



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 3, 2023 – 10:54 PM EDT

PDB ID : 4V58  
Title : Crystal structure of fatty acid synthase from thermomyces lanuginosus at 3.1 angstrom resolution.  
Authors : Jenni, S.; Leibundgut, M.; Boehringer, D.; Frick, C.; Mikolasek, B.; Ban, N.  
Deposited on : 2007-03-09  
Resolution : 3.10 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.35.1  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35.1

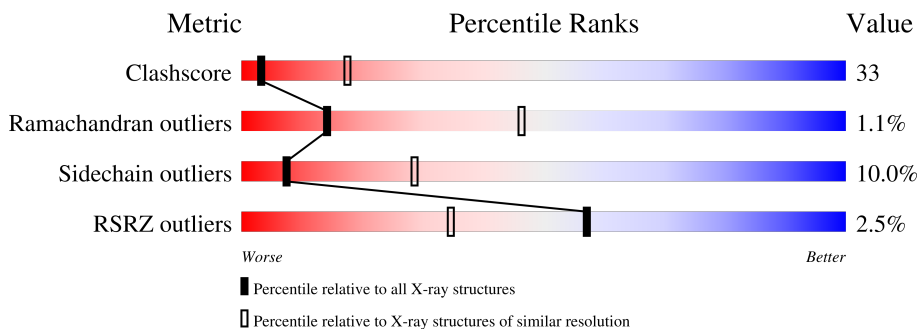
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.10 Å.

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



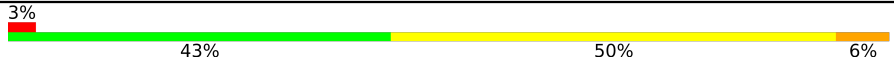

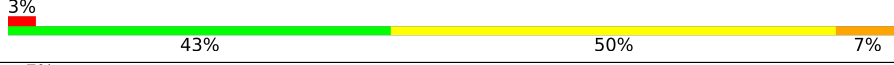
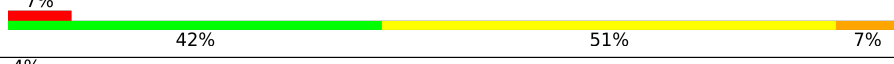

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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

Mol	Chain	Length	Quality of chain
1	A	1878	 40% 33% 5% 22%
1	B	1878	 42% 32% • 22%
1	C	1878	 41% 32% • 22%
1	D	1878	 41% 33% 5% 22%
1	E	1878	 40% 33% • 22%
1	F	1878	 41% 32% • 22%
2	G	2060	 44% 49% 6% 2%

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

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

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

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 166671 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

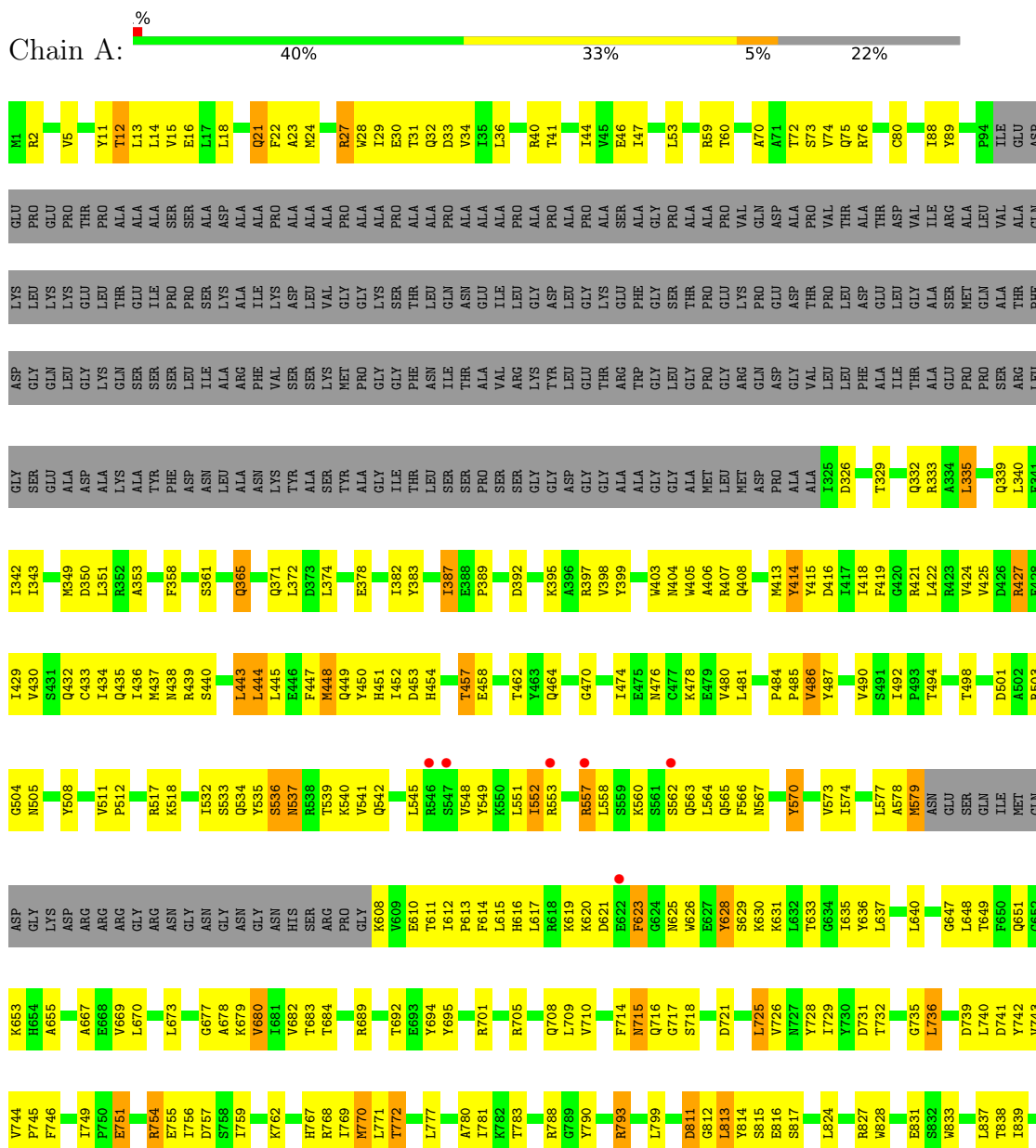


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	G	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	H	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	I	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	J	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	K	1	Total	C	N	O	P	0	0
			31	17	4	9	1		
3	L	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

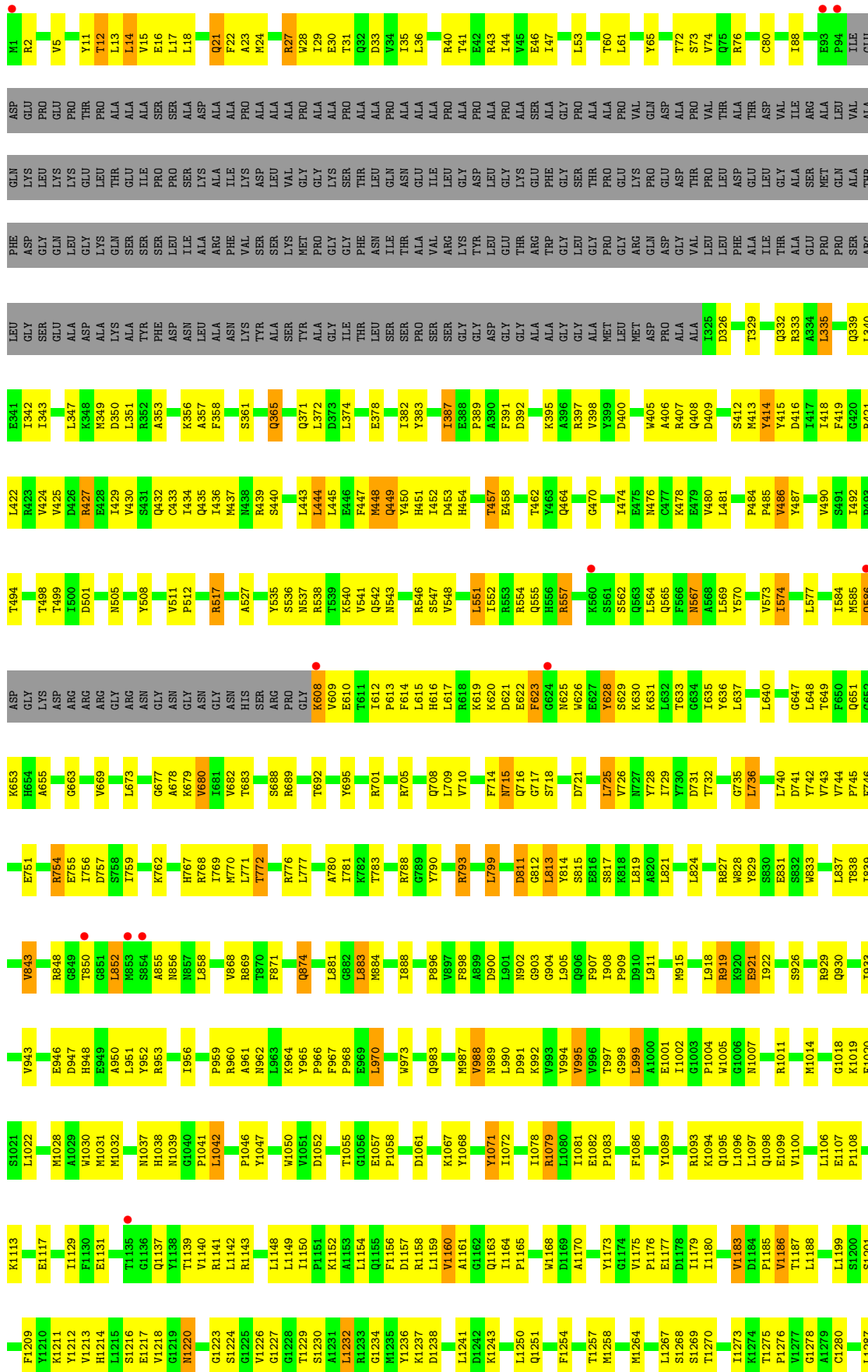
### 3 Residue-property plots [i](#)

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

- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS











L1678	M1589	T1509	I1432	F1351	S1269	V1183	R1093	M1007	I922	T838	P750	E668	ARG
R1590	R1590	M1510	E1437	M1352	T1270	D1184	K1094	A1008	S926	L839	E751	V669	ARG
M1591	M1591	G1511	E1437	E1353	I1273	P1185	Q1096	R1011	V843	V843	R754	L670	ARG
D1593	D1593	L1441	L1441	S1354	K1274	L1186	L1097	M1014	R929	G672	I755	G672	GLY
Q1601	Q1601	L1443	L1443	G1355	T1275	T1187	Q1098	E1015	Q930	L673	I756	L673	ARG
F1602	F1602	Q1444	Q1444	G1357	V1277	L1188	E1099	E1015	I933	D757	D757	D757	ASN
H1603	H1603	E1445	E1445	C1358	G1278	A1197	V1100	G1018	V942	S758	I759	G677	GLY
H1604	H1604	E1446	E1446	V1359	G1278	L1198	L1106	K1019	V942	L852	I759	A678	ASN
V1605	V1605	Q1360	Q1360	Q1360	C1280	L1199	E1107	F1020	K762	A855	K679	K679	ASN
F1606	F1606	V1361	V1361	S1361	C1280	S1200	P1108	S1021	E946	N856	I681	V680	GLY
V1607	V1607	A1448	A1448	I1362	L1287	S1201	P1108	L1022	D947	N857	V682	I682	ASN
P1608	P1608	M1363	M1363	I1363	D1288	S1201	K1113	L1022	H948	L858	R768	T683	HIS
S1609	S1609	T1364	T1364	G1364	D1288	F1209	E1117	M1028	E949	V859	I769	G677	SER
D1531	D1531	K1451	K1451	A1365	Y1291	F1210	E1117	M1028	A950	V863	M770	S688	ARG
S1610	S1610	S1452	S1452	A1366	Y1291	K1210	E1117	M1031	L951	V863	L771	R689	PRO
S1611	S1611	L1453	L1453	L1367	I1294	K1211	G1124	M1031	Y952	V863	I772	I681	GLY
E1534	E1534	R1454	R1454	A1368	I1294	V1213	E1131	M1032	R953	V868	T772	VAL	
S1535	S1535	S1455	S1455	A1368	A1299	H1214	E1131	M1037	R894	R869	R776	S693	VAL
D1536	D1536	E1456	E1456	M1371	R1300	L1215	E1134	H1038	V955	T870	L777	S693	GLY
V1537	V1537	E1457	E1457	G1372	V1301	S1216	E1134	H1039	F871	F871	A780	Y694	GLY
I1538	I1538	G1458	G1458	G1373	C1302	E1217	Q1137	M1040	I956	S872	I781	Y695	LYS
C1539	C1539	P1460	P1460	P1374	L1303	V1218	Q1137	P1041	P959	Q873	I781	P613	LYS
L1542	L1542	F1461	F1461	I1375	V1304	G1219	V1140	L1042	P959	Q874	K782	F614	LYS
K1543	K1543	D1462	D1462	I1378	F1307	N1220	V1140	L1042	A861	Q874	I783	L615	VAL
H1544	H1544	E1463	E1463	I1378	D1308	G1223	L1142	K1045	N962	L881	I783	H616	GLY
L1545	L1545	T1464	T1464	M1381	D1308	G1223	L1142	K1046	L963	G882	R788	L617	GLY
R1546	R1546	A1465	A1465	M1381	D1309	S1224	L1142	P1046	K964	R883	R788	R546	GLY
R1547	R1547	Y1466	Y1466	T1382	F1310	G1225	T1147	Y1047	Y965	M824	G789	S547	GLY
L1467	L1467	L1467	L1467	T1386	Q1311	V1226	T1147	Y1047	P966	Y965	Y790	V548	GLY
G1550	G1550	D1467	D1467	D1387	E1312	G1227	L1148	Y1051	F967	I888	R793	D621	VAL
M1551	M1551	K1470	K1470	K1388	E1312	G1227	L1149	Y1051	P968	Y889	L799	S622	THR
A1552	A1552	T1471	T1471	I1389	E1313	S1230	L1150	D1052	E969	N890	L799	F623	PRO
V1553	V1553	H1472	H1472	G1389	G1314	A1231	P1151	T1055	L970	N890	L799	G624	THR
L1554	L1554	G1390	G1390	G1390	S1315	L1232	A1153	G1056	L970	Q893	S802	G716	GLY
Y1560	Y1560	P1394	P1394	P1394	E1317	R1233	L1154	E1057	W973	Q893	P803	S718	GLY
L1561	L1561	V1400	V1400	V1400	M1321	G1236	Q1155	P1058	Q983	P896	H804	Y628	GLN
H1564	H1564	L1401	L1401	L1401	G1322	I1236	F1156	D1061	Q983	Y897	D811	S629	SER
K1565	K1565	T1402	T1402	T1402	A1323	Y1236	D1157	D1061	N987	F898	D811	K630	SER
E1482	E1482	K1407	K1407	K1407	T1324	K1237	R1158	K1067	N987	D900	C812	L725	GLY
A1483	A1483	S1408	S1408	S1408	T1324	D1238	L1159	Y1068	N989	L901	L813	V726	THR
Q1486	Q1486	G1409	G1409	G1409	A1327	L1241	V1160	Y1068	N989	N902	Y814	I729	GLN
Q1486	Q1486	Q1486	Q1486	Q1486	E1330	D1242	A1161	Y1071	D991	N902	S815	G634	THR
M1572	M1572	I1418	I1418	I1418	E1330	K1243	Q1162	I1072	K992	G903	D731	Y730	THR
M1573	M1573	K1419	K1419	K1419	R1333	I1249	T1164	I1072	V993	L905	T732	Y636	SER
G1490	G1490	Y1420	Y1420	Y1420	R1333	L1250	P1165	I1078	V994	Q906	L821	G735	GLU
N1491	N1491	R1421	R1421	R1421	E1336	Q1251	P1165	I1078	V994	F907	L736	I574	SER
E1492	E1492	R1422	R1422	R1422	P1337	F1254	W1168	L1080	V996	I908	L824	R575	ASP
F1493	F1493	Q1423	Q1423	Q1423	P1337	F1254	A1170	I1081	T997	P909	L824	L577	ALA
W1494	W1494	Q1424	Q1424	Q1424	E1339	Q1251	E1082	I1081	G998	D910	D739	L648	ALA
R1495	R1495	L1425	L1425	L1425	M1340	T1257	P1083	P1083	L999	L911	L740	L648	SER
E1496	E1496	E1426	E1426	E1426	S1341	M1258	Y1173	F1086	A1000	M915	D741	L648	ALA
R1499	R1499	R1342	R1342	R1342	R1342	M1258	P1176	F1086	E1001	M915	Y742	Q651	ALA
R1429	R1429	P1343	P1343	P1343	P1343	M1258	E1177	F1086	I1002	L918	V743	M585	ALA
R1504	R1504	T1344	T1344	T1344	T1344	M1258	D1178	P1091	G1003	R919	V744	K653	GLU
G1505	G1505	T1347	T1347	T1347	T1347	M1258	I1180	M1092	P1004	K920	P745	H654	THR
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											I749	A667	LEU



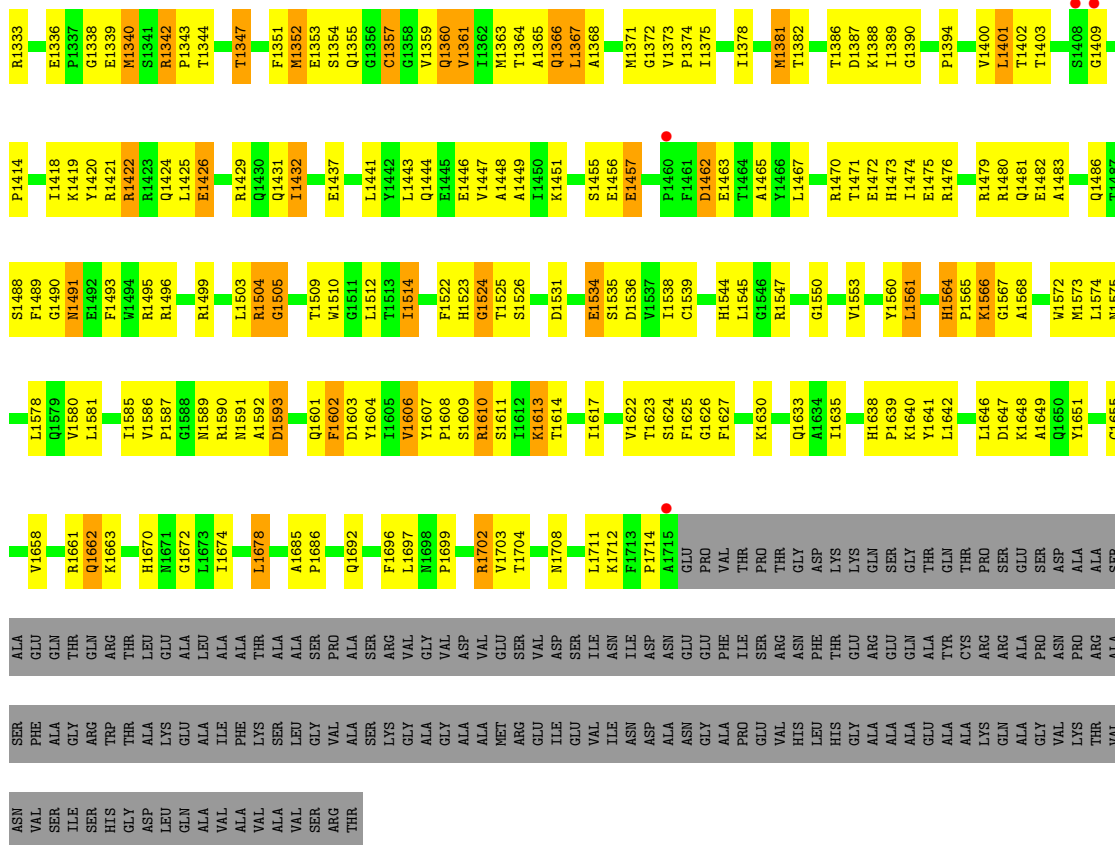
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D910	L1002	F1089	P1176	F1254	E1336	K1407	Q1486	M1575	K1663	GLN	ALA	SER
L911	G1003	Y1089	E1177	T1257	P1337	G1409	F1489	L1578	G1672	THR	GLY	ILE
K915	W1004	D1090	D1178	M1258	G1338	G1410	M1491	V1580	L1674	ARG	TRP	SER
L918	W1005	P1091	I1173	T1262	E1339	F1411	M1492	L1585	L1678	THR	ALA	ASP
K919	M1007	N1092	I1180	V1282	M1340	T1418	F1493	V1586	L1682	GLU	LYS	LEU
R920	A1008	R1093	V1183	M1283	S1342	K1419	F1494	P1587	K1682	ALA	GLN	LEU
R929	R1011	K1094	D1184	M1284	P1343	Y1420	R1495	P1588	K1685	LEU	ALA	GLN
R930	M1014	L1096	P1185	L1287	T1344	R1421	R1499	P1589	A1685	ALA	PHE	VAL
R933	E1015	L1097	T1187	S1289	S1345	R1422	R1499	R1590	P1686	THR	LYS	VAL
V942	M1018	V1100	L1188	T1270	T1347	L1425	R1504	M1591	Q1692	ALA	SER	ALA
V943	K1019	L1106	V1192	I1273	F1351	E1426	G1505	A1592	F1692	ALA	ALA	VAL
N944	S1021	E1107	V1192	K1274	M1352	R1428	T1509	D1593	L1696	PRO	ALA	VAL
E946	L1022	P1108	A1197	T1275	E1353	R1429	W1510	F1697	F1697	ALA	ALA	VAL
D947	M1028	K1113	L1198	P1276	S1354	Q1430	G1511	N1698	N1698	SER	SER	THR
H948	M1031	E1117	L1199	T1277	Q1355	Q1431	L1512	P1699	P1699	ARG	LYS	ARG
E949	M1032	E1117	S1200	G1278	G1357	I1432	I1514	R1702	R1702	VAL	ALA	GLY
A950	M1037	G1124	G1202	C1280	V1359	E1437	I1514	I1704	I1704	ASP	ALA	ASP
L951	H1038	I1129	F1209	L1287	Q1360	L1441	F1522	V1606	Q1705	VAL	ALA	VAL
L952	M1039	T1139	Y1210	D1288	V1361	Y1442	H1523	P1608	E1706	GLU	MET	GLU
L953	G1040	F1130	K1211	D1288	I1362	L1443	G1524	S1609	S1707	SER	ARG	ARG
A961	P1041	E1131	Y1212	Y1291	M1363	Q1444	T1525	R1610	R1707	VAL	GLU	GLU
N962	L1042	Q1137	Y1213	I1294	T1364	E1445	S1526	I1611	G1709	ASP	ILE	ASP
Y964	W1050	Y1138	H1214	I1294	E1365	E1446	D1531	I1612	E1710	GLU	GLU	GLU
Y965	W1051	Y1138	H1215	I1294	Q1366	V1447	D1531	K1613	L1711	ILE	VAL	ILE
P966	D1052	R1143	M1220	V1304	L1367	A1448	E1534	T1614	K1712	ASN	ILE	ILE
F967	T1055	L1148	G1223	F1307	A1368	A1448	S1534	I1617	F1713	ILE	ASN	ASN
P968	G1056	L1149	S1224	D1308	L1368	I1450	D1636	V1622	P1714	ASP	ASP	ASP
E969	E1057	I1150	G1224	D1309	G1372	K1451	V1537	T1623	A1715	ASN	ALA	ALA
L970	P1058	P1151	V1226	F1310	V1372	D1462	W1538	S1624	GLU	GLU	GLY	GLY
A973	D1061	A1153	G1227	Q1311	I1374	E1456	C1539	F1625	PRD	PHE	LEU	LEU
Q983	K1067	L1154	S1230	E1312	I1375	E1457	H1544	F1627	K1630	THR	THR	THR
Y987	Y1068	F1155	G1223	E1313	I1378	E1465	L1545	G1626	Q1633	GLY	GLY	GLY
Y988	Y1068	D1157	L1232	G1314	D1387	Y1466	V1552	H1638	H1638	ARG	ALA	ALA
Y989	Y1071	R1158	L1233	S1315	K1388	L1467	L1554	P1639	H1638	GLU	ALA	ALA
L990	L1072	L1159	G1234	Y1316	I1389	R1470	L1554	K1640	K1640	ALA	ALA	ALA
D991	H1075	L1159	M1235	E1317	G1390	T1471	Y1560	Y1641	Y1641	TYR	ALA	ALA
Y994	H1075	V1160	Y1236	M1321	V1393	E1472	L1561	L1642	L1642	THR	ALA	ALA
Y995	I1078	A1161	D1238	G1322	P1394	H1473	H1564	L1646	L1646	ARG	LYS	LYS
Y996	I1078	Q1163	D1238	G1162	P1394	I1474	P1564	D1647	D1647	ARG	GLN	GLN
T997	R1079	P1165	L1241	T1164	V1400	E1475	P1565	GLU	GLU	ALA	ALA	ALA
G998	L1080	T1242	K1243	T1324	L1401	R1476	K1566	K1648	K1648	PRO	GLY	GLY
L999	I1081	K1243	K1243	A1327	T1402	R1479	G1567	A1649	A1649	ASN	VAL	VAL
L999	E1082	W1168	I1249	E1330	T1403	R1481	A1568	V1668	V1668	PRO	LYS	LYS
A1000	P1083	A1170	L1250	E1330	R1405	E1482	M1572	R1661	R1661	ALA	THR	THR
							M1573			SER	ALA	ALA

● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

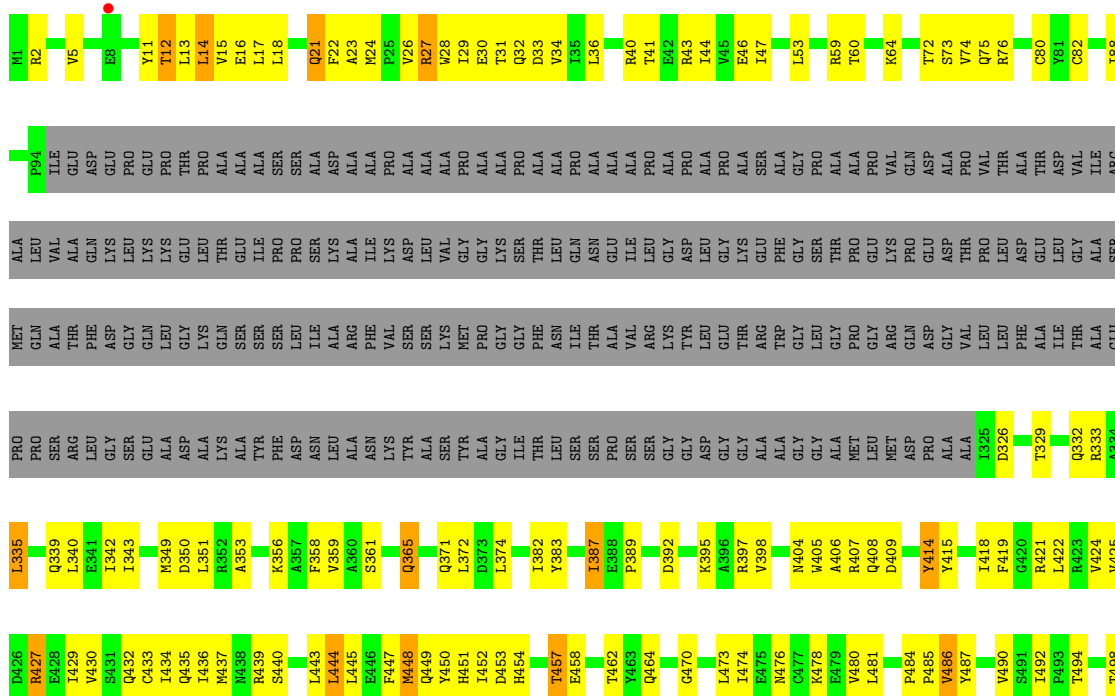
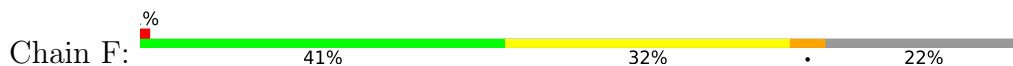


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● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS



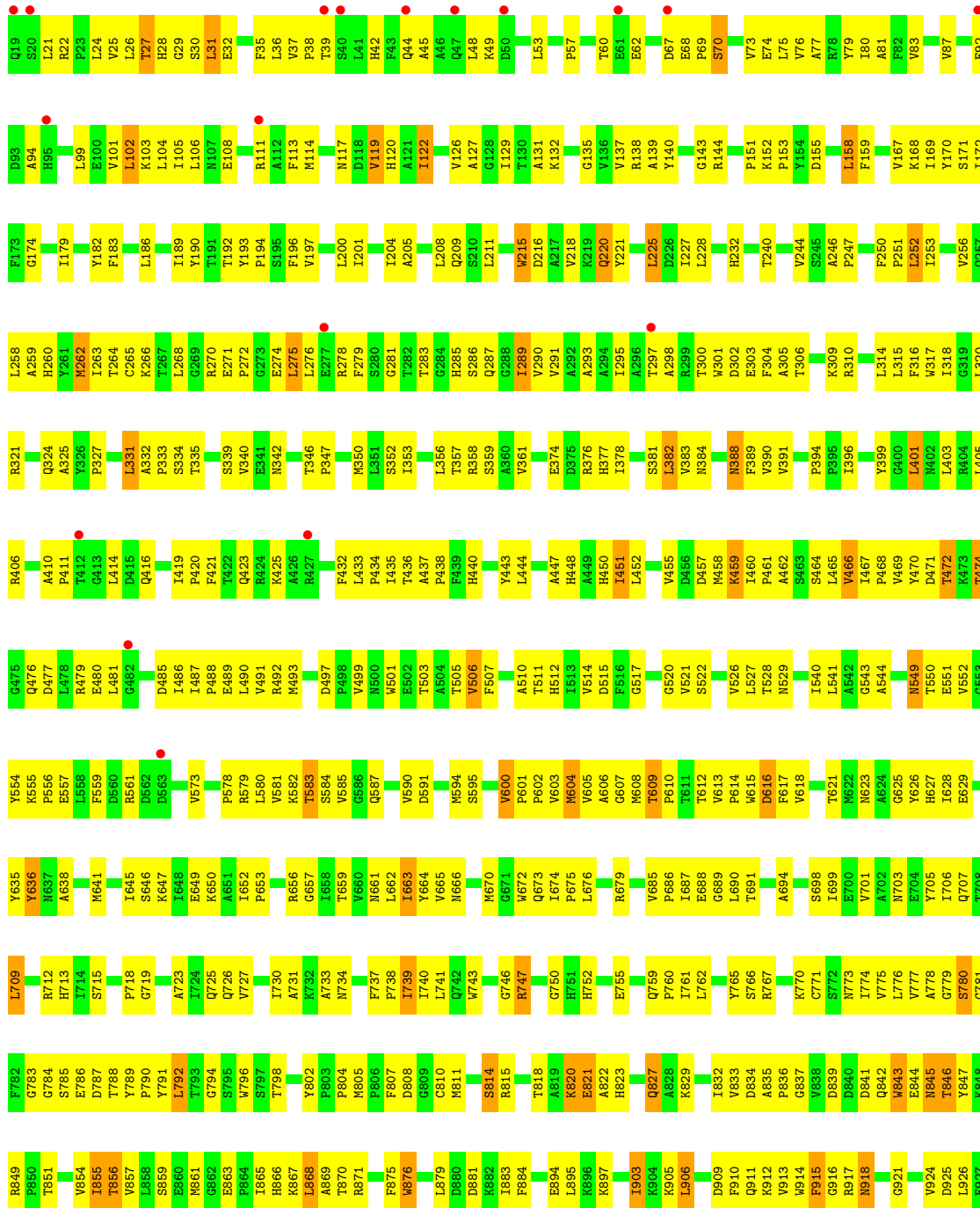
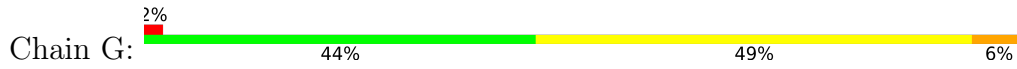
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SER	Q1662	E1492	E1492	P1337	T1287	T1287	D1169	I1078	D991	F907	W828	W828	Y573	Y573
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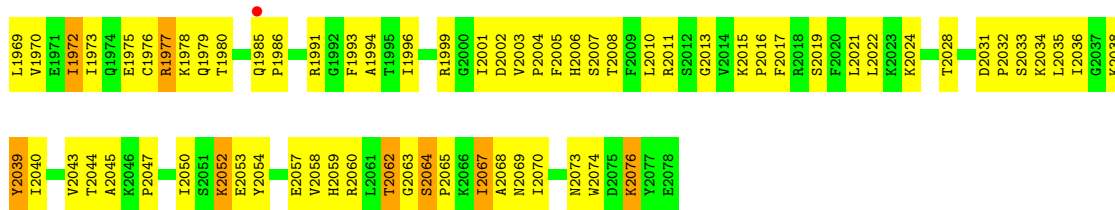
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• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS

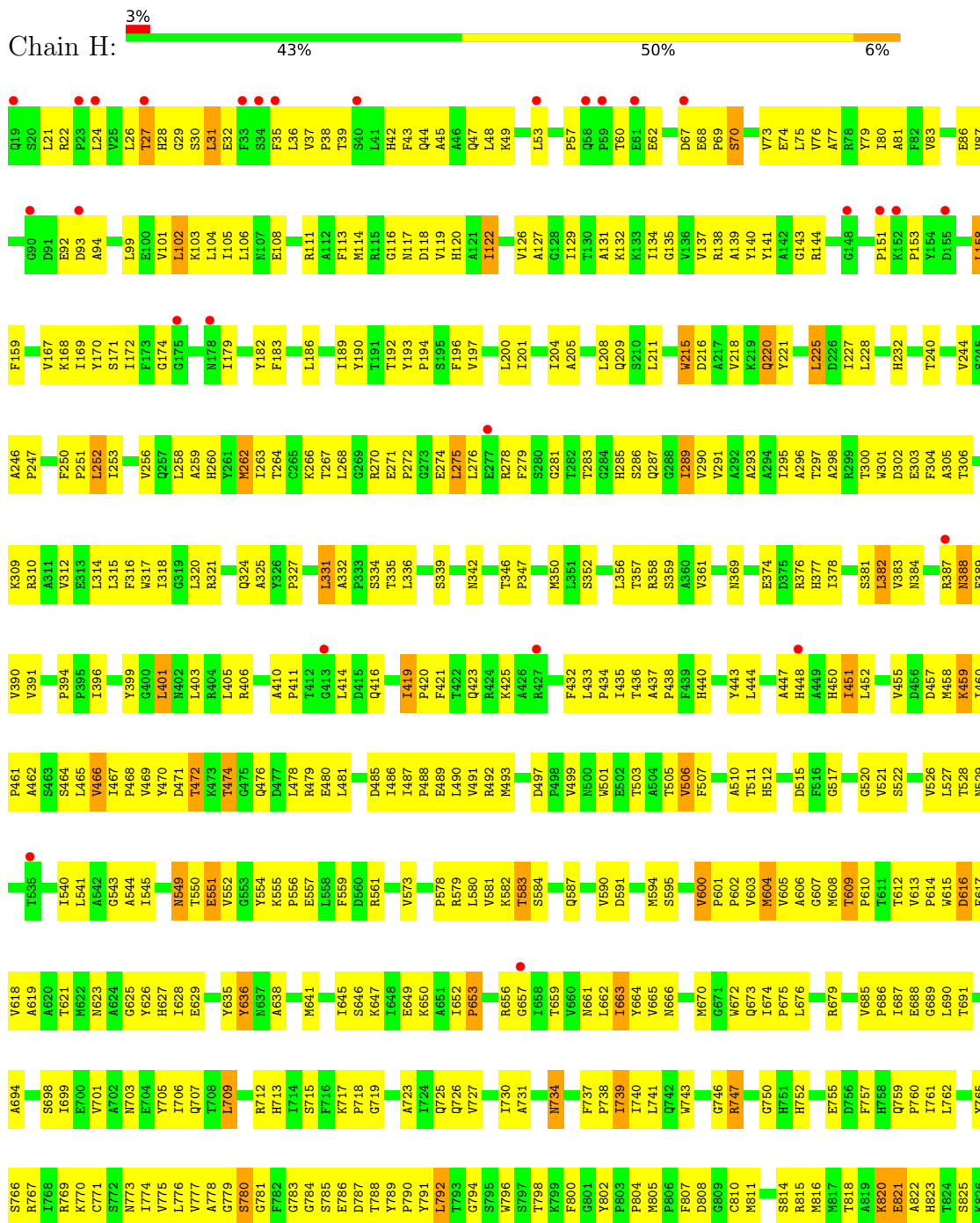




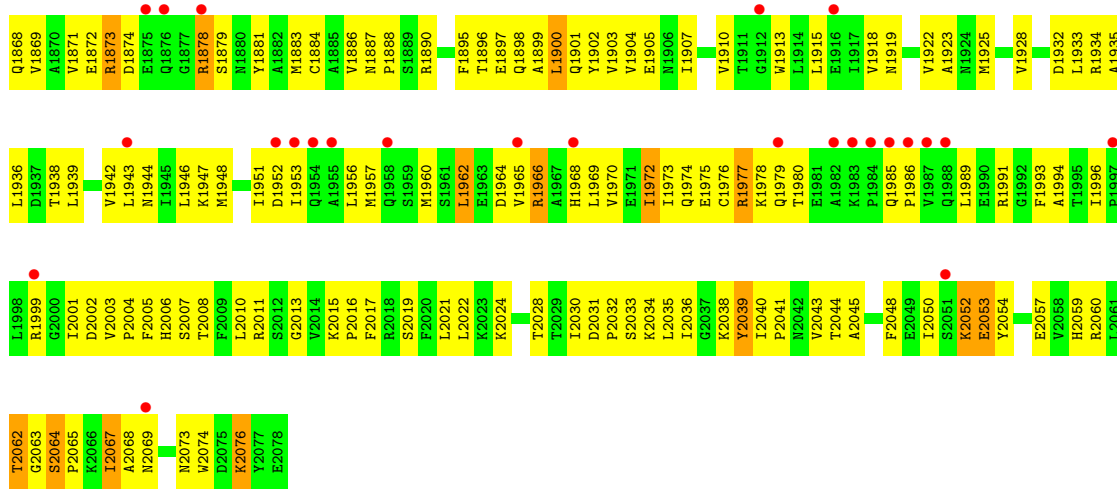
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L1964	Q1898	F1832	F1746	L1644	P1568	M1500	V1426	V1352	E1276	Y1203	D1128	D1128	G995
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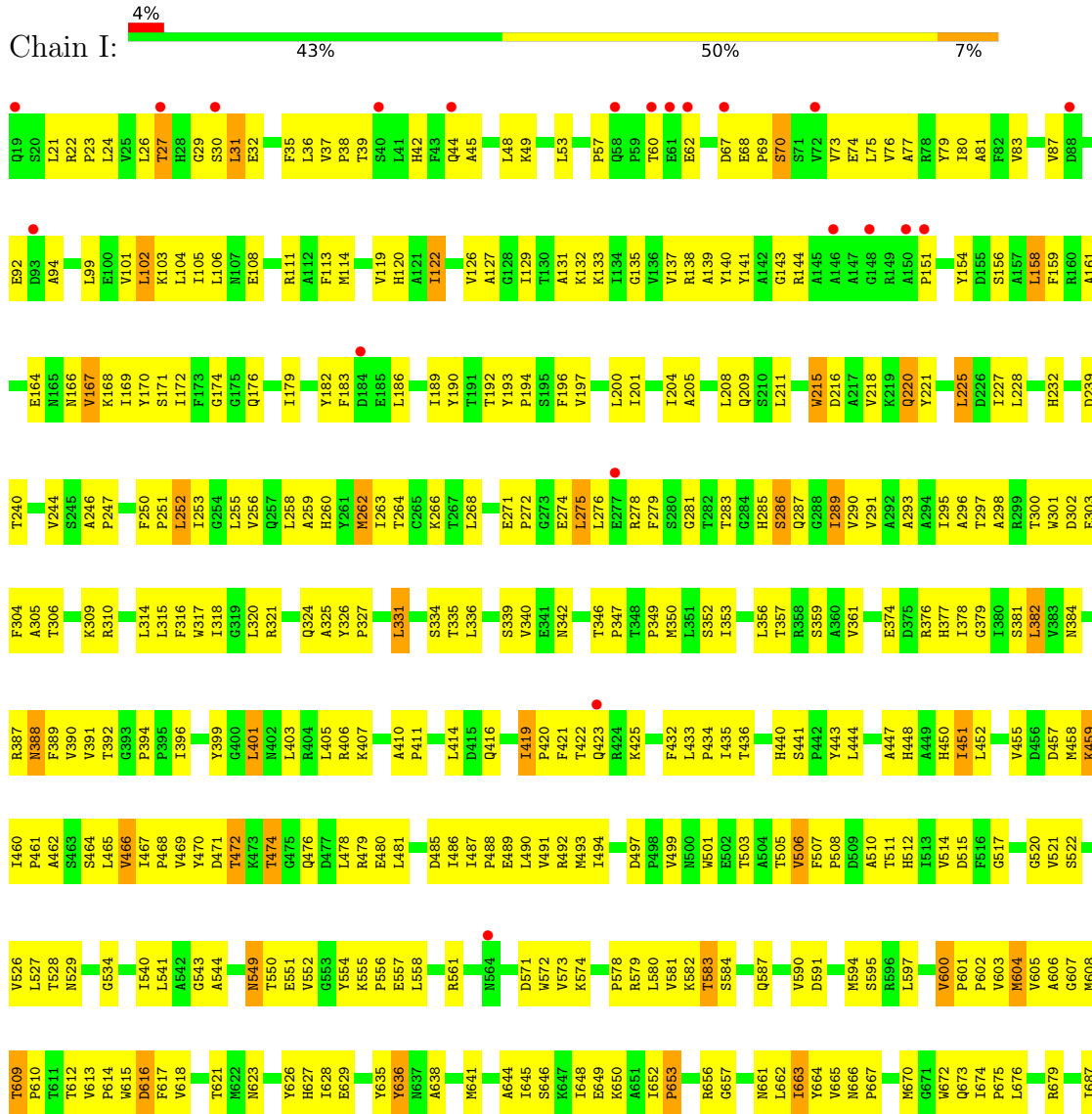
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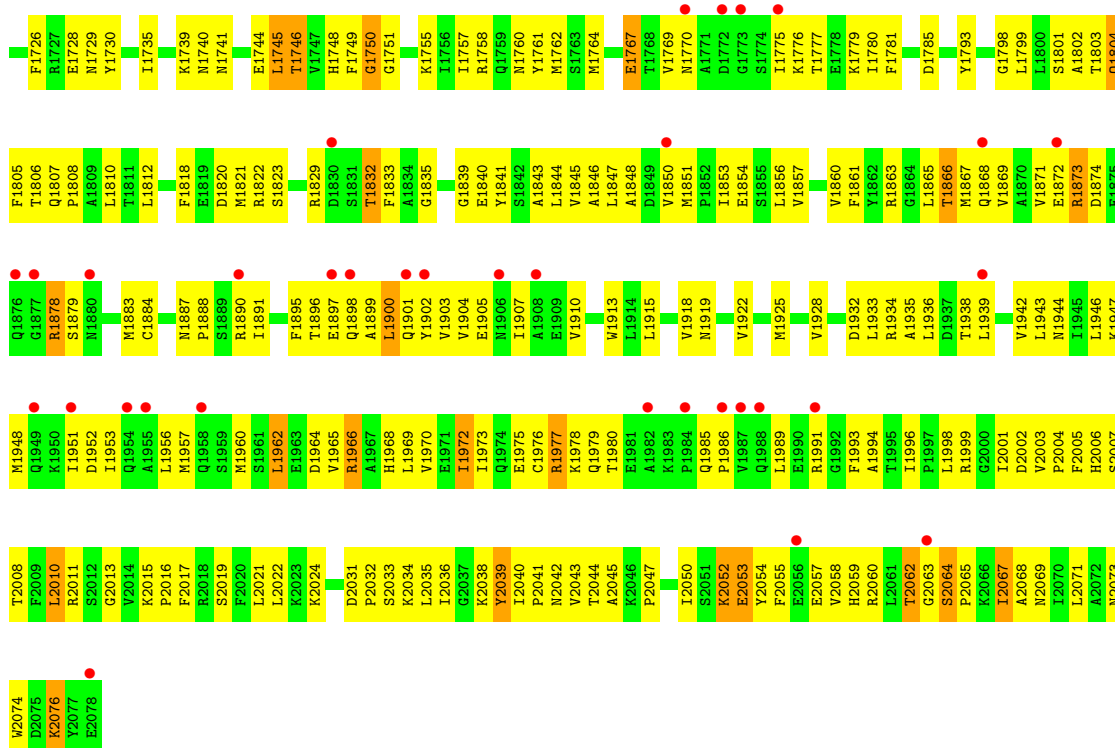




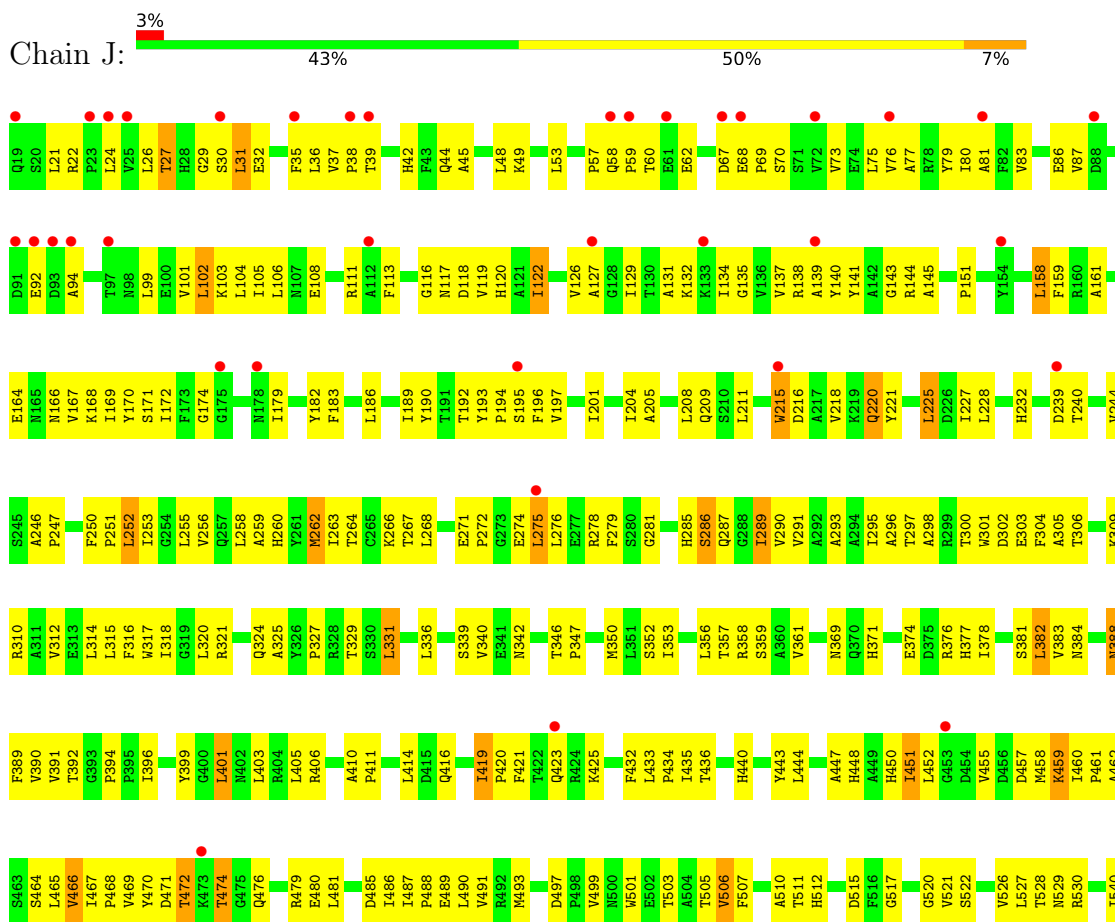
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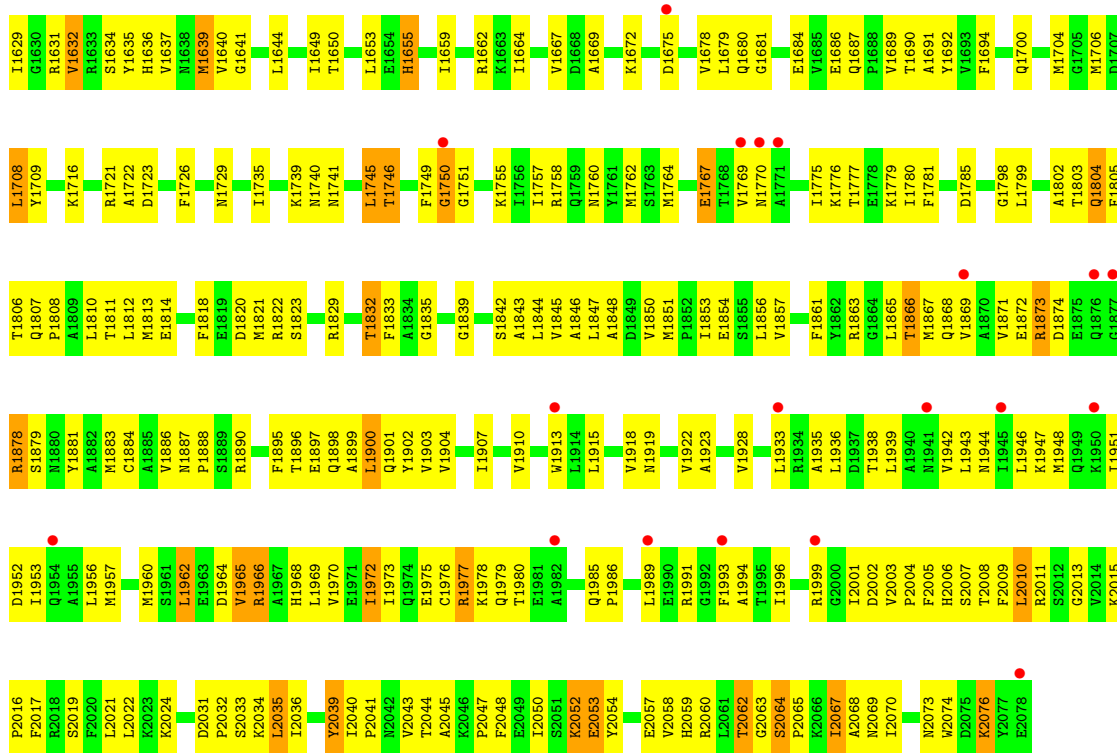




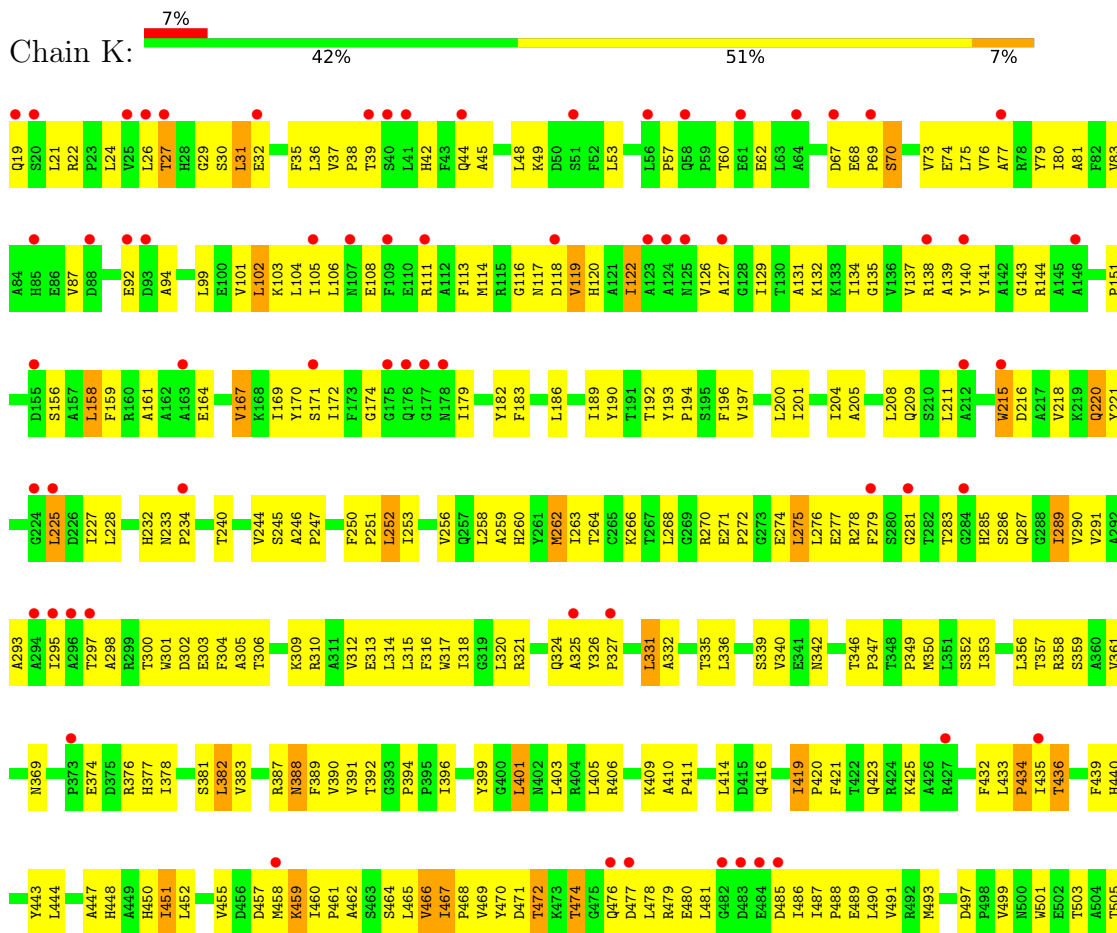
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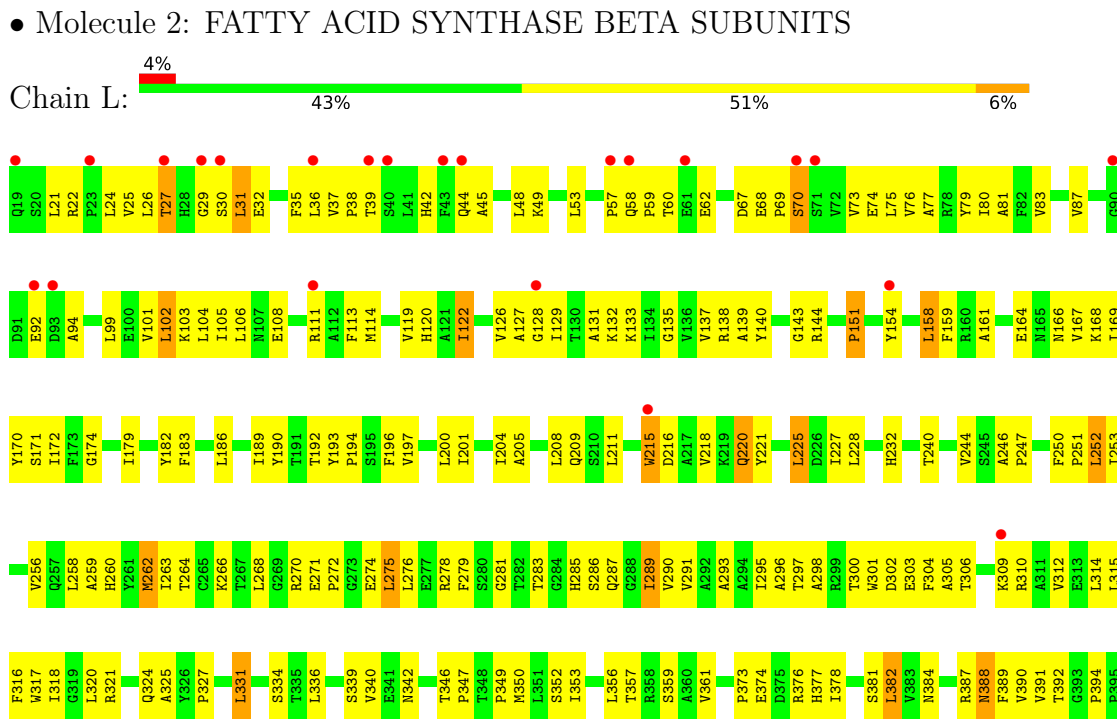
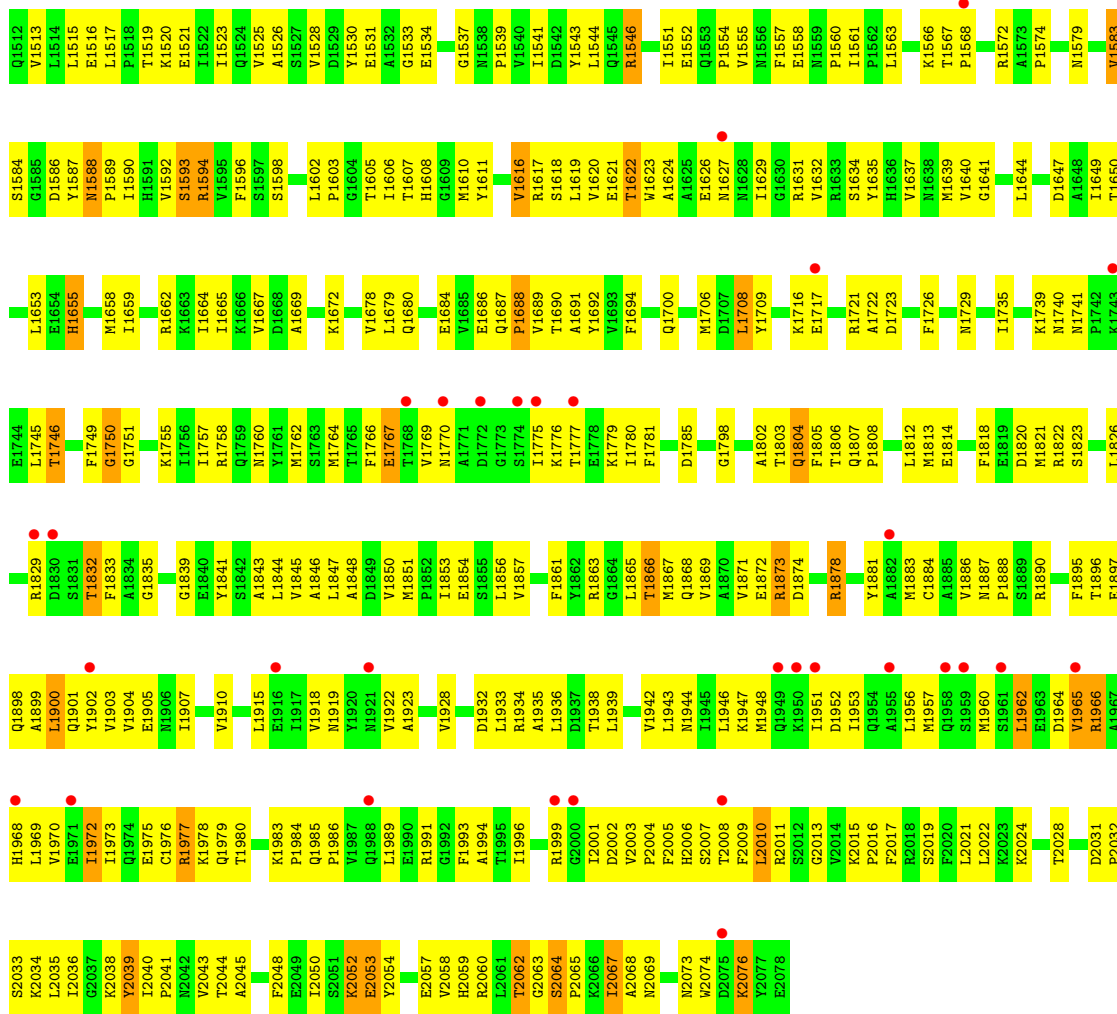


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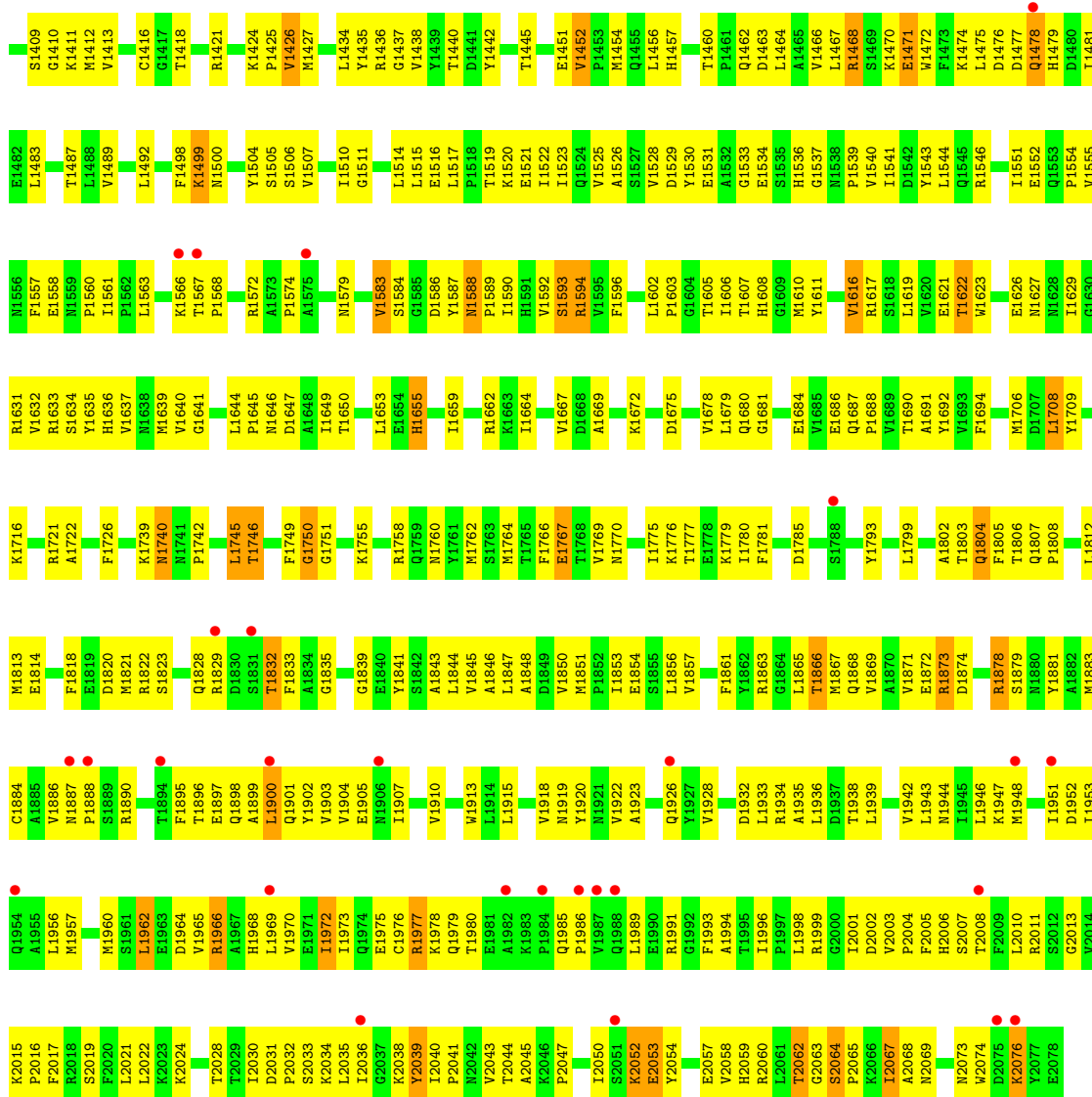




V506	F507	D509	A510	T511	H512	D515	F516	G517	G520	V521	S522	V526	L527	T528	H529	D533	L540	L541	A542	G543	A544	L545	D546	T547	G548	A549	T550	E551	V552	G553	V554	K555	P556	E557	L558	F559	D560	R561	D562	D563	V573	F578	R579	L580	F581	K582	H583	T583	S584	Q587	T588														
F589	V590	D591	M594	S595	V600	P601	P602	V603	M604	V605	A606	G607	M608	T609	P610	T611	T612	P614	P615	P616	P617	P618	T621	M622	M623	A624	G625	P626	H627	L628	E629	V635	V636	A638	M641	I645	S646	K647	L648	E649	K650	A651	L652	P653	R656	H657	N661	F662	L663																
V664	V665	M666	M670	G671	M672	Q673	L674	P675	L676	M679	V685	P686	L687	E688	G689	L690	T691	L692	G693	A694	P697	S698	L699	V700	V701	A702	M703	E704	Y705	L706	Y707	Y708	L709	R712	H713	I724	I725	Q726	V727	I730	A731	K732	A733	M734	F737	P738	I739																		
I740	L741	W742	W743	G746	R747	G748	G749	P750	H751	H752	E755	D756	H757	Q759	E760	I761	L762	L763	M764	M765	S766	R767	I768	S698	L699	K770	C771	V701	V833	V701	V833	A772	N773	I774	V775	L776	V777	A778	G779	S780	G781	F782	G783	G784	S785	E786	D787	T788	Y789	Q790	Q792	V791	L792	F793	G794	S795	M796	S797	Y798	M799	K799	F800	L662	F800	L663
Y802	P803	P804	M805	P806	F807	D808	G809	M811	S814	M816	M817	D818	A819	K820	E821	A822	H823	L824	S825	K826	Q827	A828	K829	I832	V833	V701	V833	A772	N773	I774	V775	L776	V777	A778	G779	S780	G781	F782	G783	G784	S785	E786	D787	T788	Y789	Q790	Q792	V791	L792	F793	G794	S795	M796	S797	Y798	M799	K799	F800	L662	F800	L663				
I866	H866	K867	L868	A869	T870	R871	G872	F875	H876	K877	L879	D880	K882	L883	F884	R888	R891	E894	L895	K896	K897	I832	V833	V701	V833	A772	N773	I774	V775	L776	V777	A778	G779	S780	G781	F782	G783	G784	S785	E786	D787	T788	Y789	Q790	Q792	V791	L792	F793	G794	S795	M796	S797	Y798	M799	K799	F800	L662	F800	L663						
I936	R937	M938	N939	L940	E941	N942	Y943	Y944	K948	H950	R951	D952	P953	S954	L955	K956	K957	F962	R964	R965	V966	Y966	I967	E968	R969	F970	R971	S972	Q976	F910	D838	P977	S978	L979	L980	Q981	D985	L986	D987	E988	P989	Y990	P991	R995	L996	D998	M999	L999	A999	T990	Y991	Y992	Y993	Y994	Y995	Y996	Y997	Y998	Y999	Y1000	P1001	E1002	Y1003	T1005	
Q1006	L1007	I1008	M1009	A1010	Q1011	D1012	V1013	Q1014	H1015	F1016	L1017	L1018	L1019	Q1020	Q1021	R1022	Q1025	K1026	P1027	V1028	P1029	F1030	V1031	P1032	A1033	L1034	D1035	E1036	E1039	Y1040	M1041	F1042	K1043	K1044	L1047	M1048	Q1049	S1050	I1051	D1052	I1053	Y1057	V1061	G1062	R1063	T1064	G1065	I1066	A999	P1067	Q1068	G1069	P1070	V1071	A1072										
A1073	K1074	Y1075	S1076	K1077	V1078	L1079	D1080	I1083	K1084	L1088	G1089	I1090	H1091	M1092	D1093	H1094	I1095	Y1103	D1104	F1105	K1106	E1107	E1108	M1109	V1110	P1111	V1112	I1113	E1114	Y1115	F1116	L1121	K1122	A1123	E1126	E1127	P1128	D1129	I1130	D1131	G1132	L1133	I1137	R1138	D1139	A1139	M1140	K1141	I1142																
S1143	L1146	M1152	N1153	L1154	P1155	D1156	V1157	S1159	F1160	I1164	S1170	M1171	R1172	K1173	M1174	F1175	F1176	T1177	L1178	E1179	L1180	F1181	M1182	Q1183	H1184	L1185	R1186	F1187	Q1188	M1189	L1190	P1191	L1192	K1193	L1194	L1195	F1196	A1197	P1198	T1199	R1200	M1201	Y1202	Y1203	V1204	E1205	I1206	T1207	M1208	P1209	D1210	D1211	P1212												
A1213	A1214	T1215	V1216	I1217	S1218	V1219	R1220	S1223	Q1224	S1225	A1226	K1227	L1228	V1229	K1230	I1234	K1235	L1236	V1237	G1238	D1239	M1240	T1245	L1246	F1247	E1248	G1249	L1250	T1251	V1256	V1257	P1258	L1259	T1260	F1261	R1262	Y1265	H1266	E1268	G1270	Y1271	I1274	R1275	E1276	V1277	M1278	R1284	I1285	F1288																
Y1289	L1290	R1291	V1292	M1293	F1294	K1297	E1298	V1299	P1300	F1301	D1302	T1303	P1304	L1305	T1306	A1307	V1308	F1309	R1313	L1314	E1315	G1316	M1317	A1318	Q1319	D1323	F1324	V1328	M1330	A1334	F1335	L1336	D1337	R1338	G1339	K1340	D1341	F1342	F1343	A1344	P1345	M1346	D1347	F1348	I1350	L1351	P1352	G1353	M1354	K1355	A1356	I1357													
T1358	K1359	P1360	L1361	F1362	P1363	R1364	K1365	I1366	D1369	L1370	L1371	K1372	L1373	L1374	L1375	Y1380	P1388	V1391	G1392	L1393	V1394	L1467	R1468	S1469	L1396	T1397	Q1400	I1401	M1402	A1403	V1404	L1405	D1406	S1409	G1410	K1411	L1412	V1413	C1416	G1417	T1418	L1419	K1420	R1421	D1422	M1423	P1424	P1425	V1426	M1427	F1433	L1434	A1435	Y1435											
R1436	G1437	V1438	L1439	T1440	F1441	R1442	K1443	L1444	L1445	T1445	E1451	V1452	F1453	M1454	Q1455	L1456	H1457	F1460	Q1462	D1463	L1464	A1465	V1466	L1467	R1468	S1469	L1396	T1397	Q1400	I1401	M1402	A1403	V1404	L1405	D1406	S1409	G1410	K1411	L1412	V1413	C1416	G1417	T1418	L1419	K1420	R1421	D1422	M1423	P1424	P1425	V1426	M1427	F1433	L1434	A1435	Y1435									
F1468	L1475	D1476	D1477	H1478	H1479	D1480	E1481	L1482	L1483	T1487	L1492	V1496	F1497	F1498	K1499	M1500	Y1504	S1505	S1506	V1507	I1510	G1511																																											







## 4 Data and refinement statistics i

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

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

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

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

## 5 Model quality i

### 5.1 Standard geometry i

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.38	0/11744	0.55	1/15873 (0.0%)
1	B	0.39	0/11801	0.55	1/15949 (0.0%)
1	C	0.40	0/11785	0.56	0/15928
1	D	0.39	0/11824	0.55	0/15980
1	E	0.39	0/11736	0.55	1/15863 (0.0%)
1	F	0.40	0/11776	0.56	2/15916 (0.0%)
2	G	0.34	0/16573	0.52	0/22516
2	H	0.34	0/16573	0.52	0/22516
2	I	0.34	0/16573	0.52	0/22516
2	J	0.35	0/16573	0.53	0/22516
2	K	0.38	0/16573	0.54	0/22516
2	L	0.35	0/16573	0.53	0/22516
All	All	0.37	0/170104	0.54	5/230605 (0.0%)

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

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

There are no bond length outliers.

All (5) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (2) planarity outliers are listed below:

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

## 5.2 Too-close contacts

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

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

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 33.

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1767:GLU:HB2	2:J:2016:PRO:HG3	1.08	1.06
2:L:511:THR:HG22	2:L:512:HIS:CD2	1.92	1.05
1:C:1389:ILE:HG13	1:F:1268:SER:HB3	1.13	1.05
1:C:427:ARG:HH11	1:C:427:ARG:HG3	1.16	1.04
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.17	1.04
1:C:1342:ARG:NH1	1:C:1347:THR:HB	1.73	1.04
1:C:1702:ARG:HG3	1:C:1702:ARG:HH11	1.22	1.04
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.16	1.03
2:I:511:THR:HG22	2:I:512:HIS:CD2	1.92	1.03
2:G:2052:LYS:H	2:G:2052:LYS:HE2	1.22	1.03
1:F:427:ARG:HH12	1:F:492:ILE:HG12	1.24	1.03
2:I:2052:LYS:H	2:I:2052:LYS:HE2	1.23	1.03
1:D:527:ALA:HB2	1:D:637:LEU:HD22	1.40	1.03
1:D:1342:ARG:NH1	1:D:1347:THR:HB	1.73	1.03
1:C:339:GLN:HE21	1:E:339:GLN:HE21	1.04	1.02
1:F:961:ALA:HB2	1:F:1022:LEU:HD12	1.41	1.02
1:F:989:ASN:H	1:F:1491:ASN:HD21	1.03	1.02
2:L:1985:GLN:HG3	2:L:1986:PRO:HD3	1.39	1.02
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.19	1.02
1:A:1389:ILE:HG13	1:E:1268:SER:HB3	1.08	1.02
2:H:511:THR:HG22	2:H:512:HIS:CD2	1.95	1.02
1:A:1342:ARG:NH1	1:A:1347:THR:HB	1.74	1.02
2:J:327:PRO:HD2	2:K:1338:ARG:HH21	1.22	1.02
2:J:595:SER:HB3	2:J:602:PRO:HG3	1.42	1.02
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.41	1.02
1:F:1342:ARG:NH1	1:F:1347:THR:HB	1.73	1.01
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.40	1.01
1:F:1702:ARG:HG3	1:F:1702:ARG:HH11	1.25	1.01
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.39	1.01
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.40	1.01
2:L:1123:ALA:HB3	2:L:1126:GLU:HG3	1.41	1.01
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.38	1.01
2:G:1985:GLN:HG3	2:G:1986:PRO:HD3	1.39	1.01
2:K:501:TRP:HE1	2:K:528:THR:HG22	1.24	1.01
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.41	1.01
1:D:1702:ARG:HH11	1:D:1702:ARG:HG3	1.22	1.01
2:L:300:THR:HB	2:L:303:GLU:H	1.26	1.01
2:L:1468:ARG:HG2	2:L:1468:ARG:HH11	1.24	1.01
1:B:989:ASN:H	1:B:1491:ASN:HD21	1.01	1.00
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.25	1.00
1:B:1499:ARG:HD3	1:D:1476:ARG:NH1	1.76	1.00

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.20	0.76
2:L:1335:PHE:HE1	2:L:1629:ILE:CD1	1.98	0.76
1:A:755:GLU:HG2	1:F:831:GLU:HG2	1.67	0.76
1:D:70:ALA:HB2	2:L:407:LYS:NZ	2.01	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.15	0.76
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.65	0.76
2:G:1265:TYR:CZ	2:G:1267:PRO:HG3	2.21	0.76
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.20	0.76
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.14	0.76
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.65	0.76
1:E:43:ARG:NH1	2:K:1687:GLN:NE2	2.34	0.76
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.15	0.76
2:J:468:PRO:CG	2:J:479:ARG:HH21	1.98	0.76
2:L:215:TRP:HE3	2:L:216:ASP:H	1.32	0.76
1:A:40:ARG:NH2	1:A:74:VAL:HG22	1.98	0.76
1:C:855:ALA:HA	1:C:919:ARG:HH21	1.51	0.76
1:C:1330:GLU:OE1	1:C:1340:MET:HB3	1.84	0.76
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.16	0.76
2:L:396:ILE:HD12	2:L:396:ILE:H	1.48	0.76
1:A:339:GLN:NE2	1:D:339:GLN:HE21	1.81	0.76
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.64	0.76
1:A:1623:THR:HG22	1:A:1633:GLN:HG3	1.66	0.76
1:C:1108:PRO:HG3	1:C:1141:ARG:HE	1.49	0.76
1:E:824:LEU:HB3	1:E:839:ILE:CD1	2.16	0.76
1:F:1108:PRO:HG3	1:F:1141:ARG:HE	1.49	0.76
2:H:1468:ARG:HG2	2:H:1468:ARG:NH1	2.00	0.76
2:K:1007:LEU:H	2:K:1007:LEU:HD12	1.49	0.76
2:K:1468:ARG:HG2	2:K:1468:ARG:NH1	1.98	0.76
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.15	0.76
2:L:1694:PHE:CD2	2:L:1843:ALA:HA	2.21	0.76
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.00	0.76
1:F:628:TYR:HD1	1:F:629:SER:N	1.84	0.76
1:F:1330:GLU:OE1	1:F:1340:MET:HB3	1.85	0.76
2:G:1339:GLY:HA2	2:I:376:ARG:HH21	1.50	0.76
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.51	0.76
2:H:914:TRP:NE1	2:H:916:GLY:HA3	1.99	0.76
1:B:998:GLY:HA3	1:B:1361:VAL:HG13	1.68	0.76
1:B:1686:PRO:HB2	1:B:1713:PHE:CD2	2.21	0.76
1:E:628:TYR:HD1	1:E:629:SER:N	1.84	0.76
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.68	0.76
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.51	0.76

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1610:MET:HE2	2:G:1610:MET:HA	1.70	0.73
2:J:1007:LEU:H	2:J:1007:LEU:HD12	1.53	0.73
2:J:1442:TYR:HA	2:J:1445:THR:HG22	1.69	0.73
2:K:272:PRO:O	2:K:276:LEU:HB2	1.88	0.73
2:K:396:ILE:H	2:K:396:ILE:HD12	1.54	0.73
1:C:998:GLY:HA3	1:C:1361:VAL:HG13	1.71	0.73
1:E:407:ARG:NH1	1:E:1606:VAL:HG23	2.04	0.73
2:I:31:LEU:HD13	2:I:75:LEU:HD11	1.71	0.73
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.02	0.73
2:I:855:ILE:HD13	2:I:856:THR:H	1.53	0.73
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.53	0.73
1:A:669:VAL:O	1:A:673:LEU:HD12	1.89	0.73
1:B:371:GLN:HG2	1:E:372:LEU:HD11	1.71	0.73
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.70	0.73
1:D:1443:LEU:O	1:D:1447:VAL:HG23	1.88	0.73
2:G:698:SER:HB3	2:G:701:VAL:CG2	2.17	0.73
2:G:1468:ARG:HG2	2:G:1468:ARG:NH1	1.98	0.73
2:H:752:HIS:HE1	2:H:847:TYR:CE2	2.07	0.73
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.23	0.73
2:I:1919:ASN:HB2	2:I:1928:VAL:HB	1.69	0.73
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.70	0.73
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.04	0.73
1:F:1217:GLU:O	1:F:1299:ALA:HB1	1.89	0.73
2:G:1067:LEU:HD13	3:G:2101:FMN:HM72	1.69	0.73
2:H:31:LEU:HD13	2:H:75:LEU:HD11	1.69	0.73
2:I:1265:TYR:CZ	2:I:1267:PRO:HG3	2.24	0.73
2:J:501:TRP:HE1	2:J:528:THR:CG2	1.99	0.73
2:J:1694:PHE:CD2	2:J:1843:ALA:HA	2.24	0.73
2:L:1067:LEU:HD13	3:L:2101:FMN:HM72	1.70	0.73
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.69	0.73
1:E:1363:MET:HE1	1:E:1373:VAL:HG21	1.70	0.73
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	1.89	0.73
2:H:471:ASP:HB3	2:H:474:THR:O	1.88	0.73
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.23	0.73
2:I:663:ILE:HD13	2:I:666:ASN:HB3	1.70	0.73
2:J:471:ASP:HB3	2:J:474:THR:O	1.88	0.73
2:J:955:LEU:HD21	2:J:1026:LYS:HB3	1.71	0.73
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.71	0.73
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.71	0.73
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.89	0.73
1:F:998:GLY:HA3	1:F:1361:VAL:HG13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.72	0.73
2:G:1694:PHE:CE2	2:G:1843:ALA:HA	2.24	0.73
2:I:1694:PHE:CE2	2:I:1843:ALA:HA	2.24	0.73
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	1.71	0.73
2:J:1335:PHE:CE2	2:J:1345:PRO:HG3	2.24	0.73
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.52	0.73
2:K:752:HIS:HE1	2:K:847:TYR:CE2	2.07	0.73
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.70	0.73
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.70	0.72
1:F:683:THR:HB	1:F:714:PHE:HB3	1.70	0.72
2:H:87:VAL:HG21	2:H:102:LEU:HD12	1.70	0.72
2:J:221:TYR:HE1	2:J:320:LEU:HD13	1.54	0.72
2:J:272:PRO:O	2:J:276:LEU:HB2	1.89	0.72
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.50	0.72
2:L:1335:PHE:CE2	2:L:1345:PRO:HG3	2.24	0.72
1:A:1431:GLN:HG2	1:E:1431:GLN:OE1	1.89	0.72
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.70	0.72
2:G:855:ILE:HD13	2:G:856:THR:H	1.53	0.72
2:H:1436:ARG:HH22	2:H:1602:LEU:HD21	1.53	0.72
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.51	0.72
2:H:1952:ASP:O	2:H:1956:LEU:HG	1.89	0.72
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.24	0.72
2:I:1289:TYR:CG	2:I:1370:LEU:HD23	2.23	0.72
2:I:1694:PHE:CD2	2:I:1843:ALA:HA	2.23	0.72
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.70	0.72
2:J:1694:PHE:CE2	2:J:1843:ALA:HA	2.24	0.72
2:K:31:LEU:HD13	2:K:75:LEU:HD11	1.69	0.72
2:L:174:GLY:H	2:L:517:GLY:HA3	1.54	0.72
2:L:193:TYR:HD2	2:L:263:ILE:HD13	1.54	0.72
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.71	0.72
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.72
2:G:290:VAL:HA	2:G:490:LEU:HD13	1.71	0.72
2:I:698:SER:HB3	2:I:701:VAL:CG2	2.18	0.72
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.71	0.72
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.72	0.72
2:K:193:TYR:HD2	2:K:263:ILE:HD13	1.55	0.72
2:K:503:THR:O	2:K:506:VAL:HG12	1.89	0.72
1:C:339:GLN:HE21	1:E:339:GLN:NE2	1.82	0.72
1:D:41:THR:HG22	2:J:1689:VAL:HG12	1.72	0.72
1:D:998:GLY:HA3	1:D:1361:VAL:HG13	1.69	0.72
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.70	0.72

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:689:ARG:NE	1:F:1339:GLU:HG2	2.05	0.71
1:F:999:LEU:HD21	1:F:1575:ASN:OD1	1.90	0.71
1:F:1079:ARG:HH11	1:F:1079:ARG:CG	2.02	0.71
2:G:1269:ALA:HB1	2:G:1271:TYR:CZ	2.25	0.71
2:I:1299:VAL:HG23	2:I:1301:PHE:CE2	2.24	0.71
2:J:2032:PRO:O	2:J:2036:ILE:HG13	1.90	0.71
1:A:406:ALA:HA	1:A:439:ARG:HH11	1.54	0.71
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.71	0.71
1:C:1230:SER:HA	1:C:1311:GLN:HE22	1.54	0.71
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.56	0.71
1:F:930:GLN:HA	1:F:933:ILE:HD12	1.72	0.71
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.53	0.71
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.72	0.71
2:K:81:ALA:HB2	2:K:139:ALA:HA	1.72	0.71
2:K:1335:PHE:CE2	2:K:1345:PRO:HG3	2.26	0.71
2:L:221:TYR:HE1	2:L:320:LEU:HD13	1.54	0.71
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.72	0.71
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.20	0.71
1:B:947:ASP:O	1:B:951:LEU:HG	1.90	0.71
1:B:983:GLN:HB3	1:B:1418:ILE:HD13	1.71	0.71
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.74	0.71
1:F:964:LYS:O	1:F:966:PRO:HD3	1.90	0.71
2:G:87:VAL:HG21	2:G:102:LEU:HD12	1.71	0.71
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.71
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.73	0.71
2:J:2008:THR:O	2:J:2011:ARG:HB2	1.90	0.71
2:L:1120:ILE:CD1	2:L:1167:ASN:O	2.38	0.71
1:F:1230:SER:HA	1:F:1311:GLN:HE22	1.56	0.71
2:G:752:HIS:HE1	2:G:847:TYR:CE2	2.09	0.71
2:H:129:ILE:HG23	2:H:132:LYS:H	1.54	0.71
2:H:290:VAL:HA	2:H:490:LEU:HD13	1.73	0.71
2:I:503:THR:O	2:I:506:VAL:HG12	1.91	0.71
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	1.72	0.71
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.73	0.71
2:K:1960:MET:HB3	2:K:1964:ASP:HB2	1.71	0.71
2:L:1694:PHE:CE2	2:L:1843:ALA:HA	2.25	0.71
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.71	0.71
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.89	0.71
1:B:831:GLU:HG2	1:E:755:GLU:HG2	1.71	0.71
1:B:1230:SER:HA	1:B:1311:GLN:HE22	1.56	0.71
1:C:406:ALA:HA	1:C:439:ARG:HH11	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:965:TYR:CZ	1:C:1199:LEU:HD22	2.26	0.71
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.26	0.71
1:E:930:GLN:HA	1:E:933:ILE:HD12	1.72	0.71
1:E:973:TRP:CE2	1:E:1648:LYS:HB2	2.25	0.71
2:I:221:TYR:HE1	2:I:320:LEU:HD13	1.54	0.71
2:J:1179:GLU:H	2:J:1179:GLU:CD	1.94	0.71
2:L:1223:SER:HB2	2:L:1226:ALA:HB3	1.72	0.71
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.73	0.71
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.71	0.71
1:B:999:LEU:HD21	1:B:1575:ASN:OD1	1.91	0.71
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.54	0.71
1:B:1142:LEU:HD12	1:B:1142:LEU:H	1.55	0.71
1:D:474:ILE:O	1:D:478:LYS:HG3	1.91	0.71
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.26	0.71
2:H:663:ILE:HD13	2:H:666:ASN:HB3	1.72	0.71
2:I:2008:THR:O	2:I:2011:ARG:HB2	1.91	0.71
2:K:174:GLY:H	2:K:517:GLY:HA3	1.55	0.71
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.89	0.71
2:K:1780:ILE:HG23	2:K:1869:VAL:HG11	1.73	0.71
2:L:22:ARG:HG3	2:L:39:THR:HA	1.71	0.71
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.73	0.70
1:B:406:ALA:HA	1:B:439:ARG:NH1	2.05	0.70
1:B:474:ILE:O	1:B:478:LYS:HG3	1.91	0.70
2:H:1179:GLU:CD	2:H:1179:GLU:H	1.94	0.70
2:I:771:CYS:HB3	2:I:774:ILE:HD12	1.73	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.25	0.70
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.54	0.70
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.90	0.70
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.90	0.70
1:C:1476:ARG:NH1	1:F:1499:ARG:HD3	2.05	0.70
1:E:1230:SER:HA	1:E:1311:GLN:HE22	1.55	0.70
2:H:1694:PHE:CE2	2:H:1843:ALA:HA	2.27	0.70
2:I:174:GLY:H	2:I:517:GLY:HA3	1.56	0.70
2:K:854:VAL:HG21	2:K:1070:PRO:HA	1.74	0.70
1:E:1565:PRO:HG3	1:E:1572:TRP:CZ3	2.26	0.70
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.72	0.70
2:H:1694:PHE:CD2	2:H:1843:ALA:HA	2.26	0.70
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.74	0.70
2:J:814:SER:HB2	3:J:2101:FMN:O3P	1.90	0.70
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.73	0.70

