



## Full wwPDB X-ray Structure Validation Report ⓘ

Feb 19, 2016 – 09:09 PM GMT

PDB ID : 4V59  
Title : Crystal structure of fatty acid synthase complexed with nadp+ from thermomyces lanuginosus at 3.1 angstrom resolution.  
Authors : JENNI, S.; LEIBUNDGUT, M.; BOEHRINGER, D.; FRICK, C.; MIKOLASEK, B.; BAN, N.  
Deposited on : 2007-03-09  
Resolution : 3.10 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.7.1 (RC1), CSD as537be (2016)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026982  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20026982

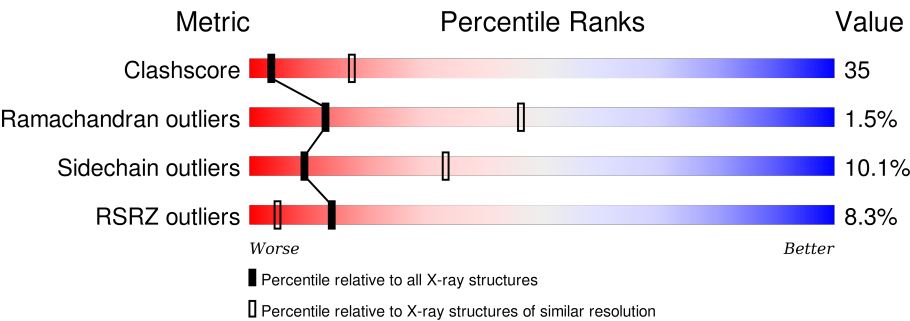
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.10 Å.

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



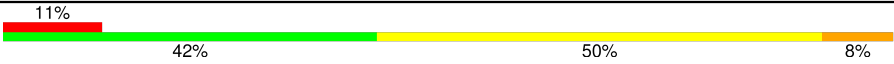

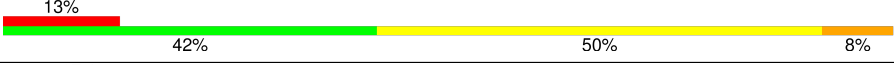
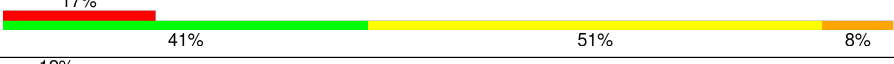

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	1222 (3.14-3.06)
Ramachandran outliers	100387	1174 (3.14-3.06)
Sidechain outliers	100360	1174 (3.14-3.06)
RSRZ outliers	91569	1119 (3.14-3.06)

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

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

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

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

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

## 2 Entry composition

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

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

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

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

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

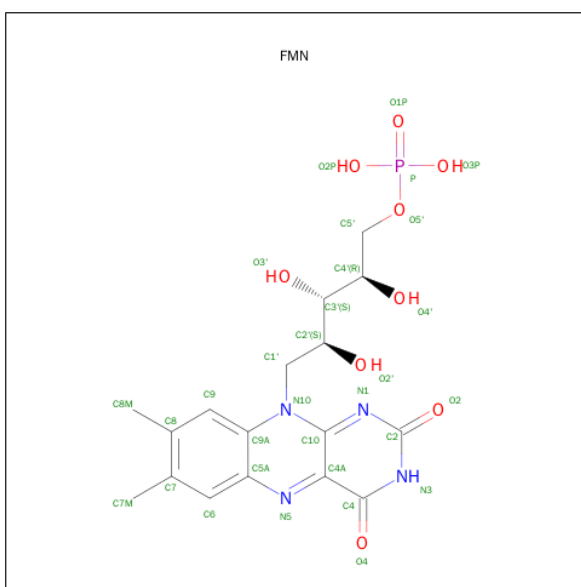
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	G	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	H	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	I	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	J	2060	Total	C	N	O	S	0	0	0
			16200	10314	2781	3051	54			
2	K	2060	Total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

- Molecule 3 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C<sub>21</sub>H<sub>28</sub>N<sub>7</sub>O<sub>17</sub>P<sub>3</sub>).



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

- Molecule 4 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).



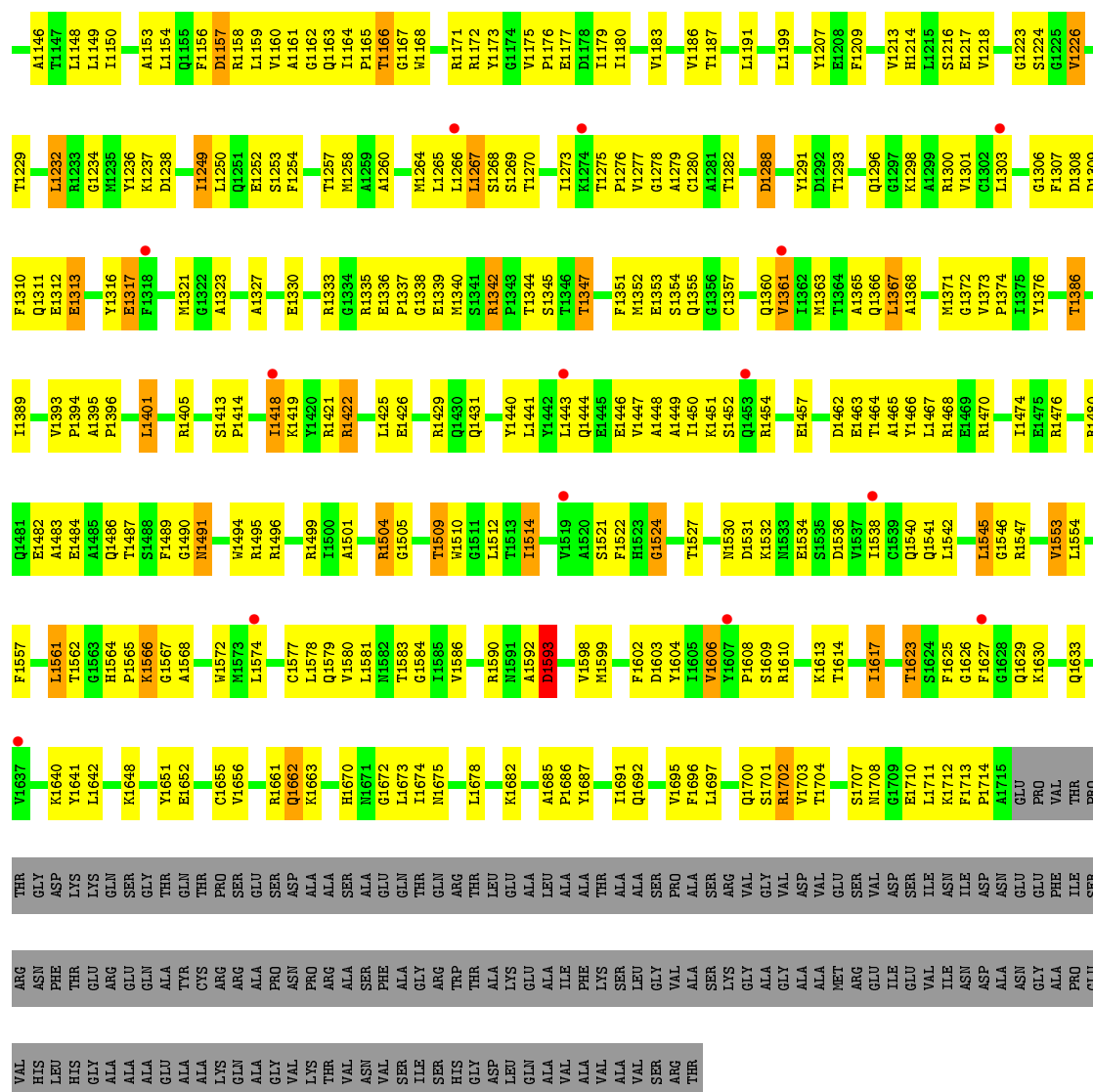
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	G	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	H	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	I	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	J	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	K	1	Total 31	C 17	N 4	O 9	P 1	0	0
4	L	1	Total 31	C 17	N 4	O 9	P 1	0	0



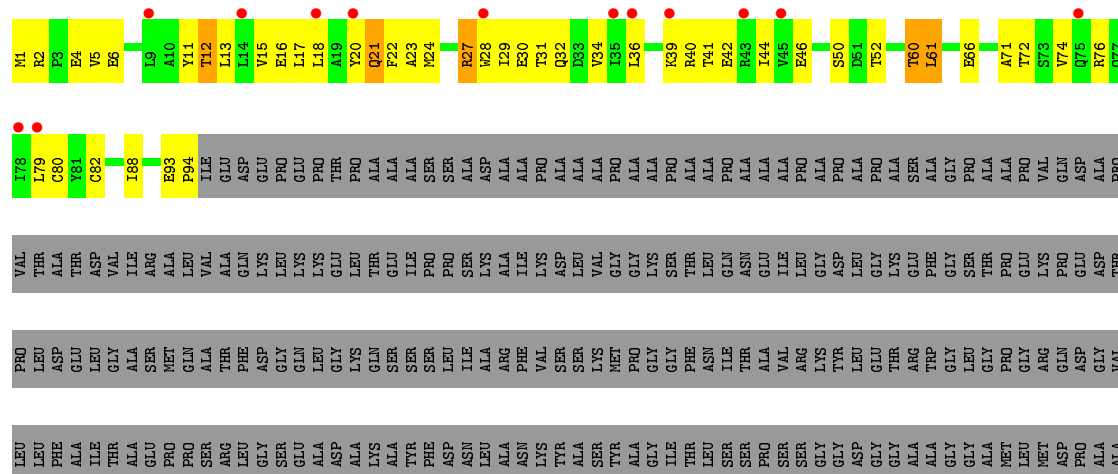
● Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS







## • Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS



R1468	T1386	G1306	S1216	T1139	V1059	W973	Q892	L821	D731	K630	F566	Y487	D416	I325
E1469		F1307	E1217	V1140	D1060	W973	Q893	E822	G735	A631	N567	V490	I417	T329
R1470		R1308	V1218	R1141	K1061	K978	F898	L824	L736	L632	A568	V490	F419	K330
R1473	I1389	D1309	G1223	L1142	D1063	P979	A899			T633	Y570	I492	R421	D331
I1474		P1310	S1224	A1146	V1064	L980	D900	W828	L740	G634		P493	L422	R333
E1475		Q1311	G1225	T1147	K1065	Q983	N902	E831	D741	I635	W573	T498	R423	R333
R1476		E1475	V1226	L1148	Y1068	L984	Q903	S832	Y742	L637	W574	T499	V424	A334
R1480		E1312	T1229	T1150	E1069	Q985	Q904	W833	Y743		W575	I500	R425	L335
R1481	L1401	E1313				Q986	L905		P745		W576	I501	D426	F336
Q1481		Y1316		A1153	I1072	W987	Q906	L837	P746	G647	W578	A502	R427	Q338
E1482	T1402	E1317	L1232	L1154	H1075	W988	Q907	T838	F747	L648	W579	B503	E428	Q339
A1483	T1403	G1233	G1234	Q1155	H1075	W989	I908	L839	A747		W580	G504	I429	
E1484	A1404	A1323	G1235	G1156		L990	P909		E751	A655		W505	V430	T343
A1485	R1405	A1327	W1236	D1157	I1078	W995	L911	W843		A662	Q583	W506		
S1413		A1327	I1236	T1158	R1079	W996	L911	R844	R754		W584	I506	C433	D350
E1414		E1330	R1237	L1159	L1080	T997	L914	G845	E755	A667	W585	R513	I434	L351
F1489			D1238	V1160	I1081	T997	L914	W846	I756		Q586	R517	R352	R352
R1490	I1418	R1333	I1249	A1161	E1082	Q998	T915	T847	D757	E668	ASP	R517	M437	A353
R1491	K1419	G1394	L1250	G1162	P1083	L999	T916	R848	S758	V669	GLY	R518	M438	
W1494	Y1420	R1335	Q1251	Q1163	E1084	L999	K917	T849	I759	L670	LYS	F519	M439	F358
R1495	R1421	E1336	L1164	L1164	L1085	E1001	L918	T850	D760	Q671	ASP	R519	S440	
R1496	R1422	P1337	S1253	P1165	L1086	E1001	R919	W850	S761	G672	ARG	W522	M441	S361
		G1338	F1254	T1166	F1086	P1004		L852		L673	ARG	W523	P442	
		E1339		G1167	Y1089	W1005	I922	R853	A766		ARG	W526	L443	Q365
R1499	E1426	M1340	T1257	W1168	D1090	G1006		S854	H767	A678	GLY	W527	L444	
I1500	L1427	M1258	M1258	D1169	P1091	M1007	S926	S855	R679	K679	ARG	A527		L368
A1501		A1259	A1260	A1170	N1092	A1008		R856	E528	ASN	ASN	R528	F447	
	R1429	R1342	A1260	R1171	K1093		R929	R857	M770	I681	GLY	G529	M448	W375
R1504	Q1430	T1344	W1264	R1172	K1094	R1011	Q930	L858	M771	V682	ASN		Q449	
A1505	Q1431	S1345		R1173	Q1095	W1012	Q930	R859	T772	T683	GLY	S533	Y450	D381
G1506		T1346	L1267	G1174	L1096	E1013	I933	A860		T684	ASN	Q534	H461	L382
A1507	W1435	T1347	P1176	P1175	L1097	M1014		R862	L777	S685	GLY	Y535	I452	Y383
A1508			S1268	E1177	V1100	Y1017	N940	W863	A780	R686	ASN	Y536	D453	A384
W1510	Y1440	M1352	T1270	D1178	E1101		V942	R864	I781	F687	HIS	N537		
G1511	L1443	E1353	G1271	I1179	E1102	L1022		R865	K782	V691	ARG	W538	T457	I387
L1512	Q1444	S1354	P1272	I1180	E1103	E1023			I783	T692	PRO	N543	T462	D392
T1513	E1446	Q1355	I1273	Q1104	Q1104		D947	W868	K786	E693	GLY	D544	Y463	P393
I1514	E1447	G1356	K1274	D1184	L1106	M1031	R948	R869		Y694	LYS	L545	Q464	L394
L1517	V1447	C1357	P1276	P1185	E1107	M1032	R949	T870	R786	Y695	VAL	R546	L465	K395
	A1448		W1277	P1186	P1108	M1037	A960	R871	R793	Q696	E610	S547	L466	A396
	A1449	Q1360	G1278	T1187	P1108	H1038	L951	S872	L799	G697	T611	W548	K467	R397
G1524	I1450	V1361	A1279	L1188	K1113	M1039	Y952	Q873	P800	Q708	P613	W549	E468	V398
S1526	K1451	M1363	C1280	L1188	E1117		R953	R874	L801	L709	F614	K550	L469	Y399
					E1118	L1042	R954	W875	L801	W710	L615	I552	G470	D400
	R1454	A1281		L1191	E1118	K1043	Y955	W876	N804		H616	I553	Q471	S401
		T1282		L1198	E1119		Y956	R878		F714	L617	W554	Q472	
	E1457	D1288	D1288	L1199	K1120	S1048	P959		G809	W715	K620	Q555	L473	H405
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				E1208	A961	W1050	A961	R882	D811			R557	K478	R407
I1538	F1461	K1298	T1293	L1129	N962	V1051	N962	L883	G812	Q720	F623	R557		Q408
	D1462	A1299		F1209	L963	D1052	L963	W884	L813	L725	G624	K560	K478	D409
Q1541	E1463	P1374		E1131	K964	T1055	Y965		Y814	W561		W561	L481	A410
L1542	T1464	L1375	R1300	E1132	Y965	G1056	P966	T888	S815	V726	W626	S562		S412
	A1465	Y1376	C1302	I1132	P966	E1056	P967	W889	E816		E627	Q563	P484	S412
L1546	Y1466	G1301	H1214	Q1137	P967	E1057	P967	W890	Y628	I729	E627	L564	P485	Y413
G1546		L1303	L1215	Y1138	P1058	P1058	P968	L891	S817	Y730	S629	Q565	V486	Y415



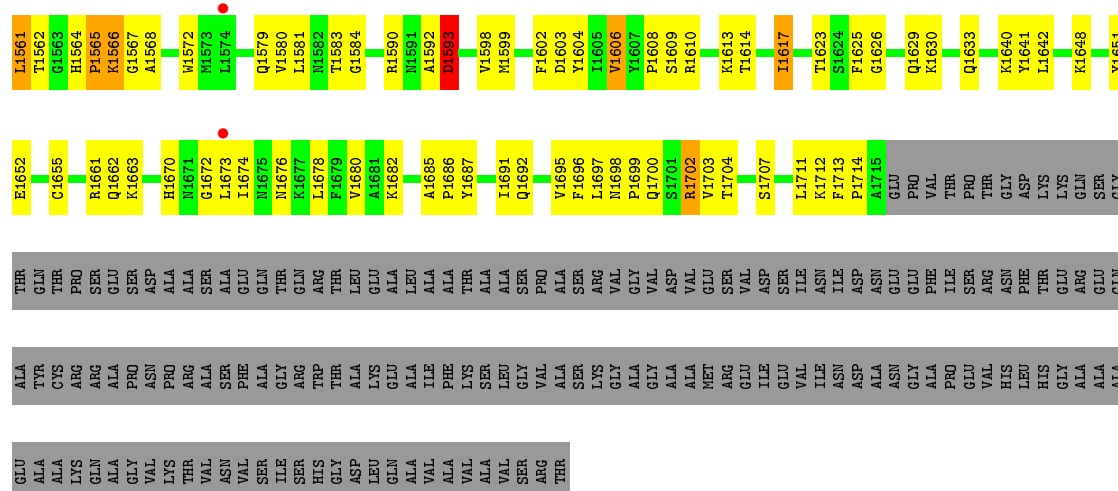
- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS



