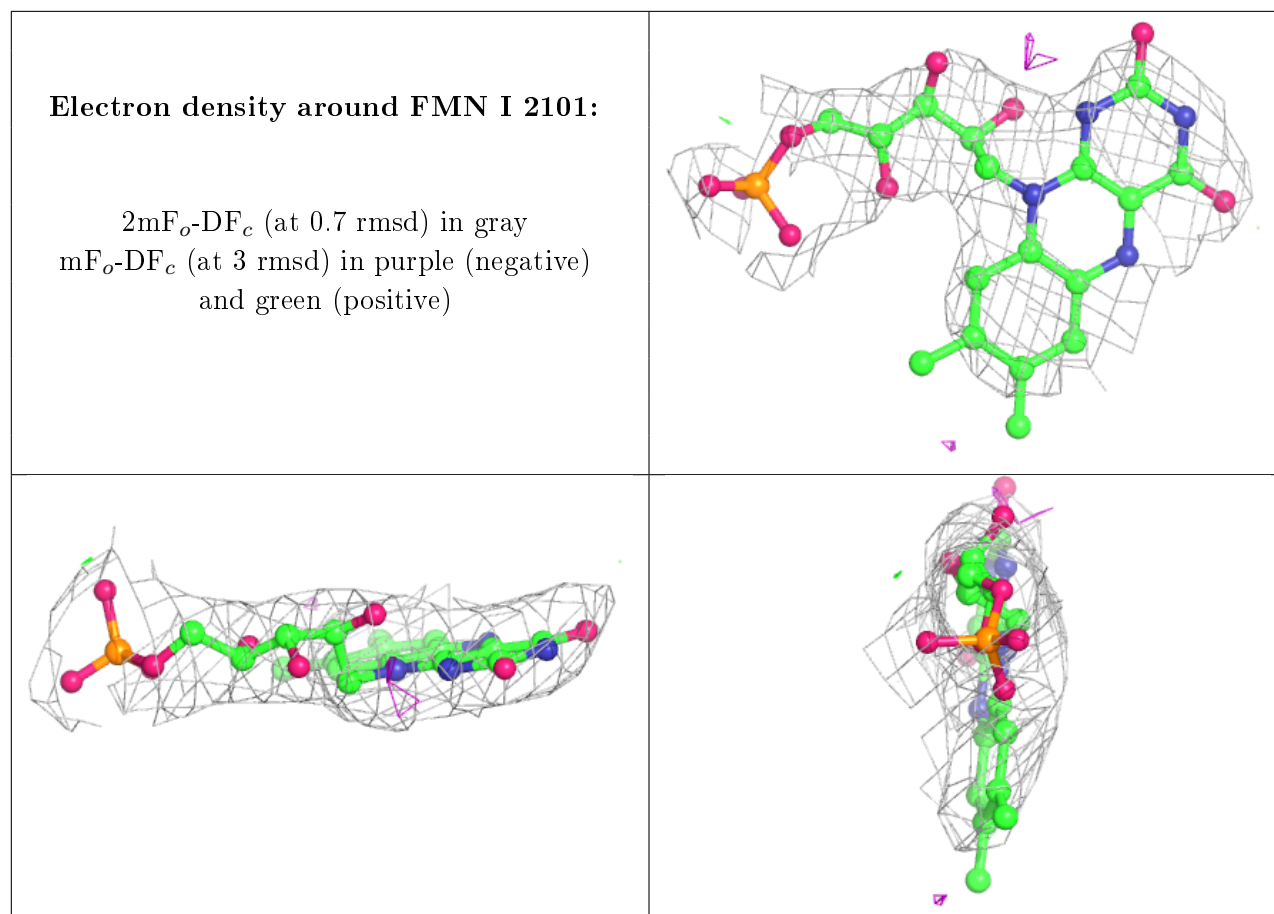
Electron density around FMN L 2101:

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

**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)





6.5 Other polymers [i](#)

There are no such residues in this entry.