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:129:ILE:HG23	2:J:132:LYS:H	1.57	0.69
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.72	0.69
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.73	0.69
2:K:1156:ASP:HB3	2:K:1158:ASP:H	1.57	0.69
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.73	0.69
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.22	0.69
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.75	0.69
2:I:1156:ASP:HB3	2:I:1158:ASP:H	1.57	0.69
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.92	0.69
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.28	0.69
2:L:1299:VAL:HG23	2:L:1301:PHE:CE2	2.28	0.69
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	1.74	0.69
1:A:1663:LYS:HG2	2:G:1007:LEU:HD11	1.74	0.69
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.50	0.69
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.28	0.69
1:D:1443:LEU:CD1	1:D:1470:ARG:HB3	2.22	0.69
2:H:698:SER:HB3	2:H:701:VAL:CG2	2.22	0.69
2:H:1299:VAL:HG23	2:H:1301:PHE:HE2	1.58	0.69
2:I:1478:GLN:HG3	2:I:1479:HIS:H	1.57	0.69
2:K:766:SER:O	2:K:770:LYS:HG3	1.92	0.69
2:K:771:CYS:HB3	2:K:774:ILE:HD12	1.73	0.69
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.27	0.69
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.93	0.69
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.58	0.69
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.07	0.69
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.27	0.69
2:G:193:TYR:HD2	2:G:263:ILE:HD13	1.58	0.69
2:H:43:PHE:CB	2:I:22:ARG:CZ	2.71	0.69
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.03	0.69
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.74	0.69
2:I:938:MET:HE2	2:I:959:THR:HG22	1.74	0.69
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.74	0.69
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.22	0.69
2:K:595:SER:HB3	2:K:602:PRO:CG	2.19	0.69
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.27	0.69
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.03	0.69
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.69
2:J:384:ASN:HB3	2:J:527:LEU:HD11	1.74	0.69
2:K:868:LEU:O	2:K:870:THR:HG23	1.92	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69
1:A:1697:LEU:O	1:A:1699:PRO:HD3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.22	0.69
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.75	0.69
1:F:406:ALA:HA	1:F:439:ARG:HH11	1.58	0.69
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.27	0.69
2:I:44:GLN:O	2:I:48:LEU:HG	1.92	0.69
2:I:384:ASN:CB	2:I:527:LEU:HD11	2.22	0.69
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.75	0.69
2:K:529:ASN:HD22	2:K:552:VAL:HG22	1.57	0.69
2:K:865:ILE:HG21	2:K:867:LYS:HE3	1.73	0.69
2:K:955:LEU:HD21	2:K:1026:LYS:HB3	1.74	0.69
2:L:752:HIS:HE1	2:L:847:TYR:CE2	2.11	0.69
2:L:2008:THR:O	2:L:2011:ARG:HB2	1.91	0.69
2:L:2032:PRO:O	2:L:2036:ILE:HG13	1.93	0.69
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.01	0.69
1:A:930:GLN:HA	1:A:933:ILE:HD12	1.74	0.69
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.28	0.69
1:B:669:VAL:O	1:B:673:LEU:HD12	1.93	0.69
1:C:983:GLN:HB3	1:C:1418:ILE:HD13	1.74	0.69
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.75	0.69
2:G:752:HIS:HE1	2:G:847:TYR:HE2	1.40	0.69
2:G:1694:PHE:CD2	2:G:1843:ALA:HA	2.27	0.69
2:I:1472:TRP:HB3	2:I:1530:TYR:HB2	1.75	0.69
2:K:22:ARG:HG3	2:K:39:THR:HA	1.75	0.69
2:L:193:TYR:CD2	2:L:263:ILE:HD13	2.27	0.69
2:L:376:ARG:HB3	2:L:394:PRO:HG2	1.75	0.69
2:L:503:THR:O	2:L:506:VAL:HG12	1.93	0.69
1:A:965:TYR:CZ	1:A:1199:LEU:HD22	2.28	0.69
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.28	0.69
1:F:427:ARG:NH1	1:F:492:ILE:CG1	2.56	0.69
2:G:814:SER:HB2	3:G:2101:FMN:O3P	1.93	0.69
2:J:503:THR:O	2:J:506:VAL:HG12	1.93	0.69
2:J:1179:GLU:HA	2:J:1190:ASN:HB2	1.75	0.69
2:K:752:HIS:HE1	2:K:847:TYR:HE2	1.39	0.69
2:L:663:ILE:HD13	2:L:666:ASN:HB3	1.74	0.69
1:C:930:GLN:HA	1:C:933:ILE:HD12	1.75	0.68
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.75	0.68
1:F:40:ARG:NH2	1:F:74:VAL:HG22	2.07	0.68
2:G:174:GLY:H	2:G:517:GLY:HA3	1.57	0.68
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.33	0.68
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.74	0.68
2:J:1479:HIS:CD2	2:J:1481:ILE:HG12	2.27	0.68

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.25	0.67
1:D:47:ILE:HB	2:J:1694:PHE:CD1	2.29	0.67
1:D:557:ARG:HG3	1:D:557:ARG:NH1	1.99	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.28	0.67
1:F:1443:LEU:CD1	1:F:1470:ARG:HB3	2.25	0.67
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.58	0.67
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.75	0.67
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.76	0.67
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.25	0.67
2:L:44:GLN:O	2:L:48:LEU:HG	1.94	0.67
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.30	0.67
1:A:673:LEU:O	1:A:678:ALA:HB3	1.94	0.67
1:B:18:LEU:HD21	2:H:1844:LEU:HD11	1.77	0.67
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.29	0.67
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	1.95	0.67
1:D:999:LEU:HD21	1:D:1575:ASN:OD1	1.94	0.67
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.76	0.67
1:E:1443:LEU:CD1	1:E:1470:ARG:HB3	2.25	0.67
1:F:911:LEU:O	1:F:915:MET:HG3	1.95	0.67
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.59	0.67
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.10	0.67
2:K:1888:PRO:HB3	2:K:1895:PHE:HD1	1.60	0.67
2:L:1888:PRO:HB3	2:L:1895:PHE:HD1	1.58	0.67
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.22	0.67
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.60	0.67
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.77	0.67
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.30	0.67
2:I:845:ASN:HB3	2:I:851:THR:OG1	1.93	0.67
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.75	0.67
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.77	0.67
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.76	0.67
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.13	0.67
1:B:1211:LYS:O	1:B:1702:ARG:HD3	1.95	0.67
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.30	0.67
1:D:2:ARG:HD2	1:D:5:VAL:HG21	1.76	0.67
2:G:955:LEU:HD21	2:G:1026:LYS:HB3	1.76	0.67
2:H:21:LEU:HD22	2:H:36:LEU:HD22	1.77	0.67
2:H:44:GLN:O	2:H:48:LEU:HG	1.94	0.67
2:J:595:SER:HB3	2:J:602:PRO:CG	2.22	0.67
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	1.76	0.67
2:K:938:MET:HE2	2:K:959:THR:HG22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1436:ARG:NH2	2:K:1602:LEU:HD21	2.09	0.67
2:L:1335:PHE:HE1	2:L:1629:ILE:HD13	1.58	0.67
2:L:1472:TRP:HB3	2:L:1530:TYR:HB2	1.75	0.67
2:L:1602:LEU:HD13	2:L:1606:ILE:HD12	1.77	0.67
1:A:1078:ILE:HD13	1:A:1352:MET:HG2	1.76	0.67
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.10	0.67
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.75	0.67
2:G:129:ILE:HG23	2:G:132:LYS:H	1.59	0.67
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.77	0.67
2:H:1156:ASP:HB3	2:H:1158:ASP:H	1.60	0.67
2:I:752:HIS:HE1	2:I:847:TYR:HE2	1.41	0.67
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.25	0.67
2:K:486:ILE:HG22	2:K:490:LEU:HG	1.76	0.67
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.75	0.66
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.75	0.66
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.76	0.66
1:E:967:PHE:CE2	1:E:1374:PRO:HG3	2.29	0.66
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.25	0.66
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.09	0.66
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.10	0.66
2:I:2032:PRO:O	2:I:2036:ILE:HG13	1.95	0.66
2:J:1288:PHE:O	2:J:1292:VAL:HG23	1.94	0.66
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.75	0.66
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.75	0.66
2:L:1094:HIS:O	2:L:1098:LEU:HB2	1.95	0.66
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.59	0.66
1:A:1268:SER:HB3	1:E:1389:ILE:CG1	2.11	0.66
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.30	0.66
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.60	0.66
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.76	0.66
2:H:1097:PHE:HD2	2:H:1100:ARG:HH12	1.43	0.66
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.75	0.66
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.08	0.66
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.95	0.66
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.11	0.66
1:C:406:ALA:HA	1:C:439:ARG:NH1	2.09	0.66
1:C:1211:LYS:O	1:C:1702:ARG:HD3	1.94	0.66
1:D:422:LEU:HB3	1:D:429:ILE:HD11	1.77	0.66
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.60	0.66
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.26	0.66
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.76	0.66

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.12	0.65
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.31	0.65
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.26	0.65
2:J:903:ILE:HD11	2:J:914:TRP:CE2	2.31	0.65
2:J:1551:ILE:HG12	2:J:1552:GLU:H	1.60	0.65
2:K:608:MET:H	2:K:612:THR:HB	1.60	0.65
2:K:876:TRP:CH2	2:K:1043:LYS:HB2	2.32	0.65
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.30	0.65
2:K:1478:GLN:HG3	2:K:1479:HIS:H	1.61	0.65
2:L:468:PRO:CD	2:L:479:ARG:HH21	2.08	0.65
2:L:486:ILE:HG22	2:L:490:LEU:HG	1.77	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.10	0.65
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.32	0.65
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.30	0.65
1:E:777:LEU:O	1:E:781:ILE:HG13	1.95	0.65
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.31	0.65
1:F:613:PRO:O	1:F:614:PHE:HB2	1.96	0.65
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	1.78	0.65
2:G:1888:PRO:HB3	2:G:1895:PHE:HD1	1.62	0.65
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.77	0.65
2:H:1946:LEU:HD22	2:H:1951:ILE:HD13	1.77	0.65
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.78	0.65
2:J:876:TRP:CH2	2:J:1043:LYS:HB2	2.30	0.65
2:K:1094:HIS:O	2:K:1098:LEU:HB2	1.96	0.65
2:K:1602:LEU:HD13	2:K:1606:ILE:HD12	1.78	0.65
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.77	0.65
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.32	0.65
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.25	0.65
1:D:1217:GLU:O	1:D:1299:ALA:HB1	1.96	0.65
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.11	0.65
1:D:1448:ALA:HA	1:D:1451:LYS:HD2	1.76	0.65
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.78	0.65
1:F:1142:LEU:H	1:F:1142:LEU:HD12	1.59	0.65
2:H:584:SER:HB2	2:H:1114:GLU:HA	1.78	0.65
2:H:1468:ARG:HH11	2:H:1468:ARG:CB	2.09	0.65
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.62	0.65
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.09	0.65
2:J:1156:ASP:HB3	2:J:1158:ASP:H	1.62	0.65
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.79	0.65
2:K:1200:ARG:HD3	2:K:1200:ARG:H	1.60	0.65
2:L:752:HIS:HE1	2:L:847:TYR:HE2	1.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1551:ILE:HG12	2:L:1552:GLU:H	1.61	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.77	0.65
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.79	0.65
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.77	0.65
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.27	0.65
1:D:433:CYS:O	1:D:437:MET:HG3	1.97	0.65
1:D:440:SER:HB3	1:D:481:LEU:HD23	1.78	0.65
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.60	0.65
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.65
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.95	0.65
2:H:1335:PHE:HE1	2:H:1629:ILE:CD1	2.09	0.65
2:J:35:PHE:CZ	2:J:105:ILE:HD13	2.32	0.65
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.78	0.65
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.12	0.65
2:J:1115:TYR:OH	2:J:1173:HIS:HD2	1.80	0.65
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.79	0.65
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.78	0.65
2:L:485:ASP:HB3	2:L:488:PRO:CD	2.27	0.65
1:B:440:SER:HB3	1:B:481:LEU:HD23	1.79	0.65
1:B:1499:ARG:CD	1:D:1476:ARG:NH1	2.58	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:CE2	2.31	0.65
1:D:542:GLN:HB3	1:D:579:MET:CE	2.26	0.65
1:D:580:ASN:O	1:D:584:ILE:HG13	1.96	0.65
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.62	0.65
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.12	0.65
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.62	0.65
2:H:635:TYR:CG	2:H:641:MET:HG3	2.32	0.65
2:I:594:MET:HB3	2:I:808:ASP:O	1.96	0.65
2:I:1551:ILE:HG12	2:I:1552:GLU:N	2.12	0.65
2:I:1750:GLY:O	2:I:1755:LYS:HE3	1.97	0.65
2:J:67:ASP:HA	2:J:132:LYS:HE2	1.78	0.65
2:L:1335:PHE:CE1	2:L:1629:ILE:CD1	2.79	0.65
1:A:406:ALA:HA	1:A:439:ARG:NH1	2.11	0.65
1:A:532:ILE:CG2	1:A:907:PHE:HB2	2.25	0.65
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.30	0.65
1:B:340:LEU:HD21	1:E:340:LEU:HD21	1.79	0.65
1:D:31:THR:HG23	2:J:2040:ILE:HG21	1.76	0.65
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.78	0.65
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.32	0.65
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.78	0.65
2:I:1468:ARG:HH11	2:I:1468:ARG:CB	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.31	0.65
2:L:771:CYS:HB3	2:L:774:ILE:HD12	1.77	0.65
1:C:831:GLU:HG2	1:D:755:GLU:CG	2.25	0.65
1:E:1217:GLU:O	1:E:1299:ALA:HB1	1.97	0.65
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.97	0.65
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.06	0.65
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.78	0.65
2:H:1094:HIS:O	2:H:1098:LEU:HB2	1.97	0.65
2:I:468:PRO:CD	2:I:479:ARG:HH21	2.10	0.65
2:J:616:ASP:OD2	2:J:823:HIS:HE1	1.78	0.65
2:J:1948:MET:CE	2:J:1948:MET:HA	2.27	0.65
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.32	0.65
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.32	0.65
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.79	0.65
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.61	0.65
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.62	0.65
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.97	0.65
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.27	0.65
2:G:771:CYS:HB3	2:G:774:ILE:HD12	1.78	0.65
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.32	0.65
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.61	0.65
2:H:865:ILE:HG21	2:H:867:LYS:HE3	1.79	0.65
2:H:903:ILE:HD11	2:H:914:TRP:CE2	2.32	0.65
2:I:1200:ARG:H	2:I:1200:ARG:HD3	1.61	0.65
2:K:1468:ARG:HH11	2:K:1468:ARG:CB	2.09	0.65
2:L:595:SER:HB3	2:L:602:PRO:CG	2.26	0.65
2:L:766:SER:O	2:L:770:LYS:HG3	1.97	0.65
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.27	0.65
1:B:1224:SER:HB2	1:B:1307:PHE:O	1.97	0.65
1:C:427:ARG:NH1	1:C:492:ILE:CG1	2.59	0.65
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.79	0.65
1:D:29:ILE:HD11	2:J:1922:VAL:C	2.17	0.65
1:D:669:VAL:O	1:D:673:LEU:HD12	1.97	0.65
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.32	0.65
1:E:1108:PRO:HG3	1:E:1141:ARG:NE	2.11	0.65
1:E:1574:LEU:HD12	1:E:1622:VAL:HG11	1.77	0.65
2:G:1602:LEU:HD13	2:G:1606:ILE:HD12	1.78	0.65
2:H:964:ARG:O	2:H:967:GLU:HB2	1.96	0.65
2:H:2059:HIS:ND1	2:H:2067:ILE:HG22	2.11	0.65
2:I:608:MET:H	2:I:612:THR:HB	1.61	0.65
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	1.79	0.65
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.78	0.65
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.27	0.65
2:L:876:TRP:CH2	2:L:1043:LYS:HB2	2.32	0.65
1:A:1630:LYS:HD2	1:E:1273:ILE:HD11	1.78	0.64
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.50	0.64
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.79	0.64
2:G:1478:GLN:HG3	2:G:1479:HIS:N	2.13	0.64
2:H:486:ILE:HG22	2:H:490:LEU:HG	1.78	0.64
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.32	0.64
2:H:1179:GLU:HA	2:H:1190:ASN:HB2	1.79	0.64
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.32	0.64
2:I:1097:PHE:HD2	2:I:1100:ARG:HH12	1.45	0.64
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.79	0.64
2:J:594:MET:HB3	2:J:808:ASP:O	1.96	0.64
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.32	0.64
2:J:1223:SER:HB2	2:J:1226:ALA:HB3	1.79	0.64
2:K:915:PHE:CD2	2:K:915:PHE:O	2.50	0.64
2:K:2059:HIS:ND1	2:K:2067:ILE:HG22	2.12	0.64
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.06	0.64
1:A:1217:GLU:O	1:A:1299:ALA:HB1	1.96	0.64
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.62	0.64
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.78	0.64
1:B:1448:ALA:HA	1:B:1451:LYS:HD2	1.78	0.64
1:C:371:GLN:HG2	1:D:372:LEU:HD11	1.79	0.64
1:D:43:ARG:NH1	2:J:1687:GLN:HE21	1.95	0.64
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.78	0.64
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.77	0.64
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.32	0.64
1:F:1702:ARG:CG	1:F:1702:ARG:NH1	2.49	0.64
2:G:1687:GLN:O	2:G:1828:GLN:NE2	2.31	0.64
2:H:1472:TRP:HB3	2:H:1530:TYR:HB2	1.79	0.64
2:I:663:ILE:H	2:I:663:ILE:HD12	1.63	0.64
2:J:865:ILE:HG21	2:J:867:LYS:HE3	1.79	0.64
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.78	0.64
2:K:752:HIS:CE1	2:K:847:TYR:HE2	2.16	0.64
2:K:1299:VAL:HG23	2:K:1301:PHE:HE2	1.61	0.64
2:K:1948:MET:HA	2:K:1948:MET:CE	2.26	0.64
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.79	0.64
2:L:1468:ARG:HH11	2:L:1468:ARG:CB	2.10	0.64
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.80	0.64

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.64
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.77	0.64
2:L:635:TYR:CG	2:L:641:MET:HG3	2.33	0.64
2:L:1551:ILE:HG12	2:L:1552:GLU:N	2.13	0.64
1:A:1310:PHE:CE1	1:A:1315:SER:HB2	2.33	0.64
1:B:1107:GLU:HG3	1:B:1108:PRO:HD2	1.79	0.64
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.80	0.64
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.33	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:N	2.13	0.64
2:H:1478:GLN:HG3	2:H:1479:HIS:N	2.11	0.64
2:I:1299:VAL:HG23	2:I:1301:PHE:HE2	1.59	0.64
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.27	0.64
2:K:493:MET:HA	2:K:497:ASP:HB2	1.78	0.64
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.79	0.64
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.62	0.64
1:B:554:ARG:O	1:B:555:GLN:HG3	1.98	0.64
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.79	0.64
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.28	0.64
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.61	0.64
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.79	0.64
1:D:1211:LYS:O	1:D:1702:ARG:HD3	1.98	0.64
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.80	0.64
2:G:595:SER:HB3	2:G:602:PRO:CG	2.25	0.64
2:G:1551:ILE:HG12	2:G:1552:GLU:H	1.61	0.64
2:H:193:TYR:CD2	2:H:263:ILE:HD13	2.33	0.64
2:I:726:GLN:O	2:I:730:ILE:HG12	1.98	0.64
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.79	0.64
2:I:1946:LEU:HD22	2:I:1951:ILE:HD13	1.78	0.64
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.80	0.64
2:L:827:GLN:NE2	2:L:827:GLN:H	1.96	0.64
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.79	0.64
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.79	0.64
1:A:1432:ILE:HD11	1:A:1481:GLN:HB3	1.80	0.64
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.78	0.64
2:G:930:THR:CG2	2:G:933:GLU:H	2.10	0.64
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	1.79	0.64
2:H:193:TYR:HD2	2:H:263:ILE:HD13	1.62	0.64
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.80	0.64
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.33	0.64
2:I:1442:TYR:HA	2:I:1445:THR:HG22	1.78	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.63	0.64
2:L:1019:LEU:O	2:L:1022:ARG:HG2	1.98	0.64
2:L:1641:GLY:HA3	2:L:1678:VAL:HA	1.79	0.64
2:L:1948:MET:HA	2:L:1948:MET:CE	2.28	0.64
1:B:911:LEU:O	1:B:915:MET:HG3	1.98	0.63
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.32	0.63
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.28	0.63
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.58	0.63
1:E:1018:GLY:HA2	1:E:1590:ARG:NH2	2.13	0.63
1:F:1364:THR:HG22	1:F:1366:GLN:H	1.63	0.63
2:H:1848:ALA:HA	2:H:2034:LYS:HD3	1.79	0.63
2:I:1299:VAL:CG2	2:I:1301:PHE:HE2	2.11	0.63
2:I:1335:PHE:CE1	2:I:1629:ILE:HD11	2.34	0.63
2:J:549:ASN:HD22	2:J:550:THR:N	1.97	0.63
2:J:1551:ILE:HG12	2:J:1552:GLU:N	2.14	0.63
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.61	0.63
2:K:1299:VAL:CG2	2:K:1301:PHE:HE2	2.10	0.63
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.28	0.63
2:L:663:ILE:HD12	2:L:663:ILE:H	1.63	0.63
1:A:70:ALA:HB2	2:I:407:LYS:NZ	2.13	0.63
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.80	0.63
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.13	0.63
1:B:1106:LEU:HD23	1:B:1107:GLU:H	1.62	0.63
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.33	0.63
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.13	0.63
1:F:1448:ALA:HA	1:F:1451:LYS:HD2	1.79	0.63
1:F:1573:MET:HE2	1:F:1622:VAL:HG23	1.80	0.63
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.51	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.62	0.63
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.26	0.63
2:I:1478:GLN:HG3	2:I:1479:HIS:N	2.12	0.63
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.28	0.63
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.27	0.63
2:L:762:LEU:HD22	2:L:802:TYR:CD2	2.28	0.63
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.13	0.63
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.28	0.63
1:A:777:LEU:O	1:A:781:ILE:HG13	1.98	0.63
1:B:956:ILE:HA	2:H:977:PRO:HA	1.81	0.63
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.62	0.63
1:B:1432:ILE:HD11	1:B:1481:GLN:HB3	1.81	0.63
1:C:1499:ARG:HD3	1:F:1476:ARG:NH1	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:605:ARG:HB3	1:D:606:PRO:HD3	1.78	0.63
1:D:689:ARG:NH1	1:D:1339:GLU:OE2	2.31	0.63
1:D:930:GLN:HA	1:D:933:ILE:HD12	1.80	0.63
1:E:433:CYS:O	1:E:437:MET:HG3	1.99	0.63
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.32	0.63
2:G:486:ILE:HG22	2:G:490:LEU:HG	1.78	0.63
2:G:938:MET:HE2	2:G:959:THR:HG22	1.80	0.63
2:G:1053:ILE:HD12	2:G:1061:VAL:HG22	1.80	0.63
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	1.98	0.63
2:H:67:ASP:HA	2:H:132:LYS:HE2	1.81	0.63
2:H:1200:ARG:HD3	2:H:1200:ARG:H	1.63	0.63
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.63	0.63
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.80	0.63
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.14	0.63
2:L:1299:VAL:CG2	2:L:1301:PHE:HE2	2.11	0.63
1:A:422:LEU:HB3	1:A:429:ILE:HD11	1.80	0.63
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.79	0.63
1:B:992:LYS:HE2	1:D:1495:ARG:NH1	2.14	0.63
1:C:12:THR:O	1:C:16:GLU:HG2	1.99	0.63
1:D:580:ASN:ND2	1:D:582:SER:HB2	2.14	0.63
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.64	0.63
1:E:682:VAL:HG11	1:E:695:TYR:HE2	1.64	0.63
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.78	0.63
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.06	0.63
2:G:608:MET:H	2:G:612:THR:HB	1.62	0.63
2:H:250:PHE:HA	2:H:287:GLN:NE2	2.14	0.63
2:H:752:HIS:CE1	2:H:847:TYR:HE2	2.16	0.63
2:H:876:TRP:CH2	2:H:1043:LYS:HB2	2.34	0.63
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	2.13	0.63
2:I:35:PHE:CZ	2:I:105:ILE:HD13	2.33	0.63
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.13	0.63
2:I:1224:GLN:HG3	2:I:1578:GLU:OE2	1.98	0.63
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.63
2:I:2059:HIS:ND1	2:I:2067:ILE:HG22	2.14	0.63
2:J:1593:SER:OG	2:J:1596:PHE:HB2	1.98	0.63
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.28	0.63
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.99	0.63
1:A:427:ARG:HH12	1:A:492:ILE:HG12	1.62	0.63
1:A:533:SER:HA	1:F:579:MET:HE1	1.80	0.63
1:B:18:LEU:HD21	2:H:1844:LEU:CD1	2.28	0.63
1:B:1505:GLY:O	1:B:1509:THR:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:811:ASP:HB3	1:C:814:TYR:HB3	1.80	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.96	0.63
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.33	0.63
1:E:612:ILE:HG12	1:E:628:TYR:HE2	1.62	0.63
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.79	0.63
2:G:979:LEU:HD21	2:G:999:ALA:HB3	1.80	0.63
2:G:1094:HIS:O	2:G:1098:LEU:HB2	1.99	0.63
2:H:979:LEU:HD21	2:H:999:ALA:HB3	1.81	0.63
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.33	0.63
2:J:1094:HIS:O	2:J:1098:LEU:HB2	1.97	0.63
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.25	0.63
2:L:35:PHE:CZ	2:L:105:ILE:HD13	2.34	0.63
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.28	0.63
2:L:1371:LEU:O	2:L:1590:ILE:HD11	1.99	0.63
1:D:1463:GLU:O	1:D:1467:LEU:HB2	1.98	0.63
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.81	0.63
2:G:81:ALA:HB2	2:G:139:ALA:HA	1.80	0.63
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.80	0.63
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.28	0.63
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.80	0.63
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.33	0.63
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.80	0.63
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.80	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.64	0.63
1:E:1432:ILE:HD11	1:E:1481:GLN:HB3	1.81	0.63
1:F:669:VAL:O	1:F:673:LEU:HD12	1.98	0.63
2:I:250:PHE:HA	2:I:287:GLN:NE2	2.13	0.63
2:I:955:LEU:HD21	2:I:1026:LYS:HB3	1.81	0.63
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.81	0.63
2:J:290:VAL:HG11	2:J:315:LEU:HD13	1.79	0.63
2:J:752:HIS:CE1	2:J:847:TYR:HE2	2.16	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.64	0.63
2:L:138:ARG:HB3	2:L:192:THR:HG23	1.81	0.63
2:L:903:ILE:HD11	2:L:914:TRP:CE2	2.34	0.63
2:L:1097:PHE:HD2	2:L:1100:ARG:HH12	1.47	0.63
2:L:1299:VAL:HG23	2:L:1301:PHE:HE2	1.63	0.63
1:A:1078:ILE:HB	1:A:1338:GLY:CA	2.29	0.63
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.63	0.63
1:C:689:ARG:NE	1:C:1339:GLU:HG2	2.14	0.63
1:D:619:LYS:HG2	1:D:620:LYS:H	1.64	0.63
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.82	0.63
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.14	0.63
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.80	0.63
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.79	0.63
2:G:1223:SER:HB2	2:G:1226:ALA:HB3	1.79	0.63
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.28	0.63
2:I:486:ILE:HG22	2:I:490:LEU:HG	1.79	0.63
2:I:752:HIS:CE1	2:I:847:TYR:HE2	2.16	0.63
2:I:938:MET:HB3	2:I:959:THR:HG22	1.80	0.63
2:I:1985:GLN:HG3	2:I:1986:PRO:CD	2.24	0.63
2:J:1848:ALA:HA	2:J:2034:LYS:HD3	1.81	0.63
2:K:448:HIS:HD2	2:K:491:VAL:HG12	1.64	0.63
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.98	0.63
2:K:1848:ALA:HA	2:K:2034:LYS:HD3	1.81	0.63
2:L:382:LEU:HG	2:L:390:VAL:HB	1.80	0.63
2:L:529:ASN:HD22	2:L:552:VAL:HG22	1.63	0.63
1:A:2:ARG:HD2	1:A:5:VAL:HG21	1.80	0.63
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.29	0.63
1:F:422:LEU:HB3	1:F:429:ILE:HD11	1.80	0.63
2:G:250:PHE:HA	2:G:287:GLN:NE2	2.13	0.63
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.34	0.63
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.34	0.63
2:G:382:LEU:HG	2:G:390:VAL:HB	1.81	0.63
2:G:583:THR:OG1	2:G:587:GLN:HB2	1.97	0.63
2:G:1479:HIS:CD2	2:G:1481:ILE:HG12	2.34	0.63
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	1.99	0.63
2:J:610:PRO:CD	3:J:2101:FMN:H6	2.29	0.63
2:J:1404:VAL:O	2:J:1445:THR:HA	1.99	0.63
2:J:1896:THR:HG22	2:J:1897:GLU:N	2.13	0.63
2:L:818:THR:HA	2:L:829:LYS:HG2	1.80	0.63
2:L:2057:GLU:HA	2:L:2060:ARG:NH1	2.14	0.63
1:A:1610:ARG:HH11	1:A:1610:ARG:CG	1.91	0.62
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.14	0.62
1:B:1217:GLU:O	1:B:1299:ALA:HB1	1.99	0.62
1:C:422:LEU:HB3	1:C:429:ILE:HD11	1.79	0.62
1:D:70:ALA:HB2	2:L:407:LYS:HZ1	1.64	0.62
2:H:595:SER:HB3	2:H:602:PRO:CG	2.25	0.62
2:I:930:THR:CG2	2:I:933:GLU:H	2.12	0.62
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.81	0.62
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.63	0.62
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.62
2:K:979:LEU:HD21	2:K:999:ALA:HB3	1.80	0.62
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.81	0.62
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.64	0.62
2:L:814:SER:HB2	3:L:2101:FMN:O3P	1.99	0.62
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.81	0.62
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.80	0.62
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.34	0.62
1:E:1078:ILE:HB	1:E:1338:GLY:CA	2.29	0.62
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.45	0.62
1:F:1018:GLY:HA2	1:F:1590:ARG:NH2	2.14	0.62
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.80	0.62
2:G:818:THR:HA	2:G:829:LYS:HG2	1.81	0.62
2:G:1200:ARG:H	2:G:1200:ARG:HD3	1.64	0.62
2:H:623:ASN:OD1	2:H:653:PRO:HD3	2.00	0.62
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.81	0.62
2:I:472:THR:H	2:I:493:MET:HE3	1.63	0.62
2:J:915:PHE:O	2:J:915:PHE:CD2	2.52	0.62
2:K:352:SER:HB2	2:K:433:LEU:HD21	1.81	0.62
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.81	0.62
1:B:1463:GLU:O	1:B:1467:LEU:HB2	1.98	0.62
1:C:1108:PRO:HG3	1:C:1141:ARG:NE	2.15	0.62
1:E:689:ARG:NH2	1:E:1591:ASN:HD21	1.96	0.62
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.60	0.62
2:G:752:HIS:CE1	2:G:847:TYR:HE2	2.17	0.62
2:G:865:ILE:HG21	2:G:867:LYS:HE3	1.80	0.62
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.34	0.62
2:G:1472:TRP:HB3	2:G:1530:TYR:HB2	1.80	0.62
2:G:1610:MET:HA	2:G:1610:MET:CE	2.29	0.62
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	1.99	0.62
2:J:779:GLY:HA3	2:J:811:MET:CE	2.30	0.62
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.34	0.62
2:L:915:PHE:CD2	2:L:915:PHE:O	2.52	0.62
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.22	0.62
2:L:1866:THR:HA	2:L:1869:VAL:HG22	1.81	0.62
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.29	0.62
1:A:397:ARG:HH11	1:A:692:THR:HG21	1.64	0.62
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.82	0.62
1:B:562:SER:OG	1:E:551:LEU:HD21	2.00	0.62
1:D:533:SER:HB2	1:D:612:ILE:HB	1.81	0.62
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.30	0.62
2:I:583:THR:OG1	2:I:587:GLN:HB2	1.98	0.62
2:J:489:GLU:O	2:J:493:MET:HG3	2.00	0.62
2:K:305:ALA:O	2:K:309:LYS:HD3	2.00	0.62
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.35	0.62
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.34	0.62
2:K:1641:GLY:HA3	2:K:1678:VAL:HA	1.80	0.62
2:L:1610:MET:HA	2:L:1610:MET:CE	2.29	0.62
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.79	0.62
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.14	0.62
1:C:504:GLY:O	1:C:926:SER:HB2	2.00	0.62
1:C:1018:GLY:HA2	1:C:1590:ARG:NH2	2.14	0.62
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.80	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.17	0.62
1:E:1448:ALA:HA	1:E:1451:LYS:HD2	1.80	0.62
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.81	0.62
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.99	0.62
2:G:766:SER:O	2:G:770:LYS:HG3	1.98	0.62
2:G:1299:VAL:HG23	2:G:1301:PHE:HE2	1.64	0.62
2:G:1335:PHE:HE1	2:G:1629:ILE:CD1	2.13	0.62
2:G:1375:HIS:ND1	2:G:1610:MET:HG2	2.15	0.62
2:H:461:PRO:HD2	2:H:464:SER:OG	2.00	0.62
2:H:1593:SER:OG	2:H:1596:PHE:HB2	1.99	0.62
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.82	0.62
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.81	0.62
2:I:1868:GLN:HG2	2:I:1873:ARG:HH22	1.65	0.62
2:J:472:THR:H	2:J:493:MET:HE3	1.64	0.62
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.29	0.62
2:J:1200:ARG:H	2:J:1200:ARG:HD3	1.65	0.62
2:J:1436:ARG:HH22	2:J:1602:LEU:HD21	1.64	0.62
2:J:1641:GLY:HA3	2:J:1678:VAL:HA	1.81	0.62
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.00	0.62
2:K:196:PHE:CD2	2:K:266:LYS:HB3	2.34	0.62
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.80	0.62
1:A:682:VAL:HG11	1:A:695:TYR:HE2	1.65	0.62
1:A:1505:GLY:O	1:A:1509:THR:HG23	1.99	0.62
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.34	0.62
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.30	0.62
1:C:1078:ILE:HB	1:C:1338:GLY:CA	2.29	0.62
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.47	0.62
2:G:915:PHE:CD2	2:G:915:PHE:O	2.53	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1156:ASP:HB3	2:G:1158:ASP:H	1.64	0.62
2:G:1848:ALA:HA	2:G:2034:LYS:HD3	1.82	0.62
2:G:2052:LYS:HD3	2:G:2074:TRP:HE1	1.65	0.62
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.83	0.62
2:H:594:MET:HB3	2:H:808:ASP:O	1.99	0.62
2:H:1641:GLY:HA3	2:H:1678:VAL:HA	1.82	0.62
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	1.80	0.62
2:L:77:ALA:O	2:L:139:ALA:HB1	2.00	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	2.00	0.62
2:L:1780:ILE:HG23	2:L:1869:VAL:HG11	1.81	0.62
1:A:811:ASP:HB3	1:A:814:TYR:HB3	1.81	0.62
1:A:911:LEU:O	1:A:915:MET:HG3	2.00	0.62
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.79	0.62
1:B:1018:GLY:HA2	1:B:1590:ARG:NH2	2.14	0.62
1:B:1269:SER:O	1:D:1386:THR:HB	2.00	0.62
1:E:1364:THR:HG22	1:E:1366:GLN:H	1.64	0.62
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.81	0.62
2:G:1288:PHE:O	2:G:1292:VAL:HG23	2.00	0.62
2:G:1641:GLY:HA3	2:G:1678:VAL:HA	1.81	0.62
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.81	0.62
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.28	0.62
2:H:485:ASP:HB3	2:H:488:PRO:CD	2.29	0.62
2:H:1687:GLN:O	2:H:1828:GLN:NE2	2.32	0.62
2:I:448:HIS:HD2	2:I:491:VAL:CG1	2.13	0.62
2:I:529:ASN:HD22	2:I:552:VAL:HG22	1.64	0.62
2:J:486:ILE:HG22	2:J:490:LEU:HG	1.80	0.62
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.35	0.62
2:J:1123:ALA:HB3	2:J:1126:GLU:HG3	1.82	0.62
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.29	0.62
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.30	0.62
1:A:1078:ILE:HG21	1:A:1352:MET:HE2	1.82	0.62
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.15	0.62
1:B:1499:ARG:CD	1:D:1476:ARG:HH12	2.02	0.62
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.81	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
1:C:535:TYR:CD1	1:C:610:GLU:N	2.67	0.62
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.34	0.62
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.18	0.62
1:E:811:ASP:HB3	1:E:814:TYR:HB3	1.79	0.62
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	1.80	0.62
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.14	0.62

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:865:ILE:HG21	2:I:867:LYS:HE3	1.83	0.61
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.82	0.61
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.30	0.61
2:J:1475:LEU:HD23	2:J:1476:ASP:H	1.65	0.61
2:J:2059:HIS:ND1	2:J:2067:ILE:HG22	2.15	0.61
2:K:818:THR:HA	2:K:829:LYS:HG2	1.81	0.61
2:L:215:TRP:CE3	2:L:216:ASP:N	2.67	0.61
2:L:540:ILE:HD13	2:L:557:GLU:HB3	1.82	0.61
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.82	0.61
1:B:989:ASN:N	1:B:1491:ASN:HD21	1.85	0.61
1:C:22:PHE:O	2:I:2010:LEU:HD12	2.00	0.61
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.81	0.61
1:F:47:ILE:HB	2:L:1694:PHE:HD1	1.65	0.61
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.65	0.61
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.82	0.61
1:F:1078:ILE:HG21	1:F:1352:MET:HE2	1.83	0.61
1:F:1211:LYS:O	1:F:1702:ARG:HD3	1.99	0.61
2:G:48:LEU:HD13	2:G:83:VAL:HG22	1.83	0.61
2:G:594:MET:HB3	2:G:808:ASP:O	2.00	0.61
2:G:626:TYR:N	2:G:656:ARG:HH22	1.99	0.61
2:H:646:SER:HA	2:H:649:GLU:HG2	1.82	0.61
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.15	0.61
2:I:1593:SER:OG	2:I:1596:PHE:HB2	1.99	0.61
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.31	0.61
2:J:1259:LEU:HD23	2:J:1288:PHE:HB2	1.82	0.61
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.65	0.61
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.15	0.61
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.35	0.61
1:A:926:SER:O	1:A:930:GLN:HG2	2.01	0.61
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	1.99	0.61
2:G:459:LYS:HB3	2:G:485:ASP:OD1	2.01	0.61
2:G:674:ILE:HD13	2:G:705:TYR:HE2	1.66	0.61
2:H:1019:LEU:O	2:H:1022:ARG:HG2	2.00	0.61
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.81	0.61
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.30	0.61
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.61
2:J:766:SER:O	2:J:770:LYS:HG3	2.00	0.61
2:K:646:SER:HA	2:K:649:GLU:HG2	1.83	0.61
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.30	0.61
2:L:67:ASP:HA	2:L:132:LYS:HE2	1.81	0.61
2:L:196:PHE:CD2	2:L:266:LYS:HB3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.83	0.61
2:L:1175:MET:HE3	2:L:1192:LEU:HD11	1.82	0.61
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.01	0.61
1:B:619:LYS:HG2	1:B:620:LYS:H	1.66	0.61
1:E:619:LYS:HG2	1:E:620:LYS:H	1.64	0.61
1:E:999:LEU:HD11	1:E:1575:ASN:HB3	1.81	0.61
2:G:1679:LEU:O	2:G:1680:GLN:HG3	2.01	0.61
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.16	0.61
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.15	0.61
2:H:1517:LEU:HB2	2:H:1521:GLU:HB2	1.81	0.61
2:H:1610:MET:HA	2:H:1610:MET:CE	2.30	0.61
2:I:595:SER:HB3	2:I:602:PRO:CG	2.28	0.61
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.66	0.61
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.31	0.61
2:J:1286:LYS:HZ1	2:J:1367:ASP:HA	1.66	0.61
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.35	0.61
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.83	0.61
2:K:1171:TRP:HB3	2:K:1265:TYR:CE1	2.36	0.61
2:L:1985:GLN:HG3	2:L:1986:PRO:CD	2.23	0.61
1:A:397:ARG:NH1	1:A:692:THR:HG21	2.15	0.61
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.54	0.61
1:A:1142:LEU:H	1:A:1142:LEU:HD12	1.66	0.61
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.81	0.61
1:C:383:TYR:O	1:C:387:ILE:HG23	2.00	0.61
1:C:715:ASN:HD22	1:C:717:GLY:H	1.49	0.61
1:D:767:HIS:NE2	1:D:771:LEU:HD23	2.16	0.61
1:D:1078:ILE:HB	1:D:1338:GLY:HA2	1.80	0.61
1:D:1224:SER:HB2	1:D:1307:PHE:O	2.01	0.61
1:E:828:TRP:HE1	1:E:838:THR:HA	1.66	0.61
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.66	0.61
1:F:59:ARG:HD2	2:L:1926:GLN:HE21	1.65	0.61
2:G:1946:LEU:HD22	2:G:1951:ILE:HD13	1.81	0.61
2:H:48:LEU:HD13	2:H:83:VAL:HG22	1.83	0.61
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.65	0.61
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.83	0.61
2:H:791:TYR:HA	2:H:796:TRP:CD1	2.36	0.61
2:I:609:THR:OG1	2:I:610:PRO:HD3	2.00	0.61
2:I:674:ILE:HD13	2:I:705:TYR:HE2	1.65	0.61
2:I:762:LEU:HD22	2:I:802:TYR:CD2	2.31	0.61
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.36	0.61
2:J:2057:GLU:HA	2:J:2060:ARG:NH1	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:719:GLY:O	2:K:755:GLU:HG3	2.01	0.61
2:K:743:TRP:CE2	2:K:761:ILE:HD11	2.36	0.61
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.16	0.61
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.83	0.61
2:L:964:ARG:O	2:L:967:GLU:HB2	2.00	0.61
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.82	0.60
1:B:439:ARG:HA	1:B:705:ARG:HG2	1.83	0.60
1:D:1018:GLY:HA2	1:D:1590:ARG:NH2	2.16	0.60
1:E:422:LEU:HB3	1:E:429:ILE:HD11	1.82	0.60
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.34	0.60
2:G:76:VAL:O	2:G:80:ILE:HG13	2.01	0.60
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.30	0.60
2:H:884:PHE:HE2	2:H:1039:GLU:HA	1.64	0.60
2:I:290:VAL:HG11	2:I:315:LEU:HD13	1.83	0.60
2:I:1346:MET:HB2	2:I:1427:MET:HE3	1.83	0.60
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.16	0.60
2:J:37:VAL:HG12	2:J:38:PRO:O	2.01	0.60
2:J:317:TRP:O	2:J:321:ARG:HG2	2.01	0.60
2:J:352:SER:HB2	2:J:433:LEU:HD21	1.83	0.60
2:J:646:SER:HA	2:J:649:GLU:HG2	1.82	0.60
2:J:663:ILE:H	2:J:663:ILE:HD12	1.64	0.60
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.01	0.60
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.35	0.60
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.83	0.60
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.66	0.60
2:L:613:VAL:HG12	2:L:614:PRO:HD3	1.83	0.60
1:A:715:ASN:HD22	1:A:717:GLY:H	1.48	0.60
1:C:926:SER:O	1:C:930:GLN:HG2	2.01	0.60
1:C:1273:ILE:CD1	1:F:1630:LYS:HD2	2.30	0.60
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.82	0.60
1:E:1078:ILE:HB	1:E:1338:GLY:HA2	1.82	0.60
1:E:1106:LEU:HD23	1:E:1107:GLU:H	1.66	0.60
1:F:1107:GLU:HG3	1:F:1108:PRO:HD2	1.83	0.60
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.00	0.60
1:F:1697:LEU:O	1:F:1699:PRO:HD3	2.00	0.60
2:G:472:THR:H	2:G:493:MET:HE3	1.65	0.60
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.35	0.60
2:G:1008:ILE:HD12	2:G:1013:VAL:HG22	1.83	0.60
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.82	0.60
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.30	0.60
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:352:SER:HB2	2:H:433:LEU:HD21	1.81	0.60
2:H:382:LEU:HG	2:H:390:VAL:HB	1.82	0.60
2:H:610:PRO:CD	3:H:2101:FMN:H6	2.31	0.60
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.83	0.60
2:H:1346:MET:HB2	2:H:1427:MET:HE3	1.84	0.60
2:I:154:TYR:CE1	2:I:561:ARG:NH1	2.68	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:HA	1.84	0.60
2:I:979:LEU:HD21	2:I:999:ALA:HB3	1.83	0.60
2:I:1479:HIS:CD2	2:I:1481:ILE:HG12	2.34	0.60
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.66	0.60
2:K:331:LEU:C	2:L:1627:ASN:HD21	2.04	0.60
2:K:461:PRO:HD2	2:K:464:SER:OG	2.01	0.60
2:K:521:VAL:O	2:K:526:VAL:HG21	2.01	0.60
2:L:1250:ARG:NH1	2:L:1592:VAL:HG12	2.16	0.60
2:L:1259:LEU:HD23	2:L:1288:PHE:HB2	1.83	0.60
1:B:1142:LEU:HD12	1:B:1142:LEU:N	2.15	0.60
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	1.99	0.60
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.01	0.60
1:D:553:ARG:NH2	1:D:567:ASN:HD21	1.99	0.60
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.82	0.60
1:D:905:LEU:HD22	1:D:911:LEU:HD21	1.82	0.60
1:E:553:ARG:NH2	1:E:567:ASN:HD21	1.99	0.60
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.01	0.60
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.27	0.60
2:H:300:THR:H	2:H:303:GLU:HB3	1.67	0.60
2:H:818:THR:HA	2:H:829:LYS:HG2	1.84	0.60
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.83	0.60
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.83	0.60
2:I:709:LEU:HD23	2:I:709:LEU:H	1.66	0.60
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.36	0.60
2:I:964:ARG:O	2:I:967:GLU:HB2	2.01	0.60
2:I:1346:MET:HB2	2:I:1427:MET:CE	2.32	0.60
2:I:1804:GLN:HG2	2:I:1865:LEU:HD23	1.83	0.60
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.65	0.60
2:J:854:VAL:HG21	2:J:1070:PRO:HA	1.82	0.60
2:K:1259:LEU:HD23	2:K:1288:PHE:HB2	1.82	0.60
2:K:1887:ASN:H	2:K:1994:ALA:HB1	1.65	0.60
2:L:250:PHE:HA	2:L:287:GLN:NE2	2.16	0.60
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.83	0.60
2:L:685:VAL:HG23	2:L:1186:ARG:HH12	1.67	0.60
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:ILE:HB	1:A:1338:GLY:HA2	1.82	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.84	0.60
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.63	0.60
1:C:1490:GLY:O	1:C:1509:THR:HB	2.01	0.60
2:G:67:ASP:HA	2:G:132:LYS:HE2	1.84	0.60
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.65	0.60
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.83	0.60
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.02	0.60
2:H:938:MET:HE2	2:H:959:THR:HG22	1.82	0.60
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.01	0.60
2:I:766:SER:O	2:I:770:LYS:HG3	2.01	0.60
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.31	0.60
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.37	0.60
2:K:489:GLU:O	2:K:493:MET:HG3	2.01	0.60
2:K:938:MET:HB3	2:K:959:THR:HG22	1.83	0.60
2:L:37:VAL:HG12	2:L:38:PRO:O	2.01	0.60
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.36	0.60
1:A:1211:LYS:O	1:A:1702:ARG:HD3	2.02	0.60
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.17	0.60
1:D:551:LEU:C	1:D:551:LEU:HD23	2.22	0.60
1:E:2:ARG:HD2	1:E:5:VAL:HG21	1.82	0.60
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.82	0.60
2:G:1802:ALA:HB1	2:G:1804:GLN:NE2	2.14	0.60
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.83	0.60
2:I:541:LEU:HG	2:I:552:VAL:HG11	1.83	0.60
2:I:1610:MET:HA	2:I:1610:MET:CE	2.30	0.60
2:J:468:PRO:CD	2:J:479:ARG:HH21	2.13	0.60
2:J:608:MET:H	2:J:612:THR:CB	2.15	0.60
2:J:1097:PHE:HD2	2:J:1100:ARG:HH12	1.49	0.60
2:J:1217:ILE:HD12	2:J:1234:ILE:HD12	1.83	0.60
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.50	0.60
2:K:472:THR:HG23	2:K:499:VAL:HA	1.83	0.60
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.65	0.60
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.66	0.60
2:L:743:TRP:CE2	2:L:761:ILE:HD11	2.36	0.60
2:L:938:MET:HE2	2:L:959:THR:HG22	1.81	0.60
1:A:682:VAL:HG11	1:A:695:TYR:CE2	2.36	0.60
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.02	0.60
1:B:673:LEU:O	1:B:678:ALA:HB3	2.01	0.60
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.36	0.60
1:C:408:GLN:HE22	1:C:1609:SER:H	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.82	0.60
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.02	0.60
1:E:427:ARG:NH1	1:E:492:ILE:HG12	2.17	0.60
1:E:1106:LEU:HD13	1:E:1142:LEU:HD13	1.84	0.60
2:G:448:HIS:HD2	2:G:491:VAL:CG1	2.15	0.60
2:H:583:THR:OG1	2:H:587:GLN:HB2	2.01	0.60
2:I:814:SER:HB2	3:I:2101:FMN:O3P	2.00	0.60
2:J:626:TYR:N	2:J:656:ARG:HH22	1.98	0.60
2:J:1499:LYS:HD3	2:J:1534:GLU:OE1	2.02	0.60
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.31	0.60
2:L:290:VAL:HG11	2:L:315:LEU:HD13	1.83	0.60
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.36	0.60
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.60
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.31	0.60
1:B:1401:LEU:O	1:B:1401:LEU:HD22	2.01	0.60
1:C:1310:PHE:CE1	1:C:1315:SER:HB2	2.37	0.60
2:G:1468:ARG:CG	2:G:1468:ARG:NH1	2.51	0.60
2:G:1694:PHE:HD2	2:G:1843:ALA:HB2	1.66	0.60
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.60
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.84	0.60
2:H:1286:LYS:HZ1	2:H:1367:ASP:HA	1.66	0.60
2:H:2032:PRO:C	2:H:2036:ILE:HG13	2.22	0.60
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.17	0.60
2:I:1867:MET:O	2:I:2003:VAL:HG21	2.02	0.60
2:J:938:MET:HB3	2:J:959:THR:HG22	1.84	0.60
2:J:979:LEU:HD21	2:J:999:ALA:HB3	1.83	0.60
2:J:1610:MET:HA	2:J:1610:MET:CE	2.29	0.60
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.84	0.60
2:K:1061:VAL:HG12	2:K:1066:ILE:HD11	1.82	0.60
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.82	0.60
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.17	0.60
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.65	0.60
1:C:433:CYS:O	1:C:437:MET:HG3	2.02	0.60
1:C:777:LEU:O	1:C:781:ILE:HG13	2.02	0.60
1:E:533:SER:HB2	1:E:612:ILE:HB	1.84	0.60
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.36	0.60
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.66	0.60
1:F:12:THR:O	1:F:16:GLU:HG2	2.02	0.60
1:F:1078:ILE:HB	1:F:1338:GLY:HA2	1.83	0.60
2:G:317:TRP:O	2:G:321:ARG:HG2	2.01	0.60
2:G:352:SER:HB2	2:G:433:LEU:HD21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:709:LEU:HD23	2:G:709:LEU:H	1.66	0.60
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.82	0.60
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.32	0.60
2:H:1866:THR:HA	2:H:1869:VAL:HG22	1.84	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.17	0.60
2:I:382:LEU:HG	2:I:390:VAL:HB	1.83	0.60
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.02	0.60
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.83	0.60
2:K:661:ASN:HD21	3:K:2101:FMN:HN3	1.49	0.60
2:K:791:TYR:HA	2:K:796:TRP:CD1	2.37	0.60
2:K:856:THR:HG23	2:K:866:HIS:CD2	2.37	0.60
2:K:1517:LEU:HB2	2:K:1521:GLU:HB2	1.84	0.60
2:L:317:TRP:O	2:L:321:ARG:HG2	2.02	0.60
2:L:911:GLN:NE2	2:L:1065:CYS:H	1.99	0.60
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.37	0.60
1:A:29:ILE:HD11	2:G:1922:VAL:C	2.23	0.60
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.83	0.60
1:A:1448:ALA:HA	1:A:1451:LYS:HD2	1.82	0.60
1:C:965:TYR:OH	1:C:1199:LEU:HD22	2.02	0.60
1:D:430:VAL:O	1:D:434:ILE:HG13	2.01	0.60
1:E:12:THR:O	1:E:16:GLU:HG2	2.02	0.60
1:E:701:ARG:NH1	1:E:1610:ARG:NH2	2.50	0.60
2:G:485:ASP:HB3	2:G:488:PRO:CD	2.31	0.60
2:H:196:PHE:CD2	2:H:266:LYS:HB3	2.37	0.60
2:H:493:MET:HA	2:H:497:ASP:HB2	1.83	0.60
2:H:1499:LYS:HD3	2:H:1534:GLU:OE1	2.01	0.60
2:H:1521:GLU:OE2	2:H:2028:THR:HG22	2.02	0.60
2:H:1938:THR:O	2:H:1942:VAL:HG23	2.02	0.60
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.16	0.60
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.02	0.60
2:I:1848:ALA:HA	2:I:2034:LYS:HD3	1.83	0.60
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.67	0.60
2:J:1289:TYR:HB2	2:J:1370:LEU:HD23	1.83	0.60
2:K:1475:LEU:HD23	2:K:1476:ASP:H	1.65	0.60
2:K:1499:LYS:HD3	2:K:1534:GLU:OE1	2.01	0.60
2:K:2057:GLU:HA	2:K:2060:ARG:NH1	2.17	0.60
2:L:448:HIS:HD2	2:L:491:VAL:CG1	2.15	0.60
2:L:779:GLY:O	2:L:780:SER:CB	2.50	0.60
1:B:767:HIS:NE2	1:B:771:LEU:HD23	2.16	0.60
1:B:1078:ILE:HD13	1:B:1352:MET:HG2	1.84	0.60
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1108:PRO:HG3	1:B:1141:ARG:NE	2.16	0.60
1:C:430:VAL:O	1:C:434:ILE:HG13	2.02	0.60
1:C:439:ARG:HA	1:C:705:ARG:HG2	1.84	0.60
1:C:619:LYS:HG2	1:C:620:LYS:H	1.67	0.60
1:D:427:ARG:HH12	1:D:492:ILE:CG1	2.12	0.60
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.32	0.60
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.84	0.60
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.83	0.60
2:G:290:VAL:HG11	2:G:315:LEU:HD13	1.83	0.60
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.37	0.60
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.01	0.60
2:H:117:ASN:OD1	2:H:561:ARG:HG3	2.02	0.60
2:I:485:ASP:HB3	2:I:488:PRO:CD	2.30	0.60
2:J:240:THR:O	2:J:244:VAL:HG23	2.02	0.60
2:J:705:TYR:HA	2:J:709:LEU:HD21	1.83	0.60
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.17	0.60
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.02	0.60
2:L:549:ASN:HD22	2:L:550:THR:N	2.00	0.60
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.83	0.60
2:L:1679:LEU:O	2:L:1680:GLN:HG3	2.02	0.60
1:E:560:LYS:O	1:E:564:LEU:HB2	2.02	0.59
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.52	0.59
1:F:1432:ILE:HD11	1:F:1481:GLN:HB3	1.84	0.59
2:G:726:GLN:O	2:G:730:ILE:HG12	2.01	0.59
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.17	0.59
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.02	0.59
2:H:1475:LEU:HD23	2:H:1476:ASP:H	1.66	0.59
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.59
2:J:300:THR:H	2:J:303:GLU:HB3	1.66	0.59
2:J:930:THR:CG2	2:J:933:GLU:H	2.15	0.59
2:K:240:THR:O	2:K:244:VAL:HG23	2.02	0.59
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.84	0.59
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.02	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.15	0.59
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.82	0.59
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.37	0.59
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.59
1:D:673:LEU:O	1:D:678:ALA:HB3	2.01	0.59
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.85	0.59
1:D:1364:THR:HG22	1:D:1366:GLN:H	1.66	0.59
1:E:383:TYR:O	1:E:387:ILE:HG23	2.02	0.59

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.84	0.59
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.67	0.59
1:E:532:ILE:HD11	1:E:866:LEU:O	2.01	0.59
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.59
1:F:22:PHE:HE2	2:L:2017:PHE:CG	2.21	0.59
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.85	0.59
2:G:1286:LYS:HZ1	2:G:1367:ASP:HA	1.67	0.59
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.02	0.59
2:H:612:THR:HG22	2:H:612:THR:O	2.02	0.59
2:H:766:SER:O	2:H:770:LYS:HG3	2.01	0.59
2:H:1519:THR:O	2:H:1520:LYS:HB2	1.99	0.59
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.55	0.59
2:I:876:TRP:CD1	2:I:876:TRP:C	2.76	0.59
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.31	0.59
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.03	0.59
2:I:2057:GLU:HA	2:I:2060:ARG:NH1	2.17	0.59
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.85	0.59
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.83	0.59
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.82	0.59
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.02	0.59
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.84	0.59
2:L:752:HIS:CE1	2:L:847:TYR:HE2	2.19	0.59
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.16	0.59
1:B:926:SER:O	1:B:930:GLN:HG2	2.02	0.59
1:C:47:ILE:HB	2:I:1694:PHE:CD1	2.38	0.59
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.03	0.59
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.14	0.59
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.83	0.59
1:F:18:LEU:HD21	2:L:1844:LEU:HD11	1.84	0.59
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.83	0.59
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.59
2:I:154:TYR:CZ	2:I:561:ARG:NH1	2.71	0.59
2:I:646:SER:HA	2:I:649:GLU:HG2	1.84	0.59
2:I:779:GLY:O	2:I:780:SER:CB	2.49	0.59
2:I:1335:PHE:CE1	2:I:1629:ILE:CD1	2.85	0.59
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.10	0.59
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.65	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
2:K:626:TYR:N	2:K:656:ARG:HH22	2.01	0.59
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.83	0.59
2:L:979:LEU:HD21	2:L:999:ALA:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.03	0.59
1:A:612:ILE:HD11	1:F:579:MET:HB3	1.84	0.59
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.17	0.59
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	1.84	0.59
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.31	0.59
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.84	0.59
1:F:1602:PHE:N	1:F:1602:PHE:CD2	2.70	0.59
2:G:196:PHE:CD2	2:G:266:LYS:HB3	2.38	0.59
2:G:331:LEU:HD22	2:G:396:ILE:HG13	1.84	0.59
2:G:1290:TYR:CD1	2:G:1299:VAL:HG12	2.37	0.59
2:H:934:VAL:O	2:H:938:MET:HG3	2.02	0.59
2:I:856:THR:HA	2:I:865:ILE:O	2.02	0.59
2:I:1259:LEU:HD23	2:I:1288:PHE:HB2	1.83	0.59
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.03	0.59
2:K:300:THR:H	2:K:303:GLU:HB3	1.68	0.59
2:K:762:LEU:HD22	2:K:802:TYR:CD2	2.31	0.59
2:K:903:ILE:HD11	2:K:914:TRP:CE2	2.38	0.59
2:L:489:GLU:O	2:L:493:MET:HG3	2.02	0.59
2:L:626:TYR:N	2:L:656:ARG:HH22	2.01	0.59
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.37	0.59
2:L:876:TRP:CD1	2:L:876:TRP:C	2.76	0.59
2:L:938:MET:HB3	2:L:959:THR:HG22	1.84	0.59
2:L:1745:LEU:HB3	2:L:1799:LEU:HD22	1.84	0.59
1:A:999:LEU:HD11	1:A:1575:ASN:HB3	1.85	0.59
1:B:383:TYR:O	1:B:387:ILE:HG23	2.03	0.59
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.85	0.59
1:C:1493:PHE:CE2	1:C:1509:THR:HG22	2.37	0.59
1:E:1336:GLU:O	1:E:1340:MET:HG2	2.01	0.59
1:F:811:ASP:HB3	1:F:814:TYR:HB3	1.84	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.84	0.59
2:H:77:ALA:O	2:H:139:ALA:HB1	2.02	0.59
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.33	0.59
2:H:942:MET:CE	2:H:955:LEU:HB3	2.33	0.59
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.38	0.59
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.32	0.59
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.03	0.59
2:K:583:THR:OG1	2:K:587:GLN:HB2	2.03	0.59
2:K:926:LEU:O	2:K:1008:ILE:HD11	2.03	0.59
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.32	0.59
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.37	0.59
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.85	0.59

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.38	0.59
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.85	0.59
2:K:1610:MET:HA	2:K:1610:MET:CE	2.33	0.59
2:L:215:TRP:O	2:L:218:VAL:HG22	2.03	0.59
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	1.85	0.59
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.03	0.59
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.84	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.33	0.59
1:B:445:LEU:HD11	1:B:481:LEU:HD11	1.85	0.59
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.03	0.59
1:B:1273:ILE:CD1	1:D:1630:LYS:HD2	2.33	0.59
1:B:1364:THR:HG22	1:B:1366:GLN:H	1.67	0.59
1:C:1047:TYR:CZ	1:C:1058:PRO:HB3	2.38	0.59
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.84	0.59
1:D:22:PHE:O	2:J:2006:HIS:HA	2.03	0.59
1:E:1490:GLY:O	1:E:1509:THR:HB	2.03	0.59
1:F:999:LEU:HD21	1:F:1575:ASN:CG	2.24	0.59
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.23	0.59
2:G:1475:LEU:HD23	2:G:1476:ASP:H	1.68	0.59
2:H:317:TRP:O	2:H:321:ARG:HG2	2.03	0.59
2:H:1067:LEU:HD12	2:H:1067:LEU:N	2.18	0.59
2:I:300:THR:H	2:I:303:GLU:HB3	1.67	0.59
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.83	0.59
2:K:1475:LEU:HD11	2:K:1483:LEU:HD11	1.85	0.59
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.03	0.59
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.37	0.59
2:L:791:TYR:HA	2:L:796:TRP:CD1	2.37	0.59
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.84	0.58
1:A:1108:PRO:HG3	1:A:1141:ARG:NE	2.18	0.58
1:B:1493:PHE:CE2	1:B:1509:THR:HG22	2.38	0.58
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.36	0.58
1:D:1020:PHE:CE2	1:D:1028:MET:HG3	2.38	0.58
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.68	0.58
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.03	0.58
1:F:433:CYS:O	1:F:437:MET:HG3	2.03	0.58
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.85	0.58
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.85	0.58
1:F:1106:LEU:HD23	1:F:1107:GLU:H	1.68	0.58
2:G:126:VAL:HG12	2:G:127:ALA:H	1.68	0.58
2:G:779:GLY:O	2:G:780:SER:CB	2.51	0.58
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.17	0.58
2:H:856:THR:HA	2:H:865:ILE:O	2.03	0.58
2:I:31:LEU:HD13	2:I:75:LEU:HD21	1.85	0.58
2:I:459:LYS:HB3	2:I:485:ASP:OD1	2.03	0.58
2:I:1239:ASP:OD1	2:I:1240:ASN:N	2.31	0.58
2:J:1866:THR:HA	2:J:1869:VAL:HG22	1.84	0.58
2:K:215:TRP:CE3	2:K:216:ASP:N	2.68	0.58
2:K:540:ILE:HD13	2:K:557:GLU:HB3	1.85	0.58
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.02	0.58
2:K:827:GLN:NE2	2:K:827:GLN:H	2.00	0.58
2:K:1679:LEU:O	2:K:1680:GLN:HG3	2.03	0.58
2:L:251:PRO:CG	2:L:316:PHE:HA	2.33	0.58
2:L:352:SER:HB2	2:L:433:LEU:HD21	1.84	0.58
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.33	0.58
2:L:1466:VAL:O	2:L:1470:LYS:HG2	2.03	0.58
2:L:1976:CYS:O	2:L:1980:THR:HG23	2.04	0.58
1:A:551:LEU:C	1:A:551:LEU:HD23	2.24	0.58
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.21	0.58
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.85	0.58
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.04	0.58
1:D:43:ARG:NH1	2:J:1687:GLN:NE2	2.50	0.58
1:D:970:LEU:HD21	1:D:1658:VAL:HG11	1.84	0.58
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.38	0.58
2:G:581:VAL:HG11	2:G:1113:ILE:HD11	1.85	0.58
2:G:1305:LEU:H	2:G:1305:LEU:HD12	1.68	0.58
2:G:1517:LEU:HB2	2:G:1521:GLU:HB2	1.85	0.58
2:H:541:LEU:HG	2:H:552:VAL:HG11	1.85	0.58
2:I:298:ALA:CB	2:I:304:PHE:HA	2.32	0.58
2:I:1289:TYR:HB2	2:I:1370:LEU:HD23	1.85	0.58
2:I:1499:LYS:HD3	2:I:1534:GLU:OE1	2.03	0.58
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.02	0.58
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.58
2:J:818:THR:HA	2:J:829:LYS:HG2	1.85	0.58
2:J:1938:THR:O	2:J:1942:VAL:HG23	2.02	0.58
2:K:876:TRP:CD1	2:K:876:TRP:C	2.75	0.58
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	1.84	0.58
2:L:472:THR:HG23	2:L:499:VAL:HA	1.85	0.58
2:L:1475:LEU:HD23	2:L:1476:ASP:H	1.67	0.58
1:A:619:LYS:HG2	1:A:620:LYS:H	1.69	0.58
1:A:1336:GLU:O	1:A:1340:MET:HG2	2.02	0.58
1:B:430:VAL:O	1:B:434:ILE:HG13	2.04	0.58

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:726:GLN:O	2:H:730:ILE:HG12	2.03	0.58
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.43	0.58
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.38	0.58
2:J:1804:GLN:HG2	2:J:1865:LEU:HD23	1.85	0.58
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.58
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	1.84	0.58
2:K:1866:THR:HA	2:K:1869:VAL:HG22	1.85	0.58
2:L:240:THR:O	2:L:244:VAL:HG23	2.04	0.58
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.09	0.58
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.18	0.58
1:A:70:ALA:O	2:I:403:LEU:HD12	2.04	0.58
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.84	0.58
1:A:1587:PRO:HA	1:A:1611:SER:OG	2.04	0.58
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.85	0.58
1:C:1432:ILE:HD11	1:C:1481:GLN:HB3	1.84	0.58
1:C:1495:ARG:NH1	1:F:992:LYS:HE2	2.17	0.58
1:D:983:GLN:HB3	1:D:1418:ILE:HD13	1.85	0.58
1:D:1142:LEU:H	1:D:1142:LEU:HD12	1.67	0.58
2:G:215:TRP:O	2:G:218:VAL:HG22	2.04	0.58
2:G:1499:LYS:HD3	2:G:1534:GLU:OE1	2.03	0.58
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.67	0.58
2:H:626:TYR:N	2:H:656:ARG:HH22	2.01	0.58
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.38	0.58
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.84	0.58
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.19	0.58
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.84	0.58
2:K:609:THR:O	2:K:613:VAL:HB	2.03	0.58
2:L:723:ALA:O	2:L:726:GLN:HB2	2.04	0.58
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.03	0.58
1:B:335:LEU:C	1:B:335:LEU:HD12	2.24	0.58
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.24	0.58
1:C:970:LEU:HD21	1:C:1658:VAL:HG11	1.85	0.58
1:C:999:LEU:HD11	1:C:1575:ASN:HB3	1.86	0.58
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.85	0.58
1:E:1493:PHE:HE2	1:E:1509:THR:HG22	1.65	0.58
1:F:1310:PHE:CE1	1:F:1315:SER:HB2	2.38	0.58
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.33	0.58
2:G:1521:GLU:OE2	2:G:2028:THR:CG2	2.51	0.58
2:G:1896:THR:HG22	2:G:1897:GLU:N	2.17	0.58
2:H:384:ASN:HB3	2:H:527:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.18	0.58
2:H:1896:THR:HG22	2:H:1897:GLU:N	2.17	0.58
2:I:215:TRP:O	2:I:218:VAL:HG22	2.03	0.58
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.67	0.58
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.85	0.58
2:I:1694:PHE:HD2	2:I:1843:ALA:HB2	1.69	0.58
2:I:1802:ALA:HB1	2:I:1804:GLN:NE2	2.15	0.58
2:J:600:VAL:HG22	2:J:601:PRO:HD2	1.84	0.58
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.67	0.58
2:J:1008:ILE:HD12	2:J:1013:VAL:HG22	1.85	0.58
2:K:331:LEU:HD22	2:K:396:ILE:HG13	1.85	0.58
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.33	0.58
2:K:472:THR:H	2:K:493:MET:HE3	1.69	0.58
2:K:595:SER:CB	2:K:602:PRO:HG3	2.26	0.58
2:K:663:ILE:H	2:K:663:ILE:HD12	1.69	0.58
2:L:459:LYS:HB3	2:L:485:ASP:OD1	2.04	0.58
2:L:661:ASN:HD21	3:L:2101:FMN:HN3	1.50	0.58
2:L:1478:GLN:HG2	2:L:1523:ILE:HG21	1.85	0.58
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.03	0.58
1:B:1078:ILE:HB	1:B:1338:GLY:HA2	1.84	0.58
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.68	0.58
1:D:356:LYS:NZ	1:F:1143:ARG:HH21	2.02	0.58
1:D:445:LEU:HD11	1:D:481:LEU:HD11	1.86	0.58
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.58
1:D:613:PRO:O	1:D:614:PHE:HB2	2.04	0.58
1:D:1647:ASP:HB2	1:D:1649:ALA:HB3	1.85	0.58
1:E:959:PRO:HB3	2:K:972:SER:HA	1.85	0.58
1:F:715:ASN:HD22	1:F:717:GLY:H	1.52	0.58
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.68	0.58
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.85	0.58
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.85	0.58
2:G:493:MET:HA	2:G:497:ASP:HB2	1.85	0.58
2:G:884:PHE:HE2	2:G:1039:GLU:HA	1.69	0.58
2:H:876:TRP:CD1	2:H:876:TRP:C	2.76	0.58
2:I:663:ILE:H	2:I:663:ILE:CD1	2.17	0.58
2:I:705:TYR:HA	2:I:709:LEU:HD21	1.85	0.58
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.58	0.58
2:I:2052:LYS:HB3	2:I:2074:TRP:CD2	2.39	0.58
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.03	0.58
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.33	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:581:VAL:HG11	2:K:1113:ILE:HD11	1.86	0.58
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.86	0.58
2:K:1179:GLU:HA	2:K:1190:ASN:CB	2.33	0.58
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.04	0.58
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.04	0.58
2:L:298:ALA:CB	2:L:304:PHE:HA	2.33	0.58
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.03	0.58
2:L:1881:TYR:CB	2:L:2004:PRO:HG3	2.34	0.58
1:A:342:ILE:HD11	1:D:342:ILE:HD11	1.86	0.58
1:B:827:ARG:NH1	1:B:831:GLU:OE2	2.37	0.58
1:B:999:LEU:HD21	1:B:1575:ASN:CG	2.24	0.58
1:B:999:LEU:HD11	1:B:1575:ASN:HB3	1.85	0.58
1:C:1078:ILE:HB	1:C:1338:GLY:HA2	1.83	0.58
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.85	0.58
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.69	0.58
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.09	0.58
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.32	0.58
2:G:1938:THR:O	2:G:1942:VAL:HG23	2.03	0.58
2:H:1259:LEU:HD23	2:H:1288:PHE:HB2	1.86	0.58
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.84	0.58
2:I:81:ALA:HB2	2:I:139:ALA:HA	1.85	0.58
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.85	0.58
2:I:626:TYR:N	2:I:656:ARG:HH22	2.01	0.58
2:I:916:GLY:C	2:I:929:MET:HE2	2.24	0.58
2:I:1466:VAL:O	2:I:1470:LYS:HG2	2.04	0.58
2:I:1679:LEU:O	2:I:1680:GLN:HG3	2.04	0.58
2:I:1767:GLU:HB2	2:I:2016:PRO:CG	2.20	0.58
2:J:196:PHE:CD2	2:J:266:LYS:HB3	2.39	0.58
2:K:37:VAL:HG12	2:K:38:PRO:O	2.03	0.58
2:K:251:PRO:CG	2:K:316:PHE:HA	2.32	0.58
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.32	0.58
2:K:709:LEU:HD23	2:K:709:LEU:H	1.68	0.58
2:K:942:MET:CE	2:K:955:LEU:HB3	2.33	0.58
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.85	0.58
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.17	0.58
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.03	0.58
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.38	0.58
1:B:623:PHE:N	1:B:623:PHE:CD2	2.72	0.58
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.04	0.58
1:D:524:LYS:HB3	1:D:528:GLU:OE2	2.03	0.58
1:D:1108:PRO:HG3	1:D:1141:ARG:NE	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.85	0.58
2:G:876:TRP:C	2:G:876:TRP:CD1	2.77	0.58
2:G:1887:ASN:H	2:G:1994:ALA:HB1	1.68	0.58
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.38	0.58
2:H:600:VAL:HG22	2:H:601:PRO:HD2	1.85	0.58
2:H:663:ILE:H	2:H:663:ILE:HD12	1.69	0.58
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.87	0.58
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.04	0.58
2:I:37:VAL:HG12	2:I:38:PRO:O	2.03	0.58
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.64	0.58
2:I:540:ILE:HD13	2:I:557:GLU:HB3	1.85	0.58
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.90	0.58
2:J:305:ALA:O	2:J:309:LYS:HD3	2.04	0.58
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.58
2:K:931:TYR:O	2:K:935:VAL:HG12	2.03	0.58
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.85	0.58
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.04	0.58
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.85	0.58
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.85	0.58
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.03	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.84	0.58
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.85	0.58
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.19	0.58
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.85	0.58
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.86	0.58
1:E:1107:GLU:HG3	1:E:1108:PRO:HD2	1.86	0.58
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.39	0.58
1:E:1602:PHE:CD2	1:E:1602:PHE:N	2.72	0.58
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.85	0.58
1:F:1574:LEU:HD12	1:F:1622:VAL:HG11	1.84	0.58
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.38	0.58
2:G:489:GLU:O	2:G:493:MET:HG3	2.03	0.58
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.86	0.58
2:G:1375:HIS:CE1	2:G:1610:MET:SD	2.94	0.58
2:G:1960:MET:HB3	2:G:1964:ASP:CB	2.34	0.58
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.08	0.58
2:H:930:THR:HG22	2:H:933:GLU:CG	2.33	0.58
2:I:352:SER:HB2	2:I:433:LEU:HD21	1.86	0.58
2:I:779:GLY:HA3	2:I:811:MET:CE	2.33	0.58
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.33	0.58
2:J:794:GLY:O	2:J:804:PRO:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.02	0.58
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.16	0.58
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.69	0.58
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.18	0.58
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.04	0.57
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.39	0.57
1:C:827:ARG:NH1	1:C:831:GLU:OE2	2.36	0.57
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.68	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.86	0.57
2:G:60:THR:HG22	2:G:62:GLU:H	1.70	0.57
2:G:515:ASP:HB3	2:G:541:LEU:HD23	1.85	0.57
2:G:856:THR:HA	2:G:865:ILE:O	2.04	0.57
2:G:1259:LEU:HD23	2:G:1288:PHE:HB2	1.86	0.57
2:G:1289:TYR:HB2	2:G:1370:LEU:HD23	1.86	0.57
2:G:1442:TYR:HA	2:G:1445:THR:HG22	1.86	0.57
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.18	0.57
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.39	0.57
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.39	0.57
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.39	0.57
2:J:459:LYS:HB3	2:J:485:ASP:OD1	2.03	0.57
2:J:1171:TRP:HB3	2:J:1265:TYR:CE1	2.39	0.57
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.04	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.04	0.57
2:K:2032:PRO:C	2:K:2036:ILE:HG13	2.24	0.57
1:A:339:GLN:O	1:A:343:ILE:HG13	2.04	0.57
1:A:560:LYS:O	1:A:564:LEU:HB2	2.03	0.57
1:B:1218:VAL:HG13	1:B:1301:VAL:CG1	2.34	0.57
1:B:1310:PHE:CE1	1:B:1315:SER:HB2	2.39	0.57
1:B:1602:PHE:CD2	1:B:1602:PHE:N	2.71	0.57
1:D:383:TYR:O	1:D:387:ILE:HG23	2.04	0.57
1:D:397:ARG:NH1	1:D:692:THR:HG21	2.18	0.57
1:F:60:THR:HG23	2:L:1922:VAL:HG13	1.85	0.57
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.85	0.57
2:H:134:ILE:HG12	2:H:545:ILE:CD1	2.34	0.57
2:H:290:VAL:HG11	2:H:315:LEU:HD13	1.85	0.57
2:H:298:ALA:CB	2:H:304:PHE:HA	2.34	0.57
2:H:1887:ASN:H	2:H:1994:ALA:HB1	1.69	0.57
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.84	0.57
2:K:215:TRP:O	2:K:218:VAL:HG22	2.04	0.57
2:K:298:ALA:CB	2:K:304:PHE:HA	2.33	0.57
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.68	0.57
2:L:48:LEU:HD13	2:L:83:VAL:HG22	1.84	0.57
2:L:930:THR:HG22	2:L:933:GLU:CG	2.34	0.57
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.69	0.57
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.37	0.57
1:B:617:LEU:HD11	1:B:636:TYR:HB2	1.86	0.57
1:E:926:SER:O	1:E:930:GLN:HG2	2.04	0.57
2:G:775:VAL:O	2:G:777:VAL:HG23	2.04	0.57
2:H:609:THR:O	2:H:613:VAL:HB	2.04	0.57
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.85	0.57
2:I:240:THR:O	2:I:244:VAL:HG23	2.04	0.57
2:I:384:ASN:O	2:I:527:LEU:HD21	2.03	0.57
2:I:609:THR:O	2:I:613:VAL:HB	2.04	0.57
2:I:1478:GLN:HG2	2:I:1523:ILE:HG21	1.86	0.57
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.34	0.57
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.84	0.57
2:J:1478:GLN:HG2	2:J:1523:ILE:HG21	1.86	0.57
2:K:290:VAL:HG11	2:K:315:LEU:HD13	1.86	0.57
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.38	0.57
2:L:1239:ASP:OD1	2:L:1240:ASN:N	2.35	0.57
1:A:828:TRP:HE1	1:A:838:THR:HA	1.68	0.57
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	1.85	0.57
1:C:340:LEU:HD21	1:D:340:LEU:HD21	1.86	0.57
1:D:1106:LEU:HD23	1:D:1107:GLU:H	1.68	0.57
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.04	0.57
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.86	0.57
2:G:37:VAL:HG12	2:G:38:PRO:O	2.03	0.57
2:G:305:ALA:O	2:G:309:LYS:HD3	2.03	0.57
2:G:930:THR:HG22	2:G:933:GLU:CG	2.34	0.57
2:G:1315:ILE:H	2:G:1315:ILE:HD12	1.69	0.57
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.85	0.57
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.87	0.57
2:H:448:HIS:HD2	2:H:491:VAL:HG12	1.68	0.57
2:H:549:ASN:HD22	2:H:550:THR:N	2.01	0.57
2:H:743:TRP:CE2	2:H:761:ILE:HD11	2.38	0.57
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.66	0.57
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.87	0.57
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.66	0.57
2:H:1976:CYS:O	2:H:1980:THR:HG23	2.04	0.57
2:I:515:ASP:HB3	2:I:541:LEU:HD23	1.86	0.57
2:I:621:THR:HG21	2:I:628:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.02	0.57
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.70	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.35	0.57
2:J:1346:MET:HB2	2:J:1427:MET:CE	2.33	0.57
2:K:765:TYR:CB	2:K:805:MET:HE3	2.34	0.57
2:K:884:PHE:HE2	2:K:1039:GLU:HA	1.69	0.57
2:K:1466:VAL:O	2:K:1470:LYS:HG2	2.04	0.57
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.19	0.57
2:K:1706:MET:O	2:K:1709:TYR:HB3	2.03	0.57
2:K:1896:THR:HG22	2:K:1897:GLU:N	2.19	0.57
2:K:2052:LYS:HB3	2:K:2074:TRP:CD2	2.40	0.57
2:L:305:ALA:O	2:L:309:LYS:HD3	2.05	0.57
2:L:709:LEU:HD23	2:L:709:LEU:H	1.69	0.57
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.38	0.57
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.86	0.57
1:B:22:PHE:O	2:H:2006:HIS:HA	2.04	0.57
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.57
1:C:23:ALA:HA	2:I:2007:SER:O	2.05	0.57
1:C:47:ILE:HB	2:I:1694:PHE:HD1	1.70	0.57
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.86	0.57
1:E:445:LEU:HD11	1:E:481:LEU:HD11	1.86	0.57
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.87	0.57
2:G:240:THR:O	2:G:244:VAL:HG23	2.04	0.57
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.35	0.57
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.39	0.57
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.86	0.57
2:H:1679:LEU:O	2:H:1680:GLN:HG3	2.03	0.57
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.37	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.87	0.57
2:J:1881:TYR:CG	2:J:2004:PRO:HG3	2.39	0.57
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.68	0.57
2:L:916:GLY:C	2:L:929:MET:HE1	2.25	0.57
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.34	0.57
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.19	0.57
2:L:2032:PRO:C	2:L:2036:ILE:HG13	2.24	0.57
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.04	0.57
1:B:12:THR:O	1:B:16:GLU:HG2	2.04	0.57
1:B:17:LEU:HD22	2:H:2041:PRO:HB3	1.87	0.57
1:B:1573:MET:HE2	1:B:1622:VAL:HG23	1.86	0.57
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.85	0.57
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.35	0.57

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:726:GLN:O	2:K:730:ILE:HG12	2.04	0.57
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.04	0.57
2:L:747:ARG:NH1	2:L:780:SER:O	2.37	0.57
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.40	0.57
1:B:1106:LEU:HD23	1:B:1107:GLU:N	2.20	0.57
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.87	0.57
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.86	0.57
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.87	0.57
1:E:689:ARG:NH2	1:E:1591:ASN:ND2	2.50	0.57
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.40	0.57
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.67	0.57
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.70	0.57
2:G:1478:GLN:HG2	2:G:1523:ILE:HG21	1.87	0.57
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.67	0.57
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.02	0.57
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.69	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.05	0.57
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.19	0.57
2:J:215:TRP:O	2:J:218:VAL:HG22	2.04	0.57
2:J:448:HIS:HD2	2:J:491:VAL:CG1	2.16	0.57
2:J:740:ILE:H	2:J:740:ILE:HD12	1.70	0.57
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.38	0.57
2:K:1194:ARG:HD2	2:K:1598:SER:O	2.04	0.57
1:A:999:LEU:HD21	1:A:1575:ASN:CG	2.24	0.57
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	1.87	0.57
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.56	0.57
1:C:457:THR:HG22	1:C:464:GLN:HA	1.87	0.57
1:D:70:ALA:HB2	2:L:407:LYS:HZ2	1.68	0.57
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.04	0.57
1:D:1425:LEU:CD2	1:D:1429:ARG:HH21	2.14	0.57
1:D:1523:HIS:HB2	1:D:1624:SER:HA	1.85	0.57
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.39	0.57
1:F:628:TYR:CE1	1:F:630:LYS:HG2	2.40	0.57
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.86	0.57
2:G:845:ASN:HD21	2:G:849:ARG:HH11	1.52	0.57
2:G:1130:ILE:HG21	2:G:1155:PRO:HB3	1.87	0.57
2:H:794:GLY:O	2:H:804:PRO:HA	2.04	0.57
2:H:1694:PHE:HD2	2:H:1843:ALA:HB2	1.69	0.57
2:H:1867:MET:O	2:H:2003:VAL:HG21	2.05	0.57
2:I:676:LEU:HD23	2:I:679:ARG:HH21	1.70	0.57
2:J:117:ASN:OD1	2:J:561:ARG:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:765:TYR:CB	2:J:805:MET:HE3	2.34	0.57
2:J:856:THR:HG23	2:J:866:HIS:CD2	2.40	0.57
2:J:962:PHE:O	2:J:966:VAL:HG23	2.05	0.57
2:J:1175:MET:HE3	2:J:1192:LEU:HD11	1.86	0.57
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.35	0.57
2:K:68:GLU:HB3	2:K:69:PRO:CD	2.34	0.57
2:L:856:THR:HA	2:L:865:ILE:O	2.05	0.57
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.87	0.57
2:L:1962:LEU:O	2:L:1966:ARG:HB3	2.05	0.57
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.87	0.57
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.85	0.57
1:B:35:ILE:HD13	2:H:1691:ALA:HB1	1.87	0.57
1:C:88:ILE:HG21	2:I:1821:MET:HE1	1.87	0.57
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.66	0.57
1:C:1269:SER:O	1:F:1386:THR:HB	2.05	0.57
1:D:408:GLN:HE22	1:D:1609:SER:H	1.51	0.57
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.16	0.57
1:D:1573:MET:HE2	1:D:1622:VAL:HG23	1.86	0.57
1:F:383:TYR:O	1:F:387:ILE:HG23	2.04	0.57
1:F:430:VAL:O	1:F:434:ILE:HG13	2.04	0.57
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.34	0.57
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.22	0.57
2:G:440:HIS:HD2	2:G:497:ASP:O	1.87	0.57
2:H:486:ILE:O	2:H:490:LEU:HG	2.04	0.57
2:H:540:ILE:HD13	2:H:557:GLU:HB3	1.87	0.57
2:J:540:ILE:HD13	2:J:557:GLU:HB3	1.86	0.57
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.70	0.57
2:J:1887:ASN:H	2:J:1994:ALA:HB1	1.69	0.57
2:K:1223:SER:CB	2:K:1226:ALA:HB3	2.34	0.57
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.40	0.57
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.05	0.57
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.86	0.57
2:L:541:LEU:HG	2:L:552:VAL:HG11	1.87	0.57
2:L:1217:ILE:HD12	2:L:1234:ILE:HD12	1.87	0.57
1:A:1565:PRO:O	1:A:1566:LYS:C	2.43	0.56
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.39	0.56
1:C:1381:MET:HG2	1:C:1382:THR:N	2.19	0.56
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.87	0.56
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.66	0.56
1:E:1214:HIS:CD2	1:E:1216:SER:OG	2.57	0.56
1:E:1536:ASP:N	1:E:1602:PHE:HE1	2.02	0.56