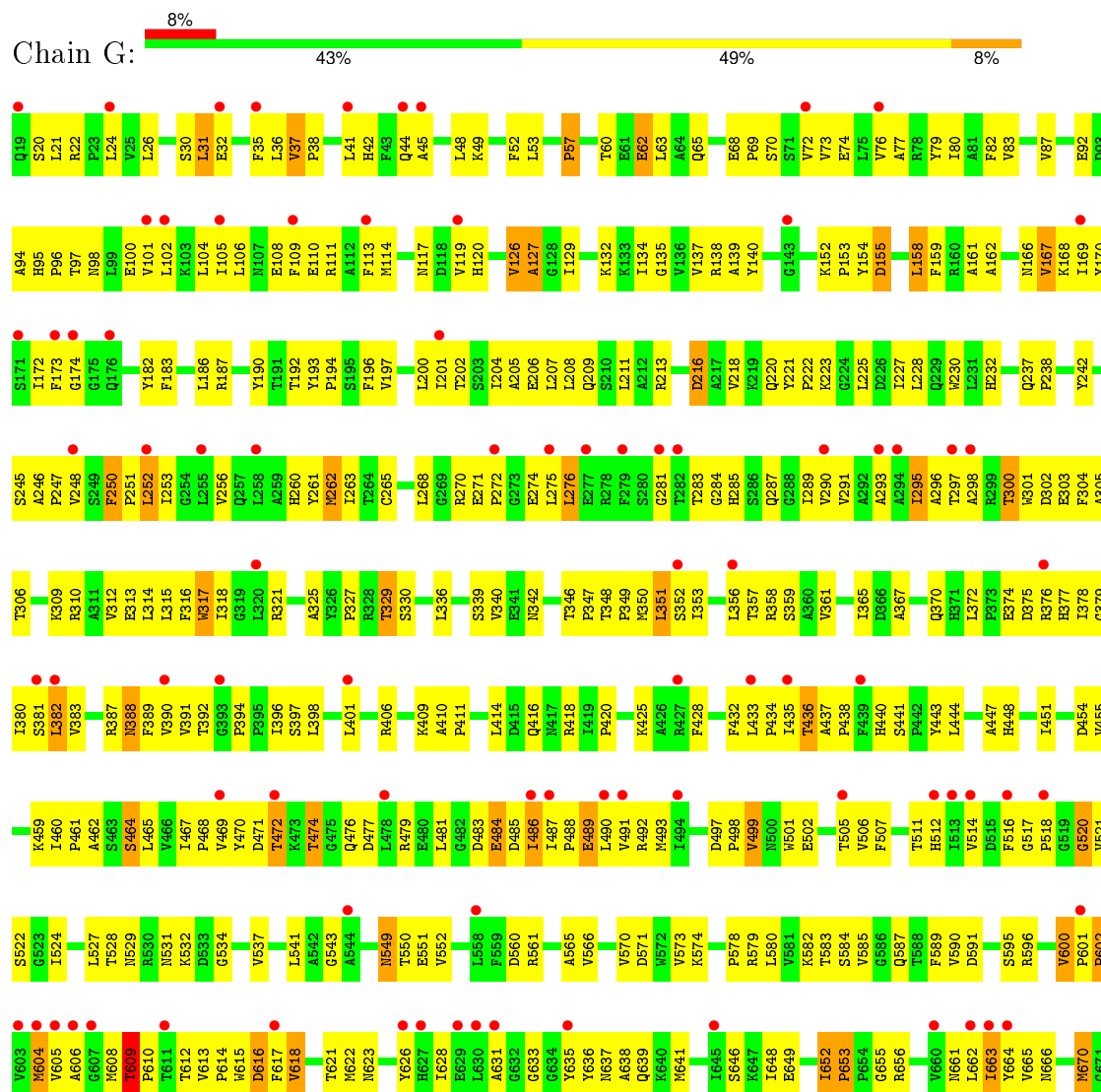


H1473	G1306	S1224	R1141	V1064	K978	A899	E831	Y742	L640	V573	Y414	GLY
I1474	F1307	G1225	L1142	K1065	P979	D900	S832	Y743	G647	I574	Y415	VAL
E1475	D1308	V1226	A1146	Y1068	L980	L901	M833	P744	L648	R574	D416	LEU
R1480	I1389	T1229	T1147	Y1069	Q983	N902	G834	P745	L649	A576	I417	PHE
A1483	V1393	F1310	L1148	K1070	G903	G904	N835	F746	H654	L577	I418	ALA
E1484	P1394	Q1311	L1149	Y1071	R985	L905	Y836	A747	A655	A578	G420	ILE
A1485	A1395	G1233	I1150	I1072	G986	Q906	T838	E751	G661	M579	R421	THR
Q1486	E1312	R1234	A1153	H1075	P987	F907	T838	Y751	G662	A580	R422	ALA
T1487	Y1316	K1237	L1154	I1078	V988	R908	I839	R754	A662	A502	R423	GLU
S1488	E1317	D1237	Q1155	I1079	N989	P909	V843	E755	A667	G504	V424	PRO
F1489	M1321	K1238	D1157	L1080	V995	K912	M846	D756	F668	N505	V425	PRO
A1495	G1322	L1241	R1158	I1081	V996	G913	T847	D757	F669	K317	D426	SER
T1497	A1323	I1242	L1159	E1082	T997	L914	R848	D760	L670	GLY	R427	ARG
S1498	G1413	I1249	V1160	P1083	G998	N915	G849	D761	L671	LYS	E428	LEU
F1499	A1327	Q1251	A1161	E1084	I999	T916	T850	S761	L673	ASP	I429	SER
A1495	E1330	G1252	Q1162	L1085	A1000	K917	G851	A766	L674	ARG	V430	GLU
R1496	E1333	F1254	I1164	F1086	E1001	L918	L852	H767	A678	GLY	C433	ALA
R1499	G1334	T1257	P1165	Y1089	P1004	L919	M853	H768	K679	ARG	I434	ASP
I1500	R1335	E1258	T1166	D1090	M1005	I922	S854	I769	V680	ASN	Q435	ALA
L1503	E1336	A1259	D1168	P1091	G1006	S826	N856	M770	I681	GLY	I436	LYS
R1504	F1337	G1260	L1169	R1093	A1008	S827	N857	L771	V682	GLY	M437	ALA
A1505	G1338	I1261	A1170	K1094	N1007	S828	L858	L772	T683	ASN	R438	TYR
G1506	R1428	M1264	R1171	Q1095	M1012	R929	R859	L777	S685	ASN	R439	PHE
L1507	M1340	E1265	Y1173	L1096	E1013	Q930	A860	G779	F687	HIS	S440	ASP
A1508	Q1431	L1266	G1174	E1099	M1014	I933	G862	A780	V691	SER	M441	ASN
T1509	R1342	L1267	V1175	E1100	Y1017	N940	V863	I781	T692	ARG	L444	ALA
W1510	F1343	S1268	P1176	V1101	Y1017	N940	V864	K782	E693	PRO	M448	LYS
L1512	T1344	T1270	E1177	E1103	L1022	V943	K865	I783	T693	GLY	Q449	TYR
L1514	T1347	G1271	I1180	Q1104	E1023	V943	V868	K786	Q696	VAL	Y450	SER
V1519	F1351	P1272	V1183	D1105	L1022	D947	T870	R793	Q697	T611	I452	ALA
F1522	M1352	I1273	V1183	L1106	M1031	H948	R869	L799	G703	S547	D453	GLY
H1523	E1353	K1275	V1186	E1107	M1032	E949	F871	P800	L799	V548	H454	ILE
G1524	S1354	P1276	T1187	P1108	Y952	L951	S972	L801	Q708	Y549	C455	THR
T1525	Q1355	G1278	L1188	K1113	M1037	Y952	Q874	L801	L709	L551	P456	LEU
S1526	G1356	A1279	L1191	E1117	H1038	I956	E875	F808	L709	I552	T457	SER
D1531	Q1357	C1280	L1199	E1118	M1039	I956	A877	G809	V710	R553	T462	PRO
K1532	V1360	A1281	L1199	F1119	L1042	P959	F878	N810	F714	R554	Y463	SER
E1533	I1362	T1282	Y1207	K1120	S1048	R960	N879	D811	N715	Q555	Q464	GLY
E1534	M1363	F1209	F1208	R1121	G1049	A961	L880	G812	Q716	R556	K467	GLY
T1538	Q1366	V1289	F1208	V1127	W1050	L963	G882	Y814	L725	K560	E468	ASP
Q1541	L1367	D1288	V1208	E1128	V1051	K964	L883	S815	V726	S561	L469	GLY
L1545	M1371	T1293	V1213	I1129	T1055	P966	M884	E816	I729	S562	Q471	ALA
G1546	G1372	K1298	L1214	F1130	G1056	P967	R888	S817	D731	Q563	Q472	ALA
R1547	E1374	A1299	L1215	E1131	E1057	P968	V889	L821	Y730	L564	I474	GLY
V1553	V1373	R1300	E1217	I1132	P1058	L970	N890	E822	L731	Q565	L473	GLY
	P1374	V1301	V1218	Q1137	P1058	P971	L891	T823	G735	F566	I474	ALA
	C1302	G1219	G1219	T1138	D1061	P971	G882	L824	L736	N567	L481	ALA
	L1303	G1223	G1223	T1139	K1062	N972	Q893	R827	L740	A568	V486	LEU
							F898			L569	Y487	ASP
										Y570		PRO





• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



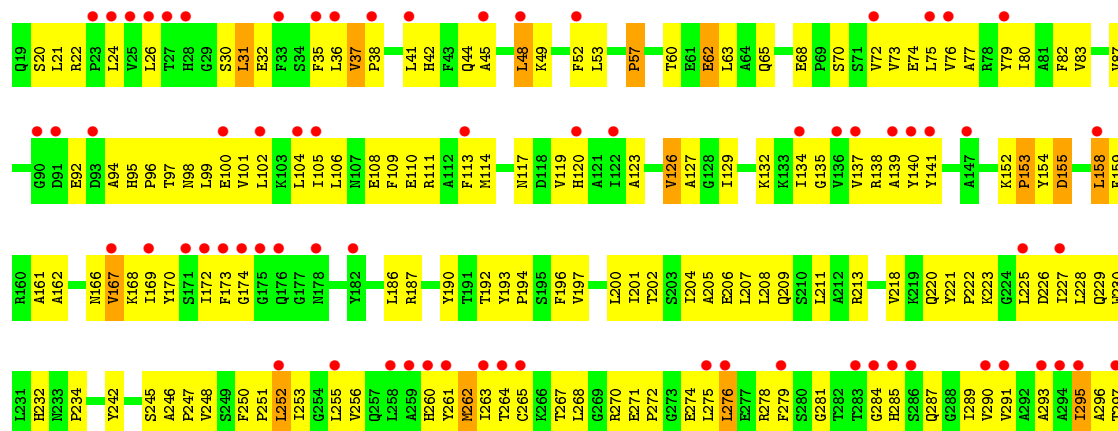






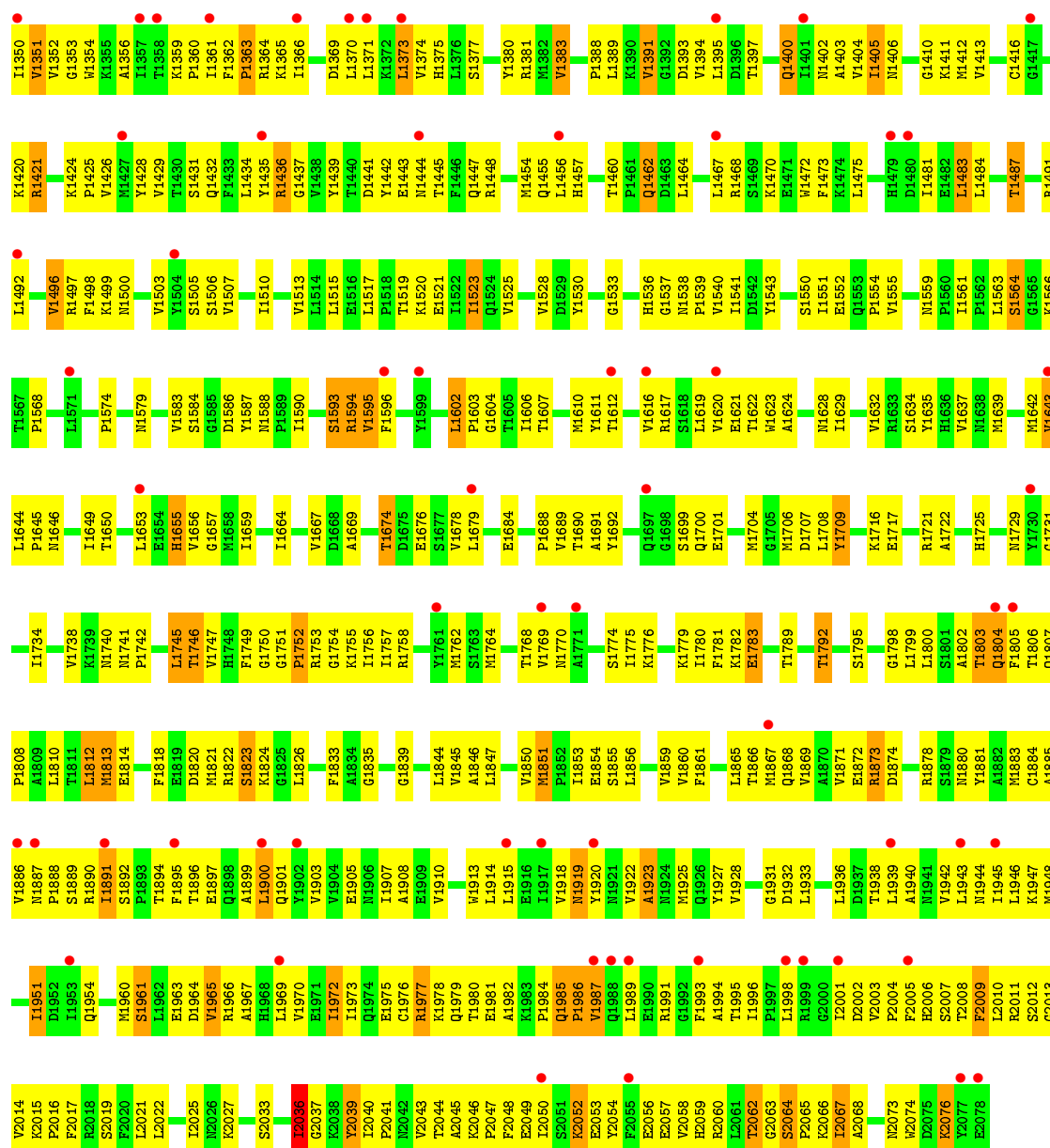


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K1365	D1302	S1159	I1079	M938	L868	P804	F737	Y864	D591	F519	
I1366	F1160	F1160	E1080	M805	A869	P805	P738	G665	I451	G520	
D1367	M1161	M1161	E1081	L941	T870	P806	I739	N666	M594	V521	
G1368	D1162	D1162	P1082	M942	R871	F807	I740	P667	D454	G522	
D1369	E1233	E1233	I1083	Y943	G972	D808	L741	R668	V455	G523	
L1370	I1234	I1164	K1084	V944		G809	Q742	R669		I524	
L1371	K1235		D1085		F875	G810	W743	M670	K459	I524	
K1372	L1236	Y1169	I1086	W950	W876	M811	I744	G671	P600	L527	
L1373	S1170	S1170	L1018	L951	K877	G812	G745	W671	P601	L527	
V1374	W1171	W1171	D1019	D952	E878	R815	G746	Q673	P602	T528	
H1375	R1172	R1172	G1020	P953	E878	R816	G747	Q673	V603	N529	
L1376	H1173	H1173	Q1021	S954	K882	M817	R747	I674	M604	A462	
S1377	A1174	A1174	R1022	S954	I883	R817		P675	V605	S464	
Y1380	F1176	F1176	R1023	K956	I883	T818	G750	L876	G607	L465	
V1383	A1243	A1243	K1026	T959	R888	K819	H751	R679	G607	V466	
P1384	T1177	T1177	P1027		S889	A819	H752	T609	I467	P468	
P1388	T1178	T1178	V1028		R890	K820	S753	P610	V469	V469	
P1389	E1179	E1179	P1029	P962	K891	E821	F754	T611	D470	D470	
L1390	V1180	V1180	F1030	P962	R891	A822	E755	T612	T471	T471	
V1391	F1181	F1181	P1031	P963	E894	R823	D756	V613	L541	L541	
G1392			P1032	R965		S825	F757	E688	A542	K472	
D1393	R1186	R1186	A1033	V966	K897	K826	I761	G688	P614	K473	
L1394	F1187	F1187	E1036	E967	R898	Q827	I762	L690	W615	T474	
L1395	Q1188	Q1188	E1037	E968	R899	A828	L763	T691	G543	T474	
P1396	T1189	T1189	M1037	R969	D900	K829	W764	D616	A544	D477	
V1397	P1190	P1190	F1038	R970	Y901	Q830	W765	F617	I545	L478	
L1400	L1192	L1192	K1044	T971	I902	A831	I768	T622	N549	R479	
L1401	E1107	E1107	D1045	E974	I903	R833		E551	L481	L481	
F1402	V1110	V1110	S1046	Q975	K905	D834	W773	V552	G482	G482	
M1403	P1111	P1111	L1047	Q976	L906	R835	I774	K585	E484	E484	
L1404	W1112	W1112	Q1049	S978	N907	P836	W775	P556	D485	D485	
V1405	I1113	I1113	S1050	L979	D908	G837	L776	I628	I486	I486	
M1406	E1114	E1114	E1051	Q981	D909	V838	W777	L558	I487	I487	
S1409	V1115	V1115	D1052	Q981	F910	D839	A778	F589	P488	P488	
G1410	F1116	F1116	I1053	I986	Q911	D840	G779	G632	E489	E489	
K1411	L1120	L1120	Y1057	P989	R912	D841	S780	G633	L490	L490	
M1412	L1121	L1121	G1058	P990	V913	Q842	G781	G634	V491	V491	
V1413	A1122	A1122	Q1059	P991	R914	W843	F782	Y635	R492	R492	
E1414	A1123	A1123	D1060	A992	G916	N845	G783	Y636	M493	M493	
V1415	T1124	T1124	V1061	A992	R917	T846	S785	N637	D497	D497	
A1349	D1125	D1125	G1062		M918	Y847	E786	Q639	P498	P498	
V1350	E1126	E1126	R1063	R995	G921	T851	D787	R640	V499	V499	
V1351	P1128	P1128	G1065	L997	V924	W854	P790	S646	W501	W501	
G1352	D1129	D1129	I1066	A998	D925	R855	W791	K647	E502	E502	
W1354	A1135	A1135	L1067	A999	L926	T856	V792	I648	T505	T505	
K1355	S1218	S1218	Q1068	Y1000	E927	R857	I793	E649	V506	V506	
A1356	P1209	P1209	G1069	P1001	N929	L858	G794	K582	F507	F507	
L1357	R1220	R1220	P1070	E1002	N929	S859	S795	I652	T511	T511	
T1358	K1141	K1141	V1071	A1003	T930	R860	W796	P653	H512	H512	
K1359	T1142	T1142	A1072	S1004	Y931	M861	S797	P654	S584	S584	
V1426	S1143	S1143	A1073	T1005	A932	G862	I798	G655	H513	H513	
M1427	Q1224	Q1224	K1074	Q1006	E933	E863	G799	R656	V514	V514	
V1429	S1225	S1225	I1075	L1007	V934	P864	F800	Q587	D515	D515	
	A1226	A1226	S1076	I1008	V935	I865	Q801	N661	F516	F516	

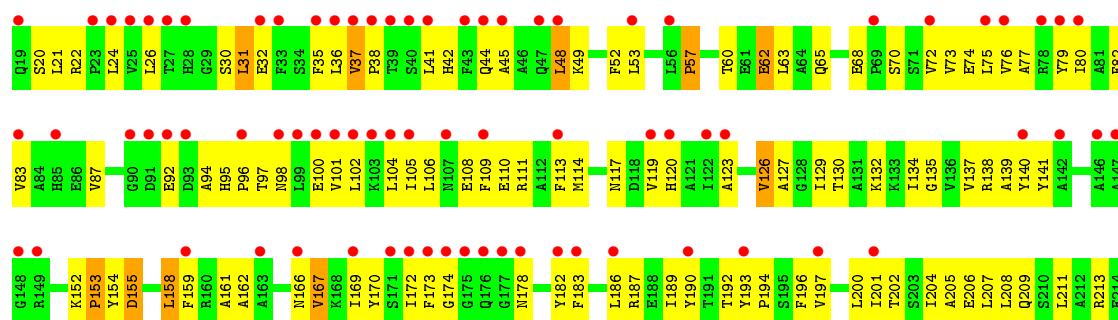




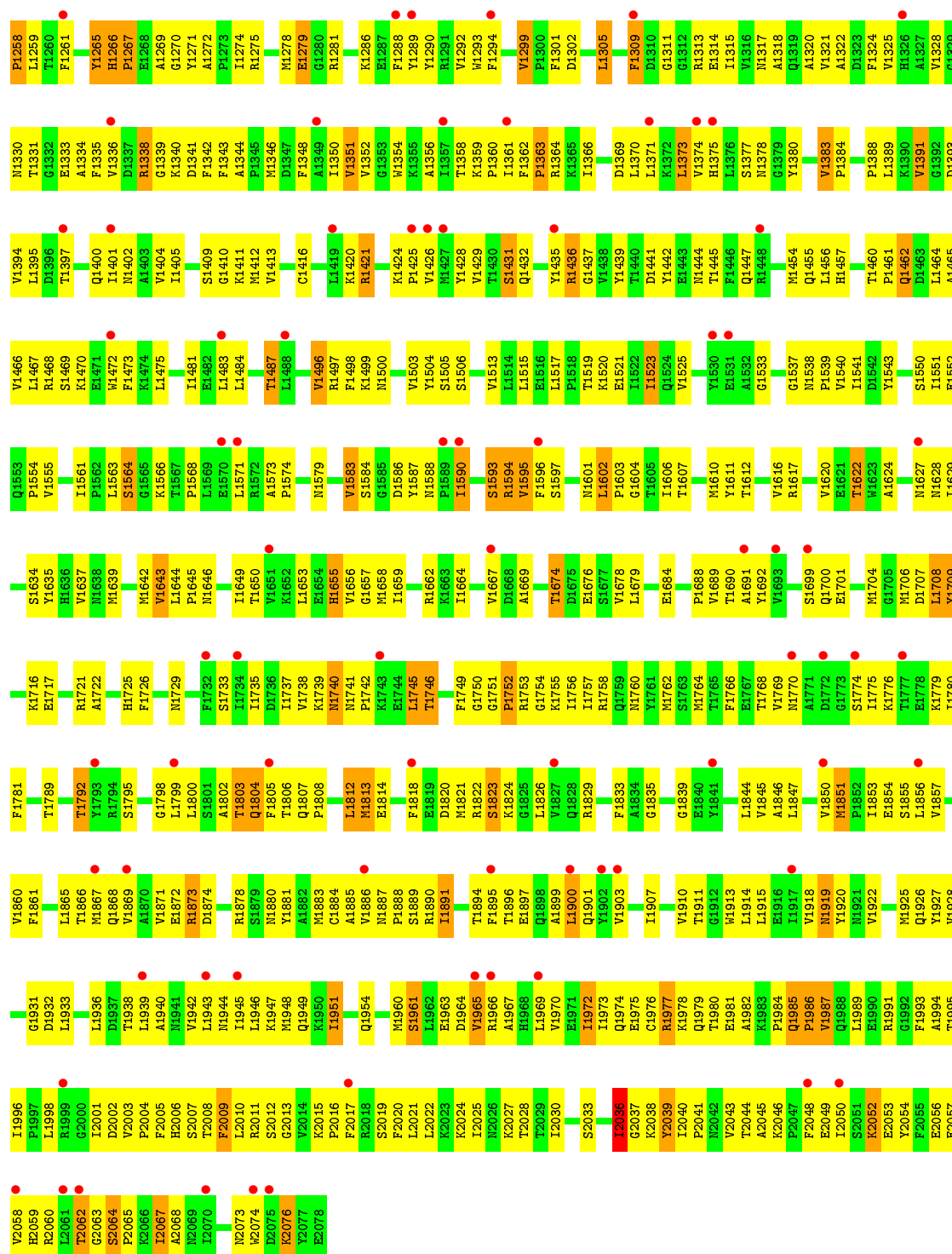




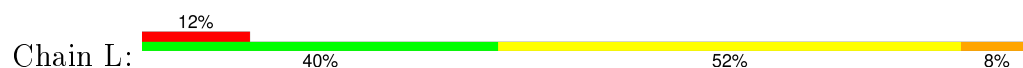
### • Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS







• Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



A1073	I1008	R937	I865	Y602	P738	L662	V590	G517	H448	E374	W301	H232	I169	H95
K1074	M009	R938	H866	P903	I739	I663	D591	P518	I451	D375	D302	H233	Y170	P96
Y1075	A1010		K867	P904	I740	V664		G519		R376	R303	P234	S171	T97
S1076	Q1011	L941	L868	M805	L741	V665	M594	G520	V455	R377	F304		I172	N98
K1077	D1012	P942	A869	P806	Q742	M666	S595	S521		I378	A305	Y242	F173	L99
V1078	V1013	Y943	T870	P807	Q743	P667	S596	V522		G379	T306		G174	E100
I1079	Q1014	V944	R871	D808	T744	A668	L597	G523	K459	I380		S245	G175	V101
D1080	H1015	R945	F875	G809	G745	A669	L598	I524	I460	S381	K309	A246	Q176	L102
E1081	F1016	R946	H876	C810	G746	M670	L599		P461	S382	R310	P247	G177	K103
P1082	L1017	E947		M811	R747	G671	V600		A462	V383	A311	V248	I178	L104
K1083	L1018		K877	G812	G748	Q672	P601	L527	S463		V312	S249	I179	I105
K1084	G813		E878	G813	G749	Q673	P602	T528	S464	R387	E313	P250	E180	L106
D1085	L1019	I961	L879	S814	G750	L674	V603	H530	L465	I388	L314	P251	F181	N107
I1086	Q1021	D852		R815	H751	P675	M604	N531	V466	F389	L315	L282	I182	E108
L1087	P853	P963	F882	M816	H752	L676	V605	D533	I467	V390	F316	I253	E185	F109
D1088	R1023	R964	T883	M817	S753	L677	A606	K532	P468	T391	W317	L254	E110	E110
G1089	K1089	I955		T818	F754		G607	G534	V469	T392	I318	V256	L186	R111
I1090	K1026	K956	R888	A819	F755	V685	N608	T535	Y470	G393		Q257	R187	A112
H1091	P1027		S889	K820	D756	P686	T809	G536	D471	P394	R321		F188	F113
N1092	V1028	T959	K890	E821	F757	I687	P610	V537	T472	P395		H260	I189	M114
D1093	P1029		R891	A822	H758		T611		R473	I396	A325	H261	Y190	
H1094	F1030	F962	E894	H823	Q759	L690	T612	I540	T474	S397	Y326	M262	T191	N117
I1095	V1031	I963	T824	T824	P760		V613	L541	G475	L398	P327	I263	T192	D118
K1096	P1032	R964	S825	S825	I761	S698	P614	A542	D476	V399	R328	T264	Y193	V119
F1097	A1033	R965	Q827	Q827	L762	L699	H615	G543	D477	G400	T329	C265	P194	H120
L1098	E1036	V966	R898	R898	L763	E700	D616		L478	L401	S330	K266	S185	A121
R1099		E967	R899	A828	Y764	A702	P617	N549	R479	I402	L331	K267	F196	I122
I1100			D900	K829	Y765		V618	T550	E480	L403	L336	T267	V197	A123
Y1103	F1042	T971	I902	Q830	I768		T621	E551	D481	R406		L268	L200	V126
D1104	K1043		I903	L832			N622	V552	D483		S339	R270	I201	I207
G1105	K1044	E974	E904	V833	N773		N623	G553	E484	K409	Y340	E271	T202	G128
K1106	D1045		K905	D834	I774			E557	P485	A410	E341	P272	S203	I129
E1107	S1046	P977	N907	A835	V775	T708	Y626	F558	I487	P411	N342	G273	I204	K132
V1110	V1048	S978	D908	G837	V776	G710	H627	D560	P488	L414	T346	L275	E206	K133
P1111	Q1049	L979	N909	V838	V777	G711	G628	B561	E489	D415	P347	L276	L207	I134
V1112	S1050	L980	F910	D839	G779	E712	L630		L490	Q416	T348		L208	G135
I1113	E1051	Q981		D840	S780	H713	A631	A565	V491	R417	P349	F279	Q209	Y136
E1114	D1052		K912	D941	G781		G632	V566	R492	R418	M350	S280	S210	V137
F1116	I1053	L986	V913	Q842	F782	F716	G633	Q567	M493	L419	S352	T282	A212	A139
	A1054	D987	N914	E844	G783	K717	G634	F568		P420	I353	G283	R213	Y140
	V1056	E988	F915	E844	G784	F718	V635	A569	D497	K425	L356	G284	D216	Y141
	Y1057	P990	G916	N845	S785	G719		V570	P498		L357	H285	A217	K152
		P991	R917	T846	E786	S720	M638	D571	V499	F428	T357	S286	A218	P153
		A992	N918	Y847	D787	A723	N641	H572	M500	F432	R358	Q287	K219	Y154
						I724		K574	E502	L433	S359	G288	Q220	D155
		R995	D924	T851	P790	G725	S646	P578	T505	P434	V361	V290	Y221	S156
		I996	L926	V854	Y791	V726	V647	R579	V506	I435	L365	A292	P222	A157
		L997	E927	I855	L792	V727	I648	L580	F507	F436	D366	A293	K223	L158
			D928	T856	G794	I728	B649	V581	P508	A437	A367	A294	G224	F159
	Y1000		N929	V857	S795	I729		K582		P438	T368	I295	L225	R160
	P1001		T930	L858	S796	I730	I652	T583	T511	F439	N369	A296	D226	A161
	E1002		Y931	S859	Y796	A731	P853	S584	H512	H440	Q370	T297	L228	A162
	Q1068		A932	E860	S797	K732	P854		B513		L372	A298	Q229	
	S1004		E933	M661	T798		G655	Q587	F514	L444	H371	A299	L231	N166
			V934	E862	K799	P735	H656	T588	D515		V167	R239	Y230	V167
	Q1006		E963	F736	F800	F737	N661	F589	F516	A447		T300	L231	K168
	L1007		H936		G801									



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	215.78Å 412.67Å 220.90Å 90.00° 111.57° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 96.48 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.7 (12.00-3.10) 92.6 (96.48-3.10)	Depositor EDS
$R_{merge}$	0.24	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.89 (at 3.13Å)	Xtriage
Refinement program	PHENIX.REFINE	Depositor
R, $R_{free}$	0.270 , 0.300 0.269 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	DCC
Wilson B-factor (Å <sup>2</sup> )	66.0	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 64.4	EDS
Estimated twinning fraction	0.078 for l,-k,h	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.39$ , $\langle L^2 \rangle = 0.21$	Xtriage
Outliers	0 of 645017 reflections	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	167247	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	75.0	wwPDB-VP

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

<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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

## 5 Model quality

### 5.1 Standard geometry

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

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

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

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

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

There are no bond length outliers.

All (7) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (2) planarity outliers are listed below:

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

## 5.2 Too-close contacts ⓘ

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1148:LEU:HD13	1:D:1148:LEU:HD13	1.39	1.04
2:G:1594:ARG:HH11	2:G:1594:ARG:HG2	1.15	1.04
2:J:511:THR:HG22	2:J:512:HIS:CD2	1.93	1.04
2:G:846:THR:HG21	2:G:866:HIS:CD2	1.92	1.04
2:K:374:GLU:HA	2:K:377:HIS:CD2	1.91	1.04
1:D:1702:ARG:HH11	1:D:1702:ARG:CG	1.69	1.04
2:H:1194:ARG:HH11	2:H:1194:ARG:HG3	0.93	1.04
2:L:595:SER:HB3	2:L:602:PRO:HG3	1.39	1.04
2:J:610:PRO:HD2	4:J:2101:FMN:H6	1.36	1.03
1:C:1702:ARG:HH11	1:C:1702:ARG:CG	1.70	1.03
2:H:2052:LYS:HD3	2:H:2074:TRP:NE1	1.72	1.03
1:A:557:ARG:HG3	1:A:557:ARG:HH11	1.21	1.03
2:L:610:PRO:HD2	4:L:2101:FMN:H6	1.35	1.03
1:B:1702:ARG:CG	1:B:1702:ARG:HH11	1.69	1.03
1:A:365:GLN:HG3	1:F:365:GLN:HG3	1.39	1.03
2:J:2052:LYS:HD3	2:J:2074:TRP:NE1	1.73	1.03
1:B:535:TYR:OH	1:B:630:LYS:HE3	1.58	1.03
2:L:2052:LYS:HD3	2:L:2074:TRP:NE1	1.73	1.02
1:D:1278:GLY:H	1:D:1282:THR:HG22	1.23	1.02
2:J:846:THR:HG21	2:J:866:HIS:CD2	1.94	1.02
2:L:1115:TYR:HB3	2:L:1267:PRO:HB3	1.38	1.02
1:D:557:ARG:HG3	1:D:557:ARG:HH11	1.19	1.02
2:G:374:GLU:HA	2:G:377:HIS:CD2	1.93	1.02
1:E:427:ARG:HG3	1:E:427:ARG:HH11	1.21	1.02
1:B:1499:ARG:HD3	1:D:1476:ARG:HH12	1.19	1.02
2:J:1194:ARG:NH1	2:J:1194:ARG:HG3	1.68	1.02
2:I:846:THR:HG21	2:I:866:HIS:CD2	1.94	1.02
1:E:1702:ARG:HH11	1:E:1702:ARG:CG	1.72	1.01
2:K:685:VAL:HG23	2:K:1186:ARG:HH12	1.17	1.01
1:F:427:ARG:HG3	1:F:427:ARG:HH11	1.21	1.01
1:B:365:GLN:HG3	1:E:365:GLN:HG3	1.42	1.01
1:D:427:ARG:HH11	1:D:427:ARG:HG3	1.24	1.01
2:L:917:ARG:HH11	2:L:917:ARG:CG	1.74	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:HH11	0.89	1.01
2:G:1194:ARG:HG3	2:G:1194:ARG:NH1	1.67	1.01
2:I:2052:LYS:HD3	2:I:2074:TRP:NE1	1.75	1.01
2:G:2052:LYS:HD3	2:G:2074:TRP:NE1	1.76	1.01
1:F:1079:ARG:HH11	1:F:1079:ARG:HG2	1.26	1.01
2:K:1200:ARG:H	2:K:1200:ARG:HD3	1.25	1.01
1:B:427:ARG:HH11	1:B:427:ARG:HG3	1.23	1.01
1:E:1672:GLY:HA3	1:E:1678:LEU:HD23	1.42	1.01

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

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1443:LEU:HD21	1:A:1470:ARG:CB	2.03	0.85
1:D:1443:LEU:HD21	1:D:1470:ARG:CB	2.05	0.85
2:I:1868:GLN:HG2	2:I:1873:ARG:NH2	1.91	0.85
2:H:752:HIS:CE1	2:H:847:TYR:HE2	1.95	0.85
1:E:1702:ARG:HH11	1:E:1702:ARG:HG2	1.42	0.85
2:J:117:ASN:HA	2:J:561:ARG:HG3	1.57	0.85
2:G:1602:LEU:HG	2:G:1606:ILE:HD11	1.58	0.85
2:J:752:HIS:HE1	2:J:847:TYR:CE2	1.95	0.85
2:H:1499:LYS:HB3	2:H:1505:SER:HB2	1.59	0.85
1:B:868:VAL:HG11	1:B:908:ILE:HD11	1.57	0.85
2:J:2059:HIS:HE1	2:J:2068:ALA:HB2	1.40	0.85
1:C:868:VAL:HG11	1:C:908:ILE:HD11	1.58	0.85
1:C:398:VAL:HG22	1:C:710:VAL:HG22	1.57	0.85
1:B:1663:LYS:HG2	2:H:1007:LEU:HD11	1.58	0.84
1:F:868:VAL:HG11	1:F:908:ILE:HD11	1.58	0.84
2:I:448:HIS:HD2	2:I:491:VAL:HG12	1.40	0.84
2:J:1919:ASN:HB2	2:J:1928:VAL:HB	1.55	0.84
2:K:1602:LEU:HG	2:K:1606:ILE:HD11	1.58	0.84
2:L:511:THR:HG22	2:L:512:HIS:HD2	1.38	0.84
2:L:1499:LYS:HB3	2:L:1505:SER:HB2	1.59	0.84
1:D:558:LEU:HB2	1:D:563:GLN:HG3	1.60	0.84
1:B:430:VAL:HG11	1:B:490:VAL:HG11	1.59	0.84
2:I:752:HIS:CE1	2:I:847:TYR:HE2	1.94	0.84
2:G:511:THR:HG22	2:G:512:HIS:HD2	1.34	0.84
2:K:1194:ARG:HH11	2:K:1194:ARG:CG	1.83	0.84
2:J:511:THR:HG22	2:J:512:HIS:HD2	1.39	0.84
1:C:989:ASN:H	1:C:1491:ASN:HD21	1.22	0.84
2:H:2057:GLU:HA	2:H:2060:ARG:NH1	1.93	0.84
2:J:635:TYR:CG	2:J:641:MET:HG3	2.12	0.84
2:H:854:VAL:HG21	2:H:1070:PRO:HA	1.60	0.84
2:L:635:TYR:CG	2:L:641:MET:HG3	2.12	0.84
2:J:752:HIS:CE1	2:J:847:TYR:HE2	1.94	0.84
1:D:1278:GLY:N	1:D:1282:THR:HG22	1.91	0.84
1:D:868:VAL:HG11	1:D:908:ILE:HD11	1.58	0.84
2:G:448:HIS:HD2	2:G:491:VAL:HG12	1.42	0.84
1:E:398:VAL:HG22	1:E:710:VAL:HG22	1.58	0.84
2:L:1231:THR:HG23	2:L:1595:VAL:HG21	1.58	0.84
2:L:610:PRO:HG3	2:L:1047:LEU:HD22	1.59	0.84
1:F:1005:TRP:NE1	1:F:1561:LEU:HD22	1.93	0.84
2:G:818:THR:HG22	2:G:829:LYS:HB2	1.58	0.84
1:B:684:THR:HG23	1:B:686:ARG:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:498:THR:HG21	1:C:858:LEU:HA	1.57	0.84
2:L:1594:ARG:NH1	2:L:1594:ARG:HG2	1.92	0.84
2:L:752:HIS:HE1	2:L:847:TYR:CE2	1.94	0.84
1:C:741:ASP:OD1	1:C:793:ARG:HD3	1.78	0.84
2:L:448:HIS:HD2	2:L:491:VAL:HG12	1.43	0.84
1:C:1363:MET:HE1	1:C:1373:VAL:HG21	1.60	0.84
1:D:1107:GLU:HG3	1:D:1108:PRO:HD2	1.60	0.83
2:I:1499:LYS:HB3	2:I:1505:SER:HB2	1.58	0.83
2:J:448:HIS:HD2	2:J:491:VAL:HG12	1.43	0.83
2:J:814:SER:HB2	4:J:2101:FMN:O3P	1.78	0.83
2:I:1265:TYR:CE1	2:I:1267:PRO:HG3	2.12	0.83
2:J:1594:ARG:HG2	2:J:1594:ARG:NH1	1.87	0.83
1:D:557:ARG:HH11	1:D:557:ARG:CG	1.90	0.83
2:G:610:PRO:HG3	2:G:1047:LEU:HD22	1.59	0.83
1:E:1102:ILE:HD12	1:E:1146:ALA:HB3	1.60	0.83
2:I:1301:PHE:HB3	2:I:1364:ARG:HG3	1.59	0.83
2:I:2059:HIS:HE1	2:I:2068:ALA:HB2	1.41	0.83
2:L:1602:LEU:HG	2:L:1606:ILE:HD11	1.60	0.83
1:B:961:ALA:HB2	1:B:1022:LEU:HD12	1.60	0.83
2:I:814:SER:HB2	4:I:2101:FMN:O3P	1.78	0.83
1:D:961:ALA:HB2	1:D:1022:LEU:HD12	1.60	0.83
2:G:1301:PHE:HB3	2:G:1364:ARG:HG3	1.59	0.83
1:F:1278:GLY:HA2	1:F:1630:LYS:HE2	1.58	0.83
1:E:741:ASP:OD1	1:E:793:ARG:HD3	1.77	0.83
1:E:1005:TRP:NE1	1:E:1561:LEU:HD22	1.92	0.83
2:H:1700:GLN:HA	2:H:1704:MET:HE1	1.59	0.83
2:K:685:VAL:HG23	2:K:1186:ARG:NH1	1.92	0.83
1:C:669:VAL:O	1:C:673:LEU:HD12	1.78	0.83
2:K:1637:VAL:HG11	2:K:1679:LEU:HD13	1.60	0.83
2:L:1454:MET:HE2	2:L:1550:SER:HA	1.61	0.83
1:A:557:ARG:CG	1:A:557:ARG:HH11	1.90	0.83
2:J:327:PRO:O	2:K:1338:ARG:NH2	2.11	0.83
2:G:791:TYR:HA	2:G:796:TRP:CD1	2.14	0.83
2:K:610:PRO:HG3	2:K:1047:LEU:HD22	1.59	0.83
1:E:532:ILE:HG21	1:E:907:PHE:HB2	1.60	0.83
2:K:511:THR:HG22	2:K:512:HIS:HD2	1.42	0.83
2:G:2059:HIS:HE1	2:G:2068:ALA:HB2	1.43	0.83
1:F:398:VAL:HG22	1:F:710:VAL:HG22	1.60	0.83
1:D:1447:VAL:HG21	1:D:1467:LEU:HD21	1.61	0.82
2:G:814:SER:HB2	4:G:2101:FMN:O3P	1.79	0.82
1:E:967:PHE:CG	1:E:1374:PRO:HG3	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:605:VAL:HB	2:K:628:ILE:HG13	1.59	0.82
1:A:741:ASP:OD1	1:A:793:ARG:HD3	1.79	0.82
1:A:1447:VAL:HG21	1:A:1467:LEU:HD21	1.60	0.82
1:A:1565:PRO:HG3	1:A:1572:TRP:CZ3	2.14	0.82
1:E:612:ILE:HG12	1:E:628:TYR:CE2	2.13	0.82
1:C:1565:PRO:HG3	1:C:1572:TRP:CZ3	2.14	0.82
2:H:1594:ARG:NH1	2:H:1594:ARG:HG2	1.89	0.82
2:J:610:PRO:HG3	2:J:1047:LEU:HD22	1.59	0.82
2:H:327:PRO:HD2	2:I:1338:ARG:NH2	1.95	0.82
2:G:1915:LEU:HD21	2:G:1939:LEU:HD22	1.61	0.82
2:G:471:ASP:HB3	2:G:474:THR:O	1.79	0.82
2:K:818:THR:HG22	2:K:829:LYS:HB2	1.59	0.82
1:D:406:ALA:HA	1:D:439:ARG:NH1	1.93	0.82
1:A:398:VAL:HG22	1:A:710:VAL:HG22	1.60	0.82
1:B:397:ARG:HG2	1:B:397:ARG:NH1	1.82	0.82
2:J:300:THR:HB	2:J:303:GLU:H	1.45	0.82
2:H:600:VAL:HG13	2:H:601:PRO:HD2	1.60	0.82
1:E:532:ILE:CG2	1:E:907:PHE:CB	2.58	0.82
1:F:535:TYR:OH	1:F:630:LYS:HE3	1.79	0.82
1:F:1447:VAL:HG21	1:F:1467:LEU:HD21	1.60	0.82
2:L:600:VAL:HG13	2:L:601:PRO:HD2	1.60	0.82
1:E:1702:ARG:HH11	1:E:1702:ARG:HG3	1.45	0.82
2:I:903:ILE:HD11	2:I:914:TRP:CE2	2.15	0.82
2:L:2052:LYS:HD3	2:L:2074:TRP:HE1	1.44	0.82
2:H:43:PHE:HB2	2:I:22:ARG:NH2	1.95	0.82
2:K:783:GLY:HA3	2:K:1075:TYR:HB3	1.60	0.82
2:I:1890:ARG:HH22	2:I:1996:ILE:HD11	1.43	0.82
2:H:1454:MET:HE2	2:H:1550:SER:HA	1.61	0.82
1:C:1443:LEU:HD21	1:C:1470:ARG:CB	2.06	0.82
1:A:729:ILE:HA	1:A:736:LEU:CD2	2.10	0.82
1:A:498:THR:HG21	1:A:858:LEU:HA	1.62	0.82
1:D:1565:PRO:HG3	1:D:1572:TRP:CZ3	2.15	0.82
2:H:917:ARG:HG3	2:H:917:ARG:NH1	1.89	0.82
1:A:1702:ARG:HH11	1:A:1702:ARG:HG3	1.45	0.82
1:B:777:LEU:O	1:B:781:ILE:HG13	1.80	0.82
1:B:1702:ARG:HG2	1:B:1702:ARG:HH11	1.42	0.81
1:A:1102:ILE:HD12	1:A:1146:ALA:HB3	1.61	0.81
1:A:406:ALA:HA	1:A:439:ARG:NH1	1.93	0.81
1:F:824:LEU:HB3	1:F:839:ILE:CD1	2.09	0.81
2:L:857:VAL:HG13	2:L:876:TRP:NE1	1.94	0.81
2:K:1231:THR:HG23	2:K:1595:VAL:HG21	1.60	0.81