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:663:ILE:H	2:J:663:ILE:CD1	2.18	0.56
2:J:726:GLN:O	2:J:730:ILE:HG12	2.04	0.56
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.35	0.56
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.21	0.56
2:L:719:GLY:O	2:L:755:GLU:HG3	2.06	0.56
2:L:1130:ILE:HG21	2:L:1155:PRO:HB3	1.87	0.56
2:L:1888:PRO:HB3	2:L:1895:PHE:CD1	2.38	0.56
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.06	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:CD1	2.40	0.56
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.87	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.37	0.56
1:B:498:THR:HG21	1:B:858:LEU:O	2.06	0.56
1:C:498:THR:HG21	1:C:858:LEU:O	2.05	0.56
1:C:726:VAL:HG21	1:C:780:ALA:HB3	1.87	0.56
1:C:1444:GLN:OE1	1:C:1444:GLN:HA	2.05	0.56
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.40	0.56
1:C:1638:HIS:ND1	1:C:1639:PRO:HD2	2.19	0.56
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.88	0.56
1:E:47:ILE:HB	2:K:1694:PHE:CD1	2.40	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.34	0.56
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.40	0.56
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.36	0.56
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.39	0.56
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.71	0.56
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.40	0.56
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.35	0.56
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.87	0.56
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.34	0.56
2:G:2052:LYS:HB3	2:G:2074:TRP:CD2	2.41	0.56
2:H:24:LEU:HD11	2:H:45:ALA:HB1	1.87	0.56
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.41	0.56
2:H:661:ASN:HD21	3:H:2101:FMN:HN3	1.52	0.56
2:H:1008:ILE:HD12	2:H:1013:VAL:HG22	1.85	0.56
2:H:1223:SER:CB	2:H:1226:ALA:HB3	2.34	0.56
2:H:1335:PHE:CE1	2:H:1629:ILE:HD11	2.40	0.56
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.87	0.56
2:H:1475:LEU:HD11	2:H:1483:LEU:HD11	1.87	0.56
2:H:1726:PHE:CZ	2:H:1857:VAL:HB	2.40	0.56
2:I:215:TRP:CE3	2:I:216:ASP:N	2.67	0.56
2:I:931:TYR:O	2:I:935:VAL:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1179:GLU:HA	2:I:1190:ASN:CB	2.35	0.56
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.71	0.56
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	1.85	0.56
2:J:144:ARG:HH21	2:J:151:PRO:HA	1.70	0.56
2:J:1622:THR:HG23	2:J:1627:ASN:OD1	2.04	0.56
2:K:190:TYR:HE1	2:K:201:ILE:HG21	1.70	0.56
2:K:934:VAL:O	2:K:938:MET:HG3	2.05	0.56
2:K:2052:LYS:H	2:K:2052:LYS:CE	2.09	0.56
2:L:21:LEU:HD22	2:L:36:LEU:HD22	1.87	0.56
2:L:493:MET:HA	2:L:497:ASP:HB2	1.87	0.56
2:L:1977:ARG:HD2	2:L:1978:LYS:HG3	1.88	0.56
1:A:767:HIS:NE2	1:A:771:LEU:HD23	2.21	0.56
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.39	0.56
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.88	0.56
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.71	0.56
1:B:1565:PRO:O	1:B:1567:GLY:N	2.38	0.56
1:C:623:PHE:CD2	1:C:623:PHE:N	2.73	0.56
1:C:1280:CYS:HB2	1:C:1626:GLY:HA2	1.87	0.56
1:D:47:ILE:HD12	2:J:1818:PHE:HD1	1.69	0.56
1:D:962:ASN:HD22	2:J:1006:GLN:NE2	2.04	0.56
1:D:1078:ILE:HD13	1:D:1352:MET:HG2	1.86	0.56
1:D:1565:PRO:HG3	1:D:1572:TRP:CH2	2.40	0.56
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.87	0.56
1:F:1081:ILE:HG13	1:F:1159:LEU:O	2.05	0.56
2:G:652:ILE:HG23	2:G:653:PRO:HD2	1.87	0.56
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.87	0.56
2:H:118:ASP:OD2	2:H:559:PHE:HB2	2.06	0.56
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.36	0.56
2:H:472:THR:HG23	2:H:499:VAL:HA	1.87	0.56
2:H:616:ASP:OD2	2:H:823:HIS:CE1	2.58	0.56
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.19	0.56
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.41	0.56
2:I:1171:TRP:HB3	2:I:1265:TYR:CE1	2.40	0.56
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.18	0.56
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.28	0.56
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.20	0.56
2:I:1866:THR:HA	2:I:1869:VAL:CG2	2.36	0.56
2:J:931:TYR:O	2:J:935:VAL:HG12	2.05	0.56
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.56
2:L:68:GLU:HB3	2:L:69:PRO:CD	2.36	0.56
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1346:MET:HB2	2:L:1427:MET:CE	2.35	0.56
2:L:1866:THR:HA	2:L:1869:VAL:CG2	2.35	0.56
1:A:433:CYS:O	1:A:437:MET:HG3	2.06	0.56
1:A:1388:LYS:HD3	1:E:1692:GLN:HE22	1.70	0.56
1:C:999:LEU:HD21	1:C:1575:ASN:CG	2.25	0.56
1:E:551:LEU:HD23	1:E:551:LEU:C	2.25	0.56
1:E:999:LEU:HD21	1:E:1575:ASN:CG	2.25	0.56
1:E:1142:LEU:HD12	1:E:1142:LEU:H	1.70	0.56
1:F:621:ASP:CB	1:F:625:ASN:HB2	2.36	0.56
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.87	0.56
2:G:938:MET:HB3	2:G:959:THR:HG22	1.88	0.56
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.05	0.56
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.20	0.56
2:G:1866:THR:HA	2:G:1869:VAL:HG22	1.86	0.56
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.88	0.56
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.71	0.56
2:I:857:VAL:HG13	2:I:876:TRP:HE1	1.70	0.56
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.36	0.56
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.06	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.18	0.56
2:K:845:ASN:HD21	2:K:849:ARG:HH11	1.53	0.56
2:K:1008:ILE:HD12	2:K:1013:VAL:HG22	1.87	0.56
2:K:1694:PHE:HD2	2:K:1843:ALA:HB2	1.70	0.56
2:K:1938:THR:O	2:K:1942:VAL:HG23	2.05	0.56
2:K:1977:ARG:HD2	2:K:1978:LYS:HG3	1.88	0.56
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.40	0.56
2:L:606:ALA:HB2	2:L:811:MET:CG	2.35	0.56
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.40	0.56
2:L:1960:MET:HB3	2:L:1964:ASP:CB	2.35	0.56
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.67	0.56
1:A:18:LEU:HD21	2:G:1844:LEU:HD11	1.88	0.56
1:A:1052:ASP:HB3	1:A:1055:THR:O	2.05	0.56
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.69	0.56
1:A:1523:HIS:HB2	1:A:1624:SER:HA	1.88	0.56
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.87	0.56
1:D:415:TYR:O	1:D:419:PHE:HD1	1.88	0.56
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.05	0.56
1:D:1493:PHE:CE2	1:D:1509:THR:HG22	2.40	0.56
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.04	0.56
2:G:661:ASN:HD21	3:G:2101:FMN:HN3	1.51	0.56
2:H:37:VAL:HG12	2:H:38:PRO:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.35	0.56
2:I:1217:ILE:HD12	2:I:1234:ILE:HD12	1.87	0.56
2:K:31:LEU:HD13	2:K:75:LEU:HD21	1.88	0.56
2:K:1097:PHE:HD2	2:K:1100:ARG:HH12	1.52	0.56
2:K:1305:LEU:H	2:K:1305:LEU:HD12	1.69	0.56
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.38	0.56
2:L:868:LEU:O	2:L:870:THR:HG23	2.06	0.56
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.40	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:H	1.68	0.56
1:C:1230:SER:HA	1:C:1311:GLN:NE2	2.20	0.56
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.88	0.56
1:D:651:GLN:HA	1:D:677:GLY:HA3	1.87	0.56
1:D:1602:PHE:N	1:D:1602:PHE:CD2	2.74	0.56
1:F:682:VAL:HG11	1:F:695:TYR:CE2	2.40	0.56
1:F:1443:LEU:HD11	1:F:1470:ARG:HB3	1.87	0.56
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.33	0.56
2:G:1217:ILE:HD12	2:G:1234:ILE:HD12	1.88	0.56
2:G:1475:LEU:HD11	2:G:1483:LEU:HD11	1.87	0.56
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.87	0.56
2:G:2059:HIS:ND1	2:G:2067:ILE:HG22	2.20	0.56
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.24	0.56
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.35	0.56
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.36	0.56
2:H:779:GLY:O	2:H:780:SER:CB	2.52	0.56
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.59	0.56
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.06	0.56
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.08	0.56
2:I:600:VAL:HG22	2:I:601:PRO:HD2	1.87	0.56
2:I:924:VAL:HG12	2:I:925:ASP:H	1.70	0.56
2:I:962:PHE:O	2:I:966:VAL:HG23	2.06	0.56
2:I:1976:CYS:O	2:I:1980:THR:HG23	2.05	0.56
2:J:215:TRP:CE3	2:J:216:ASP:N	2.68	0.56
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.87	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD21	1.70	0.56
2:K:1516:GLU:HA	2:K:1521:GLU:O	2.06	0.56
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.41	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.40	0.56
2:L:1346:MET:HB2	2:L:1427:MET:HE3	1.88	0.56
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.41	0.56
1:B:1580:VAL:HG22	1:B:1585:ILE:O	2.06	0.56
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	1.88	0.56
1:C:1106:LEU:HD23	1:C:1107:GLU:N	2.21	0.56
1:D:855:ALA:HA	1:D:919:ARG:NH2	2.18	0.56
1:E:701:ARG:NH1	1:E:1610:ARG:HH21	2.04	0.56
2:G:540:ILE:HD13	2:G:557:GLU:HB3	1.87	0.56
2:G:606:ALA:HB2	2:G:811:MET:CG	2.36	0.56
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.87	0.56
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.41	0.56
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.05	0.56
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.88	0.56
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.28	0.56
2:J:709:LEU:HD23	2:J:709:LEU:H	1.71	0.56
2:J:1299:VAL:CG2	2:J:1301:PHE:CE2	2.87	0.56
2:J:1706:MET:O	2:J:1709:TYR:HB3	2.06	0.56
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.69	0.56
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.06	0.56
2:K:1290:TYR:CD1	2:K:1299:VAL:HG12	2.41	0.56
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.05	0.56
2:L:636:TYR:N	2:L:636:TYR:HD1	2.04	0.56
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.40	0.56
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.87	0.56
1:A:883:LEU:N	1:A:883:LEU:HD23	2.20	0.56
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.87	0.56
1:A:1470:ARG:O	1:A:1474:ILE:HG13	2.05	0.56
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.06	0.56
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.87	0.56
1:B:1470:ARG:O	1:B:1474:ILE:HG13	2.06	0.56
1:C:397:ARG:NH1	1:C:692:THR:HG21	2.20	0.56
1:C:1610:ARG:HH11	1:C:1610:ARG:CG	1.97	0.56
1:E:1161:ALA:O	1:E:1163:GLN:HG3	2.06	0.56
1:E:1394:PRO:HB3	1:E:1627:PHE:CE2	2.41	0.56
1:E:1523:HIS:HB2	1:E:1624:SER:HA	1.88	0.56
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.86	0.56
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.70	0.56
2:G:327:PRO:CD	2:H:1338:ARG:NH2	2.64	0.56
2:G:350:MET:CE	2:G:435:ILE:HD12	2.36	0.56
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.88	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.88	0.56
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.06	0.56
2:I:1896:THR:HG22	2:I:1897:GLU:N	2.21	0.56
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.21	0.56

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.37	0.55
2:G:1726:PHE:CZ	2:G:1857:VAL:HB	2.41	0.55
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.68	0.55
2:H:1061:VAL:HG12	2:H:1066:ILE:HD11	1.88	0.55
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.71	0.55
2:H:1521:GLU:OE2	2:H:2028:THR:CG2	2.55	0.55
2:I:1008:ILE:HD12	2:I:1013:VAL:HG22	1.88	0.55
2:I:1138:ASP:HB2	2:I:1140:ASN:H	1.71	0.55
2:I:1475:LEU:HA	2:I:1526:ALA:HB2	1.89	0.55
2:I:1964:ASP:O	2:I:1968:HIS:HB2	2.07	0.55
2:I:1977:ARG:HD2	2:I:1978:LYS:HG3	1.88	0.55
2:J:48:LEU:HD13	2:J:83:VAL:HG22	1.89	0.55
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.21	0.55
2:K:300:THR:HG22	2:K:302:ASP:H	1.72	0.55
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.89	0.55
2:K:779:GLY:O	2:K:780:SER:CB	2.52	0.55
2:L:60:THR:HG22	2:L:62:GLU:H	1.71	0.55
2:L:99:LEU:O	2:L:103:LYS:HG3	2.07	0.55
2:L:911:GLN:HE21	2:L:1065:CYS:H	1.54	0.55
2:L:942:MET:CE	2:L:955:LEU:HB3	2.36	0.55
2:L:1938:THR:O	2:L:1942:VAL:HG23	2.06	0.55
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.86	0.55
1:B:1307:PHE:HB3	1:B:1357:CYS:HB2	1.88	0.55
1:D:332:GLN:O	1:D:335:LEU:HB3	2.05	0.55
1:E:430:VAL:O	1:E:434:ILE:HG13	2.06	0.55
1:E:532:ILE:HG22	1:E:907:PHE:HB2	1.83	0.55
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.88	0.55
1:E:1381:MET:HG2	1:E:1382:THR:N	2.22	0.55
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.88	0.55
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.22	0.55
2:H:251:PRO:CG	2:H:316:PHE:HA	2.34	0.55
2:H:823:HIS:HB3	2:H:1051:GLU:HG3	1.89	0.55
2:H:1290:TYR:CD1	2:H:1299:VAL:HG12	2.41	0.55
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.87	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.33	0.55
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.21	0.55
2:J:1154:LEU:HD13	2:J:1198:PRO:HB3	1.88	0.55
2:J:1944:ASN:HA	2:J:1993:PHE:CD1	2.42	0.55
2:K:126:VAL:HG12	2:K:127:ALA:H	1.71	0.55
2:K:549:ASN:HD22	2:K:550:THR:N	2.03	0.55
2:K:595:SER:HB2	2:K:600:VAL:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1130:ILE:HB	2:K:1133:LEU:HD22	1.88	0.55
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.21	0.55
2:K:1315:ILE:H	2:K:1315:ILE:HD12	1.71	0.55
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.68	0.55
2:L:1171:TRP:HB3	2:L:1265:TYR:CE1	2.41	0.55
2:L:1499:LYS:HD3	2:L:1534:GLU:OE1	2.06	0.55
2:L:1517:LEU:HB2	2:L:1521:GLU:HB2	1.87	0.55
1:A:689:ARG:HH21	1:A:1591:ASN:ND2	2.05	0.55
1:A:1420:TYR:OH	1:E:1473:HIS:HE1	1.89	0.55
1:B:332:GLN:O	1:B:335:LEU:HB3	2.07	0.55
1:B:987:MET:O	1:B:1490:GLY:HA3	2.07	0.55
1:B:1523:HIS:HB2	1:B:1624:SER:HA	1.87	0.55
1:D:397:ARG:HH11	1:D:692:THR:HG21	1.70	0.55
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.87	0.55
1:E:883:LEU:N	1:E:883:LEU:HD23	2.21	0.55
1:E:1432:ILE:CD1	1:E:1481:GLN:HB3	2.36	0.55
1:F:408:GLN:HE22	1:F:1609:SER:H	1.53	0.55
1:F:443:LEU:H	1:F:443:LEU:HD12	1.72	0.55
1:F:612:ILE:HD12	1:F:907:PHE:HZ	1.72	0.55
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.07	0.55
1:F:1214:HIS:CD2	1:F:1216:SER:OG	2.58	0.55
1:F:1565:PRO:O	1:F:1567:GLY:N	2.40	0.55
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.37	0.55
2:G:621:THR:HG21	2:G:628:ILE:HD12	1.89	0.55
2:H:916:GLY:C	2:H:929:MET:HE1	2.27	0.55
2:H:1442:TYR:HA	2:H:1445:THR:HG22	1.87	0.55
2:H:1944:ASN:HA	2:H:1993:PHE:CD1	2.42	0.55
2:H:1962:LEU:O	2:H:1966:ARG:HB3	2.06	0.55
2:I:331:LEU:HD22	2:I:396:ILE:HG13	1.89	0.55
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.91	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.36	0.55
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.35	0.55
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.06	0.55
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.41	0.55
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.06	0.55
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.87	0.55
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.36	0.55
2:K:1499:LYS:CG	2:K:1500:ASN:N	2.69	0.55
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.37	0.55
2:L:246:ALA:HB3	2:L:247:PRO:HD3	1.87	0.55
1:A:88:ILE:HG21	2:G:1821:MET:HE1	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1490:GLY:O	1:A:1509:THR:HB	2.07	0.55
1:A:1573:MET:HE2	1:A:1622:VAL:HG23	1.88	0.55
1:B:651:GLN:HA	1:B:677:GLY:HA3	1.88	0.55
1:B:883:LEU:N	1:B:883:LEU:HD23	2.22	0.55
1:B:1389:ILE:CG1	1:D:1268:SER:HB3	2.12	0.55
1:B:1630:LYS:HD2	1:D:1273:ILE:CD1	2.33	0.55
1:C:833:TRP:CH2	1:C:839:ILE:HD11	2.41	0.55
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.86	0.55
1:D:29:ILE:HD11	2:J:1923:ALA:N	2.21	0.55
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	1.88	0.55
1:F:335:LEU:C	1:F:335:LEU:HD12	2.26	0.55
1:F:621:ASP:HB3	1:F:625:ASN:HB2	1.88	0.55
2:G:521:VAL:O	2:G:526:VAL:HG21	2.07	0.55
2:G:573:VAL:CG2	2:G:804:PRO:HB2	2.37	0.55
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.42	0.55
2:H:1179:GLU:HA	2:H:1190:ASN:CB	2.37	0.55
2:H:1346:MET:HB2	2:H:1427:MET:CE	2.35	0.55
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.41	0.55
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.09	0.55
2:J:719:GLY:O	2:J:755:GLU:HG3	2.06	0.55
2:J:1466:VAL:O	2:J:1470:LYS:HG2	2.06	0.55
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.21	0.55
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.42	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG2	1.88	0.55
2:K:541:LEU:HG	2:K:552:VAL:HG11	1.88	0.55
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.37	0.55
2:K:740:ILE:H	2:K:740:ILE:HD12	1.71	0.55
2:K:1346:MET:HB2	2:K:1427:MET:CE	2.37	0.55
2:K:1478:GLN:HG2	2:K:1523:ILE:HG21	1.88	0.55
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.70	0.55
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.37	0.55
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.88	0.55
1:A:1270:THR:HG21	1:E:1402:THR:CG2	2.37	0.55
1:B:682:VAL:HG11	1:B:695:TYR:HE2	1.71	0.55
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.88	0.55
1:B:1444:GLN:OE1	1:B:1444:GLN:HA	2.07	0.55
1:C:11:TYR:O	1:C:15:VAL:HG23	2.06	0.55
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.07	0.55
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.24	0.55
1:E:335:LEU:C	1:E:335:LEU:HD12	2.27	0.55
1:E:415:TYR:O	1:E:419:PHE:HD1	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
2:G:472:THR:HG23	2:G:499:VAL:HA	1.88	0.55
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.88	0.55
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.42	0.55
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.87	0.55
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.36	0.55
2:H:1097:PHE:CD2	2:H:1100:ARG:NH1	2.75	0.55
2:H:1594:ARG:HH11	2:H:1594:ARG:CG	1.93	0.55
2:I:493:MET:HA	2:I:497:ASP:HB2	1.88	0.55
2:I:505:THR:HG22	2:I:505:THR:O	2.06	0.55
2:J:77:ALA:O	2:J:139:ALA:HB1	2.07	0.55
2:J:440:HIS:CD2	2:J:499:VAL:CG2	2.90	0.55
2:J:747:ARG:NH1	2:J:780:SER:O	2.39	0.55
2:J:1602:LEU:HD13	2:J:1606:ILE:CD1	2.36	0.55
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.07	0.55
2:J:1962:LEU:O	2:J:1966:ARG:HB3	2.06	0.55
2:J:1964:ASP:O	2:J:1968:HIS:HB2	2.07	0.55
2:K:101:VAL:O	2:K:105:ILE:HG12	2.07	0.55
2:K:190:TYR:CE1	2:K:201:ILE:HG21	2.41	0.55
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.88	0.55
2:K:1619:LEU:O	2:K:1623:TRP:HB2	2.06	0.55
2:L:646:SER:HA	2:L:649:GLU:HG2	1.88	0.55
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.37	0.55
2:L:895:LEU:HD13	2:L:1034:LEU:HB3	1.89	0.55
2:L:917:ARG:HD3	2:L:921:GLY:O	2.07	0.55
2:L:962:PHE:O	2:L:966:VAL:HG23	2.07	0.55
1:A:332:GLN:O	1:A:335:LEU:HB3	2.06	0.55
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.42	0.55
1:A:1041:PRO:HA	1:A:1046:PRO:HA	1.89	0.55
1:A:1079:ARG:CG	1:A:1079:ARG:NH1	2.63	0.55
1:A:1702:ARG:HG3	1:A:1702:ARG:NH1	2.07	0.55
1:B:1078:ILE:HG21	1:B:1352:MET:HE2	1.89	0.55
1:C:415:TYR:O	1:C:419:PHE:HD1	1.90	0.55
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.36	0.55
1:D:701:ARG:NH1	1:D:1610:ARG:HH21	2.05	0.55
1:F:1047:TYR:CZ	1:F:1058:PRO:HB3	2.42	0.55
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.88	0.55
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.21	0.55
2:H:388:ASN:C	2:H:388:ASN:HD22	2.11	0.55
2:H:621:THR:HG21	2:H:628:ILE:HD12	1.88	0.55
2:H:827:GLN:NE2	2:H:827:GLN:H	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:962:PHE:O	2:H:966:VAL:HG23	2.07	0.55
2:H:1866:THR:HA	2:H:1869:VAL:CG2	2.37	0.55
2:H:1902:TYR:OH	2:H:1966:ARG:HB2	2.07	0.55
2:H:1964:ASP:O	2:H:1968:HIS:HB2	2.07	0.55
2:I:144:ARG:HH21	2:I:151:PRO:HA	1.71	0.55
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.89	0.55
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.87	0.55
2:I:613:VAL:HG12	2:I:614:PRO:HD3	1.89	0.55
2:I:1223:SER:CB	2:I:1226:ALA:HB3	2.37	0.55
2:I:1227:LYS:HG2	2:I:1228:LEU:N	2.22	0.55
2:J:101:VAL:O	2:J:105:ILE:HG12	2.07	0.55
2:J:290:VAL:HA	2:J:490:LEU:CD1	2.36	0.55
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.42	0.55
2:J:1517:LEU:HB2	2:J:1521:GLU:HB2	1.88	0.55
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.88	0.55
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.42	0.55
2:J:1915:LEU:HD21	2:J:1939:LEU:HD22	1.89	0.55
2:K:447:ALA:O	2:K:451:ILE:HG13	2.07	0.55
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.55
2:L:1061:VAL:HG12	2:L:1066:ILE:HD11	1.88	0.55
1:A:504:GLY:O	1:A:926:SER:HB2	2.07	0.55
1:A:1303:LEU:HD23	1:A:1361:VAL:HB	1.89	0.55
1:B:565:GLN:O	1:B:565:GLN:HG2	2.06	0.55
1:B:621:ASP:CB	1:B:625:ASN:HB2	2.36	0.55
1:B:1432:ILE:CD1	1:B:1481:GLN:HB3	2.37	0.55
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.21	0.55
1:D:35:ILE:HD13	2:J:1691:ALA:HB1	1.89	0.55
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.36	0.55
1:D:573:VAL:O	1:D:577:LEU:HG	2.07	0.55
1:D:683:THR:HB	1:D:714:PHE:CB	2.36	0.55
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.42	0.55
1:D:1432:ILE:CD1	1:D:1481:GLN:HB3	2.37	0.55
1:E:1041:PRO:HA	1:E:1046:PRO:HA	1.89	0.55
2:G:609:THR:O	2:G:613:VAL:HB	2.06	0.55
2:G:740:ILE:H	2:G:740:ILE:HD12	1.71	0.55
2:G:1138:ASP:HB2	2:G:1140:ASN:H	1.72	0.55
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.88	0.55
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.25	0.55
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.89	0.55
2:I:1290:TYR:CD1	2:I:1299:VAL:HG12	2.41	0.55
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:126:VAL:HG12	2:J:127:ALA:H	1.72	0.55
2:J:331:LEU:HD22	2:J:396:ILE:HG13	1.88	0.55
2:J:930:THR:HG22	2:J:933:GLU:CG	2.36	0.55
2:J:1179:GLU:HA	2:J:1190:ASN:CB	2.36	0.55
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.37	0.55
2:L:472:THR:H	2:L:493:MET:HE3	1.72	0.55
2:L:609:THR:O	2:L:613:VAL:HB	2.07	0.55
2:L:740:ILE:HD12	2:L:740:ILE:H	1.72	0.55
2:L:1602:LEU:HD13	2:L:1606:ILE:CD1	2.37	0.55
2:L:1706:MET:O	2:L:1709:TYR:HB3	2.07	0.55
1:A:1098:GLN:HB2	1:A:1152:LYS:HE2	1.89	0.54
1:D:47:ILE:HB	2:J:1694:PHE:HD1	1.71	0.54
1:D:1052:ASP:HB3	1:D:1055:THR:O	2.07	0.54
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.21	0.54
1:E:1078:ILE:HG21	1:E:1352:MET:HE2	1.90	0.54
1:F:1536:ASP:N	1:F:1602:PHE:HE1	2.04	0.54
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.37	0.54
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.06	0.54
2:H:606:ALA:HB2	2:H:811:MET:CG	2.37	0.54
2:H:917:ARG:HD3	2:H:921:GLY:O	2.07	0.54
2:I:196:PHE:CD2	2:I:266:LYS:HB3	2.41	0.54
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.89	0.54
2:I:1939:LEU:O	2:I:1943:LEU:HG	2.07	0.54
2:J:645:ILE:HD13	2:J:687:ILE:HD11	1.89	0.54
2:J:924:VAL:HG12	2:J:925:ASP:H	1.72	0.54
2:J:1694:PHE:HD2	2:J:1843:ALA:HB2	1.71	0.54
2:K:1142:ILE:HD11	2:K:1209:PRO:HB3	1.89	0.54
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.72	0.54
2:L:144:ARG:HH21	2:L:151:PRO:HA	1.71	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.89	0.54
1:A:432:GLN:O	1:A:436:ILE:HG13	2.06	0.54
1:B:855:ALA:HA	1:B:919:ARG:NH2	2.21	0.54
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.29	0.54
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.06	0.54
1:D:1470:ARG:O	1:D:1474:ILE:HG13	2.07	0.54
1:E:1106:LEU:HD23	1:E:1107:GLU:N	2.22	0.54
1:F:526:MET:O	1:F:613:PRO:O	2.25	0.54
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.89	0.54
2:G:794:GLY:O	2:G:804:PRO:HA	2.08	0.54
2:G:1334:ALA:O	2:G:1342:PHE:HA	2.07	0.54
2:H:895:LEU:HD13	2:H:1034:LEU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1142:ILE:HD11	2:H:1209:PRO:HB3	1.89	0.54
2:H:1335:PHE:HE1	2:H:1629:ILE:HD13	1.71	0.54
2:H:1621:GLU:OE2	2:H:1629:ILE:HG23	2.08	0.54
2:I:635:TYR:CB	2:I:641:MET:HG3	2.37	0.54
2:I:765:TYR:CB	2:I:805:MET:HE3	2.35	0.54
2:I:1097:PHE:CD2	2:I:1100:ARG:NH1	2.75	0.54
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.43	0.54
2:J:606:ALA:HB2	2:J:811:MET:CG	2.37	0.54
2:J:1061:VAL:HG12	2:J:1066:ILE:HD11	1.88	0.54
2:J:1866:THR:HA	2:J:1869:VAL:CG2	2.37	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.41	0.54
2:K:723:ALA:O	2:K:726:GLN:HB2	2.07	0.54
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.88	0.54
2:K:868:LEU:HD13	2:K:1068:GLN:HG3	1.88	0.54
2:K:1602:LEU:HD13	2:K:1606:ILE:CD1	2.37	0.54
2:K:1804:GLN:HG2	2:K:1865:LEU:CD2	2.38	0.54
2:K:1881:TYR:CB	2:K:2004:PRO:HG3	2.37	0.54
2:L:289:ILE:HG22	2:L:490:LEU:HD22	1.89	0.54
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.20	0.54
2:L:1115:TYR:CZ	2:L:1174:ALA:HB2	2.42	0.54
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.23	0.54
1:A:1574:LEU:CD1	1:A:1622:VAL:HG11	2.37	0.54
1:B:47:ILE:HB	2:H:1694:PHE:CD1	2.42	0.54
1:B:1143:ARG:HH21	1:C:356:LYS:NZ	2.06	0.54
1:B:1638:HIS:ND1	1:B:1639:PRO:HD2	2.22	0.54
1:C:628:TYR:CE1	1:C:630:LYS:HG2	2.43	0.54
1:C:651:GLN:HA	1:C:677:GLY:HA3	1.88	0.54
1:C:955:VAL:HG23	2:I:981:GLN:OE1	2.07	0.54
1:C:1536:ASP:N	1:C:1602:PHE:HE1	2.06	0.54
1:C:1647:ASP:HB2	1:C:1649:ALA:HB3	1.88	0.54
1:D:427:ARG:NH1	1:D:492:ILE:CG1	2.71	0.54
1:D:715:ASN:HD22	1:D:717:GLY:H	1.55	0.54
1:D:1230:SER:HA	1:D:1311:GLN:NE2	2.22	0.54
1:E:21:GLN:HE22	2:K:1841:TYR:HE1	1.55	0.54
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.20	0.54
1:E:435:GLN:HG2	1:E:701:ARG:O	2.08	0.54
1:E:439:ARG:O	1:E:444:LEU:HD12	2.07	0.54
1:E:621:ASP:CB	1:E:625:ASN:HB2	2.36	0.54
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.07	0.54
1:F:397:ARG:NH1	1:F:692:THR:HG21	2.22	0.54
1:F:628:TYR:HE1	1:F:630:LYS:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.88	0.54
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.21	0.54
1:F:1565:PRO:O	1:F:1566:LYS:C	2.46	0.54
2:G:876:TRP:CH2	2:G:1043:LYS:HB2	2.42	0.54
2:G:2052:LYS:HB3	2:G:2074:TRP:CZ2	2.42	0.54
2:H:99:LEU:O	2:H:103:LYS:HG3	2.07	0.54
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.38	0.54
2:H:832:ILE:HA	2:H:868:LEU:HD21	1.89	0.54
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.90	0.54
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.54
2:H:2052:LYS:HB3	2:H:2074:TRP:CD2	2.42	0.54
2:I:49:LYS:HA	2:I:79:TYR:HE1	1.72	0.54
2:I:636:TYR:N	2:I:636:TYR:CD1	2.76	0.54
2:I:723:ALA:O	2:I:726:GLN:HB2	2.07	0.54
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.89	0.54
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.24	0.54
2:J:1142:ILE:HD11	2:J:1209:PRO:HB3	1.88	0.54
2:J:1499:LYS:CG	2:J:1500:ASN:N	2.70	0.54
2:K:24:LEU:HD11	2:K:45:ALA:CB	2.37	0.54
2:K:144:ARG:HH21	2:K:151:PRO:HA	1.71	0.54
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.07	0.54
2:L:31:LEU:HD13	2:L:75:LEU:HD21	1.89	0.54
2:L:600:VAL:HG22	2:L:601:PRO:HD2	1.89	0.54
2:L:1259:LEU:HB2	2:L:1288:PHE:CE1	2.42	0.54
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.88	0.54
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.90	0.54
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.90	0.54
1:C:537:ASN:HB3	1:C:585:MET:SD	2.48	0.54
1:C:1160:VAL:HG23	1:C:1327:ALA:HB2	1.88	0.54
1:C:1443:LEU:HD13	1:C:1470:ARG:HB3	1.90	0.54
1:D:965:TYR:CZ	1:D:1199:LEU:HD22	2.42	0.54
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.89	0.54
1:F:18:LEU:HD21	2:L:1844:LEU:CD1	2.37	0.54
1:F:617:LEU:HD11	1:F:636:TYR:HB2	1.89	0.54
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.42	0.54
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.43	0.54
2:G:719:GLY:O	2:G:755:GLU:HG3	2.07	0.54
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	1.89	0.54
2:H:144:ARG:HH21	2:H:151:PRO:HA	1.72	0.54
2:H:448:HIS:HD2	2:H:491:VAL:CG1	2.21	0.54
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.92	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1130:ILE:HB	2:H:1133:LEU:HD22	1.89	0.54
2:H:1299:VAL:CG2	2:H:1301:PHE:CE2	2.87	0.54
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.08	0.54
2:H:1440:THR:O	2:H:1440:THR:HG22	2.07	0.54
2:H:1478:GLN:HG2	2:H:1523:ILE:HG21	1.90	0.54
2:I:77:ALA:O	2:I:139:ALA:HB1	2.07	0.54
2:I:636:TYR:N	2:I:636:TYR:HD1	2.05	0.54
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.42	0.54
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.90	0.54
2:I:1519:THR:OG1	2:I:1521:GLU:HG2	2.07	0.54
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.37	0.54
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.54
2:K:1247:PHE:HB3	2:K:1256:VAL:CG1	2.37	0.54
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.89	0.54
2:K:1888:PRO:HB3	2:K:1895:PHE:CD1	2.41	0.54
2:L:608:MET:H	2:L:612:THR:CB	2.20	0.54
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.89	0.54
2:L:1290:TYR:CD1	2:L:1299:VAL:HG12	2.42	0.54
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.38	0.54
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	1.89	0.54
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.08	0.54
2:L:1915:LEU:HD21	2:L:1939:LEU:HD22	1.90	0.54
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.07	0.54
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.54
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.36	0.54
1:A:1443:LEU:HD13	1:A:1470:ARG:HB3	1.89	0.54
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.88	0.54
1:B:1001:GLU:O	1:B:1002:ILE:HD12	2.08	0.54
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.22	0.54
1:D:1603:ASP:HB2	1:D:1604:TYR:CD2	2.43	0.54
1:E:1443:LEU:HD11	1:E:1470:ARG:HB3	1.87	0.54
1:F:682:VAL:HG11	1:F:695:TYR:HE2	1.72	0.54
1:F:1493:PHE:CE2	1:F:1509:THR:HG22	2.43	0.54
2:G:832:ILE:HA	2:G:868:LEU:HD21	1.88	0.54
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.42	0.54
2:G:1804:GLN:HG2	2:G:1865:LEU:HD23	1.90	0.54
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.06	0.54
2:H:24:LEU:HD11	2:H:45:ALA:CB	2.37	0.54
2:H:578:PRO:HG3	2:H:792:LEU:O	2.07	0.54
2:I:24:LEU:HD11	2:I:45:ALA:CB	2.37	0.54
2:I:612:THR:O	2:I:612:THR:HG22	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1200:ARG:HD3	2:I:1200:ARG:N	2.22	0.54
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.90	0.54
2:I:1888:PRO:HB3	2:I:1895:PHE:CD1	2.41	0.54
2:J:521:VAL:O	2:J:526:VAL:HG21	2.08	0.54
2:J:635:TYR:CB	2:J:641:MET:HG3	2.37	0.54
2:J:1902:TYR:OH	2:J:1966:ARG:HB2	2.08	0.54
2:J:2033:SER:HA	2:J:2036:ILE:HD12	1.88	0.54
2:K:578:PRO:HG3	2:K:792:LEU:O	2.08	0.54
2:K:612:THR:HG21	2:K:629:GLU:O	2.08	0.54
2:K:747:ARG:HD3	2:K:1071:VAL:HG11	1.87	0.54
2:K:1346:MET:HE3	2:K:1617:ARG:NH2	2.23	0.54
2:K:1440:THR:HG22	2:K:1440:THR:O	2.07	0.54
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.07	0.54
2:K:1866:THR:HA	2:K:1869:VAL:CG2	2.38	0.54
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.71	0.54
2:L:49:LYS:HA	2:L:79:TYR:HE1	1.73	0.54
1:A:701:ARG:NH1	1:A:1610:ARG:NH2	2.56	0.54
1:A:1097:LEU:CD1	1:E:1149:LEU:HD12	2.38	0.54
1:B:408:GLN:HE22	1:B:1609:SER:H	1.54	0.54
1:B:1565:PRO:HG3	1:B:1572:TRP:CH2	2.43	0.54
1:B:1574:LEU:CD1	1:B:1622:VAL:HG11	2.38	0.54
1:C:414:TYR:O	1:C:418:ILE:HG13	2.08	0.54
1:C:1534:GLU:HG2	1:C:1625:PHE:HE1	1.72	0.54
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.51	0.54
1:D:621:ASP:CB	1:D:625:ASN:HB2	2.38	0.54
1:D:623:PHE:N	1:D:623:PHE:CD2	2.74	0.54
1:D:689:ARG:HH21	1:D:1591:ASN:ND2	2.06	0.54
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	1.89	0.54
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.08	0.54
1:E:1574:LEU:CD1	1:E:1622:VAL:HG11	2.37	0.54
1:F:950:ALA:HA	1:F:953:ARG:CZ	2.37	0.54
1:F:1602:PHE:N	1:F:1602:PHE:HD2	2.05	0.54
2:G:378:ILE:HG23	2:G:391:VAL:HG13	1.90	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.89	0.54
2:G:1619:LEU:O	2:G:1623:TRP:HB2	2.07	0.54
2:G:1977:ARG:HD2	2:G:1978:LYS:HG3	1.89	0.54
2:H:117:ASN:HA	2:H:561:ARG:HD2	1.88	0.54
2:H:1334:ALA:O	2:H:1342:PHE:HA	2.07	0.54
2:I:832:ILE:HA	2:I:868:LEU:HD21	1.90	0.54
2:I:1499:LYS:CG	2:I:1500:ASN:N	2.70	0.54
2:I:1622:THR:HG23	2:I:1627:ASN:OD1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1804:GLN:HG2	2:I:1865:LEU:CD2	2.38	0.54
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.89	0.54
2:J:24:LEU:HD11	2:J:45:ALA:HB1	1.90	0.54
2:J:31:LEU:HD13	2:J:75:LEU:HD21	1.90	0.54
2:J:775:VAL:O	2:J:777:VAL:HG23	2.07	0.54
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.90	0.54
2:K:1259:LEU:HB2	2:K:1288:PHE:CE1	2.43	0.54
2:K:1964:ASP:O	2:K:1968:HIS:HB2	2.07	0.54
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.42	0.54
2:L:1120:ILE:HD13	2:L:1167:ASN:O	2.08	0.54
1:A:623:PHE:N	1:A:623:PHE:CD2	2.76	0.54
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.41	0.54
1:B:1052:ASP:HB3	1:B:1055:THR:O	2.07	0.54
1:B:1699:PRO:HG2	1:D:1406:GLU:HA	1.90	0.54
1:C:621:ASP:CB	1:C:625:ASN:HB2	2.38	0.54
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.89	0.54
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.36	0.54
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.37	0.54
2:G:144:ARG:HH21	2:G:151:PRO:HA	1.73	0.54
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.90	0.54
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.38	0.54
2:G:289:ILE:HG22	2:G:490:LEU:HD22	1.90	0.54
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.07	0.54
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.89	0.54
2:G:942:MET:CE	2:G:955:LEU:HB3	2.37	0.54
2:G:1871:VAL:HG21	2:G:2004:PRO:HD3	1.90	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD1	2.43	0.54
2:H:1960:MET:HB3	2:H:1964:ASP:CB	2.36	0.54
2:I:934:VAL:O	2:I:938:MET:HG3	2.08	0.54
2:J:617:PHE:HD1	2:J:822:ALA:HA	1.73	0.54
2:J:1138:ASP:HB2	2:J:1140:ASN:H	1.73	0.54
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.88	0.54
2:K:289:ILE:HG22	2:K:490:LEU:HD22	1.88	0.54
2:K:636:TYR:N	2:K:636:TYR:HD1	2.05	0.54
2:K:832:ILE:HA	2:K:868:LEU:HD21	1.90	0.54
2:K:868:LEU:O	2:K:870:THR:N	2.40	0.54
2:K:1123:ALA:HB3	2:K:1126:GLU:HG3	1.88	0.54
2:K:1239:ASP:OD1	2:K:1240:ASN:N	2.37	0.54
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.07	0.54
2:L:300:THR:HG22	2:L:302:ASP:H	1.73	0.54
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.73	0.54

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:119:VAL:HA	2:I:122:ILE:HG22	1.90	0.54
2:I:747:ARG:NH1	2:I:780:SER:O	2.41	0.54
2:I:1871:VAL:CG1	2:I:1872:GLU:N	2.70	0.54
2:J:49:LYS:HA	2:J:79:TYR:HE1	1.72	0.54
2:J:467:ILE:CG2	2:J:468:PRO:HD2	2.37	0.54
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.90	0.54
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.54
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.90	0.54
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.06	0.54
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.43	0.54
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.90	0.54
2:L:607:GLY:HA2	2:L:612:THR:HG21	1.90	0.54
2:L:926:LEU:O	2:L:1008:ILE:HD11	2.08	0.54
2:L:1334:ALA:O	2:L:1342:PHE:HA	2.07	0.54
2:L:1694:PHE:HD2	2:L:1843:ALA:HB2	1.72	0.54
1:A:1390:GLY:O	1:E:1264:MET:HB3	2.08	0.53
1:B:950:ALA:HA	1:B:953:ARG:CZ	2.38	0.53
1:C:397:ARG:HH11	1:C:692:THR:HG21	1.73	0.53
1:D:628:TYR:CE1	1:D:630:LYS:HG2	2.43	0.53
1:D:653:LYS:HD3	1:D:742:TYR:HE2	1.71	0.53
1:E:613:PRO:O	1:E:614:PHE:HB2	2.07	0.53
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.08	0.53
2:G:24:LEU:HD11	2:G:45:ALA:CB	2.38	0.53
2:G:917:ARG:HD3	2:G:921:GLY:O	2.08	0.53
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.90	0.53
2:G:1868:GLN:HG2	2:G:1873:ARG:HH22	1.73	0.53
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.44	0.53
2:H:215:TRP:N	2:H:215:TRP:CE3	2.76	0.53
2:H:1888:PRO:HB3	2:H:1895:PHE:CD1	2.42	0.53
2:J:1977:ARG:HD2	2:J:1978:LYS:HG3	1.89	0.53
2:K:600:VAL:HG13	2:K:601:PRO:N	2.24	0.53
2:K:636:TYR:N	2:K:636:TYR:CD1	2.75	0.53
2:K:781:GLY:HA2	2:K:1071:VAL:CG1	2.35	0.53
2:K:916:GLY:C	2:K:929:MET:HE1	2.28	0.53
2:K:917:ARG:HD3	2:K:921:GLY:O	2.08	0.53
2:K:924:VAL:HG12	2:K:925:ASP:H	1.73	0.53
2:K:1115:TYR:OH	2:K:1173:HIS:HD2	1.90	0.53
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.90	0.53
1:A:415:TYR:CE2	1:A:1614:THR:HB	2.43	0.53
1:C:918:LEU:O	1:C:921:GLU:HG3	2.08	0.53
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.09	0.53
1:D:950:ALA:HA	1:D:953:ARG:CZ	2.38	0.53
1:E:27:ARG:HG3	2:K:2045:ALA:HB2	1.90	0.53
1:E:623:PHE:CD2	1:E:623:PHE:N	2.75	0.53
1:E:1647:ASP:HB2	1:E:1649:ALA:HB3	1.90	0.53
2:G:350:MET:HG3	2:G:435:ILE:HB	1.90	0.53
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.76	0.53
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.10	0.53
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.74	0.53
2:H:1335:PHE:CE1	2:H:1629:ILE:CD1	2.91	0.53
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.23	0.53
2:I:895:LEU:HD13	2:I:1034:LEU:HB3	1.90	0.53
2:J:24:LEU:HD11	2:J:45:ALA:CB	2.38	0.53
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.89	0.53
2:J:1519:THR:OG1	2:J:1521:GLU:HG2	2.08	0.53
2:K:60:THR:HG22	2:K:62:GLU:H	1.74	0.53
2:K:106:LEU:HD11	2:K:143:GLY:O	2.07	0.53
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.10	0.53
2:K:957:LYS:HE2	2:K:1022:ARG:HH22	1.73	0.53
2:K:1130:ILE:HG21	2:K:1155:PRO:HB3	1.90	0.53
2:L:779:GLY:HA3	2:L:811:MET:CE	2.38	0.53
2:L:1286:LYS:HZ1	2:L:1367:ASP:HA	1.72	0.53
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.41	0.53
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	1.91	0.53
1:D:1565:PRO:O	1:D:1567:GLY:N	2.40	0.53
1:E:1565:PRO:O	1:E:1566:LYS:C	2.47	0.53
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.23	0.53
1:F:1670:HIS:ND1	2:L:1009:ASN:ND2	2.57	0.53
2:G:1602:LEU:HD13	2:G:1606:ILE:CD1	2.39	0.53
2:H:31:LEU:HD13	2:H:75:LEU:HD21	1.89	0.53
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.44	0.53
2:H:1289:TYR:HB2	2:H:1370:LEU:HD23	1.89	0.53
2:H:1619:LEU:O	2:H:1623:TRP:HB2	2.08	0.53
2:I:818:THR:HA	2:I:829:LYS:HG2	1.90	0.53
2:I:845:ASN:HD21	2:I:849:ARG:HH11	1.56	0.53
2:I:1247:PHE:HB3	2:I:1256:VAL:CG1	2.39	0.53
2:J:268:LEU:HD12	2:J:275:LEU:CD1	2.38	0.53
2:J:685:VAL:HG23	2:J:1186:ARG:HH12	1.71	0.53
2:J:1346:MET:HB2	2:J:1427:MET:HE3	1.90	0.53
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.89	0.53
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1335:PHE:HE1	2:K:1629:ILE:CD1	2.21	0.53
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.89	0.53
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.23	0.53
2:L:1964:ASP:O	2:L:1968:HIS:HB2	2.08	0.53
2:L:2033:SER:HA	2:L:2036:ILE:HD12	1.89	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CG	2.21	0.53
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.09	0.53
1:B:41:THR:HG22	2:H:1689:VAL:HG12	1.90	0.53
1:B:397:ARG:HH11	1:B:692:THR:HG21	1.74	0.53
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.73	0.53
1:C:443:LEU:HD12	1:C:443:LEU:H	1.73	0.53
1:C:570:TYR:O	1:C:574:ILE:HG12	2.09	0.53
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.08	0.53
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.07	0.53
1:E:397:ARG:NH1	1:E:692:THR:HG21	2.22	0.53
1:E:549:TYR:O	1:E:553:ARG:HB3	2.09	0.53
1:F:29:ILE:HD11	2:L:1922:VAL:C	2.29	0.53
1:F:1020:PHE:CE2	1:F:1028:MET:HG3	2.43	0.53
2:G:699:ILE:HD12	2:G:699:ILE:N	2.24	0.53
2:G:1537:GLY:O	2:G:1539:PRO:HD3	2.09	0.53
2:G:1964:ASP:O	2:G:1968:HIS:HB2	2.08	0.53
2:H:215:TRP:CE3	2:H:216:ASP:N	2.66	0.53
2:H:240:THR:O	2:H:244:VAL:HG23	2.08	0.53
2:H:573:VAL:CG2	2:H:804:PRO:HB2	2.38	0.53
2:H:845:ASN:HD21	2:H:849:ARG:HH11	1.55	0.53
2:H:931:TYR:O	2:H:935:VAL:HG12	2.07	0.53
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.43	0.53
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.07	0.53
2:J:1338:ARG:NH2	2:L:327:PRO:O	2.36	0.53
2:K:645:ILE:HD13	2:K:687:ILE:HD11	1.90	0.53
2:K:930:THR:HG22	2:K:933:GLU:CG	2.38	0.53
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.38	0.53
2:L:1726:PHE:CZ	2:L:1857:VAL:HB	2.44	0.53
2:L:1764:MET:CE	2:L:1865:LEU:HD12	2.39	0.53
1:A:421:ARG:HH22	1:A:1613:LYS:CB	2.21	0.53
1:A:950:ALA:HA	1:A:953:ARG:CZ	2.37	0.53
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.41	0.53
1:B:621:ASP:HB3	1:B:625:ASN:H	1.72	0.53
1:C:332:GLN:O	1:C:335:LEU:HB3	2.09	0.53
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:768:ARG:HA	1:D:772:THR:OG1	2.09	0.53
1:E:332:GLN:O	1:E:335:LEU:HB3	2.09	0.53
1:E:432:GLN:O	1:E:436:ILE:HG13	2.08	0.53
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.44	0.53
1:E:907:PHE:O	1:E:909:PRO:HD3	2.08	0.53
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.91	0.53
2:G:924:VAL:HG12	2:G:925:ASP:H	1.73	0.53
2:G:1466:VAL:O	2:G:1470:LYS:HG2	2.08	0.53
2:G:1706:MET:O	2:G:1709:TYR:HB3	2.08	0.53
2:H:2052:LYS:HB3	2:H:2074:TRP:CZ2	2.43	0.53
2:I:246:ALA:HB3	2:I:247:PRO:HD3	1.89	0.53
2:I:268:LEU:HD12	2:I:275:LEU:CD1	2.39	0.53
2:I:578:PRO:HG3	2:I:792:LEU:O	2.08	0.53
2:I:579:ARG:HB2	2:I:591:ASP:HB3	1.91	0.53
2:J:119:VAL:HA	2:J:122:ILE:HG22	1.90	0.53
2:J:487:ILE:CB	2:J:488:PRO:HD3	2.37	0.53
2:J:612:THR:HG22	2:J:612:THR:O	2.09	0.53
2:J:1802:ALA:HB1	2:J:1804:GLN:NE2	2.17	0.53
2:K:378:ILE:HG23	2:K:391:VAL:HG13	1.90	0.53
2:K:1285:ILE:O	2:K:1288:PHE:HB3	2.08	0.53
2:K:1944:ASN:HA	2:K:1993:PHE:CD1	2.44	0.53
2:L:24:LEU:HD11	2:L:45:ALA:CB	2.38	0.53
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.74	0.53
2:L:1440:THR:O	2:L:1440:THR:HG22	2.08	0.53
2:L:1519:THR:OG1	2:L:1521:GLU:HG2	2.08	0.53
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.90	0.53
1:A:29:ILE:HD11	2:G:1923:ALA:N	2.23	0.53
1:A:628:TYR:HE1	1:A:630:LYS:HA	1.74	0.53
1:A:1011:ARG:HD2	1:A:1011:ARG:C	2.28	0.53
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.91	0.53
1:B:1602:PHE:N	1:B:1602:PHE:HD2	2.06	0.53
1:C:1052:ASP:HB3	1:C:1055:THR:O	2.08	0.53
1:D:29:ILE:HD11	2:J:1922:VAL:CA	2.38	0.53
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.38	0.53
1:D:1214:HIS:CD2	1:D:1216:SER:OG	2.56	0.53
1:D:1401:LEU:O	1:D:1401:LEU:HD22	2.08	0.53
1:E:1587:PRO:HA	1:E:1611:SER:OG	2.09	0.53
2:G:196:PHE:O	2:G:262:MET:HE1	2.09	0.53
2:G:636:TYR:N	2:G:636:TYR:HD1	2.07	0.53
2:G:1962:LEU:O	2:G:1966:ARG:HB3	2.08	0.53
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:228:LEU:O	2:I:232:HIS:HD2	1.91	0.53
2:I:1194:ARG:HD2	2:I:1598:SER:O	2.09	0.53
2:I:1760:ASN:O	2:I:1764:MET:HG2	2.08	0.53
2:J:120:HIS:CD2	2:J:137:VAL:HG11	2.43	0.53
2:J:636:TYR:N	2:J:636:TYR:HD1	2.07	0.53
2:J:855:ILE:HD13	2:J:856:THR:N	2.23	0.53
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.89	0.53
2:J:1130:ILE:HG21	2:J:1155:PRO:HB3	1.88	0.53
2:K:179:ILE:HG23	2:K:179:ILE:O	2.08	0.53
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.89	0.53
2:K:603:VAL:HG22	2:K:810:CYS:SG	2.49	0.53
2:K:1067:LEU:HB2	3:K:2101:FMN:HM71	1.89	0.53
2:K:1206:ILE:O	2:K:1209:PRO:HG3	2.09	0.53
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.43	0.53
2:L:931:TYR:O	2:L:935:VAL:HG12	2.09	0.53
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.09	0.53
1:A:532:ILE:O	1:F:575:ARG:NH2	2.41	0.53
1:A:1268:SER:CB	1:E:1389:ILE:HG13	2.14	0.53
1:A:1443:LEU:HD11	1:A:1470:ARG:HB3	1.90	0.53
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.90	0.53
1:C:992:LYS:HE2	1:F:1495:ARG:NH1	2.24	0.53
1:D:1443:LEU:HD13	1:D:1470:ARG:HB3	1.90	0.53
1:D:1444:GLN:HA	1:D:1444:GLN:OE1	2.09	0.53
1:E:36:LEU:CD2	1:E:44:ILE:HD11	2.38	0.53
1:E:573:VAL:O	1:E:577:LEU:HG	2.08	0.53
1:E:827:ARG:NH1	1:E:831:GLU:OE2	2.41	0.53
1:E:1164:ILE:HD13	1:E:1355:GLN:HG3	1.91	0.53
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.08	0.53
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.38	0.53
2:G:723:ALA:O	2:G:726:GLN:HB2	2.08	0.53
2:G:911:GLN:NE2	2:G:1065:CYS:H	2.06	0.53
2:G:962:PHE:O	2:G:966:VAL:HG23	2.09	0.53
2:G:1405:ILE:HG22	2:G:1445:THR:OG1	2.09	0.53
2:H:1802:ALA:HB1	2:H:1804:GLN:NE2	2.18	0.53
2:I:388:ASN:C	2:I:388:ASN:HD22	2.11	0.53
2:J:1726:PHE:CZ	2:J:1857:VAL:HB	2.44	0.53
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.91	0.53
2:K:1346:MET:HB2	2:K:1427:MET:HE3	1.91	0.53
2:K:1603:PRO:HB2	2:K:1644:LEU:HD21	1.90	0.53
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.38	0.53
2:L:487:ILE:CB	2:L:488:PRO:HD3	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.90	0.53
1:A:1099:GLU:HA	1:A:1149:LEU:HD23	1.90	0.53
1:B:1425:LEU:CD2	1:B:1429:ARG:HH21	2.16	0.53
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.90	0.53
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.43	0.53
1:E:421:ARG:HH22	1:E:1613:LYS:HG3	1.72	0.53
1:E:621:ASP:HB3	1:E:625:ASN:HB2	1.91	0.53
1:F:64:LYS:HE3	2:L:1923:ALA:CB	2.39	0.53
2:G:396:ILE:H	2:G:396:ILE:CD1	2.20	0.53
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.43	0.53
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.23	0.53
2:G:1067:LEU:HD12	2:G:1067:LEU:N	2.24	0.53
2:G:1154:LEU:HD13	2:G:1198:PRO:HB3	1.91	0.53
2:G:1299:VAL:CG2	2:G:1301:PHE:CE2	2.91	0.53
2:G:1404:VAL:O	2:G:1445:THR:HA	2.09	0.53
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.44	0.53
2:H:636:TYR:N	2:H:636:TYR:HD1	2.06	0.53
2:H:723:ALA:O	2:H:726:GLN:HB2	2.09	0.53
2:H:1259:LEU:HB2	2:H:1288:PHE:CE1	2.44	0.53
2:I:467:ILE:CG2	2:I:468:PRO:HD2	2.37	0.53
2:I:719:GLY:O	2:I:755:GLU:HG3	2.08	0.53
2:I:740:ILE:HD12	2:I:740:ILE:H	1.73	0.53
2:I:1305:LEU:HD12	2:I:1305:LEU:H	1.73	0.53
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.29	0.53
2:I:2052:LYS:HB3	2:I:2074:TRP:CZ2	2.44	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.91	0.53
2:J:251:PRO:CG	2:J:316:PHE:HA	2.35	0.53
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.44	0.53
2:J:783:GLY:HA2	2:J:815:ARG:HD3	1.91	0.53
2:J:1031:VAL:HG22	2:J:1041:TRP:HB3	1.91	0.53
2:J:1130:ILE:HB	2:J:1133:LEU:HD22	1.90	0.53
2:J:2052:LYS:HD3	2:J:2074:TRP:HE1	1.72	0.53
2:K:49:LYS:HA	2:K:79:TYR:HE1	1.73	0.53
2:K:258:LEU:CD1	2:K:291:VAL:HG13	2.39	0.53
2:K:487:ILE:CB	2:K:488:PRO:HD3	2.37	0.53
2:K:663:ILE:H	2:K:663:ILE:CD1	2.21	0.53
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.44	0.53
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.39	0.53
2:K:979:LEU:HD21	2:K:999:ALA:CB	2.37	0.53
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.63	0.53
2:L:119:VAL:HA	2:L:122:ILE:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:228:LEU:O	2:L:232:HIS:HD2	1.92	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:1097:PHE:CD2	2:L:1100:ARG:NH1	2.77	0.53
1:A:36:LEU:CD2	1:A:44:ILE:HD11	2.39	0.53
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.34	0.53
1:A:1388:LYS:HD3	1:E:1692:GLN:NE2	2.23	0.53
1:E:628:TYR:CE1	1:E:630:LYS:HG2	2.44	0.53
1:F:397:ARG:HH11	1:F:692:THR:HG21	1.73	0.53
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	1.90	0.53
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.09	0.53
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.43	0.53
2:J:1475:LEU:HA	2:J:1526:ALA:HB2	1.91	0.53
2:K:480:GLU:O	2:K:480:GLU:HG2	2.08	0.53
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.44	0.53
1:A:549:TYR:O	1:A:553:ARG:HB3	2.08	0.53
1:D:961:ALA:O	2:J:969:ARG:NH1	2.42	0.53
1:E:397:ARG:HH11	1:E:692:THR:HG21	1.73	0.53
1:F:573:VAL:O	1:F:577:LEU:HG	2.09	0.53
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.38	0.53
2:G:24:LEU:HD11	2:G:45:ALA:HB1	1.91	0.53
2:G:578:PRO:HG3	2:G:792:LEU:O	2.08	0.53
2:G:635:TYR:CB	2:G:641:MET:HG3	2.38	0.53
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.91	0.53
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.49	0.53
2:G:2033:SER:HA	2:G:2036:ILE:HD12	1.89	0.53
2:H:600:VAL:HG13	2:H:601:PRO:N	2.24	0.53
2:I:101:VAL:O	2:I:105:ILE:HG12	2.09	0.53
2:I:289:ILE:HG22	2:I:490:LEU:HD22	1.90	0.53
2:I:447:ALA:O	2:I:451:ILE:HG13	2.09	0.53
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	2.24	0.53
2:I:1904:VAL:HG22	2:I:1939:LEU:HD22	1.92	0.53
2:J:416:GLN:HA	2:J:419:ILE:HG13	1.91	0.53
2:J:472:THR:HG23	2:J:499:VAL:HA	1.90	0.53
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.23	0.53
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.09	0.53
2:K:268:LEU:HD12	2:K:275:LEU:CD1	2.39	0.53
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.68	0.53
2:K:486:ILE:O	2:K:490:LEU:HG	2.09	0.53
2:K:612:THR:CG2	2:K:629:GLU:O	2.57	0.53
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.23	0.53
2:K:1767:GLU:HB2	2:K:2016:PRO:HG3	1.91	0.53

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:108:GLU:HA	2:L:111:ARG:HD2	1.90	0.52
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.38	0.52
2:L:699:ILE:HD12	2:L:699:ILE:N	2.24	0.52
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.91	0.52
2:L:1516:GLU:HA	2:L:1521:GLU:O	2.09	0.52
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.39	0.52
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.43	0.52
1:B:527:ALA:HB2	1:B:637:LEU:HD22	1.91	0.52
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.22	0.52
1:D:788:ARG:HB2	1:D:790:TYR:CD2	2.44	0.52
1:D:883:LEU:N	1:D:883:LEU:HD23	2.24	0.52
1:D:1078:ILE:HG21	1:D:1352:MET:HE2	1.91	0.52
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.23	0.52
1:E:1047:TYR:CZ	1:E:1058:PRO:HB3	2.44	0.52
1:E:1444:GLN:OE1	1:E:1444:GLN:HA	2.08	0.52
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.52
1:F:918:LEU:O	1:F:921:GLU:HG3	2.10	0.52
2:G:1194:ARG:NH2	2:G:1601:ASN:OD1	2.42	0.52
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.38	0.52
2:I:452:LEU:HD21	2:I:488:PRO:HA	1.91	0.52
2:I:1154:LEU:HD13	2:I:1198:PRO:HB3	1.92	0.52
2:I:1726:PHE:CZ	2:I:1857:VAL:HB	2.44	0.52
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.90	0.52
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.44	0.52
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.24	0.52
2:L:24:LEU:HD11	2:L:45:ALA:HB1	1.90	0.52
2:L:126:VAL:HG12	2:L:127:ALA:N	2.25	0.52
2:L:189:ILE:HD12	2:L:256:VAL:HG13	1.92	0.52
2:L:616:ASP:OD2	2:L:823:HIS:CE1	2.59	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:A:573:VAL:O	1:A:577:LEU:HG	2.09	0.52
1:A:613:PRO:C	1:A:615:LEU:H	2.13	0.52
1:A:1692:GLN:HE22	1:E:1388:LYS:HD3	1.75	0.52
1:B:11:TYR:O	1:B:15:VAL:HG23	2.08	0.52
1:B:1381:MET:HG2	1:B:1382:THR:N	2.22	0.52
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.05	0.52
1:C:498:THR:HG22	1:C:508:TYR:HD1	1.73	0.52
1:C:1099:GLU:HA	1:C:1149:LEU:HD23	1.91	0.52
1:E:1475:GLU:HB3	1:E:1479:ARG:NH2	2.24	0.52
1:F:445:LEU:HD11	1:F:481:LEU:HD11	1.90	0.52
1:F:498:THR:HG21	1:F:858:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:619:LYS:HG2	1:F:620:LYS:N	2.25	0.52
1:F:1523:HIS:HB2	1:F:1624:SER:HA	1.91	0.52
2:G:31:LEU:HD13	2:G:75:LEU:HD21	1.91	0.52
2:G:49:LYS:HA	2:G:79:TYR:HE1	1.73	0.52
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.24	0.52
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.45	0.52
2:G:779:GLY:HA3	2:G:811:MET:CE	2.39	0.52
2:G:1031:VAL:HG22	2:G:1041:TRP:HB3	1.91	0.52
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.52
2:H:246:ALA:HB3	2:H:247:PRO:HD3	1.91	0.52
2:H:645:ILE:HD13	2:H:687:ILE:HD11	1.91	0.52
2:H:930:THR:HG22	2:H:933:GLU:H	1.74	0.52
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.40	0.52
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.90	0.52
2:I:138:ARG:HB3	2:I:192:THR:HG23	1.90	0.52
2:I:1091:HIS:O	2:I:1094:HIS:HB2	2.09	0.52
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.24	0.52
2:I:1902:TYR:OH	2:I:1966:ARG:HB2	2.09	0.52
2:J:1067:LEU:HD12	2:J:1067:LEU:N	2.24	0.52
2:J:1227:LYS:HG2	2:J:1228:LEU:N	2.24	0.52
2:J:2052:LYS:H	2:J:2052:LYS:CE	2.09	0.52
2:K:24:LEU:HD11	2:K:45:ALA:HB1	1.89	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.24	0.52
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.45	0.52
2:L:208:LEU:HA	2:L:211:LEU:HD12	1.92	0.52
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.44	0.52
2:L:1247:PHE:HB3	2:L:1256:VAL:CG1	2.39	0.52
1:A:11:TYR:O	1:A:15:VAL:HG23	2.09	0.52
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.91	0.52
1:A:653:LYS:HD3	1:A:742:TYR:HE2	1.73	0.52
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.24	0.52
1:B:415:TYR:O	1:B:419:PHE:HD1	1.91	0.52
1:B:613:PRO:O	1:B:615:LEU:N	2.43	0.52
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.44	0.52
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.37	0.52
1:C:1574:LEU:O	1:C:1578:LEU:HG	2.10	0.52
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.90	0.52
1:E:2:ARG:HB2	1:E:5:VAL:HB	1.91	0.52
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.90	0.52
1:E:619:LYS:HG2	1:E:620:LYS:N	2.23	0.52
1:E:636:TYR:HB2	1:E:888:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1565:PRO:O	1:E:1567:GLY:N	2.42	0.52
1:F:788:ARG:HB2	1:F:790:TYR:CD2	2.44	0.52
1:F:1443:LEU:HD13	1:F:1470:ARG:HB3	1.91	0.52
2:G:179:ILE:HG23	2:G:179:ILE:O	2.09	0.52
2:G:251:PRO:CG	2:G:316:PHE:HA	2.38	0.52
2:G:1335:PHE:HE1	2:G:1629:ILE:HD13	1.73	0.52
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.34	0.52
2:H:101:VAL:O	2:H:105:ILE:HG12	2.09	0.52
2:H:119:VAL:HA	2:H:122:ILE:HG22	1.90	0.52
2:H:979:LEU:HD21	2:H:999:ALA:CB	2.39	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:I:24:LEU:HD11	2:I:45:ALA:HB1	1.90	0.52
2:I:1142:ILE:HD11	2:I:1209:PRO:HB3	1.90	0.52
2:I:1745:LEU:HB3	2:I:1799:LEU:HD22	1.90	0.52
2:J:465:LEU:HB2	2:J:479:ARG:HG2	1.91	0.52
2:J:1741:ASN:HD21	2:J:1798:GLY:HA3	1.75	0.52
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.08	0.52
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.92	0.52
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.44	0.52
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.44	0.52
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.92	0.52
2:L:1008:ILE:HD12	2:L:1013:VAL:HG22	1.91	0.52
2:L:1138:ASP:HB2	2:L:1140:ASN:H	1.73	0.52
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.74	0.52
2:L:1315:ILE:H	2:L:1315:ILE:HD12	1.73	0.52
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.69	0.52
1:A:811:ASP:OD1	1:A:811:ASP:N	2.43	0.52
1:A:1230:SER:HA	1:A:1311:GLN:NE2	2.21	0.52
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.91	0.52
1:B:1443:LEU:HD13	1:B:1470:ARG:HB3	1.90	0.52
1:B:1672:GLY:HA3	1:B:1678:LEU:HD23	1.92	0.52
1:C:28:TRP:CE2	1:C:53:LEU:HD22	2.45	0.52
1:C:335:LEU:C	1:C:335:LEU:HD12	2.30	0.52
1:C:1565:PRO:O	1:C:1566:LYS:C	2.48	0.52
1:D:1610:ARG:NH1	1:D:1610:ARG:CG	2.61	0.52
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.09	0.52
1:F:918:LEU:HA	1:F:921:GLU:HG2	1.92	0.52
1:F:1230:SER:HA	1:F:1311:GLN:NE2	2.23	0.52
2:G:1247:PHE:HB3	2:G:1256:VAL:CG1	2.39	0.52
2:G:1335:PHE:CE1	2:G:1629:ILE:HD11	2.44	0.52
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:663:ILE:H	2:H:663:ILE:CD1	2.23	0.52
2:H:2033:SER:HA	2:H:2036:ILE:HD12	1.91	0.52
2:I:487:ILE:CB	2:I:488:PRO:HD3	2.38	0.52
2:I:652:ILE:HG23	2:I:653:PRO:HD2	1.90	0.52
2:I:676:LEU:HD23	2:I:679:ARG:NH2	2.23	0.52
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.44	0.52
2:J:378:ILE:HG23	2:J:391:VAL:HG13	1.92	0.52
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.39	0.52
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.74	0.52
2:J:1881:TYR:OH	2:J:2009:PHE:HE1	1.93	0.52
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.38	0.52
2:K:1915:LEU:HB2	2:K:1935:ALA:HB1	1.90	0.52
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.08	0.52
2:L:283:THR:HG23	2:L:470:TYR:O	2.09	0.52
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.40	0.52
2:L:1091:HIS:O	2:L:1094:HIS:HB2	2.10	0.52
1:A:621:ASP:HB3	1:A:625:ASN:HB2	1.91	0.52
1:A:918:LEU:HA	1:A:921:GLU:HG2	1.92	0.52
1:B:476:ASN:O	1:B:480:VAL:HG23	2.10	0.52
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.09	0.52
1:C:1602:PHE:N	1:C:1602:PHE:HD2	2.07	0.52
1:D:427:ARG:HD2	1:D:490:VAL:HG12	1.91	0.52
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.45	0.52
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.92	0.52
1:E:653:LYS:HD3	1:E:742:TYR:HE2	1.74	0.52
2:G:440:HIS:CD2	2:G:497:ASP:O	2.63	0.52
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.92	0.52
2:H:636:TYR:N	2:H:636:TYR:CD1	2.77	0.52
2:I:60:THR:HG22	2:I:62:GLU:H	1.75	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.39	0.52
2:I:472:THR:HG23	2:I:499:VAL:HA	1.91	0.52
2:I:606:ALA:HB2	2:I:811:MET:CG	2.38	0.52
2:I:613:VAL:N	2:I:614:PRO:HD3	2.25	0.52
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.38	0.52
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.52
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.44	0.52
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.91	0.52
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.52
2:K:1468:ARG:CG	2:K:1468:ARG:NH1	2.52	0.52
2:L:1579:ASN:O	2:L:1583:VAL:HG23	2.10	0.52
1:C:36:LEU:CD2	1:C:44:ILE:HD11	2.38	0.52

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.40	0.52
1:F:651:GLN:HA	1:F:677:GLY:HA3	1.92	0.52
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.08	0.52
2:G:99:LEU:O	2:G:103:LYS:HG3	2.10	0.52
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.40	0.52
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.09	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.44	0.52
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.09	0.52
2:H:134:ILE:HG12	2:H:545:ILE:HD12	1.92	0.52
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.24	0.52
2:H:1466:VAL:O	2:H:1470:LYS:HG2	2.10	0.52
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.23	0.52
2:H:1871:VAL:HG23	2:H:2003:VAL:HG13	1.92	0.52
2:I:1706:MET:O	2:I:1709:TYR:HB3	2.09	0.52
2:J:179:ILE:HG23	2:J:179:ILE:O	2.09	0.52
2:J:289:ILE:HG22	2:J:490:LEU:HD22	1.92	0.52
2:J:636:TYR:N	2:J:636:TYR:CD1	2.78	0.52
2:J:1247:PHE:HB3	2:J:1256:VAL:CG1	2.39	0.52
2:J:1340:LYS:HE3	2:L:373:PRO:HG2	1.92	0.52
2:K:99:LEU:O	2:K:103:LYS:HG3	2.10	0.52
2:K:120:HIS:CD2	2:K:137:VAL:HG11	2.45	0.52
2:K:189:ILE:HD13	2:K:259:ALA:HB3	1.92	0.52
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.92	0.52
2:L:384:ASN:HB3	2:L:527:LEU:HD11	1.91	0.52
2:L:910:PHE:HD2	2:L:912:LYS:H	1.57	0.52
2:L:1871:VAL:CG1	2:L:1872:GLU:N	2.73	0.52
1:A:648:LEU:HD12	1:A:649:THR:N	2.25	0.52
1:A:995:VAL:CG1	1:A:1375:ILE:HG23	2.41	0.52
1:A:1394:PRO:HB3	1:A:1627:PHE:CE2	2.45	0.52
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.91	0.52
1:B:577:LEU:HD23	1:B:584:ILE:HG21	1.92	0.52
1:C:1268:SER:HB3	1:F:1389:ILE:CG1	2.10	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
1:F:843:VAL:HG22	1:F:843:VAL:O	2.09	0.52
2:G:1888:PRO:HB3	2:G:1895:PHE:CD1	2.42	0.52
2:H:179:ILE:HG23	2:H:179:ILE:O	2.10	0.52
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.52
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.45	0.52
2:H:1977:ARG:HD2	2:H:1978:LYS:HG3	1.92	0.52
2:I:215:TRP:CE3	2:I:215:TRP:N	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:910:PHE:HD2	2:I:912:LYS:H	1.58	0.52
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.38	0.52
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.39	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:J:1223:SER:CB	2:J:1226:ALA:HB3	2.39	0.52
2:J:1405:ILE:HA	2:J:1445:THR:OG1	2.10	0.52
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.09	0.52
2:K:582:LYS:HA	2:K:587:GLN:O	2.10	0.52
2:K:621:THR:HG21	2:K:628:ILE:HD12	1.91	0.52
2:K:2033:SER:HA	2:K:2036:ILE:HD12	1.91	0.52
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.44	0.52
1:A:621:ASP:HB3	1:A:625:ASN:H	1.75	0.51
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.40	0.51
1:A:1574:LEU:O	1:A:1578:LEU:HG	2.09	0.51
1:B:1157:ASP:O	1:B:1159:LEU:HD12	2.10	0.51
1:C:653:LYS:HD3	1:C:742:TYR:HE2	1.75	0.51
1:C:1574:LEU:CD1	1:C:1622:VAL:HG11	2.39	0.51
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.93	0.51
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.38	0.51
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.09	0.51
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.91	0.51
2:G:636:TYR:N	2:G:636:TYR:CD1	2.78	0.51
2:H:190:TYR:HE1	2:H:201:ILE:HG21	1.75	0.51
2:H:1375:HIS:ND1	2:H:1610:MET:HG2	2.24	0.51
2:H:1543:TYR:HD2	2:H:1544:LEU:HD23	1.74	0.51
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.44	0.51
2:I:607:GLY:HA2	2:I:612:THR:HG21	1.91	0.51
2:I:645:ILE:HD13	2:I:687:ILE:HD11	1.92	0.51
2:I:855:ILE:HD13	2:I:856:THR:N	2.23	0.51
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.75	0.51
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.23	0.51
2:J:581:VAL:HG11	2:J:1113:ILE:HD11	1.92	0.51
2:J:895:LEU:HD13	2:J:1034:LEU:HB3	1.92	0.51
2:K:855:ILE:HD13	2:K:856:THR:N	2.22	0.51
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.51
2:L:331:LEU:HD22	2:L:396:ILE:HG13	1.92	0.51
2:L:1475:LEU:HA	2:L:1526:ALA:HB2	1.91	0.51
1:A:457:THR:HG22	1:A:464:GLN:HA	1.91	0.51
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.10	0.51
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.30	0.51
1:B:653:LYS:HD3	1:B:742:TYR:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:718:SER:HA	1:E:378:GLU:OE1	2.10	0.51
1:B:1041:PRO:HA	1:B:1046:PRO:HA	1.92	0.51
1:C:1078:ILE:HG21	1:C:1352:MET:HE2	1.91	0.51
1:D:1199:LEU:C	1:D:1201:SER:H	2.12	0.51
1:D:1273:ILE:HG13	1:D:1273:ILE:O	2.10	0.51
1:E:15:VAL:HG11	2:K:2022:LEU:CD2	2.41	0.51
1:E:1378:ILE:HD11	1:E:1642:LEU:HB2	1.93	0.51
1:F:1444:GLN:OE1	1:F:1444:GLN:HA	2.10	0.51
2:G:227:ILE:HD13	2:G:252:LEU:HD13	1.92	0.51
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.75	0.51
2:G:930:THR:HG23	2:G:933:GLU:H	1.76	0.51
2:G:1594:ARG:NH1	2:G:1594:ARG:CG	2.62	0.51
2:G:1723:ASP:OD1	2:G:1735:ILE:HG13	2.10	0.51
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.11	0.51
2:H:141:TYR:OH	2:H:267:THR:HG23	2.09	0.51
2:H:1475:LEU:HA	2:H:1526:ALA:HB2	1.91	0.51
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.92	0.51
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.92	0.51
2:I:1259:LEU:HB2	2:I:1288:PHE:CE1	2.45	0.51
2:I:1305:LEU:HD23	2:I:1366:ILE:CG1	2.41	0.51
2:I:1375:HIS:ND1	2:I:1610:MET:HG2	2.25	0.51
2:I:1694:PHE:HD2	2:I:1843:ALA:CB	2.22	0.51
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.10	0.51
2:J:979:LEU:HD21	2:J:999:ALA:CB	2.41	0.51
2:J:1103:TYR:O	2:J:1106:LYS:HB2	2.11	0.51
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.45	0.51
2:J:1315:ILE:H	2:J:1315:ILE:HD12	1.76	0.51
2:J:1440:THR:O	2:J:1440:THR:HG22	2.10	0.51
2:K:1334:ALA:O	2:K:1342:PHE:HA	2.10	0.51
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.10	0.51
2:L:1621:GLU:OE2	2:L:1629:ILE:HG23	2.10	0.51
1:A:12:THR:O	1:A:16:GLU:HG2	2.11	0.51
1:A:378:GLU:OE1	1:F:718:SER:HA	2.10	0.51
1:A:498:THR:HG21	1:A:858:LEU:O	2.09	0.51
1:A:535:TYR:CE1	1:F:580:ASN:CB	2.93	0.51
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.41	0.51
1:A:1161:ALA:O	1:A:1163:GLN:HG3	2.10	0.51
1:A:1264:MET:HB3	1:E:1390:GLY:O	2.10	0.51
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.36	0.51
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.46	0.51
1:C:1264:MET:HB3	1:F:1390:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:11:TYR:O	1:D:15:VAL:HG23	2.10	0.51
1:D:476:ASN:O	1:D:480:VAL:HG23	2.10	0.51
1:E:616:HIS:C	1:E:617:LEU:HD23	2.30	0.51
1:E:1067:LYS:HB3	1:E:1068:TYR:CD1	2.45	0.51
2:G:979:LEU:HD21	2:G:999:ALA:CB	2.39	0.51
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.74	0.51
2:G:1227:LYS:HG2	2:G:1228:LEU:N	2.26	0.51
2:G:1259:LEU:HB2	2:G:1288:PHE:CE1	2.46	0.51
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.24	0.51
2:G:1516:GLU:HA	2:G:1521:GLU:O	2.09	0.51
2:G:1887:ASN:ND2	2:G:1890:ARG:HG3	2.25	0.51
2:G:1915:LEU:HB2	2:G:1935:ALA:HB1	1.93	0.51
2:G:2050:ILE:O	2:G:2050:ILE:HG12	2.09	0.51
2:H:60:THR:HG22	2:H:62:GLU:H	1.75	0.51
2:H:521:VAL:O	2:H:526:VAL:HG21	2.10	0.51
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.92	0.51
2:H:1156:ASP:CB	2:H:1159:SER:H	2.19	0.51
2:I:1631:ARG:HA	2:I:1686:GLU:HB2	1.92	0.51
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.92	0.51
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.91	0.51
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.92	0.51
2:J:916:GLY:C	2:J:929:MET:HE2	2.31	0.51
2:J:949:ARG:HH22	2:J:1052:ASP:CG	2.14	0.51
2:J:962:PHE:O	2:J:965:ARG:HB3	2.11	0.51
2:K:108:GLU:HA	2:K:111:ARG:HD2	1.93	0.51
2:K:1330:ASN:HD22	2:K:1618:SER:HB2	1.76	0.51
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.40	0.51
2:K:2052:LYS:HB3	2:K:2074:TRP:CZ2	2.45	0.51
2:L:279:PHE:HB2	2:L:467:ILE:HD12	1.92	0.51
2:L:447:ALA:O	2:L:451:ILE:HG13	2.10	0.51
2:L:521:VAL:O	2:L:526:VAL:HG21	2.09	0.51
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.92	0.51
2:L:1619:LEU:O	2:L:1623:TRP:HB2	2.09	0.51
1:A:342:ILE:HG22	1:D:335:LEU:HD13	1.93	0.51
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.44	0.51
1:B:1160:VAL:HG23	1:B:1327:ALA:HB2	1.91	0.51
1:B:1444:GLN:O	1:B:1447:VAL:HB	2.10	0.51
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.78	0.51
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.09	0.51
1:E:1401:LEU:O	1:E:1401:LEU:HD22	2.10	0.51
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1492:LEU:HD22	2:G:1511:GLY:HA3	1.93	0.51
2:H:775:VAL:O	2:H:777:VAL:HG23	2.11	0.51
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.74	0.51
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.44	0.51
2:H:1259:LEU:HB2	2:H:1288:PHE:CD1	2.46	0.51
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.10	0.51
2:H:1516:GLU:HA	2:H:1521:GLU:O	2.11	0.51
2:H:1767:GLU:HB2	2:H:2016:PRO:HG3	1.91	0.51
2:I:108:GLU:HA	2:I:111:ARG:HD2	1.93	0.51
2:I:290:VAL:HA	2:I:490:LEU:CD1	2.37	0.51
2:I:1346:MET:HG2	2:I:1617:ARG:NH2	2.25	0.51
2:J:616:ASP:OD2	2:J:823:HIS:CE1	2.62	0.51
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.58	0.51
2:K:24:LEU:CD1	2:K:45:ALA:HB1	2.40	0.51
2:K:170:TYR:CE1	2:K:510:ALA:HB2	2.46	0.51
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.08	0.51
2:K:1154:LEU:HD13	2:K:1198:PRO:HB3	1.93	0.51
2:K:1510:ILE:HA	2:K:1528:VAL:O	2.10	0.51
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.11	0.51
1:A:75:GLN:HE21	2:I:335:THR:HG23	1.76	0.51
1:B:628:TYR:CE1	1:B:630:LYS:HG2	2.45	0.51
1:B:788:ARG:HB2	1:B:790:TYR:CD2	2.45	0.51
1:C:17:LEU:HD22	2:I:2041:PRO:HB3	1.93	0.51
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.92	0.51
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.42	0.51
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.40	0.51
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.09	0.51
1:F:22:PHE:O	2:L:2010:LEU:HD12	2.10	0.51
1:F:1470:ARG:O	1:F:1474:ILE:HG13	2.09	0.51
2:G:792:LEU:O	2:G:792:LEU:HD12	2.09	0.51
2:G:1543:TYR:HD2	2:G:1544:LEU:HD23	1.74	0.51
2:G:1694:PHE:HD2	2:G:1843:ALA:CB	2.23	0.51
2:H:608:MET:H	2:H:612:THR:CB	2.24	0.51
2:H:617:PHE:HD1	2:H:822:ALA:HA	1.76	0.51
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.92	0.51
2:I:486:ILE:O	2:I:490:LEU:HG	2.10	0.51
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.93	0.51
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.10	0.51
2:I:1863:ARG:HB2	2:I:2017:PHE:HE1	1.74	0.51
2:J:350:MET:CE	2:J:435:ILE:HD12	2.41	0.51
2:K:119:VAL:HA	2:K:122:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:182:TYR:CD1	2:K:183:PHE:N	2.79	0.51
2:K:350:MET:HG3	2:K:435:ILE:HB	1.92	0.51
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.76	0.51
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.91	0.51
2:L:486:ILE:O	2:L:490:LEU:HG	2.10	0.51
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.45	0.51
2:L:699:ILE:HD12	2:L:699:ILE:H	1.75	0.51
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.26	0.51
1:A:967:PHE:CE2	1:A:1374:PRO:HG3	2.46	0.51
1:A:1047:TYR:CZ	1:A:1058:PRO:HB3	2.46	0.51
1:B:673:LEU:HD21	1:B:884:MET:HE3	1.93	0.51
1:B:918:LEU:HA	1:B:921:GLU:HG2	1.93	0.51
1:C:1067:LYS:HB3	1:C:1068:TYR:CD1	2.46	0.51
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.51
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.10	0.51
1:F:833:TRP:CH2	1:F:839:ILE:HD11	2.45	0.51
1:F:999:LEU:HD11	1:F:1575:ASN:HB3	1.91	0.51
2:G:170:TYR:CE1	2:G:510:ALA:HB2	2.46	0.51
2:G:208:LEU:HA	2:G:211:LEU:HD12	1.93	0.51
2:H:350:MET:HG3	2:H:435:ILE:HB	1.92	0.51
2:H:1175:MET:HE3	2:H:1192:LEU:HD11	1.91	0.51
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.45	0.51
2:H:1887:ASN:ND2	2:H:1890:ARG:HG3	2.25	0.51
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.41	0.51
2:J:350:MET:HG3	2:J:435:ILE:HB	1.92	0.51
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.41	0.51
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.92	0.51
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	2.10	0.51
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.25	0.51
2:L:268:LEU:HD12	2:L:275:LEU:CD1	2.41	0.51
2:L:378:ILE:HG23	2:L:391:VAL:HG13	1.92	0.51
2:L:388:ASN:HD22	2:L:388:ASN:C	2.13	0.51
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.40	0.51
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.46	0.51
1:A:1602:PHE:N	1:A:1602:PHE:HD2	2.09	0.51
1:A:1610:ARG:NH1	1:A:1610:ARG:CG	2.58	0.51
1:A:1638:HIS:ND1	1:A:1639:PRO:HD2	2.26	0.51
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.92	0.51
1:B:430:VAL:CG1	1:B:490:VAL:HG11	2.40	0.51
1:C:18:LEU:HD21	2:I:1844:LEU:HD11	1.92	0.51
1:C:619:LYS:HG2	1:C:620:LYS:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1041:PRO:HA	1:C:1046:PRO:HA	1.93	0.51
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.11	0.51
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.45	0.51
1:D:553:ARG:HH21	1:D:567:ASN:HD21	1.59	0.51
1:D:1071:TYR:C	1:D:1071:TYR:CD2	2.84	0.51
1:D:1705:GLN:NE2	1:D:1709:GLY:HA2	2.25	0.51
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.46	0.51
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.10	0.51
1:F:575:ARG:HG2	1:F:579:MET:SD	2.51	0.51
2:G:743:TRP:CE2	2:G:761:ILE:HD11	2.45	0.51
2:G:1091:HIS:O	2:G:1094:HIS:HB2	2.11	0.51
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.92	0.51
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.11	0.51
2:G:1678:VAL:O	2:G:1679:LEU:HD23	2.11	0.51
2:H:49:LYS:HA	2:H:79:TYR:HE1	1.76	0.51
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.91	0.51
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.92	0.51
2:I:455:VAL:O	2:I:455:VAL:HG12	2.10	0.51
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.11	0.51
2:J:145:ALA:CB	2:J:195:SER:HB3	2.40	0.51
2:J:190:TYR:HE1	2:J:201:ILE:HG21	1.75	0.51
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.25	0.51
2:J:1492:LEU:HD22	2:J:1511:GLY:HA3	1.91	0.51
2:J:1896:THR:CG2	2:J:1897:GLU:N	2.73	0.51
2:K:174:GLY:H	2:K:517:GLY:CA	2.24	0.51
2:K:1137:ARG:HB3	2:K:1142:ILE:HG23	1.93	0.51
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.41	0.51
2:L:1492:LEU:HD22	2:L:1511:GLY:HA3	1.92	0.51
2:L:1622:THR:O	2:L:1626:GLU:HA	2.11	0.51
1:A:1672:GLY:HA3	1:A:1678:LEU:HD23	1.92	0.51
1:B:24:MET:HE2	2:H:2043:VAL:HG13	1.92	0.51
1:B:43:ARG:NH1	2:H:1687:GLN:HE21	2.09	0.51
1:B:1303:LEU:HD23	1:B:1361:VAL:HB	1.92	0.51
1:C:1199:LEU:C	1:C:1201:SER:H	2.14	0.51
1:C:1425:LEU:CD2	1:C:1429:ARG:HH21	2.19	0.51
1:E:24:MET:HE2	2:K:2043:VAL:HG13	1.92	0.51
1:E:339:GLN:O	1:E:343:ILE:HG13	2.11	0.51
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.45	0.51
1:E:1704:THR:CG2	1:E:1714:PRO:HG3	2.41	0.51
1:F:432:GLN:O	1:F:436:ILE:HG13	2.11	0.51
2:G:699:ILE:HD12	2:G:699:ILE:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.51
2:G:1767:GLU:HB2	2:G:2016:PRO:CG	2.37	0.51
2:G:2005:PHE:HA	2:G:2010:LEU:CD1	2.29	0.51
2:H:108:GLU:HA	2:H:111:ARG:HD2	1.92	0.51
2:H:487:ILE:CB	2:H:488:PRO:HD3	2.38	0.51
2:H:1706:MET:O	2:H:1709:TYR:HB3	2.11	0.51
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.72	0.51
2:I:1137:ARG:HB3	2:I:1142:ILE:HG23	1.93	0.51
2:I:2052:LYS:H	2:I:2052:LYS:CE	2.10	0.51
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.68	0.51
2:J:1475:LEU:HD23	2:J:1476:ASP:N	2.25	0.51
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.92	0.51
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.51
2:K:1519:THR:OG1	2:K:1521:GLU:HG2	2.10	0.51
2:L:487:ILE:HB	2:L:488:PRO:CD	2.40	0.51
2:L:1154:LEU:HD13	2:L:1198:PRO:HB3	1.92	0.51
2:L:1259:LEU:HB2	2:L:1288:PHE:CD1	2.44	0.51
1:B:1097:LEU:CD1	1:D:1149:LEU:HD12	2.41	0.51
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	2.11	0.51
1:B:1534:GLU:HG2	1:B:1625:PHE:HE1	1.75	0.51
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.11	0.51
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.58	0.51
1:C:404:ASN:HD21	1:C:1607:TYR:H	1.56	0.51
1:C:1270:THR:HA	1:F:1386:THR:O	2.09	0.51
1:D:421:ARG:HH22	1:D:1613:LYS:CB	2.24	0.51
1:D:524:LYS:O	1:D:528:GLU:HG3	2.10	0.51
1:D:574:ILE:HG23	1:D:584:ILE:HD12	1.92	0.51
1:D:1209:PHE:CZ	1:D:1301:VAL:HG21	2.46	0.51
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.39	0.51
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	1.93	0.51
2:G:215:TRP:CE3	2:G:215:TRP:N	2.79	0.51
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.26	0.51
2:H:268:LEU:HD12	2:H:275:LEU:CD1	2.40	0.51
2:H:1694:PHE:HD2	2:H:1843:ALA:CB	2.24	0.51
2:I:458:MET:C	2:I:459:LYS:HG3	2.31	0.51
2:I:581:VAL:HG11	2:I:1113:ILE:HD11	1.93	0.51
2:I:1353:GLY:CA	2:I:1397:THR:HG21	2.41	0.51
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.46	0.51
2:J:1904:VAL:HG22	2:J:1939:LEU:HD22	1.92	0.51
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.41	0.51
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.41	0.51
2:K:1217:ILE:HD12	2:K:1234:ILE:HD12	1.93	0.51
2:K:1348:PHE:O	2:K:1351:VAL:HG12	2.11	0.51
2:K:1475:LEU:HD23	2:K:1476:ASP:N	2.26	0.51
2:K:1694:PHE:HD2	2:K:1843:ALA:CB	2.24	0.51
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.45	0.51
2:L:581:VAL:HG11	2:L:1113:ILE:HD11	1.92	0.51
2:L:649:GLU:HG3	2:L:650:LYS:HG3	1.92	0.51
2:L:855:ILE:HD13	2:L:856:THR:N	2.22	0.51
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.46	0.51
2:L:1694:PHE:HD2	2:L:1843:ALA:CB	2.24	0.51
1:A:754:ARG:HH21	1:A:762:LYS:HD3	1.76	0.51
1:B:621:ASP:HB3	1:B:625:ASN:HB2	1.93	0.51
1:C:1386:THR:O	1:F:1270:THR:HA	2.11	0.51
1:D:415:TYR:CE2	1:D:1614:THR:HB	2.46	0.51
1:D:628:TYR:HE1	1:D:630:LYS:HA	1.76	0.51
1:D:995:VAL:HG13	1:D:1375:ILE:HG23	1.93	0.51
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.93	0.51
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.46	0.51
1:E:788:ARG:HB2	1:E:790:TYR:CD2	2.45	0.51
2:G:1189:THR:O	2:G:1191:PRO:HD3	2.11	0.51
2:G:1200:ARG:HD3	2:G:1200:ARG:N	2.24	0.51
2:G:1884:CYS:HB3	2:G:1936:LEU:CD1	2.40	0.51
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.37	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.94	0.51
2:H:129:ILE:HG21	2:H:132:LYS:HG3	1.93	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.11	0.51
2:I:420:PRO:HB2	2:I:423:GLN:HB2	1.93	0.51
2:I:649:GLU:HG3	2:I:650:LYS:HG3	1.93	0.51
2:I:1175:MET:HE1	2:I:1192:LEU:HD11	1.92	0.51
2:J:170:TYR:CE1	2:J:510:ALA:HB2	2.46	0.51
2:J:452:LEU:HD21	2:J:488:PRO:HA	1.92	0.51
2:K:215:TRP:CE3	2:K:215:TRP:N	2.79	0.51
2:K:664:TYR:CD1	2:K:670:MET:HE1	2.45	0.51
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.26	0.51
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.46	0.51
1:B:1067:LYS:HB3	1:B:1068:TYR:CD1	2.47	0.50
1:B:1106:LEU:HD13	1:B:1142:LEU:HD13	1.93	0.50
1:B:1603:ASP:HB2	1:B:1604:TYR:CD2	2.46	0.50
1:C:768:ARG:HA	1:C:772:THR:OG1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:ILE:HG21	2:J:1821:MET:HE1	1.93	0.50
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	1.92	0.50
1:E:701:ARG:HH11	1:E:1610:ARG:NH2	2.09	0.50
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.92	0.50
1:E:965:TYR:CE1	1:E:1199:LEU:CD2	2.93	0.50
1:E:1068:TYR:O	1:E:1072:ILE:HG13	2.10	0.50
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.76	0.50
1:F:1099:GLU:HA	1:F:1149:LEU:HD23	1.93	0.50
1:F:1303:LEU:HD23	1:F:1361:VAL:HB	1.92	0.50
2:G:664:TYR:CD1	2:G:670:MET:HE1	2.46	0.50
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.92	0.50
2:H:300:THR:HG22	2:H:302:ASP:H	1.75	0.50
2:H:699:ILE:HD12	2:H:699:ILE:H	1.76	0.50
2:J:486:ILE:O	2:J:490:LEU:HG	2.11	0.50
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.93	0.50
2:J:1442:TYR:CA	2:J:1445:THR:HG22	2.40	0.50
2:K:1067:LEU:HD12	2:K:1067:LEU:H	1.76	0.50
2:L:845:ASN:HD21	2:L:849:ARG:HH11	1.59	0.50
2:L:1475:LEU:HD23	2:L:1476:ASP:N	2.26	0.50
2:L:1881:TYR:CG	2:L:2004:PRO:HG3	2.46	0.50
1:A:1160:VAL:HG23	1:A:1327:ALA:HB2	1.92	0.50
1:A:1168:TRP:HE1	1:A:1173:TYR:HE1	1.58	0.50
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.11	0.50
1:A:1363:MET:HE3	1:A:1368:ALA:HA	1.94	0.50
1:B:636:TYR:HB2	1:B:888:ILE:HD11	1.91	0.50
1:C:694:TYR:HD2	1:C:695:TYR:CD1	2.30	0.50
1:C:1390:GLY:O	1:F:1264:MET:HB3	2.11	0.50
1:C:1394:PRO:HB3	1:C:1627:PHE:CE2	2.46	0.50
1:D:24:MET:HE2	2:J:2043:VAL:HG13	1.92	0.50
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.92	0.50
1:E:22:PHE:O	2:K:2006:HIS:HA	2.11	0.50
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.28	0.50
1:E:443:LEU:H	1:E:443:LEU:HD12	1.76	0.50
1:E:726:VAL:HG21	1:E:780:ALA:HB3	1.92	0.50
1:F:570:TYR:O	1:F:574:ILE:HG12	2.11	0.50
2:G:108:GLU:HA	2:G:111:ARG:HD2	1.93	0.50
2:G:474:THR:HB	2:G:476:GLN:HG2	1.92	0.50
2:G:1521:GLU:OE2	2:G:2028:THR:HG22	2.10	0.50
2:G:1722:ALA:HB2	2:G:1812:LEU:HD11	1.93	0.50
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.11	0.50
2:H:227:ILE:HD13	2:H:252:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:289:ILE:HG22	2:H:490:LEU:HD22	1.92	0.50
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.93	0.50
2:H:1343:PHE:CE2	2:H:1388:PRO:HD2	2.45	0.50
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.11	0.50
2:I:573:VAL:CG2	2:I:804:PRO:HB2	2.41	0.50
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.93	0.50
2:I:1440:THR:HG22	2:I:1440:THR:O	2.10	0.50
2:I:1475:LEU:HD23	2:I:1476:ASP:N	2.26	0.50
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.42	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.42	0.50
2:J:1631:ARG:HA	2:J:1686:GLU:HB2	1.93	0.50
2:K:747:ARG:NH1	2:K:780:SER:O	2.44	0.50
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.26	0.50
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.11	0.50
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.40	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG2	1.93	0.50
2:L:582:LYS:HA	2:L:587:GLN:O	2.11	0.50
2:L:603:VAL:HG22	2:L:810:CYS:SG	2.52	0.50
2:L:832:ILE:HA	2:L:868:LEU:HD21	1.93	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.94	0.50
2:L:979:LEU:HD21	2:L:999:ALA:CB	2.41	0.50
2:L:1662:ARG:HG2	2:L:1686:GLU:HG2	1.94	0.50
2:L:1722:ALA:HB2	2:L:1812:LEU:HD11	1.93	0.50
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.94	0.50
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.46	0.50
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.93	0.50
1:A:1402:THR:CG2	1:E:1270:THR:HG21	2.40	0.50
1:A:1702:ARG:CG	1:A:1702:ARG:NH1	2.53	0.50
1:B:29:ILE:HD11	2:H:1922:VAL:C	2.31	0.50
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.41	0.50
1:B:1402:THR:CG2	1:D:1270:THR:HG21	2.41	0.50
1:C:569:LEU:HD13	1:D:548:VAL:CG2	2.40	0.50
1:C:1401:LEU:O	1:C:1401:LEU:HD22	2.10	0.50
1:C:1443:LEU:HD11	1:C:1470:ARG:HB3	1.93	0.50
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.93	0.50
1:D:1041:PRO:HA	1:D:1046:PRO:HA	1.94	0.50
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.92	0.50
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.47	0.50
1:F:1071:TYR:C	1:F:1071:TYR:CD2	2.84	0.50
2:G:126:VAL:HG12	2:G:127:ALA:N	2.25	0.50
2:G:298:ALA:HB1	2:G:304:PHE:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.93	0.50
2:G:1804:GLN:HG2	2:G:1865:LEU:CD2	2.42	0.50
2:G:1881:TYR:CB	2:G:2004:PRO:HG3	2.42	0.50
2:H:208:LEU:HA	2:H:211:LEU:HD12	1.94	0.50
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.92	0.50
2:H:1227:LYS:HG2	2:H:1228:LEU:N	2.26	0.50
2:H:1348:PHE:O	2:H:1351:VAL:HG12	2.12	0.50
2:I:289:ILE:HD12	2:I:472:THR:OG1	2.11	0.50
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.59	0.50
2:J:116:GLY:O	2:J:561:ARG:NH1	2.44	0.50
2:J:699:ILE:N	2:J:699:ILE:HD12	2.25	0.50
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.94	0.50
2:K:1650:THR:O	2:K:1669:ALA:HA	2.12	0.50
2:L:613:VAL:N	2:L:614:PRO:CD	2.75	0.50
2:L:1130:ILE:HB	2:L:1133:LEU:HD22	1.94	0.50
2:L:1236:LEU:O	2:L:1237:VAL:HG23	2.12	0.50
2:L:1426:VAL:HG12	2:L:1427:MET:HG2	1.93	0.50
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.24	0.50
1:A:444:LEU:HD22	1:A:448:MET:CG	2.42	0.50
1:A:701:ARG:NH1	1:A:1610:ARG:HH21	2.10	0.50
1:A:831:GLU:HG2	1:F:755:GLU:CG	2.41	0.50
1:A:956:ILE:HA	2:G:977:PRO:HA	1.94	0.50
1:A:973:TRP:CD1	1:A:1648:LYS:HD2	2.47	0.50
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.85	0.50
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.92	0.50
1:C:613:PRO:HD3	1:C:628:TYR:CE2	2.47	0.50
1:C:718:SER:HB3	1:C:721:ASP:HB2	1.94	0.50
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.94	0.50
1:D:918:LEU:O	1:D:921:GLU:HG3	2.12	0.50
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.39	0.50
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.46	0.50
1:E:41:THR:HG22	2:K:1689:VAL:HG12	1.94	0.50
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.94	0.50
1:E:1011:ARG:HD2	1:E:1011:ARG:C	2.32	0.50
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.93	0.50
2:G:421:PHE:HB3	2:G:844:GLU:OE2	2.11	0.50
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.93	0.50
2:G:1662:ARG:HG2	2:G:1686:GLU:HG2	1.91	0.50
2:G:1866:THR:HA	2:G:1869:VAL:CG2	2.41	0.50
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.46	0.50
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:1200:ARG:HD3	2:H:1200:ARG:N	2.24	0.50
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.41	0.50
2:I:980:LEU:HD21	2:I:986:LEU:HD21	1.93	0.50
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.46	0.50
2:J:447:ALA:O	2:J:451:ILE:HG13	2.11	0.50
2:J:506:VAL:O	2:J:506:VAL:HG22	2.12	0.50
2:J:578:PRO:HG3	2:J:792:LEU:O	2.11	0.50
2:J:1441:ASP:C	2:J:1443:GLU:N	2.64	0.50
2:J:1555:VAL:O	2:J:1555:VAL:HG12	2.12	0.50
2:J:1804:GLN:HG2	2:J:1865:LEU:CD2	2.40	0.50
2:K:462:ALA:HB3	2:K:481:LEU:O	2.12	0.50
2:K:1160:PHE:CE1	2:K:1164:ILE:HD11	2.47	0.50
2:K:1291:ARG:HD2	2:K:1297:LYS:HG2	1.93	0.50
2:L:189:ILE:HD13	2:L:259:ALA:HB3	1.92	0.50
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.92	0.50
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.92	0.50
2:L:1291:ARG:HD2	2:L:1297:LYS:HG2	1.94	0.50
2:L:1382:MET:CB	2:L:1633:ARG:HH11	2.25	0.50
2:L:1442:TYR:O	2:L:1445:THR:HG22	2.12	0.50
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.41	0.50
1:A:689:ARG:NH1	1:A:1339:GLU:OE2	2.45	0.50
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.93	0.50
1:A:1535:SER:HB3	1:A:1602:PHE:CD1	2.47	0.50
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.11	0.50
1:C:476:ASN:O	1:C:480:VAL:HG23	2.12	0.50
1:C:535:TYR:CG	1:C:610:GLU:N	2.79	0.50
1:C:1250:LEU:HB2	1:F:1317:GLU:CG	2.41	0.50
1:C:1523:HIS:HB2	1:C:1624:SER:HA	1.94	0.50
1:D:432:GLN:O	1:D:436:ILE:HG13	2.12	0.50
1:D:1493:PHE:HE2	1:D:1509:THR:HG22	1.76	0.50
1:E:1038:HIS:CE1	1:E:1042:LEU:HG	2.47	0.50
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.46	0.50
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.94	0.50
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.94	0.50
1:F:1672:GLY:HA3	1:F:1678:LEU:HD23	1.94	0.50
2:G:193:TYR:O	2:G:197:VAL:HG23	2.12	0.50
2:G:486:ILE:O	2:G:490:LEU:HG	2.11	0.50
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.46	0.50
2:G:957:LYS:HE2	2:G:1022:ARG:HH22	1.76	0.50
2:G:1223:SER:CB	2:G:1226:ALA:HB3	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.93	0.50
2:G:1290:TYR:CG	2:G:1299:VAL:CG1	2.90	0.50
2:H:465:LEU:HB2	2:H:479:ARG:HG2	1.92	0.50
2:H:1316:VAL:HG13	2:H:1348:PHE:HE2	1.76	0.50
2:H:1631:ARG:HA	2:H:1686:GLU:HB2	1.93	0.50
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.26	0.50
2:I:1259:LEU:HB2	2:I:1288:PHE:CD1	2.46	0.50
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.42	0.50
2:I:1728:GLU:O	2:I:1757:ILE:HD11	2.11	0.50
2:J:117:ASN:HA	2:J:561:ARG:HD2	1.92	0.50
2:J:779:GLY:O	2:J:780:SER:CB	2.52	0.50
2:J:1483:LEU:HD21	2:J:1525:VAL:HG11	1.94	0.50
2:J:1694:PHE:HD2	2:J:1843:ALA:CB	2.24	0.50
2:J:1871:VAL:CG1	2:J:1872:GLU:N	2.75	0.50
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.46	0.50
2:K:289:ILE:HG21	2:K:493:MET:CE	2.42	0.50
2:K:356:LEU:HB3	2:K:361:VAL:HG23	1.93	0.50
2:K:455:VAL:O	2:K:455:VAL:HG12	2.12	0.50
2:K:746:GLY:HA3	2:K:843:TRP:CZ2	2.47	0.50
2:K:1265:TYR:CE2	2:K:1267:PRO:HG3	2.46	0.50
2:K:1359:LYS:N	2:K:1360:PRO:CD	2.75	0.50
2:L:485:ASP:CB	2:L:488:PRO:CD	2.86	0.50
2:L:1227:LYS:HG2	2:L:1228:LEU:N	2.26	0.50
2:L:1904:VAL:HG22	2:L:1939:LEU:HD22	1.93	0.50
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.85	0.50
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.12	0.50
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.41	0.50
1:C:883:LEU:N	1:C:883:LEU:HD23	2.27	0.50
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.11	0.50
1:D:619:LYS:HG2	1:D:620:LYS:N	2.24	0.50
1:D:621:ASP:HB3	1:D:625:ASN:HB2	1.94	0.50
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.47	0.50
1:E:476:ASN:O	1:E:480:VAL:HG23	2.11	0.50
1:E:1213:VAL:CG2	1:E:1300:ARG:HH21	2.15	0.50
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.94	0.50
1:F:726:VAL:HG21	1:F:780:ALA:HB3	1.94	0.50
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.41	0.50
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.47	0.50
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.75	0.50
2:G:1097:PHE:CD2	2:G:1100:ARG:NH1	2.80	0.50
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.11	0.50

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.93	0.50
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.46	0.50
2:J:1516:GLU:HA	2:J:1521:GLU:O	2.11	0.50
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.26	0.50
2:K:949:ARG:HH22	2:K:1052:ASP:CG	2.14	0.50
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.50
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.47	0.50
2:L:416:GLN:HA	2:L:419:ILE:HG13	1.92	0.50
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.11	0.50
2:L:1631:ARG:HA	2:L:1686:GLU:HB2	1.93	0.50
2:L:2052:LYS:HB3	2:L:2074:TRP:CZ2	2.45	0.50
1:A:533:SER:CB	1:A:612:ILE:HB	2.35	0.50
1:A:755:GLU:CG	1:F:831:GLU:HG2	2.38	0.50
1:C:1098:GLN:HB2	1:C:1152:LYS:HE2	1.93	0.50
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.41	0.50
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.41	0.50
1:F:859:VAL:HG22	1:F:918:LEU:HB3	1.92	0.50
1:F:1159:LEU:HD12	1:F:1327:ALA:HB3	1.93	0.50
1:F:1544:HIS:O	1:F:1544:HIS:CG	2.64	0.50
2:G:781:GLY:HA2	2:G:1071:VAL:CG1	2.37	0.50
2:G:1483:LEU:HD21	2:G:1525:VAL:HG11	1.93	0.50
2:H:1475:LEU:HD23	2:H:1476:ASP:N	2.27	0.50
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.42	0.50
2:I:120:HIS:CD2	2:I:137:VAL:HG11	2.47	0.50
2:I:613:VAL:N	2:I:614:PRO:CD	2.75	0.50
2:I:786:GLU:H	2:I:786:GLU:CD	2.14	0.50
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.92	0.50
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.12	0.50
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.46	0.50
2:J:356:LEU:HB3	2:J:361:VAL:HG23	1.94	0.50
2:J:505:THR:O	2:J:505:THR:HG22	2.12	0.50
2:K:245:SER:HA	2:K:436:THR:HG21	1.94	0.50
2:K:332:ALA:N	2:L:1627:ASN:HD21	2.09	0.50
2:L:170:TYR:CE1	2:L:510:ALA:HB2	2.47	0.50
2:L:1694:PHE:CD2	2:L:1843:ALA:CA	2.94	0.50
1:A:335:LEU:C	1:A:335:LEU:HD12	2.31	0.50
1:A:612:ILE:HG12	1:A:628:TYR:HD2	1.76	0.50
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.50
1:A:1068:TYR:O	1:A:1072:ILE:HG13	2.12	0.50
1:B:427:ARG:HD2	1:B:490:VAL:HG12	1.94	0.50
1:B:619:LYS:HG2	1:B:620:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.30	0.50
1:B:1037:ASN:HD21	2:H:1011:GLN:HG2	1.77	0.50
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.41	0.50
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.94	0.50
1:C:1402:THR:CG2	1:F:1270:THR:HG21	2.41	0.50
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.12	0.50
1:D:577:LEU:HB2	1:D:579:MET:HG3	1.94	0.50
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.30	0.50
1:D:1580:VAL:HG22	1:D:1585:ILE:O	2.12	0.50
1:D:1638:HIS:ND1	1:D:1639:PRO:HD2	2.27	0.50
1:E:14:LEU:HD21	2:K:1844:LEU:HD21	1.93	0.50
2:G:102:LEU:O	2:G:106:LEU:HG	2.12	0.50
2:G:480:GLU:HG2	2:G:480:GLU:O	2.12	0.50
2:G:555:LYS:HB3	2:G:556:PRO:HD3	1.94	0.50
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.93	0.50
2:H:24:LEU:CD1	2:H:45:ALA:HB1	2.42	0.50
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.27	0.50
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.77	0.50
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.42	0.50
2:H:1154:LEU:HD13	2:H:1198:PRO:HB3	1.93	0.50
2:I:174:GLY:H	2:I:517:GLY:CA	2.25	0.50
2:I:743:TRP:CE2	2:I:761:ILE:HD11	2.46	0.50
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.47	0.50
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.47	0.50
2:I:788:THR:HG21	2:I:810:CYS:SG	2.52	0.50
2:I:911:GLN:HE21	2:I:1065:CYS:H	1.59	0.50
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.94	0.50
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.42	0.50
2:I:1468:ARG:CG	2:I:1468:ARG:NH1	2.52	0.50
2:J:329:THR:OG1	2:K:1338:ARG:NH1	2.45	0.50
2:J:911:GLN:HE21	2:J:1065:CYS:H	1.59	0.50
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.92	0.50
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.26	0.50
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.40	0.50
2:J:1468:ARG:CG	2:J:1468:ARG:NH1	2.51	0.50
2:K:170:TYR:CD2	2:K:507:PHE:HB3	2.47	0.50
2:K:617:PHE:HD1	2:K:822:ALA:HA	1.76	0.50
2:K:785:SER:O	2:K:789:TYR:HB2	2.12	0.50
2:L:290:VAL:HA	2:L:490:LEU:CD1	2.40	0.50
2:L:613:VAL:N	2:L:614:PRO:HD3	2.27	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.12	0.50

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:44:GLN:HE21	2:G:48:LEU:HD21	1.76	0.49
2:G:1871:VAL:HG23	2:G:2003:VAL:HG13	1.94	0.49
2:G:1902:TYR:OH	2:G:1966:ARG:HB2	2.12	0.49
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.94	0.49
2:I:44:GLN:HE21	2:I:48:LEU:HD21	1.77	0.49
2:I:126:VAL:HG12	2:I:127:ALA:N	2.26	0.49
2:I:300:THR:HG22	2:I:302:ASP:H	1.75	0.49
2:I:474:THR:HB	2:I:476:GLN:HG2	1.92	0.49
2:I:930:THR:HG23	2:I:933:GLU:H	1.77	0.49
2:I:1130:ILE:HB	2:I:1133:LEU:HD22	1.94	0.49
2:I:1402:ASN:O	2:I:1403:ALA:HB2	2.12	0.49
2:J:455:VAL:O	2:J:455:VAL:HG12	2.12	0.49
2:J:1579:ASN:O	2:J:1583:VAL:HG23	2.13	0.49
2:J:1888:PRO:HB3	2:J:1895:PHE:CD1	2.46	0.49
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.42	0.49
2:K:298:ALA:HB1	2:K:304:PHE:HA	1.93	0.49
2:K:731:ALA:HA	2:K:739:ILE:HD12	1.93	0.49
2:K:1236:LEU:O	2:K:1237:VAL:HG23	2.12	0.49
2:K:1372:LYS:O	2:K:1436:ARG:HG2	2.12	0.49
2:K:1802:ALA:HB1	2:K:1804:GLN:NE2	2.18	0.49
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.25	0.49
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.95	0.49
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.94	0.49
2:L:1543:TYR:HD2	2:L:1544:LEU:HD23	1.77	0.49
2:L:1851:MET:HE1	2:L:2024:LYS:HB3	1.95	0.49
1:A:408:GLN:NE2	1:A:1609:SER:H	2.10	0.49
1:A:987:MET:O	1:A:1490:GLY:HA3	2.12	0.49
1:B:453:ASP:HB2	1:B:454:HIS:HD2	1.77	0.49
1:B:1270:THR:HA	1:D:1386:THR:O	2.12	0.49
1:B:1536:ASP:N	1:B:1602:PHE:HE1	2.09	0.49
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.93	0.49
1:D:1098:GLN:HB2	1:D:1152:LYS:HE2	1.94	0.49
1:D:1602:PHE:N	1:D:1602:PHE:HD2	2.09	0.49
1:E:404:ASN:HD21	1:E:1607:TYR:H	1.61	0.49
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.94	0.49
1:E:613:PRO:C	1:E:615:LEU:H	2.15	0.49
1:E:1050:TRP:HA	1:E:1050:TRP:CE3	2.48	0.49
1:F:1425:LEU:CD2	1:F:1429:ARG:HH21	2.17	0.49
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.42	0.49
2:H:126:VAL:HG12	2:H:127:ALA:N	2.26	0.49
2:H:289:ILE:HD12	2:H:472:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:298:ALA:HB1	2:H:304:PHE:HA	1.95	0.49
2:H:595:SER:HB2	2:H:600:VAL:O	2.12	0.49
2:H:1603:PRO:HB2	2:H:1644:LEU:HD21	1.93	0.49
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.78	0.49
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.47	0.49
2:I:487:ILE:HB	2:I:488:PRO:CD	2.41	0.49
2:I:580:LEU:O	2:I:581:VAL:HG23	2.12	0.49
2:I:1452:VAL:O	2:I:1454:MET:HG3	2.11	0.49
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	1.94	0.49
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.47	0.49
2:J:381:SER:HB2	2:J:440:HIS:HB2	1.94	0.49
2:J:388:ASN:HD22	2:J:388:ASN:C	2.15	0.49
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.93	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.61	0.49
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.92	0.49
2:J:1137:ARG:HB3	2:J:1142:ILE:HG23	1.95	0.49
2:K:250:PHE:O	2:K:315:LEU:HD23	2.13	0.49
2:K:487:ILE:HB	2:K:488:PRO:CD	2.39	0.49
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.49
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.41	0.49
2:K:1764:MET:HE3	2:K:1865:LEU:CD1	2.42	0.49
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.12	0.49
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.47	0.49
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.47	0.49
2:L:957:LYS:HE2	2:L:1022:ARG:HH22	1.78	0.49
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.62	0.49
1:A:374:LEU:HD11	1:F:389:PRO:HD3	1.93	0.49
1:A:476:ASN:O	1:A:480:VAL:HG23	2.13	0.49
1:A:539:THR:O	1:A:542:GLN:HG2	2.12	0.49
1:A:907:PHE:O	1:A:909:PRO:HD3	2.12	0.49
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.26	0.49
1:A:1338:GLY:H	1:A:1340:MET:HG3	1.76	0.49
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.13	0.49
1:B:1149:LEU:HD12	1:D:1097:LEU:HD13	1.94	0.49
1:B:1359:VAL:HG12	1:B:1360:GLN:N	2.27	0.49
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	1.93	0.49
1:C:767:HIS:CE1	1:D:767:HIS:CE1	3.00	0.49
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.38	0.49
1:D:1378:ILE:HD11	1:D:1642:LEU:HB2	1.93	0.49
1:E:1159:LEU:HD12	1:E:1327:ALA:HB3	1.95	0.49
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1041:PRO:HA	1:F:1046:PRO:HA	1.94	0.49
1:F:1199:LEU:C	1:F:1201:SER:H	2.15	0.49
2:G:246:ALA:HB3	2:G:247:PRO:HD3	1.94	0.49
2:G:342:ASN:HB2	2:G:406:ARG:NH2	2.27	0.49
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.49
2:G:608:MET:H	2:G:612:THR:CB	2.24	0.49
2:G:942:MET:HE1	2:G:955:LEU:HB3	1.94	0.49
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.13	0.49
2:H:1067:LEU:HD12	2:H:1067:LEU:H	1.75	0.49
2:H:1708:LEU:O	2:H:1708:LEU:HD22	2.12	0.49
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.12	0.49
2:I:24:LEU:CD1	2:I:45:ALA:HB1	2.42	0.49
2:I:480:GLU:O	2:I:480:GLU:HG2	2.13	0.49
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.28	0.49
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.94	0.49
2:J:197:VAL:CG2	2:J:263:ILE:HD11	2.41	0.49
2:J:609:THR:HG23	3:J:2101:FMN:O4	2.12	0.49
2:J:845:ASN:HD21	2:J:849:ARG:HH11	1.59	0.49
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.26	0.49
2:J:1156:ASP:CB	2:J:1159:SER:H	2.18	0.49
2:J:1359:LYS:N	2:J:1360:PRO:CD	2.75	0.49
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.13	0.49
2:K:327:PRO:N	2:L:1338:ARG:NH2	2.60	0.49
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.93	0.49
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.42	0.49
2:L:1137:ARG:HB3	2:L:1142:ILE:HG23	1.95	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.47	0.49
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.49
1:A:833:TRP:CH2	1:A:839:ILE:HD11	2.42	0.49
1:B:335:LEU:HD12	1:B:335:LEU:O	2.12	0.49
1:B:655:ALA:HB2	1:B:742:TYR:HB2	1.95	0.49
1:B:701:ARG:NH1	1:B:1610:ARG:NH2	2.60	0.49
1:B:1270:THR:HG21	1:D:1402:THR:CG2	2.42	0.49
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.12	0.49
1:C:1214:HIS:CD2	1:C:1216:SER:OG	2.61	0.49
1:C:1565:PRO:CG	1:C:1572:TRP:CZ3	2.95	0.49
1:D:43:ARG:HH11	2:J:1687:GLN:HE21	1.60	0.49
1:D:339:GLN:O	1:D:343:ILE:HG13	2.12	0.49
1:D:918:LEU:HA	1:D:921:GLU:HG2	1.95	0.49
1:D:1078:ILE:HB	1:D:1338:GLY:HA3	1.95	0.49
1:E:29:ILE:HD11	2:K:1922:VAL:C	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:470:GLY:O	1:E:474:ILE:HG13	2.13	0.49
1:E:628:TYR:HE1	1:E:630:LYS:HA	1.77	0.49
1:E:1386:THR:HG22	1:E:1387:ASP:N	2.28	0.49
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.47	0.49
1:F:689:ARG:HH21	1:F:1591:ASN:ND2	2.10	0.49
1:F:1534:GLU:HG2	1:F:1625:PHE:HE1	1.76	0.49
2:G:1265:TYR:CE2	2:G:1267:PRO:HG3	2.47	0.49
2:G:1346:MET:HG2	2:G:1617:ARG:NH2	2.26	0.49
2:G:1708:LEU:O	2:G:1708:LEU:HD22	2.12	0.49
2:H:930:THR:HG23	2:H:933:GLU:H	1.75	0.49
2:H:1120:ILE:HD11	2:H:1169:TYR:CE1	2.48	0.49
2:H:1426:VAL:HG12	2:H:1427:MET:HG2	1.95	0.49
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.47	0.49
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.42	0.49
2:I:1285:ILE:O	2:I:1288:PHE:HB3	2.13	0.49
2:I:1291:ARG:HD2	2:I:1297:LYS:HG2	1.95	0.49
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.47	0.49
2:I:1851:MET:SD	2:I:1856:LEU:HA	2.52	0.49
2:J:141:TYR:OH	2:J:267:THR:HG23	2.11	0.49
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.43	0.49
2:J:458:MET:C	2:J:459:LYS:HG3	2.31	0.49
2:K:156:SER:HB3	2:K:558:LEU:O	2.13	0.49
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.47	0.49
2:L:664:TYR:CD1	2:L:670:MET:HE1	2.47	0.49
2:L:786:GLU:H	2:L:786:GLU:CD	2.14	0.49
2:L:1348:PHE:CE1	2:L:1351:VAL:HG11	2.48	0.49
2:L:1402:ASN:O	2:L:1403:ALA:HB2	2.13	0.49
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.42	0.49
1:A:1378:ILE:HD11	1:A:1642:LEU:HB2	1.94	0.49
1:A:1536:ASP:N	1:A:1602:PHE:HE1	2.09	0.49
1:B:1535:SER:HB3	1:B:1602:PHE:CD1	2.47	0.49
1:C:534:GLN:HA	1:C:610:GLU:O	2.12	0.49
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.36	0.49
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.47	0.49
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.95	0.49
1:F:1574:LEU:O	1:F:1578:LEU:HG	2.13	0.49
2:G:910:PHE:HD2	2:G:912:LYS:H	1.58	0.49
2:G:949:ARG:HH22	2:G:1052:ASP:CG	2.15	0.49
2:G:1316:VAL:HG13	2:G:1348:PHE:CE2	2.47	0.49
2:H:580:LEU:CD2	2:H:1095:ILE:HG22	2.43	0.49
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:649:GLU:HG3	2:H:650:LYS:HG3	1.94	0.49
2:I:712:ARG:O	2:I:738:PRO:HG2	2.12	0.49
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.28	0.49
2:I:1492:LEU:HD22	2:I:1511:GLY:HA3	1.94	0.49
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.34	0.49
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.12	0.49
2:J:276:LEU:HD12	2:J:298:ALA:O	2.12	0.49
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.48	0.49
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.31	0.49
2:K:1138:ASP:HB2	2:K:1140:ASN:H	1.77	0.49
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.93	0.49
2:L:573:VAL:CG2	2:L:804:PRO:HB2	2.43	0.49
2:L:1933:LEU:O	2:L:1989:LEU:HD11	2.13	0.49
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.48	0.49
1:A:1414:PRO:HG2	1:E:1473:HIS:CD2	2.48	0.49
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.43	0.49
1:B:541:VAL:HG21	1:B:585:MET:HE1	1.95	0.49
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.43	0.49
1:B:918:LEU:O	1:B:921:GLU:HG3	2.12	0.49
1:C:415:TYR:CE2	1:C:1614:THR:HB	2.48	0.49
1:C:453:ASP:HB2	1:C:454:HIS:HD2	1.78	0.49
1:C:565:GLN:O	1:C:565:GLN:HG2	2.11	0.49
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	1.93	0.49
1:C:1535:SER:HB3	1:C:1602:PHE:CD1	2.48	0.49
1:D:613:PRO:C	1:D:615:LEU:H	2.16	0.49
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.47	0.49
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.94	0.49
1:D:1535:SER:HB3	1:D:1602:PHE:CD1	2.48	0.49
1:E:427:ARG:HH21	1:E:518:LYS:HG2	1.77	0.49
1:E:689:ARG:HD2	1:E:1339:GLU:CG	2.42	0.49
1:E:871:PHE:N	1:E:871:PHE:CD1	2.81	0.49
1:E:991:ASP:HA	1:E:1364:THR:CG2	2.43	0.49
1:E:1052:ASP:HB3	1:E:1055:THR:HG23	1.95	0.49
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.86	0.49
1:F:59:ARG:HD2	2:L:1926:GLN:NE2	2.27	0.49
1:F:689:ARG:NH1	1:F:1339:GLU:OE2	2.45	0.49
1:F:883:LEU:N	1:F:883:LEU:HD23	2.26	0.49
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.42	0.49
1:F:973:TRP:CD1	1:F:1648:LYS:HD2	2.48	0.49
2:G:645:ILE:HD13	2:G:687:ILE:HD11	1.95	0.49
2:G:1142:ILE:HD11	2:G:1209:PRO:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.43	0.49
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.27	0.49
2:G:1904:VAL:HG22	2:G:1939:LEU:HD22	1.95	0.49
2:H:170:TYR:CD2	2:H:507:PHE:HB3	2.48	0.49
2:H:258:LEU:CD1	2:H:291:VAL:HG13	2.42	0.49
2:H:652:ILE:HG23	2:H:653:PRO:HD2	1.94	0.49
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.12	0.49
2:I:227:ILE:HD13	2:I:252:LEU:HD13	1.94	0.49
2:I:1516:GLU:HA	2:I:1521:GLU:O	2.13	0.49
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.43	0.49
2:J:24:LEU:CD1	2:J:45:ALA:HB1	2.42	0.49
2:J:190:TYR:CE1	2:J:201:ILE:HG21	2.48	0.49
2:J:573:VAL:CG2	2:J:804:PRO:HB2	2.42	0.49
2:J:613:VAL:N	2:J:614:PRO:HD3	2.28	0.49
2:J:712:ARG:O	2:J:738:PRO:HG2	2.12	0.49
2:J:792:LEU:O	2:J:792:LEU:HD12	2.12	0.49
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.25	0.49
2:J:2050:ILE:O	2:J:2050:ILE:HG12	2.13	0.49
2:K:138:ARG:HB3	2:K:192:THR:HG23	1.94	0.49
2:K:350:MET:CE	2:K:435:ILE:HD12	2.42	0.49
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.49
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.49
2:L:792:LEU:O	2:L:792:LEU:HD12	2.13	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CD1	2.41	0.49
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.48	0.49
1:A:1444:GLN:O	1:A:1447:VAL:HB	2.13	0.49
1:B:443:LEU:H	1:B:443:LEU:HD12	1.78	0.49
1:B:1378:ILE:HD11	1:B:1642:LEU:HB2	1.94	0.49
1:D:549:TYR:O	1:D:553:ARG:HB3	2.13	0.49
1:D:667:ALA:O	1:D:671:GLN:HG3	2.12	0.49
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.43	0.49
1:E:43:ARG:HH11	2:K:1687:GLN:HE21	1.59	0.49
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.50	0.49
1:E:533:SER:OG	1:E:611:THR:HB	2.13	0.49
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.28	0.49
1:E:1504:ARG:NH2	1:E:1545:LEU:O	2.46	0.49
1:E:1670:HIS:ND1	2:K:1009:ASN:ND2	2.61	0.49
1:F:434:ILE:CD1	1:F:490:VAL:HG21	2.40	0.49
1:F:679:LYS:HG2	1:F:708:GLN:CB	2.39	0.49
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.27	0.49
1:F:1098:GLN:HB2	1:F:1152:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:190:TYR:HE1	2:G:201:ILE:HG21	1.76	0.49
2:G:607:GLY:HA2	2:G:612:THR:HG21	1.95	0.49
2:G:980:LEU:HD21	2:G:986:LEU:HD21	1.94	0.49
2:H:320:LEU:O	2:H:324:GLN:HG3	2.13	0.49
2:H:505:THR:O	2:H:505:THR:HG22	2.12	0.49
2:H:910:PHE:HD2	2:H:912:LYS:H	1.60	0.49
2:H:1160:PHE:CE1	2:H:1164:ILE:HD11	2.47	0.49
2:H:1359:LYS:N	2:H:1360:PRO:CD	2.76	0.49
2:H:1468:ARG:NH1	2:H:1468:ARG:CB	2.76	0.49
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.28	0.49
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.42	0.49
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.63	0.49
2:I:1146:LEU:O	2:I:1201:GLY:HA2	2.12	0.49
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.13	0.49
2:I:1708:LEU:O	2:I:1708:LEU:HD22	2.13	0.49
2:J:220:GLN:NE2	2:J:324:GLN:HG2	2.28	0.49
2:J:227:ILE:HD13	2:J:252:LEU:HD13	1.93	0.49
2:J:603:VAL:HG22	2:J:810:CYS:SG	2.52	0.49
2:J:1372:LYS:O	2:J:1436:ARG:HG2	2.13	0.49
2:J:1626:GLU:O	2:J:1627:ASN:HB2	2.13	0.49
2:J:1762:MET:HG2	2:J:1779:LYS:NZ	2.28	0.49
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.12	0.49
2:K:102:LEU:O	2:K:106:LEU:HG	2.12	0.49
2:K:910:PHE:O	2:K:1063:ARG:HD3	2.12	0.49
2:K:979:LEU:CD2	2:K:999:ALA:HB3	2.42	0.49
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.94	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:L:215:TRP:HE3	2:L:215:TRP:N	2.10	0.49
2:L:613:VAL:H	2:L:614:PRO:HD3	1.77	0.49
2:L:1305:LEU:HD23	2:L:1366:ILE:CG1	2.42	0.49
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.48	0.49
1:A:408:GLN:HE22	1:A:1609:SER:N	2.09	0.49
1:A:1019:LYS:HE3	1:A:1019:LYS:HB2	1.66	0.49
1:A:1020:PHE:CE2	1:A:1028:MET:HG3	2.47	0.49
1:B:1097:LEU:HD13	1:D:1149:LEU:HD12	1.95	0.49
1:C:921:GLU:HG3	1:C:922:ILE:H	1.78	0.49
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	1.94	0.49
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.13	0.49
1:D:994:VAL:HG21	1:D:1291:TYR:CD1	2.47	0.49
1:E:859:VAL:HG22	1:E:918:LEU:HB3	1.94	0.49
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.94	0.49
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.48	0.49
2:G:979:LEU:CD2	2:G:999:ALA:HB3	2.43	0.49
2:G:1259:LEU:HB2	2:G:1288:PHE:CD1	2.47	0.49
2:G:1464:LEU:HD11	2:G:1468:ARG:HD2	1.94	0.49
2:G:1932:ASP:OD2	2:G:1934:ARG:HD2	2.13	0.49
2:H:771:CYS:HB3	2:H:774:ILE:CD1	2.42	0.49
2:H:1007:LEU:HD12	2:H:1007:LEU:N	2.20	0.49
2:H:1622:THR:O	2:H:1626:GLU:HA	2.13	0.49
2:H:1868:GLN:HG2	2:H:1873:ARG:NH2	2.28	0.49
2:I:610:PRO:O	2:I:613:VAL:HG12	2.13	0.49
2:I:1175:MET:HA	2:I:1274:ILE:HD11	1.95	0.49
2:I:1543:TYR:HD2	2:I:1544:LEU:HD23	1.77	0.49
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.42	0.49
2:J:1262:ARG:NH2	2:J:1277:VAL:HG11	2.28	0.49
2:K:38:PRO:CD	2:K:104:LEU:HD11	2.41	0.49
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.45	0.49
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.28	0.49
2:K:1402:ASN:O	2:K:1403:ALA:HB2	2.13	0.49
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.43	0.49
2:K:1887:ASN:ND2	2:K:1890:ARG:HG3	2.28	0.49
2:L:298:ALA:HB1	2:L:304:PHE:HA	1.95	0.49
2:L:962:PHE:O	2:L:965:ARG:HB3	2.13	0.49
2:L:1160:PHE:CE1	2:L:1164:ILE:HD11	2.48	0.49
2:L:1521:GLU:OE2	2:L:2028:THR:HG22	2.12	0.49
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.13	0.49
1:A:439:ARG:O	1:A:444:LEU:HD12	2.12	0.49
1:A:443:LEU:H	1:A:443:LEU:HD12	1.77	0.49
1:A:1565:PRO:CG	1:A:1572:TRP:CZ3	2.93	0.49
1:B:608:LYS:O	1:B:610:GLU:HG2	2.13	0.49
1:B:983:GLN:HB3	1:B:1418:ILE:CD1	2.39	0.49
1:C:358:PHE:C	1:C:358:PHE:CD2	2.86	0.49
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.47	0.49
1:C:871:PHE:CD1	1:C:871:PHE:N	2.80	0.49
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.13	0.49
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.49
1:E:754:ARG:HH21	1:E:762:LYS:HD3	1.78	0.49
1:E:811:ASP:OD1	1:E:811:ASP:N	2.44	0.49
1:F:1160:VAL:HB	1:F:1352:MET:HE1	1.95	0.49
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.12	0.49
1:F:1705:GLN:NE2	1:F:1709:GLY:HA2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:580:LEU:CD2	2:G:1095:ILE:HG22	2.43	0.49
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.48	0.49
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.13	0.49
2:H:80:ILE:HG12	2:H:105:ILE:HG22	1.95	0.49
2:H:279:PHE:HB2	2:H:467:ILE:HD12	1.95	0.49
2:H:474:THR:HB	2:H:476:GLN:HG2	1.94	0.49
2:H:506:VAL:HG22	2:H:506:VAL:O	2.12	0.49
2:H:676:LEU:HD23	2:H:679:ARG:HH21	1.77	0.49
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.24	0.49
2:I:73:VAL:HG13	2:I:113:PHE:HD2	1.77	0.49
2:I:1621:GLU:OE2	2:I:1629:ILE:HG23	2.13	0.49
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.48	0.49
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.95	0.49
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.13	0.49
2:J:1622:THR:O	2:J:1626:GLU:HA	2.13	0.49
2:K:649:GLU:HG3	2:K:650:LYS:HG3	1.94	0.49
2:K:1764:MET:HE1	2:K:1865:LEU:HD12	1.95	0.49
2:L:190:TYR:HE1	2:L:201:ILE:HG21	1.77	0.49
2:L:350:MET:CE	2:L:435:ILE:HD12	2.42	0.49
2:L:834:ASP:O	2:L:836:PRO:HD3	2.12	0.49
2:L:1103:TYR:O	2:L:1106:LYS:HB2	2.12	0.49
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.28	0.49
1:A:326:ASP:HB3	1:A:333:ARG:NH1	2.22	0.48
1:A:655:ALA:HB2	1:A:742:TYR:HB2	1.95	0.48
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.48	0.48
1:A:1067:LYS:HB3	1:A:1068:TYR:CD1	2.48	0.48
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.12	0.48
1:B:1157:ASP:HB3	1:B:1326:ASN:OD1	2.13	0.48
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.94	0.48
1:C:621:ASP:HB3	1:C:625:ASN:HB2	1.95	0.48
1:C:929:ARG:O	1:C:933:ILE:HG13	2.12	0.48
1:C:1603:ASP:HB2	1:C:1604:TYR:CD2	2.48	0.48
1:D:1490:GLY:O	1:D:1509:THR:HB	2.12	0.48
1:D:1560:TYR:CE2	1:D:1589:ASN:HA	2.48	0.48
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.13	0.48
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.48
1:E:1535:SER:HB3	1:E:1602:PHE:CD1	2.47	0.48
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.61	0.48
1:F:565:GLN:O	1:F:565:GLN:HG2	2.11	0.48
1:F:956:ILE:HA	2:L:977:PRO:HA	1.95	0.48
2:G:665:VAL:HG12	2:G:665:VAL:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:703:ASN:O	2:G:707:GLN:HG3	2.13	0.48
2:G:1175:MET:HE1	2:G:1234:ILE:HG21	1.93	0.48
2:G:1249:GLY:HA2	2:G:1256:VAL:HG22	1.95	0.48
2:G:1372:LYS:O	2:G:1436:ARG:HG2	2.13	0.48
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.48
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	2.13	0.48
2:G:2052:LYS:HE2	2:G:2052:LYS:N	2.07	0.48
2:H:485:ASP:HB2	2:H:488:PRO:HD2	1.93	0.48
2:H:676:LEU:HD23	2:H:679:ARG:NH2	2.28	0.48
2:H:712:ARG:O	2:H:738:PRO:HG2	2.13	0.48
2:H:1137:ARG:HB3	2:H:1142:ILE:HG23	1.94	0.48
2:H:1672:LYS:HG2	2:H:1672:LYS:O	2.13	0.48
2:H:1804:GLN:HG2	2:H:1865:LEU:CD2	2.43	0.48
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.42	0.48
2:I:350:MET:CE	2:I:435:ILE:HD12	2.43	0.48
2:I:356:LEU:HD23	2:I:356:LEU:HA	1.66	0.48
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.13	0.48
2:I:827:GLN:H	2:I:827:GLN:CD	2.15	0.48
2:I:1468:ARG:NH1	2:I:1468:ARG:CB	2.74	0.48
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.19	0.48
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.13	0.48
2:J:60:THR:HG22	2:J:62:GLU:H	1.78	0.48
2:J:376:ARG:NH2	2:K:1339:GLY:HA2	2.27	0.48
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.13	0.48
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.13	0.48
2:J:1346:MET:HE3	2:J:1617:ARG:NH2	2.28	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.12	0.48
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.48	0.48
2:K:712:ARG:O	2:K:738:PRO:HG2	2.13	0.48
2:K:1404:VAL:CG2	2:K:1413:VAL:HG22	2.38	0.48
2:K:1464:LEU:HD13	2:K:1464:LEU:C	2.33	0.48
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	2.13	0.48
2:L:635:TYR:CB	2:L:641:MET:HG3	2.42	0.48
2:L:699:ILE:H	2:L:699:ILE:CD1	2.26	0.48
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.48	0.48
2:L:1764:MET:HE1	2:L:1865:LEU:HD12	1.95	0.48
1:A:22:PHE:O	2:G:2006:HIS:HA	2.12	0.48
1:B:1020:PHE:CE2	1:B:1028:MET:HG3	2.48	0.48
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.43	0.48
1:C:29:ILE:HD11	2:I:1922:VAL:C	2.32	0.48
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.13	0.48
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.93	0.48
1:D:1303:LEU:HD23	1:D:1361:VAL:HB	1.94	0.48
1:E:453:ASP:HB2	1:E:454:HIS:HD2	1.78	0.48
1:E:1586:VAL:CG2	1:E:1617:ILE:HD11	2.43	0.48
1:F:23:ALA:HA	2:L:2007:SER:O	2.13	0.48
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.48	0.48
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.43	0.48
2:G:485:ASP:CB	2:G:488:PRO:CD	2.90	0.48
2:G:827:GLN:H	2:G:827:GLN:CD	2.15	0.48
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.95	0.48
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.43	0.48
2:H:455:VAL:O	2:H:455:VAL:HG12	2.13	0.48
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.95	0.48
2:H:1442:TYR:O	2:H:1445:THR:HG22	2.12	0.48
2:H:1504:TYR:HD2	2:H:1507:VAL:HG11	1.78	0.48
2:H:1694:PHE:CD2	2:H:1843:ALA:CA	2.96	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.39	0.48
2:I:962:PHE:O	2:I:965:ARG:HB3	2.13	0.48
2:I:1115:TYR:OH	2:I:1173:HIS:CD2	2.62	0.48
2:I:1442:TYR:CA	2:I:1445:THR:HG22	2.43	0.48
2:J:480:GLU:HG2	2:J:480:GLU:O	2.13	0.48
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.77	0.48
2:J:746:GLY:HA3	2:J:843:TRP:CZ2	2.49	0.48
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.12	0.48
2:K:117:ASN:HA	2:K:561:ARG:HD2	1.95	0.48
2:K:189:ILE:HD12	2:K:256:VAL:HG13	1.94	0.48
2:K:350:MET:HE2	2:K:435:ILE:HD12	1.96	0.48
2:K:1156:ASP:CB	2:K:1159:SER:H	2.19	0.48
2:K:1350:ILE:O	2:K:1354:TRP:HB2	2.12	0.48
2:K:1483:LEU:HD21	2:K:1525:VAL:HG11	1.95	0.48
2:K:1762:MET:HG2	2:K:1779:LYS:NZ	2.27	0.48
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.47	0.48
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.95	0.48
2:L:610:PRO:O	2:L:613:VAL:HG12	2.13	0.48
2:L:1067:LEU:HD12	2:L:1067:LEU:H	1.78	0.48
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.13	0.48
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	2.12	0.48
1:A:616:HIS:C	1:A:617:LEU:HD23	2.34	0.48
1:C:26:VAL:CG2	2:I:2006:HIS:CE1	2.97	0.48
1:C:543:ASN:O	1:C:546:ARG:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:872:SER:OG	1:C:874:GLN:HG3	2.14	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:N	2.28	0.48
1:D:340:LEU:HD22	1:D:351:LEU:HD11	1.95	0.48
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.94	0.48
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.42	0.48
1:F:1294:ILE:HD11	1:F:1302:CYS:HB3	1.96	0.48
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.49	0.48
2:G:258:LEU:CD1	2:G:291:VAL:HG13	2.43	0.48
2:G:468:PRO:HD3	2:G:479:ARG:HH21	1.76	0.48
2:G:603:VAL:HG22	2:G:810:CYS:SG	2.52	0.48
2:G:1266:HIS:CE1	2:G:1275:ARG:CD	2.90	0.48
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.44	0.48
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.48
2:H:1249:GLY:HA2	2:H:1256:VAL:HG22	1.94	0.48
2:H:1483:LEU:HD21	2:H:1525:VAL:HG11	1.96	0.48
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.36	0.48
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.94	0.48
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.29	0.48
2:J:731:ALA:HA	2:J:739:ILE:HD12	1.95	0.48
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.26	0.48
2:J:1451:GLU:HG3	2:J:1541:ILE:HD11	1.95	0.48
2:K:580:LEU:CD2	2:K:1095:ILE:HG22	2.42	0.48
2:K:690:LEU:HD22	2:K:691:THR:H	1.78	0.48
2:K:1227:LYS:HG2	2:K:1228:LEU:N	2.27	0.48
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.42	0.48
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.29	0.48
1:B:1149:LEU:HB2	1:D:1149:LEU:CB	2.43	0.48
1:C:1078:ILE:HB	1:C:1338:GLY:HA3	1.95	0.48
1:C:1303:LEU:HD23	1:C:1361:VAL:HB	1.96	0.48
1:D:453:ASP:HB2	1:D:454:HIS:HD2	1.77	0.48
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.48
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.46	0.48
1:F:335:LEU:HD12	1:F:335:LEU:O	2.14	0.48
1:F:358:PHE:C	1:F:358:PHE:CD2	2.87	0.48
1:F:409:ASP:CG	1:F:701:ARG:NH1	2.67	0.48
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.46	0.48
2:G:190:TYR:CE1	2:G:201:ILE:HG21	2.48	0.48
2:H:350:MET:CE	2:H:435:ILE:HD12	2.44	0.48
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.13	0.48
2:H:783:GLY:HA2	2:H:815:ARG:HD3	1.95	0.48
2:H:786:GLU:H	2:H:786:GLU:CD	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.13	0.48
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.29	0.48
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.43	0.48
2:I:276:LEU:HD12	2:I:298:ALA:O	2.12	0.48
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.95	0.48
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.13	0.48
2:I:1694:PHE:CD2	2:I:1843:ALA:CA	2.94	0.48
2:J:120:HIS:CD2	2:J:137:VAL:CG1	2.97	0.48
2:J:134:ILE:HG12	2:J:545:ILE:CD1	2.43	0.48
2:J:1468:ARG:NH1	2:J:1468:ARG:CB	2.75	0.48
2:K:875:PHE:HE2	2:K:906:LEU:CD2	2.26	0.48
2:K:1764:MET:HE3	2:K:1865:LEU:HD12	1.95	0.48
2:K:1904:VAL:HG22	2:K:1939:LEU:HD22	1.95	0.48
2:L:193:TYR:O	2:L:197:VAL:HG23	2.13	0.48
2:L:741:LEU:HG	2:L:741:LEU:O	2.13	0.48
2:L:1141:LYS:CE	2:L:1143:SER:HB2	2.44	0.48
2:L:1471:GLU:H	2:L:1471:GLU:HG3	1.44	0.48
2:L:1868:GLN:HG2	2:L:1873:ARG:HH22	1.78	0.48
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.41	0.48
1:A:788:ARG:HB2	1:A:790:TYR:CD2	2.47	0.48
1:A:1493:PHE:HE2	1:A:1509:THR:HG22	1.77	0.48
1:B:339:GLN:O	1:B:343:ILE:HG13	2.13	0.48
1:B:743:VAL:O	1:B:745:PRO:HD3	2.14	0.48
1:B:833:TRP:CH2	1:B:839:ILE:HD11	2.45	0.48
1:B:1001:GLU:C	1:B:1002:ILE:HD12	2.34	0.48
1:B:1079:ARG:CG	1:B:1079:ARG:NH1	2.69	0.48
1:C:573:VAL:O	1:C:577:LEU:HG	2.13	0.48
1:C:621:ASP:HB3	1:C:625:ASN:H	1.78	0.48
1:C:1157:ASP:O	1:C:1159:LEU:HD12	2.13	0.48
1:C:1493:PHE:HE2	1:C:1509:THR:HG22	1.77	0.48
1:D:718:SER:HB3	1:D:721:ASP:HB2	1.96	0.48
1:E:427:ARG:NH1	1:E:492:ILE:CG1	2.76	0.48
1:E:524:LYS:O	1:E:527:ALA:N	2.47	0.48
1:E:948:HIS:O	1:E:952:TYR:HD2	1.97	0.48
1:E:1273:ILE:O	1:E:1273:ILE:HG13	2.13	0.48
1:E:1603:ASP:HB2	1:E:1604:TYR:CD2	2.48	0.48
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.25	0.48
1:F:435:GLN:HG2	1:F:701:ARG:O	2.13	0.48
1:F:811:ASP:OD1	1:F:811:ASP:N	2.47	0.48
1:F:1001:GLU:O	1:F:1002:ILE:HD12	2.13	0.48
1:F:1179:ILE:O	1:F:1183:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.14	0.48
2:G:220:GLN:NE2	2:G:324:GLN:HG2	2.28	0.48
2:G:376:ARG:HH21	2:H:1339:GLY:HA2	1.78	0.48
2:G:916:GLY:C	2:G:929:MET:HE2	2.33	0.48
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.14	0.48
2:G:1266:HIS:HE1	2:G:1275:ARG:CD	2.17	0.48
2:G:1316:VAL:HG13	2:G:1348:PHE:HE2	1.78	0.48
2:G:1371:LEU:HG	2:G:1600:ALA:HB2	1.95	0.48
2:H:378:ILE:HG23	2:H:391:VAL:HG13	1.96	0.48
2:H:416:GLN:HA	2:H:419:ILE:HG13	1.94	0.48
2:H:911:GLN:HE21	2:H:1065:CYS:H	1.59	0.48
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.13	0.48
2:I:102:LEU:O	2:I:106:LEU:HG	2.13	0.48
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.95	0.48
2:I:416:GLN:HA	2:I:419:ILE:HG13	1.96	0.48
2:I:665:VAL:O	2:I:665:VAL:HG12	2.13	0.48
2:I:699:ILE:HD12	2:I:699:ILE:N	2.28	0.48
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.96	0.48
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.95	0.48
2:I:1722:ALA:HB2	2:I:1812:LEU:HD11	1.95	0.48
2:J:108:GLU:HA	2:J:111:ARG:HD2	1.94	0.48
2:J:872:GLY:HA2	2:J:909:ASP:O	2.14	0.48
2:J:942:MET:CE	2:J:955:LEU:HB3	2.44	0.48
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.94	0.48
2:J:1259:LEU:HB2	2:J:1288:PHE:CD1	2.49	0.48
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.28	0.48
2:K:211:LEU:HB3	2:K:316:PHE:CZ	2.49	0.48
2:K:1067:LEU:HB2	3:K:2101:FMN:C7M	2.44	0.48
2:K:1141:LYS:CE	2:K:1143:SER:HB2	2.43	0.48
2:L:930:THR:HG23	2:L:933:GLU:H	1.76	0.48
2:L:938:MET:HE2	2:L:959:THR:HA	1.95	0.48
2:L:1636:HIS:O	2:L:1681:GLY:HA3	2.14	0.48
1:B:541:VAL:HG22	1:E:576:ALA:HB3	1.95	0.48
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.96	0.48
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.96	0.48
1:C:902:ASN:O	1:C:904:GLY:N	2.44	0.48
1:C:1268:SER:CB	1:F:1389:ILE:HG13	2.10	0.48
1:D:574:ILE:HG23	1:D:579:MET:HB2	1.95	0.48
1:D:811:ASP:OD1	1:D:811:ASP:N	2.46	0.48
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.48	0.48
1:E:1534:GLU:HG2	1:E:1625:PHE:HE1	1.79	0.48