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LEU:HD12	2:J:227:ILE:HD11	1.63	0.80
1:B:1104:GLN:OE1	1:D:1107:GLU:HB2	1.80	0.80
1:D:1278:GLY:HA2	1:D:1630:LYS:HE2	1.62	0.80
1:F:1702:ARG:HH11	1:F:1702:ARG:HG2	1.45	0.80
1:A:1702:ARG:HG2	1:A:1702:ARG:HH11	1.45	0.80
1:F:1102:ILE:HD12	1:F:1146:ALA:HB3	1.61	0.80
2:K:1288:PHE:O	2:K:1292:VAL:HG23	1.81	0.80
1:C:1617:ILE:HD13	1:C:1617:ILE:H	1.47	0.80
2:I:685:VAL:HG12	2:I:687:ILE:HG13	1.64	0.80
2:L:747:ARG:HH11	2:L:780:SER:HB3	1.46	0.80
2:I:1746:THR:HB	2:I:1792:THR:HG23	1.63	0.80
2:L:1918:VAL:HG13	2:L:2006:HIS:HB2	1.63	0.80
2:L:459:LYS:HA	2:L:485:ASP:OD1	1.80	0.80
2:G:856:THR:HG23	2:G:866:HIS:CD2	2.17	0.80
1:E:406:ALA:HA	1:E:439:ARG:NH1	1.96	0.80
2:J:579:ARG:HB2	2:J:591:ASP:HB3	1.63	0.80
2:I:1700:GLN:HA	2:I:1704:MET:HE1	1.64	0.80
2:I:208:LEU:HD12	2:I:227:ILE:HD11	1.64	0.80
1:D:1005:TRP:NE1	1:D:1561:LEU:HD22	1.97	0.80
2:J:600:VAL:HG13	2:J:601:PRO:HD2	1.64	0.80
1:B:1617:ILE:HD13	1:B:1617:ILE:H	1.46	0.80
2:L:374:GLU:HA	2:L:377:HIS:HD2	1.45	0.80
2:G:605:VAL:HB	2:G:628:ILE:HG13	1.64	0.80
1:A:31:THR:HG23	2:G:2040:ILE:HG21	1.62	0.80
1:C:440:SER:HB3	1:C:481:LEU:HD23	1.64	0.80
2:H:1288:PHE:O	2:H:1292:VAL:HG23	1.81	0.80
2:J:1700:GLN:HA	2:J:1704:MET:HE1	1.63	0.80
1:B:1443:LEU:O	1:B:1447:VAL:HG23	1.82	0.79
1:D:613:PRO:HG2	1:D:633:THR:HG21	1.64	0.79
1:D:527:ALA:HB2	1:D:637:LEU:CD2	2.12	0.79
2:K:747:ARG:HH11	2:K:780:SER:HB3	1.47	0.79
2:K:595:SER:HB3	2:K:602:PRO:CG	2.13	0.79
2:K:917:ARG:NH1	2:K:917:ARG:HG3	1.92	0.79
2:K:1746:THR:HB	2:K:1792:THR:HG23	1.63	0.79
1:B:729:ILE:HA	1:B:736:LEU:CD2	2.12	0.79
2:I:459:LYS:HA	2:I:485:ASP:OD1	1.80	0.79
1:B:824:LEU:HB3	1:B:839:ILE:CD1	2.11	0.79
2:H:2052:LYS:HD3	2:H:2074:TRP:HE1	1.43	0.79
1:E:960:ARG:HB3	2:K:969:ARG:NH1	1.98	0.79
1:D:1363:MET:HE1	1:D:1373:VAL:HG21	1.65	0.79
2:H:2015:LYS:HB2	2:H:2016:PRO:HD3	1.63	0.79

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1890:ARG:HH22	2:L:1996:ILE:HD11	1.48	0.77
2:K:855:ILE:HD13	2:K:856:THR:H	1.49	0.77
1:E:965:TYR:CE1	1:E:1199:LEU:HD22	2.20	0.77
2:G:493:MET:HA	2:G:497:ASP:HB2	1.66	0.77
1:F:729:ILE:HA	1:F:736:LEU:CD2	2.14	0.77
1:F:498:THR:HG21	1:F:858:LEU:HA	1.64	0.77
1:D:729:ILE:HA	1:D:736:LEU:CD2	2.14	0.77
2:H:747:ARG:HH11	2:H:780:SER:HB3	1.48	0.77
2:H:622:MET:SD	2:H:652:ILE:HD11	2.23	0.77
2:I:2052:LYS:HD3	2:I:2074:TRP:HE1	1.46	0.77
2:K:2052:LYS:HD3	2:K:2074:TRP:HE1	1.46	0.77
1:E:1032:MET:CE	1:E:1165:PRO:HB3	2.13	0.77
2:H:1460:THR:HG22	2:H:1462:GLN:H	1.47	0.77
1:D:1342:ARG:HH12	1:D:1347:THR:HB	1.48	0.77
1:B:1278:GLY:HA2	1:B:1630:LYS:HE2	1.66	0.77
2:J:855:ILE:HD13	2:J:856:THR:H	1.50	0.77
2:H:595:SER:HB3	2:H:602:PRO:CG	2.15	0.77
2:J:284:GLY:H	2:J:289:ILE:HD12	1.49	0.77
2:J:747:ARG:HH11	2:J:780:SER:HB3	1.49	0.77
2:L:783:GLY:HA3	2:L:1075:TYR:HB3	1.66	0.77
2:G:1288:PHE:O	2:G:1292:VAL:HG23	1.84	0.77
2:G:1746:THR:HB	2:G:1792:THR:HG23	1.65	0.77
2:L:930:THR:HG22	2:L:933:GLU:HG3	1.66	0.77
2:J:685:VAL:HG12	2:J:687:ILE:HG13	1.65	0.77
2:K:289:ILE:HG23	2:K:490:LEU:HD22	1.66	0.77
2:I:1602:LEU:HG	2:I:1606:ILE:CD1	2.14	0.77
2:H:1602:LEU:HG	2:H:1606:ILE:CD1	2.14	0.77
1:B:1342:ARG:HH12	1:B:1347:THR:HB	1.49	0.77
2:I:856:THR:HG23	2:I:866:HIS:CD2	2.19	0.77
2:H:856:THR:HG23	2:H:866:HIS:CD2	2.18	0.77
2:H:459:LYS:HA	2:H:485:ASP:OD1	1.84	0.77
2:J:376:ARG:HB3	2:J:394:PRO:HG2	1.64	0.77
2:H:579:ARG:HB2	2:H:591:ASP:HB3	1.66	0.77
1:D:1342:ARG:HH11	1:D:1347:THR:HB	1.48	0.77
1:B:1279:ALA:O	1:B:1282:THR:HG23	1.85	0.77
2:I:487:ILE:HB	2:I:488:PRO:HD3	1.66	0.77
2:J:2015:LYS:HB2	2:J:2016:PRO:HD3	1.67	0.77
1:A:777:LEU:O	1:A:781:ILE:HG13	1.85	0.77
2:G:1231:THR:HG23	2:G:1595:VAL:HG21	1.64	0.77
2:G:855:ILE:HD13	2:G:856:THR:H	1.50	0.77
2:G:1700:GLN:HA	2:G:1704:MET:HE1	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1617:ILE:H	1:D:1617:ILE:HD13	1.50	0.77
2:L:300:THR:HB	2:L:303:GLU:H	1.49	0.77
1:E:1224:SER:HB2	1:E:1307:PHE:O	1.85	0.77
2:H:855:ILE:HD13	2:H:856:THR:H	1.49	0.77
2:L:2036:ILE:HG22	2:L:2037:GLY:N	2.00	0.77
2:K:358:ARG:NH2	2:K:383:VAL:HG21	2.00	0.77
2:K:579:ARG:HB2	2:K:591:ASP:HB3	1.65	0.77
1:E:964:LYS:O	1:E:966:PRO:HD3	1.85	0.77
2:L:1460:THR:HG22	2:L:1462:GLN:H	1.50	0.76
1:D:973:TRP:CE2	1:D:1648:LYS:HB2	2.20	0.76
1:A:684:THR:HG23	1:A:686:ARG:H	1.48	0.76
1:A:1278:GLY:HA2	1:A:1630:LYS:HE2	1.67	0.76
2:J:818:THR:HG22	2:J:829:LYS:HB2	1.67	0.76
2:J:493:MET:HA	2:J:497:ASP:HB2	1.67	0.76
2:I:284:GLY:H	2:I:289:ILE:HD12	1.50	0.76
2:J:1764:MET:HB3	2:J:1780:ILE:HD12	1.66	0.76
1:E:440:SER:HB3	1:E:481:LEU:HD23	1.66	0.76
1:C:973:TRP:CE2	1:C:1648:LYS:HB2	2.20	0.76
2:I:747:ARG:HH11	2:I:780:SER:HB3	1.50	0.76
2:H:1915:LEU:HD21	2:H:1939:LEU:HD22	1.66	0.76
2:I:1460:THR:HG22	2:I:1462:GLN:H	1.50	0.76
2:H:487:ILE:HB	2:H:488:PRO:HD3	1.66	0.76
2:K:1181:PHE:CE1	2:K:1191:PRO:HD2	2.20	0.76
1:D:824:LEU:HB3	1:D:839:ILE:CD1	2.14	0.76
2:L:818:THR:HG22	2:L:829:LYS:HB2	1.64	0.76
2:J:1339:GLY:HA2	2:L:376:ARG:HE	1.50	0.76
2:J:914:TRP:NE1	2:J:916:GLY:HA3	2.00	0.76
1:B:1490:GLY:O	1:B:1509:THR:HB	1.84	0.76
2:G:207:LEU:O	2:G:211:LEU:HG	1.85	0.76
2:L:284:GLY:H	2:L:289:ILE:HD12	1.49	0.76
2:L:2059:HIS:CE1	2:L:2068:ALA:HB2	2.21	0.76
2:H:336:LEU:O	2:H:340:VAL:HG23	1.86	0.76
2:G:2057:GLU:HA	2:G:2060:ARG:NH1	2.00	0.76
1:D:1443:LEU:CD2	1:D:1470:ARG:HB3	2.08	0.76
2:H:376:ARG:HB3	2:H:394:PRO:HG2	1.65	0.76
1:D:777:LEU:O	1:D:781:ILE:HG13	1.85	0.76
2:J:1289:TYR:CG	2:J:1370:LEU:HD23	2.20	0.76
1:E:955:VAL:HG21	2:K:964:ARG:HH21	1.49	0.76
2:L:674:ILE:HD13	2:L:705:TYR:CE2	2.20	0.76
1:B:973:TRP:CE2	1:B:1648:LYS:HB2	2.20	0.76
2:I:2015:LYS:HB2	2:I:2016:PRO:HD3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1700:GLN:HA	2:L:1704:MET:HE1	1.65	0.76
1:C:392:ASP:HB3	1:C:395:LYS:HD2	1.65	0.76
1:C:1674:ILE:HD12	2:I:1010:ALA:HB3	1.68	0.76
2:G:420:PRO:HG3	2:G:847:TYR:CD1	2.21	0.76
1:A:365:GLN:HG3	1:F:365:GLN:CG	2.16	0.76
2:G:487:ILE:HB	2:G:488:PRO:HD3	1.68	0.76
1:E:1617:ILE:HD13	1:E:1617:ILE:H	1.50	0.76
1:A:565:GLN:HG3	1:F:551:LEU:HD11	1.66	0.76
1:B:965:TYR:CZ	1:B:1199:LEU:HD22	2.21	0.76
2:K:622:MET:SD	2:K:652:ILE:HD11	2.26	0.76
1:B:1107:GLU:HB2	1:D:1104:GLN:OE1	1.85	0.76
2:K:459:LYS:HA	2:K:485:ASP:OD1	1.85	0.76
2:J:2059:HIS:CE1	2:J:2068:ALA:HB2	2.21	0.76
2:J:1602:LEU:HG	2:J:1606:ILE:HD11	1.66	0.76
1:B:1565:PRO:HG3	1:B:1572:TRP:CZ3	2.20	0.76
2:H:471:ASP:HB3	2:H:474:THR:O	1.86	0.76
1:B:562:SER:HB3	1:E:551:LEU:HD21	1.66	0.76
1:B:1342:ARG:HH11	1:B:1347:THR:HB	1.49	0.76
2:L:1194:ARG:CG	2:L:1194:ARG:HH11	1.86	0.76
2:K:2037:GLY:HA2	2:K:2048:PHE:O	1.86	0.76
2:H:2059:HIS:CE1	2:H:2068:ALA:HB2	2.20	0.76
2:J:1340:LYS:CE	2:L:376:ARG:HH22	1.98	0.76
2:G:1867:MET:O	2:G:2003:VAL:HG21	1.86	0.76
1:E:1213:VAL:HG22	1:E:1300:ARG:NH2	2.01	0.76
1:B:1149:LEU:HB2	1:D:1149:LEU:HB2	1.68	0.76
2:H:571:ASP:OD1	2:H:573:VAL:HG23	1.85	0.76
1:E:632:LEU:HA	1:E:635:ILE:HG22	1.68	0.76
2:J:487:ILE:HB	2:J:488:PRO:HD3	1.67	0.76
2:G:1764:MET:HB3	2:G:1780:ILE:HD12	1.68	0.76
1:C:1443:LEU:O	1:C:1447:VAL:HG23	1.85	0.76
2:K:1617:ARG:HB2	2:K:1635:TYR:CZ	2.20	0.76
2:L:911:GLN:HE21	2:L:1064:THR:HG23	1.50	0.76
2:I:440:HIS:CD2	2:I:499:VAL:HG23	2.21	0.76
2:J:1770:ASN:HB2	2:J:1776:LYS:HE2	1.67	0.76
2:L:579:ARG:HB2	2:L:591:ASP:HB3	1.66	0.76
2:I:783:GLY:HA3	2:I:1075:TYR:HB3	1.67	0.75
2:J:1890:ARG:HH22	2:J:1996:ILE:HD11	1.49	0.75
2:K:2015:LYS:HB2	2:K:2016:PRO:HD3	1.66	0.75
1:E:1279:ALA:O	1:E:1282:THR:HG23	1.86	0.75
1:C:1342:ARG:HH12	1:C:1347:THR:HB	1.49	0.75
2:I:779:GLY:O	2:I:780:SER:HB2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1425:LEU:HD21	1:A:1429:ARG:HH21	1.51	0.75
1:A:440:SER:HB3	1:A:481:LEU:HD23	1.68	0.75
1:F:440:SER:HB3	1:F:481:LEU:HD23	1.67	0.75
2:K:1884:CYS:HB3	2:K:1936:LEU:HD12	1.67	0.75
2:K:265:CYS:SG	2:K:275:LEU:HD12	2.26	0.75
2:H:590:VAL:HG23	2:H:1091:HIS:NE2	2.01	0.75
1:C:824:LEU:HB3	1:C:839:ILE:CD1	2.15	0.75
2:J:1115:TYR:HB3	2:J:1267:PRO:HB3	1.68	0.75
2:K:1460:THR:HG22	2:K:1462:GLN:H	1.51	0.75
2:L:1884:CYS:HB3	2:L:1936:LEU:HD12	1.68	0.75
2:I:1468:ARG:HH12	2:I:1475:LEU:HB2	1.51	0.75
2:H:709:LEU:H	2:H:709:LEU:HD23	1.51	0.75
1:F:1342:ARG:HH12	1:F:1347:THR:HB	1.50	0.75
2:L:856:THR:HG23	2:L:866:HIS:CD2	2.22	0.75
2:J:595:SER:HB3	2:J:602:PRO:CG	2.15	0.75
1:D:1079:ARG:HH11	1:D:1079:ARG:CG	1.97	0.75
2:K:487:ILE:HB	2:K:488:PRO:HD3	1.67	0.75
2:G:1602:LEU:HG	2:G:1606:ILE:CD1	2.15	0.75
2:K:1602:LEU:HG	2:K:1606:ILE:CD1	2.15	0.75
1:E:1032:MET:HE3	1:E:1165:PRO:HB3	1.66	0.75
2:I:1305:LEU:HD11	2:I:1365:LYS:HD2	1.68	0.75
1:F:973:TRP:CE2	1:F:1648:LYS:HB2	2.22	0.75
2:I:1420:LYS:HG2	2:I:1425:PRO:HA	1.69	0.75
2:H:208:LEU:HD12	2:H:227:ILE:HD11	1.68	0.75
2:I:709:LEU:HD23	2:I:709:LEU:H	1.52	0.75
2:J:374:GLU:HA	2:J:377:HIS:HD2	1.47	0.75
2:H:2052:LYS:HD3	2:H:2074:TRP:CE2	2.21	0.75
1:F:1703:VAL:CG1	1:F:1711:LEU:HB3	2.16	0.75
2:G:685:VAL:HG12	2:G:687:ILE:HG13	1.66	0.75
2:J:674:ILE:HD13	2:J:705:TYR:CE2	2.22	0.75
1:C:1089:TYR:CE1	1:C:1312:GLU:HG3	2.21	0.75
1:B:1183:VAL:HG11	1:B:1187:THR:HG21	1.68	0.75
1:A:392:ASP:HB3	1:A:395:LYS:HD2	1.68	0.75
1:C:767:HIS:CE1	1:D:767:HIS:HE1	2.05	0.75
2:J:2005:PHE:CB	2:J:2010:LEU:HD11	2.17	0.75
2:L:2005:PHE:CB	2:L:2010:LEU:HD11	2.17	0.75
1:D:486:VAL:HG11	1:D:647:GLY:HA3	1.69	0.75
1:E:777:LEU:O	1:E:781:ILE:HG13	1.86	0.75
1:F:1617:ILE:H	1:F:1617:ILE:HD13	1.52	0.75
2:I:376:ARG:HB3	2:I:394:PRO:HG2	1.67	0.75
1:E:452:ILE:HD11	1:E:470:GLY:HA3	1.68	0.75