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.49	0.48
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.13	0.48
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.44	0.48
1:B:1251:GLN:HG3	1:D:1321:MET:HE1	1.95	0.48
1:C:843:VAL:O	1:C:843:VAL:HG22	2.13	0.48
1:C:869:ARG:O	1:C:903:GLY:HA3	2.13	0.48
1:C:1386:THR:HG22	1:C:1387:ASP:H	1.79	0.48
1:D:1672:GLY:HA3	1:D:1678:LEU:HD23	1.96	0.48
1:D:1685:ALA:HB1	1:D:1686:PRO:CD	2.44	0.48
1:E:694:TYR:HD2	1:E:695:TYR:CD1	2.32	0.48
1:E:843:VAL:O	1:E:843:VAL:HG22	2.12	0.48
1:E:950:ALA:HA	1:E:953:ARG:CZ	2.43	0.48
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.14	0.48
1:E:1381:MET:HE3	1:E:1403:THR:HB	1.96	0.48
1:F:537:ASN:O	1:F:541:VAL:HG23	2.14	0.48
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.48	0.48
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.14	0.48
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.19	0.48
2:H:27:THR:HG22	2:H:32:GLU:CD	2.34	0.48
2:H:271:GLU:HG2	2:H:301:TRP:NE1	2.29	0.48
2:H:452:LEU:HD21	2:H:488:PRO:HA	1.96	0.48
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.95	0.48
2:H:485:ASP:CB	2:H:488:PRO:CD	2.87	0.48
2:H:1723:ASP:OD1	2:H:1735:ILE:HG13	2.14	0.48
2:I:1156:ASP:HB2	2:I:1159:SER:N	2.19	0.48
2:I:1483:LEU:CD2	2:I:1525:VAL:HG11	2.44	0.48
2:J:73:VAL:HG13	2:J:113:PHE:HD2	1.77	0.48
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.48	0.48
2:J:246:ALA:HB3	2:J:247:PRO:HD3	1.95	0.48
2:J:1285:ILE:O	2:J:1288:PHE:HB3	2.13	0.48
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.43	0.48
2:L:24:LEU:CD1	2:L:45:ALA:HB1	2.43	0.48
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.96	0.48
2:L:458:MET:C	2:L:459:LYS:HG3	2.34	0.48
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.96	0.48
2:L:467:ILE:CG2	2:L:468:PRO:HD2	2.43	0.48
2:L:1220:ARG:HA	2:L:1229:VAL:O	2.13	0.48
2:L:1456:LEU:HD23	2:L:1457:HIS:N	2.28	0.48
2:L:1871:VAL:HG23	2:L:2003:VAL:HG13	1.96	0.48
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.28	0.48
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.14	0.48
1:A:1212:TYR:CD2	1:A:1371:MET:HG2	2.49	0.48
1:B:1574:LEU:O	1:B:1578:LEU:HG	2.14	0.48
1:C:754:ARG:HH21	1:C:762:LYS:HD3	1.78	0.48
1:C:1580:VAL:HG22	1:C:1585:ILE:O	2.13	0.48
1:D:869:ARG:O	1:D:903:GLY:HA3	2.14	0.48
1:D:1160:VAL:HG23	1:D:1327:ALA:HB2	1.94	0.48
1:E:956:ILE:HA	2:K:977:PRO:HA	1.95	0.48
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.48
1:F:36:LEU:CD2	1:F:44:ILE:HD11	2.41	0.48
1:F:1164:ILE:CD1	1:F:1355:GLN:HG3	2.44	0.48
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.48	0.48
2:G:690:LEU:HD22	2:G:691:THR:H	1.79	0.48
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.95	0.48
2:G:1475:LEU:HD23	2:G:1476:ASP:N	2.27	0.48
2:G:1896:THR:CG2	2:G:1897:GLU:N	2.76	0.48
2:G:1977:ARG:HD2	2:G:1978:LYS:HE3	1.96	0.48
2:H:1661:GLY:HA3	2:H:1827:VAL:O	2.14	0.48
2:H:1972:ILE:H	2:H:1972:ILE:HG13	1.38	0.48
2:J:485:ASP:CB	2:J:488:PRO:CD	2.90	0.48
2:J:485:ASP:HB2	2:J:488:PRO:HD2	1.95	0.48
2:K:474:THR:HB	2:K:476:GLN:HG2	1.96	0.48
2:K:674:ILE:HD13	2:K:705:TYR:HE2	1.74	0.48
2:K:783:GLY:HA2	2:K:815:ARG:HD3	1.96	0.48
2:K:938:MET:CE	2:K:959:THR:HA	2.44	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:L:356:LEU:HB3	2:L:361:VAL:HG23	1.95	0.48
2:L:455:VAL:O	2:L:455:VAL:HG12	2.14	0.48
2:L:884:PHE:CE2	2:L:1039:GLU:HA	2.47	0.48
2:L:1299:VAL:CG2	2:L:1301:PHE:CE2	2.90	0.48
1:A:617:LEU:HD23	1:A:617:LEU:N	2.29	0.48
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.95	0.48
1:B:47:ILE:HB	2:H:1694:PHE:HD1	1.78	0.48
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.13	0.48
1:B:1389:ILE:HG13	1:D:1268:SER:CB	2.13	0.48
1:B:1390:GLY:O	1:D:1264:MET:HB3	2.14	0.48
1:C:427:ARG:NH1	1:C:492:ILE:HG13	2.29	0.48
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.41	0.48
1:C:1270:THR:HG21	1:F:1402:THR:CG2	2.44	0.48
1:D:1067:LYS:HB3	1:D:1068:TYR:CD1	2.48	0.48
1:D:1249:ILE:HD12	1:D:1250:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1610:ARG:HH11	1:D:1610:ARG:CG	1.94	0.48
1:E:444:LEU:HD22	1:E:448:MET:CG	2.44	0.48
1:E:655:ALA:CB	1:E:742:TYR:HB2	2.43	0.48
1:E:943:VAL:HG23	2:K:1539:PRO:HG3	1.96	0.48
1:E:1098:GLN:HB2	1:E:1152:LYS:HE2	1.94	0.48
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.48
1:E:1638:HIS:CG	1:E:1639:PRO:HD2	2.49	0.48
1:E:1685:ALA:HB1	1:E:1686:PRO:CD	2.44	0.48
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.49	0.48
1:F:768:ARG:HA	1:F:772:THR:OG1	2.14	0.48
1:F:942:VAL:O	2:L:1536:HIS:HB2	2.13	0.48
1:F:987:MET:O	1:F:1490:GLY:HA3	2.14	0.48
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.95	0.48
1:F:1160:VAL:HG23	1:F:1327:ALA:HB2	1.95	0.48
2:G:268:LEU:HD12	2:G:275:LEU:CD1	2.44	0.48
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.96	0.48
2:G:676:LEU:HD23	2:G:679:ARG:HH21	1.78	0.48
2:G:895:LEU:HD13	2:G:1034:LEU:HB3	1.96	0.48
2:G:1402:ASN:O	2:G:1403:ALA:HB2	2.14	0.48
2:G:1896:THR:HG22	2:G:1898:GLN:N	2.17	0.48
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.49	0.48
2:H:190:TYR:CE1	2:H:201:ILE:HG21	2.48	0.48
2:H:787:ASP:O	2:H:790:PRO:HD2	2.13	0.48
2:H:1404:VAL:CG2	2:H:1413:VAL:HG22	2.38	0.48
2:H:1492:LEU:HD22	2:H:1511:GLY:HA3	1.95	0.48
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.13	0.48
2:I:129:ILE:HG12	2:I:131:ALA:HB3	1.96	0.48
2:I:350:MET:HG3	2:I:435:ILE:HB	1.96	0.48
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.96	0.48
2:I:1048:TRP:CD1	2:I:1049:GLN:HG2	2.49	0.48
2:J:73:VAL:HA	2:J:113:PHE:HE2	1.78	0.48
2:J:215:TRP:CE3	2:J:215:TRP:N	2.82	0.48
2:J:699:ILE:HD12	2:J:699:ILE:H	1.79	0.48
2:J:723:ALA:O	2:J:726:GLN:HB2	2.13	0.48
2:J:884:PHE:CE2	2:J:1039:GLU:HA	2.47	0.48
2:J:1348:PHE:CE1	2:J:1351:VAL:HG11	2.49	0.48
2:J:1672:LYS:O	2:J:1672:LYS:HG2	2.14	0.48
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.14	0.48
2:K:205:ALA:O	2:K:209:GLN:HG3	2.14	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
2:K:1504:TYR:HD2	2:K:1507:VAL:HG11	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1621:GLU:OE2	2:K:1629:ILE:HG23	2.13	0.48
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.95	0.48
2:L:781:GLY:HA2	2:L:1071:VAL:CG1	2.39	0.48
2:L:1115:TYR:HB3	2:L:1267:PRO:CA	2.44	0.48
2:L:1359:LYS:N	2:L:1360:PRO:CD	2.77	0.48
2:L:1483:LEU:HD21	2:L:1525:VAL:HG11	1.95	0.48
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.49	0.48
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.78	0.48
1:A:689:ARG:NH2	1:A:1591:ASN:HD21	2.12	0.48
1:A:871:PHE:N	1:A:871:PHE:CD1	2.80	0.48
1:B:28:TRP:CZ2	1:B:53:LEU:HD22	2.49	0.48
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.96	0.48
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.49	0.48
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.43	0.48
1:D:1544:HIS:CG	1:D:1544:HIS:O	2.67	0.48
1:E:743:VAL:O	1:E:745:PRO:HD3	2.14	0.48
1:E:1160:VAL:HG23	1:E:1327:ALA:HB2	1.96	0.48
1:E:1303:LEU:HD23	1:E:1361:VAL:HB	1.96	0.48
1:E:1338:GLY:H	1:E:1340:MET:HG3	1.79	0.48
1:F:1574:LEU:CD1	1:F:1622:VAL:HG11	2.43	0.48
2:G:765:TYR:CB	2:G:805:MET:HE3	2.41	0.48
2:G:1403:ALA:HB2	2:G:1447:GLN:HA	1.96	0.48
2:G:1468:ARG:NH1	2:G:1468:ARG:CB	2.75	0.48
2:G:1694:PHE:CD2	2:G:1843:ALA:CA	2.96	0.48
2:H:73:VAL:HG13	2:H:113:PHE:HD2	1.78	0.48
2:H:106:LEU:HD11	2:H:143:GLY:O	2.14	0.48
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.95	0.48
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.49	0.48
2:H:1103:TYR:O	2:H:1106:LYS:HB2	2.14	0.48
2:I:271:GLU:HG2	2:I:301:TRP:NE1	2.29	0.48
2:I:1451:GLU:HG3	2:I:1541:ILE:HD11	1.96	0.48
2:J:289:ILE:HD12	2:J:472:THR:OG1	2.13	0.48
2:J:580:LEU:CD2	2:J:1095:ILE:HG22	2.44	0.48
2:J:613:VAL:N	2:J:614:PRO:CD	2.76	0.48
2:J:781:GLY:HA2	2:J:1071:VAL:CG1	2.37	0.48
2:J:1483:LEU:CD2	2:J:1525:VAL:HG11	2.44	0.48
2:J:1603:PRO:HB2	2:J:1644:LEU:HD21	1.94	0.48
2:J:1690:THR:HG22	2:J:1691:ALA:N	2.29	0.48
2:J:1881:TYR:HB2	2:J:2004:PRO:HG3	1.95	0.48
2:J:2052:LYS:HB3	2:J:2074:TRP:CZ2	2.49	0.48
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.96	0.48
2:L:182:TYR:CD1	2:L:183:PHE:N	2.82	0.48
2:L:276:LEU:HD12	2:L:298:ALA:O	2.13	0.48
2:L:731:ALA:HA	2:L:739:ILE:HD12	1.95	0.48
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.48
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.95	0.48
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.48	0.48
2:L:1812:LEU:HD21	2:L:1857:VAL:HG11	1.96	0.48
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.34	0.48
1:A:619:LYS:HG2	1:A:620:LYS:N	2.28	0.47
1:B:613:PRO:C	1:B:615:LEU:H	2.17	0.47
1:B:1129:ILE:HA	1:B:1139:THR:O	2.14	0.47
1:C:15:VAL:HG11	2:I:2022:LEU:CD2	2.44	0.47
1:D:335:LEU:HD12	1:D:335:LEU:O	2.14	0.47
1:D:694:TYR:HD2	1:D:695:TYR:CD1	2.32	0.47
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.47	0.47
1:E:408:GLN:HE22	1:E:1609:SER:H	1.62	0.47
1:E:617:LEU:HD23	1:E:617:LEU:N	2.28	0.47
1:E:1287:LEU:HA	1:E:1304:VAL:HG11	1.96	0.47
1:E:1365:ALA:O	1:E:1368:ALA:HB3	2.14	0.47
1:F:28:TRP:CZ2	1:F:53:LEU:HD22	2.48	0.47
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.14	0.47
1:F:1705:GLN:HE21	1:F:1709:GLY:HA2	1.78	0.47
2:G:119:VAL:HA	2:G:122:ILE:HG22	1.95	0.47
2:G:276:LEU:HD12	2:G:298:ALA:O	2.14	0.47
2:G:455:VAL:O	2:G:455:VAL:HG12	2.14	0.47
2:G:505:THR:O	2:G:505:THR:HG22	2.14	0.47
2:G:868:LEU:O	2:G:870:THR:HG23	2.14	0.47
2:G:1351:VAL:HG21	2:G:1583:VAL:O	2.14	0.47
2:H:401:LEU:HD22	2:H:405:LEU:HG	1.96	0.47
2:H:884:PHE:CE2	2:H:1039:GLU:HA	2.47	0.47
2:I:1728:GLU:O	2:I:1757:ILE:CD1	2.63	0.47
2:I:1871:VAL:HG21	2:I:2004:PRO:HD3	1.96	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.44	0.47
2:J:179:ILE:HG12	2:J:182:TYR:HB3	1.95	0.47
2:J:192:THR:O	2:J:194:PRO:HD3	2.14	0.47
2:J:676:LEU:HD23	2:J:679:ARG:NH2	2.28	0.47
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.47
2:J:1871:VAL:HG23	2:J:2003:VAL:HG13	1.96	0.47
2:K:116:GLY:O	2:K:561:ARG:NH1	2.47	0.47
2:K:276:LEU:HD12	2:K:298:ALA:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:676:LEU:HD23	2:K:679:ARG:HH21	1.79	0.47
2:K:980:LEU:HD21	2:K:986:LEU:HD21	1.95	0.47
2:K:1316:VAL:HG13	2:K:1348:PHE:CE2	2.49	0.47
2:K:1492:LEU:HD22	2:K:1511:GLY:HA3	1.95	0.47
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.49	0.47
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.95	0.47
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.94	0.47
1:B:586:GLN:C	1:E:538:ARG:NH2	2.65	0.47
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.42	0.47
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.96	0.47
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.32	0.47
1:C:811:ASP:OD1	1:C:811:ASP:N	2.47	0.47
1:C:828:TRP:NE1	1:C:838:THR:HA	2.29	0.47
1:C:1363:MET:HE3	1:C:1368:ALA:HA	1.95	0.47
1:C:1467:LEU:O	1:C:1471:THR:HG23	2.14	0.47
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	1.96	0.47
1:E:1321:MET:HE2	1:E:1321:MET:HB3	1.82	0.47
1:F:449:GLN:HG3	1:F:474:ILE:HD13	1.95	0.47
1:F:1386:THR:HG22	1:F:1387:ASP:N	2.30	0.47
2:G:416:GLN:HA	2:G:419:ILE:HG13	1.95	0.47
2:G:600:VAL:HG13	2:G:601:PRO:N	2.29	0.47
2:G:1404:VAL:CG2	2:G:1413:VAL:HG22	2.40	0.47
2:H:193:TYR:O	2:H:197:VAL:HG23	2.14	0.47
2:H:820:LYS:HB3	2:H:1080:ASP:O	2.14	0.47
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.96	0.47
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.28	0.47
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.49	0.47
2:I:208:LEU:HA	2:I:211:LEU:HD12	1.94	0.47
2:I:1426:VAL:HG12	2:I:1427:MET:HG2	1.96	0.47
2:I:1555:VAL:O	2:I:1555:VAL:HG12	2.14	0.47
2:I:1579:ASN:O	2:I:1583:VAL:HG23	2.14	0.47
2:I:1812:LEU:HD21	2:I:1857:VAL:HG11	1.96	0.47
2:J:36:LEU:HD23	2:J:36:LEU:HA	1.74	0.47
2:J:44:GLN:HE21	2:J:48:LEU:HD21	1.79	0.47
2:J:474:THR:HB	2:J:476:GLN:HG2	1.95	0.47
2:J:1405:ILE:HG22	2:J:1445:THR:OG1	2.14	0.47
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.13	0.47
2:J:1977:ARG:CD	2:J:1978:LYS:HE3	2.45	0.47
2:K:283:THR:HG23	2:K:470:TYR:O	2.13	0.47
2:K:1007:LEU:HD12	2:K:1007:LEU:N	2.23	0.47
2:K:1662:ARG:HG2	2:K:1686:GLU:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.50	0.47
2:L:190:TYR:CE1	2:L:201:ILE:HG21	2.49	0.47
2:L:783:GLY:HA2	2:L:815:ARG:HD3	1.96	0.47
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.49	0.47
2:L:1353:GLY:CA	2:L:1397:THR:HG21	2.42	0.47
2:L:1767:GLU:HB2	2:L:2016:PRO:CG	2.42	0.47
1:A:1050:TRP:HA	1:A:1050:TRP:CE3	2.49	0.47
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.14	0.47
1:B:1586:VAL:CG2	1:B:1617:ILE:HD11	2.44	0.47
1:B:1591:ASN:C	1:B:1593:ASP:H	2.18	0.47
1:C:623:PHE:N	1:C:623:PHE:HD2	2.13	0.47
1:D:41:THR:HA	2:J:1689:VAL:HB	1.96	0.47
1:D:613:PRO:HG2	1:D:616:HIS:HB3	1.95	0.47
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.15	0.47
1:E:1703:VAL:HG22	1:E:1712:LYS:C	2.35	0.47
1:F:439:ARG:HA	1:F:705:ARG:HG2	1.97	0.47
1:F:655:ALA:HB2	1:F:742:TYR:HB2	1.97	0.47
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.97	0.47
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.47
1:F:1592:ALA:O	1:F:1593:ASP:C	2.53	0.47
2:G:452:LEU:HD21	2:G:488:PRO:HA	1.96	0.47
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.49	0.47
2:G:1061:VAL:HG11	2:G:1066:ILE:HD11	1.95	0.47
2:G:1262:ARG:NH2	2:G:1277:VAL:HG11	2.29	0.47
2:G:1603:PRO:HB2	2:G:1644:LEU:HD21	1.96	0.47
2:H:47:GLN:HG3	2:I:23:PRO:CG	2.44	0.47
2:H:117:ASN:HA	2:H:561:ARG:CD	2.44	0.47
2:H:1199:THR:HB	2:H:1202:MET:HB3	1.96	0.47
2:H:1265:TYR:CE2	2:H:1267:PRO:HG3	2.49	0.47
2:H:1451:GLU:HG3	2:H:1541:ILE:HD11	1.97	0.47
2:H:1579:ASN:O	2:H:1583:VAL:HG23	2.14	0.47
2:H:1948:MET:HA	2:H:1948:MET:HE2	1.96	0.47
2:I:129:ILE:HG21	2:I:132:LYS:HG3	1.95	0.47
2:I:356:LEU:HB3	2:I:361:VAL:HG23	1.95	0.47
2:I:942:MET:HG2	2:I:1029:PRO:HG2	1.96	0.47
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.44	0.47
2:I:1199:THR:HB	2:I:1202:MET:HB3	1.96	0.47
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.15	0.47
2:I:1261:PHE:HA	2:I:1284:ARG:NH1	2.30	0.47
2:J:126:VAL:HG12	2:J:127:ALA:N	2.29	0.47
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:827:GLN:H	2:J:827:GLN:CD	2.17	0.47
2:J:859:SER:CB	2:J:863:GLU:HG3	2.44	0.47
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.49	0.47
2:K:388:ASN:C	2:K:388:ASN:HD22	2.17	0.47
2:K:401:LEU:HD22	2:K:405:LEU:HG	1.96	0.47
2:K:610:PRO:O	2:K:613:VAL:HG12	2.15	0.47
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.96	0.47
2:K:930:THR:HG23	2:K:933:GLU:H	1.79	0.47
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.13	0.47
2:K:1245:THR:HG23	2:K:1260:THR:OG1	2.14	0.47
2:K:1579:ASN:O	2:K:1583:VAL:HG23	2.14	0.47
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.96	0.47
2:L:665:VAL:O	2:L:665:VAL:HG12	2.14	0.47
2:L:747:ARG:HD3	2:L:1071:VAL:HG11	1.96	0.47
2:L:1348:PHE:O	2:L:1351:VAL:HG12	2.14	0.47
1:A:358:PHE:C	1:A:358:PHE:CD2	2.87	0.47
1:A:651:GLN:HA	1:A:677:GLY:HA3	1.96	0.47
1:A:1692:GLN:NE2	1:E:1388:LYS:HD3	2.29	0.47
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.50	0.47
1:C:27:ARG:HD3	2:I:2042:ASN:O	2.13	0.47
1:C:655:ALA:HB2	1:C:742:TYR:HB2	1.97	0.47
1:C:959:PRO:CD	2:I:974:GLU:HG2	2.44	0.47
1:C:973:TRP:CD1	1:C:1648:LYS:HD2	2.50	0.47
1:D:72:THR:O	1:D:73:SER:HB3	2.14	0.47
1:D:872:SER:OG	1:D:874:GLN:HG3	2.14	0.47
1:E:326:ASP:HB3	1:E:333:ARG:NH1	2.24	0.47
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.96	0.47
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.41	0.47
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	1.95	0.47
2:G:182:TYR:CD1	2:G:183:PHE:N	2.82	0.47
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.47	0.47
2:G:1348:PHE:CE1	2:G:1351:VAL:HG11	2.50	0.47
2:H:855:ILE:HD13	2:H:856:THR:N	2.23	0.47
2:H:857:VAL:CG1	2:H:876:TRP:CD1	2.97	0.47
2:H:1189:THR:O	2:H:1191:PRO:HD3	2.14	0.47
2:H:1507:VAL:O	2:H:1531:GLU:HA	2.14	0.47
2:H:1722:ALA:HB2	2:H:1812:LEU:HD11	1.94	0.47
2:H:1925:MET:HE2	2:H:1925:MET:HB3	1.71	0.47
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.50	0.47
2:I:1009:ASN:HD22	2:I:1010:ALA:N	2.12	0.47
2:I:1189:THR:O	2:I:1191:PRO:HD3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1483:LEU:HD21	2:I:1525:VAL:HG11	1.97	0.47
2:J:118:ASP:OD2	2:J:559:PHE:HB2	2.14	0.47
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.47
2:J:659:THR:HA	2:J:689:GLY:O	2.14	0.47
2:J:1335:PHE:HE1	2:J:1629:ILE:CD1	2.26	0.47
2:K:126:VAL:HG12	2:K:127:ALA:N	2.29	0.47
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.79	0.47
2:K:314:LEU:O	2:K:318:ILE:HG13	2.14	0.47
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.49	0.47
2:K:600:VAL:CG1	2:K:601:PRO:HD2	2.42	0.47
2:K:1175:MET:HE3	2:K:1192:LEU:HD11	1.97	0.47
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.43	0.47
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.58	0.47
2:K:1588:ASN:OD1	2:K:1589:PRO:HD2	2.15	0.47
2:L:580:LEU:O	2:L:581:VAL:HG23	2.13	0.47
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.49	0.47
2:L:827:GLN:H	2:L:827:GLN:CD	2.15	0.47
2:L:912:LYS:NZ	2:L:1044:LYS:O	2.47	0.47
2:L:1120:ILE:CD1	2:L:1169:TYR:CE1	2.97	0.47
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.05	0.47
1:A:548:VAL:CG2	1:F:569:LEU:HD13	2.42	0.47
1:A:743:VAL:O	1:A:745:PRO:HD3	2.15	0.47
1:A:1270:THR:HG21	1:E:1402:THR:HG21	1.97	0.47
1:B:15:VAL:HG11	2:H:2022:LEU:CD2	2.45	0.47
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.32	0.47
1:B:72:THR:O	1:B:73:SER:HB3	2.14	0.47
1:B:628:TYR:CD1	1:B:628:TYR:C	2.88	0.47
1:B:648:LEU:HD12	1:B:649:THR:N	2.29	0.47
1:B:829:TYR:OH	1:B:896:PRO:HD2	2.15	0.47
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.50	0.47
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.44	0.47
1:C:414:TYR:C	1:C:414:TYR:CD2	2.88	0.47
1:C:427:ARG:O	1:C:430:VAL:HB	2.15	0.47
1:C:683:THR:HB	1:C:714:PHE:CB	2.38	0.47
1:C:788:ARG:HB2	1:C:790:TYR:CD2	2.50	0.47
1:D:40:ARG:HH21	1:D:74:VAL:CG2	2.20	0.47
1:D:358:PHE:C	1:D:358:PHE:CD2	2.87	0.47
1:D:701:ARG:HH11	1:D:1610:ARG:NH2	2.12	0.47
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.80	0.47
1:E:553:ARG:HH21	1:E:567:ASN:HD21	1.60	0.47
1:E:1199:LEU:C	1:E:1201:SER:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.49	0.47
1:F:623:PHE:N	1:F:623:PHE:HD2	2.12	0.47
1:F:983:GLN:O	1:F:1418:ILE:HD11	2.13	0.47
1:F:1565:PRO:CG	1:F:1572:TRP:CZ3	2.95	0.47
1:F:1622:VAL:O	1:F:1622:VAL:HG13	2.13	0.47
2:G:24:LEU:CD1	2:G:45:ALA:HB1	2.44	0.47
2:G:506:VAL:O	2:G:506:VAL:HG22	2.15	0.47
2:G:544:ALA:O	2:G:554:TYR:HB3	2.14	0.47
2:G:674:ILE:HB	2:G:675:PRO:HD3	1.96	0.47
2:G:747:ARG:HD3	2:G:1071:VAL:HG11	1.96	0.47
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.15	0.47
2:G:1348:PHE:O	2:G:1351:VAL:HG12	2.14	0.47
2:H:215:TRP:HE3	2:H:215:TRP:N	2.12	0.47
2:H:805:MET:HB3	2:H:805:MET:HE2	1.83	0.47
2:H:868:LEU:HD13	2:H:1068:GLN:HG3	1.95	0.47
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.47
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.66	0.47
2:I:1382:MET:CB	2:I:1633:ARG:HH11	2.28	0.47
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.49	0.47
2:I:1863:ARG:HB2	2:I:2017:PHE:CE1	2.49	0.47
2:I:1871:VAL:CG2	2:I:2004:PRO:HD3	2.44	0.47
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.96	0.47
2:I:1947:LYS:HG3	2:I:1948:MET:HE2	1.96	0.47
2:J:1048:TRP:CD1	2:J:1049:GLN:HG2	2.49	0.47
2:J:1694:PHE:CD2	2:J:1843:ALA:CA	2.95	0.47
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.36	0.47
2:K:129:ILE:HG21	2:K:132:LYS:HG3	1.95	0.47
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.97	0.47
2:K:652:ILE:CG2	2:K:656:ARG:HB2	2.44	0.47
2:K:938:MET:HE2	2:K:959:THR:HA	1.95	0.47
2:K:1475:LEU:HA	2:K:1526:ALA:HB2	1.97	0.47
2:K:1543:TYR:HD2	2:K:1544:LEU:HD23	1.78	0.47
2:L:555:LYS:HB3	2:L:556:PRO:HD3	1.96	0.47
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	1.96	0.47
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.63	0.47
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.96	0.47
1:A:1249:ILE:HD12	1:A:1250:LEU:N	2.30	0.47
1:B:557:ARG:HH11	1:E:558:LEU:HD23	1.80	0.47
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.39	0.47
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.14	0.47
1:C:326:ASP:HB3	1:C:333:ARG:NH1	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:335:LEU:HD13	1:E:342:ILE:HG22	1.97	0.47
1:C:667:ALA:O	1:C:671:GLN:HG3	2.14	0.47
1:D:1491:ASN:HD22	1:D:1491:ASN:N	2.12	0.47
1:E:358:PHE:C	1:E:358:PHE:CD2	2.87	0.47
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.47
1:E:621:ASP:HB3	1:E:625:ASN:H	1.79	0.47
1:E:655:ALA:HB2	1:E:742:TYR:HB2	1.97	0.47
1:E:768:ARG:HA	1:E:772:THR:OG1	2.14	0.47
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.38	0.47
1:E:1386:THR:HG22	1:E:1387:ASP:H	1.80	0.47
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.95	0.47
1:F:427:ARG:NH1	1:F:492:ILE:HG13	2.28	0.47
1:F:453:ASP:HB2	1:F:454:HIS:HD2	1.79	0.47
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.40	0.47
2:G:208:LEU:HD12	2:G:227:ILE:HD11	1.96	0.47
2:G:1238:GLY:O	2:G:1239:ASP:OD1	2.33	0.47
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.45	0.47
2:G:2062:THR:HG22	2:G:2064:SER:N	2.30	0.47
2:H:582:LYS:HA	2:H:587:GLN:O	2.14	0.47
2:H:674:ILE:HB	2:H:675:PRO:HD3	1.97	0.47
2:H:731:ALA:HA	2:H:739:ILE:HD12	1.97	0.47
2:I:421:PHE:C	2:I:423:GLN:H	2.17	0.47
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.28	0.47
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.47
2:I:915:PHE:O	2:I:915:PHE:CG	2.68	0.47
2:I:1622:THR:O	2:I:1626:GLU:HA	2.14	0.47
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.14	0.47
2:J:205:ALA:O	2:J:209:GLN:HG3	2.14	0.47
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.49	0.47
2:J:580:LEU:HD12	2:J:1103:TYR:CD2	2.49	0.47
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.97	0.47
2:J:1441:ASP:C	2:J:1443:GLU:H	2.18	0.47
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.44	0.47
2:J:1722:ALA:HB2	2:J:1812:LEU:HD11	1.95	0.47
2:J:1818:PHE:HE2	2:J:1822:ARG:NH1	2.13	0.47
2:J:2053:GLU:H	2:J:2053:GLU:HG3	1.44	0.47
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.44	0.47
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.96	0.47
2:L:350:MET:HE2	2:L:435:ILE:HD12	1.97	0.47
2:L:595:SER:CB	2:L:602:PRO:HG3	2.30	0.47
2:L:930:THR:HG22	2:L:933:GLU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1266:HIS:CD2	2:L:1266:HIS:N	2.83	0.47
2:L:1285:ILE:O	2:L:1288:PHE:HB3	2.15	0.47
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.14	0.47
2:L:1442:TYR:CA	2:L:1445:THR:HG22	2.43	0.47
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.24	0.47
1:A:541:VAL:O	1:A:545:LEU:HG	2.14	0.47
1:A:744:VAL:HG13	1:A:746:PHE:CE1	2.50	0.47
1:A:1164:ILE:HD13	1:A:1355:GLN:HG3	1.96	0.47
1:A:1287:LEU:HA	1:A:1304:VAL:HG11	1.97	0.47
1:A:1386:THR:HB	1:E:1269:SER:O	2.14	0.47
1:A:1544:HIS:CG	1:A:1544:HIS:O	2.67	0.47
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.43	0.47
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.83	0.47
1:B:623:PHE:N	1:B:623:PHE:HD2	2.11	0.47
1:B:929:ARG:O	1:B:933:ILE:HG13	2.15	0.47
1:B:943:VAL:HG23	2:H:1539:PRO:HG3	1.95	0.47
1:B:1522:PHE:HE2	1:B:1535:SER:HA	1.80	0.47
1:B:1560:TYR:CE2	1:B:1589:ASN:HA	2.50	0.47
1:C:458:GLU:CD	1:C:458:GLU:H	2.18	0.47
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.45	0.47
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.97	0.47
1:C:983:GLN:O	1:C:1418:ILE:HD11	2.15	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
1:C:1475:GLU:HB3	1:C:1479:ARG:NH2	2.30	0.47
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.23	0.47
1:D:1149:LEU:HD23	1:D:1149:LEU:HA	1.74	0.47
1:E:14:LEU:HD21	2:K:1844:LEU:CD2	2.44	0.47
1:E:744:VAL:HG13	1:E:746:PHE:CE1	2.50	0.47
1:E:999:LEU:HD11	1:E:1575:ASN:CB	2.45	0.47
1:E:1432:ILE:HD11	1:E:1481:GLN:CB	2.45	0.47
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.50	0.47
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.96	0.47
1:F:447:PHE:CE1	1:F:451:HIS:NE2	2.83	0.47
1:F:543:ASN:O	1:F:546:ARG:HB2	2.15	0.47
1:F:628:TYR:CD1	1:F:629:SER:N	2.75	0.47
1:F:1394:PRO:HB3	1:F:1627:PHE:CE2	2.50	0.47
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	2.15	0.47
1:F:1603:ASP:HB2	1:F:1604:TYR:CD2	2.49	0.47
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.49	0.47
2:G:159:PHE:CE1	2:G:268:LEU:HD11	2.50	0.47
2:G:609:THR:CB	2:G:610:PRO:HD3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.97	0.47
2:G:1335:PHE:CE1	2:G:1629:ILE:CD1	2.96	0.47
2:G:1886:VAL:CG1	2:G:1900:LEU:HD11	2.45	0.47
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.50	0.47
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.95	0.47
2:H:205:ALA:O	2:H:209:GLN:HG3	2.14	0.47
2:H:220:GLN:NE2	2:H:324:GLN:HG2	2.30	0.47
2:H:356:LEU:HD23	2:H:356:LEU:HA	1.67	0.47
2:H:465:LEU:HA	2:H:465:LEU:HD23	1.73	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.44	0.47
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.96	0.47
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.15	0.47
2:H:1896:THR:CG2	2:H:1897:GLU:N	2.77	0.47
2:I:613:VAL:H	2:I:614:PRO:HD3	1.78	0.47
2:I:1067:LEU:HD12	2:I:1067:LEU:H	1.80	0.47
2:I:1115:TYR:CZ	2:I:1174:ALA:HB2	2.50	0.47
2:I:1249:GLY:HA2	2:I:1256:VAL:HG22	1.97	0.47
2:I:2050:ILE:HG12	2:I:2050:ILE:O	2.14	0.47
2:J:401:LEU:HD22	2:J:405:LEU:HG	1.96	0.47
2:J:612:THR:CG2	2:J:629:GLU:O	2.62	0.47
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.15	0.47
2:J:652:ILE:HG23	2:J:653:PRO:HD2	1.97	0.47
2:J:664:TYR:CD1	2:J:670:MET:HE1	2.50	0.47
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.66	0.47
2:J:740:ILE:HD12	2:J:740:ILE:N	2.30	0.47
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.47
2:J:1245:THR:HG23	2:J:1260:THR:OG1	2.15	0.47
2:J:1662:ARG:HG2	2:J:1686:GLU:HG2	1.96	0.47
2:J:1977:ARG:HD2	2:J:1978:LYS:HE3	1.95	0.47
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.38	0.47
2:K:158:LEU:HD12	2:K:558:LEU:HD23	1.96	0.47
2:K:246:ALA:HB3	2:K:247:PRO:HD3	1.97	0.47
2:K:665:VAL:O	2:K:665:VAL:HG12	2.15	0.47
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.97	0.47
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.65	0.47
2:K:1097:PHE:CD2	2:K:1100:ARG:NH1	2.82	0.47
2:K:1103:TYR:O	2:K:1106:LYS:HB2	2.15	0.47
2:K:1199:THR:HB	2:K:1202:MET:HB3	1.96	0.47
2:K:1249:GLY:HA2	2:K:1256:VAL:HG22	1.95	0.47
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.47
2:K:1622:THR:O	2:K:1626:GLU:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.15	0.47
2:L:73:VAL:HA	2:L:113:PHE:HE2	1.80	0.47
2:L:271:GLU:HG2	2:L:301:TRP:NE1	2.30	0.47
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.45	0.47
2:L:787:ASP:O	2:L:790:PRO:HD2	2.15	0.47
2:L:938:MET:CE	2:L:959:THR:HA	2.45	0.47
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.29	0.47
2:L:1238:GLY:O	2:L:1239:ASP:OD1	2.32	0.47
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.72	0.47
2:L:1504:TYR:HD2	2:L:1507:VAL:HG11	1.79	0.47
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.44	0.47
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.50	0.47
1:A:340:LEU:HD22	1:A:351:LEU:HD11	1.97	0.47
1:A:414:TYR:O	1:A:418:ILE:HG13	2.15	0.47
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.15	0.47
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.50	0.47
1:B:389:PRO:HD3	1:E:374:LEU:HD11	1.96	0.47
1:B:1264:MET:HB3	1:D:1390:GLY:O	2.15	0.47
1:B:1386:THR:HG22	1:B:1387:ASP:N	2.30	0.47
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.50	0.47
1:D:36:LEU:CD2	1:D:44:ILE:HD11	2.44	0.47
1:D:655:ALA:O	1:D:680:VAL:HA	2.15	0.47
1:D:712:VAL:HG13	1:D:713:PRO:HD2	1.97	0.47
1:D:1212:TYR:CD2	1:D:1371:MET:HG2	2.50	0.47
1:D:1220:ASN:HB3	1:D:1273:ILE:HG22	1.97	0.47
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.15	0.47
1:D:1574:LEU:O	1:D:1578:LEU:HG	2.15	0.47
1:E:1359:VAL:CG1	1:E:1360:GLN:N	2.78	0.47
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.45	0.47
1:F:875:GLU:O	1:F:878:PHE:HB3	2.15	0.47
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.88	0.47
1:F:1050:TRP:HA	1:F:1050:TRP:CE3	2.49	0.47
1:F:1586:VAL:CG2	1:F:1617:ILE:HD11	2.45	0.47
2:G:613:VAL:N	2:G:614:PRO:CD	2.78	0.47
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.47
2:G:759:GLN:N	2:G:760:PRO:CD	2.78	0.47
2:G:1093:ASP:O	2:G:1097:PHE:CD1	2.67	0.47
2:G:1483:LEU:CD2	2:G:1525:VAL:HG11	2.45	0.47
2:G:1868:GLN:HG2	2:G:1873:ARG:NH2	2.29	0.47
2:G:1977:ARG:CD	2:G:1978:LYS:HE3	2.45	0.47
2:H:129:ILE:HG12	2:H:131:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:179:ILE:HG12	2:H:182:TYR:HB3	1.95	0.47
2:H:859:SER:CB	2:H:863:GLU:HG3	2.45	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.49	0.47
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.15	0.47
2:I:1093:ASP:O	2:I:1097:PHE:HB2	2.15	0.47
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.97	0.47
2:I:1305:LEU:HD11	2:I:1365:LYS:CD	2.37	0.47
2:J:27:THR:HG22	2:J:32:GLU:CD	2.35	0.47
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.50	0.47
2:J:1093:ASP:O	2:J:1097:PHE:HB2	2.15	0.47
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.80	0.47
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.38	0.47
2:K:179:ILE:HG12	2:K:182:TYR:HB3	1.96	0.47
2:K:662:LEU:HD22	2:K:673:GLN:OE1	2.15	0.47
2:K:911:GLN:HE21	2:K:1065:CYS:H	1.62	0.47
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.95	0.47
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.97	0.47
2:K:1468:ARG:NH1	2:K:1468:ARG:CB	2.75	0.47
2:L:106:LEU:HD11	2:L:143:GLY:O	2.15	0.47
2:L:676:LEU:HD23	2:L:679:ARG:HH21	1.80	0.47
2:L:1593:SER:HG	2:L:1596:PHE:HB2	1.80	0.47
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.62	0.47
2:L:1863:ARG:HB2	2:L:2017:PHE:HE1	1.80	0.47
2:L:2038:LYS:HD3	2:L:2038:LYS:HA	1.73	0.47
1:A:29:ILE:HD11	2:G:1922:VAL:CA	2.45	0.47
1:A:449:GLN:HG3	1:A:474:ILE:HD13	1.97	0.47
1:A:453:ASP:HB2	1:A:454:HIS:HD2	1.80	0.47
1:A:1473:HIS:C	1:A:1473:HIS:ND1	2.68	0.47
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.50	0.47
1:C:555:GLN:HG2	1:C:557:ARG:NH2	2.29	0.47
1:C:1149:LEU:HD12	1:F:1097:LEU:CD1	2.44	0.47
1:C:1592:ALA:O	1:C:1593:ASP:C	2.53	0.47
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.28	0.47
1:D:470:GLY:O	1:D:474:ILE:HG13	2.15	0.47
1:D:541:VAL:O	1:D:545:LEU:HG	2.14	0.47
1:D:621:ASP:HB3	1:D:625:ASN:H	1.79	0.47
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.97	0.47
1:D:1457:GLU:H	1:D:1457:GLU:HG3	1.42	0.47
1:E:349:MET:HG3	1:E:349:MET:O	2.15	0.47
1:E:918:LEU:HA	1:E:921:GLU:HG2	1.97	0.47
1:E:994:VAL:HG21	1:E:1291:TYR:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.98	0.47
1:F:871:PHE:N	1:F:871:PHE:CD1	2.83	0.47
1:F:902:ASN:O	1:F:904:GLY:N	2.44	0.47
1:F:1493:PHE:HE2	1:F:1509:THR:HG22	1.80	0.47
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.15	0.47
2:G:80:ILE:HG12	2:G:105:ILE:HG22	1.97	0.47
2:G:342:ASN:CB	2:G:406:ARG:NH2	2.77	0.47
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.97	0.47
2:G:610:PRO:O	2:G:613:VAL:HG12	2.15	0.47
2:G:676:LEU:HD23	2:G:679:ARG:NH2	2.30	0.47
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.97	0.47
2:G:1661:GLY:HA3	2:G:1827:VAL:O	2.15	0.47
2:H:37:VAL:HG11	2:H:42:HIS:HA	1.97	0.47
2:H:73:VAL:HA	2:H:113:PHE:HE2	1.80	0.47
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.96	0.47
2:H:699:ILE:H	2:H:699:ILE:CD1	2.28	0.47
2:H:792:LEU:O	2:H:792:LEU:HD12	2.14	0.47
2:H:1146:LEU:O	2:H:1201:GLY:HA2	2.15	0.47
2:H:1224:GLN:HG3	2:H:1578:GLU:OE2	2.15	0.47
2:H:1305:LEU:HD23	2:H:1366:ILE:CD1	2.43	0.47
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.15	0.47
2:H:1346:MET:HG2	2:H:1617:ARG:NH2	2.30	0.47
2:I:193:TYR:O	2:I:197:VAL:HG23	2.15	0.47
2:I:274:GLU:O	2:I:278:ARG:HG2	2.15	0.47
2:I:489:GLU:HG2	2:I:492:ARG:CZ	2.45	0.47
2:I:796:TRP:CH2	2:I:805:MET:HE1	2.49	0.47
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.97	0.47
2:J:544:ALA:O	2:J:554:TYR:HB3	2.15	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.14	0.47
2:J:1276:GLU:HB3	2:J:1278:MET:HE2	1.97	0.47
2:J:1305:LEU:HD23	2:J:1366:ILE:CG1	2.44	0.47
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.49	0.47
2:K:197:VAL:CG2	2:K:263:ILE:HD11	2.44	0.47
2:K:356:LEU:HD23	2:K:356:LEU:HA	1.71	0.47
2:K:544:ALA:O	2:K:554:TYR:HB3	2.15	0.47
2:K:615:TRP:CE3	2:K:647:LYS:HB3	2.50	0.47
2:K:834:ASP:O	2:K:836:PRO:HD3	2.15	0.47
2:K:1507:VAL:O	2:K:1531:GLU:HA	2.14	0.47
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.15	0.47
2:L:388:ASN:HD22	2:L:389:PHE:N	2.13	0.47
2:L:474:THR:HB	2:L:476:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:544:ALA:O	2:L:554:TYR:HB3	2.15	0.47
2:L:949:ARG:HH22	2:L:1052:ASP:CG	2.18	0.47
2:L:979:LEU:CD2	2:L:999:ALA:HB3	2.45	0.47
2:L:1048:TRP:CE2	2:L:1049:GLN:HG2	2.50	0.47
2:L:1555:VAL:HG12	2:L:1555:VAL:O	2.14	0.47
1:A:36:LEU:O	1:A:76:ARG:NH2	2.46	0.47
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.97	0.47
1:B:378:GLU:OE1	1:E:718:SER:HA	2.14	0.47
1:B:427:ARG:O	1:B:430:VAL:HB	2.15	0.47
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.44	0.47
1:B:902:ASN:O	1:B:904:GLY:N	2.47	0.47
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.33	0.47
1:B:1359:VAL:CG1	1:B:1360:GLN:N	2.78	0.47
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.47
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.97	0.47
1:C:430:VAL:HG11	1:C:490:VAL:HG11	1.95	0.47
1:C:432:GLN:O	1:C:436:ILE:HG13	2.15	0.47
1:D:28:TRP:CZ2	1:D:53:LEU:HD22	2.50	0.47
1:D:443:LEU:H	1:D:443:LEU:HD12	1.79	0.47
1:E:72:THR:O	1:E:73:SER:HB3	2.15	0.47
1:E:447:PHE:HA	1:E:1550:GLY:O	2.15	0.47
1:E:1143:ARG:HH21	1:F:356:LYS:NZ	2.12	0.47
1:E:1209:PHE:CZ	1:E:1301:VAL:HG21	2.50	0.47
1:F:1359:VAL:HG12	1:F:1360:GLN:N	2.30	0.47
2:G:179:ILE:HG12	2:G:182:TYR:HB3	1.97	0.47
2:G:276:LEU:HD13	2:G:466:VAL:HG21	1.96	0.47
2:G:595:SER:CB	2:G:602:PRO:HG3	2.31	0.47
2:G:1048:TRP:CD1	2:G:1049:GLN:HG2	2.50	0.47
2:G:1137:ARG:HB3	2:G:1142:ILE:HG23	1.96	0.47
2:G:1266:HIS:CD2	2:G:1266:HIS:N	2.83	0.47
2:H:747:ARG:HD3	2:H:1071:VAL:HG11	1.97	0.47
2:H:1361:ILE:HD11	2:H:1433:PHE:CD2	2.50	0.47
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.15	0.47
2:I:179:ILE:HG12	2:I:182:TYR:HB3	1.97	0.47
2:I:699:ILE:HD12	2:I:699:ILE:H	1.80	0.47
2:I:1262:ARG:NH2	2:I:1277:VAL:HG11	2.29	0.47
2:J:106:LEU:HD11	2:J:143:GLY:O	2.15	0.47
2:J:690:LEU:HD22	2:J:691:THR:H	1.80	0.47
2:J:703:ASN:O	2:J:707:GLN:HG3	2.15	0.47
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.35	0.47
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:192:THR:O	2:K:194:PRO:HD3	2.15	0.47
2:K:468:PRO:HB3	2:K:477:ASP:OD2	2.14	0.47
2:K:604:MET:HG3	2:K:627:HIS:O	2.15	0.47
2:K:605:VAL:HG13	2:K:816:MET:HG3	1.96	0.47
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.49	0.47
2:K:884:PHE:CE2	2:K:1039:GLU:HA	2.50	0.47
2:K:1091:HIS:O	2:K:1094:HIS:HB2	2.15	0.47
2:K:1335:PHE:N	2:K:1335:PHE:CD1	2.83	0.47
2:K:1722:ALA:HB2	2:K:1812:LEU:HD11	1.97	0.47
2:L:645:ILE:HD13	2:L:687:ILE:HD11	1.95	0.47
2:L:1305:LEU:H	2:L:1305:LEU:CD1	2.25	0.47
1:A:470:GLY:O	1:A:474:ILE:HG13	2.14	0.46
1:A:613:PRO:HD3	1:A:628:TYR:CE2	2.50	0.46
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.97	0.46
1:A:999:LEU:HD11	1:A:1575:ASN:CB	2.46	0.46
1:A:1432:ILE:HD11	1:A:1481:GLN:CB	2.45	0.46
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.97	0.46
1:B:995:VAL:HG13	1:B:1375:ILE:HG23	1.97	0.46
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.15	0.46
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.15	0.46
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.43	0.46
1:C:1359:VAL:HG12	1:C:1360:GLN:N	2.30	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.49	0.46
1:D:995:VAL:CG1	1:D:1375:ILE:HG23	2.45	0.46
1:E:539:THR:O	1:E:542:GLN:HG2	2.15	0.46
1:E:1078:ILE:HB	1:E:1338:GLY:HA3	1.96	0.46
1:E:1213:VAL:HG13	1:E:1217:GLU:OE1	2.15	0.46
1:E:1457:GLU:H	1:E:1457:GLU:HG3	1.41	0.46
1:F:326:ASP:HB3	1:F:333:ARG:NH1	2.24	0.46
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.50	0.46
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.15	0.46
1:F:855:ALA:CA	1:F:919:ARG:HH21	2.13	0.46
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.49	0.46
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.51	0.46
2:G:271:GLU:HG2	2:G:301:TRP:NE1	2.29	0.46
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.97	0.46
2:G:485:ASP:HB2	2:G:488:PRO:HD2	1.96	0.46
2:G:1851:MET:HE1	2:G:2024:LYS:HB3	1.97	0.46
2:H:487:ILE:HB	2:H:488:PRO:CD	2.40	0.46
2:H:664:TYR:CD1	2:H:670:MET:HE1	2.50	0.46
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1160:PHE:O	2:H:1164:ILE:HG13	2.14	0.46
2:H:1261:PHE:HA	2:H:1284:ARG:NH1	2.30	0.46
2:I:159:PHE:CZ	2:I:275:LEU:HD21	2.50	0.46
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.44	0.46
2:I:1350:ILE:HA	2:I:1350:ILE:HD13	1.73	0.46
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.15	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:J:604:MET:HG3	2:J:627:HIS:O	2.15	0.46
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.50	0.46
2:J:875:PHE:HE2	2:J:906:LEU:CD2	2.27	0.46
2:J:1207:THR:O	2:J:1215:THR:HA	2.15	0.46
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.79	0.46
2:J:1462:GLN:O	2:J:1466:VAL:HG23	2.15	0.46
2:J:1812:LEU:HD21	2:J:1857:VAL:HG11	1.97	0.46
2:K:1406:ASN:HB3	2:K:1411:LYS:HG3	1.96	0.46
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.45	0.46
2:L:102:LEU:O	2:L:106:LEU:HG	2.15	0.46
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	1.97	0.46
2:L:2050:ILE:O	2:L:2050:ILE:HG12	2.14	0.46
1:A:533:SER:HB3	1:A:907:PHE:CE2	2.51	0.46
1:A:965:TYR:CZ	1:A:1199:LEU:CD2	2.98	0.46
1:A:1052:ASP:HB3	1:A:1055:THR:HG23	1.96	0.46
1:A:1553:VAL:HG22	1:A:1604:TYR:O	2.15	0.46
1:B:1159:LEU:HD12	1:B:1327:ALA:HB3	1.96	0.46
1:B:1493:PHE:HE2	1:B:1509:THR:HG22	1.80	0.46
1:C:994:VAL:HG21	1:C:1291:TYR:CD1	2.50	0.46
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.96	0.46
1:D:653:LYS:HD3	1:D:742:TYR:CE2	2.49	0.46
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.98	0.46
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.41	0.46
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.35	0.46
1:D:1565:PRO:CG	1:D:1572:TRP:CZ3	2.95	0.46
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.97	0.46
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.98	0.46
1:F:1129:ILE:HA	1:F:1139:THR:O	2.15	0.46
1:F:1381:MET:HG2	1:F:1382:THR:N	2.29	0.46
2:G:106:LEU:HD11	2:G:143:GLY:O	2.15	0.46
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.50	0.46
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.46
2:G:1519:THR:OG1	2:G:1521:GLU:HG2	2.14	0.46
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1762:MET:HG2	2:G:1779:LYS:NZ	2.29	0.46
2:H:740:ILE:H	2:H:740:ILE:HD12	1.80	0.46
2:H:1427:MET:HG3	2:H:1427:MET:O	2.15	0.46
2:H:1745:LEU:HB3	2:H:1799:LEU:HD22	1.96	0.46
2:H:1863:ARG:HB2	2:H:2017:PHE:HE1	1.80	0.46
2:H:1904:VAL:HG22	2:H:1939:LEU:HD22	1.97	0.46
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.51	0.46
2:I:783:GLY:HA2	2:I:815:ARG:HD3	1.95	0.46
2:I:1156:ASP:CB	2:I:1159:SER:H	2.18	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.12	0.46
2:J:1305:LEU:H	2:J:1305:LEU:CD1	2.28	0.46
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.98	0.46
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.16	0.46
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.16	0.46
2:K:458:MET:C	2:K:459:LYS:HG3	2.34	0.46
2:K:703:ASN:O	2:K:707:GLN:HG3	2.16	0.46
2:K:818:THR:HG22	2:K:829:LYS:HB3	1.96	0.46
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.15	0.46
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.70	0.46
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.14	0.46
2:L:22:ARG:CG	2:L:39:THR:HA	2.42	0.46
2:L:274:GLU:O	2:L:278:ARG:HG2	2.16	0.46
2:L:859:SER:CB	2:L:863:GLU:HG3	2.44	0.46
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.97	0.46
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.30	0.46
1:A:553:ARG:HH21	1:A:567:ASN:HD21	1.62	0.46
1:B:537:ASN:O	1:B:541:VAL:HG23	2.15	0.46
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.98	0.46
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.44	0.46
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.49	0.46
1:C:1696:PHE:O	1:F:1402:THR:HG22	2.15	0.46
1:D:552:ILE:HG21	1:D:566:PHE:CE2	2.50	0.46
1:D:1176:PRO:O	1:D:1180:ILE:HG12	2.15	0.46
1:E:335:LEU:HD12	1:E:335:LEU:O	2.15	0.46
1:E:973:TRP:CD1	1:E:1648:LYS:HD2	2.50	0.46
1:E:1137:GLN:NE2	1:E:1137:GLN:HA	2.30	0.46
1:F:701:ARG:NH1	1:F:1610:ARG:NH2	2.63	0.46
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.98	0.46
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	1.98	0.46
2:G:205:ALA:O	2:G:209:GLN:HG3	2.14	0.46
2:G:283:THR:HG23	2:G:470:TYR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:612:THR:O	2:G:612:THR:HG22	2.15	0.46
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.15	0.46
2:G:1160:PHE:CE1	2:G:1164:ILE:HD11	2.50	0.46
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.31	0.46
2:G:1359:LYS:N	2:G:1360:PRO:CD	2.77	0.46
2:G:1631:ARG:HA	2:G:1686:GLU:HB2	1.96	0.46
2:H:276:LEU:HD12	2:H:298:ALA:O	2.15	0.46
2:H:290:VAL:HA	2:H:490:LEU:CD1	2.43	0.46
2:H:388:ASN:HD22	2:H:389:PHE:N	2.13	0.46
2:H:447:ALA:O	2:H:451:ILE:HG13	2.15	0.46
2:H:1156:ASP:HB2	2:H:1159:SER:N	2.20	0.46
2:H:1305:LEU:HD23	2:H:1366:ILE:CG1	2.45	0.46
2:H:1812:LEU:HD21	2:H:1857:VAL:HG11	1.97	0.46
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.96	0.46
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.97	0.46
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.39	0.46
2:J:189:ILE:HD13	2:J:259:ALA:HB3	1.97	0.46
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.45	0.46
2:J:1361:ILE:HD11	2:J:1433:PHE:CD2	2.51	0.46
2:J:1863:ARG:HB2	2:J:2017:PHE:HE1	1.80	0.46
2:K:120:HIS:CD2	2:K:137:VAL:CG1	2.97	0.46
2:K:699:ILE:HD12	2:K:699:ILE:N	2.30	0.46
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.45	0.46
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.50	0.46
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.79	0.46
2:L:129:ILE:HG12	2:L:131:ALA:HB3	1.98	0.46
2:L:1048:TRP:CD1	2:L:1049:GLN:HG2	2.50	0.46
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.15	0.46
2:L:1887:ASN:ND2	2:L:1890:ARG:HG3	2.30	0.46
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.51	0.46
1:A:628:TYR:CD1	1:A:628:TYR:C	2.89	0.46
1:A:1038:HIS:CE1	1:A:1042:LEU:HG	2.50	0.46
1:A:1603:ASP:HB2	1:A:1604:TYR:CD2	2.51	0.46
1:B:340:LEU:HD22	1:B:351:LEU:HD11	1.98	0.46
1:B:414:TYR:O	1:B:418:ILE:HG13	2.16	0.46
1:B:421:ARG:HH22	1:B:1613:LYS:CG	2.29	0.46
1:B:768:ARG:HA	1:B:772:THR:OG1	2.15	0.46
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.41	0.46
1:D:574:ILE:HD13	1:D:584:ILE:HB	1.96	0.46
1:D:580:ASN:OD1	1:D:583:GLN:HB2	2.15	0.46
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1262:VAL:HG12	1:D:1267:LEU:HD21	1.98	0.46
1:D:1394:PRO:HB3	1:D:1627:PHE:CE2	2.50	0.46
1:E:1544:HIS:CG	1:E:1544:HIS:O	2.68	0.46
1:F:1343:PRO:HA	1:F:1526:SER:HA	1.97	0.46
1:F:1504:ARG:NH2	1:F:1545:LEU:O	2.48	0.46
2:G:27:THR:HG22	2:G:32:GLU:CD	2.36	0.46
2:G:120:HIS:CD2	2:G:137:VAL:HG11	2.51	0.46
2:G:279:PHE:HB2	2:G:467:ILE:HD12	1.97	0.46
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.98	0.46
2:G:1301:PHE:HD1	2:G:1364:ARG:HG2	1.81	0.46
2:G:1672:LYS:O	2:G:1672:LYS:HG2	2.14	0.46
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.46	0.46
2:H:857:VAL:HG11	2:H:876:TRP:CD1	2.50	0.46
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.97	0.46
2:H:1464:LEU:HD11	2:H:1468:ARG:HD2	1.98	0.46
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.98	0.46
2:I:1692:TYR:O	2:I:1833:PHE:HA	2.15	0.46
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.16	0.46
2:J:1402:ASN:O	2:J:1403:ALA:HB2	2.15	0.46
2:J:1851:MET:HE1	2:J:2024:LYS:HB3	1.97	0.46
2:K:129:ILE:HG12	2:K:131:ALA:HB3	1.97	0.46
2:K:1442:TYR:HA	2:K:1445:THR:HG22	1.97	0.46
2:L:170:TYR:CD2	2:L:507:PHE:HB3	2.50	0.46
2:L:468:PRO:HD3	2:L:479:ARG:HH21	1.77	0.46
2:L:485:ASP:HB2	2:L:488:PRO:HD2	1.91	0.46
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.31	0.46
2:L:1346:MET:HG2	2:L:1617:ARG:NH2	2.30	0.46
2:L:1468:ARG:NH1	2:L:1468:ARG:CB	2.76	0.46
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.97	0.46
1:A:1414:PRO:HD2	1:E:1473:HIS:CD2	2.50	0.46
1:B:1587:PRO:HA	1:B:1611:SER:OG	2.14	0.46
1:B:1610:ARG:NH1	1:B:1610:ARG:CG	2.58	0.46
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.50	0.46
1:C:726:VAL:HG21	1:C:780:ALA:CB	2.46	0.46
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.51	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
1:E:414:TYR:O	1:E:418:ILE:HG13	2.15	0.46
1:E:447:PHE:CE1	1:E:451:HIS:NE2	2.84	0.46
1:E:833:TRP:CH2	1:E:839:ILE:HD11	2.49	0.46
1:E:1363:MET:HE2	1:E:1363:MET:HB2	1.57	0.46
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1525:THR:O	1:F:1526:SER:HB3	2.16	0.46
2:G:911:GLN:HE21	2:G:1065:CYS:H	1.62	0.46
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.51	0.46
2:H:703:ASN:O	2:H:707:GLN:HG3	2.15	0.46
2:H:741:LEU:O	2:H:741:LEU:HG	2.16	0.46
2:H:788:THR:HG21	2:H:810:CYS:SG	2.55	0.46
2:H:1353:GLY:CA	2:H:1397:THR:HG21	2.45	0.46
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.15	0.46
2:I:208:LEU:HB3	2:I:225:LEU:HD13	1.98	0.46
2:I:388:ASN:HD22	2:I:389:PHE:N	2.14	0.46
2:I:485:ASP:CB	2:I:488:PRO:CD	2.89	0.46
2:I:979:LEU:CD2	2:I:999:ALA:HB3	2.46	0.46
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.49	0.46
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.96	0.46
2:J:1141:LYS:CE	2:J:1143:SER:HB2	2.46	0.46
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.81	0.46
2:J:1353:GLY:CA	2:J:1397:THR:HG21	2.42	0.46
2:J:1499:LYS:CG	2:J:1500:ASN:H	2.29	0.46
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.50	0.46
2:K:193:TYR:O	2:K:197:VAL:HG23	2.16	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.49	0.46
2:K:857:VAL:HG11	2:K:876:TRP:NE1	2.26	0.46
2:K:930:THR:HG22	2:K:933:GLU:H	1.79	0.46
2:K:1708:LEU:O	2:K:1708:LEU:HD22	2.16	0.46
2:L:27:THR:HG22	2:L:32:GLU:CD	2.36	0.46
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.16	0.46
2:L:1977:ARG:HD2	2:L:1978:LYS:HE3	1.97	0.46
1:A:501:ASP:HB2	1:A:505:ASN:HB2	1.96	0.46
1:A:552:ILE:HG21	1:A:566:PHE:CE2	2.50	0.46
1:A:1364:THR:CG2	1:A:1366:GLN:HB2	2.46	0.46
1:A:1467:LEU:O	1:A:1471:THR:HG23	2.16	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.45	0.46
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.51	0.46
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.48	0.46
1:C:1672:GLY:HA3	1:C:1678:LEU:HD23	1.97	0.46
1:D:444:LEU:HD22	1:D:448:MET:CG	2.46	0.46
1:D:670:LEU:CD1	1:D:680:VAL:HG21	2.46	0.46
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.97	0.46
1:D:871:PHE:N	1:D:871:PHE:CD1	2.82	0.46
1:D:1321:MET:HE2	1:D:1321:MET:HB3	1.76	0.46
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1467:LEU:O	1:D:1471:THR:HG23	2.16	0.46
1:E:530:GLY:O	1:E:611:THR:HG21	2.14	0.46
1:E:1425:LEU:CD2	1:E:1429:ARG:HH21	2.18	0.46
1:E:1581:LEU:HD13	1:E:1638:HIS:HA	1.97	0.46
1:F:1209:PHE:CZ	1:F:1301:VAL:HG21	2.51	0.46
1:F:1587:PRO:HA	1:F:1611:SER:OG	2.15	0.46
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.46	0.46
2:G:930:THR:HG22	2:G:933:GLU:H	1.77	0.46
2:G:930:THR:HA	2:G:1007:LEU:HA	1.97	0.46
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.46
2:G:1412:MET:HE3	2:G:1412:MET:HB3	1.75	0.46
2:G:1632:VAL:HB	2:G:1685:VAL:HG22	1.98	0.46
2:G:1868:GLN:O	2:G:1873:ARG:NH2	2.49	0.46
2:H:291:VAL:O	2:H:295:ILE:HB	2.16	0.46
2:H:827:GLN:H	2:H:827:GLN:CD	2.19	0.46
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.97	0.46
2:H:1238:GLY:O	2:H:1239:ASP:OD1	2.33	0.46
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.46
2:J:320:LEU:O	2:J:324:GLN:HG3	2.15	0.46
2:J:421:PHE:C	2:J:423:GLN:H	2.19	0.46
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.56	0.46
2:J:1238:GLY:O	2:J:1239:ASP:OD1	2.34	0.46
2:J:2062:THR:HG22	2:J:2064:SER:N	2.31	0.46
2:K:279:PHE:HB2	2:K:467:ILE:HD12	1.98	0.46
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.51	0.46
2:K:1572:ARG:HG2	2:K:1647:ASP:O	2.16	0.46
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.97	0.46
2:K:1932:ASP:OD2	2:K:1934:ARG:HD2	2.15	0.46
2:K:1938:THR:HG22	2:K:1977:ARG:HA	1.98	0.46
2:L:172:ILE:HG22	2:L:514:VAL:O	2.16	0.46
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.45	0.46
2:L:609:THR:HG23	3:L:2101:FMN:O4	2.16	0.46
2:L:960:GLY:O	2:L:963:ILE:HB	2.16	0.46
2:L:1266:HIS:CE1	2:L:1275:ARG:CD	2.94	0.46
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.80	0.46
1:A:636:TYR:HB2	1:A:888:ILE:HD11	1.96	0.46
1:A:1078:ILE:HB	1:A:1338:GLY:HA3	1.97	0.46
1:A:1273:ILE:HG13	1:A:1273:ILE:O	2.16	0.46
1:B:458:GLU:H	1:B:458:GLU:CD	2.19	0.46
1:B:501:ASP:HB2	1:B:505:ASN:HB2	1.96	0.46
1:B:1294:ILE:HD11	1:B:1302:CYS:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:27:ARG:HG3	2:I:2045:ALA:HB2	1.97	0.46
1:C:349:MET:O	1:C:349:MET:HG3	2.16	0.46
1:C:406:ALA:HB2	1:C:439:ARG:HD2	1.98	0.46
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.81	0.46
1:C:683:THR:HG21	1:C:725:LEU:HD11	1.97	0.46
1:D:617:LEU:HD11	1:D:636:TYR:HB2	1.98	0.46
1:D:623:PHE:N	1:D:623:PHE:HD2	2.14	0.46
1:D:636:TYR:HB2	1:D:888:ILE:HD11	1.96	0.46
1:D:1514:ILE:H	1:D:1514:ILE:HG13	1.20	0.46
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.51	0.46
1:F:1149:LEU:HD23	1:F:1149:LEU:HA	1.71	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:G:590:VAL:CG2	2:G:1091:HIS:CD2	2.98	0.46
2:G:657:GLY:HA3	2:G:688:GLU:HG2	1.98	0.46
2:G:1009:ASN:HD22	2:G:1010:ALA:N	2.14	0.46
2:G:1507:VAL:O	2:G:1531:GLU:HA	2.16	0.46
2:H:421:PHE:C	2:H:423:GLN:H	2.19	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.50	0.46
2:H:868:LEU:HD23	2:H:1066:ILE:HD12	1.97	0.46
2:H:1048:TRP:CE2	2:H:1049:GLN:HG2	2.50	0.46
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.68	0.46
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.16	0.46
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.97	0.46
2:H:1933:LEU:O	2:H:1989:LEU:HD11	2.16	0.46
2:H:2053:GLU:H	2:H:2053:GLU:HG3	1.47	0.46
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.50	0.46
2:I:582:LYS:HA	2:I:587:GLN:O	2.15	0.46
2:I:930:THR:HG22	2:I:933:GLU:H	1.79	0.46
2:I:1103:TYR:O	2:I:1106:LYS:HB2	2.14	0.46
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.15	0.46
2:I:1204:VAL:HA	2:I:1218:SER:O	2.16	0.46
2:I:1238:GLY:O	2:I:1239:ASP:OD1	2.33	0.46
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.77	0.46
2:I:1626:GLU:O	2:I:1627:ASN:HB2	2.15	0.46
2:I:1896:THR:HG22	2:I:1898:GLN:N	2.23	0.46
2:I:2005:PHE:HA	2:I:2010:LEU:CD1	2.31	0.46
2:J:271:GLU:HG2	2:J:301:TRP:NE1	2.30	0.46
2:J:1146:LEU:O	2:J:1201:GLY:HA2	2.16	0.46
2:K:276:LEU:HD13	2:K:466:VAL:HG21	1.97	0.46
2:K:741:LEU:HG	2:K:741:LEU:O	2.15	0.46
2:K:1207:THR:O	2:K:1215:THR:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.16	0.46
2:K:1812:LEU:HD21	2:K:1857:VAL:HG11	1.97	0.46
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.30	0.46
2:L:196:PHE:HD2	2:L:266:LYS:CB	2.28	0.46
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.97	0.46
2:L:652:ILE:HG23	2:L:653:PRO:HD2	1.97	0.46
2:L:663:ILE:H	2:L:663:ILE:CD1	2.18	0.46
2:L:746:GLY:HA3	2:L:843:TRP:CZ2	2.51	0.46
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.89	0.46
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.42	0.46
2:L:1932:ASP:OD2	2:L:1934:ARG:HD2	2.15	0.46
1:A:59:ARG:NH1	2:G:1925:MET:HE2	2.31	0.46
1:A:329:THR:O	1:A:332:GLN:HB2	2.16	0.46
1:A:427:ARG:HH21	1:A:518:LYS:HG2	1.81	0.46
1:A:1220:ASN:HB3	1:A:1273:ILE:HG22	1.97	0.46
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.16	0.46
1:A:1703:VAL:HG23	1:A:1713:PHE:CE1	2.51	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.22	0.46
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.51	0.46
1:C:1473:HIS:C	1:C:1473:HIS:ND1	2.69	0.46
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.50	0.46
1:D:875:GLU:O	1:D:878:PHE:HB3	2.15	0.46
1:D:999:LEU:HD11	1:D:1575:ASN:CB	2.45	0.46
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.51	0.46
1:E:35:ILE:HD13	2:K:1691:ALA:HB1	1.97	0.46
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.28	0.46
1:E:557:ARG:HG3	1:E:557:ARG:NH1	1.99	0.46
1:E:921:GLU:HG3	1:E:922:ILE:H	1.81	0.46
1:F:874:GLN:H	1:F:874:GLN:HG2	1.40	0.46
2:G:942:MET:O	2:G:951:ILE:HG13	2.16	0.46
2:G:1141:LYS:CE	2:G:1143:SER:HB2	2.46	0.46
2:H:910:PHE:O	2:H:1063:ARG:HD3	2.16	0.46
2:H:1452:VAL:O	2:H:1454:MET:HG3	2.16	0.46
2:I:26:LEU:HD23	2:I:26:LEU:HA	1.83	0.46
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.51	0.46
2:I:279:PHE:HB2	2:I:467:ILE:HD12	1.97	0.46
2:I:1504:TYR:HD2	2:I:1507:VAL:HG11	1.81	0.46
2:J:730:ILE:O	2:J:733:ALA:HB3	2.16	0.46
2:J:1067:LEU:HB2	3:J:2101:FMN:HM71	1.98	0.46
2:J:1261:PHE:HA	2:J:1284:ARG:NH1	2.31	0.46
2:K:274:GLU:O	2:K:278:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1452:VAL:O	2:K:1454:MET:HG3	2.16	0.46
2:K:1483:LEU:CD2	2:K:1525:VAL:HG11	2.45	0.46
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.16	0.46
2:K:1832:THR:HG21	2:K:2040:ILE:HD11	1.98	0.46
2:L:205:ALA:O	2:L:209:GLN:HG3	2.16	0.46
2:L:1156:ASP:CB	2:L:1159:SER:H	2.20	0.46
2:L:1249:GLY:HA2	2:L:1256:VAL:HG22	1.97	0.46
2:L:1626:GLU:O	2:L:1627:ASN:HB2	2.15	0.46
1:A:875:GLU:O	1:A:878:PHE:HB3	2.15	0.46
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.41	0.46
1:B:648:LEU:HD12	1:B:649:THR:H	1.81	0.46
1:B:843:VAL:O	1:B:843:VAL:HG22	2.15	0.46
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.98	0.46
1:B:959:PRO:HB3	2:H:972:SER:HA	1.97	0.46
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.43	0.46
1:C:538:ARG:HD2	1:C:542:GLN:NE2	2.30	0.46
1:C:1176:PRO:O	1:C:1180:ILE:HG12	2.15	0.46
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.50	0.46
1:D:1592:ALA:O	1:D:1593:ASP:C	2.55	0.46
1:F:17:LEU:HD22	2:L:2041:PRO:HB3	1.98	0.46
1:F:535:TYR:HD2	1:F:540:LYS:CG	2.28	0.46
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.46	0.46
2:G:333:PRO:HB3	2:H:1623:TRP:CH2	2.50	0.46
2:G:934:VAL:O	2:G:938:MET:HG3	2.16	0.46
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.46	0.46
2:G:1257:VAL:HA	2:G:1258:PRO:HD3	1.73	0.46
2:G:1424:LYS:HA	2:G:1425:PRO:HD3	1.85	0.46
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.80	0.46
2:H:182:TYR:CD1	2:H:183:PHE:N	2.84	0.46
2:H:544:ALA:O	2:H:554:TYR:HB3	2.16	0.46
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.98	0.46
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.51	0.46
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.81	0.46
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.44	0.46
2:H:1464:LEU:HD13	2:H:1464:LEU:C	2.35	0.46
2:I:690:LEU:HD22	2:I:691:THR:H	1.80	0.46
2:I:879:LEU:HB3	2:I:884:PHE:CE1	2.51	0.46
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.31	0.46
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.97	0.46
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.16	0.46
2:J:1442:TYR:HA	2:J:1445:THR:CG2	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1692:TYR:O	2:J:1833:PHE:HA	2.16	0.46
2:J:1729:ASN:O	2:J:1757:ILE:HG23	2.16	0.46
2:K:320:LEU:O	2:K:324:GLN:HG3	2.16	0.46
2:K:888:ARG:HD3	2:K:891:ARG:NH1	2.31	0.46
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.16	0.46
2:K:2053:GLU:H	2:K:2053:GLU:HG3	1.49	0.46
2:L:357:THR:HG22	2:L:359:SER:H	1.80	0.46
2:L:616:ASP:OD1	2:L:616:ASP:N	2.48	0.46
1:A:24:MET:HE2	2:G:2043:VAL:HG13	1.98	0.46
1:A:450:TYR:CD1	1:A:1551:ASN:HB2	2.51	0.46
1:A:1149:LEU:CB	1:E:1149:LEU:HB2	2.44	0.46
1:A:1159:LEU:HD12	1:A:1327:ALA:HB3	1.98	0.46
1:A:1321:MET:HE2	1:A:1321:MET:HB3	1.86	0.46
1:A:1386:THR:HG22	1:A:1387:ASP:N	2.31	0.46
1:A:1401:LEU:O	1:A:1401:LEU:HD22	2.16	0.46
1:A:1670:HIS:ND1	2:G:1009:ASN:ND2	2.64	0.46
1:B:21:GLN:HE22	2:H:1841:TYR:HE1	1.64	0.46
1:B:43:ARG:NH1	2:H:1687:GLN:NE2	2.65	0.46
1:B:754:ARG:HH21	1:B:762:LYS:HD3	1.81	0.46
1:B:1288:ASP:O	1:B:1291:TYR:HB3	2.16	0.46
1:C:340:LEU:HD22	1:C:351:LEU:HD11	1.97	0.46
1:C:749:ILE:CD1	1:C:769:ILE:HD12	2.46	0.46
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	2.16	0.46
1:D:605:ARG:CB	1:D:606:PRO:CD	2.87	0.46
1:D:612:ILE:HG23	1:D:613:PRO:HD2	1.98	0.46
1:D:1137:GLN:HA	1:D:1137:GLN:NE2	2.30	0.46
1:D:1287:LEU:HA	1:D:1304:VAL:HG11	1.97	0.46
1:D:1359:VAL:HG12	1:D:1360:GLN:N	2.30	0.46
1:D:1386:THR:HG22	1:D:1387:ASP:N	2.31	0.46
1:E:869:ARG:O	1:E:903:GLY:HA3	2.15	0.46
1:F:28:TRP:CE2	1:F:53:LEU:HD22	2.51	0.46
1:F:349:MET:HG3	1:F:349:MET:O	2.16	0.46
1:F:901:LEU:N	1:F:901:LEU:HD23	2.31	0.46
1:F:1137:GLN:NE2	1:F:1137:GLN:HA	2.31	0.46
2:G:314:LEU:O	2:G:318:ILE:HG13	2.16	0.46
2:G:465:LEU:HB2	2:G:479:ARG:HG2	1.97	0.46
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.45	0.46
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.46	0.46
2:G:731:ALA:CB	2:G:739:ILE:HD12	2.46	0.46
2:G:798:THR:HA	2:G:802:TYR:O	2.16	0.46
2:G:1375:HIS:CE1	2:G:1610:MET:HG2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.46
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.46	0.46
2:H:605:VAL:HB	2:H:628:ILE:CG1	2.41	0.46
2:H:613:VAL:N	2:H:614:PRO:CD	2.79	0.46
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.79	0.46
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.16	0.46
2:I:27:THR:HG22	2:I:32:GLU:CD	2.37	0.46
2:I:205:ALA:O	2:I:209:GLN:HG3	2.16	0.46
2:I:1266:HIS:CE1	2:I:1275:ARG:CD	2.94	0.46
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.46
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.16	0.46
2:I:1316:VAL:HG13	2:I:1348:PHE:HE2	1.81	0.46
2:I:1442:TYR:O	2:I:1445:THR:HG22	2.16	0.46
2:I:1602:LEU:HD22	2:I:1606:ILE:HD11	1.98	0.46
2:I:1616:VAL:O	2:I:1620:VAL:HG23	2.15	0.46
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.16	0.46
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.46	0.46
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.98	0.46
2:J:783:GLY:CA	2:J:815:ARG:HD3	2.46	0.46
2:J:884:PHE:HE2	2:J:1039:GLU:CA	2.29	0.46
2:J:942:MET:O	2:J:951:ILE:HG13	2.16	0.46
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.97	0.46
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.81	0.46
2:K:356:LEU:O	2:K:387:ARG:HA	2.16	0.46
2:K:420:PRO:HB2	2:K:423:GLN:HB2	1.97	0.46
2:K:478:LEU:HD22	2:K:481:LEU:HD11	1.99	0.46
2:K:608:MET:HE1	2:K:817:MET:HG2	1.98	0.46
2:K:676:LEU:HD23	2:K:679:ARG:NH2	2.30	0.46
2:K:856:THR:HG22	2:K:865:ILE:O	2.15	0.46
2:K:995:ARG:O	2:K:998:ALA:HB3	2.15	0.46
2:K:1330:ASN:HD22	2:K:1618:SER:CB	2.29	0.46
2:K:1977:ARG:HD2	2:K:1978:LYS:HE3	1.98	0.46
2:K:2017:PHE:HE2	2:K:2021:LEU:HD11	1.80	0.46
2:L:342:ASN:HB2	2:L:406:ARG:NH2	2.31	0.46
1:A:47:ILE:HD12	2:G:1818:PHE:HD1	1.81	0.45
1:A:1534:GLU:HG2	1:A:1625:PHE:HE1	1.80	0.45
1:C:1525:THR:O	1:C:1526:SER:HB3	2.16	0.45
1:C:1706:GLU:HB2	1:C:1710:GLU:O	2.15	0.45
1:D:458:GLU:CD	1:D:458:GLU:H	2.19	0.45
1:D:1313:GLU:H	1:D:1313:GLU:HG2	1.48	0.45
1:E:23:ALA:HA	2:K:2007:SER:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:689:ARG:CD	1:E:1339:GLU:HG2	2.47	0.45
1:E:1426:GLU:HA	1:E:1429:ARG:HG3	1.99	0.45
1:E:1638:HIS:ND1	1:E:1639:PRO:CD	2.79	0.45
1:F:24:MET:HE2	2:L:2043:VAL:HG13	1.99	0.45
1:F:628:TYR:CD1	1:F:628:TYR:C	2.89	0.45
1:F:1475:GLU:HB3	1:F:1479:ARG:NH2	2.31	0.45
1:F:1591:ASN:C	1:F:1593:ASP:H	2.20	0.45
2:G:605:VAL:HB	2:G:628:ILE:CG1	2.43	0.45
2:G:652:ILE:CG2	2:G:656:ARG:HB2	2.46	0.45
2:G:1451:GLU:HG3	2:G:1541:ILE:HD11	1.96	0.45
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.51	0.45
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.16	0.45
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.51	0.45
2:H:421:PHE:HB3	2:H:844:GLU:OE2	2.16	0.45
2:I:73:VAL:HA	2:I:113:PHE:HE2	1.80	0.45
2:I:276:LEU:HD11	2:I:296:ALA:HA	1.98	0.45
2:I:1662:ARG:HG2	2:I:1686:GLU:HG2	1.98	0.45
2:I:2038:LYS:HA	2:I:2038:LYS:HD3	1.74	0.45
2:J:595:SER:HB2	2:J:600:VAL:O	2.16	0.45
2:J:652:ILE:CG2	2:J:656:ARG:HB2	2.46	0.45
2:J:771:CYS:HB3	2:J:774:ILE:CD1	2.44	0.45
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.51	0.45
2:J:930:THR:HA	2:J:1007:LEU:HA	1.97	0.45
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.97	0.45
2:J:1130:ILE:HD12	2:J:1133:LEU:HD22	1.98	0.45
2:K:350:MET:SD	2:K:392:THR:CG2	3.04	0.45
2:K:506:VAL:HG22	2:K:506:VAL:O	2.16	0.45
2:K:617:PHE:HE2	2:K:628:ILE:HD11	1.81	0.45
2:K:798:THR:HA	2:K:802:TYR:O	2.15	0.45
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.81	0.45
2:K:1851:MET:HB3	2:K:1851:MET:HE2	1.85	0.45
2:L:37:VAL:HG11	2:L:42:HIS:HA	1.98	0.45
2:L:1120:ILE:HD11	2:L:1167:ASN:O	2.15	0.45
2:L:1123:ALA:O	2:L:1126:GLU:OE2	2.33	0.45
1:A:1106:LEU:HD13	1:A:1142:LEU:HD13	1.98	0.45
1:B:427:ARG:CG	1:B:427:ARG:NH1	2.48	0.45
1:B:557:ARG:HH11	1:E:558:LEU:HA	1.80	0.45
1:B:1426:GLU:HA	1:B:1429:ARG:HG3	1.98	0.45
1:C:35:ILE:HD13	2:I:1691:ALA:HB1	1.97	0.45
1:C:501:ASP:HB2	1:C:505:ASN:HB2	1.98	0.45
1:C:743:VAL:HG12	1:C:745:PRO:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:948:HIS:O	1:C:952:TYR:HD2	1.99	0.45
1:C:1001:GLU:O	1:C:1002:ILE:HD12	2.16	0.45
1:C:1287:LEU:HA	1:C:1304:VAL:HG11	1.99	0.45
1:D:743:VAL:O	1:D:745:PRO:HD3	2.16	0.45
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.97	0.45
1:E:655:ALA:O	1:E:680:VAL:HA	2.16	0.45
1:E:1019:LYS:HB2	1:E:1019:LYS:HE3	1.70	0.45
1:E:1107:GLU:HA	1:E:1108:PRO:HD3	1.77	0.45
1:F:340:LEU:HD22	1:F:351:LEU:HD11	1.98	0.45
1:F:427:ARG:O	1:F:430:VAL:HB	2.15	0.45
1:F:653:LYS:HD3	1:F:742:TYR:CE2	2.52	0.45
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.43	0.45
2:G:460:ILE:HA	2:G:461:PRO:HD3	1.80	0.45
2:G:608:MET:HA	3:G:2101:FMN:N5	2.31	0.45
2:G:731:ALA:HA	2:G:739:ILE:HD12	1.97	0.45
2:G:746:GLY:HA3	2:G:843:TRP:CZ2	2.51	0.45
2:G:910:PHE:O	2:G:1063:ARG:HD3	2.16	0.45
2:G:1406:ASN:HB3	2:G:1411:LYS:HG3	1.98	0.45
2:G:1622:THR:O	2:G:1626:GLU:HA	2.16	0.45
2:H:610:PRO:O	2:H:613:VAL:HG12	2.17	0.45
2:H:665:VAL:O	2:H:665:VAL:HG12	2.17	0.45
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.65	0.45
2:H:957:LYS:HE2	2:H:1022:ARG:HH22	1.82	0.45
2:H:980:LEU:HD21	2:H:986:LEU:HD21	1.97	0.45
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.15	0.45
2:I:1250:ARG:CD	2:I:1250:ARG:H	2.28	0.45
2:I:1286:LYS:HZ1	2:I:1367:ASP:HB2	1.81	0.45
2:I:1871:VAL:HG23	2:I:2003:VAL:HG13	1.97	0.45
2:J:80:ILE:HG12	2:J:105:ILE:HG22	1.97	0.45
2:J:1199:THR:HB	2:J:1202:MET:HB3	1.98	0.45
2:J:1266:HIS:CD2	2:J:1266:HIS:N	2.84	0.45
2:J:1588:ASN:OD1	2:J:1589:PRO:HD2	2.16	0.45
2:J:1904:VAL:HG22	2:J:1939:LEU:CD2	2.46	0.45
2:K:350:MET:HG3	2:K:435:ILE:HG21	1.99	0.45
2:K:792:LEU:O	2:K:792:LEU:HD12	2.16	0.45
2:K:1316:VAL:HG13	2:K:1348:PHE:HE2	1.81	0.45
2:K:1426:VAL:HG12	2:K:1427:MET:HG2	1.98	0.45
2:K:2062:THR:HG22	2:K:2064:SER:N	2.31	0.45
2:L:1250:ARG:CD	2:L:1250:ARG:H	2.29	0.45
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.16	0.45
1:A:30:GLU:H	1:A:30:GLU:HG3	1.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.46	0.45
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.49	0.45
1:C:447:PHE:HE1	1:C:451:HIS:HE2	1.63	0.45
1:C:859:VAL:HG22	1:C:918:LEU:HB3	1.99	0.45
1:C:1031:MET:HB3	1:C:1031:MET:HE2	1.76	0.45
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	1.99	0.45
1:C:1330:GLU:CG	1:C:1333:ARG:NH1	2.80	0.45
1:D:689:ARG:NH2	1:D:1591:ASN:HD21	2.13	0.45
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.16	0.45
1:E:617:LEU:HD11	1:E:636:TYR:HB2	1.98	0.45
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.51	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.23	0.45
1:F:921:GLU:HG3	1:F:922:ILE:H	1.81	0.45
1:F:929:ARG:O	1:F:933:ILE:HG13	2.16	0.45
1:F:1560:TYR:CE2	1:F:1589:ASN:HA	2.51	0.45
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.47	0.45
2:G:1504:TYR:HD2	2:G:1507:VAL:HG11	1.81	0.45
2:G:1588:ASN:OD1	2:G:1589:PRO:HD2	2.16	0.45
2:G:1709:TYR:C	2:G:1709:TYR:CD2	2.90	0.45
2:H:274:GLU:O	2:H:278:ARG:HG2	2.16	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:I:37:VAL:HG11	2:I:42:HIS:HA	1.98	0.45
2:I:580:LEU:CD2	2:I:1095:ILE:HG22	2.46	0.45
2:I:746:GLY:HA3	2:I:843:TRP:CZ2	2.52	0.45
2:I:911:GLN:HE21	2:I:1064:THR:HG23	1.81	0.45
2:I:1499:LYS:CG	2:I:1500:ASN:H	2.28	0.45
2:I:1851:MET:HE1	2:I:2024:LYS:HB3	1.98	0.45
2:I:1944:ASN:HA	2:I:1993:PHE:CE1	2.52	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.24	0.45
2:J:276:LEU:HD13	2:J:466:VAL:HG21	1.99	0.45
2:J:321:ARG:HE	2:J:450:HIS:HB3	1.81	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.47	0.45
2:J:930:THR:HG22	2:J:933:GLU:H	1.80	0.45
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.51	0.45
2:J:1348:PHE:O	2:J:1351:VAL:HG12	2.15	0.45
2:K:197:VAL:O	2:K:200:LEU:HD23	2.16	0.45
2:K:652:ILE:HG23	2:K:653:PRO:HD2	1.99	0.45
2:K:725:GLN:HG2	2:K:764:MET:CE	2.47	0.45
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.46	0.45
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.16	0.45
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.98	0.45
2:K:1896:THR:CG2	2:K:1897:GLU:N	2.78	0.45
2:K:1977:ARG:CD	2:K:1978:LYS:HE3	2.46	0.45
2:L:336:LEU:HD23	2:L:336:LEU:C	2.37	0.45
2:L:663:ILE:HD12	2:L:663:ILE:N	2.30	0.45
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.98	0.45
1:A:449:GLN:O	1:A:452:ILE:HG22	2.17	0.45
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.51	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:CD1	2.47	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.30	0.45
1:B:28:TRP:CE2	1:B:53:LEU:HD22	2.52	0.45
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.97	0.45
1:B:653:LYS:HD3	1:B:742:TYR:CE2	2.51	0.45
1:B:1042:LEU:HD23	1:B:1042:LEU:HA	1.76	0.45
1:B:1317:GLU:CG	1:D:1250:LEU:HB2	2.41	0.45
1:C:36:LEU:O	1:C:76:ARG:NH2	2.49	0.45
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.52	0.45
1:C:1037:ASN:HD21	2:I:1011:GLN:HG2	1.80	0.45
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.17	0.45
1:D:427:ARG:O	1:D:430:VAL:HB	2.17	0.45
1:D:490:VAL:HG12	1:D:490:VAL:O	2.17	0.45
1:D:1086:PHE:CZ	1:D:1310:PHE:HD2	2.34	0.45
1:D:1586:VAL:CG2	1:D:1617:ILE:HD11	2.46	0.45
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.77	0.45
1:E:631:LYS:O	1:E:635:ILE:HG13	2.15	0.45
1:E:653:LYS:HD3	1:E:742:TYR:CE2	2.51	0.45
1:E:1037:ASN:CB	1:E:1674:ILE:HG23	2.47	0.45
1:F:470:GLY:O	1:F:474:ILE:HG13	2.16	0.45
1:F:994:VAL:HG21	1:F:1291:TYR:CD1	2.52	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.51	0.45
2:G:1175:MET:HA	2:G:1274:ILE:HD11	1.99	0.45
2:G:1558:GLU:O	2:G:1560:PRO:HD3	2.17	0.45
2:G:1588:ASN:HD21	2:G:1590:ILE:HD12	1.81	0.45
2:G:1767:GLU:CB	2:G:2016:PRO:HG3	2.38	0.45
2:H:159:PHE:CZ	2:H:275:LEU:HD21	2.52	0.45
2:H:350:MET:HE2	2:H:435:ILE:HD12	1.98	0.45
2:H:1093:ASP:O	2:H:1097:PHE:HB2	2.16	0.45
2:H:1588:ASN:OD1	2:H:1589:PRO:HD2	2.15	0.45
2:I:190:TYR:HE1	2:I:201:ILE:HG21	1.80	0.45
2:I:718:PRO:HG2	2:I:741:LEU:HD11	1.98	0.45
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1348:PHE:CE1	2:I:1351:VAL:HG11	2.51	0.45
2:I:1348:PHE:O	2:I:1351:VAL:HG12	2.16	0.45
2:I:1593:SER:HG	2:I:1596:PHE:HB2	1.80	0.45
2:I:1887:ASN:ND2	2:I:1890:ARG:HG3	2.32	0.45
2:J:37:VAL:HG11	2:J:42:HIS:HA	1.97	0.45
2:J:487:ILE:HB	2:J:488:PRO:CD	2.40	0.45
2:J:555:LYS:HB3	2:J:556:PRO:HD3	1.98	0.45
2:J:610:PRO:O	2:J:613:VAL:HG12	2.16	0.45
2:J:612:THR:HG21	2:J:629:GLU:O	2.16	0.45
2:J:741:LEU:O	2:J:741:LEU:HG	2.15	0.45
2:J:1290:TYR:CG	2:J:1299:VAL:CG1	2.91	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:CE2	2.51	0.45
2:J:1426:VAL:HG12	2:J:1427:MET:HG2	1.98	0.45
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.52	0.45
2:J:1947:LYS:HG3	2:J:1948:MET:HE2	1.97	0.45
2:K:291:VAL:O	2:K:295:ILE:HB	2.15	0.45
2:K:388:ASN:HD22	2:K:389:PHE:N	2.14	0.45
2:K:859:SER:CB	2:K:863:GLU:HG3	2.46	0.45
2:K:1238:GLY:O	2:K:1239:ASP:OD1	2.33	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.24	0.45
2:L:321:ARG:HE	2:L:450:HIS:HB3	1.81	0.45
2:L:914:TRP:CD1	2:L:916:GLY:CA	2.97	0.45
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.52	0.45
1:A:1251:GLN:HG3	1:E:1321:MET:HE1	1.98	0.45
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.17	0.45
1:B:1078:ILE:HB	1:B:1338:GLY:HA3	1.97	0.45
1:B:1185:PRO:O	1:B:1188:LEU:HB2	2.17	0.45
1:B:1699:PRO:HG3	1:D:1405:ARG:C	2.37	0.45
1:C:562:SER:CB	1:D:551:LEU:HD21	2.46	0.45
1:C:1343:PRO:HA	1:C:1526:SER:HA	1.99	0.45
1:D:30:GLU:H	1:D:30:GLU:HG3	1.52	0.45
1:D:422:LEU:HB3	1:D:429:ILE:CD1	2.46	0.45
1:D:613:PRO:HD3	1:D:628:TYR:CE2	2.52	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.16	0.45
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.45
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.46	0.45
1:E:1020:PHE:CE2	1:E:1028:MET:HG3	2.51	0.45
1:E:1294:ILE:HD11	1:E:1302:CYS:HB3	1.99	0.45
1:E:1307:PHE:CA	1:E:1568:ALA:HB2	2.47	0.45
1:F:1011:ARG:HD2	1:F:1011:ARG:C	2.37	0.45
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1535:SER:HB3	1:F:1602:PHE:CD1	2.52	0.45
2:G:818:THR:HG22	2:G:829:LYS:HB3	1.98	0.45
2:G:1093:ASP:O	2:G:1097:PHE:HB2	2.16	0.45
2:G:1281:ARG:HH22	2:G:1599:TYR:HE2	1.63	0.45
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.31	0.45
2:G:1722:ALA:CB	2:G:1812:LEU:HD11	2.46	0.45
2:G:1972:ILE:H	2:G:1972:ILE:HG13	1.37	0.45
2:H:342:ASN:HB2	2:H:406:ARG:NH2	2.32	0.45
2:H:468:PRO:HD3	2:H:479:ARG:HH21	1.77	0.45
2:H:759:GLN:N	2:H:760:PRO:CD	2.80	0.45
2:H:1141:LYS:CE	2:H:1143:SER:HB2	2.47	0.45
2:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.16	0.45
2:H:1650:THR:O	2:H:1669:ALA:HA	2.16	0.45
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.51	0.45
2:I:663:ILE:HD12	2:I:663:ILE:N	2.30	0.45
2:I:884:PHE:CE2	2:I:1039:GLU:HA	2.51	0.45
2:I:1028:VAL:HG22	2:I:1030:PHE:CE2	2.52	0.45
2:I:1175:MET:CE	2:I:1192:LEU:HD11	2.46	0.45
2:I:1316:VAL:HG13	2:I:1348:PHE:CE2	2.51	0.45
2:I:1316:VAL:HB	2:I:1391:VAL:O	2.17	0.45
2:I:1412:MET:HE3	2:I:1412:MET:HB3	1.84	0.45
2:I:1462:GLN:O	2:I:1466:VAL:HG23	2.17	0.45
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.51	0.45
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.46	0.45
2:J:649:GLU:HG3	2:J:650:LYS:HG3	1.97	0.45
2:J:979:LEU:CD2	2:J:999:ALA:HB3	2.45	0.45
2:J:980:LEU:HB2	2:J:996:ILE:CD1	2.46	0.45
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.30	0.45
2:J:2017:PHE:HE2	2:J:2021:LEU:HD11	1.81	0.45
2:J:2058:VAL:CG1	2:J:2067:ILE:HD12	2.47	0.45
2:K:220:GLN:NE2	2:K:324:GLN:HG2	2.31	0.45
2:K:289:ILE:HD12	2:K:472:THR:OG1	2.16	0.45
2:K:321:ARG:HE	2:K:450:HIS:HB3	1.82	0.45
2:K:353:ILE:O	2:K:353:ILE:HG22	2.16	0.45
2:K:805:MET:HB3	2:K:805:MET:HE2	1.77	0.45
2:K:1335:PHE:CE1	2:K:1629:ILE:HD11	2.51	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.99	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.38	0.45
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.36	0.45
2:K:1896:THR:HG22	2:K:1898:GLN:N	2.20	0.45
2:L:80:ILE:HG12	2:L:105:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.98	0.45
2:L:420:PRO:HB2	2:L:423:GLN:HB2	1.98	0.45
2:L:1464:LEU:HD11	2:L:1468:ARG:HD2	1.98	0.45
2:L:1589:PRO:HB2	2:L:1596:PHE:HB3	1.97	0.45
2:L:2053:GLU:H	2:L:2053:GLU:HG3	1.47	0.45
1:A:28:TRP:CE2	1:A:53:LEU:HD22	2.52	0.45
1:A:628:TYR:HD1	1:A:628:TYR:C	2.20	0.45
1:A:670:LEU:CD1	1:A:680:VAL:HG21	2.47	0.45
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.99	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.98	0.45
1:A:1504:ARG:NH2	1:A:1545:LEU:O	2.50	0.45
1:B:983:GLN:O	1:B:1418:ILE:HD11	2.17	0.45
1:B:999:LEU:HD11	1:B:1575:ASN:CB	2.46	0.45
1:B:1475:GLU:HB3	1:B:1479:ARG:NH2	2.32	0.45
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.98	0.45
1:C:1019:LYS:HB2	1:C:1019:LYS:HE3	1.69	0.45
1:C:1154:LEU:HD23	1:C:1154:LEU:HA	1.79	0.45
1:C:1378:ILE:HD11	1:C:1642:LEU:HB2	1.98	0.45
1:C:1522:PHE:HE2	1:C:1535:SER:HA	1.82	0.45
1:C:1586:VAL:CG2	1:C:1617:ILE:HD11	2.46	0.45
1:D:414:TYR:C	1:D:414:TYR:CD2	2.90	0.45
1:D:501:ASP:HB2	1:D:505:ASN:HB2	1.99	0.45
1:D:1037:ASN:HD21	2:J:1011:GLN:HG2	1.82	0.45
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.17	0.45
1:D:1475:GLU:HB3	1:D:1479:ARG:NH2	2.32	0.45
1:D:1522:PHE:HE2	1:D:1535:SER:HA	1.82	0.45
1:E:1467:LEU:O	1:E:1471:THR:HG23	2.17	0.45
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.16	0.45
1:F:689:ARG:NH2	1:F:1591:ASN:HD21	2.15	0.45
1:F:1673:LEU:HD23	1:F:1673:LEU:HA	1.82	0.45
2:G:192:THR:O	2:G:194:PRO:HD3	2.17	0.45
2:G:289:ILE:HG21	2:G:493:MET:CE	2.47	0.45
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.45
2:G:786:GLU:CD	2:G:786:GLU:H	2.18	0.45
2:G:1146:LEU:O	2:G:1201:GLY:HA2	2.17	0.45
2:G:1156:ASP:CB	2:G:1159:SER:H	2.22	0.45
2:H:102:LEU:O	2:H:106:LEU:HG	2.17	0.45
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.30	0.45
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.99	0.45
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.17	0.45
2:H:1456:LEU:HD23	2:H:1457:HIS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.16	0.45
2:I:170:TYR:CD2	2:I:507:PHE:HB3	2.51	0.45
2:I:276:LEU:HD13	2:I:466:VAL:HG21	1.98	0.45
2:I:401:LEU:HD22	2:I:405:LEU:HG	1.98	0.45
2:I:731:ALA:HA	2:I:739:ILE:HD12	1.98	0.45
2:I:1141:LYS:CE	2:I:1143:SER:HB2	2.47	0.45
2:I:1361:ILE:HD11	2:I:1433:PHE:CD2	2.52	0.45
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.98	0.45
2:I:1804:GLN:O	2:I:1861:PHE:HD1	1.99	0.45
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.30	0.45
2:J:250:PHE:CD2	2:J:287:GLN:HG3	2.52	0.45
2:J:350:MET:HE3	2:J:435:ILE:HD12	1.99	0.45
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.98	0.45
2:J:674:ILE:HB	2:J:675:PRO:HD3	1.99	0.45
2:J:868:LEU:HD13	2:J:1068:GLN:HG3	1.97	0.45
2:J:888:ARG:HD3	2:J:891:ARG:NH1	2.32	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.79	0.45
2:K:740:ILE:HD12	2:K:740:ILE:N	2.31	0.45
2:K:867:LYS:CD	2:K:1065:CYS:SG	3.02	0.45
2:K:1183:GLN:HB2	2:K:1278:MET:CE	2.46	0.45
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.45	0.45
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.80	0.45
2:L:38:PRO:CD	2:L:104:LEU:HD11	2.42	0.45
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.80	0.45
2:L:353:ILE:HG22	2:L:353:ILE:O	2.16	0.45
2:L:460:ILE:O	2:L:485:ASP:HA	2.17	0.45
2:L:737:PHE:O	2:L:773:ASN:HB3	2.17	0.45
2:L:740:ILE:HD12	2:L:740:ILE:N	2.32	0.45
2:L:868:LEU:HD12	2:L:868:LEU:HA	1.71	0.45
2:L:1250:ARG:CZ	2:L:1592:VAL:HG12	2.46	0.45
2:L:1299:VAL:O	2:L:1301:PHE:HD2	2.00	0.45
2:L:1483:LEU:CD2	2:L:1525:VAL:HG11	2.47	0.45
2:L:2017:PHE:HE2	2:L:2021:LEU:HD11	1.81	0.45
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.81	0.45
1:A:47:ILE:HD12	2:G:1694:PHE:HE1	1.81	0.45
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.31	0.45
1:A:653:LYS:HD3	1:A:742:TYR:CE2	2.52	0.45
1:A:1149:LEU:HD12	1:E:1097:LEU:HD13	1.97	0.45
1:B:358:PHE:CD2	1:B:358:PHE:C	2.90	0.45
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.98	0.45
1:B:921:GLU:HG3	1:B:922:ILE:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1212:TYR:CD2	1:B:1371:MET:HG2	2.52	0.45
1:C:631:LYS:O	1:C:635:ILE:HG13	2.17	0.45
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.98	0.45
1:C:1159:LEU:HD12	1:C:1327:ALA:HB3	1.98	0.45
1:C:1682:LYS:HB3	1:F:1389:ILE:HD13	1.98	0.45
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.64	0.45
1:D:1050:TRP:HA	1:D:1050:TRP:CE3	2.52	0.45
1:D:1473:HIS:C	1:D:1473:HIS:ND1	2.70	0.45
1:E:28:TRP:CZ2	1:E:53:LEU:HD22	2.51	0.45
1:E:458:GLU:H	1:E:458:GLU:CD	2.20	0.45
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.45	0.45
1:E:1640:LYS:CG	1:E:1641:TYR:CD1	3.00	0.45
1:F:29:ILE:N	2:L:1920:TYR:O	2.50	0.45
1:F:430:VAL:HG11	1:F:490:VAL:HG11	1.98	0.45
1:F:631:LYS:O	1:F:635:ILE:HG13	2.17	0.45
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.98	0.45
1:F:995:VAL:HG13	1:F:1375:ILE:HG23	1.99	0.45
1:F:1213:VAL:HG13	1:F:1217:GLU:OE1	2.17	0.45
1:F:1544:HIS:O	1:F:1544:HIS:CD2	2.70	0.45
2:G:321:ARG:HE	2:G:450:HIS:HB3	1.80	0.45
2:G:458:MET:C	2:G:459:LYS:HG3	2.37	0.45
2:G:580:LEU:HD12	2:G:1103:TYR:CD2	2.51	0.45
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.98	0.45
2:G:1084:LYS:O	2:G:1088:ASP:HB2	2.16	0.45
2:G:1335:PHE:N	2:G:1335:PHE:CD1	2.84	0.45
2:G:1650:THR:O	2:G:1669:ALA:HA	2.16	0.45
2:H:555:LYS:HB3	2:H:556:PRO:HD3	1.99	0.45
2:H:1120:ILE:CD1	2:H:1169:TYR:CE1	2.98	0.45
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.99	0.45
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.31	0.45
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.32	0.45
2:H:1348:PHE:CE1	2:H:1351:VAL:HG11	2.52	0.45
2:I:465:LEU:HB2	2:I:479:ARG:HG2	1.97	0.45
2:I:792:LEU:O	2:I:792:LEU:HD12	2.16	0.45
2:I:1507:VAL:O	2:I:1531:GLU:HA	2.16	0.45
2:J:102:LEU:O	2:J:106:LEU:HG	2.16	0.45
2:J:208:LEU:HA	2:J:211:LEU:HD12	1.97	0.45
2:J:641:MET:CE	2:J:676:LEU:HD12	2.47	0.45
2:J:699:ILE:H	2:J:699:ILE:CD1	2.30	0.45
2:J:823:HIS:HB3	2:J:1051:GLU:HG3	1.99	0.45
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1175:MET:CE	2:J:1192:LEU:HD11	2.45	0.45
2:K:1334:ALA:HB3	2:K:1629:ILE:HD11	1.98	0.45
2:K:1451:GLU:HG3	2:K:1541:ILE:HD11	1.98	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.71	0.45
2:L:980:LEU:HD21	2:L:986:LEU:HD21	1.99	0.45
2:L:1452:VAL:O	2:L:1454:MET:HG3	2.16	0.45
2:L:1896:THR:CG2	2:L:1897:GLU:N	2.80	0.45
1:A:557:ARG:O	1:F:557:ARG:HD2	2.17	0.45
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.16	0.45
1:A:1213:VAL:HG13	1:A:1217:GLU:OE1	2.17	0.45
1:A:1406:GLU:OE2	1:A:1504:ARG:NH1	2.49	0.45
1:B:31:THR:HG23	2:H:2040:ILE:CG2	2.47	0.45
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.98	0.45
1:C:511:VAL:HG12	1:C:512:PRO:HD2	1.99	0.45
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.16	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
1:C:1264:MET:O	1:F:1389:ILE:HG23	2.16	0.45
1:D:532:ILE:CD1	1:D:866:LEU:O	2.64	0.45
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.98	0.45
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.47	0.45
1:E:918:LEU:O	1:E:921:GLU:HG3	2.17	0.45
1:E:957:THR:HG22	2:K:968:GLU:HG3	1.98	0.45
1:E:1560:TYR:CE2	1:E:1589:ASN:HA	2.52	0.45
1:F:501:ASP:HB2	1:F:505:ASN:HB2	1.98	0.45
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.52	0.45
1:F:869:ARG:O	1:F:903:GLY:HA3	2.17	0.45
1:F:991:ASP:HA	1:F:1364:THR:CG2	2.47	0.45
1:F:1386:THR:HG22	1:F:1387:ASP:H	1.82	0.45
1:F:1444:GLN:O	1:F:1447:VAL:HB	2.17	0.45
1:F:1580:VAL:HG22	1:F:1585:ILE:O	2.16	0.45
2:G:228:LEU:O	2:G:232:HIS:CD2	2.69	0.45
2:G:444:LEU:HD23	2:G:444:LEU:HA	1.77	0.45
2:G:612:THR:CG2	2:G:629:GLU:O	2.65	0.45
2:G:649:GLU:HG3	2:G:650:LYS:HG3	1.99	0.45
2:G:1103:TYR:O	2:G:1106:LYS:HB2	2.17	0.45
2:G:1206:ILE:O	2:G:1209:PRO:HG3	2.17	0.45
2:G:1410:GLY:HA2	2:G:1437:GLY:O	2.17	0.45
2:G:1521:GLU:OE1	2:G:1521:GLU:HA	2.17	0.45
2:H:159:PHE:CD2	2:H:169:ILE:HD12	2.52	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.74	0.45

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:663:ILE:H	2:G:663:ILE:CD1	2.23	0.45
2:G:1028:VAL:HG22	2:G:1030:PHE:CE2	2.51	0.45
2:G:1236:LEU:O	2:G:1237:VAL:HG23	2.16	0.45
2:G:1587:TYR:O	2:G:1588:ASN:C	2.54	0.45
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.47	0.45
2:H:420:PRO:HB2	2:H:423:GLN:HB2	1.99	0.45
2:H:607:GLY:HA2	2:H:612:THR:HG21	1.97	0.45
2:H:612:THR:HG21	2:H:629:GLU:O	2.17	0.45
2:H:1402:ASN:O	2:H:1403:ALA:HB2	2.17	0.45
2:H:1555:VAL:O	2:H:1555:VAL:HG12	2.16	0.45
2:I:664:TYR:CD1	2:I:670:MET:HE1	2.52	0.45
2:I:859:SER:CB	2:I:863:GLU:HG3	2.47	0.45
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.99	0.45
2:I:1179:GLU:CD	2:I:1179:GLU:N	2.62	0.45
2:I:1818:PHE:HE2	2:I:1822:ARG:NH1	2.13	0.45
2:J:663:ILE:HD12	2:J:663:ILE:N	2.31	0.45
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.79	0.45
2:J:1464:LEU:C	2:J:1464:LEU:HD13	2.37	0.45
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.16	0.45
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.44	0.45
2:K:27:THR:HG22	2:K:32:GLU:CD	2.37	0.45
2:K:196:PHE:HD2	2:K:266:LYS:CB	2.29	0.45
2:K:336:LEU:C	2:K:336:LEU:HD23	2.36	0.45
2:K:358:ARG:HH21	2:K:383:VAL:HG21	1.81	0.45
2:K:868:LEU:HD23	2:K:1066:ILE:HD12	1.99	0.45
2:K:910:PHE:HD2	2:K:912:LYS:H	1.64	0.45
2:K:1362:PHE:O	2:K:1363:PRO:O	2.35	0.45
2:L:179:ILE:HG12	2:L:182:TYR:HB3	1.98	0.45
2:L:356:LEU:HD23	2:L:356:LEU:HA	1.65	0.45
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.17	0.45
2:L:712:ARG:O	2:L:738:PRO:HG2	2.16	0.45
2:L:868:LEU:HD13	2:L:1068:GLN:HG3	1.98	0.45
2:L:888:ARG:HD3	2:L:891:ARG:NH1	2.31	0.45
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.52	0.45
2:L:1631:ARG:NH2	2:L:1688:PRO:HA	2.32	0.45
2:L:1766:PHE:CE1	2:L:1869:VAL:HB	2.52	0.45
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.46	0.45
1:A:683:THR:HB	1:A:714:PHE:CB	2.42	0.45
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.99	0.45
1:B:574:ILE:HG12	1:B:574:ILE:H	1.58	0.45
1:B:948:HIS:O	1:B:952:TYR:HD2	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1432:ILE:HD11	1:B:1481:GLN:CB	2.46	0.45
1:B:1457:GLU:H	1:B:1457:GLU:HG3	1.41	0.45
1:B:1565:PRO:CG	1:B:1572:TRP:CZ3	2.95	0.45
1:C:1317:GLU:CG	1:F:1250:LEU:HB2	2.43	0.45
1:C:1359:VAL:CG1	1:C:1360:GLN:N	2.80	0.45
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.47	0.45
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.47	0.45
1:D:973:TRP:CD1	1:D:1648:LYS:HD2	2.52	0.45
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.99	0.45
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.82	0.45
1:F:433:CYS:SG	1:F:473:LEU:HD13	2.57	0.45
1:F:1001:GLU:C	1:F:1002:ILE:HD12	2.38	0.45
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.36	0.45
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.52	0.45
2:G:73:VAL:HG13	2:G:113:PHE:HD2	1.82	0.45
2:G:170:TYR:CD2	2:G:507:PHE:HB3	2.52	0.45
2:G:489:GLU:HG2	2:G:492:ARG:CZ	2.47	0.45
2:G:785:SER:O	2:G:789:TYR:HB2	2.17	0.45
2:G:980:LEU:HB2	2:G:996:ILE:CD1	2.47	0.45
2:G:1067:LEU:HB2	3:G:2101:FMN:HM71	1.98	0.45
2:G:1266:HIS:C	2:G:1268:GLU:H	2.20	0.45
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.85	0.45
2:G:1692:TYR:O	2:G:1833:PHE:HA	2.17	0.45
2:H:657:GLY:HA3	2:H:688:GLU:HG2	1.99	0.45
2:H:781:GLY:HA2	2:H:1071:VAL:CG1	2.38	0.45
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.50	0.45
2:H:1067:LEU:HB2	3:H:2101:FMN:C7M	2.47	0.45
2:H:1372:LYS:O	2:H:1436:ARG:HG2	2.17	0.45
2:H:2062:THR:HG22	2:H:2064:SER:N	2.32	0.45
2:I:320:LEU:O	2:I:324:GLN:HG3	2.17	0.45
2:I:506:VAL:O	2:I:506:VAL:HG22	2.16	0.45
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.47	0.45
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.17	0.45
2:I:691:THR:OG1	2:I:715:SER:HB3	2.17	0.45
2:I:1031:VAL:HG22	2:I:1041:TRP:HB3	1.98	0.45
2:I:1160:PHE:CE1	2:I:1164:ILE:HD11	2.52	0.45
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.17	0.45
2:J:342:ASN:CB	2:J:406:ARG:NH2	2.80	0.45
2:J:617:PHE:HE2	2:J:628:ILE:HD11	1.81	0.45
2:J:1084:LYS:O	2:J:1088:ASP:HB2	2.17	0.45
2:J:1316:VAL:HG13	2:J:1348:PHE:HE2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:580:LEU:HD12	2:K:1103:TYR:CD2	2.52	0.45
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.52	0.45
2:K:1047:LEU:O	2:K:1049:GLN:N	2.50	0.45
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.16	0.45
2:L:857:VAL:HG11	2:L:876:TRP:NE1	2.30	0.45
2:L:942:MET:HG2	2:L:1029:PRO:HG2	1.98	0.45
2:L:1261:PHE:HA	2:L:1284:ARG:NH1	2.32	0.45
2:L:1762:MET:HG2	2:L:1779:LYS:NZ	2.32	0.45
2:L:1904:VAL:HG22	2:L:1939:LEU:CD2	2.46	0.45
1:A:902:ASN:O	1:A:904:GLY:N	2.46	0.44
1:A:1129:ILE:HA	1:A:1139:THR:O	2.18	0.44
1:A:1137:GLN:HA	1:A:1137:GLN:NE2	2.32	0.44
1:A:1343:PRO:HA	1:A:1526:SER:HA	1.99	0.44
1:B:1158:ARG:HD2	1:B:1324:THR:HB	1.99	0.44
1:B:1363:MET:HE2	1:B:1363:MET:HB2	1.77	0.44
1:C:902:ASN:C	1:C:904:GLY:H	2.19	0.44
1:D:929:ARG:O	1:D:933:ILE:HG13	2.17	0.44
1:D:1052:ASP:HB3	1:D:1055:THR:HG23	1.99	0.44
1:D:1444:GLN:O	1:D:1447:VAL:HB	2.18	0.44
1:E:340:LEU:HD22	1:E:351:LEU:HD11	1.98	0.44
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.52	0.44
1:E:623:PHE:N	1:E:623:PHE:HD2	2.15	0.44
1:E:995:VAL:CG1	1:E:1375:ILE:HG23	2.47	0.44
1:E:1042:LEU:HD23	1:E:1042:LEU:HA	1.73	0.44
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.43	0.44
1:E:1330:GLU:CG	1:E:1333:ARG:NH1	2.78	0.44
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.48	0.44
1:F:535:TYR:OH	1:F:630:LYS:HE3	2.17	0.44
1:F:612:ILE:HA	1:F:613:PRO:HD2	1.42	0.44
1:F:673:LEU:HD21	1:F:884:MET:CE	2.47	0.44
1:F:1052:ASP:HB3	1:F:1055:THR:HG23	1.98	0.44
2:G:705:TYR:HA	2:G:709:LEU:CD2	2.47	0.44
2:G:1250:ARG:CD	2:G:1250:ARG:H	2.30	0.44
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.80	0.44
2:G:2017:PHE:HE2	2:G:2021:LEU:HD11	1.82	0.44
2:H:603:VAL:HG22	2:H:810:CYS:SG	2.57	0.44
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.46	0.44
2:H:1285:ILE:O	2:H:1288:PHE:HB3	2.17	0.44
2:H:1594:ARG:NH1	2:H:1594:ARG:CG	2.61	0.44
3:H:2101:FMN:O4'	3:H:2101:FMN:H1'2	2.16	0.44
2:I:286:SER:O	2:I:494:ILE:HD11	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1464:LEU:HD11	2:I:1468:ARG:HD2	1.98	0.44
2:J:468:PRO:HD3	2:J:479:ARG:HH21	1.82	0.44
2:J:821:GLU:H	2:J:821:GLU:HG2	1.43	0.44
2:J:1521:GLU:HA	2:J:1521:GLU:OE1	2.17	0.44
2:J:1650:THR:O	2:J:1669:ALA:HA	2.17	0.44
2:K:44:GLN:HE21	2:K:48:LEU:HD21	1.82	0.44
2:K:215:TRP:HE3	2:K:215:TRP:N	2.15	0.44
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.17	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.80	0.44
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.17	0.44
2:K:1626:GLU:O	2:K:1627:ASN:HB2	2.16	0.44
2:K:1723:ASP:OD1	2:K:1735:ILE:HG13	2.17	0.44
2:L:580:LEU:HD12	2:L:1103:TYR:CD2	2.52	0.44
2:L:703:ASN:O	2:L:707:GLN:HG3	2.17	0.44
2:L:731:ALA:CB	2:L:739:ILE:HD12	2.47	0.44
2:L:805:MET:HB3	2:L:805:MET:HE2	1.80	0.44
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.76	0.44
2:L:1261:PHE:HE2	2:L:1285:ILE:HD11	1.83	0.44
2:L:1808:PRO:O	2:L:1812:LEU:HD23	2.17	0.44
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.64	0.44
1:A:902:ASN:C	1:A:904:GLY:H	2.20	0.44
1:A:1301:VAL:HG23	1:A:1363:MET:CG	2.47	0.44
1:A:1601:GLN:HB2	1:A:1602:PHE:CD2	2.53	0.44
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.64	0.44
1:B:755:GLU:CG	1:E:831:GLU:HG2	2.45	0.44
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.51	0.44
1:B:1313:GLU:H	1:B:1313:GLU:HG2	1.54	0.44
1:C:450:TYR:CD1	1:C:1551:ASN:HB2	2.52	0.44
1:C:874:GLN:H	1:C:874:GLN:HG2	1.35	0.44
1:C:1587:PRO:HA	1:C:1611:SER:OG	2.18	0.44
1:C:1591:ASN:C	1:C:1593:ASP:H	2.20	0.44
1:C:1622:VAL:O	1:C:1622:VAL:HG13	2.17	0.44
1:D:1168:TRP:HZ2	1:D:1192:VAL:HG11	1.83	0.44
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.42	0.44
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.17	0.44
1:E:1129:ILE:HA	1:E:1139:THR:O	2.17	0.44
1:E:1473:HIS:ND1	1:E:1473:HIS:C	2.70	0.44
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.82	0.44
2:G:1489:VAL:HB	2:G:1514:LEU:HB2	2.00	0.44
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.17	0.44
2:G:1871:VAL:CG2	2:G:2004:PRO:HD3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
2:H:113:PHE:N	2:H:113:PHE:CD1	2.85	0.44
2:H:192:THR:O	2:H:194:PRO:HD3	2.16	0.44
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.98	0.44
2:H:276:LEU:HD11	2:H:296:ALA:HA	1.99	0.44
2:H:356:LEU:HB3	2:H:361:VAL:HG23	1.99	0.44
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.46	0.44
2:H:1194:ARG:HD2	2:H:1598:SER:O	2.17	0.44
2:I:22:ARG:CD	2:I:39:THR:HA	2.48	0.44
2:I:215:TRP:HE3	2:I:215:TRP:N	2.14	0.44
2:I:336:LEU:HD23	2:I:336:LEU:C	2.38	0.44
2:I:1067:LEU:HB2	3:I:2101:FMN:HM71	1.98	0.44
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.99	0.44
2:I:1521:GLU:OE1	2:I:1521:GLU:HA	2.18	0.44
2:I:1636:HIS:O	2:I:1681:GLY:HA3	2.17	0.44
2:I:1793:TYR:CD2	2:I:1805:PHE:CZ	3.04	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HE3	2.47	0.44
2:J:342:ASN:HB2	2:J:406:ARG:NH2	2.31	0.44
2:J:613:VAL:H	2:J:614:PRO:HD3	1.80	0.44
2:J:1204:VAL:HA	2:J:1218:SER:O	2.18	0.44
2:J:1346:MET:HB2	2:J:1427:MET:HE1	1.99	0.44
2:J:1507:VAL:O	2:J:1531:GLU:HA	2.16	0.44
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.83	0.44
2:K:759:GLN:N	2:K:760:PRO:CD	2.80	0.44
2:K:1521:GLU:OE1	2:K:1521:GLU:HA	2.17	0.44
2:L:129:ILE:HG21	2:L:132:LYS:HG3	1.99	0.44
2:L:192:THR:O	2:L:194:PRO:HD3	2.16	0.44
2:L:440:HIS:HD2	2:L:497:ASP:O	2.01	0.44
2:L:1245:THR:HG23	2:L:1260:THR:OG1	2.17	0.44
2:L:1250:ARG:NH1	2:L:1592:VAL:CG1	2.80	0.44
1:A:46:GLU:HB3	1:A:80:CYS:HA	2.00	0.44
1:A:929:ARG:O	1:A:933:ILE:HG13	2.16	0.44
1:A:1150:ILE:HG12	1:E:1148:LEU:CD2	2.48	0.44
1:B:14:LEU:HD21	2:H:1844:LEU:HD21	1.99	0.44
1:B:36:LEU:O	1:B:76:ARG:NH2	2.49	0.44
1:B:635:ILE:H	1:B:635:ILE:HG13	1.58	0.44
1:B:655:ALA:O	1:B:680:VAL:HA	2.17	0.44
1:B:973:TRP:CD1	1:B:1648:LYS:HD2	2.52	0.44
1:B:1364:THR:CG2	1:B:1366:GLN:HB2	2.47	0.44
1:C:577:LEU:HD23	1:C:584:ILE:HG21	1.99	0.44
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.18	0.44
1:C:1209:PHE:CZ	1:C:1301:VAL:HG21	2.52	0.44
1:C:1321:MET:HB3	1:C:1321:MET:HE2	1.68	0.44
1:C:1491:ASN:HD22	1:C:1491:ASN:N	2.15	0.44
1:D:755:GLU:C	1:D:757:ASP:N	2.71	0.44
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.67	0.44
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	2.00	0.44
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.43	0.44
1:F:533:SER:OG	1:F:611:THR:HB	2.17	0.44
1:F:1301:VAL:HG23	1:F:1363:MET:HG3	1.98	0.44
1:F:1470:ARG:HD3	1:F:1470:ARG:HA	1.87	0.44
1:F:1686:PRO:HB2	1:F:1713:PHE:CD2	2.51	0.44
2:G:291:VAL:O	2:G:295:ILE:HB	2.18	0.44
2:G:740:ILE:HD12	2:G:740:ILE:N	2.33	0.44
2:G:1207:THR:O	2:G:1215:THR:HA	2.17	0.44
2:G:1812:LEU:HD21	2:G:1857:VAL:HG11	1.99	0.44
2:H:215:TRP:HE3	2:H:216:ASP:N	2.09	0.44
2:H:376:ARG:HH21	2:I:1339:GLY:HA2	1.82	0.44
2:H:888:ARG:HD3	2:H:891:ARG:NH1	2.32	0.44
2:H:1130:ILE:HD12	2:H:1133:LEU:HD22	1.98	0.44
2:H:1977:ARG:HD2	2:H:1978:LYS:HE3	1.99	0.44
2:I:644:ALA:O	2:I:648:ILE:HG13	2.18	0.44
2:I:868:LEU:HD12	2:I:868:LEU:HA	1.78	0.44
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	1.99	0.44
2:I:1977:ARG:HD2	2:I:1978:LYS:HE3	1.99	0.44
2:I:1998:LEU:HB2	2:I:2001:ILE:HD12	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.52	0.44
2:J:870:THR:HG21	2:J:1064:THR:O	2.18	0.44
2:J:938:MET:CE	2:J:959:THR:HA	2.47	0.44
2:J:1115:TYR:CZ	2:J:1174:ALA:HB2	2.52	0.44
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.99	0.44
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.17	0.44
2:K:26:LEU:HD23	2:K:26:LEU:HA	1.85	0.44
2:K:197:VAL:HA	2:K:262:MET:HE1	2.00	0.44
2:K:270:ARG:HG3	2:K:274:GLU:OE1	2.17	0.44
2:K:421:PHE:C	2:K:423:GLN:H	2.20	0.44
2:K:440:HIS:CD2	2:K:499:VAL:CG2	3.01	0.44
2:K:737:PHE:O	2:K:773:ASN:HB3	2.17	0.44
2:K:1146:LEU:O	2:K:1201:GLY:HA2	2.18	0.44
2:K:1248:GLU:HA	2:K:1248:GLU:OE1	2.16	0.44
2:K:1694:PHE:CD2	2:K:1843:ALA:CA	2.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	2.00	0.44
2:L:1404:VAL:CG2	2:L:1413:VAL:HG22	2.42	0.44
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.99	0.44
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.44
1:A:617:LEU:HD11	1:A:636:TYR:HB2	1.99	0.44
1:A:728:TYR:CE2	1:A:736:LEU:HD13	2.52	0.44
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.52	0.44
1:B:831:GLU:HG2	1:E:755:GLU:CG	2.44	0.44
1:B:1052:ASP:HB3	1:B:1055:THR:HG23	2.00	0.44
1:B:1338:GLY:H	1:B:1340:MET:HG3	1.83	0.44
1:B:1544:HIS:CG	1:B:1544:HIS:O	2.70	0.44
1:C:24:MET:HE2	2:I:2043:VAL:HG13	1.99	0.44
1:C:995:VAL:CG1	1:C:1375:ILE:HG23	2.48	0.44
1:C:1038:HIS:CE1	1:C:1042:LEU:HG	2.53	0.44
1:D:655:ALA:HB2	1:D:742:TYR:HB2	2.00	0.44
1:E:490:VAL:HG12	1:E:490:VAL:O	2.17	0.44
1:E:1158:ARG:HD2	1:E:1324:THR:HB	1.99	0.44
1:E:1472:GLU:O	1:E:1475:GLU:HB2	2.18	0.44
1:E:1574:LEU:O	1:E:1578:LEU:HG	2.18	0.44
1:F:1457:GLU:H	1:F:1457:GLU:HG3	1.41	0.44
2:G:196:PHE:HD2	2:G:266:LYS:CB	2.30	0.44
2:G:274:GLU:O	2:G:278:ARG:HG2	2.18	0.44
2:G:476:GLN:HG2	2:G:476:GLN:H	1.64	0.44
2:G:1130:ILE:HD12	2:G:1133:LEU:HD22	1.99	0.44
2:G:1938:THR:HG22	2:G:1977:ARG:HA	2.00	0.44
2:H:196:PHE:O	2:H:262:MET:HE1	2.17	0.44
2:H:834:ASP:O	2:H:836:PRO:HD3	2.18	0.44
2:H:911:GLN:HE21	2:H:1064:THR:HG23	1.83	0.44
2:H:1412:MET:HE3	2:H:1412:MET:HB3	1.80	0.44
2:H:1521:GLU:OE1	2:H:1521:GLU:HA	2.18	0.44
2:H:1572:ARG:HG2	2:H:1647:ASP:O	2.17	0.44
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.46	0.44
2:H:1932:ASP:OD2	2:H:1934:ARG:HD2	2.17	0.44
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.80	0.44
2:I:161:ALA:HA	2:I:164:GLU:HB2	2.00	0.44
2:I:357:THR:HG22	2:I:359:SER:H	1.83	0.44
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.17	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.98	0.44
2:I:1265:TYR:CE2	2:I:1267:PRO:HG3	2.52	0.44
2:I:1266:HIS:CD2	2:I:1266:HIS:N	2.86	0.44
2:I:1301:PHE:HD1	2:I:1364:ARG:HG2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.16	0.44
2:J:930:THR:HG23	2:J:933:GLU:H	1.80	0.44
2:J:957:LYS:HE2	2:J:1022:ARG:HH22	1.81	0.44
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.17	0.44
2:J:1248:GLU:HB2	2:J:1596:PHE:CE1	2.52	0.44
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	2.00	0.44
2:K:113:PHE:CD1	2:K:113:PHE:N	2.84	0.44
2:K:381:SER:HB2	2:K:440:HIS:HB2	1.99	0.44
2:K:1261:PHE:HA	2:K:1284:ARG:NH1	2.33	0.44
2:K:1346:MET:HG2	2:K:1617:ARG:NH2	2.33	0.44
2:K:1496:VAL:HG23	2:K:1507:VAL:HG12	2.00	0.44
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.63	0.44
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.51	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.52	0.44
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.52	0.44
2:L:580:LEU:CD2	2:L:1095:ILE:HG22	2.47	0.44
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.99	0.44
2:L:1382:MET:HB3	2:L:1633:ARG:NH1	2.32	0.44
1:A:414:TYR:CE2	1:A:418:ILE:CD1	3.00	0.44
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.98	0.44
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.18	0.44
1:A:1001:GLU:O	1:A:1002:ILE:HD12	2.18	0.44
1:A:1086:PHE:CZ	1:A:1310:PHE:HD2	2.35	0.44
1:A:1447:VAL:HG21	1:A:1467:LEU:HD11	2.00	0.44
1:A:1544:HIS:O	1:A:1544:HIS:CD2	2.71	0.44
1:B:577:LEU:CD2	1:B:584:ILE:HG21	2.47	0.44
1:B:1273:ILE:O	1:B:1273:ILE:HG13	2.17	0.44
1:B:1388:LYS:HD3	1:D:1692:GLN:NE2	2.33	0.44
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	2.00	0.44
1:C:1149:LEU:HD12	1:F:1097:LEU:HD13	1.98	0.44
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.47	0.44
1:D:36:LEU:O	1:D:76:ARG:NH2	2.49	0.44
1:D:539:THR:O	1:D:542:GLN:HG2	2.18	0.44
1:D:1294:ILE:HD11	1:D:1302:CYS:HB3	1.99	0.44
1:E:628:TYR:C	1:E:628:TYR:CD1	2.90	0.44
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.81	0.44
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.77	0.44
1:F:967:PHE:CE2	1:F:1374:PRO:HG3	2.52	0.44
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.98	0.44
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.43	0.44
2:G:357:THR:HG22	2:G:359:SER:H	1.83	0.44