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1721:ARG:NH2	2:H:1853:ILE:HD12	2.02	0.74
2:I:855:ILE:HD13	2:I:856:THR:H	1.52	0.74
2:K:1289:TYR:CG	2:K:1370:LEU:HD23	2.20	0.74
2:H:1803:THR:HA	2:H:1806:THR:HB	1.68	0.74
2:L:208:LEU:HD12	2:L:227:ILE:HD11	1.68	0.74
2:K:1499:LYS:HG3	2:K:1500:ASN:H	1.53	0.74
1:A:1617:ILE:H	1:A:1617:ILE:HD13	1.53	0.74
1:F:741:ASP:OD1	1:F:793:ARG:HD3	1.86	0.74
2:G:265:CYS:SG	2:G:275:LEU:HD12	2.28	0.74
2:H:2005:PHE:CB	2:H:2010:LEU:HD11	2.18	0.74
2:I:610:PRO:HG3	2:I:1047:LEU:HD22	1.69	0.74
1:A:1342:ARG:HH11	1:A:1347:THR:HB	1.51	0.74
1:B:365:GLN:HG3	1:E:365:GLN:CG	2.17	0.74
1:C:41:THR:HG21	2:I:1691:ALA:HB2	1.70	0.74
1:A:560:LYS:O	1:A:564:LEU:HB2	1.87	0.74
1:E:1052:ASP:OD2	1:E:1055:THR:HG22	1.88	0.74
1:E:1223:GLY:HA3	1:E:1276:PRO:HD2	1.70	0.74
2:H:382:LEU:HB3	2:H:499:VAL:HB	1.68	0.74
2:G:1442:TYR:O	2:G:1445:THR:HG22	1.88	0.74
2:K:1468:ARG:HH12	2:K:1475:LEU:HB2	1.52	0.74
2:K:1845:VAL:HG21	2:K:1856:LEU:HD22	1.69	0.74
2:K:501:TRP:NE1	2:K:528:THR:HG22	2.02	0.74
1:C:528:GLU:O	1:C:611:THR:HG21	1.88	0.74
1:B:486:VAL:HG11	1:B:647:GLY:HA3	1.69	0.74
2:K:1764:MET:HB3	2:K:1780:ILE:HD12	1.70	0.74
2:J:1420:LYS:HG2	2:J:1425:PRO:HA	1.69	0.74
2:G:1844:LEU:HB3	2:G:1850:VAL:HG21	1.70	0.74
1:D:524:LYS:HB3	1:D:528:GLU:OE2	1.88	0.74
2:G:506:VAL:O	2:G:506:VAL:HG12	1.86	0.74
2:G:158:LEU:HD22	2:G:169:ILE:HD11	1.68	0.74
1:E:669:VAL:O	1:E:673:LEU:HD12	1.88	0.74
1:C:767:HIS:HE1	1:D:767:HIS:CE1	2.05	0.74
2:J:1845:VAL:HG21	2:J:1856:LEU:HD22	1.69	0.74
2:H:857:VAL:HG13	2:H:876:TRP:NE1	2.01	0.74
2:I:1770:ASN:HB2	2:I:1776:LYS:HE2	1.70	0.74
2:G:2059:HIS:CE1	2:G:2068:ALA:HB2	2.23	0.73
2:H:1746:THR:HB	2:H:1792:THR:HG23	1.69	0.73
1:F:1032:MET:CE	1:F:1165:PRO:HB3	2.18	0.73
2:G:1985:GLN:O	2:G:1987:VAL:N	2.19	0.73
1:B:608:LYS:O	1:B:610:GLU:HG2	1.88	0.73
2:G:622:MET:SD	2:G:652:ILE:HD11	2.28	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:600:VAL:HG13	2:I:601:PRO:HD2	1.69	0.73
1:A:1107:GLU:HG3	1:A:1108:PRO:HD2	1.68	0.73
2:L:686:PRO:HB3	2:L:1187:PHE:CE1	2.23	0.73
2:K:718:PRO:CG	2:K:727:VAL:HG21	2.18	0.73
2:K:1803:THR:HA	2:K:1806:THR:HB	1.69	0.73
2:L:336:LEU:O	2:L:340:VAL:HG23	1.89	0.73
1:B:1213:VAL:HG22	1:B:1300:ARG:NH2	2.02	0.73
2:K:440:HIS:HD2	2:K:497:ASP:O	1.70	0.73
2:I:779:GLY:HA3	2:I:811:MET:HE3	1.69	0.73
2:H:674:ILE:HD13	2:H:705:TYR:CE2	2.23	0.73
2:G:2015:LYS:HB2	2:G:2016:PRO:HD3	1.69	0.73
2:K:1915:LEU:HD21	2:K:1939:LEU:HD22	1.68	0.73
1:C:1421:ARG:HD2	1:C:1489:PHE:O	1.89	0.73
2:G:1460:THR:HG22	2:G:1462:GLN:H	1.52	0.73
2:I:1891:ILE:HD11	2:I:1943:LEU:HB3	1.69	0.73
2:L:1706:MET:O	2:L:1709:TYR:HB3	1.88	0.73
1:E:1278:GLY:HA2	1:E:1630:LYS:HE2	1.70	0.73
1:A:1443:LEU:O	1:A:1447:VAL:HG23	1.89	0.73
2:G:2052:LYS:HB3	2:G:2074:TRP:CE2	2.22	0.73
2:G:685:VAL:HG23	2:G:1186:ARG:NH1	2.04	0.73
2:H:1499:LYS:HG3	2:H:1500:ASN:H	1.53	0.73
1:C:616:HIS:HA	1:C:633:THR:HG23	1.69	0.73
2:G:1706:MET:O	2:G:1709:TYR:HB3	1.88	0.73
1:A:756:ILE:HA	1:A:759:ILE:HD11	1.69	0.73
1:F:1279:ALA:O	1:F:1282:THR:HG23	1.88	0.73
1:E:1342:ARG:HH11	1:E:1347:THR:HB	1.53	0.73
2:L:595:SER:HB3	2:L:602:PRO:CG	2.15	0.73
2:K:743:TRP:CG	2:K:761:ILE:HD11	2.24	0.73
2:J:783:GLY:HA3	2:J:1075:TYR:HB3	1.68	0.73
1:A:1504:ARG:NH1	1:A:1504:ARG:CG	2.45	0.73
2:G:420:PRO:HG3	2:G:847:TYR:HD1	1.53	0.73
2:J:2037:GLY:HA2	2:J:2048:PHE:O	1.88	0.73
2:H:43:PHE:HB2	2:I:22:ARG:HH21	1.52	0.73
1:B:633:THR:HG22	1:B:637:LEU:HD12	1.69	0.73
1:D:392:ASP:HB3	1:D:395:LYS:HD2	1.70	0.73
1:A:1213:VAL:HG22	1:A:1300:ARG:NH2	2.04	0.73
2:G:903:ILE:HD11	2:G:914:TRP:CE2	2.24	0.73
2:J:1460:THR:HG22	2:J:1462:GLN:H	1.52	0.73
2:K:930:THR:HG22	2:K:933:GLU:HG3	1.70	0.73
2:L:622:MET:SD	2:L:652:ILE:HD11	2.29	0.73
2:J:158:LEU:HD22	2:J:169:ILE:HD11	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1617:ARG:HB2	2:G:1635:TYR:CZ	2.23	0.73
2:I:1499:LYS:HG3	2:I:1500:ASN:H	1.54	0.73
2:L:709:LEU:HD23	2:L:709:LEU:H	1.54	0.73
1:B:1052:ASP:OD2	1:B:1055:THR:HG22	1.89	0.73
1:B:423:ARG:O	1:B:429:ILE:HD11	1.88	0.73
1:A:1094:LYS:HE3	1:A:1316:TYR:CD1	2.24	0.73
1:D:1703:VAL:HG11	1:D:1711:LEU:HB3	1.71	0.73
1:E:532:ILE:HG22	1:E:907:PHE:CG	2.24	0.73
2:K:779:GLY:O	2:K:780:SER:HB2	1.87	0.73
2:L:1868:GLN:HG2	2:L:1873:ARG:NH2	2.03	0.73
1:C:632:LEU:HA	1:C:635:ILE:HG22	1.69	0.73
1:B:632:LEU:HA	1:B:635:ILE:HG22	1.68	0.73
2:J:365:ILE:HG23	2:J:378:ILE:HG22	1.71	0.73
2:L:1770:ASN:HB2	2:L:1776:LYS:HE2	1.70	0.73
1:D:452:ILE:HD11	1:D:470:GLY:HA3	1.69	0.73
2:I:590:VAL:HG23	2:I:1091:HIS:NE2	2.04	0.73
1:F:1443:LEU:O	1:F:1447:VAL:HG23	1.88	0.73
2:K:300:THR:HB	2:K:303:GLU:H	1.52	0.73
1:A:452:ILE:HD11	1:A:470:GLY:HA3	1.70	0.73
2:I:1918:VAL:HG13	2:I:2006:HIS:HB2	1.69	0.73
2:I:1721:ARG:NH2	2:I:1853:ILE:HD12	2.04	0.73
1:E:1443:LEU:O	1:E:1447:VAL:HG23	1.88	0.73
2:I:420:PRO:HG3	2:I:847:TYR:CD1	2.24	0.73
2:J:622:MET:SD	2:J:652:ILE:HD11	2.29	0.73
2:I:2052:LYS:HB3	2:I:2074:TRP:CE2	2.24	0.73
1:A:1107:GLU:HB2	1:E:1104:GLN:OE1	1.89	0.73
1:C:1107:GLU:HB2	1:F:1104:GLN:OE1	1.89	0.73
2:J:791:TYR:HA	2:J:796:TRP:HD1	1.53	0.73
2:K:1420:LYS:HG2	2:K:1425:PRO:HA	1.71	0.73
2:K:461:PRO:HA	2:K:484:GLU:O	1.89	0.72
2:I:818:THR:HG22	2:I:829:LYS:HB2	1.69	0.72
1:E:1443:LEU:CD2	1:E:1470:ARG:HB3	2.07	0.72
2:L:461:PRO:HA	2:L:484:GLU:O	1.89	0.72
2:L:501:TRP:NE1	2:L:528:THR:HG22	2.03	0.72
2:G:1890:ARG:HH22	2:G:1996:ILE:CD1	2.01	0.72
2:K:1053:ILE:HD12	2:K:1061:VAL:HG22	1.70	0.72
2:L:471:ASP:HB3	2:L:474:THR:O	1.89	0.72
1:B:1363:MET:HE1	1:B:1373:VAL:HG21	1.71	0.72
2:K:1721:ARG:NH2	2:K:1853:ILE:HD12	2.05	0.72
1:A:1052:ASP:OD2	1:A:1055:THR:HG22	1.88	0.72
2:I:609:THR:OG1	2:I:610:PRO:HD3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:ARG:HH12	1:A:492:ILE:HG23	1.54	0.72
2:H:930:THR:HG22	2:H:933:GLU:HG3	1.70	0.72
2:L:1499:LYS:HG3	2:L:1500:ASN:H	1.55	0.72
1:E:392:ASP:HB3	1:E:395:LYS:HD2	1.71	0.72
1:D:1052:ASP:OD2	1:D:1055:THR:HG22	1.89	0.72
1:E:978:LYS:HB3	1:E:979:PRO:HD3	1.70	0.72
2:I:471:ASP:HB3	2:I:474:THR:O	1.89	0.72
2:H:1301:PHE:HB3	2:H:1364:ARG:HG3	1.70	0.72
1:C:1443:LEU:CD2	1:C:1470:ARG:HB3	2.10	0.72
2:J:158:LEU:HA	2:J:566:VAL:HG21	1.70	0.72
2:K:2052:LYS:HB3	2:K:2074:TRP:CE2	2.25	0.72
1:E:613:PRO:O	1:E:615:LEU:N	2.22	0.72
2:H:1053:ILE:HD12	2:H:1061:VAL:HG22	1.72	0.72
2:H:942:MET:CE	2:H:955:LEU:HB3	2.20	0.72
2:K:2005:PHE:CB	2:K:2010:LEU:HD11	2.18	0.72
1:B:964:LYS:O	1:B:966:PRO:HD3	1.89	0.72
2:J:1178:THR:HG22	2:J:1180:VAL:H	1.55	0.72
2:J:1053:ILE:HD12	2:J:1061:VAL:HG22	1.70	0.72
2:J:489:GLU:HA	2:J:492:ARG:NH1	2.04	0.72
1:B:669:VAL:O	1:B:673:LEU:HD12	1.90	0.72
2:G:590:VAL:HG23	2:G:1091:HIS:NE2	2.04	0.72
2:L:1845:VAL:HG21	2:L:1856:LEU:HD22	1.71	0.72
1:F:41:THR:HG21	2:L:1691:ALA:HB2	1.71	0.72
2:H:1833:PHE:CZ	2:H:2039:TYR:HB2	2.24	0.72
2:H:1764:MET:HB3	2:H:1780:ILE:HD12	1.71	0.72
2:G:314:LEU:HG	2:G:318:ILE:HD11	1.71	0.72
2:K:1114:GLU:HB3	2:K:1169:TYR:HB3	1.71	0.72
2:L:1764:MET:HB3	2:L:1780:ILE:HD12	1.71	0.72
2:G:358:ARG:NH2	2:G:383:VAL:HG21	2.05	0.72
2:H:1074:LYS:HE3	2:H:1075:TYR:HE1	1.54	0.72
1:B:408:GLN:HG2	1:B:1610:ARG:HH12	1.55	0.72
1:A:1104:GLN:OE1	1:E:1107:GLU:HB2	1.89	0.72
2:K:791:TYR:HA	2:K:796:TRP:HD1	1.54	0.72
1:C:1674:ILE:HD11	2:I:1011:GLN:HG3	1.70	0.72
1:C:684:THR:HG23	1:C:686:ARG:H	1.53	0.72
2:G:1331:THR:HG22	2:I:329:THR:HA	1.71	0.72
2:K:1985:GLN:O	2:K:1987:VAL:N	2.20	0.72
2:K:911:GLN:HE21	2:K:1064:THR:HG23	1.53	0.72
2:L:930:THR:HG23	2:L:933:GLU:H	1.55	0.72
2:K:190:TYR:HD1	2:K:201:ILE:HD13	1.55	0.72
2:K:590:VAL:HG23	2:K:1091:HIS:NE2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:251:PRO:HG3	2:H:316:PHE:HA	1.71	0.72
2:K:314:LEU:HG	2:K:318:ILE:HD11	1.72	0.72
2:G:289:ILE:HG12	2:G:493:MET:HE1	1.71	0.72
1:C:767:HIS:HB2	1:C:813:LEU:HD12	1.72	0.72
1:D:30:GLU:HB2	2:J:2045:ALA:HB1	1.69	0.72
2:L:358:ARG:HH21	2:L:383:VAL:HG21	1.54	0.72
2:L:1181:PHE:CE1	2:L:1191:PRO:HD2	2.24	0.72
2:J:1181:PHE:CE1	2:J:1191:PRO:HD2	2.25	0.72
2:H:327:PRO:CD	2:I:1338:ARG:HH21	2.02	0.72
2:K:914:TRP:NE1	2:K:916:GLY:HA3	2.05	0.72
2:H:783:GLY:HA3	2:H:1075:TYR:HB3	1.70	0.72
1:D:1674:ILE:HD11	2:J:1011:GLN:HG3	1.71	0.72
2:G:2005:PHE:CB	2:G:2010:LEU:HD11	2.19	0.72
1:E:539:THR:O	1:E:542:GLN:HG2	1.90	0.72
2:J:2052:LYS:HD3	2:J:2074:TRP:CE2	2.24	0.71
2:G:289:ILE:HG23	2:G:490:LEU:HD22	1.72	0.71
2:J:1891:ILE:HD11	2:J:1943:LEU:HB3	1.72	0.71
2:I:493:MET:HA	2:I:497:ASP:HB2	1.71	0.71
2:I:1884:CYS:HB3	2:I:1936:LEU:HD12	1.70	0.71
1:F:1213:VAL:HG22	1:F:1300:ARG:NH2	2.04	0.71
1:A:617:LEU:N	1:A:617:LEU:HD23	2.05	0.71
2:L:506:VAL:O	2:L:506:VAL:HG12	1.90	0.71
1:C:486:VAL:HG11	1:C:647:GLY:HA3	1.70	0.71
1:B:427:ARG:NH1	1:B:492:ILE:HG23	1.99	0.71
2:J:1194:ARG:HH11	2:J:1194:ARG:CG	1.82	0.71
1:A:365:GLN:CG	1:F:365:GLN:HG3	2.19	0.71
2:K:2036:ILE:HG22	2:K:2037:GLY:N	2.05	0.71
2:L:448:HIS:CD2	2:L:491:VAL:HG12	2.26	0.71
2:G:918:ASN:HB3	2:G:924:VAL:HG21	1.71	0.71
2:J:663:ILE:H	2:J:663:ILE:HD12	1.56	0.71
1:F:553:ARG:HH22	1:F:563:GLN:HB3	1.55	0.71
1:E:1674:ILE:HD11	2:K:1011:GLN:HG3	1.72	0.71
1:E:633:THR:HG22	1:E:637:LEU:HD12	1.72	0.71
2:G:2052:LYS:HD3	2:G:2074:TRP:CE2	2.25	0.71
2:G:600:VAL:HG13	2:G:601:PRO:HD2	1.72	0.71
1:C:535:TYR:CD1	1:C:610:GLU:N	2.58	0.71
2:K:857:VAL:CG1	2:K:876:TRP:NE1	2.53	0.71
1:B:905:LEU:HD22	1:B:911:LEU:HD21	1.73	0.71
2:I:251:PRO:HG3	2:I:316:PHE:HA	1.72	0.71
1:D:632:LEU:HA	1:D:635:ILE:HG22	1.71	0.71
2:J:347:PRO:HA	2:J:432:PHE:CD1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:965:TYR:CZ	1:F:1199:LEU:HD22	2.24	0.71
2:I:1915:LEU:HD21	2:I:1939:LEU:HD22	1.70	0.71
2:I:1706:MET:O	2:I:1709:TYR:HB3	1.89	0.71
1:B:365:GLN:CG	1:E:365:GLN:HG3	2.18	0.71
2:L:917:ARG:HG2	2:L:937:ARG:NH1	2.06	0.71
2:K:1499:LYS:HG3	2:K:1500:ASN:N	2.05	0.71
2:J:1340:LYS:CG	2:L:376:ARG:NH2	2.53	0.71
2:H:1499:LYS:HG3	2:H:1500:ASN:N	2.06	0.71
2:J:327:PRO:CD	2:K:1338:ARG:HH21	2.04	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:N	2.06	0.71
2:J:743:TRP:CG	2:J:761:ILE:HD11	2.25	0.71
2:J:779:GLY:O	2:J:780:SER:HB2	1.90	0.71
1:E:955:VAL:HG11	2:K:964:ARG:HE	1.54	0.71
1:D:767:HIS:HB2	1:D:813:LEU:HD12	1.71	0.71
1:F:486:VAL:HG11	1:F:647:GLY:HA3	1.73	0.71
2:I:336:LEU:O	2:I:340:VAL:HG23	1.91	0.71
1:D:964:LYS:O	1:D:966:PRO:HD3	1.89	0.71
1:F:1094:LYS:HE3	1:F:1316:TYR:CD1	2.24	0.71
1:A:964:LYS:O	1:A:966:PRO:HD3	1.91	0.71
1:D:560:LYS:O	1:D:564:LEU:HB2	1.89	0.71
2:K:656:ARG:HH11	2:K:656:ARG:HG2	1.55	0.71
2:J:2052:LYS:HB3	2:J:2074:TRP:CE2	2.25	0.71
2:L:2052:LYS:HD3	2:L:2074:TRP:CE2	2.24	0.71
1:F:632:LEU:HA	1:F:635:ILE:HG22	1.73	0.71
1:B:961:ALA:CB	1:B:1022:LEU:HD12	2.20	0.71
2:G:1499:LYS:HG3	2:G:1500:ASN:H	1.54	0.71
2:G:1289:TYR:CG	2:G:1370:LEU:HD23	2.25	0.71
2:I:506:VAL:HG12	2:I:506:VAL:O	1.90	0.71
2:J:609:THR:OG1	2:J:610:PRO:HD3	1.91	0.71
2:G:2036:ILE:HG22	2:G:2037:GLY:N	2.05	0.71
1:C:1079:ARG:HH11	1:C:1079:ARG:CG	2.02	0.71
2:H:1617:ARG:HB2	2:H:1635:TYR:CZ	2.24	0.71
2:L:1053:ILE:HD12	2:L:1061:VAL:HG22	1.71	0.71
2:I:2059:HIS:CE1	2:I:2068:ALA:HB2	2.24	0.71
2:K:448:HIS:CD2	2:K:491:VAL:HG12	2.26	0.71
2:J:1074:LYS:HE3	2:J:1075:TYR:HE1	1.56	0.71
1:C:890:ASN:OD1	2:J:1755:LYS:HE2	1.90	0.71
1:A:339:GLN:O	1:A:343:ILE:HG13	1.90	0.71
2:H:1420:LYS:HG2	2:H:1425:PRO:HA	1.72	0.71
2:H:358:ARG:HH21	2:H:383:VAL:HG21	1.55	0.71
2:L:1803:THR:HA	2:L:1806:THR:HB	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:538:ARG:HA	1:C:585:MET:HE1	1.73	0.71
2:G:613:VAL:CG1	2:G:614:PRO:HD3	2.20	0.71
2:L:1007:LEU:HD12	2:L:1007:LEU:N	2.06	0.71
2:L:930:THR:HG22	2:L:933:GLU:CG	2.20	0.71
1:B:567:ASN:HA	1:B:570:TYR:HB3	1.72	0.71
1:B:767:HIS:HB2	1:B:813:LEU:HD12	1.73	0.71
2:H:1610:MET:HA	2:H:1610:MET:HE2	1.70	0.71
1:C:1081:ILE:HA	1:C:1163:GLN:HE22	1.55	0.71
1:D:1421:ARG:HD2	1:D:1489:PHE:O	1.90	0.71
1:D:1081:ILE:HA	1:D:1163:GLN:HE22	1.53	0.71
1:C:1270:THR:HA	1:F:1386:THR:O	1.90	0.71
2:G:638:ALA:HA	2:G:672:TRP:CZ3	2.26	0.71
2:J:1506:SER:HA	2:J:1533:GLY:HA2	1.72	0.71
1:A:859:VAL:HG12	1:A:863:VAL:HG23	1.72	0.71
1:A:1317:GLU:HG3	1:E:1250:LEU:HB2	1.73	0.71
1:A:978:LYS:HB3	1:A:979:PRO:HD3	1.71	0.71
1:F:427:ARG:NH1	1:F:492:ILE:HG23	1.98	0.71
2:K:942:MET:CE	2:K:955:LEU:HB3	2.20	0.71
1:D:616:HIS:HA	1:D:633:THR:HG23	1.70	0.71
2:G:930:THR:HG22	2:G:933:GLU:HG3	1.72	0.71
2:L:1499:LYS:HG3	2:L:1500:ASN:N	2.06	0.71
2:L:1891:ILE:HD11	2:L:1943:LEU:HB3	1.72	0.71
1:A:423:ARG:O	1:A:429:ILE:HD11	1.91	0.71
2:I:1833:PHE:CZ	2:I:2039:TYR:HB2	2.26	0.71
2:G:1833:PHE:CZ	2:G:2039:TYR:HB2	2.25	0.71
1:E:423:ARG:O	1:E:429:ILE:HD11	1.90	0.71
2:J:358:ARG:HH21	2:J:383:VAL:HG21	1.55	0.71
1:F:1443:LEU:CD2	1:F:1470:ARG:HB3	2.11	0.71
2:H:461:PRO:HA	2:H:484:GLU:O	1.90	0.71
1:C:1104:GLN:OE1	1:F:1107:GLU:HB2	1.91	0.71
2:H:779:GLY:O	2:H:780:SER:HB2	1.90	0.71
2:J:1370:LEU:HD12	2:J:1373:LEU:HD13	1.73	0.71
1:B:1386:THR:O	1:D:1270:THR:HA	1.90	0.71
1:C:1278:GLY:HA2	1:C:1630:LYS:HE2	1.71	0.71
2:H:917:ARG:HG2	2:H:937:ARG:NH1	2.06	0.71
2:K:162:ALA:HA	2:K:167:VAL:HG22	1.73	0.71
2:H:2037:GLY:HA2	2:H:2048:PHE:O	1.91	0.71
2:I:472:THR:H	2:I:493:MET:HE3	1.55	0.71
2:L:1074:LYS:HE3	2:L:1075:TYR:HE1	1.55	0.71
2:I:1053:ILE:HD12	2:I:1061:VAL:HG22	1.73	0.71
2:H:358:ARG:NH2	2:H:383:VAL:HG21	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1348:PHE:O	2:K:1351:VAL:HG12	1.89	0.71
2:L:1420:LYS:HG2	2:L:1425:PRO:HA	1.71	0.71
1:B:1223:GLY:HA3	1:B:1276:PRO:HD2	1.73	0.71
2:L:314:LEU:HG	2:L:318:ILE:HD11	1.73	0.70
2:L:489:GLU:HA	2:L:492:ARG:NH1	2.04	0.70
2:G:447:ALA:O	2:G:451:ILE:HG13	1.91	0.70
2:G:1232:VAL:HG12	2:G:1246:LEU:HD23	1.73	0.70
1:A:1431:GLN:OE1	1:E:1431:GLN:HG2	1.90	0.70
1:E:424:VAL:HG13	1:E:469:LEU:HD11	1.71	0.70
2:G:579:ARG:HB2	2:G:591:ASP:HB3	1.73	0.70
2:L:1833:PHE:CZ	2:L:2039:TYR:HB2	2.25	0.70
2:H:1706:MET:O	2:H:1709:TYR:HB3	1.91	0.70
2:H:609:THR:OG1	2:H:610:PRO:HD3	1.90	0.70
2:L:610:PRO:CD	4:L:2101:FMN:H6	2.17	0.70
2:H:930:THR:HG23	2:H:933:GLU:H	1.55	0.70
2:K:1074:LYS:HE3	2:K:1075:TYR:HE1	1.56	0.70
2:K:358:ARG:HB2	2:K:389:PHE:CZ	2.26	0.70
2:H:48:LEU:CD1	2:H:101:VAL:HG11	2.21	0.70
2:G:347:PRO:HA	2:G:432:PHE:CD1	2.26	0.70
2:J:48:LEU:CD1	2:J:101:VAL:HG11	2.21	0.70
2:I:1845:VAL:HG21	2:I:1856:LEU:HD22	1.73	0.70
1:F:1081:ILE:HA	1:F:1163:GLN:HE22	1.56	0.70
1:D:1342:ARG:HB2	1:D:1345:SER:HB2	1.74	0.70
1:A:616:HIS:HA	1:A:633:THR:HG23	1.72	0.70
2:K:250:PHE:HB2	2:K:251:PRO:HD3	1.73	0.70
2:K:251:PRO:HG3	2:K:316:PHE:HA	1.71	0.70
2:I:1612:THR:O	2:I:1616:VAL:HG12	1.91	0.70
1:A:962:ASN:HB3	2:G:969:ARG:HD2	1.73	0.70
2:L:779:GLY:O	2:L:780:SER:HB2	1.89	0.70
2:I:314:LEU:HG	2:I:318:ILE:HD11	1.73	0.70
2:I:289:ILE:HG23	2:I:490:LEU:HD22	1.73	0.70
1:E:1617:ILE:N	1:E:1617:ILE:HD13	2.06	0.70
2:J:709:LEU:HD23	2:J:709:LEU:H	1.55	0.70
2:H:1802:ALA:HB1	2:H:1804:GLN:HE22	1.56	0.70
1:A:1342:ARG:HH12	1:A:1347:THR:HB	1.55	0.70
2:I:501:TRP:NE1	2:I:528:THR:HG22	2.04	0.70
1:B:501:ASP:HB3	1:B:505:ASN:HB2	1.74	0.70
1:B:1421:ARG:HD2	1:B:1489:PHE:O	1.91	0.70
1:A:1224:SER:HB2	1:A:1307:PHE:O	1.92	0.70
1:A:541:VAL:O	1:A:545:LEU:HG	1.91	0.70
2:J:1803:THR:HA	2:J:1806:THR:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1594:ARG:HH11	2:I:1594:ARG:CG	1.95	0.70
2:J:656:ARG:HH11	2:J:656:ARG:HG2	1.56	0.70
1:C:1617:ILE:N	1:C:1617:ILE:HD13	2.05	0.70
1:B:1617:ILE:N	1:B:1617:ILE:HD13	2.06	0.70
2:G:1074:LYS:HE3	2:G:1075:TYR:HE1	1.57	0.70
2:G:1803:THR:HA	2:G:1806:THR:HB	1.72	0.70
2:G:573:VAL:HG22	2:G:804:PRO:HB2	1.73	0.70
2:G:709:LEU:H	2:G:709:LEU:HD23	1.55	0.70
2:H:600:VAL:HG13	2:H:601:PRO:CD	2.22	0.70
1:F:633:THR:HG22	1:F:637:LEU:HD12	1.74	0.70
2:L:854:VAL:CG2	2:L:1070:PRO:HA	2.21	0.70
2:I:448:HIS:CD2	2:I:491:VAL:HG12	2.23	0.70
1:C:1425:LEU:HD21	1:C:1429:ARG:HH21	1.57	0.70
1:C:423:ARG:O	1:C:429:ILE:HD11	1.91	0.70
2:L:638:ALA:HA	2:L:672:TRP:CZ3	2.27	0.70
2:K:609:THR:OG1	2:K:610:PRO:HD3	1.92	0.70
2:I:2036:ILE:HG22	2:I:2037:GLY:N	2.06	0.70
2:K:293:ALA:HA	2:K:469:VAL:HG21	1.74	0.70
1:B:1214:HIS:HD2	1:B:1216:SER:OG	1.75	0.70
1:E:1068:TYR:O	1:E:1072:ILE:HG13	1.91	0.70
2:H:1888:PRO:HG3	2:H:1900:LEU:HD12	1.73	0.70
1:F:392:ASP:HB3	1:F:395:LYS:HD2	1.73	0.70
1:E:1089:TYR:CE1	1:E:1312:GLU:HG3	2.27	0.70
1:C:567:ASN:HA	1:C:570:TYR:HB3	1.74	0.70
1:C:1697:LEU:HD21	1:F:1401:LEU:HD22	1.74	0.70
2:K:1833:PHE:CZ	2:K:2039:TYR:HB2	2.26	0.70
2:L:251:PRO:HG3	2:L:316:PHE:HA	1.72	0.70
1:D:633:THR:HG22	1:D:637:LEU:HD12	1.73	0.70
2:K:172:ILE:HD11	2:K:501:TRP:CZ2	2.26	0.70
2:I:524:ILE:HG22	2:I:528:THR:HG23	1.73	0.70
2:I:914:TRP:NE1	2:I:916:GLY:HA3	2.07	0.70
2:G:914:TRP:NE1	2:G:916:GLY:HA3	2.07	0.70
2:G:1084:LYS:O	2:G:1088:ASP:HB2	1.91	0.70
2:I:1985:GLN:O	2:I:1987:VAL:N	2.22	0.70
2:H:1867:MET:O	2:H:2003:VAL:HG21	1.92	0.70
1:A:1089:TYR:CE1	1:A:1312:GLU:HG3	2.25	0.70
1:B:1270:THR:HA	1:D:1386:THR:O	1.92	0.70
1:E:1702:ARG:CG	1:E:1702:ARG:NH1	2.44	0.70
2:G:917:ARG:HG2	2:G:937:ARG:NH1	2.06	0.70
2:J:501:TRP:NE1	2:J:528:THR:HG22	2.04	0.70
2:G:854:VAL:CG2	2:G:1070:PRO:HA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1499:LYS:HG3	2:J:1500:ASN:H	1.57	0.70
1:C:964:LYS:O	1:C:966:PRO:HD3	1.91	0.70
2:I:1421:ARG:HD2	2:I:1426:VAL:HG21	1.74	0.70
2:J:638:ALA:HA	2:J:672:TRP:CZ3	2.27	0.70
2:J:336:LEU:O	2:J:340:VAL:HG23	1.92	0.70
2:H:718:PRO:HG2	2:H:727:VAL:HG21	1.72	0.70
2:I:656:ARG:HH11	2:I:656:ARG:HG2	1.55	0.70
2:H:284:GLY:H	2:H:289:ILE:HD12	1.57	0.70
2:J:448:HIS:CD2	2:J:491:VAL:HG12	2.26	0.70
1:D:961:ALA:CB	1:D:1022:LEU:HD12	2.22	0.70
2:I:158:LEU:HA	2:I:566:VAL:HG21	1.74	0.70
1:A:767:HIS:HB2	1:A:813:LEU:HD12	1.73	0.70
1:A:424:VAL:HG13	1:A:469:LEU:HD11	1.72	0.70
2:G:911:GLN:HE21	2:G:1064:THR:HG23	1.57	0.70
1:E:1342:ARG:HH12	1:E:1347:THR:HB	1.52	0.69
2:H:158:LEU:HD22	2:H:169:ILE:HD11	1.74	0.69
2:K:1084:LYS:O	2:K:1088:ASP:HB2	1.92	0.69
1:E:628:TYR:CZ	1:E:630:LYS:HG2	2.27	0.69
2:I:938:MET:HE1	2:I:959:THR:HA	1.74	0.69
2:J:930:THR:HG22	2:J:933:GLU:HG3	1.72	0.69
2:L:867:LYS:HD3	2:L:1065:CYS:SG	2.31	0.69
2:I:1442:TYR:O	2:I:1445:THR:HG22	1.92	0.69
1:F:756:ILE:HA	1:F:759:ILE:HD11	1.74	0.69
1:F:767:HIS:HB2	1:F:813:LEU:HD12	1.72	0.69
2:L:358:ARG:NH2	2:L:383:VAL:HG21	2.06	0.69
1:E:486:VAL:HG11	1:E:647:GLY:HA3	1.74	0.69
1:C:1183:VAL:HG11	1:C:1187:THR:HG21	1.74	0.69
2:J:718:PRO:CG	2:J:727:VAL:HG21	2.21	0.69
2:H:1770:ASN:HB2	2:H:1776:LYS:HE2	1.72	0.69
1:A:405:TRP:CZ3	1:A:1609:SER:HB3	2.27	0.69
2:L:289:ILE:HG23	2:L:490:LEU:HD22	1.72	0.69
2:G:610:PRO:O	2:G:613:VAL:HG12	1.91	0.69
2:H:930:THR:HG22	2:H:933:GLU:CG	2.22	0.69
1:A:613:PRO:HG2	1:A:633:THR:HG21	1.73	0.69
2:I:1181:PHE:CE1	2:I:1191:PRO:HD2	2.27	0.69
2:I:930:THR:HG23	2:I:933:GLU:H	1.56	0.69
2:J:461:PRO:HA	2:J:484:GLU:O	1.92	0.69
1:D:486:VAL:CG1	1:D:647:GLY:HA3	2.22	0.69
2:J:1985:GLN:C	2:J:1987:VAL:H	1.96	0.69
2:G:358:ARG:HH21	2:G:383:VAL:HG21	1.55	0.69
1:C:1703:VAL:HG11	1:C:1711:LEU:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1224:SER:HB2	1:C:1307:PHE:O	1.93	0.69
2:I:1803:THR:HA	2:I:1806:THR:HB	1.73	0.69
1:C:562:SER:HB3	1:D:551:LEU:HD21	1.73	0.69
2:J:1468:ARG:HH12	2:J:1475:LEU:HB2	1.56	0.69
2:L:917:ARG:HD3	2:L:937:ARG:NH2	2.07	0.69
1:E:1079:ARG:HH11	1:E:1079:ARG:CG	2.04	0.69
2:H:663:ILE:H	2:H:663:ILE:HD12	1.57	0.69
1:D:1663:LYS:HG2	2:J:1007:LEU:HD11	1.74	0.69
2:H:1189:THR:O	2:H:1191:PRO:HD3	1.93	0.69
2:J:1602:LEU:HG	2:J:1606:ILE:CD1	2.22	0.69
2:J:741:LEU:O	2:J:741:LEU:HG	1.92	0.69
2:K:1795:SER:HB3	2:K:1799:LEU:HD12	1.75	0.69
2:I:718:PRO:HG2	2:I:727:VAL:HG21	1.74	0.69
2:L:289:ILE:HG12	2:L:493:MET:HE1	1.73	0.69
2:I:2052:LYS:HD3	2:I:2074:TRP:CE2	2.26	0.69
2:K:2052:LYS:HD3	2:K:2074:TRP:CE2	2.26	0.69
2:H:2036:ILE:HG22	2:H:2037:GLY:N	2.07	0.69
1:A:542:GLN:HB3	1:A:579:MET:SD	2.33	0.69
2:I:918:ASN:HB3	2:I:924:VAL:HG21	1.75	0.69
2:J:718:PRO:HG2	2:J:727:VAL:HG21	1.73	0.69
2:H:1090:ILE:O	2:H:1094:HIS:HD2	1.75	0.69
2:G:336:LEU:O	2:G:340:VAL:HG23	1.93	0.69
1:D:330:LYS:HG3	1:D:333:ARG:NH1	2.07	0.69
2:K:336:LEU:O	2:K:340:VAL:HG23	1.91	0.69
2:G:1506:SER:HA	2:G:1533:GLY:HA2	1.74	0.69
1:B:1470:ARG:O	1:B:1474:ILE:HG13	1.93	0.69
2:L:609:THR:OG1	2:L:610:PRO:HD3	1.92	0.69
2:L:600:VAL:HG13	2:L:601:PRO:CD	2.22	0.69
1:C:1702:ARG:CG	1:C:1702:ARG:NH1	2.41	0.69
1:C:1413:SER:HA	1:C:1499:ARG:HH22	1.58	0.69
2:L:857:VAL:CG1	2:L:876:TRP:NE1	2.54	0.69
1:C:959:PRO:HG2	2:I:974:GLU:HG3	1.75	0.69
2:L:1468:ARG:HH12	2:L:1475:LEU:HB2	1.56	0.69
2:K:1770:ASN:HB2	2:K:1776:LYS:HE2	1.74	0.69
1:D:1425:LEU:HD21	1:D:1429:ARG:HH21	1.57	0.69
1:E:617:LEU:N	1:E:617:LEU:HD23	2.07	0.69
2:L:1506:SER:HA	2:L:1533:GLY:HA2	1.74	0.69
1:F:15:VAL:HG11	2:L:2022:LEU:HD21	1.74	0.69
1:C:853:MET:HG2	1:C:856:ASN:HD22	1.57	0.69
1:D:1089:TYR:CE1	1:D:1312:GLU:HG3	2.28	0.69
2:K:1384:PRO:CB	2:K:1829:ARG:HH12	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1079:ARG:HH11	1:B:1079:ARG:CG	2.04	0.69
2:L:685:VAL:HG23	2:L:1186:ARG:NH1	2.06	0.69
2:H:501:TRP:NE1	2:H:528:THR:HG22	2.06	0.69
2:G:501:TRP:NE1	2:G:528:THR:HG22	2.07	0.69
2:J:251:PRO:HG3	2:J:316:PHE:HA	1.73	0.69
2:L:207:LEU:O	2:L:211:LEU:HG	1.92	0.69
1:F:501:ASP:HB3	1:F:505:ASN:HB2	1.75	0.69
2:J:1721:ARG:NH2	2:J:1853:ILE:HD12	2.07	0.69
1:D:962:ASN:HB3	2:J:969:ARG:HD2	1.74	0.69
2:G:779:GLY:O	2:G:780:SER:HB2	1.91	0.69
2:G:1845:VAL:HG21	2:G:1856:LEU:HD22	1.72	0.69
1:B:1267:LEU:HD11	1:B:1303:LEU:HD12	1.75	0.69
2:K:613:VAL:CG1	2:K:614:PRO:HD3	2.22	0.69
2:H:489:GLU:HA	2:H:492:ARG:NH1	2.07	0.69
2:L:2037:GLY:HA2	2:L:2048:PHE:O	1.91	0.69
2:K:854:VAL:CG2	2:K:1070:PRO:HA	2.22	0.69
2:K:207:LEU:O	2:K:211:LEU:HG	1.92	0.69
2:H:1891:ILE:HD11	2:H:1943:LEU:HB3	1.73	0.69
2:H:358:ARG:HB2	2:H:389:PHE:CZ	2.28	0.69
2:G:747:ARG:HH11	2:G:780:SER:HB3	1.56	0.69
2:L:1084:LYS:O	2:L:1088:ASP:HB2	1.93	0.69
2:H:1884:CYS:HB3	2:H:1936:LEU:HD12	1.73	0.69
1:D:1213:VAL:HG22	1:D:1300:ARG:NH2	2.07	0.69
2:G:1456:LEU:HD11	2:G:1543:TYR:HE2	1.58	0.69
2:I:117:ASN:HA	2:I:561:ARG:HG3	1.74	0.69
2:L:1985:GLN:O	2:L:1987:VAL:N	2.22	0.69
1:A:1279:ALA:O	1:A:1282:THR:HG23	1.92	0.69
2:L:306:THR:O	2:L:310:ARG:HG3	1.93	0.69
2:J:610:PRO:CD	4:J:2101:FMN:H6	2.17	0.69
1:E:1672:GLY:HA3	1:E:1678:LEU:CD2	2.21	0.69
2:I:917:ARG:HD3	2:I:937:ARG:NH2	2.08	0.69
2:I:595:SER:HB3	2:I:602:PRO:CG	2.21	0.69
2:G:2037:GLY:HA2	2:G:2048:PHE:O	1.93	0.69
2:H:1007:LEU:N	2:H:1007:LEU:HD12	2.07	0.69
2:L:791:TYR:HA	2:L:796:TRP:HD1	1.58	0.69
2:J:1405:ILE:HA	2:J:1445:THR:OG1	1.92	0.69
2:I:1499:LYS:HG3	2:I:1500:ASN:N	2.07	0.69
2:H:207:LEU:O	2:H:211:LEU:HG	1.93	0.69
1:C:767:HIS:CE1	1:D:767:HIS:CE1	2.80	0.69
1:D:1674:ILE:HD12	2:J:1010:ALA:HB3	1.75	0.69
2:H:741:LEU:O	2:H:741:LEU:HG	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1384:PRO:HB3	2:K:1829:ARG:NH1	2.08	0.69
2:K:347:PRO:HA	2:K:432:PHE:CD1	2.28	0.69
2:J:857:VAL:HG13	2:J:876:TRP:NE1	2.07	0.69
1:E:859:VAL:HG12	1:E:863:VAL:HG23	1.73	0.69
2:K:950:TRP:CD1	2:K:956:LYS:HD3	2.28	0.69
2:G:48:LEU:CD1	2:G:101:VAL:HG11	2.23	0.69
1:F:859:VAL:HG12	1:F:863:VAL:HG23	1.75	0.69
2:J:1318:ALA:HA	2:J:1391:VAL:HG21	1.75	0.69
1:C:553:ARG:HH22	1:C:563:GLN:HB3	1.56	0.69
1:B:1250:LEU:HB2	1:D:1317:GLU:HG3	1.75	0.69
1:A:1462:ASP:HB2	1:A:1465:ALA:HB3	1.75	0.69
2:K:1976:CYS:O	2:K:1980:THR:HG23	1.93	0.69