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:215:TRP:HE3	2:L:216:ASP:N	2.09	0.44
2:L:452:LEU:HD21	2:L:488:PRO:HA	1.98	0.44
2:L:788:THR:CG2	2:L:1094:HIS:CE1	3.01	0.44
2:L:1412:MET:HE3	2:L:1412:MET:HB3	1.83	0.44
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.17	0.44
2:L:1915:LEU:HD13	2:L:1936:LEU:HD22	1.99	0.44
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.43	0.44
1:A:1185:PRO:O	1:A:1188:LEU:HB2	2.18	0.44
1:B:759:ILE:O	1:E:776:ARG:NH1	2.48	0.44
1:B:871:PHE:N	1:B:871:PHE:CD1	2.86	0.44
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.74	0.44
1:B:1287:LEU:HA	1:B:1304:VAL:HG11	1.99	0.44
1:B:1581:LEU:HD13	1:B:1638:HIS:HA	1.99	0.44
1:C:21:GLN:O	2:I:2006:HIS:HD2	2.00	0.44
1:C:26:VAL:HG21	2:I:2006:HIS:CE1	2.52	0.44
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.99	0.44
1:C:1544:HIS:O	1:C:1544:HIS:CG	2.69	0.44
1:D:421:ARG:HH22	1:D:1613:LYS:HG3	1.81	0.44
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.52	0.44
1:D:792:THR:HB	2:I:1748:HIS:O	2.17	0.44
1:D:1001:GLU:O	1:D:1002:ILE:HD12	2.18	0.44
1:E:689:ARG:NH1	1:E:1339:GLU:OE2	2.50	0.44
1:F:859:VAL:O	1:F:863:VAL:HG23	2.18	0.44
1:F:1647:ASP:C	1:F:1649:ALA:N	2.68	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.32	0.44
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.99	0.44
2:G:1199:THR:HB	2:G:1202:MET:HB3	1.99	0.44
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	2.00	0.44
2:H:26:LEU:HD23	2:H:26:LEU:HA	1.86	0.44
2:H:196:PHE:HD2	2:H:266:LYS:CB	2.30	0.44
2:H:595:SER:CB	2:H:602:PRO:HG3	2.32	0.44
2:H:1123:ALA:HB3	2:H:1126:GLU:HG3	1.99	0.44
2:H:1851:MET:HE1	2:H:2024:LYS:HB3	1.98	0.44
2:H:2017:PHE:HE2	2:H:2021:LEU:HD11	1.83	0.44
2:I:36:LEU:HD23	2:I:36:LEU:HA	1.76	0.44
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.41	0.44
2:I:740:ILE:HD12	2:I:740:ILE:N	2.32	0.44
2:I:914:TRP:O	2:I:916:GLY:N	2.45	0.44
2:I:957:LYS:HE2	2:I:1022:ARG:HH22	1.82	0.44
2:I:1106:LYS:HB2	2:I:1109:ASN:ND2	2.33	0.44
2:I:1305:LEU:HD23	2:I:1366:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1372:LYS:O	2:I:1436:ARG:HG2	2.18	0.44
2:I:1953:ILE:O	2:I:1957:MET:HG2	2.17	0.44
2:J:170:TYR:CD2	2:J:507:PHE:HB3	2.53	0.44
2:J:182:TYR:CD1	2:J:183:PHE:N	2.85	0.44
2:J:291:VAL:O	2:J:295:ILE:HB	2.16	0.44
2:J:590:VAL:CG2	2:J:1091:HIS:CD2	2.99	0.44
2:J:615:TRP:CE3	2:J:647:LYS:HB3	2.53	0.44
2:K:253:ILE:HB	2:K:287:GLN:NE2	2.33	0.44
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.85	0.44
2:K:444:LEU:HD23	2:K:444:LEU:HA	1.73	0.44
2:K:762:LEU:HD11	2:K:800:PHE:CB	2.48	0.44
2:K:870:THR:HG21	2:K:1064:THR:O	2.18	0.44
2:K:872:GLY:HA2	2:K:909:ASP:O	2.18	0.44
2:K:1558:GLU:O	2:K:1560:PRO:HD3	2.18	0.44
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.48	0.44
2:K:1901:GLN:HB3	2:K:1905:GLU:OE2	2.18	0.44
3:K:2101:FMN:H9	3:K:2101:FMN:H1'2	1.80	0.44
2:L:120:HIS:CD2	2:L:137:VAL:HG11	2.53	0.44
2:L:128:GLY:HA2	2:L:133:LYS:NZ	2.33	0.44
2:L:196:PHE:O	2:L:262:MET:HE1	2.17	0.44
2:L:401:LEU:HD22	2:L:405:LEU:HG	1.99	0.44
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.82	0.44
2:L:1374:VAL:CG2	2:L:1436:ARG:NE	2.80	0.44
2:L:1977:ARG:CD	2:L:1978:LYS:HE3	2.47	0.44
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.81	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44
1:A:21:GLN:HE21	1:A:21:GLN:HB3	1.57	0.44
1:A:1143:ARG:HH21	1:B:356:LYS:NZ	2.16	0.44
1:A:1363:MET:HE2	1:A:1363:MET:HB2	1.65	0.44
1:B:454:HIS:CD2	1:B:454:HIS:N	2.86	0.44
1:B:991:ASP:HA	1:B:1364:THR:CG2	2.48	0.44
1:C:901:LEU:N	1:C:901:LEU:HD23	2.33	0.44
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.53	0.44
1:D:414:TYR:O	1:D:418:ILE:HG13	2.17	0.44
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.53	0.44
1:D:1591:ASN:C	1:D:1593:ASP:H	2.20	0.44
1:D:1601:GLN:HB2	1:D:1602:PHE:CD2	2.53	0.44
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.33	0.44
1:F:72:THR:O	1:F:73:SER:HB3	2.18	0.44
1:F:655:ALA:O	1:F:680:VAL:HA	2.18	0.44
1:F:1078:ILE:HB	1:F:1338:GLY:HA3	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1158:ARG:HD2	1:F:1324:THR:HB	1.99	0.44
1:F:1185:PRO:O	1:F:1188:LEU:HB2	2.18	0.44
1:F:1467:LEU:O	1:F:1471:THR:HG23	2.18	0.44
2:G:27:THR:HG22	2:G:32:GLU:HG2	2.00	0.44
2:G:943:TYR:OH	2:G:948:LYS:HA	2.18	0.44
2:G:1335:PHE:N	2:G:1335:PHE:HD1	2.16	0.44
2:G:1338:ARG:NH1	2:I:326:TYR:CE2	2.86	0.44
2:G:1353:GLY:CA	2:G:1397:THR:HG21	2.44	0.44
2:H:289:ILE:HG21	2:H:493:MET:CE	2.48	0.44
2:H:894:GLU:O	2:H:897:LYS:HG2	2.17	0.44
2:H:1175:MET:CE	2:H:1192:LEU:HD11	2.48	0.44
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	2.00	0.44
2:I:505:THR:O	2:I:505:THR:CG2	2.66	0.44
2:I:580:LEU:HD12	2:I:1103:TYR:CD2	2.53	0.44
2:I:657:GLY:HA3	2:I:688:GLU:HG2	2.00	0.44
2:I:796:TRP:CG	2:I:797:SER:N	2.85	0.44
2:I:1207:THR:O	2:I:1215:THR:HA	2.18	0.44
2:I:1404:VAL:CG2	2:I:1413:VAL:HG22	2.44	0.44
2:J:286:SER:OG	2:J:440:HIS:NE2	2.50	0.44
2:J:657:GLY:HA3	2:J:688:GLU:HG2	2.00	0.44
2:J:1265:TYR:CE2	2:J:1267:PRO:HG3	2.51	0.44
2:J:1325:VAL:HG22	2:J:1335:PHE:HD2	1.82	0.44
2:J:1588:ASN:HA	2:J:1589:PRO:HD3	1.87	0.44
2:K:376:ARG:NH2	2:L:1339:GLY:HA2	2.33	0.44
2:K:452:LEU:HD21	2:K:488:PRO:HA	1.99	0.44
2:K:752:HIS:CD2	2:K:866:HIS:ND1	2.86	0.44
2:K:858:LEU:HD23	2:K:864:PRO:HA	2.00	0.44
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.53	0.44
2:K:1199:THR:HG22	2:K:1200:ARG:N	2.33	0.44
2:L:258:LEU:CD1	2:L:291:VAL:HG13	2.47	0.44
2:L:872:GLY:HA2	2:L:909:ASP:O	2.18	0.44
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.18	0.44
2:L:1175:MET:CE	2:L:1192:LEU:HD11	2.46	0.44
2:L:1362:PHE:O	2:L:1363:PRO:O	2.36	0.44
2:L:1587:TYR:O	2:L:1588:ASN:C	2.55	0.44
2:L:1851:MET:HB3	2:L:1851:MET:HE2	1.91	0.44
2:L:2062:THR:HG22	2:L:2064:SER:N	2.33	0.44
1:A:511:VAL:HG12	1:A:512:PRO:HD2	2.00	0.43
1:A:739:ASP:OD2	1:A:790:TYR:CG	2.71	0.43
1:A:1695:VAL:HG11	1:A:1713:PHE:CE2	2.53	0.43
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ASP:HB3	1:B:353:ALA:HB2	2.00	0.43
1:B:874:GLN:H	1:B:874:GLN:HG2	1.39	0.43
1:B:1389:ILE:HD13	1:D:1682:LYS:HB3	1.98	0.43
1:B:1592:ALA:O	1:B:1593:ASP:C	2.55	0.43
1:C:490:VAL:HG12	1:C:490:VAL:O	2.18	0.43
1:D:943:VAL:HG12	1:D:944:ASN:OD1	2.18	0.43
1:D:1148:LEU:HD23	1:D:1148:LEU:HA	1.78	0.43
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.17	0.43
1:E:1301:VAL:HG22	1:E:1302:CYS:H	1.83	0.43
1:F:414:TYR:C	1:F:414:TYR:CD2	2.90	0.43
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.99	0.43
1:F:484:PRO:HA	1:F:485:PRO:HD3	1.62	0.43
1:F:743:VAL:O	1:F:745:PRO:HD3	2.18	0.43
1:F:829:TYR:OH	1:F:896:PRO:HD2	2.18	0.43
1:F:1307:PHE:CA	1:F:1568:ALA:HB2	2.48	0.43
1:F:1359:VAL:CG1	1:F:1360:GLN:N	2.81	0.43
2:G:129:ILE:HG12	2:G:131:ALA:HB3	2.00	0.43
2:G:138:ARG:HB3	2:G:192:THR:HG23	1.99	0.43
2:G:208:LEU:HB3	2:G:225:LEU:HD13	1.99	0.43
2:G:289:ILE:HD12	2:G:472:THR:OG1	2.17	0.43
2:G:381:SER:HB2	2:G:440:HIS:HB2	2.00	0.43
2:G:505:THR:O	2:G:507:PHE:N	2.46	0.43
2:G:868:LEU:HD13	2:G:1068:GLN:HG3	1.99	0.43
2:G:1183:GLN:HB2	2:G:1278:MET:CE	2.47	0.43
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.47	0.43
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.18	0.43
2:H:476:GLN:HG2	2:H:476:GLN:H	1.63	0.43
2:H:580:LEU:HD12	2:H:1103:TYR:CD2	2.52	0.43
2:H:641:MET:CE	2:H:676:LEU:HD12	2.48	0.43
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.53	0.43
2:H:990:TYR:N	2:H:991:PRO:CD	2.81	0.43
2:H:1081:GLU:H	2:H:1081:GLU:HG3	1.65	0.43
2:H:1266:HIS:CD2	2:H:1266:HIS:N	2.86	0.43
2:H:1496:VAL:HG23	2:H:1507:VAL:HG12	2.00	0.43
2:H:1587:TYR:O	2:H:1588:ASN:C	2.56	0.43
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.53	0.43
2:I:120:HIS:CD2	2:I:137:VAL:CG1	3.01	0.43
2:I:172:ILE:HG22	2:I:514:VAL:O	2.18	0.43
2:I:251:PRO:HG3	2:I:316:PHE:N	2.32	0.43
2:I:730:ILE:O	2:I:733:ALA:HB3	2.17	0.43
2:I:988:GLU:HA	2:I:989:PRO:HD3	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1709:TYR:CE2	2:I:1716:LYS:HG2	2.53	0.43
2:I:1729:ASN:HA	2:I:1757:ILE:HD13	2.00	0.43
2:J:113:PHE:N	2:J:113:PHE:CD1	2.86	0.43
2:J:306:THR:O	2:J:310:ARG:HG3	2.17	0.43
2:J:890:LYS:HE3	2:J:890:LYS:HB2	1.81	0.43
2:J:990:TYR:N	2:J:991:PRO:CD	2.81	0.43
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.18	0.43
2:J:1887:ASN:ND2	2:J:1890:ARG:HG3	2.32	0.43
2:K:196:PHE:CD2	2:K:266:LYS:CB	3.01	0.43
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.43
2:K:617:PHE:CZ	2:K:1083:ILE:HD12	2.53	0.43
2:K:1084:LYS:O	2:K:1088:ASP:HB2	2.18	0.43
2:K:1881:TYR:CG	2:K:2004:PRO:HG3	2.52	0.43
2:K:1915:LEU:HD13	2:K:1936:LEU:HD22	2.00	0.43
2:L:161:ALA:HB1	2:L:166:ASN:HD22	1.83	0.43
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.47	0.43
2:L:769:ARG:HD3	2:L:769:ARG:HA	1.79	0.43
2:L:1248:GLU:OE1	2:L:1248:GLU:HA	2.16	0.43
1:A:954:ARG:HA	2:G:981:GLN:OE1	2.18	0.43
1:A:1083:PRO:HB3	1:A:1089:TYR:O	2.18	0.43
1:A:1425:LEU:CD2	1:A:1429:ARG:HH21	2.16	0.43
1:B:409:ASP:CG	1:B:701:ARG:NH1	2.72	0.43
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.47	0.43
1:B:759:ILE:HD12	1:B:759:ILE:N	2.33	0.43
1:B:869:ARG:O	1:B:903:GLY:HA3	2.18	0.43
1:B:1137:GLN:HA	1:B:1137:GLN:NE2	2.32	0.43
1:B:1250:LEU:HB2	1:D:1317:GLU:CG	2.44	0.43
1:C:21:GLN:HE21	1:C:21:GLN:HB3	1.60	0.43
1:C:409:ASP:CG	1:C:701:ARG:NH1	2.71	0.43
1:C:470:GLY:O	1:C:474:ILE:HG13	2.18	0.43
1:C:628:TYR:CD1	1:C:628:TYR:C	2.91	0.43
1:C:743:VAL:O	1:C:745:PRO:HD3	2.17	0.43
1:C:1687:TYR:OH	1:F:1388:LYS:HB3	2.18	0.43
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.36	0.43
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.83	0.43
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.00	0.43
1:D:1386:THR:HG22	1:D:1387:ASP:H	1.84	0.43
1:E:88:ILE:HG21	2:K:1821:MET:HE1	2.00	0.43
1:E:837:LEU:HD12	1:E:837:LEU:HA	1.85	0.43
1:E:983:GLN:O	1:E:1418:ILE:HD11	2.19	0.43
1:F:565:GLN:O	1:F:565:GLN:CG	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1106:LEU:HD13	1:F:1142:LEU:HD13	2.00	0.43
2:G:37:VAL:HG11	2:G:42:HIS:HA	2.00	0.43
2:G:215:TRP:HE3	2:G:215:TRP:N	2.16	0.43
2:G:1259:LEU:HD11	2:G:1285:ILE:HG12	2.00	0.43
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.83	0.43
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.99	0.43
2:H:27:THR:HG22	2:H:32:GLU:HG2	2.00	0.43
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.17	0.43
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.83	0.43
2:H:300:THR:O	2:H:304:PHE:HB2	2.18	0.43
2:H:462:ALA:HB3	2:H:481:LEU:O	2.18	0.43
2:H:652:ILE:CG2	2:H:656:ARG:HB2	2.47	0.43
2:H:691:THR:OG1	2:H:715:SER:HB3	2.18	0.43
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	2.00	0.43
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.65	0.43
2:I:200:LEU:O	2:I:204:ILE:HG13	2.18	0.43
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.54	0.43
2:I:1442:TYR:HA	2:I:1445:THR:CG2	2.47	0.43
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.48	0.43
2:J:161:ALA:HA	2:J:164:GLU:HB2	1.99	0.43
2:K:37:VAL:HG11	2:K:42:HIS:HA	1.99	0.43
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.19	0.43
2:K:114:MET:HG2	2:K:122:ILE:HG21	2.00	0.43
2:K:221:TYR:CE2	2:K:225:LEU:HD12	2.53	0.43
2:K:270:ARG:HB3	2:K:274:GLU:HB2	2.00	0.43
2:K:731:ALA:CB	2:K:739:ILE:HD12	2.48	0.43
2:K:779:GLY:HA3	2:K:811:MET:HE2	1.99	0.43
2:K:1351:VAL:HG21	2:K:1583:VAL:O	2.18	0.43
2:K:1672:LYS:HG2	2:K:1672:LYS:O	2.18	0.43
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.92	0.43
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.32	0.43
2:L:154:TYR:CE1	2:L:561:ARG:NH1	2.86	0.43
2:L:342:ASN:HD22	2:L:342:ASN:N	2.15	0.43
2:L:604:MET:HG3	2:L:627:HIS:O	2.18	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.80	0.43
2:L:879:LEU:HB3	2:L:884:PHE:CE1	2.53	0.43
2:L:1362:PHE:N	2:L:1363:PRO:CD	2.81	0.43
2:L:1722:ALA:CB	2:L:1812:LEU:HD11	2.48	0.43
1:A:72:THR:O	1:A:73:SER:HB3	2.18	0.43
1:A:389:PRO:HD3	1:F:374:LEU:HD11	2.00	0.43
1:A:612:ILE:CD1	1:F:579:MET:HE3	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:ILE:HD12	2:H:1818:PHE:HD1	1.83	0.43
1:B:444:LEU:HD22	1:B:448:MET:CG	2.49	0.43
1:B:744:VAL:HG12	1:B:746:PHE:CD1	2.53	0.43
1:B:1038:HIS:CE1	1:B:1042:LEU:HG	2.53	0.43
1:B:1149:LEU:HD12	1:D:1097:LEU:CD1	2.48	0.43
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.18	0.43
1:B:1386:THR:HG22	1:B:1387:ASP:H	1.83	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:C:444:LEU:HD22	1:C:448:MET:CG	2.47	0.43
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.17	0.43
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.38	0.43
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	1.99	0.43
1:D:1210:TYR:HA	1:D:1213:VAL:O	2.18	0.43
1:E:875:GLU:O	1:E:878:PHE:HB3	2.18	0.43
1:E:996:VAL:HG11	1:E:1578:LEU:CD1	2.48	0.43
2:G:28:HIS:O	2:G:31:LEU:HD12	2.18	0.43
2:G:462:ALA:HB3	2:G:481:LEU:O	2.17	0.43
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.99	0.43
2:G:960:GLY:O	2:G:963:ILE:HB	2.18	0.43
2:G:1266:HIS:C	2:G:1268:GLU:N	2.71	0.43
2:H:551:GLU:HG3	2:H:770:LYS:NZ	2.34	0.43
2:H:857:VAL:HG11	2:H:876:TRP:NE1	2.30	0.43
2:H:914:TRP:CZ3	2:H:1033:ALA:HA	2.53	0.43
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	2.00	0.43
2:H:1266:HIS:C	2:H:1268:GLU:N	2.72	0.43
2:H:1762:MET:HG2	2:H:1779:LYS:NZ	2.33	0.43
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.53	0.43
2:H:1904:VAL:HG13	2:H:1915:LEU:HG	2.00	0.43
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.88	0.43
2:I:471:ASP:OD1	2:I:493:MET:HE3	2.19	0.43
2:I:823:HIS:HB3	2:I:1051:GLU:HG3	2.01	0.43
2:I:1932:ASP:OD2	2:I:1934:ARG:HD2	2.18	0.43
2:I:2053:GLU:H	2:I:2053:GLU:HG3	1.51	0.43
2:J:196:PHE:O	2:J:262:MET:HE1	2.18	0.43
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	2.00	0.43
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.18	0.43
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	2.01	0.43
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.18	0.43
2:K:1261:PHE:HE2	2:K:1285:ILE:HD11	1.83	0.43
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.43
2:L:289:ILE:HG21	2:L:493:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.43
2:L:618:VAL:HG13	2:L:619:ALA:N	2.33	0.43
2:L:1036:GLU:H	2:L:1036:GLU:HG3	1.47	0.43
2:L:1317:ASN:OD1	2:L:1319:GLN:HB3	2.19	0.43
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.53	0.43
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.89	0.43
1:A:1037:ASN:HD21	2:G:1011:GLN:HG2	1.83	0.43
1:A:1288:ASP:O	1:A:1291:TYR:HB3	2.18	0.43
1:A:1420:TYR:OH	1:E:1473:HIS:CE1	2.69	0.43
1:B:427:ARG:NH2	1:B:517:ARG:O	2.51	0.43
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.48	0.43
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.17	0.43
1:C:18:LEU:HD13	2:I:1841:TYR:CE2	2.53	0.43
1:C:1249:ILE:HD12	1:C:1250:LEU:N	2.33	0.43
1:C:1473:HIS:CE1	1:F:1420:TYR:OH	2.71	0.43
1:C:1581:LEU:HD13	1:C:1638:HIS:HA	2.00	0.43
1:D:631:LYS:O	1:D:635:ILE:HG13	2.18	0.43
1:D:991:ASP:HA	1:D:1364:THR:CG2	2.48	0.43
1:D:1015:GLU:HA	1:D:1561:LEU:HD12	2.00	0.43
1:D:1359:VAL:CG1	1:D:1360:GLN:N	2.80	0.43
1:E:728:TYR:CE2	1:E:736:LEU:HD13	2.54	0.43
1:E:1086:PHE:CZ	1:E:1310:PHE:HD2	2.36	0.43
1:E:1343:PRO:HA	1:E:1526:SER:HA	1.99	0.43
1:F:22:PHE:CE2	2:L:2017:PHE:CG	3.04	0.43
1:F:27:ARG:HG3	2:L:2045:ALA:HB2	1.99	0.43
1:F:47:ILE:HD12	2:L:1694:PHE:HE1	1.83	0.43
1:F:574:ILE:HG12	1:F:574:ILE:H	1.69	0.43
1:F:983:GLN:HB3	1:F:1418:ILE:CD1	2.48	0.43
1:F:1484:GLU:O	1:F:1487:THR:HB	2.19	0.43
1:F:1522:PHE:HE2	1:F:1535:SER:HA	1.82	0.43
2:G:92:GLU:C	2:G:94:ALA:H	2.22	0.43
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.82	0.43
2:G:342:ASN:N	2:G:342:ASN:HD22	2.16	0.43
2:G:421:PHE:C	2:G:423:GLN:H	2.21	0.43
2:G:866:HIS:HB3	2:G:1068:GLN:O	2.18	0.43
2:G:1179:GLU:CD	2:G:1179:GLU:N	2.70	0.43
2:G:1276:GLU:HB3	2:G:1278:MET:HE2	1.99	0.43
2:G:2038:LYS:HD3	2:G:2038:LYS:HA	1.75	0.43
2:H:92:GLU:C	2:H:94:ALA:H	2.21	0.43
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.48	0.43
2:H:750:GLY:O	2:H:865:ILE:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:769:ARG:HD3	2:H:769:ARG:HA	1.81	0.43
2:H:884:PHE:HE2	2:H:1039:GLU:CA	2.30	0.43
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.43
2:H:1662:ARG:HG2	2:H:1686:GLU:HG2	2.00	0.43
2:I:182:TYR:CD1	2:I:183:PHE:N	2.86	0.43
2:I:555:LYS:HB3	2:I:556:PRO:HD3	2.00	0.43
2:I:609:THR:HG23	3:I:2101:FMN:O4	2.19	0.43
2:I:615:TRP:HA	2:I:618:VAL:CG1	2.48	0.43
2:I:741:LEU:HG	2:I:741:LEU:O	2.19	0.43
2:I:788:THR:CG2	2:I:1094:HIS:CE1	3.01	0.43
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.48	0.43
2:I:1515:LEU:HB3	2:I:1525:VAL:HG21	2.01	0.43
2:I:1901:GLN:HB3	2:I:1905:GLU:OE2	2.17	0.43
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	2.00	0.43
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.82	0.43
2:J:868:LEU:HD12	2:J:868:LEU:HA	1.80	0.43
2:J:910:PHE:HD2	2:J:912:LYS:H	1.63	0.43
2:J:1156:ASP:HB2	2:J:1159:SER:N	2.18	0.43
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.17	0.43
2:J:1376:LEU:O	2:J:1639:MET:HG2	2.17	0.43
2:J:1589:PRO:HB2	2:J:1596:PHE:HB3	2.01	0.43
2:K:609:THR:HG23	3:K:2101:FMN:O4	2.18	0.43
2:K:613:VAL:N	2:K:614:PRO:CD	2.80	0.43
2:K:674:ILE:HB	2:K:675:PRO:HD3	2.01	0.43
2:K:1348:PHE:CE1	2:K:1351:VAL:HG11	2.54	0.43
2:K:1804:GLN:CG	2:K:1865:LEU:HD23	2.48	0.43
2:L:197:VAL:CG2	2:L:263:ILE:HD11	2.48	0.43
2:L:208:LEU:HB3	2:L:225:LEU:HD13	1.99	0.43
2:L:342:ASN:CB	2:L:406:ARG:NH2	2.81	0.43
2:L:676:LEU:HD23	2:L:679:ARG:NH2	2.33	0.43
2:L:690:LEU:HD22	2:L:691:THR:H	1.82	0.43
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.43
2:L:890:LYS:HE3	2:L:890:LYS:HB2	1.82	0.43
2:L:1067:LEU:HB2	3:L:2101:FMN:HM71	1.99	0.43
2:L:1125:ASP:HB2	2:L:1126:GLU:H	1.55	0.43
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	2.00	0.43
2:L:1464:LEU:C	2:L:1464:LEU:HD13	2.37	0.43
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	2.00	0.43
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.99	0.43
1:A:458:GLU:CD	1:A:458:GLU:H	2.21	0.43
1:A:883:LEU:HA	1:A:888:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1149:LEU:HD23	1:A:1149:LEU:HA	1.72	0.43
1:B:449:GLN:HG3	1:B:474:ILE:HD13	2.00	0.43
1:C:673:LEU:HD21	1:C:884:MET:CE	2.48	0.43
1:C:997:THR:HG22	1:C:1361:VAL:HG22	2.01	0.43
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.66	0.43
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.19	0.43
1:C:1525:THR:OG1	1:C:1527:THR:HG23	2.18	0.43
1:C:1687:TYR:CD2	1:C:1687:TYR:N	2.86	0.43
1:D:449:GLN:O	1:D:452:ILE:HG22	2.19	0.43
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	2.01	0.43
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.19	0.43
1:D:1301:VAL:HG23	1:D:1363:MET:CG	2.48	0.43
1:D:1432:ILE:HD11	1:D:1481:GLN:CB	2.47	0.43
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.18	0.43
1:F:405:TRP:HA	1:F:405:TRP:CE3	2.53	0.43
1:F:548:VAL:HG12	1:F:552:ILE:HD12	2.00	0.43
1:F:828:TRP:NE1	1:F:838:THR:HA	2.33	0.43
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.98	0.43
1:F:997:THR:HG22	1:F:1361:VAL:HG22	1.98	0.43
1:F:1432:ILE:HD11	1:F:1481:GLN:CB	2.49	0.43
2:G:200:LEU:O	2:G:204:ILE:HG13	2.18	0.43
2:G:250:PHE:O	2:G:315:LEU:HD23	2.19	0.43
2:G:859:SER:CB	2:G:863:GLU:HG3	2.48	0.43
2:G:1261:PHE:HE2	2:G:1285:ILE:HD11	1.84	0.43
2:G:1863:ARG:HG2	2:G:1863:ARG:HH11	1.83	0.43
3:G:2101:FMN:H9	3:G:2101:FMN:H1'2	1.82	0.43
2:H:114:MET:HG2	2:H:122:ILE:HG21	2.00	0.43
2:H:250:PHE:O	2:H:315:LEU:HD23	2.18	0.43
2:H:875:PHE:HE2	2:H:906:LEU:CD2	2.32	0.43
2:H:1036:GLU:H	2:H:1036:GLU:HG3	1.45	0.43
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.48	0.43
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.19	0.43
2:H:1977:ARG:CD	2:H:1978:LYS:HE3	2.48	0.43
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.83	0.43
2:I:1081:GLU:H	2:I:1081:GLU:HG3	1.64	0.43
2:I:1335:PHE:N	2:I:1335:PHE:CD1	2.86	0.43
2:J:788:THR:CG2	2:J:1094:HIS:CE1	3.01	0.43
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.79	0.43
2:J:1504:TYR:HD2	2:J:1507:VAL:HG11	1.82	0.43
2:K:172:ILE:HG23	2:K:515:ASP:HA	2.01	0.43
2:K:1335:PHE:CE1	2:K:1629:ILE:CD1	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1419:LEU:HD23	2:K:1419:LEU:HA	1.86	0.43
2:K:1478:GLN:CG	2:K:1479:HIS:N	2.80	0.43
2:L:27:THR:HG22	2:L:32:GLU:HG2	2.01	0.43
2:L:478:LEU:HD22	2:L:481:LEU:HD11	2.00	0.43
2:L:1259:LEU:HD11	2:L:1285:ILE:HG12	2.00	0.43
2:L:1333:GLU:HG3	2:L:1338:ARG:HD2	2.01	0.43
2:L:1687:GLN:O	2:L:1828:GLN:NE2	2.51	0.43
1:A:749:ILE:CD1	1:A:769:ILE:HD12	2.49	0.43
1:A:1081:ILE:HD12	1:A:1091:PRO:CG	2.48	0.43
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.79	0.43
1:A:1503:LEU:HD21	1:A:1635:ILE:HD11	2.00	0.43
1:B:11:TYR:HD1	2:H:2030:ILE:HD12	1.82	0.43
1:B:1213:VAL:HG22	1:B:1300:ARG:HE	1.84	0.43
1:C:374:LEU:HD11	1:D:389:PRO:HD3	2.01	0.43
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.43
1:C:1542:LEU:HD23	1:C:1542:LEU:HA	1.82	0.43
1:D:13:LEU:HG	2:J:2048:PHE:CE1	2.53	0.43
1:D:538:ARG:O	1:D:579:MET:HE1	2.18	0.43
1:D:648:LEU:HD12	1:D:649:THR:H	1.84	0.43
1:D:902:ASN:C	1:D:904:GLY:H	2.22	0.43
1:D:1055:THR:C	1:D:1057:GLU:H	2.22	0.43
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.18	0.43
1:D:1219:GLY:O	1:D:1302:CYS:HA	2.19	0.43
1:D:1686:PRO:HB2	1:D:1713:PHE:CD2	2.53	0.43
1:E:552:ILE:HG21	1:E:566:PHE:CE2	2.52	0.43
1:E:628:TYR:HD1	1:E:628:TYR:C	2.21	0.43
1:E:1210:TYR:HA	1:E:1213:VAL:O	2.17	0.43
1:E:1364:THR:HG22	1:E:1366:GLN:N	2.33	0.43
1:E:1447:VAL:HG21	1:E:1467:LEU:HD11	1.99	0.43
1:E:1503:LEU:HD21	1:E:1635:ILE:HD11	2.00	0.43
1:F:1038:HIS:CE1	1:F:1042:LEU:HG	2.54	0.43
1:F:1157:ASP:HB3	1:F:1326:ASN:OD1	2.18	0.43
1:F:1620:PHE:CE2	1:F:1636:GLY:HA3	2.54	0.43
2:G:875:PHE:HE2	2:G:906:LEU:CD2	2.32	0.43
2:G:1106:LYS:HB2	2:G:1109:ASN:ND2	2.34	0.43
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.19	0.43
2:G:1456:LEU:HD23	2:G:1457:HIS:N	2.34	0.43
2:G:1554:PRO:CG	2:G:1659:ILE:HD11	2.41	0.43
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.18	0.43
2:H:197:VAL:CG2	2:H:263:ILE:HD11	2.46	0.43
2:H:298:ALA:HB2	2:H:304:PHE:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1175:MET:HA	2:H:1274:ILE:HD11	2.00	0.43
2:H:1335:PHE:N	2:H:1335:PHE:HD1	2.16	0.43
2:H:1851:MET:SD	2:H:1856:LEU:HA	2.58	0.43
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.43	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.85	0.43
2:I:465:LEU:HD23	2:I:465:LEU:HA	1.70	0.43
2:I:617:PHE:HE2	2:I:628:ILE:HD11	1.82	0.43
2:I:674:ILE:HB	2:I:675:PRO:HD3	2.01	0.43
2:I:932:ALA:O	2:I:935:VAL:HG13	2.19	0.43
2:I:1245:THR:HG23	2:I:1260:THR:OG1	2.18	0.43
2:I:1290:TYR:CG	2:I:1299:VAL:CG1	2.92	0.43
2:I:1832:THR:HG21	2:I:2040:ILE:HD11	2.00	0.43
2:I:1942:VAL:O	2:I:1946:LEU:HG	2.18	0.43
2:J:129:ILE:HG12	2:J:131:ALA:HB3	1.99	0.43
2:J:274:GLU:O	2:J:278:ARG:HG2	2.18	0.43
2:J:1335:PHE:CD1	2:J:1335:PHE:N	2.85	0.43
2:J:1933:LEU:O	2:J:1989:LEU:HD11	2.18	0.43
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.18	0.43
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.54	0.43
2:K:326:TYR:CE2	2:L:1338:ARG:NH1	2.87	0.43
2:K:342:ASN:CB	2:K:406:ARG:NH2	2.82	0.43
2:K:350:MET:HG3	2:K:435:ILE:CB	2.48	0.43
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.47	0.43
2:K:605:VAL:HB	2:K:628:ILE:CG1	2.42	0.43
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.54	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.70	0.43
2:K:1299:VAL:HG23	2:K:1301:PHE:CD2	2.54	0.43
2:K:1460:THR:HB	2:K:1463:ASP:OD1	2.18	0.43
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	2.00	0.43
2:K:1766:PHE:CE1	2:K:1869:VAL:HB	2.53	0.43
2:L:320:LEU:O	2:L:324:GLN:HG3	2.19	0.43
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.99	0.43
2:L:915:PHE:O	2:L:915:PHE:CG	2.72	0.43
2:L:1335:PHE:CD1	2:L:1629:ILE:HD11	2.52	0.43
2:L:1766:PHE:CE2	2:L:1869:VAL:HG23	2.53	0.43
2:L:1832:THR:HG21	2:L:2040:ILE:HD11	2.00	0.43
1:A:918:LEU:HD23	1:A:921:GLU:OE2	2.19	0.43
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.52	0.43
1:A:1581:LEU:HD23	1:A:1581:LEU:HA	1.84	0.43
1:B:61:LEU:HA	1:B:65:TYR:HB2	2.01	0.43
1:B:565:GLN:O	1:B:565:GLN:CG	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:819:LEU:HD23	1:E:820:ALA:HA	2.00	0.43
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	2.01	0.43
1:B:1554:LEU:HD22	1:B:1608:PRO:HG3	2.00	0.43
1:B:1564:HIS:ND1	1:B:1564:HIS:C	2.72	0.43
1:C:616:HIS:C	1:C:617:LEU:HD23	2.39	0.43
1:C:739:ASP:OD2	1:C:790:TYR:CG	2.72	0.43
1:C:965:TYR:CZ	1:C:1199:LEU:CD2	2.98	0.43
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.49	0.43
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.62	0.43
1:E:1491:ASN:HD22	1:E:1491:ASN:N	2.15	0.43
1:F:850:THR:C	1:F:852:LEU:H	2.22	0.43
1:F:1301:VAL:HG23	1:F:1363:MET:CG	2.49	0.43
1:F:1472:GLU:O	1:F:1475:GLU:HB2	2.19	0.43
2:G:617:PHE:HE2	2:G:628:ILE:HD11	1.84	0.43
2:G:1261:PHE:HA	2:G:1284:ARG:NH1	2.33	0.43
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.49	0.43
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.66	0.43
2:G:1942:VAL:O	2:G:1946:LEU:HG	2.18	0.43
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.19	0.43
2:H:357:THR:HG22	2:H:359:SER:H	1.82	0.43
2:H:583:THR:HG1	2:H:587:GLN:HB2	1.83	0.43
2:H:1406:ASN:HB3	2:H:1411:LYS:HG3	2.00	0.43
2:H:1766:PHE:CZ	2:H:1869:VAL:HB	2.54	0.43
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.49	0.43
2:I:253:ILE:HB	2:I:287:GLN:NE2	2.34	0.43
2:I:468:PRO:HD3	2:I:479:ARG:HH21	1.80	0.43
2:I:605:VAL:HB	2:I:628:ILE:CG1	2.42	0.43
2:I:608:MET:HB3	2:I:608:MET:HE2	1.94	0.43
2:I:616:ASP:OD1	2:I:616:ASP:N	2.51	0.43
2:I:747:ARG:HD3	2:I:1071:VAL:HG11	2.00	0.43
2:I:943:TYR:OH	2:I:948:LYS:HA	2.19	0.43
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.72	0.43
2:I:1588:ASN:OD1	2:I:1589:PRO:HD2	2.19	0.43
2:I:1804:GLN:CG	2:I:1865:LEU:HD23	2.48	0.43
2:I:2017:PHE:HE2	2:I:2021:LEU:HD11	1.84	0.43
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.84	0.43
2:J:462:ALA:HB3	2:J:481:LEU:O	2.18	0.43
2:J:465:LEU:HA	2:J:465:LEU:HD23	1.73	0.43
2:J:871:ARG:HB2	2:J:909:ASP:HB2	2.01	0.43
2:J:1179:GLU:HB3	2:J:1193:LYS:HE3	1.99	0.43
2:J:1316:VAL:HB	2:J:1391:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.18	0.43
2:J:1464:LEU:HD11	2:J:1468:ARG:HD2	2.00	0.43
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.22	0.43
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.33	0.43
2:J:1942:VAL:O	2:J:1946:LEU:HG	2.17	0.43
2:K:1106:LYS:HB2	2:K:1109:ASN:ND2	2.33	0.43
2:K:1175:MET:CE	2:K:1192:LEU:HD11	2.48	0.43
2:L:113:PHE:N	2:L:113:PHE:CD1	2.86	0.43
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	1.99	0.43
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.22	0.43
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.19	0.43
2:L:1672:LYS:O	2:L:1672:LYS:HG2	2.18	0.43
2:L:1762:MET:HG2	2:L:1779:LYS:HZ1	1.83	0.43
2:L:1904:VAL:HG13	2:L:1915:LEU:HG	2.01	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.17	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.64	0.43
1:A:701:ARG:HH11	1:A:1610:ARG:NH2	2.16	0.43
1:A:744:VAL:CG1	1:A:746:PHE:CE1	3.02	0.43
1:A:1640:LYS:CG	1:A:1641:TYR:CD1	3.02	0.43
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.18	0.43
1:C:548:VAL:HG12	1:C:552:ILE:HD12	2.00	0.43
1:C:670:LEU:CD1	1:C:680:VAL:HG21	2.49	0.43
1:C:755:GLU:C	1:C:757:ASP:N	2.71	0.43
1:C:999:LEU:HD11	1:C:1575:ASN:CB	2.47	0.43
1:C:1052:ASP:HB3	1:C:1055:THR:HG23	2.01	0.43
1:C:1134:GLU:H	1:C:1134:GLU:HG3	1.68	0.43
1:C:1164:ILE:HD13	1:C:1355:GLN:HG3	2.01	0.43
1:C:1601:GLN:HB2	1:C:1602:PHE:CD2	2.54	0.43
1:D:28:TRP:CE2	1:D:53:LEU:HD22	2.54	0.43
1:D:1011:ARG:HD2	1:D:1011:ARG:C	2.39	0.43
1:E:938:ILE:HG21	2:K:1546:ARG:NH2	2.34	0.43
1:E:1037:ASN:ND2	1:E:1674:ILE:HG12	2.33	0.43
1:E:1168:TRP:HE1	1:E:1173:TYR:HE1	1.66	0.43
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.18	0.43
1:E:1220:ASN:HB3	1:E:1273:ILE:HG22	1.99	0.43
1:E:1522:PHE:HE2	1:E:1535:SER:HA	1.83	0.43
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.83	0.43
1:F:418:ILE:HA	1:F:462:THR:HB	2.01	0.43
1:F:900:ASP:C	1:F:901:LEU:HD23	2.39	0.43
1:F:1022:LEU:O	1:F:1022:LEU:HD13	2.18	0.43
1:F:1607:TYR:HA	1:F:1608:PRO:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.49	0.43
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.40	0.43
2:G:615:TRP:CE3	2:G:647:LYS:HB3	2.54	0.43
2:G:725:GLN:HE21	2:G:767:ARG:HH11	1.67	0.43
2:G:1014:GLN:O	2:G:1018:LEU:HG	2.19	0.43
2:G:1108:GLU:H	2:G:1108:GLU:HG3	1.57	0.43
2:G:1799:LEU:C	2:G:1801:SER:H	2.21	0.43
2:H:1194:ARG:NH2	2:H:1601:ASN:OD1	2.52	0.43
2:H:1211:ASP:HA	2:H:1212:PRO:HD2	1.83	0.43
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	2.00	0.43
2:I:787:ASP:O	2:I:790:PRO:HD2	2.19	0.43
2:I:1346:MET:HE3	2:I:1617:ARG:NH2	2.34	0.43
2:I:1362:PHE:N	2:I:1363:PRO:CD	2.82	0.43
2:I:1690:THR:HG22	2:I:1691:ALA:N	2.34	0.43
2:I:1884:CYS:CB	2:I:1936:LEU:HD12	2.47	0.43
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.53	0.43
2:J:208:LEU:HB3	2:J:225:LEU:HD13	2.00	0.43
2:J:227:ILE:H	2:J:227:ILE:HG13	1.65	0.43
2:J:616:ASP:N	2:J:616:ASP:OD1	2.51	0.43
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.53	0.43
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	2.01	0.43
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.19	0.43
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.19	0.43
2:K:399:TYR:CE2	2:K:403:LEU:HD11	2.53	0.43
2:K:555:LYS:HB3	2:K:556:PRO:HD3	1.99	0.43
2:K:590:VAL:CG2	2:K:1091:HIS:CD2	3.00	0.43
2:L:73:VAL:HG13	2:L:113:PHE:HD2	1.83	0.43
2:L:291:VAL:O	2:L:295:ILE:HB	2.19	0.43
2:L:506:VAL:O	2:L:506:VAL:HG22	2.18	0.43
2:L:617:PHE:HE2	2:L:628:ILE:HD11	1.84	0.43
2:L:657:GLY:HA3	2:L:688:GLU:HG2	2.00	0.43
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.82	0.43
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.17	0.43
2:L:1014:GLN:O	2:L:1018:LEU:HG	2.18	0.43
2:L:1204:VAL:HA	2:L:1218:SER:O	2.19	0.43
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	2.01	0.43
2:L:1316:VAL:HB	2:L:1391:VAL:O	2.19	0.43
2:L:1474:LYS:HE3	2:L:1529:ASP:HB3	2.01	0.43
2:L:1953:ILE:O	2:L:1957:MET:HG2	2.19	0.43
1:A:534:GLN:O	1:F:575:ARG:HD3	2.18	0.43
1:A:755:GLU:HB2	1:A:757:ASP:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:987:MET:SD	1:A:1422:ARG:HG2	2.59	0.43
1:A:1030:TRP:CE2	1:A:1673:LEU:HD22	2.54	0.43
1:A:1079:ARG:HG2	1:A:1079:ARG:NH1	2.10	0.43
1:A:1158:ARG:HD2	1:A:1324:THR:HB	2.01	0.43
1:A:1170:ALA:CB	1:A:1188:LEU:HD13	2.49	0.43
1:B:408:GLN:O	1:B:412:SER:HB2	2.19	0.43
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.38	0.43
1:B:1019:LYS:HB2	1:B:1019:LYS:HE3	1.67	0.43
1:B:1176:PRO:O	1:B:1180:ILE:HG12	2.18	0.43
1:B:1581:LEU:HD23	1:B:1581:LEU:HA	1.86	0.43
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.18	0.43
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	2.01	0.43
1:E:1022:LEU:O	1:E:1022:LEU:HD13	2.19	0.43
1:E:1224:SER:HB3	1:E:1307:PHE:CE2	2.54	0.43
1:F:535:TYR:HD2	1:F:540:LYS:HG2	1.84	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.46	0.43
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.34	0.43
2:G:1067:LEU:HD12	2:G:1067:LEU:H	1.83	0.43
2:G:1224:GLN:HG3	2:G:1578:GLU:OE2	2.19	0.43
2:H:608:MET:HA	3:H:2101:FMN:N5	2.34	0.43
2:H:747:ARG:H	2:H:747:ARG:HG3	1.54	0.43
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.18	0.43
2:H:942:MET:HG2	2:H:1029:PRO:HG2	2.01	0.43
2:I:68:GLU:HB3	2:I:69:PRO:HD2	2.00	0.43
2:I:114:MET:HG2	2:I:122:ILE:HG21	2.00	0.43
2:I:220:GLN:NE2	2:I:324:GLN:HG2	2.34	0.43
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.19	0.43
2:I:759:GLN:N	2:I:760:PRO:CD	2.81	0.43
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.54	0.43
2:I:1205:GLU:O	2:I:1217:ILE:HA	2.19	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:I:1607:THR:HG22	2:I:1608:HIS:N	2.34	0.43
2:J:134:ILE:HG12	2:J:545:ILE:HD12	2.01	0.43
2:J:605:VAL:HG22	2:J:816:MET:HG3	2.00	0.43
2:J:1308:VAL:CG1	2:J:1398:THR:HG23	2.48	0.43
2:J:1616:VAL:O	2:J:1620:VAL:HG23	2.18	0.43
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.92	0.43
2:K:120:HIS:NE2	2:K:137:VAL:HG11	2.34	0.43
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.99	0.43
2:K:406:ARG:HA	2:K:409:LYS:HG2	2.01	0.43
2:K:465:LEU:HD23	2:K:465:LEU:HA	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:467:ILE:CG2	2:K:468:PRO:HD2	2.48	0.43
2:K:879:LEU:HB3	2:K:884:PHE:CE1	2.53	0.43
2:K:1028:VAL:HG22	2:K:1030:PHE:CE2	2.53	0.43
2:K:1871:VAL:HG23	2:K:2003:VAL:HG13	2.01	0.43
2:K:1960:MET:SD	2:K:1965:VAL:HG13	2.59	0.43
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	2.00	0.43
2:L:92:GLU:C	2:L:94:ALA:H	2.22	0.43
2:L:208:LEU:HD23	2:L:211:LEU:HD12	2.00	0.43
2:L:253:ILE:HB	2:L:287:GLN:NE2	2.33	0.43
2:L:600:VAL:CG1	2:L:601:PRO:HD2	2.46	0.43
2:L:641:MET:CE	2:L:676:LEU:HD12	2.49	0.43
2:L:644:ALA:O	2:L:648:ILE:HG13	2.19	0.43
2:L:1276:GLU:HB3	2:L:1278:MET:HE2	2.00	0.43
1:A:1042:LEU:HD23	1:A:1042:LEU:HA	1.77	0.43
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.43	0.43
1:B:470:GLY:O	1:B:474:ILE:HG13	2.18	0.43
1:B:613:PRO:C	1:B:615:LEU:N	2.73	0.43
1:B:821:LEU:HD23	1:B:821:LEU:HA	1.89	0.43
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.01	0.43
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.18	0.43
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	2.00	0.43
1:C:408:GLN:HE22	1:C:1609:SER:N	2.14	0.43
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.41	0.43
1:C:714:PHE:CD1	1:C:725:LEU:HD12	2.53	0.43
1:C:1389:ILE:HD13	1:F:1682:LYS:HB3	2.00	0.43
1:C:1432:ILE:HD11	1:C:1481:GLN:CB	2.49	0.43
1:D:408:GLN:O	1:D:412:SER:HB2	2.19	0.43
1:D:605:ARG:O	1:D:607:GLY:N	2.52	0.43
1:D:689:ARG:NE	1:D:1339:GLU:CG	2.76	0.43
1:D:874:GLN:H	1:D:874:GLN:HG2	1.34	0.43
1:D:1071:TYR:CE2	1:D:1075:HIS:HB2	2.54	0.43
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.19	0.43
1:D:1447:VAL:HG21	1:D:1467:LEU:HD11	2.00	0.43
1:E:450:TYR:C	1:E:450:TYR:CD2	2.91	0.43
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.12	0.43
1:F:958:GLU:HA	1:F:959:PRO:HD3	1.93	0.43
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.76	0.43
1:F:1249:ILE:HD12	1:F:1250:LEU:N	2.34	0.43
1:F:1288:ASP:O	1:F:1291:TYR:HB3	2.19	0.43
2:G:871:ARG:HB2	2:G:909:ASP:HB2	2.01	0.43
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1452:VAL:O	2:G:1454:MET:HG3	2.19	0.43
2:G:1863:ARG:HB2	2:G:2017:PHE:HE1	1.84	0.43
2:H:276:LEU:HD13	2:H:466:VAL:HG21	2.01	0.43
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.84	0.43
2:H:615:TRP:CE3	2:H:647:LYS:HB3	2.53	0.43
2:H:727:VAL:HA	2:H:730:ILE:HG12	2.01	0.43
2:H:930:THR:HA	2:H:1007:LEU:HA	2.01	0.43
2:H:1106:LYS:HB2	2:H:1109:ASN:ND2	2.34	0.43
2:H:1259:LEU:HD11	2:H:1285:ILE:HG12	2.00	0.43
2:H:1915:LEU:HD13	2:H:1936:LEU:HD22	2.00	0.43
2:I:283:THR:HG23	2:I:470:TYR:O	2.19	0.43
2:I:737:PHE:O	2:I:773:ASN:HB3	2.19	0.43
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.78	0.43
2:I:747:ARG:H	2:I:747:ARG:HG3	1.57	0.43
2:I:1722:ALA:CB	2:I:1812:LEU:HD11	2.49	0.43
2:I:1863:ARG:O	2:I:1867:MET:HG3	2.19	0.43
2:I:1904:VAL:HG13	2:I:1915:LEU:HG	2.00	0.43
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.67	0.43
2:J:604:MET:HG3	2:J:627:HIS:HD2	1.83	0.43
2:J:740:ILE:HA	2:J:775:VAL:HB	2.01	0.43
2:J:798:THR:HA	2:J:802:TYR:O	2.19	0.43
2:J:1558:GLU:O	2:J:1560:PRO:HD3	2.19	0.43
2:J:1808:PRO:O	2:J:1812:LEU:HD23	2.18	0.43
2:J:1972:ILE:H	2:J:1972:ILE:HG13	1.38	0.43
2:K:938:MET:O	2:K:942:MET:HG3	2.19	0.43
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	2.00	0.43
2:K:1871:VAL:HG12	2:K:1872:GLU:N	2.34	0.43
2:K:2038:LYS:HA	2:K:2038:LYS:HD3	1.77	0.43
2:L:289:ILE:HG21	2:L:493:MET:HE2	2.01	0.43
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.53	0.43
2:L:540:ILE:CD1	2:L:557:GLU:HB3	2.48	0.43
2:L:871:ARG:HB2	2:L:909:ASP:HB2	2.01	0.43
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.19	0.43
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	2.01	0.43
2:L:1572:ARG:HG2	2:L:1647:ASP:O	2.19	0.43
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.19	0.43
2:L:1944:ASN:HA	2:L:1993:PHE:HD1	1.83	0.43
3:L:2101:FMN:H9	3:L:2101:FMN:H1'2	1.82	0.43
1:A:75:GLN:NE2	2:I:335:THR:HG23	2.34	0.42
1:A:1168:TRP:NE1	1:A:1173:TYR:CE1	2.79	0.42
1:B:23:ALA:HA	2:H:2007:SER:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:ILE:HD11	2:H:1923:ALA:N	2.34	0.42
1:B:997:THR:HB	1:B:1363:MET:HE2	2.01	0.42
1:B:1098:GLN:HB2	1:B:1152:LYS:HE2	2.01	0.42
1:C:450:TYR:CD2	1:C:450:TYR:C	2.92	0.42
1:D:326:ASP:HB3	1:D:333:ARG:NH1	2.23	0.42
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.33	0.42
1:D:449:GLN:HG3	1:D:474:ILE:HD13	2.01	0.42
1:D:743:VAL:HG12	1:D:745:PRO:HG3	2.01	0.42
1:F:404:ASN:HD21	1:F:1607:TYR:H	1.66	0.42
1:F:414:TYR:O	1:F:418:ILE:HG13	2.18	0.42
1:F:648:LEU:HD12	1:F:649:THR:N	2.34	0.42
1:F:827:ARG:HB3	1:F:833:TRP:HZ2	1.84	0.42
1:F:948:HIS:O	1:F:952:TYR:HD2	2.02	0.42
1:F:1071:TYR:C	1:F:1071:TYR:HD2	2.23	0.42
1:F:1184:ASP:OD1	1:F:1185:PRO:HD2	2.19	0.42
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.73	0.42
2:G:211:LEU:HB3	2:G:316:PHE:CZ	2.54	0.42
2:G:420:PRO:HB2	2:G:423:GLN:HB2	2.01	0.42
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.01	0.42
2:G:868:LEU:HD12	2:G:868:LEU:HA	1.80	0.42
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.54	0.42
2:G:1048:TRP:CE2	2:G:1049:GLN:HG2	2.54	0.42
2:G:1362:PHE:N	2:G:1363:PRO:CD	2.82	0.42
2:H:141:TYR:HA	2:H:144:ARG:HB3	2.01	0.42
2:H:211:LEU:HB3	2:H:316:PHE:CZ	2.53	0.42
2:H:221:TYR:CE2	2:H:225:LEU:HD12	2.54	0.42
2:H:478:LEU:HD22	2:H:481:LEU:HD11	2.01	0.42
2:H:914:TRP:O	2:H:916:GLY:N	2.46	0.42
2:H:943:TYR:OH	2:H:948:LYS:HA	2.19	0.42
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.54	0.42
2:I:641:MET:CE	2:I:676:LEU:HD12	2.48	0.42
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.32	0.42
2:J:665:VAL:C	2:J:667:PRO:HD3	2.39	0.42
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.32	0.42
2:K:306:THR:O	2:K:310:ARG:HG3	2.19	0.42
2:K:943:TYR:OH	2:K:948:LYS:HA	2.19	0.42
2:K:1631:ARG:NH2	2:K:1688:PRO:HA	2.34	0.42
2:L:26:LEU:HD23	2:L:26:LEU:HA	1.78	0.42
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	2.01	0.42
2:L:1818:PHE:HE2	2:L:1822:ARG:NH1	2.17	0.42
2:L:1944:ASN:HA	2:L:1993:PHE:CE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.82	0.42
1:A:23:ALA:HA	2:G:2007:SER:O	2.19	0.42
1:A:498:THR:HG21	1:A:858:LEU:HA	2.02	0.42
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.19	0.42
1:A:1475:GLU:HB3	1:A:1479:ARG:NH2	2.33	0.42
1:B:552:ILE:HD11	1:E:566:PHE:CE1	2.53	0.42
1:B:1461:PHE:CE2	1:D:1411:PHE:CE1	3.07	0.42
1:B:1470:ARG:HD3	1:B:1470:ARG:HA	1.90	0.42
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.00	0.42
1:C:329:THR:O	1:C:332:GLN:HB2	2.19	0.42
1:C:358:PHE:HD2	1:C:359:VAL:N	2.16	0.42
1:C:749:ILE:HA	1:C:750:PRO:HD3	1.85	0.42
1:C:859:VAL:O	1:C:863:VAL:HG23	2.18	0.42
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.81	0.42
1:C:1365:ALA:O	1:C:1368:ALA:HB3	2.20	0.42
1:C:1444:GLN:O	1:C:1447:VAL:HB	2.19	0.42
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	2.01	0.42
1:D:1713:PHE:HA	1:D:1714:PRO:HD3	1.80	0.42
1:E:350:ASP:HB3	1:E:353:ALA:HB2	2.01	0.42
1:E:628:TYR:CD1	1:E:629:SER:N	2.76	0.42
1:E:648:LEU:HD12	1:E:649:THR:N	2.34	0.42
1:F:11:TYR:HD1	2:L:2030:ILE:HD12	1.83	0.42
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	2.00	0.42
1:F:584:ILE:H	1:F:584:ILE:HG12	1.65	0.42
1:F:1342:ARG:HB3	1:F:1345:SER:HB2	2.01	0.42
2:G:399:TYR:CE2	2:G:403:LEU:HD11	2.55	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.83	0.42
2:G:779:GLY:HA3	2:G:811:MET:HE2	2.00	0.42
2:G:938:MET:HE2	2:G:959:THR:HA	2.01	0.42
2:G:1303:THR:HA	2:G:1304:PRO:HD3	1.92	0.42
2:G:1871:VAL:HG12	2:G:1872:GLU:N	2.33	0.42
2:H:174:GLY:H	2:H:517:GLY:CA	2.29	0.42
2:H:444:LEU:HA	2:H:444:LEU:HD23	1.72	0.42
2:H:932:ALA:O	2:H:935:VAL:HG13	2.19	0.42
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.50	0.42
2:H:1589:PRO:HB2	2:H:1596:PHE:HB3	2.01	0.42
2:H:1938:THR:HG22	2:H:1977:ARG:HA	2.00	0.42
2:I:342:ASN:HB2	2:I:406:ARG:NH2	2.33	0.42
2:I:1179:GLU:HB3	2:I:1193:LYS:HE3	2.02	0.42
2:I:1456:LEU:HD23	2:I:1457:HIS:N	2.34	0.42
2:I:1744:GLU:N	2:I:1799:LEU:HD13	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:68:GLU:HB3	2:J:69:PRO:HD2	2.01	0.42
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.59	0.42
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.19	0.42
2:J:1452:VAL:O	2:J:1454:MET:HG3	2.18	0.42
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.19	0.42
2:K:823:HIS:HB3	2:K:1051:GLU:HG3	2.01	0.42
2:K:894:GLU:O	2:K:897:LYS:HG2	2.19	0.42
2:K:932:ALA:O	2:K:935:VAL:HG13	2.19	0.42
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.89	0.42
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.74	0.42
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.54	0.42
2:K:1587:TYR:O	2:K:1588:ASN:C	2.57	0.42
2:K:1687:GLN:HA	2:K:1688:PRO:HD3	1.76	0.42
2:L:894:GLU:O	2:L:897:LYS:HG2	2.18	0.42
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.99	0.42
2:L:1308:VAL:CG1	2:L:1398:THR:HG23	2.50	0.42
2:L:1462:GLN:O	2:L:1466:VAL:HG23	2.19	0.42
2:L:1589:PRO:CB	2:L:1596:PHE:CG	3.02	0.42
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.84	0.42
1:A:447:PHE:CE1	1:A:451:HIS:NE2	2.87	0.42
1:A:490:VAL:HG12	1:A:490:VAL:O	2.20	0.42
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.38	0.42
1:A:1307:PHE:CA	1:A:1568:ALA:HB2	2.50	0.42
1:A:1472:GLU:O	1:A:1475:GLU:HB2	2.19	0.42
1:A:1695:VAL:HG11	1:A:1713:PHE:CD2	2.55	0.42
1:B:374:LEU:HD11	1:E:389:PRO:HD3	2.01	0.42
1:B:490:VAL:HG12	1:B:490:VAL:O	2.19	0.42
1:B:1673:LEU:HD23	1:B:1673:LEU:HA	1.80	0.42
1:C:335:LEU:HD12	1:C:335:LEU:O	2.20	0.42
1:C:529:GLY:HA3	1:C:611:THR:HG21	2.01	0.42
1:C:776:ARG:NH1	1:D:759:ILE:O	2.50	0.42
1:C:1011:ARG:HD2	1:C:1011:ARG:C	2.40	0.42
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.19	0.42
1:D:349:MET:HG3	1:D:349:MET:O	2.19	0.42
1:D:628:TYR:CD1	1:D:628:TYR:C	2.92	0.42
1:E:829:TYR:OH	1:E:896:PRO:HD2	2.20	0.42
1:E:1525:THR:O	1:E:1526:SER:HB3	2.19	0.42
1:F:329:THR:O	1:F:332:GLN:HB2	2.19	0.42
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.82	0.42
1:F:1467:LEU:HD23	1:F:1467:LEU:HA	1.91	0.42
2:G:73:VAL:HA	2:G:113:PHE:HE2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.85	0.42
2:G:467:ILE:CG2	2:G:468:PRO:HD2	2.45	0.42
2:G:1780:ILE:HG23	2:G:1869:VAL:HG11	2.01	0.42
2:H:762:LEU:HD11	2:H:800:PHE:CB	2.49	0.42
2:H:872:GLY:HA2	2:H:909:ASP:O	2.19	0.42
2:H:1362:PHE:N	2:H:1363:PRO:CD	2.79	0.42
2:H:1626:GLU:O	2:H:1627:ASN:HB2	2.19	0.42
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.20	0.42
2:I:289:ILE:CG2	2:I:490:LEU:HD22	2.50	0.42
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.54	0.42
2:I:489:GLU:HG2	2:I:492:ARG:NH1	2.34	0.42
2:I:571:ASP:HB3	2:I:574:LYS:HB2	2.02	0.42
2:I:785:SER:O	2:I:789:TYR:HB2	2.19	0.42
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.34	0.42
2:I:1728:GLU:C	2:I:1757:ILE:HD11	2.40	0.42
2:J:193:TYR:O	2:J:197:VAL:HG23	2.19	0.42
2:J:336:LEU:HD23	2:J:336:LEU:C	2.40	0.42
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.54	0.42
2:J:910:PHE:O	2:J:1063:ARG:HD3	2.19	0.42
2:J:1832:THR:HG21	2:J:2040:ILE:HD11	2.01	0.42
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.50	0.42
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	2.00	0.42
2:K:73:VAL:HA	2:K:113:PHE:HE2	1.84	0.42
2:K:515:ASP:CB	2:K:541:LEU:HD23	2.48	0.42
2:K:606:ALA:HB2	2:K:811:MET:HG3	2.01	0.42
2:K:914:TRP:CD1	2:K:916:GLY:CA	2.96	0.42
2:K:918:ASN:HB3	2:K:924:VAL:HG21	2.00	0.42
2:L:884:PHE:HE2	2:L:1039:GLU:CA	2.29	0.42
2:L:1146:LEU:O	2:L:1201:GLY:HA2	2.18	0.42
2:L:1175:MET:HA	2:L:1274:ILE:HD11	2.00	0.42
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.18	0.42
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.43	0.42
2:L:2005:PHE:HA	2:L:2010:LEU:CD1	2.32	0.42
1:A:403:TRP:CZ3	1:A:404:ASN:HB2	2.55	0.42
1:A:450:TYR:CD2	1:A:450:TYR:C	2.93	0.42
1:A:454:HIS:CD2	1:A:454:HIS:N	2.87	0.42
1:A:948:HIS:O	1:A:952:TYR:HD2	2.02	0.42
1:B:718:SER:HB3	1:B:721:ASP:HB2	2.01	0.42
1:B:1031:MET:HE2	1:B:1031:MET:HB3	1.82	0.42
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.82	0.42
1:C:31:THR:HG23	2:I:2040:ILE:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:821:LEU:HA	1:D:821:LEU:HD23	1.82	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.02	0.42
1:D:1587:PRO:HA	1:D:1611:SER:OG	2.18	0.42
1:E:1364:THR:CG2	1:E:1366:GLN:HB2	2.49	0.42
1:E:1564:HIS:ND1	1:E:1564:HIS:C	2.73	0.42
1:E:1589:ASN:ND2	1:E:1592:ALA:HB2	2.34	0.42
1:F:902:ASN:C	1:F:904:GLY:H	2.21	0.42
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.19	0.42
2:G:120:HIS:CD2	2:G:137:VAL:CG1	3.02	0.42
2:G:1007:LEU:HD12	2:G:1007:LEU:N	2.30	0.42
2:G:1115:TYR:CZ	2:G:1174:ALA:HB2	2.54	0.42
2:H:208:LEU:HB3	2:H:225:LEU:HD13	2.02	0.42
2:H:460:ILE:HA	2:H:461:PRO:HD3	1.81	0.42
2:H:612:THR:CG2	2:H:629:GLU:O	2.67	0.42
2:H:877:LYS:O	2:H:880:ASP:HB2	2.19	0.42
2:H:917:ARG:NH1	2:H:1057:TYR:OH	2.52	0.42
2:H:938:MET:HE2	2:H:959:THR:HA	2.01	0.42
2:H:1610:MET:HA	2:H:1610:MET:HE3	2.00	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
2:H:1873:ARG:HB3	2:H:1879:SER:HA	2.01	0.42
2:H:1881:TYR:CB	2:H:2004:PRO:HG3	2.50	0.42
3:H:2101:FMN:H1'2	3:H:2101:FMN:H9	1.81	0.42
2:I:342:ASN:HD22	2:I:342:ASN:N	2.17	0.42
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.72	0.42
2:I:603:VAL:HG22	2:I:810:CYS:SG	2.59	0.42
2:I:785:SER:HB3	2:I:1094:HIS:CD2	2.55	0.42
2:I:875:PHE:HE2	2:I:906:LEU:CD2	2.32	0.42
3:I:2101:FMN:H1'2	3:I:2101:FMN:O4'	2.20	0.42
2:J:314:LEU:O	2:J:318:ILE:HG13	2.20	0.42
2:J:376:ARG:HH21	2:K:1339:GLY:HA2	1.83	0.42
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.47	0.42
2:J:604:MET:HG3	2:J:627:HIS:CD2	2.54	0.42
2:J:692:ILE:HD13	2:J:697:PRO:HG2	2.01	0.42
2:J:731:ALA:CB	2:J:739:ILE:HD12	2.50	0.42
2:J:785:SER:CB	2:J:1094:HIS:CD2	3.02	0.42
2:J:879:LEU:HB3	2:J:884:PHE:CE1	2.54	0.42
2:J:928:ASP:CA	2:J:1007:LEU:HD23	2.48	0.42
2:J:1248:GLU:OE1	2:J:1248:GLU:HA	2.19	0.42
2:J:1456:LEU:HD23	2:J:1457:HIS:N	2.35	0.42
2:K:227:ILE:H	2:K:227:ILE:HG13	1.69	0.42
2:K:300:THR:HG22	2:K:301:TRP:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:731:ALA:HB1	2:K:771:CYS:SG	2.59	0.42
2:K:1048:TRP:CD1	2:K:1049:GLN:HG2	2.55	0.42
2:K:1236:LEU:O	2:K:1237:VAL:CG2	2.68	0.42
2:K:1248:GLU:OE2	2:K:1250:ARG:HG2	2.20	0.42
2:K:1335:PHE:HE1	2:K:1629:ILE:HD13	1.84	0.42
2:K:1424:LYS:HA	2:K:1425:PRO:HD3	1.89	0.42
2:K:1767:GLU:HB2	2:K:2016:PRO:CG	2.49	0.42
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.42	0.42
2:K:1983:LYS:HB3	2:K:1984:PRO:HD2	2.02	0.42
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.46	0.42
2:L:856:THR:HG22	2:L:865:ILE:O	2.19	0.42
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.81	0.42
2:L:1325:VAL:HG22	2:L:1335:PHE:CD2	2.54	0.42
2:L:1521:GLU:OE1	2:L:1521:GLU:HA	2.19	0.42
2:L:1588:ASN:HD21	2:L:1590:ILE:HD12	1.83	0.42
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.38	0.42
2:L:1708:LEU:HD22	2:L:1708:LEU:O	2.19	0.42
1:A:694:TYR:HD2	1:A:695:TYR:CD1	2.37	0.42
1:A:859:VAL:O	1:A:863:VAL:HG23	2.19	0.42
1:A:1071:TYR:CE2	1:A:1075:HIS:HB2	2.54	0.42
1:A:1149:LEU:HB2	1:E:1149:LEU:CB	2.45	0.42
1:B:548:VAL:HG22	1:E:569:LEU:HB2	2.01	0.42
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.19	0.42
1:C:14:LEU:HD21	2:I:1844:LEU:HD21	2.01	0.42
1:C:61:LEU:HA	1:C:65:TYR:HB2	2.02	0.42
1:C:653:LYS:HD3	1:C:742:TYR:CE2	2.52	0.42
1:C:655:ALA:O	1:C:680:VAL:HA	2.20	0.42
1:D:612:ILE:HA	1:D:613:PRO:HD3	1.64	0.42
1:D:1159:LEU:HD12	1:D:1327:ALA:HB3	2.01	0.42
1:E:329:THR:O	1:E:332:GLN:HB2	2.19	0.42
1:E:501:ASP:HB2	1:E:505:ASN:HB2	2.00	0.42
1:E:740:LEU:HD12	1:E:781:ILE:HD13	2.00	0.42
1:E:740:LEU:HD23	1:E:740:LEU:HA	1.84	0.42
1:E:1363:MET:CE	1:E:1373:VAL:HG21	2.45	0.42
1:F:350:ASP:HB3	1:F:353:ALA:HB2	2.00	0.42
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	2.01	0.42
1:F:1542:LEU:HD23	1:F:1542:LEU:HA	1.87	0.42
2:G:186:LEU:HD23	2:G:186:LEU:HA	1.82	0.42
2:G:196:PHE:CD2	2:G:266:LYS:CB	3.03	0.42
2:G:712:ARG:O	2:G:738:PRO:HG2	2.18	0.42
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1084:LYS:HE3	2:G:1088:ASP:OD2	2.19	0.42
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.42
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	2.01	0.42
2:G:1380:TYR:CD2	2:G:1380:TYR:N	2.87	0.42
2:H:283:THR:HG23	2:H:470:TYR:O	2.19	0.42
2:H:342:ASN:HD22	2:H:342:ASN:N	2.17	0.42
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.85	0.42
2:H:725:GLN:HE21	2:H:767:ARG:HH11	1.68	0.42
2:H:731:ALA:CB	2:H:739:ILE:HD12	2.50	0.42
2:H:870:THR:HG21	2:H:1064:THR:O	2.19	0.42
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.54	0.42
2:H:1009:ASN:HD22	2:H:1010:ALA:N	2.18	0.42
2:H:1266:HIS:C	2:H:1268:GLU:H	2.22	0.42
2:H:1382:MET:CB	2:H:1633:ARG:HH11	2.32	0.42
2:I:158:LEU:HD12	2:I:558:LEU:HD23	2.00	0.42
2:I:189:ILE:HD12	2:I:256:VAL:HG13	2.02	0.42
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.83	0.42
2:J:137:VAL:O	2:J:141:TYR:HD1	2.03	0.42
2:J:752:HIS:CD2	2:J:866:HIS:ND1	2.88	0.42
2:J:785:SER:HB3	2:J:1094:HIS:CD2	2.55	0.42
2:J:1723:ASP:OD1	2:J:1735:ILE:HG13	2.19	0.42
2:K:657:GLY:HA3	2:K:688:GLU:HG2	2.02	0.42
2:K:741:LEU:O	2:K:741:LEU:CG	2.68	0.42
2:K:1130:ILE:HD12	2:K:1133:LEU:HD22	2.01	0.42
2:K:1269:ALA:HB1	2:K:1271:TYR:CE2	2.55	0.42
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.19	0.42
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	2.01	0.42
3:K:2101:FMN:H1'2	3:K:2101:FMN:O4'	2.20	0.42
2:L:300:THR:O	2:L:304:PHE:HB2	2.19	0.42
2:L:1009:ASN:HD22	2:L:1010:ALA:N	2.18	0.42
2:L:1207:THR:O	2:L:1215:THR:HA	2.20	0.42
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.85	0.42
2:L:1692:TYR:O	2:L:1833:PHE:HA	2.19	0.42
2:L:1851:MET:SD	2:L:1856:LEU:HA	2.59	0.42
2:L:1938:THR:HG22	2:L:1977:ARG:HA	2.01	0.42
1:A:755:GLU:C	1:A:757:ASP:N	2.73	0.42
1:A:1148:LEU:HD23	1:A:1148:LEU:HA	1.74	0.42
1:A:1359:VAL:HG12	1:A:1360:GLN:N	2.34	0.42
1:B:511:VAL:HG12	1:B:512:PRO:HD2	2.02	0.42
1:B:552:ILE:HD11	1:E:566:PHE:HE1	1.84	0.42
1:B:1011:ARG:HD2	1:B:1011:ARG:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1343:PRO:HA	1:B:1526:SER:HA	2.00	0.42
1:B:1461:PHE:HE2	1:D:1411:PHE:CE1	2.38	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	2.02	0.42
1:C:59:ARG:NH1	2:I:1925:MET:HE2	2.34	0.42
1:C:498:THR:HG21	1:C:858:LEU:HA	2.01	0.42
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.50	0.42
1:C:959:PRO:HD3	2:I:974:GLU:HG2	2.01	0.42
1:C:1307:PHE:CA	1:C:1568:ALA:HB2	2.50	0.42
1:D:371:GLN:O	1:D:374:LEU:HB3	2.19	0.42
1:D:454:HIS:CD2	1:D:454:HIS:N	2.88	0.42
1:D:744:VAL:HG12	1:D:746:PHE:CD1	2.55	0.42
1:D:1164:ILE:HD13	1:D:1355:GLN:HG3	2.01	0.42
1:E:343:ILE:O	1:E:347:LEU:HG	2.20	0.42
1:E:859:VAL:O	1:E:863:VAL:HG23	2.19	0.42
1:E:1082:GLU:HA	1:E:1083:PRO:HD3	1.85	0.42
1:F:458:GLU:CD	1:F:458:GLU:H	2.22	0.42
1:F:740:LEU:HD12	1:F:781:ILE:HD13	2.02	0.42
1:F:983:GLN:O	1:F:987:MET:HG3	2.20	0.42
1:F:1581:LEU:HD13	1:F:1638:HIS:HA	2.01	0.42
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.49	0.42
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.01	0.42
2:G:879:LEU:HB3	2:G:884:PHE:CE1	2.55	0.42
2:G:894:GLU:O	2:G:897:LYS:HG2	2.20	0.42
2:G:1690:THR:HG22	2:G:1691:ALA:N	2.33	0.42
2:G:1804:GLN:O	2:G:1861:PHE:HD1	2.02	0.42
2:H:356:LEU:O	2:H:387:ARG:HA	2.20	0.42
2:H:1290:TYR:CD2	2:H:1299:VAL:HG12	2.52	0.42
2:H:1371:LEU:HG	2:H:1600:ALA:HB2	2.00	0.42
2:I:608:MET:HA	3:I:2101:FMN:N5	2.34	0.42
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.20	0.42
2:I:1036:GLU:H	2:I:1036:GLU:HG3	1.46	0.42
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.83	0.42
2:I:1308:VAL:CG1	2:I:1398:THR:HG23	2.49	0.42
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.84	0.42
2:I:1471:GLU:H	2:I:1471:GLU:HG3	1.44	0.42
2:I:1851:MET:HB3	2:I:1851:MET:HE2	1.96	0.42
2:I:1873:ARG:HB3	2:I:1879:SER:HA	2.01	0.42
2:J:26:LEU:HD22	2:J:53:LEU:HD21	2.00	0.42
2:J:129:ILE:HG21	2:J:132:LYS:CG	2.50	0.42
2:J:780:SER:HA	3:J:2101:FMN:O5'	2.19	0.42
2:J:829:LYS:O	2:J:832:ILE:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1220:ARG:HB3	2:J:1228:LEU:HB2	2.01	0.42
2:J:1335:PHE:N	2:J:1335:PHE:HD1	2.17	0.42
2:J:1804:GLN:O	2:J:1861:PHE:HD1	2.03	0.42
2:J:1944:ASN:HA	2:J:1993:PHE:HD1	1.83	0.42
2:K:609:THR:CB	2:K:610:PRO:HD3	2.50	0.42
2:K:641:MET:CE	2:K:676:LEU:HD12	2.49	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.34	0.42
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.49	0.42
2:K:747:ARG:H	2:K:747:ARG:HG3	1.59	0.42
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.82	0.42
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.19	0.42
2:K:962:PHE:O	2:K:965:ARG:HB3	2.20	0.42
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.55	0.42
2:K:1942:VAL:O	2:K:1946:LEU:HG	2.20	0.42
2:L:705:TYR:HA	2:L:709:LEU:CD2	2.49	0.42
2:L:922:GLU:HA	2:L:923:PRO:HD3	1.89	0.42
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.49	0.42
2:L:1248:GLU:OE2	2:L:1250:ARG:HG2	2.20	0.42
2:L:1266:HIS:C	2:L:1268:GLU:H	2.23	0.42
2:L:1351:VAL:HG23	2:L:1584:SER:HA	2.01	0.42
2:L:1804:GLN:O	2:L:1861:PHE:HD1	2.03	0.42
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.82	0.42
2:L:1873:ARG:HB3	2:L:1879:SER:HA	2.00	0.42
1:A:959:PRO:HB3	2:G:972:SER:HA	2.00	0.42
1:A:1015:GLU:HA	1:A:1561:LEU:HD12	2.01	0.42
1:A:1213:VAL:HG22	1:A:1300:ARG:HE	1.84	0.42
1:A:1638:HIS:CG	1:A:1639:PRO:HD2	2.55	0.42
1:B:400:ASP:C	1:B:400:ASP:OD1	2.58	0.42
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.54	0.42
1:B:418:ILE:HA	1:B:462:THR:HB	2.02	0.42
1:B:432:GLN:O	1:B:436:ILE:HG13	2.19	0.42
1:B:828:TRP:NE1	1:B:838:THR:HA	2.30	0.42
1:B:1232:LEU:HD11	1:D:1232:LEU:HD21	2.02	0.42
1:B:1402:THR:HG22	1:D:1696:PHE:O	2.20	0.42
1:B:1696:PHE:O	1:D:1402:THR:HG22	2.20	0.42
1:C:350:ASP:HB3	1:C:353:ALA:HB2	2.00	0.42
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.19	0.42
1:D:329:THR:O	1:D:332:GLN:HB2	2.20	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.19	0.42
1:D:418:ILE:HA	1:D:462:THR:HB	2.01	0.42
1:D:527:ALA:CB	1:D:637:LEU:HD13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:948:HIS:O	1:D:952:TYR:HD2	2.02	0.42
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.59	0.42
1:E:405:TRP:CE3	1:E:405:TRP:HA	2.55	0.42
1:E:718:SER:HB3	1:E:721:ASP:HB2	2.01	0.42
1:E:997:THR:HG22	1:E:1361:VAL:HG22	2.02	0.42
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.19	0.42
1:E:1591:ASN:C	1:E:1593:ASP:H	2.23	0.42
1:E:1601:GLN:HB2	1:E:1602:PHE:CD2	2.54	0.42
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.84	0.42
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.20	0.42
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.54	0.42
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.20	0.42
2:G:253:ILE:HB	2:G:287:GLN:NE2	2.35	0.42
2:G:350:MET:HE3	2:G:435:ILE:HD12	2.01	0.42
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.85	0.42
2:G:540:ILE:CD1	2:G:557:GLU:HB3	2.50	0.42
2:G:595:SER:HB2	2:G:600:VAL:O	2.20	0.42
2:G:818:THR:HG22	2:G:829:LYS:CB	2.50	0.42
2:G:876:TRP:C	2:G:876:TRP:HD1	2.22	0.42
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.69	0.42
2:G:1199:THR:HG22	2:G:1200:ARG:N	2.35	0.42
2:G:1205:GLU:O	2:G:1217:ILE:HA	2.19	0.42
2:G:1375:HIS:CE1	2:G:1610:MET:CG	3.03	0.42
2:G:1464:LEU:C	2:G:1464:LEU:HD13	2.40	0.42
2:G:1947:LYS:HG3	2:G:1948:MET:HE3	2.01	0.42
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.33	0.42
2:H:116:GLY:O	2:H:561:ARG:NH1	2.52	0.42
2:H:227:ILE:H	2:H:227:ILE:HG13	1.65	0.42
2:H:580:LEU:O	2:H:581:VAL:HG23	2.20	0.42
2:H:604:MET:HG3	2:H:627:HIS:HD2	1.84	0.42
2:H:663:ILE:HD12	2:H:663:ILE:N	2.35	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:HG2	2.19	0.42
2:H:1631:ARG:NH2	2:H:1688:PRO:HA	2.34	0.42
2:H:1944:ASN:HA	2:H:1993:PHE:HD1	1.84	0.42
2:I:80:ILE:HG12	2:I:105:ILE:HG22	2.01	0.42
2:I:211:LEU:HB3	2:I:316:PHE:CZ	2.55	0.42
2:I:350:MET:SD	2:I:392:THR:CG2	3.08	0.42
2:I:740:ILE:HA	2:I:775:VAL:HB	2.01	0.42
2:I:771:CYS:HB3	2:I:774:ILE:CD1	2.45	0.42
2:I:1153:ASN:HD22	2:I:1153:ASN:HA	1.57	0.42
2:I:1650:THR:O	2:I:1669:ALA:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1672:LYS:HG2	2:I:1672:LYS:O	2.20	0.42
2:I:1728:GLU:C	2:I:1757:ILE:CD1	2.88	0.42
2:I:1730:TYR:HA	2:I:1761:TYR:HE1	1.83	0.42
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.49	0.42
2:J:258:LEU:CD1	2:J:291:VAL:HG13	2.50	0.42
2:J:276:LEU:HD11	2:J:296:ALA:HA	2.00	0.42
2:J:1330:ASN:HD22	2:J:1618:SER:HB2	1.84	0.42
2:J:1621:GLU:HG2	2:J:1632:VAL:HG11	2.01	0.42
2:K:196:PHE:O	2:K:262:MET:HE1	2.20	0.42
2:K:369:ASN:HB3	2:K:377:HIS:ND1	2.35	0.42
2:K:460:ILE:HA	2:K:461:PRO:HD3	1.82	0.42
2:K:485:ASP:CB	2:K:488:PRO:CD	2.91	0.42
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.55	0.42
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.42
2:K:1515:LEU:HB3	2:K:1525:VAL:HG21	2.02	0.42
2:K:1607:THR:HG22	2:K:1608:HIS:N	2.33	0.42
2:L:197:VAL:O	2:L:200:LEU:HD23	2.20	0.42
2:L:595:SER:HB2	2:L:600:VAL:O	2.20	0.42
2:L:741:LEU:O	2:L:741:LEU:CG	2.67	0.42
2:L:875:PHE:HE2	2:L:906:LEU:CD2	2.32	0.42
2:L:917:ARG:NH1	2:L:1057:TYR:OH	2.53	0.42
2:L:1442:TYR:HA	2:L:1445:THR:CG2	2.45	0.42
1:A:631:LYS:O	1:A:635:ILE:HG13	2.19	0.42
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.13	0.42
1:B:555:GLN:HG2	1:B:557:ARG:NH2	2.35	0.42
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	2.02	0.42
1:C:689:ARG:NH1	1:C:1339:GLU:OE2	2.53	0.42
1:C:900:ASP:C	1:C:901:LEU:HD23	2.39	0.42
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.43	0.42
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.53	0.42
1:C:1338:GLY:H	1:C:1340:MET:HG3	1.84	0.42
1:D:23:ALA:HA	2:J:2007:SER:O	2.19	0.42
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.01	0.42
1:D:47:ILE:HB	2:J:1694:PHE:CE1	2.54	0.42
1:D:511:VAL:HG12	1:D:512:PRO:HD2	2.02	0.42
1:D:612:ILE:HG23	1:D:613:PRO:CD	2.49	0.42
1:D:689:ARG:CZ	1:D:1339:GLU:CG	2.90	0.42
1:D:749:ILE:CD1	1:D:769:ILE:HD12	2.50	0.42
1:D:799:LEU:HD12	1:D:821:LEU:HB3	2.01	0.42
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.15	0.42
1:E:874:GLN:H	1:E:874:GLN:HG2	1.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1363:MET:HE3	1:E:1368:ALA:CA	2.50	0.42
1:F:754:ARG:HH21	1:F:762:LYS:HD3	1.84	0.42
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.19	0.42
2:G:411:PRO:HD2	2:G:414:LEU:HD11	2.02	0.42
2:G:468:PRO:HB3	2:G:477:ASP:OD2	2.19	0.42
2:G:870:THR:HG21	2:G:1064:THR:O	2.20	0.42
2:G:883:ILE:HG22	2:G:884:PHE:N	2.35	0.42
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.49	0.42
2:G:1847:LEU:HD12	2:G:1847:LEU:N	2.34	0.42
2:H:347:PRO:HA	2:H:432:PHE:CE1	2.54	0.42
2:H:604:MET:HG3	2:H:627:HIS:CD2	2.54	0.42
2:H:618:VAL:HG13	2:H:619:ALA:N	2.34	0.42
2:H:621:THR:OG1	2:H:1083:ILE:HD13	2.19	0.42
2:H:785:SER:O	2:H:789:TYR:HB2	2.19	0.42
2:H:871:ARG:HB2	2:H:909:ASP:HB2	2.02	0.42
2:H:1028:VAL:HG22	2:H:1030:PHE:CE2	2.55	0.42
2:H:1207:THR:O	2:H:1215:THR:HA	2.19	0.42
2:H:1380:TYR:CD2	2:H:1380:TYR:N	2.87	0.42
2:H:1610:MET:HA	2:H:1610:MET:HE2	1.99	0.42
2:H:1947:LYS:HG3	2:H:1948:MET:HE2	2.02	0.42
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.83	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.20	0.42
2:I:608:MET:HE1	2:I:817:MET:HG2	2.02	0.42
2:I:665:VAL:C	2:I:667:PRO:HD3	2.40	0.42
2:I:692:ILE:HD13	2:I:697:PRO:HG2	2.02	0.42
2:I:1405:ILE:HG22	2:I:1445:THR:OG1	2.19	0.42
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.07	0.42
2:J:300:THR:O	2:J:304:PHE:HB2	2.20	0.42
2:J:834:ASP:O	2:J:836:PRO:HD3	2.20	0.42
2:J:988:GLU:HA	2:J:989:PRO:HD3	1.77	0.42
2:J:1636:HIS:O	2:J:1681:GLY:HA3	2.19	0.42
2:J:1953:ILE:O	2:J:1957:MET:HG2	2.20	0.42
2:K:208:LEU:HB3	2:K:225:LEU:HD13	2.02	0.42
2:K:349:PRO:O	2:K:392:THR:HG22	2.20	0.42
2:K:652:ILE:HG23	2:K:656:ARG:HB2	2.01	0.42
2:K:737:PHE:HA	2:K:738:PRO:HD3	1.80	0.42
2:K:818:THR:HG22	2:K:829:LYS:CB	2.49	0.42
2:K:827:GLN:C	2:K:1061:VAL:HG21	2.41	0.42
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.54	0.42
2:K:930:THR:HA	2:K:1007:LEU:HA	2.02	0.42
2:K:1303:THR:HA	2:K:1304:PRO:HD3	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1361:ILE:HD11	2:K:1433:PHE:CD2	2.54	0.42
2:K:1427:MET:HG3	2:K:1427:MET:O	2.20	0.42
2:K:1658:MET:HE2	2:K:1826:LEU:HD23	2.01	0.42
2:K:1933:LEU:O	2:K:1989:LEU:HD11	2.20	0.42
2:L:68:GLU:HB3	2:L:69:PRO:HD2	2.01	0.42
2:L:114:MET:HG2	2:L:122:ILE:HG21	2.02	0.42
2:L:314:LEU:O	2:L:318:ILE:HG13	2.20	0.42
2:L:609:THR:CB	2:L:610:PRO:HD3	2.49	0.42
2:L:1199:THR:HB	2:L:1202:MET:HB3	2.01	0.42
2:L:1690:THR:HG22	2:L:1691:ALA:N	2.34	0.42
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.85	0.42
1:A:726:VAL:HG21	1:A:780:ALA:CB	2.50	0.42
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.48	0.42
1:A:1176:PRO:O	1:A:1180:ILE:HG12	2.20	0.42
1:A:1386:THR:HG22	1:A:1387:ASP:H	1.84	0.42
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.35	0.42
1:B:776:ARG:NH1	1:E:759:ILE:O	2.52	0.42
1:B:1705:GLN:HE21	1:B:1709:GLY:HA2	1.84	0.42
1:C:422:LEU:HB3	1:C:429:ILE:CD1	2.49	0.42
1:C:1020:PHE:CE2	1:C:1028:MET:HG3	2.54	0.42
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.20	0.42
1:D:689:ARG:CD	1:D:1339:GLU:CD	2.79	0.42
1:D:1564:HIS:ND1	1:D:1564:HIS:C	2.73	0.42
1:D:1640:LYS:CG	1:D:1641:TYR:N	2.82	0.42
1:E:64:LYS:HE3	2:K:1923:ALA:CB	2.50	0.42
1:E:855:ALA:HA	1:E:919:ARG:NH2	2.25	0.42
1:E:1509:THR:OG1	1:E:1510:TRP:CD1	2.72	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	2.02	0.42
2:G:189:ILE:HD12	2:G:256:VAL:HG13	2.01	0.42
2:G:805:MET:HB3	2:G:805:MET:HE2	1.84	0.42
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.84	0.42
2:H:616:ASP:N	2:H:616:ASP:OD1	2.51	0.42
2:H:734:ASN:ND2	2:H:734:ASN:N	2.68	0.42
2:H:942:MET:O	2:H:951:ILE:HG13	2.20	0.42
2:H:1245:THR:HG23	2:H:1260:THR:OG1	2.19	0.42
2:H:1290:TYR:CG	2:H:1299:VAL:CG1	2.89	0.42
2:I:92:GLU:C	2:I:94:ALA:H	2.22	0.42
2:I:106:LEU:HD11	2:I:143:GLY:O	2.19	0.42
2:I:321:ARG:HE	2:I:450:HIS:HB3	1.84	0.42
2:I:349:PRO:O	2:I:392:THR:HG22	2.20	0.42
2:I:699:ILE:H	2:I:699:ILE:CD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:703:ASN:O	2:I:707:GLN:HG3	2.19	0.42
2:I:1022:ARG:HG2	2:I:1022:ARG:H	1.70	0.42
2:I:1130:ILE:HD12	2:I:1133:LEU:HD22	2.01	0.42
2:I:1700:GLN:O	2:I:1700:GLN:HG2	2.19	0.42
2:J:159:PHE:CD2	2:J:169:ILE:HD12	2.54	0.42
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.42
2:J:580:LEU:O	2:J:581:VAL:HG23	2.20	0.42
2:J:779:GLY:HA3	2:J:811:MET:HE2	2.02	0.42
2:J:1154:LEU:HD13	2:J:1198:PRO:CB	2.50	0.42
2:J:1236:LEU:O	2:J:1237:VAL:HG23	2.19	0.42
2:J:1269:ALA:HB1	2:J:1271:TYR:CE2	2.55	0.42
2:J:1588:ASN:HD21	2:J:1590:ILE:HD12	1.84	0.42
2:J:1904:VAL:HG13	2:J:1915:LEU:HG	2.02	0.42
2:J:1960:MET:SD	2:J:1965:VAL:HG13	2.60	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
2:K:727:VAL:HA	2:K:730:ILE:CG1	2.50	0.42
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.35	0.42
2:K:1304:PRO:O	2:K:1307:ALA:CB	2.67	0.42
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.83	0.42
2:K:1904:VAL:HG13	2:K:1915:LEU:HG	2.02	0.42
2:L:126:VAL:O	2:L:133:LYS:HE3	2.20	0.42
2:L:306:THR:O	2:L:310:ARG:HG3	2.19	0.42
2:L:462:ALA:HB3	2:L:481:LEU:O	2.19	0.42
2:L:489:GLU:HG2	2:L:492:ARG:CZ	2.50	0.42
2:L:876:TRP:C	2:L:876:TRP:HD1	2.22	0.42
2:L:1316:VAL:HG13	2:L:1348:PHE:HE2	1.85	0.42
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.54	0.42
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.22	0.42
2:L:1863:ARG:O	2:L:1867:MET:HG3	2.19	0.42
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.42
1:A:371:GLN:O	1:A:374:LEU:HB3	2.20	0.42
1:A:1564:HIS:ND1	1:A:1564:HIS:C	2.73	0.42
1:A:1591:ASN:C	1:A:1593:ASP:H	2.24	0.42
1:A:1703:VAL:HG23	1:A:1713:PHE:CD1	2.55	0.42
1:B:1586:VAL:HA	1:B:1587:PRO:HD3	1.82	0.42
1:B:1670:HIS:ND1	2:H:1009:ASN:ND2	2.68	0.42
1:C:22:PHE:O	2:I:2006:HIS:HA	2.20	0.42
1:C:562:SER:OG	1:D:551:LEU:HD21	2.20	0.42
1:C:701:ARG:NH1	1:C:1610:ARG:NH2	2.68	0.42
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.54	0.42
1:C:1321:MET:HE1	1:F:1251:GLN:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.20	0.42
1:D:1581:LEU:HD13	1:D:1638:HIS:HA	2.02	0.42
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.47	0.42
1:E:1232:LEU:HD23	1:E:1232:LEU:HA	1.83	0.42
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.19	0.42
1:E:1640:LYS:CG	1:E:1641:TYR:N	2.83	0.42
1:F:88:ILE:HG21	2:L:1821:MET:CE	2.48	0.42
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.42
1:F:500:ILE:HG22	1:F:929:ARG:NH1	2.34	0.42
1:F:744:VAL:HG13	1:F:746:PHE:CE1	2.54	0.42
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.50	0.42
1:F:1273:ILE:O	1:F:1273:ILE:HG13	2.19	0.42
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.72	0.42
1:F:1329:GLU:O	1:F:1333:ARG:HG3	2.20	0.42
1:F:1601:GLN:HB2	1:F:1602:PHE:CD2	2.55	0.42
2:G:320:LEU:O	2:G:324:GLN:HG3	2.20	0.42
2:G:609:THR:HG23	3:G:2101:FMN:O4	2.20	0.42
2:G:641:MET:CE	2:G:676:LEU:HD12	2.50	0.42
2:G:691:THR:OG1	2:G:715:SER:HB3	2.20	0.42
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.42
2:G:1338:ARG:HH21	2:I:327:PRO:CD	2.24	0.42
2:G:1588:ASN:HA	2:G:1589:PRO:HD3	1.88	0.42
2:H:129:ILE:HG21	2:H:132:LYS:CG	2.50	0.42
2:H:258:LEU:HD12	2:H:291:VAL:HG13	2.01	0.42
2:H:747:ARG:HD2	2:H:780:SER:OG	2.20	0.42
2:H:1183:GLN:HB2	2:H:1278:MET:CE	2.50	0.42
2:H:1301:PHE:HD1	2:H:1364:ARG:HG2	1.85	0.42
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.84	0.42
2:H:1953:ILE:O	2:H:1957:MET:HG2	2.19	0.42
2:I:353:ILE:O	2:I:353:ILE:HG22	2.20	0.42
2:I:356:LEU:O	2:I:387:ARG:HA	2.20	0.42
2:I:507:PHE:HA	2:I:508:PRO:HD3	1.90	0.42
2:I:1938:THR:HG22	2:I:1977:ARG:HA	2.01	0.42
2:I:1944:ASN:HA	2:I:1993:PHE:HD1	1.82	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.72	0.42
2:J:1863:ARG:HB2	2:J:2017:PHE:CE1	2.55	0.42
2:K:211:LEU:HD21	2:K:313:GLU:HG3	2.02	0.42
2:K:376:ARG:HA	2:K:443:TYR:OH	2.19	0.42
2:K:580:LEU:O	2:K:581:VAL:HG23	2.19	0.42
2:K:1176:PHE:CZ	2:K:1192:LEU:HD13	2.55	0.42
2:K:1336:VAL:HG12	2:K:1337:ASP:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1349:ALA:HB2	2:K:1427:MET:SD	2.60	0.42
2:K:1350:ILE:HD13	2:K:1350:ILE:HA	1.71	0.42
2:L:36:LEU:HA	2:L:36:LEU:HD23	1.73	0.42
2:L:281:GLY:HA3	2:L:470:TYR:CE1	2.52	0.42
2:L:356:LEU:O	2:L:387:ARG:HA	2.20	0.42
1:A:1210:TYR:HA	1:A:1213:VAL:O	2.20	0.41
1:A:1586:VAL:HA	1:A:1587:PRO:HD3	1.85	0.41
1:B:422:LEU:HB3	1:B:429:ILE:CD1	2.48	0.41
1:B:557:ARG:NH1	1:E:558:LEU:HD23	2.35	0.41
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.19	0.41
1:B:902:ASN:C	1:B:904:GLY:H	2.23	0.41
1:B:1082:GLU:HA	1:B:1083:PRO:HD3	1.88	0.41
1:C:371:GLN:O	1:C:374:LEU:HB3	2.20	0.41
1:C:964:LYS:H	1:C:964:LYS:HG3	1.70	0.41
1:C:1220:ASN:HB3	1:C:1273:ILE:HG22	2.02	0.41
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.20	0.41
1:C:1294:ILE:HD11	1:C:1302:CYS:HB3	2.02	0.41
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.20	0.41
1:D:14:LEU:HD23	2:J:2035:LEU:HD13	2.02	0.41
1:D:1419:LYS:HA	1:D:1422:ARG:HB2	2.02	0.41
1:D:1427:LEU:HD13	1:D:1427:LEU:C	2.41	0.41
1:E:28:TRP:CE2	1:E:53:LEU:HD22	2.54	0.41
1:E:673:LEU:HD21	1:E:884:MET:CE	2.50	0.41
1:F:740:LEU:HD23	1:F:740:LEU:HA	1.84	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.74	0.41
1:F:1564:HIS:C	1:F:1564:HIS:ND1	2.73	0.41
2:G:197:VAL:CG2	2:G:263:ILE:HD11	2.48	0.41
2:G:612:THR:HG21	2:G:629:GLU:O	2.20	0.41
2:G:1015:HIS:CD2	2:G:1019:LEU:HD11	2.55	0.41
2:G:1097:PHE:HD2	2:G:1100:ARG:NH1	2.16	0.41
2:G:1833:PHE:CE1	2:G:2039:TYR:HB2	2.55	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:HD1	1.85	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.86	0.41
2:H:690:LEU:HD22	2:H:691:THR:H	1.85	0.41
2:H:858:LEU:HD23	2:H:858:LEU:HA	1.89	0.41
2:H:875:PHE:CZ	2:H:879:LEU:HD11	2.55	0.41
2:H:1266:HIS:HE1	2:H:1275:ARG:CD	2.20	0.41
2:H:1863:ARG:HB2	2:H:2017:PHE:CE1	2.55	0.41
2:I:176:GLN:HB3	2:I:435:ILE:HG12	2.02	0.41
2:I:197:VAL:CG2	2:I:263:ILE:HD11	2.50	0.41
2:I:258:LEU:CD1	2:I:291:VAL:HG13	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:534:GLY:HA2	2:I:572:TRP:CZ3	2.55	0.41
2:I:1741:ASN:ND2	2:I:1798:GLY:HA3	2.35	0.41
2:I:1762:MET:HG2	2:I:1779:LYS:NZ	2.35	0.41
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	2.01	0.41
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.85	0.41
2:J:192:THR:C	2:J:194:PRO:HD3	2.40	0.41
2:J:353:ILE:O	2:J:353:ILE:HG22	2.20	0.41
2:J:357:THR:HG22	2:J:359:SER:H	1.85	0.41
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.84	0.41
2:J:460:ILE:HA	2:J:461:PRO:HD3	1.80	0.41
2:J:705:TYR:HA	2:J:709:LEU:CD2	2.49	0.41
2:J:858:LEU:HD23	2:J:864:PRO:HA	2.02	0.41
2:J:1587:TYR:O	2:J:1588:ASN:C	2.58	0.41
2:J:1704:MET:SD	2:J:1810:LEU:HD23	2.60	0.41
2:K:786:GLU:H	2:K:786:GLU:CD	2.23	0.41
2:K:825:SER:HB2	2:K:1053:ILE:HG13	2.02	0.41
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	2.01	0.41
2:K:1183:GLN:CB	2:K:1278:MET:HE3	2.50	0.41
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.20	0.41
2:K:1588:ASN:HD21	2:K:1590:ILE:HD12	1.85	0.41
2:K:1881:TYR:OH	2:K:2009:PHE:HE1	2.03	0.41
2:K:2005:PHE:HA	2:K:2010:LEU:CD1	2.34	0.41
2:L:250:PHE:CD2	2:L:287:GLN:HG3	2.54	0.41
2:L:251:PRO:HG3	2:L:316:PHE:N	2.35	0.41
2:L:649:GLU:HG3	2:L:650:LYS:N	2.34	0.41
2:L:727:VAL:HA	2:L:730:ILE:HG12	2.01	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.59	0.41
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.49	0.41
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.20	0.41
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.54	0.41
2:L:1942:VAL:O	2:L:1946:LEU:HG	2.21	0.41
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	2.02	0.41
1:A:89:TYR:CE1	2:G:1821:MET:HG2	2.54	0.41
1:A:335:LEU:HD12	1:A:335:LEU:O	2.20	0.41
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.55	0.41
1:A:427:ARG:O	1:A:430:VAL:HB	2.20	0.41
1:A:655:ALA:O	1:A:680:VAL:HA	2.20	0.41
1:A:667:ALA:O	1:A:670:LEU:HB3	2.20	0.41
1:A:715:ASN:HD22	1:A:715:ASN:C	2.24	0.41
1:A:850:THR:C	1:A:852:LEU:H	2.22	0.41
1:A:1207:TYR:CE1	1:A:1686:PRO:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1359:VAL:CG1	1:A:1360:GLN:N	2.83	0.41
1:B:1414:PRO:HD2	1:D:1473:HIS:HD2	1.86	0.41
1:B:1525:THR:O	1:B:1526:SER:HB3	2.20	0.41
1:C:358:PHE:CD2	1:C:359:VAL:N	2.88	0.41
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.35	0.41
1:D:400:ASP:C	1:D:400:ASP:OD1	2.59	0.41
1:D:754:ARG:HH21	1:D:762:LYS:HD3	1.85	0.41
1:D:1525:THR:O	1:D:1526:SER:HB3	2.19	0.41
1:E:635:ILE:HG13	1:E:635:ILE:H	1.58	0.41
1:E:872:SER:OG	1:E:874:GLN:HG3	2.19	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.20	0.41
1:F:427:ARG:HD2	1:F:490:VAL:HG12	2.02	0.41
1:F:577:LEU:HD23	1:F:584:ILE:HG21	2.02	0.41
1:F:683:THR:HB	1:F:714:PHE:CB	2.46	0.41
1:F:728:TYR:CE2	1:F:736:LEU:HD13	2.56	0.41
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.85	0.41
2:G:1361:ILE:HD11	2:G:1433:PHE:CD2	2.55	0.41
2:G:1578:GLU:O	2:G:1582:ARG:HD2	2.20	0.41
2:G:1616:VAL:O	2:G:1620:VAL:HG23	2.20	0.41
2:H:659:THR:HA	2:H:689:GLY:O	2.20	0.41
2:H:1179:GLU:HB3	2:H:1193:LYS:HE3	2.02	0.41
2:H:1220:ARG:HB3	2:H:1228:LEU:HB2	2.01	0.41
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	2.01	0.41
2:H:1692:TYR:O	2:H:1833:PHE:HA	2.19	0.41
2:H:1700:GLN:HG2	2:H:1700:GLN:O	2.20	0.41
2:H:1709:TYR:C	2:H:1709:TYR:CD2	2.93	0.41
2:H:1881:TYR:CG	2:H:2004:PRO:HG3	2.54	0.41
2:I:141:TYR:HA	2:I:144:ARG:HB3	2.01	0.41
2:I:381:SER:HB2	2:I:440:HIS:HB2	2.03	0.41
2:I:652:ILE:CG2	2:I:656:ARG:HB2	2.50	0.41
2:I:725:GLN:HG2	2:I:764:MET:CE	2.50	0.41
2:I:785:SER:CB	2:I:1094:HIS:CD2	3.03	0.41
2:I:917:ARG:NH1	2:I:1057:TYR:OH	2.53	0.41
2:I:1220:ARG:HA	2:I:1229:VAL:O	2.20	0.41
2:I:1335:PHE:N	2:I:1335:PHE:HD1	2.18	0.41
2:I:1406:ASN:HB3	2:I:1411:LYS:HG3	2.01	0.41
2:I:1430:THR:HG22	2:I:1431:SER:N	2.35	0.41
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.20	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	2.01	0.41
2:J:1081:GLU:H	2:J:1081:GLU:HG3	1.67	0.41
2:J:1291:ARG:HD2	2:J:1297:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1873:ARG:HB3	2:J:1879:SER:HA	2.02	0.41
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.44	0.41
2:K:725:GLN:HE21	2:K:767:ARG:HH11	1.67	0.41
2:K:749:GLY:HA3	3:K:2101:FMN:HM81	2.02	0.41
2:K:1093:ASP:O	2:K:1097:PHE:HB2	2.20	0.41
2:L:159:PHE:CZ	2:L:275:LEU:HD21	2.54	0.41
2:L:612:THR:CG2	2:L:629:GLU:O	2.68	0.41
2:L:1335:PHE:CD1	2:L:1335:PHE:N	2.87	0.41
2:L:1793:TYR:CD2	2:L:1805:PHE:CZ	3.08	0.41
2:L:1863:ARG:HB2	2:L:2017:PHE:CE1	2.55	0.41
2:L:1947:LYS:HG3	2:L:1948:MET:HE2	2.02	0.41
1:A:413:MET:O	1:A:416:ASP:HB2	2.20	0.41
1:A:418:ILE:HA	1:A:462:THR:HB	2.02	0.41
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.65	0.41
1:A:1269:SER:O	1:E:1386:THR:HB	2.20	0.41
1:A:1581:LEU:HD13	1:A:1638:HIS:HA	2.03	0.41
1:B:329:THR:O	1:B:332:GLN:HB2	2.20	0.41
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.54	0.41
1:B:960:ARG:NH1	2:H:968:GLU:OE1	2.47	0.41
1:C:821:LEU:HD23	1:C:821:LEU:HA	1.90	0.41
1:C:921:GLU:HG3	1:C:922:ILE:N	2.35	0.41
1:C:1001:GLU:C	1:C:1002:ILE:HD12	2.40	0.41
1:C:1288:ASP:O	1:C:1291:TYR:HB3	2.20	0.41
1:D:14:LEU:HD13	1:D:18:LEU:HG	2.03	0.41
1:D:408:GLN:HE22	1:D:1609:SER:N	2.18	0.41
1:D:850:THR:C	1:D:852:LEU:H	2.24	0.41
1:D:1038:HIS:CE1	1:D:1042:LEU:HG	2.54	0.41
1:E:874:GLN:HE21	1:E:874:GLN:HB3	1.66	0.41
1:E:1351:PHE:HD1	1:E:1352:MET:N	2.19	0.41
1:F:43:ARG:NH1	2:L:1687:GLN:HE21	2.18	0.41
1:F:1055:THR:C	1:F:1057:GLU:H	2.24	0.41
1:F:1501:ALA:O	1:F:1504:ARG:HB2	2.19	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.28	0.41
2:G:332:ALA:HB3	2:G:335:THR:OG1	2.21	0.41
2:G:350:MET:HG3	2:G:435:ILE:CB	2.50	0.41
2:G:737:PHE:O	2:G:773:ASN:HB3	2.21	0.41
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.50	0.41
2:H:613:VAL:H	2:H:614:PRO:HD3	1.84	0.41
2:H:615:TRP:HA	2:H:618:VAL:CG1	2.49	0.41
2:H:737:PHE:O	2:H:773:ASN:HB3	2.20	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1308:VAL:CG1	2:H:1398:THR:HG23	2.51	0.41
2:H:1362:PHE:O	2:H:1363:PRO:O	2.38	0.41
2:H:1690:THR:HG22	2:H:1691:ALA:N	2.35	0.41
2:I:27:THR:HG22	2:I:32:GLU:HG2	2.03	0.41
2:I:544:ALA:O	2:I:554:TYR:HB3	2.20	0.41
2:I:604:MET:HG3	2:I:627:HIS:O	2.20	0.41
2:I:793:THR:O	2:I:806:PRO:HA	2.20	0.41
2:I:912:LYS:NZ	2:I:1044:LYS:O	2.53	0.41
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.55	0.41
2:I:1123:ALA:HB1	2:I:1126:GLU:H	1.86	0.41
2:I:1244:LEU:O	2:I:1260:THR:HA	2.20	0.41
2:I:1349:ALA:HB2	2:I:1427:MET:SD	2.60	0.41
2:I:1464:LEU:C	2:I:1464:LEU:HD13	2.40	0.41
2:J:1194:ARG:HD2	2:J:1598:SER:O	2.20	0.41
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.83	0.41
2:J:1380:TYR:CD2	2:J:1380:TYR:N	2.88	0.41
2:J:1406:ASN:HB3	2:J:1411:LYS:HG3	2.02	0.41
2:K:300:THR:O	2:K:304:PHE:HB2	2.20	0.41
2:K:616:ASP:N	2:K:616:ASP:OD1	2.52	0.41
2:K:727:VAL:HA	2:K:730:ILE:HG12	2.03	0.41
2:K:1131:ASP:C	2:K:1133:LEU:H	2.23	0.41
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.45	0.41
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.85	0.41
2:K:1808:PRO:O	2:K:1812:LEU:HD23	2.20	0.41
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.20	0.41
2:L:421:PHE:C	2:L:423:GLN:H	2.23	0.41
2:L:979:LEU:N	2:L:979:LEU:CD1	2.83	0.41
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.02	0.41
2:L:1606:ILE:HG22	2:L:1607:THR:O	2.20	0.41
2:L:1868:GLN:O	2:L:1873:ARG:NH2	2.53	0.41
1:A:399:TYR:OH	1:A:692:THR:HG23	2.20	0.41
1:A:872:SER:OG	1:A:874:GLN:HG3	2.20	0.41
1:A:983:GLN:O	1:A:987:MET:HG3	2.20	0.41
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.75	0.41
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.44	0.41
1:B:771:LEU:HD23	1:E:767:HIS:HE1	1.85	0.41
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.19	0.41
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	2.03	0.41
1:B:1405:ARG:HB2	1:D:1699:PRO:HG3	2.02	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.55	0.41
1:B:1601:GLN:HB2	1:B:1602:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:ILE:CD1	1:C:490:VAL:HG21	2.48	0.41
1:C:829:TYR:OH	1:C:896:PRO:HD2	2.20	0.41
1:C:859:VAL:HG13	1:C:918:LEU:HD13	2.01	0.41
1:C:1560:TYR:CE2	1:C:1589:ASN:HA	2.55	0.41
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.14	0.41
1:D:403:TRP:CZ3	1:D:404:ASN:HB2	2.55	0.41
1:D:450:TYR:CE1	1:D:1551:ASN:HB2	2.55	0.41
1:D:1170:ALA:HB3	1:D:1188:LEU:HD13	2.01	0.41
1:D:1224:SER:HB3	1:D:1307:PHE:CE2	2.56	0.41
1:D:1343:PRO:HA	1:D:1526:SER:HA	2.02	0.41
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.81	0.41
1:F:999:LEU:HD22	1:F:999:LEU:HA	1.82	0.41
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.54	0.41
2:G:325:ALA:O	2:G:327:PRO:HD3	2.20	0.41
2:G:616:ASP:OD1	2:G:616:ASP:N	2.53	0.41
2:G:663:ILE:HD12	2:G:663:ILE:N	2.35	0.41
2:G:1019:LEU:HA	2:G:1022:ARG:CD	2.50	0.41
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.55	0.41
2:G:1338:ARG:NH2	2:I:327:PRO:CD	2.80	0.41
2:G:1873:ARG:HB3	2:G:1879:SER:HA	2.03	0.41
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.85	0.41
2:H:197:VAL:O	2:H:200:LEU:HD23	2.21	0.41
2:H:342:ASN:CB	2:H:406:ARG:NH2	2.83	0.41
2:H:451:ILE:HD12	2:H:491:VAL:HG13	2.01	0.41
2:H:1236:LEU:O	2:H:1237:VAL:HG23	2.19	0.41
2:I:590:VAL:CG2	2:I:1091:HIS:CD2	3.03	0.41
2:I:747:ARG:HD2	2:I:780:SER:OG	2.20	0.41
2:I:762:LEU:HD11	2:I:800:PHE:CB	2.51	0.41
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.85	0.41
2:I:960:GLY:O	2:I:963:ILE:HB	2.20	0.41
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.56	0.41
2:J:120:HIS:NE2	2:J:137:VAL:HG11	2.36	0.41
2:J:138:ARG:CB	2:J:192:THR:HA	2.50	0.41
2:J:215:TRP:HE3	2:J:215:TRP:N	2.18	0.41
2:J:253:ILE:HB	2:J:287:GLN:NE2	2.36	0.41
2:J:396:ILE:H	2:J:396:ILE:CD1	2.18	0.41
2:J:527:LEU:O	2:J:530:ARG:HB2	2.20	0.41
2:J:625:GLY:C	2:J:656:ARG:NH2	2.74	0.41
2:J:725:GLN:HE21	2:J:767:ARG:HH11	1.69	0.41
2:J:725:GLN:HG2	2:J:764:MET:CE	2.50	0.41
2:J:769:ARG:HD3	2:J:769:ARG:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.02	0.41
2:J:1309:PHE:CD1	2:J:1309:PHE:N	2.88	0.41
2:J:1375:HIS:ND1	2:J:1610:MET:HG2	2.35	0.41
2:J:1938:THR:HG22	2:J:1977:ARG:HA	2.01	0.41
2:J:2070:ILE:O	2:J:2070:ILE:CG2	2.68	0.41
2:K:600:VAL:HG22	2:K:601:PRO:CD	2.50	0.41
2:K:600:VAL:CG2	2:K:601:PRO:HD2	2.49	0.41
2:K:750:GLY:O	2:K:865:ILE:HA	2.21	0.41
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.33	0.41
2:K:757:PHE:HE2	2:K:779:GLY:O	2.02	0.41
2:K:883:ILE:HG22	2:K:884:PHE:N	2.36	0.41
2:K:1156:ASP:HB2	2:K:1159:SER:N	2.21	0.41
2:K:1380:TYR:CD2	2:K:1380:TYR:N	2.89	0.41
2:K:1588:ASN:HA	2:K:1589:PRO:HD3	1.88	0.41
2:L:276:LEU:O	2:L:276:LEU:HD23	2.21	0.41
2:L:665:VAL:C	2:L:667:PRO:HD3	2.41	0.41
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.67	0.41
2:L:858:LEU:HD23	2:L:858:LEU:HA	1.85	0.41
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.36	0.41
1:A:1082:GLU:HA	1:A:1083:PRO:HD3	1.89	0.41
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.21	0.41
1:B:21:GLN:O	2:H:2006:HIS:HD2	2.02	0.41
1:B:46:GLU:HB3	1:B:80:CYS:HA	2.02	0.41
1:B:405:TRP:CE3	1:B:405:TRP:HA	2.55	0.41
1:B:850:THR:C	1:B:852:LEU:H	2.24	0.41
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.77	0.41
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	2.03	0.41
1:B:1491:ASN:HD22	1:B:1491:ASN:N	2.18	0.41
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.85	0.41
1:C:569:LEU:HD22	1:D:544:ASP:HB3	2.01	0.41
1:C:956:ILE:HG23	2:I:975:GLY:C	2.41	0.41
1:C:1426:GLU:HA	1:C:1429:ARG:HG3	2.02	0.41
1:C:1640:LYS:CG	1:C:1641:TYR:CD1	3.04	0.41
1:C:1670:HIS:ND1	2:I:1009:ASN:ND2	2.69	0.41
1:D:405:TRP:HA	1:D:405:TRP:CE3	2.56	0.41
1:D:413:MET:O	1:D:416:ASP:HB2	2.21	0.41
1:D:553:ARG:C	1:D:555:GLN:H	2.22	0.41
1:D:683:THR:HG21	1:D:725:LEU:HD11	2.01	0.41
1:D:1031:MET:HE2	1:D:1031:MET:HB3	1.75	0.41
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.83	0.41
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:406:ALA:HB2	1:E:439:ARG:HD2	2.01	0.41
1:E:799:LEU:HD12	1:E:821:LEU:HB3	2.03	0.41
1:E:943:VAL:HG12	1:E:944:ASN:OD1	2.19	0.41
1:E:1212:TYR:CD2	1:E:1371:MET:HG2	2.55	0.41
1:E:1213:VAL:HG22	1:E:1300:ARG:HE	1.86	0.41
1:F:454:HIS:CD2	1:F:454:HIS:N	2.88	0.41
1:F:635:ILE:HG13	1:F:635:ILE:H	1.58	0.41
1:F:1086:PHE:CZ	1:F:1310:PHE:HD2	2.38	0.41
2:G:197:VAL:HA	2:G:262:MET:HE1	2.01	0.41
2:G:641:MET:HE1	2:G:676:LEU:HD12	2.02	0.41
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.20	0.41
2:G:1376:LEU:O	2:G:1639:MET:HG2	2.20	0.41
2:G:1884:CYS:CB	2:G:1936:LEU:HD12	2.49	0.41
2:G:1953:ILE:O	2:G:1957:MET:HG2	2.20	0.41
2:G:2070:ILE:O	2:G:2070:ILE:CG2	2.67	0.41
2:H:821:GLU:H	2:H:821:GLU:HG2	1.44	0.41
2:H:827:GLN:C	2:H:1061:VAL:HG21	2.40	0.41
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.20	0.41
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	2.00	0.41
2:H:1032:PRO:O	2:H:1033:ALA:HB2	2.21	0.41
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.20	0.41
2:H:1430:THR:HG22	2:H:1431:SER:N	2.36	0.41
2:H:1460:THR:HB	2:H:1463:ASP:OD1	2.21	0.41
2:H:1489:VAL:HB	2:H:1514:LEU:HB2	2.03	0.41
2:H:1974:GLN:HG3	2:H:1977:ARG:HE	1.85	0.41
2:H:2005:PHE:HA	2:H:2010:LEU:CD1	2.31	0.41
2:I:161:ALA:HB1	2:I:166:ASN:HD22	1.85	0.41
2:I:192:THR:C	2:I:194:PRO:HD3	2.40	0.41
2:I:347:PRO:HA	2:I:432:PHE:CE1	2.54	0.41
2:I:870:THR:HG21	2:I:1064:THR:O	2.20	0.41
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.21	0.41
2:I:1873:ARG:NH1	2:I:2002:ASP:CB	2.84	0.41
2:J:161:ALA:HB1	2:J:166:ASN:HD22	1.85	0.41
2:J:296:ALA:O	2:J:466:VAL:HG23	2.21	0.41
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.55	0.41
2:J:915:PHE:O	2:J:915:PHE:CG	2.74	0.41
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.20	0.41
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.41
2:J:1266:HIS:C	2:J:1268:GLU:N	2.74	0.41
2:K:268:LEU:HD12	2:K:275:LEU:HD12	2.03	0.41
2:K:1220:ARG:HA	2:K:1229:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1259:LEU:HD11	2:K:1285:ILE:HG12	2.03	0.41
2:K:1266:HIS:CE1	2:K:1275:ARG:CD	2.95	0.41
2:K:1353:GLY:CA	2:K:1397:THR:HG21	2.48	0.41
2:L:22:ARG:CD	2:L:39:THR:HA	2.51	0.41
2:L:612:THR:HG21	2:L:629:GLU:O	2.21	0.41
2:L:652:ILE:CG2	2:L:656:ARG:HB2	2.51	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
2:L:990:TYR:N	2:L:991:PRO:CD	2.83	0.41
2:L:1335:PHE:N	2:L:1335:PHE:HD1	2.19	0.41
2:L:1558:GLU:O	2:L:1560:PRO:HD3	2.20	0.41
2:L:1607:THR:HG22	2:L:1608:HIS:N	2.36	0.41
2:L:1901:GLN:HB3	2:L:1905:GLU:OE2	2.20	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
1:A:350:ASP:HB3	1:A:353:ALA:HB2	2.01	0.41
1:A:623:PHE:N	1:A:623:PHE:HD2	2.16	0.41
1:A:1001:GLU:C	1:A:1002:ILE:HD12	2.41	0.41
1:A:1157:ASP:HB3	1:A:1326:ASN:OD1	2.21	0.41
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.20	0.41
1:B:447:PHE:HE1	1:B:451:HIS:HE2	1.68	0.41
1:B:543:ASN:O	1:B:546:ARG:HB2	2.21	0.41
1:B:827:ARG:NE	1:E:816:GLU:OE2	2.53	0.41
1:B:983:GLN:O	1:B:987:MET:HG3	2.20	0.41
1:B:1142:LEU:H	1:B:1142:LEU:CD1	2.29	0.41
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.20	0.41
1:B:1473:HIS:HD2	1:D:1499:ARG:NH2	2.18	0.41
1:C:46:GLU:HB3	1:C:80:CYS:HA	2.02	0.41
1:C:504:GLY:HA2	1:C:929:ARG:HB3	2.03	0.41
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.51	0.41
1:C:1055:THR:C	1:C:1057:GLU:H	2.23	0.41
1:C:1149:LEU:HD23	1:C:1149:LEU:HA	1.73	0.41
1:C:1364:THR:HG22	1:C:1366:GLN:N	2.32	0.41
1:D:29:ILE:HG22	1:D:30:GLU:N	2.35	0.41
1:D:404:ASN:HD21	1:D:1607:TYR:H	1.67	0.41
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.21	0.41
1:D:756:ILE:HA	1:D:759:ILE:HD11	2.03	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.46	0.41
1:D:1001:GLU:C	1:D:1002:ILE:HD12	2.41	0.41
1:D:1363:MET:SD	1:D:1367:LEU:HD13	2.60	0.41
1:E:486:VAL:HG22	1:E:648:LEU:C	2.40	0.41
1:E:648:LEU:HD12	1:E:649:THR:H	1.86	0.41
1:E:1288:ASP:O	1:E:1291:TYR:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.54	0.41
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.20	0.41
1:E:1647:ASP:C	1:E:1649:ALA:N	2.74	0.41
1:F:371:GLN:O	1:F:374:LEU:HB3	2.21	0.41
1:F:449:GLN:O	1:F:452:ILE:HG22	2.20	0.41
1:F:837:LEU:HD12	1:F:837:LEU:HA	1.86	0.41
1:F:1210:TYR:HA	1:F:1213:VAL:O	2.21	0.41
2:G:376:ARG:HA	2:G:443:TYR:OH	2.20	0.41
2:G:787:ASP:O	2:G:790:PRO:HD2	2.20	0.41
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.20	0.41
2:G:1308:VAL:CG1	2:G:1398:THR:HG23	2.51	0.41
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.20	0.41
2:H:28:HIS:O	2:H:31:LEU:HD12	2.21	0.41
2:H:38:PRO:CD	2:H:104:LEU:HD11	2.44	0.41
2:H:253:ILE:HB	2:H:287:GLN:NE2	2.35	0.41
2:H:306:THR:O	2:H:310:ARG:HG3	2.20	0.41
2:H:757:PHE:HE2	2:H:779:GLY:O	2.04	0.41
2:H:779:GLY:HA3	2:H:811:MET:HB3	2.03	0.41
2:H:798:THR:HA	2:H:802:TYR:O	2.21	0.41
2:H:1084:LYS:O	2:H:1088:ASP:HB2	2.20	0.41
2:H:1108:GLU:H	2:H:1108:GLU:HG3	1.59	0.41
2:H:1483:LEU:CD2	2:H:1525:VAL:HG11	2.49	0.41
2:H:1741:ASN:HD21	2:H:1798:GLY:HA3	1.83	0.41
2:I:379:GLY:O	2:I:391:VAL:HG13	2.21	0.41
2:I:604:MET:HG3	2:I:627:HIS:CD2	2.55	0.41
2:I:1028:VAL:HG13	2:I:1030:PHE:H	1.86	0.41
2:I:1835:GLY:HA3	2:I:1840:GLU:N	2.35	0.41
2:I:2055:PHE:HB2	2:I:2071:LEU:HD21	2.03	0.41
2:J:27:THR:HG22	2:J:32:GLU:HG2	2.02	0.41
2:J:58:GLN:HA	2:J:59:PRO:HD3	1.94	0.41
2:J:196:PHE:HD2	2:J:266:LYS:CB	2.32	0.41
2:J:444:LEU:HD23	2:J:444:LEU:HA	1.71	0.41
2:J:1246:LEU:O	2:J:1258:PRO:HA	2.20	0.41
2:J:1403:ALA:HB2	2:J:1447:GLN:HA	2.02	0.41
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.84	0.41
2:K:80:ILE:HG12	2:K:105:ILE:HG22	2.03	0.41
2:K:250:PHE:CZ	2:K:439:PHE:CZ	3.08	0.41
2:K:613:VAL:N	2:K:614:PRO:HD3	2.35	0.41
2:K:692:ILE:HD13	2:K:697:PRO:HG2	2.03	0.41
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.49	0.41
2:K:958:LEU:HD13	2:K:1025:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:172:ILE:HG23	2:L:515:ASP:HA	2.01	0.41
2:L:829:LYS:O	2:L:832:ILE:HB	2.20	0.41
2:L:942:MET:O	2:L:951:ILE:HG13	2.20	0.41
2:L:1131:ASP:C	2:L:1133:LEU:H	2.24	0.41
2:L:1346:MET:HE3	2:L:1346:MET:HB3	1.87	0.41
2:L:1866:THR:CA	2:L:1869:VAL:HG22	2.50	0.41
3:L:2101:FMN:HO2'	3:L:2101:FMN:C10	2.34	0.41
1:A:41:THR:HG22	2:G:1689:VAL:HG12	2.01	0.41
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.02	0.41
1:A:1501:ALA:HA	1:A:1502:PRO:HD3	1.96	0.41
1:B:372:LEU:CD1	1:E:371:GLN:HG2	2.45	0.41
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.50	0.41
1:B:1713:PHE:HA	1:B:1714:PRO:HD3	1.89	0.41
1:C:22:PHE:CE1	2:I:1867:MET:HG2	2.56	0.41
1:C:465:LEU:O	1:C:465:LEU:HD12	2.20	0.41
1:C:575:ARG:HD3	1:D:534:GLN:O	2.21	0.41
1:C:768:ARG:NH1	1:D:764:GLU:OE1	2.46	0.41
1:C:948:HIS:O	1:C:952:TYR:CD2	2.74	0.41
1:D:391:PHE:HA	1:D:713:PRO:O	2.19	0.41
1:D:726:VAL:HG21	1:D:780:ALA:CB	2.51	0.41
1:D:1647:ASP:C	1:D:1649:ALA:N	2.72	0.41
1:E:418:ILE:HA	1:E:462:THR:HB	2.03	0.41
1:E:1031:MET:HE2	1:E:1031:MET:HB3	1.70	0.41
1:E:1622:VAL:HG13	1:E:1622:VAL:O	2.21	0.41
1:E:1662:GLN:HE21	1:E:1662:GLN:HB3	1.70	0.41
1:F:31:THR:HG23	2:L:2040:ILE:CG2	2.51	0.41
1:F:538:ARG:HD2	1:F:542:GLN:NE2	2.36	0.41
2:G:113:PHE:N	2:G:113:PHE:HD1	2.19	0.41
2:G:489:GLU:HG2	2:G:492:ARG:NH1	2.35	0.41
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.21	0.41
2:G:625:GLY:C	2:G:656:ARG:NH2	2.74	0.41
2:G:834:ASP:O	2:G:836:PRO:HD3	2.20	0.41
2:G:865:ILE:HG22	2:G:867:LYS:HG3	2.02	0.41
2:G:884:PHE:CE2	2:G:1039:GLU:HA	2.51	0.41
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.21	0.41
2:G:1904:VAL:HG22	2:G:1939:LEU:CD2	2.49	0.41
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.85	0.41
2:H:270:ARG:HG3	2:H:274:GLU:OE1	2.21	0.41
2:H:489:GLU:HG2	2:H:492:ARG:CZ	2.50	0.41
2:H:617:PHE:HE2	2:H:628:ILE:HD11	1.84	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1578:GLU:O	2:H:1582:ARG:HD2	2.21	0.41
2:H:1847:LEU:HD12	2:H:1847:LEU:N	2.36	0.41
2:I:727:VAL:HA	2:I:730:ILE:HG12	2.03	0.41
2:I:868:LEU:O	2:I:870:THR:HG23	2.20	0.41
2:I:872:GLY:HA2	2:I:909:ASP:O	2.21	0.41
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.40	0.41
2:J:67:ASP:CA	2:J:132:LYS:HE2	2.48	0.41
2:J:117:ASN:HA	2:J:561:ARG:CD	2.50	0.41
2:J:608:MET:HE1	2:J:817:MET:HG2	2.02	0.41
2:K:26:LEU:HD22	2:K:53:LEU:HD21	2.03	0.41
2:K:342:ASN:HD22	2:K:342:ASN:N	2.18	0.41
2:K:357:THR:HG22	2:K:359:SER:H	1.85	0.41
2:K:396:ILE:H	2:K:396:ILE:CD1	2.29	0.41
2:K:867:LYS:NZ	2:K:1065:CYS:SG	2.85	0.41
2:K:876:TRP:C	2:K:876:TRP:HD1	2.22	0.41
2:K:1211:ASP:HA	2:K:1212:PRO:HD2	1.83	0.41
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.83	0.41
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.55	0.41
2:K:1766:PHE:CZ	2:K:1869:VAL:HB	2.55	0.41
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.38	0.41
2:L:276:LEU:HD11	2:L:296:ALA:HA	2.02	0.41
2:L:604:MET:HG3	2:L:627:HIS:CD2	2.56	0.41
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.56	0.41
2:L:1290:TYR:CG	2:L:1299:VAL:CG1	2.91	0.41
2:L:1424:LYS:HA	2:L:1425:PRO:HD3	1.84	0.41
2:L:1948:MET:HA	2:L:1948:MET:HE1	2.01	0.41
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	2.03	0.41
1:B:569:LEU:HD13	1:E:548:VAL:CG2	2.51	0.41
1:C:408:GLN:NE2	1:C:1609:SER:H	2.16	0.41
1:C:802:SER:HA	1:C:803:PRO:HD3	1.89	0.41
1:C:1420:TYR:O	1:C:1424:GLN:HG2	2.21	0.41
1:D:983:GLN:O	1:D:987:MET:HG3	2.20	0.41
1:D:1094:LYS:HE2	1:D:1312:GLU:HG2	2.03	0.41
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.35	0.41
1:E:449:GLN:HG3	1:E:474:ILE:HD13	2.02	0.41
1:E:454:HIS:CD2	1:E:454:HIS:N	2.88	0.41
1:E:948:HIS:O	1:E:952:TYR:CD2	2.74	0.41
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.73	0.41
1:F:14:LEU:HD21	2:L:1844:LEU:HD21	2.01	0.41
1:F:526:MET:CE	1:F:614:PHE:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1212:TYR:CD2	1:F:1371:MET:HG2	2.55	0.41
2:G:26:LEU:HD23	2:G:26:LEU:HA	1.83	0.41
2:G:306:THR:O	2:G:310:ARG:HG3	2.20	0.41
2:G:690:LEU:HD22	2:G:691:THR:N	2.36	0.41
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.56	0.41
2:G:1127:GLU:HA	2:G:1128:PRO:HD3	1.74	0.41
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.55	0.41
2:G:1723:ASP:CG	2:G:1735:ILE:HG13	2.41	0.41
2:G:1944:ASN:HA	2:G:1993:PHE:CE1	2.55	0.41
2:H:276:LEU:O	2:H:276:LEU:HD23	2.21	0.41
2:H:281:GLY:HA3	2:H:470:TYR:CE1	2.51	0.41
2:H:890:LYS:HE3	2:H:890:LYS:HB2	1.85	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:H:1299:VAL:HG23	2:H:1301:PHE:CD2	2.55	0.41
2:H:1515:LEU:HB3	2:H:1525:VAL:HG21	2.02	0.41
2:H:1722:ALA:CB	2:H:1812:LEU:HD11	2.51	0.41
2:H:1896:THR:HG22	2:H:1898:GLN:N	2.23	0.41
2:H:1901:GLN:HB3	2:H:1905:GLU:OE2	2.20	0.41
2:I:167:VAL:HG23	2:I:169:ILE:HG13	2.02	0.41
2:I:609:THR:CB	2:I:610:PRO:HD3	2.51	0.41
2:I:612:THR:CG2	2:I:629:GLU:O	2.69	0.41
2:I:1123:ALA:CB	2:I:1126:GLU:HG3	2.46	0.41
2:I:1269:ALA:HB1	2:I:1271:TYR:CE2	2.56	0.41
2:I:1301:PHE:CD1	2:I:1364:ARG:CZ	3.04	0.41
2:I:1871:VAL:HG12	2:I:1872:GLU:N	2.35	0.41
2:I:1947:LYS:HE3	2:I:1948:MET:CE	2.51	0.41
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.02	0.41
2:J:376:ARG:HA	2:J:443:TYR:OH	2.21	0.41
2:J:917:ARG:NH1	2:J:1057:TYR:OH	2.54	0.41
2:J:960:GLY:O	2:J:963:ILE:HB	2.21	0.41
2:J:1115:TYR:OH	2:J:1173:HIS:CD2	2.69	0.41
2:J:1211:ASP:HA	2:J:1212:PRO:HD2	1.84	0.41
2:J:1299:VAL:HG23	2:J:1301:PHE:CD2	2.55	0.41
2:J:1349:ALA:HB2	2:J:1427:MET:SD	2.60	0.41
2:J:1374:VAL:CG2	2:J:1436:ARG:NE	2.84	0.41
2:J:1496:VAL:HG23	2:J:1507:VAL:HG12	2.02	0.41
2:K:859:SER:HB3	2:K:863:GLU:HG3	2.01	0.41
2:K:1084:LYS:HE3	2:K:1088:ASP:OD2	2.21	0.41
2:K:1317:ASN:OD1	2:K:1319:GLN:HB3	2.21	0.41
2:K:1624:ALA:CB	2:K:1665:ILE:HD13	2.51	0.41
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:785:SER:O	2:L:789:TYR:HB2	2.20	0.41
2:L:1032:PRO:O	2:L:1033:ALA:HB2	2.20	0.41
2:L:1382:MET:HB2	2:L:1633:ARG:HH11	1.86	0.41
2:L:1847:LEU:HD12	2:L:1847:LEU:N	2.36	0.41
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.19	0.41
1:A:72:THR:HG22	1:A:72:THR:O	2.20	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.50	0.41
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.21	0.41
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.20	0.41
1:A:683:THR:HG21	1:A:725:LEU:HD11	2.02	0.41
1:A:846:TRP:CH2	1:A:863:VAL:HG21	2.56	0.41
1:A:991:ASP:HA	1:A:1364:THR:CG2	2.50	0.41
1:A:1017:TYR:CD1	1:A:1017:TYR:N	2.89	0.41
1:A:1055:THR:C	1:A:1057:GLU:H	2.23	0.41
1:A:1202:GLY:HA3	1:A:1661:ARG:HD3	2.02	0.41
1:B:408:GLN:HE22	1:B:1609:SER:N	2.19	0.41
1:B:413:MET:O	1:B:416:ASP:HB2	2.21	0.41
1:B:449:GLN:O	1:B:452:ILE:HG22	2.20	0.41
1:B:527:ALA:HA	1:B:613:PRO:HB3	2.03	0.41
1:B:622:GLU:HB2	1:B:623:PHE:CD2	2.56	0.41
1:B:663:GLY:O	1:B:852:LEU:HD11	2.21	0.41
1:B:799:LEU:HD12	1:B:821:LEU:HB3	2.03	0.41
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.73	0.41
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.17	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
1:B:1604:TYR:CD2	1:B:1604:TYR:N	2.89	0.41
1:B:1662:GLN:HE21	1:B:1662:GLN:HB3	1.69	0.41
1:C:400:ASP:C	1:C:400:ASP:OD1	2.59	0.41
1:C:449:GLN:O	1:C:452:ILE:HG22	2.20	0.41
1:C:449:GLN:HG3	1:C:474:ILE:HD13	2.02	0.41
1:C:715:ASN:HD22	1:C:715:ASN:C	2.24	0.41
1:C:759:ILE:N	1:C:759:ILE:HD12	2.36	0.41
1:C:874:GLN:HE21	1:C:874:GLN:HB3	1.67	0.41
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.55	0.41
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.51	0.41
1:C:1045:LYS:HA	1:C:1046:PRO:HD3	1.90	0.41
1:C:1082:GLU:HA	1:C:1083:PRO:HD3	1.85	0.41
1:C:1407:LYS:HB2	1:F:1699:PRO:HD2	2.03	0.41
1:C:1564:HIS:ND1	1:C:1564:HIS:C	2.73	0.41
1:C:1638:HIS:HA	1:C:1639:PRO:HD3	1.98	0.41
1:C:1685:ALA:HB1	1:C:1686:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.52	0.41
1:D:628:TYR:HD1	1:D:628:TYR:C	2.23	0.41
1:D:828:TRP:NE1	1:D:838:THR:HA	2.30	0.41
1:D:829:TYR:OH	1:D:896:PRO:HD2	2.21	0.41
1:D:1000:ALA:HB3	1:D:1197:ALA:HB2	2.03	0.41
1:D:1083:PRO:HB3	1:D:1089:TYR:O	2.20	0.41
1:D:1342:ARG:HB3	1:D:1345:SER:HB2	2.03	0.41
1:D:1604:TYR:CD2	1:D:1604:TYR:N	2.89	0.41
1:D:1640:LYS:CG	1:D:1641:TYR:CD1	3.04	0.41
1:E:407:ARG:HB3	1:E:447:PHE:CE2	2.56	0.41
1:E:498:THR:HG21	1:E:858:LEU:HA	2.02	0.41
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.92	0.41
1:E:1055:THR:C	1:E:1057:GLU:H	2.25	0.41
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.21	0.41
1:E:1444:GLN:O	1:E:1447:VAL:HB	2.21	0.41
1:F:450:TYR:CE1	1:F:1551:ASN:HB2	2.56	0.41
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.98	0.41
1:F:918:LEU:HD23	1:F:921:GLU:OE2	2.21	0.41
1:F:1015:GLU:HA	1:F:1561:LEU:HD12	2.02	0.41
1:F:1220:ASN:HB3	1:F:1273:ILE:HG22	2.03	0.41
1:F:1400:VAL:HG11	1:F:1633:GLN:HB2	2.03	0.41
1:F:1586:VAL:HA	1:F:1587:PRO:HD3	1.80	0.41
2:G:114:MET:HG2	2:G:122:ILE:HG21	2.03	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.91	0.41
2:G:265:CYS:HA	2:G:275:LEU:HD12	2.03	0.41
2:G:300:THR:HG22	2:G:301:TRP:N	2.36	0.41
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.20	0.41
2:G:747:ARG:HD2	2:G:780:SER:OG	2.21	0.41
2:G:1153:ASN:HD22	2:G:1153:ASN:HA	1.58	0.41
2:G:1179:GLU:HB3	2:G:1193:LYS:HE3	2.03	0.41
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.34	0.41
2:G:1471:GLU:H	2:G:1471:GLU:HG3	1.44	0.41
2:H:92:GLU:O	2:H:93:ASP:HB2	2.21	0.41
2:H:120:HIS:CD2	2:H:137:VAL:CG1	3.04	0.41
2:H:604:MET:HG3	2:H:627:HIS:O	2.20	0.41
2:H:705:TYR:HA	2:H:709:LEU:CD2	2.51	0.41
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.03	0.41
2:H:868:LEU:HD12	2:H:868:LEU:HA	1.73	0.41
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.77	0.41
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.55	0.41
2:H:1291:ARG:HD2	2:H:1297:LYS:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.85	0.41
2:H:1558:GLU:O	2:H:1560:PRO:HD3	2.20	0.41
2:H:1602:LEU:HB3	2:H:1606:ILE:HD11	2.02	0.41
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.51	0.41
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.86	0.41
2:I:22:ARG:HD2	2:I:42:HIS:HB2	2.02	0.41
2:I:129:ILE:O	2:I:129:ILE:HG13	2.21	0.41
2:I:186:LEU:HD11	2:I:255:LEU:HD23	2.03	0.41
2:I:306:THR:O	2:I:310:ARG:HG3	2.20	0.41
2:I:342:ASN:CB	2:I:406:ARG:NH2	2.83	0.41
2:I:384:ASN:HB3	2:I:527:LEU:CD1	2.36	0.41
2:I:478:LEU:HD22	2:I:481:LEU:HD11	2.02	0.41
2:I:612:THR:HG21	2:I:629:GLU:O	2.21	0.41
2:I:764:MET:O	2:I:768:ILE:HG13	2.21	0.41
2:I:858:LEU:HD23	2:I:864:PRO:HA	2.02	0.41
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.03	0.41
2:I:930:THR:HA	2:I:1007:LEU:HA	2.01	0.41
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	2.03	0.41
2:I:1261:PHE:CE2	2:I:1285:ILE:HD11	2.54	0.41
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.88	0.41
2:I:1325:VAL:HG22	2:I:1335:PHE:CD2	2.55	0.41
2:I:1335:PHE:CD1	2:I:1629:ILE:HD11	2.55	0.41
2:I:1383:VAL:HA	2:I:1384:PRO:HD3	1.96	0.41
2:I:1429:VAL:O	2:I:1429:VAL:HG12	2.20	0.41
2:I:1587:TYR:O	2:I:1588:ASN:C	2.59	0.41
2:I:1589:PRO:CB	2:I:1596:PHE:CG	3.03	0.41
2:I:1704:MET:SD	2:I:1810:LEU:HD23	2.60	0.41
2:I:1767:GLU:CB	2:I:2016:PRO:CG	2.91	0.41
2:I:1808:PRO:O	2:I:1812:LEU:HD23	2.21	0.41
2:I:1891:ILE:HD11	2:I:1943:LEU:HD22	2.03	0.41
2:J:134:ILE:HG22	2:J:138:ARG:HH11	1.86	0.41
2:J:250:PHE:O	2:J:315:LEU:HD23	2.21	0.41
2:J:310:ARG:HH11	2:J:460:ILE:CD1	2.34	0.41
2:J:649:GLU:HG3	2:J:650:LYS:N	2.35	0.41
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.50	0.41
2:J:856:THR:HG22	2:J:865:ILE:O	2.21	0.41
2:J:1131:ASP:C	2:J:1133:LEU:H	2.24	0.41
2:J:2005:PHE:HA	2:J:2010:LEU:CD1	2.30	0.41
3:J:2101:FMN:H1'2	3:J:2101:FMN:O4'	2.20	0.41
2:K:182:TYR:CD1	2:K:182:TYR:C	2.95	0.41
2:K:785:SER:HB3	2:K:1094:HIS:HD2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.76	0.41
2:K:1028:VAL:HG13	2:K:1030:PHE:H	1.86	0.41
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.56	0.41
2:K:1180:VAL:HG11	2:K:1187:PHE:CD2	2.55	0.41
2:K:1220:ARG:HB3	2:K:1228:LEU:HB2	2.03	0.41
2:K:1355:LYS:O	2:K:1359:LYS:HG3	2.21	0.41
2:L:26:LEU:HD22	2:L:53:LEU:HD21	2.03	0.41
2:L:58:GLN:HA	2:L:59:PRO:HD3	1.95	0.41
2:L:129:ILE:O	2:L:129:ILE:CG1	2.69	0.41
2:L:192:THR:C	2:L:194:PRO:HD3	2.41	0.41
2:L:349:PRO:O	2:L:392:THR:HG22	2.20	0.41
2:L:615:TRP:CE3	2:L:647:LYS:HB3	2.55	0.41
2:L:691:THR:OG1	2:L:715:SER:HB3	2.21	0.41
2:L:725:GLN:HE21	2:L:767:ARG:HH11	1.69	0.41
2:L:762:LEU:HD11	2:L:800:PHE:CB	2.51	0.41
2:L:783:GLY:CA	2:L:815:ARG:HD3	2.51	0.41
2:L:796:TRP:CG	2:L:797:SER:N	2.88	0.41
2:L:798:THR:HA	2:L:802:TYR:O	2.21	0.41
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	2.03	0.41
2:L:1293:TRP:NE1	2:L:1586:ASP:OD1	2.47	0.41
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.89	0.41
2:L:1350:ILE:HD13	2:L:1350:ILE:HA	1.72	0.41
2:L:1515:LEU:HB3	2:L:1525:VAL:HG21	2.01	0.41
1:A:349:MET:HG3	1:A:349:MET:O	2.21	0.41
1:A:1037:ASN:CB	1:A:1674:ILE:HG23	2.51	0.41
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.21	0.41
1:B:421:ARG:HH22	1:B:1613:LYS:CB	2.33	0.41
1:B:450:TYR:CD2	1:B:450:TYR:C	2.94	0.41
1:B:564:LEU:O	1:B:564:LEU:HD13	2.20	0.41
1:B:995:VAL:CG1	1:B:1375:ILE:HG23	2.51	0.41
1:B:1447:VAL:HG21	1:B:1467:LEU:HD11	2.02	0.41
1:B:1467:LEU:HD23	1:B:1467:LEU:HA	1.93	0.41
1:B:1699:PRO:HD2	1:D:1407:LYS:HB2	2.02	0.41
1:C:22:PHE:HE1	2:I:1867:MET:HG2	1.85	0.41
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.03	0.41
1:C:1388:LYS:HD3	1:F:1692:GLN:NE2	2.36	0.41
1:C:1638:HIS:CG	1:C:1639:PRO:HD2	2.56	0.41
1:D:1400:VAL:HG11	1:D:1633:GLN:HB2	2.03	0.41
1:E:667:ALA:O	1:E:670:LEU:HB3	2.20	0.41
1:E:1078:ILE:CB	1:E:1338:GLY:HA2	2.50	0.41
2:G:68:GLU:HB3	2:G:69:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:215:TRP:HE3	2:G:216:ASP:N	2.07	0.41
2:G:659:THR:HA	2:G:689:GLY:O	2.21	0.41
2:G:713:HIS:HD2	2:G:740:ILE:HD13	1.85	0.41
2:G:955:LEU:O	2:G:959:THR:HG23	2.22	0.41
2:G:990:TYR:N	2:G:991:PRO:CD	2.84	0.41
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.21	0.41
2:G:1602:LEU:HD22	2:G:1606:ILE:HD11	2.03	0.41
2:G:1621:GLU:HG2	2:G:1632:VAL:HG11	2.02	0.41
2:H:44:GLN:HE21	2:H:48:LEU:HD21	1.86	0.41
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.86	0.41
2:H:196:PHE:CD2	2:H:266:LYS:CB	3.03	0.41
2:H:310:ARG:HH11	2:H:460:ILE:CD1	2.34	0.41
2:H:625:GLY:C	2:H:656:ARG:NH2	2.75	0.41
2:H:717:LYS:HD2	3:H:2101:FMN:O2	2.21	0.41
2:I:460:ILE:HA	2:I:461:PRO:HD3	1.79	0.41
2:I:1266:HIS:C	2:I:1268:GLU:N	2.75	0.41
2:I:1346:MET:HB2	2:I:1427:MET:HE1	2.03	0.41
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.03	0.41
2:I:1712:SER:HA	2:I:1713:PRO:HD3	1.90	0.41
2:J:350:MET:SD	2:J:392:THR:CG2	3.09	0.41
2:J:741:LEU:O	2:J:741:LEU:CG	2.68	0.41
2:J:1067:LEU:HD12	2:J:1067:LEU:H	1.85	0.41
2:J:1607:THR:HG22	2:J:1608:HIS:N	2.35	0.41
2:K:134:ILE:HG12	2:K:545:ILE:CD1	2.51	0.41
2:K:161:ALA:HA	2:K:164:GLU:HB2	2.03	0.41
2:K:759:GLN:O	2:K:763:LEU:HB2	2.21	0.41
2:K:783:GLY:HA3	2:K:1075:TYR:CG	2.56	0.41
2:K:1462:GLN:O	2:K:1466:VAL:HG23	2.21	0.41
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.21	0.41
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.86	0.41
2:L:1022:ARG:HG2	2:L:1022:ARG:H	1.67	0.41
2:L:1071:VAL:HG23	2:L:1074:LYS:HE2	2.03	0.41
2:L:1589:PRO:HB3	2:L:1596:PHE:CD1	2.56	0.41
2:L:1998:LEU:HB2	2:L:2001:ILE:HD12	2.02	0.41
1:A:405:TRP:HA	1:A:405:TRP:CE3	2.56	0.40
1:A:422:LEU:HB3	1:A:429:ILE:CD1	2.49	0.40
1:A:689:ARG:NH2	1:A:1591:ASN:ND2	2.68	0.40
1:A:918:LEU:HA	1:A:921:GLU:CG	2.51	0.40
1:A:943:VAL:HG12	1:A:944:ASN:OD1	2.21	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.03	0.40
1:A:1232:LEU:HD23	1:A:1232:LEU:HA	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1297:GLY:HA2	1:E:1496:ARG:CZ	2.51	0.40
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.40
1:B:357:ALA:HB1	1:E:358:PHE:CE1	2.56	0.40
1:B:407:ARG:H	1:B:407:ARG:HG3	1.62	0.40
1:B:452:ILE:HD11	1:B:470:GLY:HA3	2.02	0.40
1:B:689:ARG:NH1	1:B:1339:GLU:OE2	2.54	0.40
1:B:1220:ASN:HB3	1:B:1273:ILE:HG22	2.03	0.40
1:C:991:ASP:HA	1:C:1364:THR:CG2	2.52	0.40
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.40
1:D:358:PHE:HD2	1:D:359:VAL:N	2.19	0.40
1:D:670:LEU:HD11	1:D:680:VAL:HG21	2.03	0.40
1:D:1202:GLY:HA3	1:D:1661:ARG:HD3	2.04	0.40
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.21	0.40
1:D:1381:MET:HE3	1:D:1403:THR:HB	2.03	0.40
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.22	0.40
1:D:1472:GLU:O	1:D:1475:GLU:HB2	2.21	0.40
1:E:26:VAL:CG2	2:K:2006:HIS:CE1	3.05	0.40
1:E:484:PRO:HG3	1:E:651:GLN:OE1	2.22	0.40
1:E:967:PHE:HB3	1:E:968:PRO:CD	2.50	0.40
1:E:1015:GLU:HA	1:E:1561:LEU:HD12	2.03	0.40
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.40
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.19	0.40
1:F:1150:ILE:HA	1:F:1151:PRO:HD3	1.92	0.40
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.21	0.40
2:G:585:VAL:HG12	2:G:585:VAL:O	2.21	0.40
2:G:604:MET:HG3	2:G:627:HIS:HD2	1.86	0.40
2:G:608:MET:HA	3:G:2101:FMN:C5A	2.51	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.86	0.40
2:G:771:CYS:HB3	2:G:774:ILE:CD1	2.48	0.40
2:G:785:SER:HB3	2:G:1094:HIS:CD2	2.56	0.40
2:G:995:ARG:O	2:G:998:ALA:HB3	2.21	0.40
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.55	0.40
2:G:1245:THR:HG23	2:G:1260:THR:OG1	2.21	0.40
2:G:1419:LEU:HD23	2:G:1419:LEU:HA	1.89	0.40
2:G:1901:GLN:HB3	2:G:1905:GLU:OE2	2.21	0.40
2:H:336:LEU:HD23	2:H:336:LEU:C	2.41	0.40
2:H:369:ASN:HB3	2:H:377:HIS:ND1	2.36	0.40
2:H:376:ARG:HA	2:H:443:TYR:OH	2.21	0.40
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.20	0.40
2:H:828:ALA:HA	2:H:1061:VAL:HG11	2.03	0.40
2:H:879:LEU:HB3	2:H:884:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:915:PHE:O	2:H:915:PHE:CG	2.74	0.40
2:H:1071:VAL:HG23	2:H:1074:LYS:HE2	2.04	0.40
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.13	0.40
2:H:1804:GLN:O	2:H:1861:PHE:HD1	2.04	0.40
2:H:2052:LYS:H	2:H:2052:LYS:CE	2.11	0.40
2:I:350:MET:HE3	2:I:435:ILE:HD12	2.02	0.40
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.51	0.40
2:I:1227:LYS:HG2	2:I:1228:LEU:HG	2.02	0.40
2:I:1460:THR:HB	2:I:1463:ASP:OD1	2.21	0.40
2:I:1610:MET:HE2	2:I:1613:SER:HB3	2.03	0.40
2:I:1799:LEU:C	2:I:1801:SER:H	2.23	0.40
2:J:92:GLU:C	2:J:94:ALA:H	2.25	0.40
2:J:251:PRO:HG3	2:J:316:PHE:N	2.36	0.40
2:J:1205:GLU:O	2:J:1217:ILE:HA	2.21	0.40
2:J:1224:GLN:HG3	2:J:1578:GLU:OE2	2.20	0.40
2:J:1863:ARG:O	2:J:1867:MET:HG3	2.20	0.40
2:K:540:ILE:CD1	2:K:557:GLU:HB3	2.48	0.40
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.50	0.40
2:K:1658:MET:CE	2:K:1826:LEU:HD23	2.51	0.40
2:K:1851:MET:SD	2:K:1856:LEU:HA	2.61	0.40
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.86	0.40
2:L:161:ALA:HA	2:L:164:GLU:HB2	2.03	0.40
2:L:717:LYS:HD2	3:L:2101:FMN:O2	2.20	0.40
2:L:731:ALA:HB1	2:L:771:CYS:SG	2.61	0.40
2:L:1220:ARG:HB3	2:L:1228:LEU:HB2	2.03	0.40
1:A:1426:GLU:HA	1:A:1429:ARG:HG3	2.03	0.40
1:B:450:TYR:CZ	1:B:1551:ASN:HB2	2.56	0.40
1:B:740:LEU:HA	1:B:740:LEU:HD23	1.81	0.40
1:B:948:HIS:O	1:B:952:TYR:CD2	2.74	0.40
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.54	0.40
1:B:1687:TYR:OH	1:D:1388:LYS:HB3	2.21	0.40
1:C:565:GLN:O	1:C:565:GLN:CG	2.69	0.40
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.57	0.40
1:C:1000:ALA:HB3	1:C:1197:ALA:HB2	2.03	0.40
1:C:1015:GLU:HA	1:C:1561:LEU:HD12	2.04	0.40
1:C:1364:THR:CG2	1:C:1366:GLN:HB2	2.51	0.40
1:D:622:GLU:HB2	1:D:623:PHE:CD2	2.56	0.40
1:D:739:ASP:OD2	1:D:790:TYR:CG	2.74	0.40
1:D:767:HIS:NE2	1:D:771:LEU:CD2	2.82	0.40
1:D:918:LEU:HD23	1:D:921:GLU:OE2	2.22	0.40
1:E:61:LEU:HA	1:E:65:TYR:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:504:GLY:O	1:E:926:SER:HB2	2.21	0.40
1:E:1149:LEU:HD23	1:E:1149:LEU:HA	1.73	0.40
1:E:1400:VAL:H	1:E:1400:VAL:HG23	1.66	0.40
1:F:358:PHE:HD2	1:F:359:VAL:N	2.19	0.40
1:F:1042:LEU:HD23	1:F:1042:LEU:HA	1.76	0.40
1:F:1638:HIS:ND1	1:F:1639:PRO:CD	2.84	0.40
2:G:555:LYS:HG2	2:G:559:PHE:HE1	1.86	0.40
2:G:718:PRO:HG2	2:G:741:LEU:HD11	2.03	0.40
2:G:917:ARG:NH1	2:G:1057:TYR:OH	2.54	0.40
2:G:1220:ARG:HB3	2:G:1228:LEU:HB2	2.03	0.40
2:G:1251:THR:CG2	2:G:1292:VAL:HG13	2.50	0.40
2:G:1355:LYS:O	2:G:1359:LYS:HG3	2.22	0.40
2:G:1403:ALA:CB	2:G:1447:GLN:HA	2.51	0.40
2:G:1692:TYR:CD1	2:G:1847:LEU:HD21	2.49	0.40
2:H:47:GLN:HG3	2:I:23:PRO:CD	2.50	0.40
2:I:129:ILE:O	2:I:129:ILE:CG1	2.68	0.40
2:I:300:THR:O	2:I:304:PHE:HB2	2.21	0.40
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:I:462:ALA:HB3	2:I:481:LEU:O	2.21	0.40
2:I:595:SER:CB	2:I:602:PRO:HG3	2.33	0.40
2:I:883:ILE:HG22	2:I:884:PHE:N	2.36	0.40
2:I:1032:PRO:O	2:I:1033:ALA:HB2	2.22	0.40
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.22	0.40
2:I:1180:VAL:HG11	2:I:1187:PHE:CD2	2.57	0.40
2:I:1224:GLN:CG	2:I:1578:GLU:OE2	2.67	0.40
2:I:1866:THR:CA	2:I:1869:VAL:HG22	2.50	0.40
2:J:141:TYR:HA	2:J:144:ARG:HB3	2.03	0.40
2:J:196:PHE:CD2	2:J:266:LYS:CB	3.05	0.40
2:J:369:ASN:HB3	2:J:377:HIS:ND1	2.37	0.40
2:J:689:GLY:HA3	2:J:713:HIS:CE1	2.56	0.40
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.41	0.40
2:J:944:VAL:HG11	2:J:1055:ALA:HA	2.01	0.40
2:J:1180:VAL:HG11	2:J:1187:PHE:CD2	2.56	0.40
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.35	0.40
2:J:1266:HIS:CE1	2:J:1275:ARG:CD	2.93	0.40
2:J:1317:ASN:OD1	2:J:1319:GLN:HB3	2.20	0.40
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.39	0.40
2:J:1708:LEU:O	2:J:1708:LEU:HD22	2.21	0.40
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.56	0.40
2:J:1871:VAL:HG12	2:J:1872:GLU:N	2.36	0.40
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:113:PHE:N	2:K:113:PHE:HD1	2.19	0.40
2:K:276:LEU:HD22	2:K:466:VAL:CG1	2.51	0.40
2:K:332:ALA:N	2:L:1627:ASN:ND2	2.70	0.40
2:K:1179:GLU:HB3	2:K:1193:LYS:HE3	2.03	0.40
2:K:1179:GLU:O	2:K:1190:ASN:N	2.53	0.40
2:K:1764:MET:CE	2:K:1865:LEU:CD1	2.98	0.40
2:L:44:GLN:HE21	2:L:48:LEU:HD21	1.85	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.88	0.40
2:L:727:VAL:HA	2:L:730:ILE:CG1	2.51	0.40
2:L:883:ILE:HG22	2:L:884:PHE:N	2.35	0.40
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.40
2:L:1098:LEU:HD12	2:L:1098:LEU:HA	1.91	0.40
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.51	0.40
2:L:1206:ILE:O	2:L:1209:PRO:HG3	2.21	0.40
2:L:1588:ASN:OD1	2:L:1589:PRO:HD2	2.21	0.40
1:A:447:PHE:HA	1:A:1550:GLY:O	2.22	0.40
1:A:740:LEU:HD23	1:A:740:LEU:HA	1.94	0.40
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.92	0.40
1:A:1313:GLU:H	1:A:1313:GLU:HG2	1.48	0.40
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	2.03	0.40
1:B:538:ARG:HD2	1:B:542:GLN:NE2	2.36	0.40
1:B:1160:VAL:HB	1:B:1352:MET:CE	2.51	0.40
1:C:1097:LEU:CD1	1:F:1149:LEU:HD12	2.50	0.40
1:C:1342:ARG:NH1	1:C:1347:THR:CB	2.65	0.40
1:C:1400:VAL:HG11	1:C:1633:GLN:HB2	2.03	0.40
1:D:740:LEU:HD12	1:D:781:ILE:HD13	2.02	0.40
1:D:921:GLU:HG3	1:D:922:ILE:H	1.85	0.40
1:E:358:PHE:HD2	1:E:359:VAL:N	2.19	0.40
1:E:567:ASN:O	1:E:571:LYS:HG3	2.20	0.40
1:E:859:VAL:HG13	1:E:918:LEU:HD13	2.02	0.40
1:E:1081:ILE:HD12	1:E:1091:PRO:CG	2.52	0.40
1:E:1162:GLY:O	1:E:1354:SER:HA	2.21	0.40
1:F:447:PHE:HE1	1:F:451:HIS:HE2	1.70	0.40
1:F:626:TRP:CZ3	1:F:898:PHE:HB2	2.56	0.40
2:G:172:ILE:HG22	2:G:514:VAL:O	2.21	0.40
2:G:1227:LYS:HG2	2:G:1228:LEU:HG	2.02	0.40
2:G:1700:GLN:O	2:G:1700:GLN:HG2	2.21	0.40
2:G:1741:ASN:HD21	2:G:1798:GLY:HA3	1.86	0.40
2:G:1764:MET:O	2:G:1780:ILE:HG13	2.21	0.40
2:G:2044:THR:HG21	2:G:2054:TYR:OH	2.21	0.40
2:H:314:LEU:O	2:H:318:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.56	0.40
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.36	0.40
2:H:740:ILE:HA	2:H:775:VAL:HB	2.03	0.40
2:H:906:LEU:HA	2:H:906:LEU:HD22	1.85	0.40
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.63	0.40
2:H:1299:VAL:O	2:H:1301:PHE:HD2	2.03	0.40
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.20	0.40
2:I:26:LEU:HD22	2:I:53:LEU:HD21	2.03	0.40
2:I:126:VAL:O	2:I:133:LYS:HE3	2.22	0.40
2:I:727:VAL:HA	2:I:730:ILE:CG1	2.51	0.40
2:I:871:ARG:HB2	2:I:909:ASP:HB2	2.03	0.40
2:I:995:ARG:O	2:I:998:ALA:HB3	2.20	0.40
2:I:1084:LYS:O	2:I:1088:ASP:HB2	2.21	0.40
2:I:1325:VAL:HG22	2:I:1335:PHE:HD2	1.87	0.40
2:J:420:PRO:HB2	2:J:423:GLN:HB2	2.04	0.40
2:J:618:VAL:HG13	2:J:619:ALA:N	2.36	0.40
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.35	0.40
2:J:1097:PHE:HD2	2:J:1100:ARG:NH1	2.15	0.40
2:J:1944:ASN:HA	2:J:1993:PHE:CE1	2.55	0.40
2:K:129:ILE:HG21	2:K:132:LYS:CG	2.51	0.40
2:K:233:ASN:HA	2:K:234:PRO:HD3	1.88	0.40
2:K:277:GLU:OE2	2:K:277:GLU:HA	2.21	0.40
2:K:625:GLY:C	2:K:656:ARG:NH2	2.75	0.40
2:K:699:ILE:HD12	2:K:699:ILE:H	1.85	0.40
2:K:739:ILE:HG13	2:K:773:ASN:HB3	2.03	0.40
2:K:922:GLU:HA	2:K:923:PRO:HD3	1.90	0.40
2:K:1175:MET:HA	2:K:1274:ILE:HD11	2.02	0.40
2:K:1589:PRO:HB2	2:K:1596:PHE:HB3	2.03	0.40
2:K:1631:ARG:CZ	2:K:1688:PRO:HA	2.51	0.40
2:K:1948:MET:HA	2:K:1948:MET:HE1	2.02	0.40
2:L:200:LEU:O	2:L:204:ILE:HG13	2.21	0.40
2:L:976:GLN:HA	2:L:977:PRO:HD3	1.87	0.40
2:L:1179:GLU:HB3	2:L:1193:LYS:HE3	2.02	0.40
1:A:635:ILE:HG13	1:A:635:ILE:H	1.58	0.40
1:A:828:TRP:NE1	1:A:838:THR:HA	2.35	0.40
1:A:1191:LEU:HD23	1:A:1191:LEU:HA	1.94	0.40
1:A:1400:VAL:HG11	1:A:1633:GLN:HB2	2.02	0.40
1:B:391:PHE:CZ	1:B:728:TYR:HB2	2.57	0.40
1:B:683:THR:HB	1:B:714:PHE:CB	2.44	0.40
1:B:1037:ASN:ND2	2:H:1011:GLN:HG2	2.35	0.40
1:B:1229:THR:HG23	1:D:1236:TYR:OH	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:486:VAL:HG22	1:C:648:LEU:C	2.41	0.40
1:C:617:LEU:HD23	1:C:617:LEU:N	2.37	0.40
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.55	0.40
1:C:983:GLN:O	1:C:987:MET:HG3	2.21	0.40
1:C:1106:LEU:HD13	1:C:1142:LEU:HD13	2.03	0.40
1:C:1232:LEU:HD21	1:F:1232:LEU:HD11	2.03	0.40
1:C:1420:TYR:OH	1:F:1473:HIS:CE1	2.74	0.40
1:C:1554:LEU:HD23	1:C:1606:VAL:HG12	2.02	0.40
1:D:17:LEU:HD22	2:J:2041:PRO:HB3	2.02	0.40
1:D:538:ARG:CG	1:D:579:MET:HE3	2.51	0.40
1:D:799:LEU:HD11	1:D:821:LEU:HD22	2.02	0.40
1:E:14:LEU:HD13	1:E:18:LEU:HG	2.02	0.40
1:E:683:THR:HG21	1:E:725:LEU:HD11	2.04	0.40
1:E:1581:LEU:HD23	1:E:1581:LEU:HA	1.90	0.40
1:E:1685:ALA:HB1	1:E:1686:PRO:HD2	2.04	0.40
1:F:36:LEU:O	1:F:76:ARG:NH2	2.53	0.40
1:F:444:LEU:HD22	1:F:448:MET:CG	2.52	0.40
1:F:490:VAL:HG12	1:F:490:VAL:O	2.21	0.40
1:F:511:VAL:HG12	1:F:512:PRO:HD2	2.02	0.40
1:F:943:VAL:HG12	1:F:944:ASN:OD1	2.22	0.40
1:F:1262:VAL:HG12	1:F:1267:LEU:HD21	2.03	0.40
1:F:1615:ASP:N	1:F:1615:ASP:OD1	2.55	0.40
2:G:129:ILE:HG21	2:G:132:LYS:HG3	2.03	0.40
2:G:617:PHE:HD1	2:G:822:ALA:CA	2.35	0.40
2:G:730:ILE:O	2:G:733:ALA:HB3	2.21	0.40
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.52	0.40
2:G:1180:VAL:HG11	2:G:1187:PHE:CD2	2.57	0.40
2:G:1462:GLN:O	2:G:1466:VAL:HG23	2.21	0.40
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.22	0.40
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.01	0.40
2:H:489:GLU:HG2	2:H:492:ARG:NH1	2.37	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.82	0.40
2:H:741:LEU:O	2:H:741:LEU:CG	2.69	0.40
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.42	0.40
2:H:1092:ASN:HA	2:H:1095:ILE:CG1	2.46	0.40
2:H:1157:VAL:O	2:H:1161:MET:HG3	2.21	0.40
2:H:1204:VAL:HA	2:H:1218:SER:O	2.21	0.40
2:H:1632:VAL:HB	2:H:1685:VAL:HG22	2.02	0.40
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.40
2:I:769:ARG:HD3	2:I:769:ARG:HA	1.81	0.40
2:I:779:GLY:HA3	2:I:811:MET:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:834:ASP:O	2:I:836:PRO:HD3	2.20	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:I:1015:HIS:CD2	2:I:1019:LEU:HD11	2.56	0.40
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.03	0.40
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.56	0.40
2:J:356:LEU:HD23	2:J:356:LEU:HA	1.66	0.40
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.53	0.40
2:J:644:ALA:O	2:J:648:ILE:HG13	2.21	0.40
2:J:652:ILE:HG23	2:J:656:ARG:HB2	2.03	0.40
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.76	0.40
2:J:1084:LYS:HE3	2:J:1088:ASP:OD2	2.22	0.40
2:J:1276:GLU:HB3	2:J:1278:MET:CE	2.51	0.40
2:J:1333:GLU:HG3	2:J:1338:ARG:HD2	2.03	0.40
2:K:57:PRO:HG3	2:K:68:GLU:CG	2.41	0.40
2:K:197:VAL:HG11	2:K:259:ALA:HB1	2.03	0.40
2:K:769:ARG:HD3	2:K:769:ARG:HA	1.78	0.40
2:K:865:ILE:HG22	2:K:867:LYS:HG3	2.03	0.40
2:K:917:ARG:NH1	2:K:1057:TYR:OH	2.55	0.40
2:K:1009:ASN:HD22	2:K:1010:ALA:N	2.19	0.40
2:K:1064:THR:CG2	2:K:1065:CYS:N	2.84	0.40
2:K:1153:ASN:HD22	2:K:1153:ASN:HA	1.58	0.40
2:K:1374:VAL:CG2	2:K:1436:ARG:NE	2.85	0.40
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.44	0.40
2:K:1523:ILE:N	2:K:1523:ILE:HD12	2.36	0.40
2:K:1616:VAL:O	2:K:1620:VAL:HG23	2.21	0.40
2:K:1722:ALA:CB	2:K:1812:LEU:HD11	2.52	0.40
2:L:350:MET:SD	2:L:392:THR:CG2	3.10	0.40
2:L:867:LYS:NZ	2:L:1065:CYS:SG	2.90	0.40
2:L:1380:TYR:CD2	2:L:1380:TYR:N	2.89	0.40
2:L:1489:VAL:HB	2:L:1514:LEU:HB2	2.03	0.40
2:L:2044:THR:HG21	2:L:2054:TYR:OH	2.21	0.40
1:A:942:VAL:O	2:G:1536:HIS:HB2	2.21	0.40
1:A:1228:GLY:O	1:A:1232:LEU:HB2	2.22	0.40
1:B:29:ILE:HG22	1:B:30:GLU:N	2.37	0.40
1:B:701:ARG:NH1	1:B:1610:ARG:HH21	2.19	0.40
1:B:755:GLU:C	1:B:757:ASP:N	2.75	0.40
1:B:1030:TRP:CE2	1:B:1673:LEU:HD22	2.57	0.40
1:B:1055:THR:C	1:B:1057:GLU:H	2.25	0.40
1:B:1638:HIS:CG	1:B:1639:PRO:HD2	2.55	0.40
1:C:454:HIS:CD2	1:C:454:HIS:N	2.89	0.40
1:C:511:VAL:CG1	1:C:512:PRO:HD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:LYS:HA	1:C:625:ASN:O	2.21	0.40
1:C:799:LEU:HD11	1:C:821:LEU:HD22	2.03	0.40
1:C:1301:VAL:HG23	1:C:1363:MET:CG	2.51	0.40
1:C:1589:ASN:OD1	1:C:1589:ASN:C	2.60	0.40
1:C:1638:HIS:ND1	1:C:1639:PRO:CD	2.84	0.40
1:D:1199:LEU:C	1:D:1201:SER:N	2.75	0.40
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.52	0.40
1:E:742:TYR:CE1	1:E:884:MET:HB3	2.57	0.40
1:E:921:GLU:HG3	1:E:922:ILE:N	2.37	0.40
1:E:1210:TYR:CE1	1:E:1215:LEU:HD23	2.57	0.40
1:F:46:GLU:HB3	1:F:80:CYS:HA	2.02	0.40
1:F:767:HIS:NE2	1:F:771:LEU:CD2	2.85	0.40
1:F:1426:GLU:HA	1:F:1429:ARG:HG3	2.03	0.40
1:F:1447:VAL:HG21	1:F:1467:LEU:HD11	2.02	0.40
1:F:1638:HIS:CG	1:F:1639:PRO:HD2	2.56	0.40
2:G:353:ILE:O	2:G:353:ILE:HG22	2.22	0.40
2:G:626:TYR:OH	2:G:1088:ASP:HA	2.22	0.40
2:G:1064:THR:CG2	2:G:1065:CYS:N	2.84	0.40
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.56	0.40
2:G:1835:GLY:HA3	2:G:1840:GLU:N	2.37	0.40
2:H:440:HIS:HD2	2:H:497:ASP:O	2.03	0.40
2:H:1180:VAL:HG11	2:H:1187:PHE:CD2	2.56	0.40
2:H:1217:ILE:H	2:H:1217:ILE:HG13	1.76	0.40
2:H:1712:SER:HA	2:H:1713:PRO:HD3	1.91	0.40
2:H:1795:SER:HA	2:H:1796:PRO:HD3	1.95	0.40
2:H:1944:ASN:HA	2:H:1993:PHE:CE1	2.56	0.40
2:I:186:LEU:HD23	2:I:186:LEU:HA	1.79	0.40
2:I:376:ARG:HA	2:I:443:TYR:OH	2.20	0.40
2:I:666:ASN:N	2:I:667:PRO:HD3	2.37	0.40
2:I:689:GLY:HA3	2:I:713:HIS:CE1	2.56	0.40
2:I:731:ALA:HB1	2:I:771:CYS:SG	2.62	0.40
2:I:1000:TYR:HA	2:I:1001:PRO:HD2	1.79	0.40
2:I:1299:VAL:O	2:I:1301:PHE:HD2	2.05	0.40
2:I:1741:ASN:HD21	2:I:1798:GLY:HA3	1.86	0.40
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.52	0.40
2:I:1947:LYS:HE3	2:I:1948:MET:HE3	2.02	0.40
2:J:549:ASN:HD22	2:J:549:ASN:C	2.25	0.40
2:J:608:MET:HB3	2:J:608:MET:HE2	1.93	0.40
2:J:625:GLY:C	2:J:656:ARG:HH22	2.25	0.40
2:J:787:ASP:O	2:J:790:PRO:HD2	2.22	0.40
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1266:HIS:C	2:J:1268:GLU:H	2.24	0.40
2:J:1305:LEU:HD23	2:J:1366:ILE:CD1	2.52	0.40
2:J:1915:LEU:HD13	2:J:1936:LEU:HD22	2.03	0.40
2:K:92:GLU:C	2:K:94:ALA:H	2.24	0.40
2:K:276:LEU:HD23	2:K:276:LEU:O	2.21	0.40
2:K:608:MET:HA	3:K:2101:FMN:N5	2.36	0.40
2:K:829:LYS:O	2:K:832:ILE:HB	2.22	0.40
2:K:1199:THR:CG2	2:K:1200:ARG:N	2.85	0.40
2:K:1250:ARG:NH1	2:K:1592:VAL:HG12	2.37	0.40
2:K:1366:ILE:HG22	2:K:1366:ILE:O	2.21	0.40
2:K:1804:GLN:O	2:K:1861:PHE:HD1	2.05	0.40
2:L:221:TYR:HE1	2:L:320:LEU:CD1	2.29	0.40
2:L:270:ARG:HB3	2:L:274:GLU:HB2	2.03	0.40
2:L:606:ALA:HB2	2:L:811:MET:HG3	2.04	0.40
2:L:764:MET:O	2:L:765:TYR:C	2.60	0.40
2:L:1374:VAL:HG22	2:L:1436:ARG:HE	1.85	0.40
2:L:1406:ASN:HB3	2:L:1411:LYS:HG3	2.03	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1527:SER:O	2:K:19:GLN:NE2[2_646]	2.09	0.11
1:B:1452:SER:O	2:G:1092:ASN:ND2[1_556]	2.15	0.05