2:L:1120:ILE:HD12	2:L:1167:ASN:O	1.93	0.69
2:H:1084:LYS:O	2:H:1088:ASP:HB2	1.93	0.69
2:K:489:GLU:HA	2:K:492:ARG:NH1	2.08	0.69
1:A:1617:ILE:N	1:A:1617:ILE:HD13	2.08	0.69
2:H:506:VAL:HG12	2:H:506:VAL:O	1.92	0.69
2:L:718:PRO:CG	2:L:727:VAL:HG21	2.23	0.69
2:G:1468:ARG:HH12	2:G:1475:LEU:HB2	1.56	0.69
2:J:1884:CYS:HB3	2:J:1936:LEU:HD12	1.74	0.69
2:K:506:VAL:HG12	2:K:506:VAL:O	1.93	0.69
2:H:135:GLY:HA2	2:H:138:ARG:NH1	2.08	0.69
2:K:1421:ARG:HD2	2:K:1426:VAL:HG21	1.74	0.69
1:F:1223:GLY:HA3	1:F:1276:PRO:HD2	1.75	0.69
1:F:423:ARG:O	1:F:429:ILE:HD11	1.93	0.69
2:H:917:ARG:HD3	2:H:937:ARG:NH2	2.08	0.69
1:A:539:THR:O	1:A:542:GLN:HG2	1.93	0.69
2:J:1918:VAL:HG13	2:J:2006:HIS:CB	2.23	0.69
2:L:914:TRP:NE1	2:L:916:GLY:HA3	2.08	0.69
1:A:470:GLY:O	1:A:474:ILE:HG13	1.92	0.69
1:B:716:GLN:HB3	1:B:769:ILE:HG23	1.75	0.69
1:C:60:THR:HG23	2:I:1922:VAL:HG13	1.75	0.69
1:C:408:GLN:HG2	1:C:1610:ARG:HH12	1.58	0.69
2:I:1506:SER:HA	2:I:1533:GLY:HA2	1.75	0.69
1:B:1462:ASP:HB2	1:B:1465:ALA:HB3	1.74	0.69
1:A:1480:ARG:O	1:A:1484:GLU:HG3	1.93	0.69
2:K:329:THR:HA	2:L:1331:THR:HG22	1.75	0.69
1:D:1462:ASP:HB2	1:D:1465:ALA:HB3	1.74	0.69
2:I:571:ASP:HB3	2:I:574:LYS:HB2	1.73	0.69
1:D:42:GLU:OE1	2:J:1688:PRO:HB3	1.93	0.69
2:G:1884:CYS:HB3	2:G:1936:LEU:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1183:VAL:HG11	1:F:1187:THR:HG21	1.73	0.69
2:H:465:LEU:HD11	2:H:486:ILE:HD11	1.74	0.68
1:D:1702:ARG:HG3	1:D:1702:ARG:NH1	2.05	0.68
2:J:608:MET:H	2:J:612:THR:HB	1.57	0.68
2:G:917:ARG:HD3	2:G:937:ARG:NH2	2.08	0.68
1:A:632:LEU:HA	1:A:635:ILE:HG22	1.76	0.68
2:I:930:THR:HG22	2:I:933:GLU:HG3	1.76	0.68
1:A:729:ILE:HA	1:A:736:LEU:HD21	1.74	0.68
1:E:1640:LYS:HG3	1:E:1641:TYR:CD1	2.28	0.68
1:A:1032:MET:CE	1:A:1165:PRO:HB3	2.22	0.68
1:D:405:TRP:CZ3	1:D:1609:SER:HB3	2.27	0.68
1:A:1183:VAL:HG11	1:A:1187:THR:HG21	1.75	0.68
2:K:306:THR:O	2:K:310:ARG:HG3	1.93	0.68
2:J:918:ASN:HB3	2:J:924:VAL:HG21	1.75	0.68
2:G:1421:ARG:HD2	2:G:1426:VAL:HG21	1.75	0.68
2:I:674:ILE:HD13	2:I:705:TYR:CE2	2.28	0.68
1:D:406:ALA:CA	1:D:439:ARG:HH11	2.05	0.68
2:I:501:TRP:HZ2	2:I:528:THR:HG21	1.58	0.68
1:A:628:TYR:CZ	1:A:630:LYS:HG2	2.29	0.68
2:H:1181:PHE:CE1	2:H:1191:PRO:HD2	2.28	0.68
2:H:914:TRP:NE1	2:H:916:GLY:HA3	2.07	0.68
2:G:674:ILE:HD13	2:G:705:TYR:CE2	2.28	0.68
1:B:1032:MET:CE	1:B:1165:PRO:HB3	2.23	0.68
2:J:129:ILE:HD13	2:J:132:LYS:HE3	1.75	0.68
1:C:1032:MET:CE	1:C:1165:PRO:HB3	2.23	0.68
2:G:1383:VAL:HG23	2:G:1428:TYR:HE1	1.58	0.68
2:J:186:LEU:CD2	2:J:256:VAL:HG22	2.23	0.68
2:L:786:GLU:CD	2:L:786:GLU:H	1.96	0.68
1:F:330:LYS:HG3	1:F:333:ARG:NH1	2.08	0.68
2:L:1289:TYR:CG	2:L:1370:LEU:HD23	2.27	0.68
2:G:1375:HIS:HE1	2:G:1610:MET:SD	2.17	0.68
2:K:290:VAL:HG22	2:K:490:LEU:HD13	1.76	0.68
2:G:854:VAL:HG21	2:G:1070:PRO:CA	2.23	0.68
1:B:1005:TRP:CD1	1:B:1561:LEU:HD22	2.29	0.68
1:C:633:THR:HG22	1:C:637:LEU:HD12	1.74	0.68
1:A:22:PHE:HE2	2:G:2017:PHE:CG	2.11	0.68
2:H:1985:GLN:C	2:H:1987:VAL:H	1.97	0.68
2:G:1985:GLN:C	2:G:1987:VAL:H	1.96	0.68
2:L:718:PRO:HG2	2:L:727:VAL:HG21	1.74	0.68
1:A:1490:GLY:O	1:A:1509:THR:HB	1.93	0.68
1:D:859:VAL:HG12	1:D:863:VAL:HG23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:330:LYS:HG3	1:C:333:ARG:NH1	2.08	0.68
1:F:1052:ASP:OD2	1:F:1055:THR:HG22	1.94	0.68
1:D:398:VAL:HG22	1:D:710:VAL:HG22	1.74	0.68
2:I:1348:PHE:O	2:I:1351:VAL:HG12	1.93	0.68
1:F:1704:THR:HG23	1:F:1714:PRO:HG3	1.76	0.68
2:H:289:ILE:HG12	2:H:493:MET:HE1	1.75	0.68
2:K:584:SER:HB3	2:K:1114:GLU:O	1.93	0.68
1:B:756:ILE:HA	1:B:759:ILE:HD11	1.74	0.68
1:D:1214:HIS:HD2	1:D:1216:SER:OG	1.76	0.68
2:K:253:ILE:HB	2:K:287:GLN:HE22	1.58	0.68
2:K:48:LEU:CD1	2:K:101:VAL:HG11	2.22	0.68
1:F:1541:GLN:HE22	1:F:1633:GLN:HE22	1.40	0.68
1:B:1081:ILE:HA	1:B:1163:GLN:HE22	1.58	0.68
2:J:1084:LYS:O	2:J:1088:ASP:HB2	1.93	0.68
2:I:1356:ALA:HB3	2:I:1397:THR:HG22	1.74	0.68
2:I:1456:LEU:HD11	2:I:1543:TYR:HE2	1.59	0.68
2:J:1833:PHE:CZ	2:J:2039:TYR:HB2	2.29	0.68
2:G:609:THR:OG1	2:G:610:PRO:HD3	1.93	0.68
1:A:1476:ARG:HH12	1:E:1499:ARG:CD	2.05	0.68
2:L:1617:ARG:HB2	2:L:1635:TYR:CZ	2.28	0.68
2:J:1499:LYS:HG3	2:J:1500:ASN:N	2.08	0.68
2:J:289:ILE:HG23	2:J:490:LEU:HD22	1.75	0.68
1:B:486:VAL:CG1	1:B:647:GLY:HA3	2.24	0.68
2:K:44:GLN:HG3	2:K:101:VAL:HG21	1.73	0.68
1:B:956:ILE:HA	2:H:977:PRO:HA	1.75	0.68
1:D:580:ASN:OD1	1:D:583:GLN:HB2	1.92	0.68
1:E:655:ALA:HB3	1:E:680:VAL:HG12	1.76	0.68
2:G:117:ASN:HA	2:G:561:ARG:HG3	1.76	0.68
2:K:623:ASN:OD1	2:K:653:PRO:HD3	1.94	0.68
1:D:430:VAL:HG11	1:D:490:VAL:HG11	1.75	0.68
2:L:1026:LYS:HG3	3:L:2102:NAP:N7A	2.09	0.68
2:J:1180:VAL:HG12	2:J:1188:GLN:H	1.59	0.68
2:I:942:MET:HE1	2:I:955:LEU:HB3	1.74	0.68
1:B:1005:TRP:NE1	1:B:1561:LEU:CD2	2.55	0.68
2:G:448:HIS:CD2	2:G:491:VAL:HG12	2.26	0.68
2:L:1871:VAL:HB	2:L:2003:VAL:HG22	1.74	0.68
2:H:1871:VAL:HB	2:H:2003:VAL:HG22	1.75	0.68
1:A:15:VAL:HG11	2:G:2022:LEU:HD21	1.74	0.68
2:H:1289:TYR:CG	2:H:1370:LEU:HD23	2.28	0.68
2:H:1370:LEU:HD12	2:H:1373:LEU:HD13	1.76	0.68
1:D:967:PHE:CD2	1:D:1662:GLN:HB2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:506:VAL:HG12	2:J:506:VAL:O	1.93	0.68
2:K:135:GLY:HA2	2:K:138:ARG:NH1	2.08	0.68
2:K:1455:GLN:HB2	2:K:1551:ILE:HD11	1.73	0.68
2:L:172:ILE:HD11	2:L:501:TRP:CZ2	2.28	0.68
2:I:1178:THR:HG22	2:I:1180:VAL:H	1.59	0.68
2:I:930:THR:HG22	2:I:933:GLU:CG	2.24	0.68
2:H:791:TYR:HA	2:H:796:TRP:HD1	1.56	0.68
2:H:43:PHE:CE2	2:I:22:ARG:HB3	2.28	0.68
2:K:964:ARG:O	2:K:967:GLU:HB2	1.94	0.68
2:H:718:PRO:CG	2:H:727:VAL:HG21	2.23	0.68
1:E:1218:VAL:HG13	1:E:1301:VAL:HG13	1.75	0.68
1:E:408:GLN:HG2	1:E:1610:ARG:HH12	1.59	0.68
1:A:1079:ARG:CG	1:A:1079:ARG:HH11	2.04	0.68
2:I:172:ILE:HD11	2:I:501:TRP:CZ2	2.28	0.68
2:H:172:ILE:HD11	2:H:501:TRP:CZ2	2.28	0.68
2:H:926:LEU:O	2:H:1008:ILE:HD11	1.94	0.68
1:C:1102:ILE:HG22	1:C:1104:GLN:HG2	1.75	0.68
2:K:376:ARG:CB	2:K:394:PRO:HG2	2.22	0.68
1:C:729:ILE:HA	1:C:736:LEU:HD21	1.75	0.68
2:L:1370:LEU:HD12	2:L:1373:LEU:HD13	1.75	0.68
1:A:983:GLN:HB3	1:A:1418:ILE:HG21	1.76	0.68
2:J:265:CYS:SG	2:J:275:LEU:HD12	2.34	0.68
2:L:699:ILE:HD12	2:L:699:ILE:H	1.58	0.68
2:K:1867:MET:O	2:K:2003:VAL:HG21	1.94	0.68
2:K:930:THR:HG22	2:K:933:GLU:CG	2.24	0.68
2:H:306:THR:O	2:H:310:ARG:HG3	1.94	0.68
2:L:1178:THR:HG22	2:L:1180:VAL:H	1.59	0.68
2:G:930:THR:HG23	2:G:933:GLU:H	1.57	0.68
2:I:791:TYR:HA	2:I:796:TRP:HD1	1.54	0.68
2:I:1890:ARG:HH22	2:I:1996:ILE:CD1	2.07	0.68
2:H:1874:ASP:OD1	2:H:1878:ARG:HB3	1.94	0.68
1:B:392:ASP:HB3	1:B:395:LYS:HD2	1.76	0.68
1:F:1702:ARG:NH1	1:F:1702:ARG:CG	2.45	0.68
2:K:1350:ILE:O	2:K:1354:TRP:HB2	1.93	0.68
1:F:628:TYR:CZ	1:F:630:LYS:HG2	2.29	0.68
1:A:962:ASN:HD22	2:G:1006:GLN:NE2	1.90	0.68
2:G:251:PRO:HG3	2:G:316:PHE:HA	1.76	0.68
1:E:928:ILE:HG12	2:K:1462:GLN:HA	1.76	0.68
1:B:767:HIS:HE1	1:E:767:HIS:CE1	2.12	0.68
1:A:486:VAL:HG11	1:A:647:GLY:HA3	1.75	0.68
2:G:718:PRO:CG	2:G:727:VAL:HG21	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1674:ILE:HD11	2:G:1011:GLN:HG3	1.76	0.68
2:G:1888:PRO:HG3	2:G:1900:LEU:HD12	1.75	0.68
2:H:1318:ALA:HA	2:H:1391:VAL:HG21	1.76	0.68
2:H:656:ARG:HG2	2:H:656:ARG:HH11	1.59	0.67
2:L:172:ILE:HD11	2:L:501:TRP:HZ2	1.59	0.67
2:J:306:THR:O	2:J:310:ARG:HG3	1.94	0.67
1:F:1617:ILE:HD13	1:F:1617:ILE:N	2.09	0.67
2:J:358:ARG:NH2	2:J:383:VAL:HG21	2.08	0.67
1:D:582:SER:O	1:D:586:GLN:HB2	1.94	0.67
1:B:1425:LEU:HD21	1:B:1429:ARG:HH21	1.59	0.67
2:J:1305:LEU:HD11	2:J:1365:LYS:HD2	1.76	0.67
1:D:1223:GLY:HA3	1:D:1276:PRO:HD2	1.76	0.67
2:G:1099:LEU:HD21	2:G:1107:GLU:HG2	1.76	0.67
1:C:1462:ASP:HB2	1:C:1465:ALA:HB3	1.75	0.67
2:K:942:MET:HE1	2:K:955:LEU:HB3	1.76	0.67
1:C:628:TYR:CZ	1:C:630:LYS:HG2	2.29	0.67
1:B:406:ALA:CA	1:B:439:ARG:HH11	2.06	0.67
2:I:1007:LEU:HD12	2:I:1007:LEU:N	2.08	0.67
2:K:190:TYR:CD1	2:K:201:ILE:HD13	2.28	0.67
2:J:698:SER:HB3	2:J:701:VAL:HG23	1.74	0.67
2:H:1506:SER:HA	2:H:1533:GLY:HA2	1.75	0.67
1:D:853:MET:HG2	1:D:856:ASN:HD22	1.58	0.67
2:I:786:GLU:H	2:I:786:GLU:CD	1.98	0.67
2:I:1976:CYS:O	2:I:1980:THR:HG23	1.94	0.67
2:H:20:SER:O	2:H:38:PRO:HA	1.94	0.67
2:I:1318:ALA:HA	2:I:1391:VAL:HG21	1.75	0.67
1:E:541:VAL:O	1:E:545:LEU:HG	1.94	0.67
2:J:1383:VAL:HG23	2:J:1428:TYR:HE1	1.59	0.67
2:L:1802:ALA:HB1	2:L:1804:GLN:HE22	1.59	0.67
2:K:827:GLN:NE2	2:K:827:GLN:H	1.92	0.67
1:B:1413:SER:HA	1:B:1499:ARG:HH22	1.59	0.67
2:I:1454:MET:CE	2:I:1550:SER:HA	2.24	0.67
2:J:465:LEU:HD11	2:J:486:ILE:HD11	1.76	0.67
2:H:743:TRP:CG	2:H:761:ILE:HD11	2.30	0.67
1:E:1209:PHE:CE2	1:E:1301:VAL:HG21	2.29	0.67
2:J:756:ASP:HA	2:J:843:TRP:CH2	2.30	0.67
2:G:698:SER:HB3	2:G:701:VAL:HG23	1.76	0.67
2:L:1099:LEU:HD21	2:L:1107:GLU:HG2	1.76	0.67
2:L:38:PRO:HD2	2:L:104:LEU:HD11	1.76	0.67
2:K:129:ILE:HD13	2:K:132:LYS:HE3	1.75	0.67
2:I:1802:ALA:HB1	2:I:1804:GLN:HE22	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:967:PHE:CD2	1:A:1374:PRO:HG3	2.29	0.67
1:D:1183:VAL:HG11	1:D:1187:THR:HG21	1.75	0.67
2:G:158:LEU:HA	2:G:566:VAL:HG21	1.76	0.67
2:K:930:THR:HG23	2:K:933:GLU:H	1.60	0.67
2:L:854:VAL:HG21	2:L:1070:PRO:CA	2.25	0.67
2:J:314:LEU:HG	2:J:318:ILE:HD11	1.76	0.67
1:D:1224:SER:HB2	1:D:1307:PHE:O	1.94	0.67
1:C:1052:ASP:OD2	1:C:1055:THR:HG22	1.94	0.67
1:B:1480:ARG:O	1:B:1484:GLU:HG3	1.94	0.67
1:B:398:VAL:HG22	1:B:710:VAL:HG22	1.75	0.67
2:K:875:PHE:CD1	2:K:905:LYS:HD3	2.30	0.67
1:D:683:THR:HB	1:D:714:PHE:HB3	1.77	0.67
1:E:501:ASP:HB3	1:E:505:ASN:HB2	1.76	0.67
2:G:1721:ARG:NH2	2:G:1853:ILE:HD12	2.10	0.67
1:E:1336:GLU:O	1:E:1340:MET:HG2	1.95	0.67
2:J:1231:THR:HG22	2:J:1232:VAL:HG13	1.76	0.67
1:D:1102:ILE:HG22	1:D:1104:GLN:HG2	1.75	0.67
2:G:930:THR:HG22	2:G:933:GLU:CG	2.24	0.67
2:K:465:LEU:HD11	2:K:486:ILE:HD11	1.76	0.67
2:G:1181:PHE:CE1	2:G:1191:PRO:HD2	2.29	0.67
2:G:461:PRO:HA	2:G:484:GLU:O	1.94	0.67
2:I:605:VAL:HG22	2:I:816:MET:HG3	1.75	0.67
2:H:376:ARG:HH22	2:I:1340:LYS:HE3	1.58	0.67
2:J:1348:PHE:O	2:J:1351:VAL:HG12	1.95	0.67
2:L:1383:VAL:HG23	2:L:1428:TYR:HE1	1.59	0.67
2:H:638:ALA:HA	2:H:672:TRP:CZ3	2.29	0.67
2:J:1331:THR:HG22	2:L:329:THR:HA	1.77	0.67
2:L:1421:ARG:HD2	2:L:1426:VAL:HG21	1.76	0.67
2:I:253:ILE:HB	2:I:287:GLN:HE22	1.59	0.67
2:G:1976:CYS:O	2:G:1980:THR:HG23	1.95	0.67
2:L:440:HIS:CD2	2:L:499:VAL:HG23	2.29	0.67
2:I:1181:PHE:O	2:I:1188:GLN:HB3	1.95	0.67
1:C:1413:SER:HA	1:C:1499:ARG:NH2	2.09	0.67
2:H:854:VAL:CG2	2:H:1070:PRO:HA	2.24	0.67
2:G:440:HIS:CD2	2:G:499:VAL:HG23	2.29	0.67
1:E:729:ILE:HA	1:E:736:LEU:HD21	1.76	0.67
2:K:1891:ILE:HD11	2:K:1943:LEU:HB3	1.74	0.67
2:L:1888:PRO:HG3	2:L:1900:LEU:HD12	1.75	0.67
1:C:831:GLU:HG2	1:D:755:GLU:HG2	1.76	0.67
2:L:1456:LEU:HD11	2:L:1543:TYR:HE2	1.60	0.67
1:A:444:LEU:HD22	1:A:448:MET:HG2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1541:GLN:HE22	1:D:1633:GLN:HE22	1.43	0.67
2:L:1348:PHE:O	2:L:1351:VAL:HG12	1.95	0.67
2:L:967:GLU:HG2	2:L:1000:TYR:CE1	2.30	0.67
2:J:1171:TRP:CD1	2:J:1171:TRP:C	2.68	0.67
2:J:396:ILE:H	2:J:396:ILE:HD12	1.59	0.67
1:F:427:ARG:HH11	1:F:492:ILE:HG12	1.59	0.67
2:I:917:ARG:HG2	2:I:937:ARG:NH1	2.10	0.67
2:H:1026:LYS:HG3	3:H:2102:NAP:N7A	2.09	0.67
2:H:796:TRP:CH2	2:H:805:MET:HE1	2.30	0.67
2:G:284:GLY:H	2:G:289:ILE:HD12	1.58	0.67
2:I:1867:MET:O	2:I:2003:VAL:HG21	1.94	0.67
2:K:1874:ASP:OD1	2:K:1878:ARG:HB3	1.95	0.67
2:K:1985:GLN:C	2:K:1987:VAL:H	1.97	0.67
1:E:22:PHE:HE1	2:K:1867:MET:HG3	1.60	0.67
2:H:698:SER:HB3	2:H:701:VAL:HG23	1.77	0.67
1:B:433:CYS:O	1:B:437:MET:HG3	1.95	0.67
2:K:638:ALA:HA	2:K:672:TRP:CZ3	2.30	0.67
2:L:365:ILE:HG23	2:L:378:ILE:HG22	1.77	0.67