## 5.3 Torsion angles [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%)	1291 (89%)	148 (10%)	12 (1%)	19 54
1	B	1458/1878 (78%)	1295 (89%)	151 (10%)	12 (1%)	19 54

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

All (241) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

### 5.3.2 Protein sidechains [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%)	1101 (90%)	119 (10%)	8	29
1	B	1227/1527 (80%)	1111 (90%)	116 (10%)	8	31
1	C	1225/1527 (80%)	1102 (90%)	123 (10%)	7	28
1	D	1229/1527 (80%)	1110 (90%)	119 (10%)	8	30
1	E	1219/1527 (80%)	1101 (90%)	118 (10%)	8	30
1	F	1224/1527 (80%)	1109 (91%)	115 (9%)	8	32
2	G	1752/1752 (100%)	1571 (90%)	181 (10%)	7	27
2	H	1752/1752 (100%)	1579 (90%)	173 (10%)	8	29
2	I	1752/1752 (100%)	1571 (90%)	181 (10%)	7	27
2	J	1752/1752 (100%)	1573 (90%)	179 (10%)	7	27
2	K	1752/1752 (100%)	1575 (90%)	177 (10%)	7	28
2	L	1752/1752 (100%)	1576 (90%)	176 (10%)	7	28
All	All	17856/19674 (91%)	16079 (90%)	1777 (10%)	7	28

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

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

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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	813	LEU
1	A	815	SER
1	A	817	SER
1	A	837	LEU
1	A	843	VAL
1	A	848	ARG
1	A	856	ASN
1	A	874	GLN
1	A	883	LEU
1	A	919	ARG
1	A	921	GLU
1	A	946	GLU
1	A	970	LEU
1	A	995	VAL
1	A	999	LEU
1	A	1011	ARG
1	A	1039	ASN
1	A	1042	LEU
1	A	1055	THR
1	A	1061	ASP
1	A	1071	TYR
1	A	1079	ARG
1	A	1093	ARG
1	A	1131	GLU
1	A	1160	VAL
1	A	1183	VAL
1	A	1186	VAL
1	A	1220	ASN
1	A	1226	VAL
1	A	1232	LEU
1	A	1258	MET
1	A	1267	LEU
1	A	1308	ASP
1	A	1313	GLU
1	A	1324	THR
1	A	1340	MET
1	A	1342	ARG
1	A	1344	THR
1	A	1347	THR
1	A	1352	MET
1	A	1353	GLU
1	A	1357	CYS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	75	GLN
1	F	339	GLN
1	F	404	ASN
1	F	408	GLN
1	F	449	GLN
1	F	454	HIS
1	F	542	GLN
1	F	583	GLN
1	F	671	GLN
1	F	715	ASN
1	F	873	GLN
1	F	874	GLN
1	F	1037	ASN
1	F	1075	HIS
1	F	1137	GLN
1	F	1214	HIS
1	F	1220	ASN
1	F	1263	ASN
1	F	1311	GLN
1	F	1320	ASN
1	F	1410	ASN
1	F	1473	HIS
1	F	1486	GLN
1	F	1491	ASN
1	F	1558	GLN
1	F	1591	ASN
1	F	1633	GLN
1	F	1662	GLN
1	F	1692	GLN
2	G	28	HIS
2	G	44	GLN
2	G	166	ASN
2	G	232	HIS
2	G	260	HIS
2	G	285	HIS
2	G	287	GLN
2	G	388	ASN
2	G	416	GLN
2	G	448	HIS
2	G	500	ASN
2	G	512	HIS
2	G	529	ASN

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

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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	44	GLN
2	I	166	ASN
2	I	232	HIS
2	I	260	HIS
2	I	285	HIS
2	I	287	GLN
2	I	388	ASN
2	I	416	GLN
2	I	448	HIS
2	I	500	ASN
2	I	512	HIS
2	I	529	ASN
2	I	549	ASN
2	I	627	HIS
2	I	661	ASN
2	I	713	HIS
2	I	725	GLN
2	I	729	ASN
2	I	734	ASN
2	I	752	HIS
2	I	758	HIS
2	I	823	HIS
2	I	827	GLN
2	I	845	ASN
2	I	911	GLN
2	I	1006	GLN
2	I	1009	ASN
2	I	1094	HIS
2	I	1153	ASN
2	I	1173	HIS
2	I	1378	ASN
2	I	1400	GLN
2	I	1455	GLN
2	I	1462	GLN
2	I	1479	HIS
2	I	1608	HIS
2	I	1628	ASN
2	I	1638	ASN
2	I	1646	ASN
2	I	1697	GLN
2	I	1702	GLN
2	I	1725	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	1804	GLN
2	I	1901	GLN
2	I	1919	ASN
2	I	2006	HIS
2	J	28	HIS
2	J	44	GLN
2	J	166	ASN
2	J	232	HIS
2	J	260	HIS
2	J	285	HIS
2	J	287	GLN
2	J	371	HIS
2	J	388	ASN
2	J	416	GLN
2	J	448	HIS
2	J	500	ASN
2	J	512	HIS
2	J	529	ASN
2	J	549	ASN
2	J	627	HIS
2	J	661	ASN
2	J	713	HIS
2	J	725	GLN
2	J	729	ASN
2	J	734	ASN
2	J	752	HIS
2	J	758	HIS
2	J	823	HIS
2	J	827	GLN
2	J	845	ASN
2	J	911	GLN
2	J	1006	GLN
2	J	1009	ASN
2	J	1094	HIS
2	J	1153	ASN
2	J	1173	HIS
2	J	1378	ASN
2	J	1400	GLN
2	J	1455	GLN
2	J	1462	GLN
2	J	1479	HIS
2	J	1608	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	J	1628	ASN
2	J	1638	ASN
2	J	1646	ASN
2	J	1687	GLN
2	J	1697	GLN
2	J	1702	GLN
2	J	1725	HIS
2	J	1804	GLN
2	J	1901	GLN
2	J	1919	ASN
2	J	2006	HIS
2	J	2042	ASN
2	K	28	HIS
2	K	44	GLN
2	K	166	ASN
2	K	232	HIS
2	K	260	HIS
2	K	285	HIS
2	K	287	GLN
2	K	388	ASN
2	K	416	GLN
2	K	448	HIS
2	K	500	ASN
2	K	512	HIS
2	K	529	ASN
2	K	549	ASN
2	K	627	HIS
2	K	661	ASN
2	K	713	HIS
2	K	725	GLN
2	K	729	ASN
2	K	734	ASN
2	K	758	HIS
2	K	823	HIS
2	K	827	GLN
2	K	845	ASN
2	K	911	GLN
2	K	1006	GLN
2	K	1094	HIS
2	K	1153	ASN
2	K	1173	HIS
2	K	1330	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	K	1378	ASN
2	K	1400	GLN
2	K	1455	GLN
2	K	1462	GLN
2	K	1479	HIS
2	K	1608	HIS
2	K	1628	ASN
2	K	1638	ASN
2	K	1646	ASN
2	K	1687	GLN
2	K	1697	GLN
2	K	1702	GLN
2	K	1725	HIS
2	K	1804	GLN
2	K	1901	GLN
2	K	1919	ASN
2	K	2006	HIS
2	L	28	HIS
2	L	44	GLN
2	L	166	ASN
2	L	232	HIS
2	L	260	HIS
2	L	285	HIS
2	L	287	GLN
2	L	371	HIS
2	L	388	ASN
2	L	416	GLN
2	L	448	HIS
2	L	500	ASN
2	L	512	HIS
2	L	529	ASN
2	L	549	ASN
2	L	627	HIS
2	L	661	ASN
2	L	713	HIS
2	L	725	GLN
2	L	729	ASN
2	L	734	ASN
2	L	758	HIS
2	L	823	HIS
2	L	827	GLN
2	L	845	ASN

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

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	FMN	G	2101	-	33,33,33	6.29	24 (72%)	48,50,50	1.39	10 (20%)
3	FMN	H	2101	-	33,33,33	6.29	22 (66%)	48,50,50	1.33	8 (16%)
3	FMN	L	2101	-	33,33,33	6.24	22 (66%)	48,50,50	1.35	10 (20%)
3	FMN	K	2101	-	33,33,33	6.52	24 (72%)	48,50,50	1.46	11 (22%)
3	FMN	J	2101	-	33,33,33	6.49	24 (72%)	48,50,50	1.38	11 (22%)
3	FMN	I	2101	-	33,33,33	6.28	22 (66%)	48,50,50	1.41	9 (18%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FMN	G	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	H	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	L	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	K	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	J	2101	-	-	5/18/18/18	0/3/3/3
3	FMN	I	2101	-	-	5/18/18/18	0/3/3/3

All (138) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C9-C9A	12.79	1.60	1.39
3	J	2101	FMN	C9-C9A	12.76	1.60	1.39
3	K	2101	FMN	C6-C7	12.73	1.58	1.39
3	I	2101	FMN	C9-C9A	12.62	1.60	1.39
3	J	2101	FMN	C6-C7	12.52	1.57	1.39
3	H	2101	FMN	C9-C9A	12.51	1.60	1.39
3	L	2101	FMN	C9-C9A	12.49	1.59	1.39
3	H	2101	FMN	C6-C7	12.47	1.57	1.39
3	G	2101	FMN	C6-C7	12.37	1.57	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	2101	FMN	C9-C9A	12.24	1.59	1.39
3	J	2101	FMN	C6-C5A	12.22	1.59	1.40
3	K	2101	FMN	C6-C5A	12.19	1.59	1.40
3	I	2101	FMN	C6-C7	12.06	1.57	1.39
3	I	2101	FMN	C6-C5A	11.97	1.58	1.40
3	L	2101	FMN	C6-C7	11.94	1.57	1.39
3	H	2101	FMN	C6-C5A	11.91	1.58	1.40
3	G	2101	FMN	C6-C5A	11.79	1.58	1.40
3	L	2101	FMN	C6-C5A	11.77	1.58	1.40
3	K	2101	FMN	C9-C8	11.66	1.56	1.39
3	J	2101	FMN	C9-C8	11.63	1.56	1.39
3	I	2101	FMN	C9-C8	11.44	1.56	1.39
3	H	2101	FMN	C9-C8	11.25	1.56	1.39
3	G	2101	FMN	C9-C8	11.22	1.56	1.39
3	K	2101	FMN	C4A-N5	10.83	1.51	1.30
3	L	2101	FMN	C9-C8	10.82	1.55	1.39
3	J	2101	FMN	C4A-N5	10.75	1.51	1.30
3	L	2101	FMN	C4A-N5	10.57	1.51	1.30
3	H	2101	FMN	C4A-N5	10.54	1.51	1.30
3	G	2101	FMN	C4A-N5	10.45	1.51	1.30
3	I	2101	FMN	C4A-N5	10.28	1.50	1.30
3	J	2101	FMN	O4-C4	9.67	1.42	1.23
3	G	2101	FMN	O2-C2	9.40	1.41	1.24
3	K	2101	FMN	O2-C2	9.39	1.41	1.24
3	L	2101	FMN	O4-C4	9.36	1.41	1.23
3	K	2101	FMN	O4-C4	9.23	1.41	1.23
3	I	2101	FMN	O4-C4	9.11	1.40	1.23
3	H	2101	FMN	O4-C4	9.11	1.40	1.23
3	L	2101	FMN	O2-C2	9.05	1.41	1.24
3	G	2101	FMN	O4-C4	9.04	1.40	1.23
3	J	2101	FMN	O2-C2	9.01	1.40	1.24
3	I	2101	FMN	O2-C2	8.97	1.40	1.24
3	H	2101	FMN	O2-C2	8.85	1.40	1.24
3	J	2101	FMN	C9A-C5A	8.67	1.55	1.41
3	K	2101	FMN	C9A-C5A	8.20	1.54	1.41
3	I	2101	FMN	C9A-C5A	8.11	1.54	1.41
3	L	2101	FMN	C9A-C5A	8.09	1.54	1.41
3	H	2101	FMN	C9A-C5A	8.02	1.54	1.41
3	K	2101	FMN	C10-N1	7.96	1.49	1.33
3	G	2101	FMN	C9A-C5A	7.93	1.54	1.41
3	K	2101	FMN	C2-N1	7.84	1.55	1.36
3	G	2101	FMN	C2-N1	7.71	1.55	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	2101	FMN	C10-N1	7.69	1.49	1.33
3	J	2101	FMN	C10-N1	7.53	1.48	1.33
3	K	2101	FMN	C10-N10	7.52	1.53	1.37
3	I	2101	FMN	C10-N1	7.52	1.48	1.33
3	J	2101	FMN	C2-N1	7.45	1.54	1.36
3	H	2101	FMN	C10-N1	7.39	1.48	1.33
3	L	2101	FMN	C2-N1	7.39	1.54	1.36
3	I	2101	FMN	C2-N1	7.35	1.54	1.36
3	L	2101	FMN	C10-N1	7.34	1.48	1.33
3	J	2101	FMN	C8-C7	7.29	1.59	1.40
3	H	2101	FMN	C2-N1	7.18	1.53	1.36
3	J	2101	FMN	C10-N10	7.18	1.53	1.37
3	G	2101	FMN	C10-N10	7.08	1.52	1.37
3	K	2101	FMN	C8-C7	7.07	1.58	1.40
3	I	2101	FMN	C10-N10	7.06	1.52	1.37
3	L	2101	FMN	C10-N10	6.99	1.52	1.37
3	H	2101	FMN	C10-N10	6.96	1.52	1.37
3	I	2101	FMN	C8-C7	6.73	1.57	1.40
3	H	2101	FMN	C8-C7	6.61	1.57	1.40
3	L	2101	FMN	C8-C7	6.59	1.57	1.40
3	G	2101	FMN	C8-C7	6.48	1.57	1.40
3	K	2101	FMN	C5A-N5	6.25	1.51	1.39
3	J	2101	FMN	C5A-N5	6.17	1.51	1.39
3	J	2101	FMN	C4-N3	6.11	1.50	1.38
3	H	2101	FMN	C5A-N5	6.08	1.51	1.39
3	I	2101	FMN	C5A-N5	6.04	1.51	1.39
3	K	2101	FMN	C4-N3	6.02	1.50	1.38
3	L	2101	FMN	C5A-N5	5.96	1.51	1.39
3	G	2101	FMN	C5A-N5	5.94	1.50	1.39
3	I	2101	FMN	C4-N3	5.90	1.49	1.38
3	L	2101	FMN	C4-N3	5.88	1.49	1.38
3	G	2101	FMN	C4-N3	5.83	1.49	1.38
3	H	2101	FMN	C4-N3	5.78	1.49	1.38
3	J	2101	FMN	C2-N3	5.68	1.52	1.39
3	I	2101	FMN	C2-N3	5.57	1.52	1.39
3	G	2101	FMN	C2-N3	5.57	1.52	1.39
3	L	2101	FMN	C2-N3	5.55	1.51	1.39
3	K	2101	FMN	C2-N3	5.55	1.51	1.39
3	H	2101	FMN	C2-N3	5.44	1.51	1.39
3	I	2101	FMN	C9A-N10	5.20	1.50	1.41
3	L	2101	FMN	C9A-N10	5.17	1.50	1.41
3	H	2101	FMN	C9A-N10	5.13	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	2101	FMN	C9A-N10	5.02	1.50	1.41
3	K	2101	FMN	C9A-N10	5.02	1.50	1.41
3	G	2101	FMN	C9A-N10	4.89	1.49	1.41
3	J	2101	FMN	C4A-C10	3.68	1.55	1.44
3	K	2101	FMN	C4A-C10	3.49	1.54	1.44
3	I	2101	FMN	C4A-C10	3.42	1.54	1.44
3	G	2101	FMN	C4A-C10	3.40	1.54	1.44
3	L	2101	FMN	C4A-C10	3.33	1.54	1.44
3	H	2101	FMN	C4A-C10	3.29	1.53	1.44
3	J	2101	FMN	C5'-C4'	3.14	1.56	1.51
3	G	2101	FMN	P-O2P	3.07	1.66	1.54
3	J	2101	FMN	P-O3P	3.05	1.66	1.54
3	K	2101	FMN	P-O3P	2.99	1.66	1.54
3	K	2101	FMN	P-O2P	2.96	1.66	1.54
3	H	2101	FMN	P-O2P	2.96	1.66	1.54
3	H	2101	FMN	C5'-C4'	2.92	1.55	1.51
3	L	2101	FMN	P-O2P	2.89	1.66	1.54
3	K	2101	FMN	C1'-C2'	2.76	1.56	1.52
3	J	2101	FMN	P-O2P	2.75	1.65	1.54
3	I	2101	FMN	P-O2P	2.74	1.65	1.54
3	K	2101	FMN	C5'-C4'	2.74	1.55	1.51
3	G	2101	FMN	P-O3P	2.73	1.65	1.54
3	H	2101	FMN	P-O3P	2.72	1.65	1.54
3	I	2101	FMN	P-O3P	2.69	1.65	1.54
3	L	2101	FMN	P-O3P	2.56	1.64	1.54
3	K	2101	FMN	C4A-C4	2.50	1.53	1.44
3	J	2101	FMN	C4A-C4	2.42	1.53	1.44
3	K	2101	FMN	P-O5'	2.36	1.67	1.60
3	G	2101	FMN	C1'-C2'	2.34	1.56	1.52
3	G	2101	FMN	C5'-C4'	2.33	1.55	1.51
3	G	2101	FMN	C4A-C4	2.31	1.53	1.44
3	L	2101	FMN	C4A-C4	2.30	1.53	1.44
3	J	2101	FMN	C1'-C2'	2.30	1.55	1.52
3	K	2101	FMN	C7M-C7	2.27	1.55	1.51
3	I	2101	FMN	C4A-C4	2.22	1.52	1.44
3	H	2101	FMN	C7M-C7	2.18	1.55	1.51
3	L	2101	FMN	C5'-C4'	2.14	1.54	1.51
3	I	2101	FMN	C8M-C8	2.11	1.55	1.51
3	J	2101	FMN	C8M-C8	2.10	1.55	1.51
3	J	2101	FMN	C7M-C7	2.10	1.55	1.51
3	H	2101	FMN	C4A-C4	2.09	1.52	1.44
3	L	2101	FMN	C1'-C2'	2.09	1.55	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	2101	FMN	C8M-C8	2.08	1.55	1.51
3	I	2101	FMN	C5'-C4'	2.05	1.54	1.51
3	G	2101	FMN	C7M-C7	2.04	1.55	1.51

All (59) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	2101	FMN	C9A-C5A-N5	-3.22	118.93	122.43
3	I	2101	FMN	C9A-C5A-N5	-3.12	119.05	122.43
3	K	2101	FMN	C4-N3-C2	-3.11	119.90	125.64
3	L	2101	FMN	C9A-C5A-N5	-3.09	119.08	122.43
3	J	2101	FMN	C9A-C5A-N5	-3.06	119.11	122.43
3	G	2101	FMN	C4-N3-C2	-3.03	120.03	125.64
3	K	2101	FMN	C4A-C4-N3	3.01	120.84	113.19
3	G	2101	FMN	C4A-C4-N3	2.99	120.80	113.19
3	K	2101	FMN	C9A-C5A-N5	-2.98	119.19	122.43
3	L	2101	FMN	C4-N3-C2	-2.94	120.22	125.64
3	I	2101	FMN	C4-N3-C2	-2.92	120.25	125.64
3	I	2101	FMN	C5A-C9A-N10	2.90	120.95	117.95
3	J	2101	FMN	C1'-N10-C9A	-2.85	115.76	120.51
3	H	2101	FMN	C4-N3-C2	-2.83	120.42	125.64
3	G	2101	FMN	C9A-C5A-N5	-2.71	119.48	122.43
3	J	2101	FMN	C4-N3-C2	-2.71	120.64	125.64
3	K	2101	FMN	C1'-N10-C9A	-2.70	116.01	120.51
3	H	2101	FMN	C4A-C4-N3	2.66	119.93	113.19
3	J	2101	FMN	C5A-C9A-N10	2.64	120.68	117.95
3	I	2101	FMN	C4A-C4-N3	2.63	119.88	113.19
3	K	2101	FMN	C4A-C10-N1	-2.62	118.66	124.73
3	L	2101	FMN	C4A-C4-N3	2.59	119.78	113.19
3	J	2101	FMN	C9-C9A-N10	-2.58	118.34	121.84
3	G	2101	FMN	C5A-C9A-N10	2.58	120.62	117.95
3	H	2101	FMN	C1'-N10-C9A	-2.55	116.27	120.51
3	H	2101	FMN	C5A-C9A-N10	2.49	120.53	117.95
3	I	2101	FMN	C9-C9A-N10	-2.49	118.47	121.84
3	L	2101	FMN	C5A-C9A-N10	2.46	120.49	117.95
3	G	2101	FMN	C4A-C10-N1	-2.45	119.04	124.73
3	L	2101	FMN	C1'-N10-C9A	-2.45	116.43	120.51
3	K	2101	FMN	O5'-P-O1P	2.40	113.20	106.47
3	G	2101	FMN	O4-C4-C4A	-2.40	120.24	126.60
3	H	2101	FMN	O4-C4-C4A	-2.39	120.27	126.60
3	I	2101	FMN	O4-C4-C4A	-2.38	120.28	126.60
3	G	2101	FMN	C9-C9A-N10	-2.38	118.62	121.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	2101	FMN	O4-C4-C4A	-2.38	120.30	126.60
3	I	2101	FMN	C1'-N10-C9A	-2.37	116.55	120.51
3	K	2101	FMN	C10-C4A-N5	-2.37	119.82	124.86
3	J	2101	FMN	O4-C4-C4A	-2.33	120.41	126.60
3	J	2101	FMN	C4A-C4-N3	2.32	119.07	113.19
3	J	2101	FMN	C4-C4A-C10	2.30	120.65	116.79
3	J	2101	FMN	C4A-C10-N1	-2.28	119.43	124.73
3	I	2101	FMN	C4A-C10-N1	-2.28	119.44	124.73
3	K	2101	FMN	C9-C9A-N10	-2.25	118.79	121.84
3	L	2101	FMN	C4A-C10-N1	-2.23	119.55	124.73
3	K	2101	FMN	C10-N1-C2	2.22	121.35	116.90
3	L	2101	FMN	O4-C4-C4A	-2.22	120.71	126.60
3	L	2101	FMN	C9-C9A-N10	-2.19	118.87	121.84
3	G	2101	FMN	C10-C4A-N5	-2.16	120.27	124.86
3	K	2101	FMN	C5A-C9A-N10	2.16	120.18	117.95
3	H	2101	FMN	C4A-C10-N1	-2.15	119.75	124.73
3	G	2101	FMN	C1'-N10-C9A	-2.15	116.93	120.51
3	G	2101	FMN	C10-N1-C2	2.11	121.12	116.90
3	L	2101	FMN	C10-C4A-N5	-2.08	120.44	124.86
3	H	2101	FMN	C9-C9A-N10	-2.07	119.04	121.84
3	L	2101	FMN	C4-C4A-C10	2.06	120.25	116.79
3	I	2101	FMN	C4-C4A-C10	2.05	120.24	116.79
3	J	2101	FMN	C10-C4A-N5	-2.04	120.52	124.86
3	J	2101	FMN	C4'-C3'-C2'	-2.00	109.20	113.36

There are no chirality outliers.

All (30) torsion outliers are listed below:

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

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

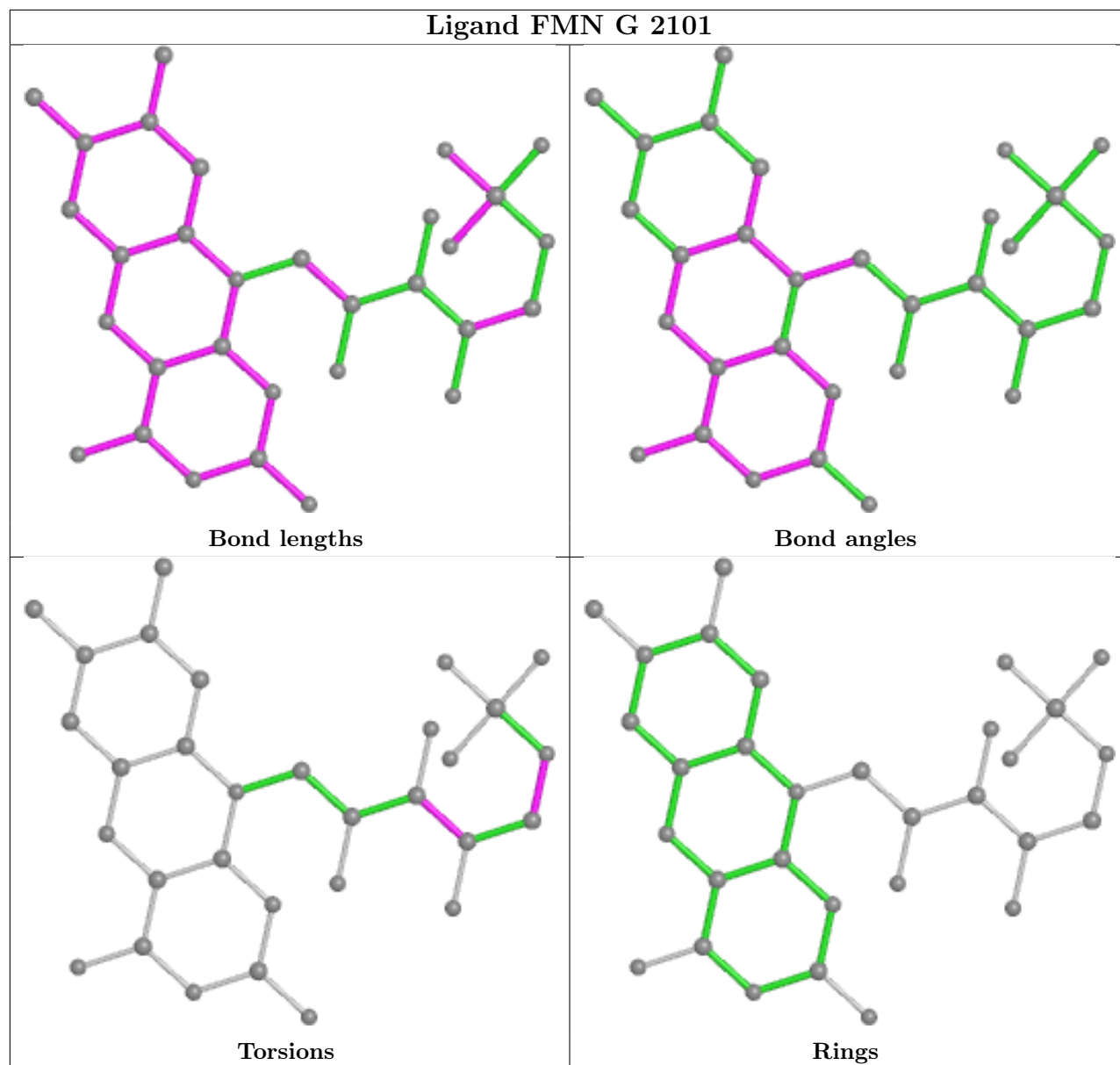
There are no ring outliers.

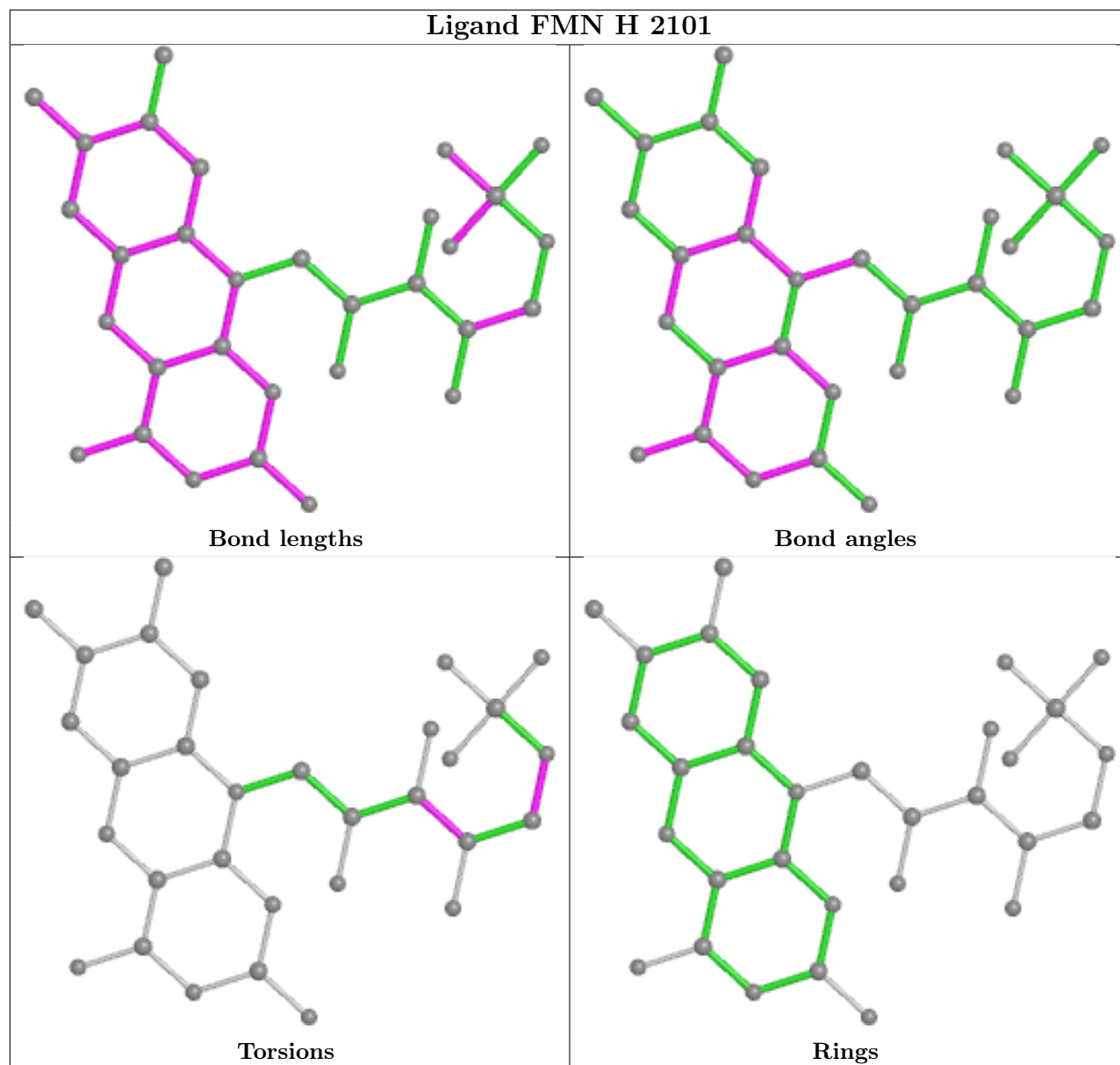
6 monomers are involved in 61 short contacts:

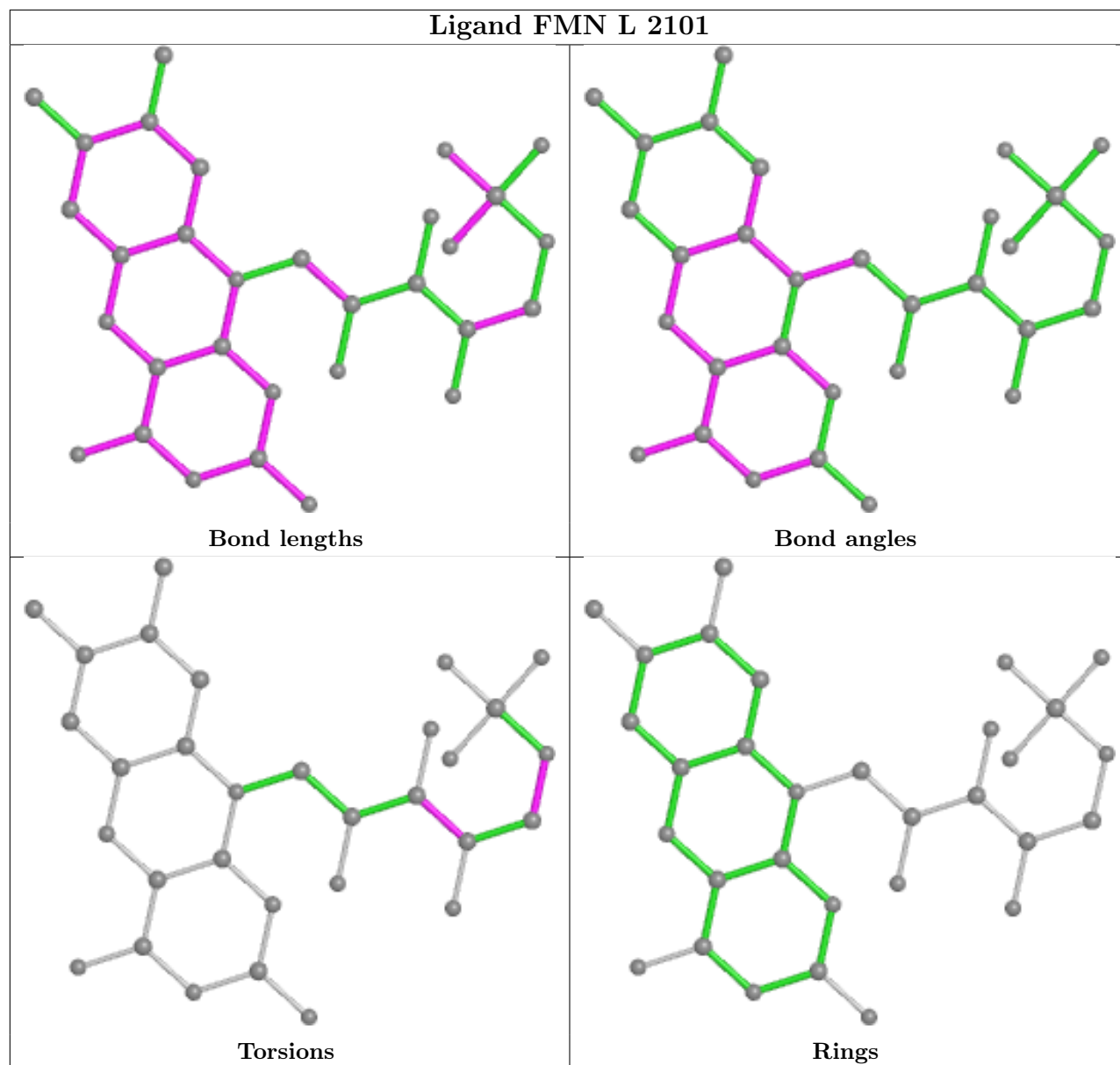
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	2101	FMN	10	0
3	H	2101	FMN	11	0
3	L	2101	FMN	10	0
3	K	2101	FMN	12	0
3	J	2101	FMN	9	0
3	I	2101	FMN	9	0

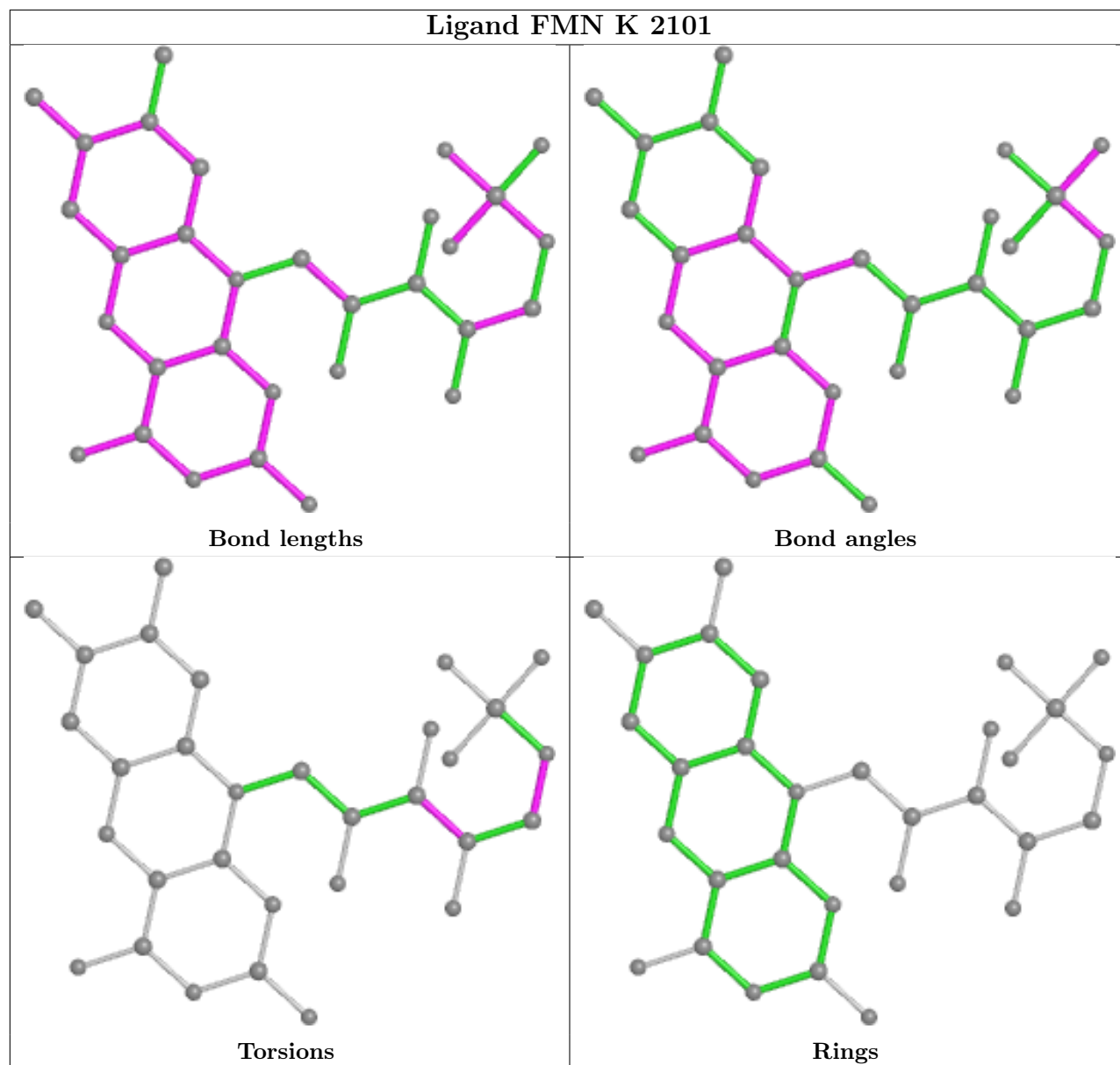
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

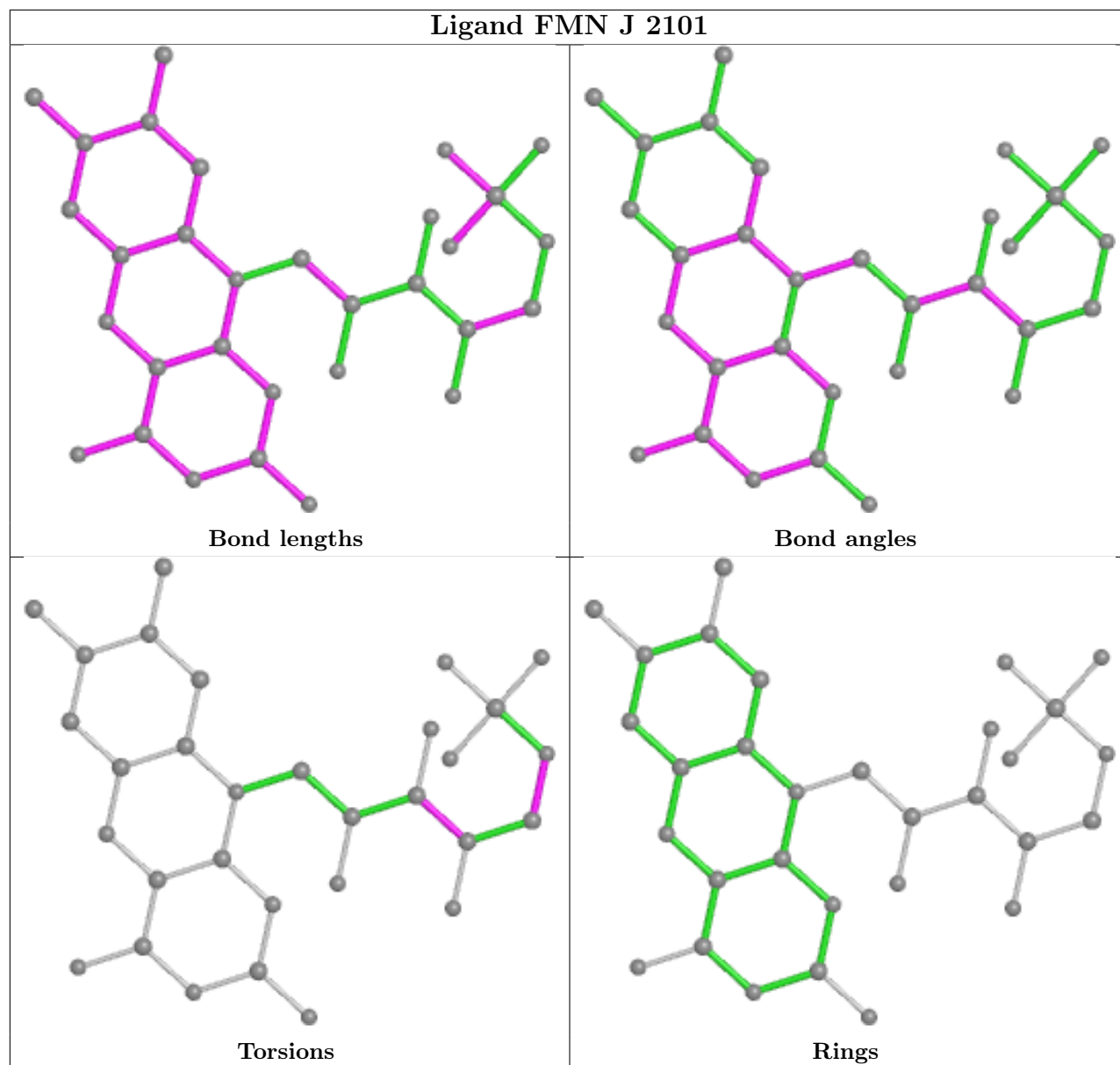


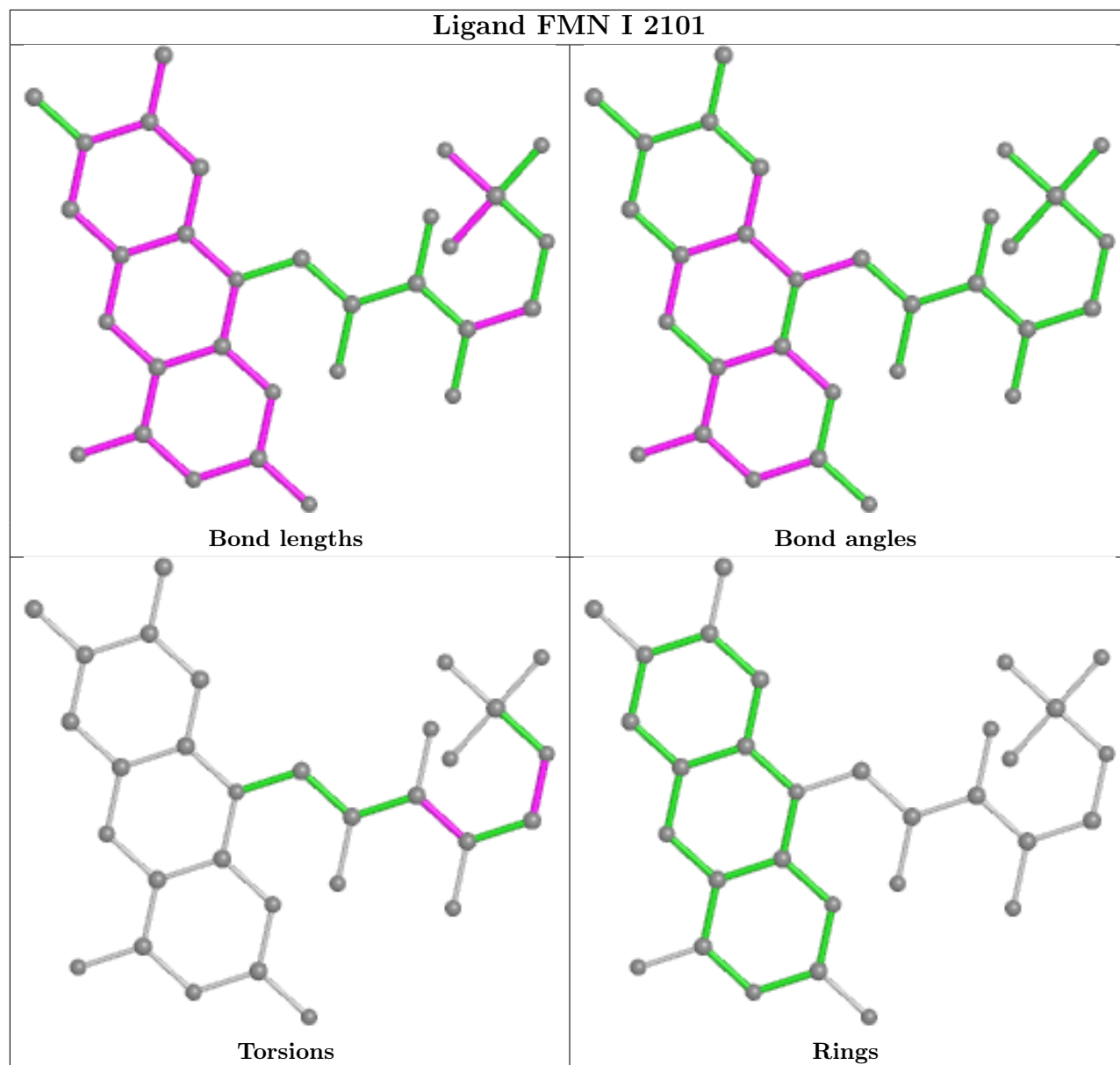












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	A	1457/1878 (77%)	-0.50	14 (0%) 82 67	17, 54, 105, 150	0
1	B	1464/1878 (77%)	-0.51	12 (0%) 86 72	16, 52, 111, 158	0
1	C	1462/1878 (77%)	-0.51	17 (1%) 79 61	15, 51, 111, 159	0
1	D	1467/1878 (78%)	-0.52	13 (0%) 84 69	16, 54, 108, 158	0
1	E	1456/1878 (77%)	-0.48	13 (0%) 84 69	15, 54, 110, 157	0
1	F	1461/1878 (77%)	-0.54	12 (0%) 86 72	16, 51, 108, 159	0
2	G	2060/2060 (100%)	-0.12	38 (1%) 68 47	27, 83, 129, 169	0
2	H	2060/2060 (100%)	-0.05	69 (3%) 46 24	24, 86, 132, 167	0
2	I	2060/2060 (100%)	-0.02	73 (3%) 44 23	23, 86, 132, 167	0
2	J	2060/2060 (100%)	0.03	66 (3%) 47 25	28, 89, 133, 172	0
2	K	2060/2060 (100%)	0.25	134 (6%) 18 8	27, 91, 136, 172	0
2	L	2060/2060 (100%)	0.01	76 (3%) 41 21	23, 87, 133, 172	0
All	All	21127/23628 (89%)	-0.20	537 (2%) 57 34	15, 75, 127, 172	0

All (537) RSRZ outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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Mol	Chain	Res	Type	RSRZ
2	K	1951	ILE	2.0
2	K	177	GLY	2.0
2	L	2076	LYS	2.0
2	K	1882	ALA	2.0
2	H	148	GLY	2.0
2	I	1137	ARG	2.0
2	I	1519	THR	2.0
1	A	1456	GLU	2.0
2	H	1916	GLU	2.0
2	L	44	GLN	2.0
2	K	88	ASP	2.0
2	K	1968	HIS	2.0
2	L	1969	LEU	2.0
2	H	152	LYS	2.0
2	H	53	LEU	2.0
2	H	1480	ASP	2.0
2	I	820	LYS	2.0
2	K	546	ASP	2.0
2	L	128	GLY	2.0
2	I	1986	PRO	2.0
2	I	1296	GLU	2.0
1	A	1454	ARG	2.0

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

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

## 6.3 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [\(i\)](#)

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

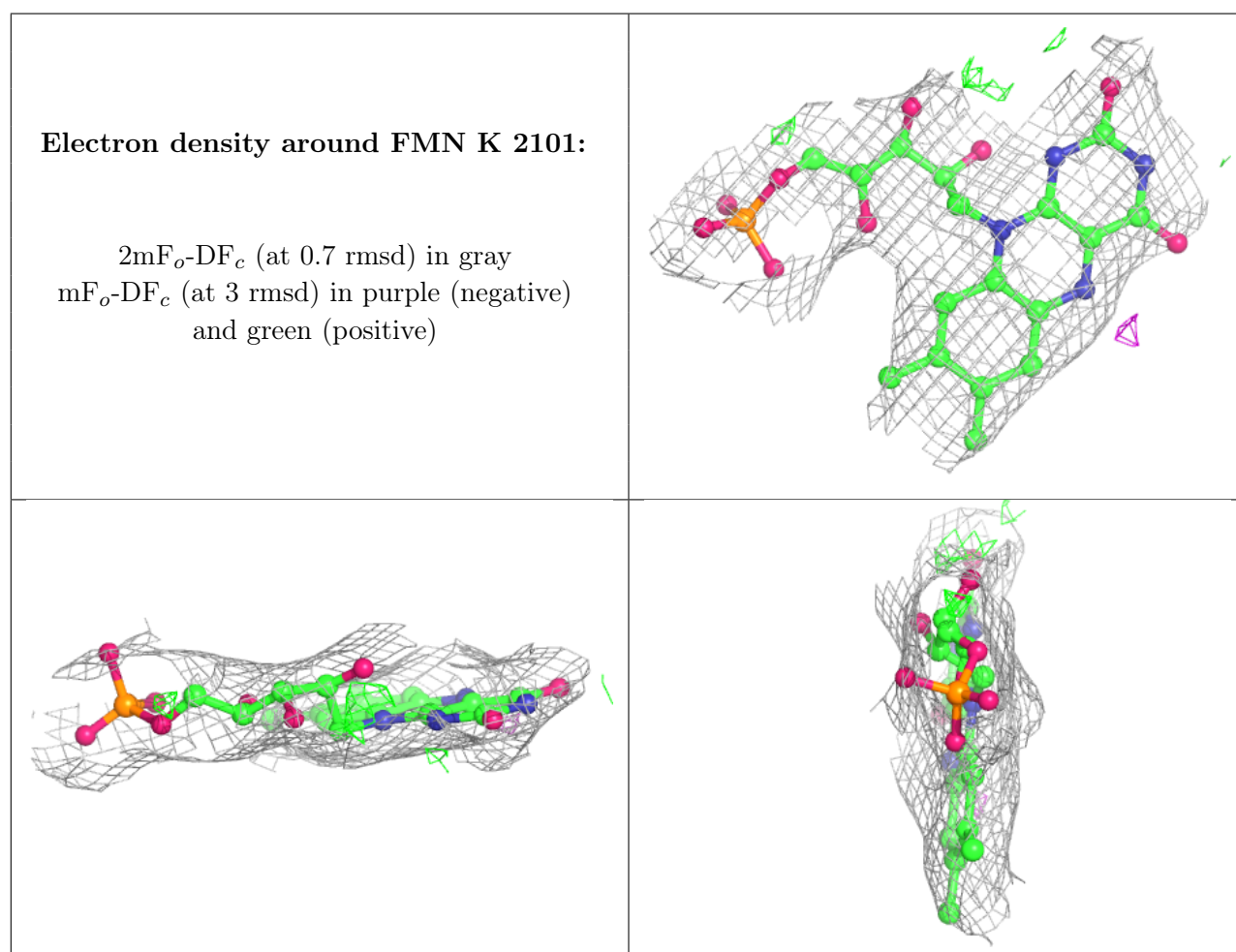
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	FMN	K	2101	31/31	0.90	0.19	24,63,111,122	0

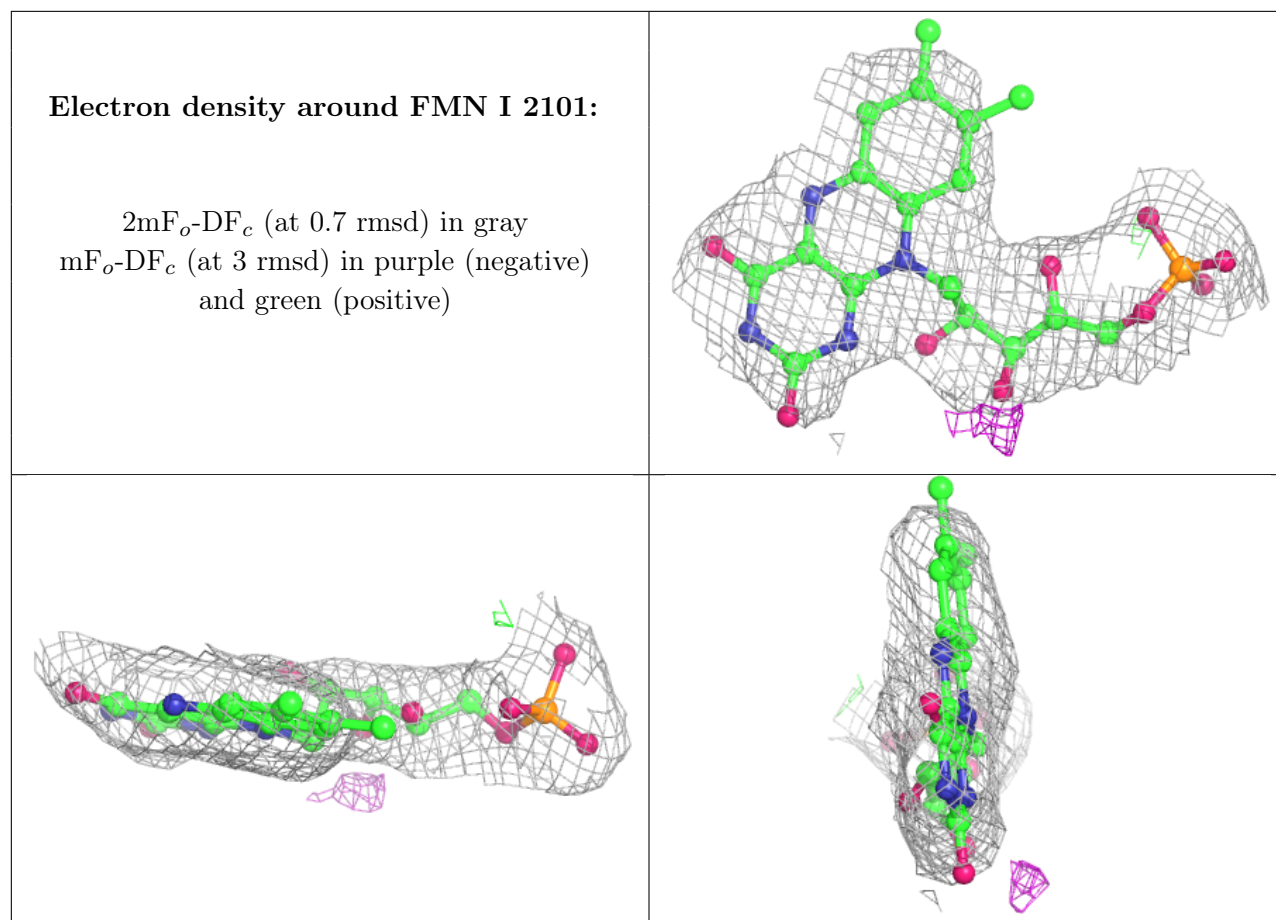
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	FMN	I	2101	31/31	0.93	0.18	23,54,85,115	0
3	FMN	G	2101	31/31	0.94	0.20	19,64,105,124	0
3	FMN	J	2101	31/31	0.94	0.15	19,56,106,122	0
3	FMN	H	2101	31/31	0.94	0.18	21,53,91,110	0
3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

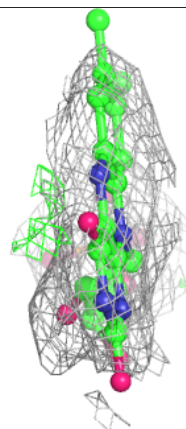
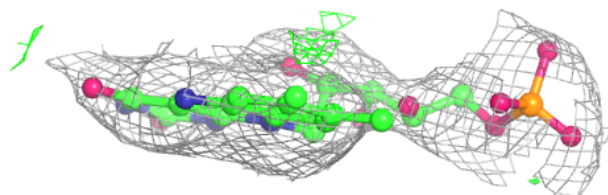
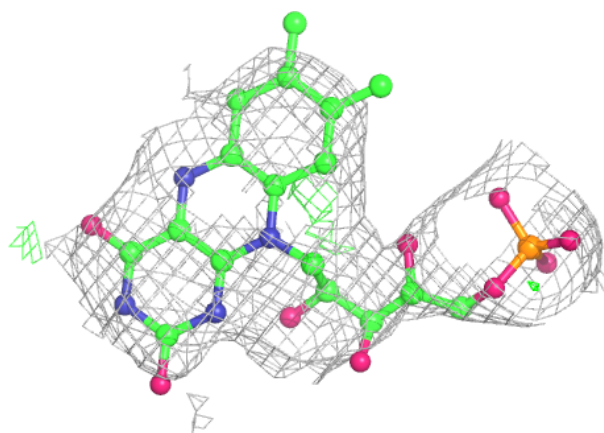
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



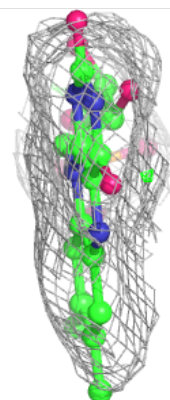
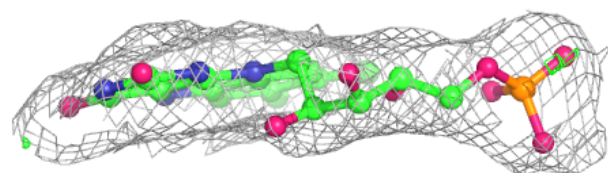
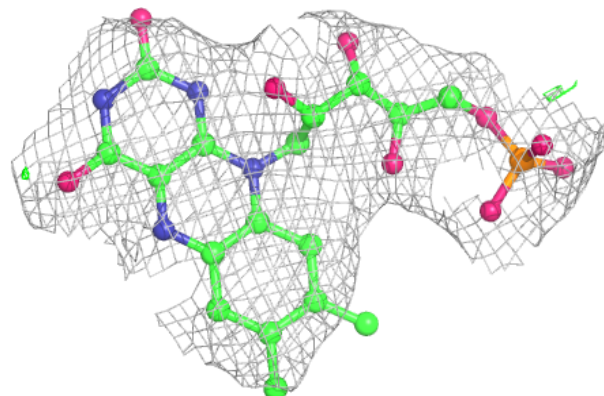


**Electron density around FMN G 2101:**

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

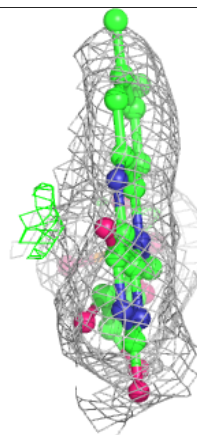
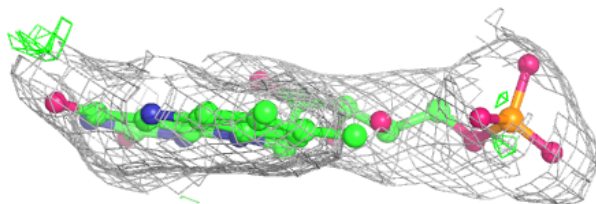
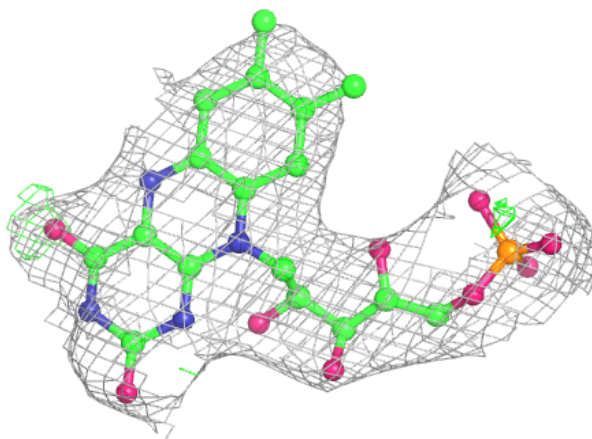
**Electron density around FMN J 2101:**

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

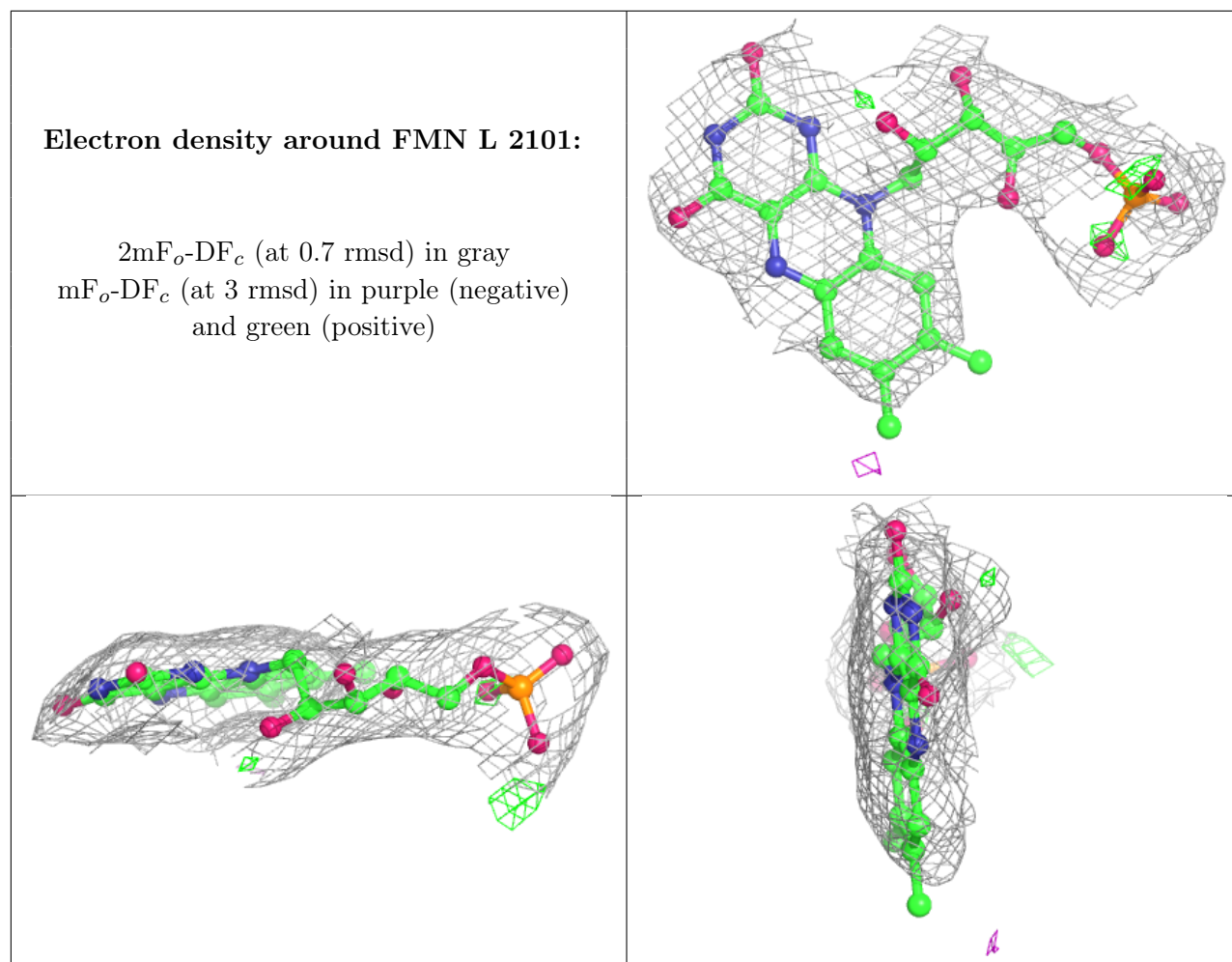


**Electron density around FMN H 2101:**

$2mF_o-DF_c$  (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.