2:H:190:TYR:HD1	2:H:201:ILE:HD13	1.60	0.67
2:I:265:CYS:SG	2:I:275:LEU:HD12	2.35	0.67
1:F:408:GLN:HG2	1:F:1610:ARG:HH12	1.60	0.67
1:F:1425:LEU:HD21	1:F:1429:ARG:HH21	1.60	0.67
2:J:135:GLY:HA2	2:J:138:ARG:NH1	2.09	0.67
1:B:962:ASN:HD22	2:H:1006:GLN:HE22	1.42	0.67
1:F:1470:ARG:O	1:F:1474:ILE:HG13	1.94	0.67
2:G:656:ARG:HH11	2:G:656:ARG:HG2	1.59	0.67
1:E:998:GLY:HA3	1:E:1361:VAL:CG1	2.20	0.67
1:C:427:ARG:HG3	1:C:427:ARG:NH1	2.07	0.67
2:J:2036:ILE:HG22	2:J:2037:GLY:N	2.08	0.67
2:H:172:ILE:HD11	2:H:501:TRP:HZ2	1.60	0.67
2:G:489:GLU:HA	2:G:492:ARG:NH1	2.10	0.67
2:K:918:ASN:HB3	2:K:924:VAL:HG21	1.77	0.67
1:C:756:ILE:HA	1:C:759:ILE:HD11	1.76	0.67
1:E:767:HIS:HB2	1:E:813:LEU:HD12	1.76	0.67
2:H:1375:HIS:HE1	2:H:1610:MET:SD	2.18	0.67
2:K:367:ALA:O	2:K:370:GLN:HB3	1.94	0.67
2:J:1356:ALA:HB3	2:J:1397:THR:HG22	1.76	0.67
2:H:1976:CYS:O	2:H:1980:THR:HG23	1.95	0.67
2:I:220:GLN:C	2:I:222:PRO:HD3	2.15	0.67
2:G:329:THR:HA	2:H:1331:THR:HG22	1.76	0.67
1:A:442:PRO:HD2	1:A:443:LEU:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:947:ASP:O	1:E:951:LEU:HG	1.95	0.67
2:J:1802:ALA:HB1	2:J:1804:GLN:HE22	1.59	0.67
1:E:1510:TRP:HZ3	1:E:1642:LEU:HA	1.60	0.67
2:J:967:GLU:HG2	2:J:1000:TYR:CE1	2.30	0.67
2:G:663:ILE:H	2:G:663:ILE:HD12	1.60	0.67
2:K:926:LEU:O	2:K:1008:ILE:HD11	1.94	0.67
2:K:447:ALA:O	2:K:451:ILE:HG13	1.94	0.67
2:I:1617:ARG:HB2	2:I:1635:TYR:CZ	2.29	0.67
1:A:1218:VAL:HG13	1:A:1301:VAL:HG13	1.77	0.67
2:K:1468:ARG:NH1	2:K:1475:LEU:HB2	2.09	0.67
1:C:486:VAL:CG1	1:C:647:GLY:HA3	2.25	0.67
1:A:421:ARG:HH22	1:A:1613:LYS:HB3	1.60	0.67
1:C:1156:PHE:CZ	1:C:1316:TYR:HA	2.29	0.67
1:E:1207:TYR:CZ	1:E:1682:LYS:HD2	2.30	0.67
1:D:15:VAL:HG11	2:J:2022:LEU:HD21	1.77	0.67
2:K:186:LEU:CD2	2:K:256:VAL:HG22	2.24	0.67
2:L:1171:TRP:CD1	2:L:1171:TRP:C	2.68	0.67
1:B:1317:GLU:HG3	1:D:1250:LEU:HB2	1.77	0.67
1:C:1686:PRO:HB2	1:C:1713:PHE:CD1	2.30	0.67
1:E:1413:SER:HA	1:E:1499:ARG:HH22	1.60	0.67
2:K:524:ILE:HG22	2:K:528:THR:HG23	1.77	0.67
1:E:962:ASN:HB3	2:K:969:ARG:HD2	1.75	0.67
2:I:465:LEU:HD11	2:I:486:ILE:HD11	1.75	0.67
2:J:358:ARG:HB2	2:J:389:PHE:CZ	2.29	0.67
2:H:1918:VAL:HG13	2:H:2006:HIS:HB2	1.75	0.67
2:H:265:CYS:SG	2:H:275:LEU:HD12	2.34	0.67
1:C:501:ASP:HB3	1:C:505:ASN:HB2	1.77	0.67
1:A:1223:GLY:HA3	1:A:1276:PRO:HD2	1.76	0.67
1:D:501:ASP:HB3	1:D:505:ASN:HB2	1.77	0.67
2:H:1455:GLN:HB2	2:H:1551:ILE:HD11	1.76	0.67
1:C:1541:GLN:HE22	1:C:1633:GLN:HE22	1.41	0.67
1:C:683:THR:HB	1:C:714:PHE:HB3	1.76	0.67
2:L:611:THR:HG21	2:L:817:MET:HE2	1.76	0.67
2:H:1232:VAL:HG12	2:H:1246:LEU:HD23	1.75	0.66
1:D:557:ARG:CG	1:D:557:ARG:NH1	2.55	0.66
1:A:1672:GLY:HA3	1:A:1678:LEU:CD2	2.22	0.66
2:L:942:MET:CE	2:L:955:LEU:HB3	2.25	0.66
2:H:942:MET:HE1	2:H:955:LEU:HB3	1.75	0.66
2:G:524:ILE:HG22	2:G:528:THR:HG23	1.77	0.66
2:G:926:LEU:O	2:G:1008:ILE:HD11	1.95	0.66
2:L:1125:ASP:O	2:L:1126:GLU:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:605:VAL:HG22	2:K:816:MET:HG3	1.76	0.66
1:B:1674:ILE:HD12	2:H:1010:ALA:HB3	1.76	0.66
2:I:1468:ARG:NH1	2:I:1475:LEU:HB2	2.09	0.66
2:J:1874:ASP:OD1	2:J:1878:ARG:HB3	1.95	0.66
2:G:718:PRO:HG2	2:G:727:VAL:HG21	1.77	0.66
2:I:950:TRP:CD1	2:I:956:LYS:HD3	2.30	0.66
2:L:270:ARG:HG3	2:L:274:GLU:OE1	1.95	0.66
2:K:1383:VAL:HG23	2:K:1428:TYR:HE1	1.59	0.66
2:K:768:ILE:O	2:K:774:ILE:HD12	1.95	0.66
2:L:698:SER:HB3	2:L:701:VAL:HG23	1.76	0.66
1:C:961:ALA:HB2	1:C:1022:LEU:HD12	1.77	0.66
2:L:1356:ALA:HB3	2:L:1397:THR:HG22	1.76	0.66
2:G:162:ALA:HA	2:G:167:VAL:HG22	1.77	0.66
2:H:314:LEU:HG	2:H:318:ILE:HD11	1.77	0.66
2:J:524:ILE:HG22	2:J:528:THR:HG23	1.78	0.66
1:C:859:VAL:HG12	1:C:863:VAL:HG23	1.75	0.66
1:B:562:SER:CB	1:E:551:LEU:HD21	2.25	0.66
2:I:1985:GLN:C	2:I:1987:VAL:H	1.98	0.66
2:J:110:GLU:HA	2:J:114:MET:HB2	1.76	0.66
2:K:1290:TYR:CD2	2:K:1299:VAL:HB	2.30	0.66
1:A:1270:THR:HA	1:E:1386:THR:O	1.94	0.66
1:C:12:THR:O	1:C:16:GLU:HG2	1.95	0.66
2:G:1114:GLU:HB3	2:G:1169:TYR:HB3	1.76	0.66
2:K:1888:PRO:HG3	2:K:1900:LEU:HD12	1.77	0.66
2:I:207:LEU:O	2:I:211:LEU:HG	1.95	0.66
1:F:1504:ARG:NH1	1:F:1504:ARG:CG	2.45	0.66
2:K:868:LEU:O	2:K:870:THR:HG23	1.95	0.66
1:F:575:ARG:O	1:F:579:MET:HG3	1.95	0.66
1:A:1413:SER:HA	1:A:1499:ARG:HH22	1.60	0.66
2:G:465:LEU:HD11	2:G:486:ILE:HD11	1.75	0.66
1:D:756:ILE:HA	1:D:759:ILE:HD11	1.78	0.66
2:G:1610:MET:HA	2:G:1610:MET:HE2	1.76	0.66
2:H:1348:PHE:O	2:H:1351:VAL:HG12	1.94	0.66
2:G:1455:GLN:HB2	2:G:1551:ILE:HD11	1.78	0.66
1:F:962:ASN:HD22	2:L:1006:GLN:HE22	1.43	0.66
1:B:859:VAL:HG12	1:B:863:VAL:HG23	1.77	0.66
2:K:1026:LYS:HG3	3:K:2102:NAP:N7A	2.10	0.66
1:B:575:ARG:O	1:B:579:MET:HG3	1.95	0.66
2:G:1178:THR:HG22	2:G:1180:VAL:H	1.59	0.66
2:J:327:PRO:HD2	2:K:1338:ARG:NH2	2.11	0.66
2:H:1454:MET:CE	2:H:1550:SER:HA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1005:TRP:CD1	1:A:1561:LEU:HD22	2.30	0.66
1:F:1032:MET:HE2	1:F:1165:PRO:HB3	1.77	0.66
1:A:1214:HIS:HD2	1:A:1216:SER:OG	1.78	0.66
2:J:1331:THR:O	2:L:329:THR:HG22	1.95	0.66
2:L:1976:CYS:O	2:L:1980:THR:HG23	1.94	0.66
2:H:1421:ARG:HD2	2:H:1426:VAL:HG21	1.77	0.66
1:F:1462:ASP:HB2	1:F:1465:ALA:HB3	1.75	0.66
1:F:506:ILE:HD11	1:F:926:SER:HB3	1.75	0.66
2:L:48:LEU:CD1	2:L:101:VAL:HG11	2.25	0.66
2:K:1099:LEU:HD12	2:K:1103:TYR:HB2	1.78	0.66
1:F:1421:ARG:HD2	1:F:1489:PHE:O	1.96	0.66
1:A:503:ARG:HA	1:A:933:ILE:HD11	1.77	0.66
2:K:420:PRO:HG3	2:K:847:TYR:CD1	2.29	0.66
2:G:1046:SER:O	2:G:1049:GLN:HG3	1.96	0.66
2:K:117:ASN:OD1	2:K:561:ARG:HB2	1.95	0.66
2:H:1701:GLU:H	2:H:1704:MET:HE3	1.60	0.66
1:A:408:GLN:HG2	1:A:1610:ARG:NH1	2.10	0.66
1:B:729:ILE:HA	1:B:736:LEU:HD21	1.76	0.66
1:A:1307:PHE:HB3	1:A:1357:CYS:CB	2.26	0.66
2:I:270:ARG:HG3	2:I:274:GLU:OE1	1.95	0.66
2:L:44:GLN:HG3	2:L:101:VAL:HG21	1.78	0.66
2:J:1888:PRO:HG3	2:J:1900:LEU:HD12	1.77	0.66
2:L:918:ASN:HB3	2:L:924:VAL:HG21	1.77	0.66
1:F:567:ASN:HA	1:F:570:TYR:HB3	1.76	0.66
2:K:663:ILE:HD12	2:K:663:ILE:H	1.59	0.66
2:L:656:ARG:HH11	2:L:656:ARG:HG2	1.60	0.66
1:E:533:SER:O	1:E:611:THR:HA	1.95	0.66
2:K:796:TRP:CH2	2:K:805:MET:HE1	2.29	0.66
2:I:1115:TYR:HB3	2:I:1267:PRO:HB3	1.76	0.66
2:G:306:THR:O	2:G:310:ARG:HG3	1.95	0.66
1:D:729:ILE:HA	1:D:736:LEU:HD21	1.77	0.66
2:G:1802:ALA:HB1	2:G:1804:GLN:HE22	1.59	0.66
1:D:1032:MET:CE	1:D:1165:PRO:HB3	2.24	0.66
2:I:1888:PRO:HG3	2:I:1900:LEU:HD12	1.75	0.66
1:D:978:LYS:HB3	1:D:979:PRO:HD3	1.77	0.66
2:K:1506:SER:HA	2:K:1533:GLY:HA2	1.77	0.66
2:L:1318:ALA:HA	2:L:1391:VAL:HG21	1.75	0.66
1:F:433:CYS:O	1:F:437:MET:HG3	1.95	0.66
2:H:610:PRO:CD	4:H:2101:FMN:H6	2.21	0.66
2:H:472:THR:H	2:H:493:MET:HE3	1.61	0.66
2:G:172:ILE:HD11	2:G:501:TRP:CZ2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1005:TRP:CD1	1:F:1561:LEU:HD22	2.30	0.66
2:J:382:LEU:HB3	2:J:499:VAL:HB	1.76	0.66
1:D:1617:ILE:HD13	1:D:1617:ILE:N	2.10	0.66
2:I:779:GLY:O	2:I:780:SER:CB	2.43	0.66
2:G:743:TRP:CG	2:G:761:ILE:HD11	2.31	0.66
2:L:1874:ASP:OD1	2:L:1878:ARG:HB3	1.96	0.66
2:L:1985:GLN:C	2:L:1987:VAL:H	1.98	0.66
2:K:845:ASN:HB3	2:K:851:THR:OG1	1.95	0.66
2:J:950:TRP:CD1	2:J:956:LYS:HD3	2.30	0.66
1:A:1541:GLN:HE22	1:A:1633:GLN:HE22	1.44	0.66
1:C:1490:GLY:O	1:C:1509:THR:HB	1.96	0.66
1:A:1640:LYS:HG3	1:A:1641:TYR:CD1	2.31	0.66
1:B:1086:PHE:CE2	1:B:1310:PHE:HD2	2.14	0.66
2:H:1456:LEU:HD11	2:H:1543:TYR:HE2	1.61	0.66
2:K:220:GLN:C	2:K:222:PRO:HD3	2.16	0.66
2:G:1420:LYS:HG2	2:G:1425:PRO:HA	1.76	0.66
2:H:467:ILE:HG23	2:H:468:PRO:HD2	1.78	0.66
2:K:600:VAL:HG13	2:K:601:PRO:CD	2.26	0.66
1:A:406:ALA:CA	1:A:439:ARG:HH11	2.05	0.66
2:J:930:THR:HG23	2:J:933:GLU:H	1.61	0.66
2:K:743:TRP:HZ2	2:K:757:PHE:HA	1.61	0.66
1:F:1005:TRP:NE1	1:F:1561:LEU:CD2	2.58	0.66
2:H:1701:GLU:H	2:H:1704:MET:CE	2.09	0.66
2:L:670:MET:HA	2:L:673:GLN:HB2	1.78	0.66
2:G:1340:LYS:HG3	2:I:376:ARG:NH2	2.11	0.66
1:D:1413:SER:HA	1:D:1499:ARG:HH22	1.61	0.66
2:L:358:ARG:HB2	2:L:389:PHE:CZ	2.31	0.66
1:A:330:LYS:HG3	1:A:333:ARG:NH1	2.11	0.66
2:I:48:LEU:CD1	2:I:101:VAL:HG11	2.26	0.66
1:C:405:TRP:CZ3	1:C:1609:SER:HB3	2.31	0.66
2:G:1171:TRP:C	2:G:1171:TRP:CD1	2.68	0.66
2:G:964:ARG:O	2:G:967:GLU:HB2	1.96	0.66
1:B:1541:GLN:HE22	1:B:1633:GLN:HE22	1.41	0.66
2:I:358:ARG:HH21	2:I:383:VAL:HG21	1.60	0.66
2:H:950:TRP:CD1	2:H:956:LYS:HD3	2.31	0.66
2:K:867:LYS:HD3	2:K:1065:CYS:SG	2.36	0.66
2:K:1181:PHE:O	2:K:1188:GLN:HB3	1.96	0.66
2:L:2036:ILE:HG22	2:L:2037:GLY:H	1.61	0.66
2:G:942:MET:CE	2:G:955:LEU:HB3	2.26	0.66
2:G:1048:TRP:HE1	2:G:1049:GLN:HE21	1.44	0.66
1:D:746:PHE:CE1	1:D:800:PRO:HG3	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1891:ILE:HD11	2:G:1943:LEU:HB3	1.76	0.66
2:L:743:TRP:CG	2:L:761:ILE:HD11	2.31	0.66
2:H:894:GLU:O	2:H:897:LYS:HG2	1.96	0.66
1:F:1640:LYS:HG3	1:F:1641:TYR:CD1	2.31	0.66
2:K:57:PRO:HG2	2:K:68:GLU:HG3	1.77	0.66
1:E:1490:GLY:O	1:E:1509:THR:HB	1.96	0.66
2:L:1579:ASN:O	2:L:1583:VAL:HG23	1.96	0.66
2:J:549:ASN:ND2	2:J:551:GLU:H	1.93	0.66
2:G:293:ALA:HA	2:G:469:VAL:HG21	1.78	0.66
1:B:1640:LYS:HG3	1:B:1641:TYR:CD1	2.31	0.66
2:G:1692:TYR:HD1	2:G:1847:LEU:HD21	1.61	0.66
2:I:367:ALA:O	2:I:370:GLN:HB3	1.96	0.66
1:C:1090:ASP:OD1	1:C:1092:ASN:HB2	1.96	0.66
2:H:623:ASN:OD1	2:H:653:PRO:HD3	1.96	0.66
2:H:289:ILE:HG23	2:H:490:LEU:HD22	1.78	0.66
1:A:430:VAL:HG11	1:A:490:VAL:HG11	1.76	0.66
2:H:1048:TRP:HE1	2:H:1049:GLN:HE21	1.44	0.66
1:F:729:ILE:HA	1:F:736:LEU:HD21	1.77	0.66
1:E:632:LEU:HA	1:E:635:ILE:CG2	2.25	0.66
1:E:616:HIS:HA	1:E:633:THR:HG23	1.76	0.66
2:L:964:ARG:O	2:L:967:GLU:HB2	1.96	0.66
2:J:549:ASN:HD22	2:J:551:GLU:H	1.44	0.66
1:C:978:LYS:HB3	1:C:979:PRO:HD3	1.77	0.66
2:K:1802:ALA:HB1	2:K:1804:GLN:HE22	1.60	0.66
1:A:552:ILE:HD11	1:F:552:ILE:HG12	1.78	0.66
1:C:1386:THR:O	1:F:1270:THR:HA	1.96	0.66
2:L:584:SER:HB3	2:L:1114:GLU:O	1.96	0.66
1:E:926:SER:O	1:E:930:GLN:HG2	1.96	0.66
2:H:756:ASP:HA	2:H:843:TRP:CH2	2.31	0.66
2:L:894:GLU:O	2:L:897:LYS:HG2	1.94	0.66
2:H:129:ILE:HD13	2:H:132:LYS:HE3	1.77	0.66
1:B:1089:TYR:CE1	1:B:1312:GLU:HG3	2.31	0.66
1:B:427:ARG:NH1	1:B:427:ARG:HG3	2.03	0.65
2:I:610:PRO:CD	4:I:2101:FMN:H6	2.20	0.65
2:K:674:ILE:HD13	2:K:705:TYR:CE2	2.31	0.65
1:B:628:TYR:CZ	1:B:630:LYS:HG2	2.30	0.65
1:B:1413:SER:HA	1:B:1499:ARG:NH2	2.11	0.65
2:K:284:GLY:H	2:K:289:ILE:HD12	1.59	0.65
2:J:930:THR:HG22	2:J:933:GLU:CG	2.25	0.65
1:F:1581:LEU:HD23	1:F:1617:ILE:HG12	1.78	0.65
2:H:1468:ARG:NH1	2:H:1475:LEU:HB2	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1413:SER:HA	1:D:1499:ARG:NH2	2.12	0.65
2:G:1874:ASP:OD1	2:G:1878:ARG:HB3	1.96	0.65
1:C:684:THR:HG21	1:C:691:VAL:HG11	1.77	0.65
1:A:501:ASP:HB3	1:A:505:ASN:HB2	1.78	0.65
2:K:1851:MET:HE2	2:K:1855:SER:HB3	1.78	0.65
1:A:655:ALA:HB3	1:A:680:VAL:HG12	1.77	0.65
1:C:442:PRO:HD2	1:C:443:LEU:HD12	1.77	0.65
2:H:1171:TRP:CD1	2:H:1171:TRP:C	2.69	0.65
1:B:41:THR:HG21	2:H:1691:ALA:HB2	1.78	0.65
2:H:220:GLN:C	2:H:222:PRO:HD3	2.16	0.65
1:E:1504:ARG:CG	1:E:1504:ARG:NH1	2.47	0.65
2:I:718:PRO:CG	2:I:727:VAL:HG21	2.26	0.65
2:L:382:LEU:HB3	2:L:499:VAL:HB	1.78	0.65
2:J:600:VAL:HG13	2:J:601:PRO:CD	2.27	0.65
2:K:172:ILE:HD11	2:K:501:TRP:HZ2	1.60	0.65
2:I:172:ILE:HD11	2:I:501:TRP:HZ2	1.61	0.65
2:J:1181:PHE:O	2:J:1188:GLN:HB3	1.95	0.65
2:G:501:TRP:HZ2	2:G:528:THR:HG21	1.61	0.65
1:C:1476:ARG:HH12	1:F:1499:ARG:CD	2.07	0.65
2:J:1612:THR:O	2:J:1616:VAL:HG12	1.97	0.65
2:I:38:PRO:HD2	2:I:104:LEU:HD11	1.77	0.65
2:G:1745:LEU:HB3	2:G:1799:LEU:CD2	2.26	0.65
1:D:30:GLU:HB2	2:J:2045:ALA:CB	2.26	0.65
1:E:1674:ILE:HD12	2:K:1010:ALA:HB3	1.78	0.65
1:C:1081:ILE:HA	1:C:1163:GLN:NE2	2.11	0.65
1:F:962:ASN:HB3	2:L:969:ARG:HD2	1.78	0.65
1:E:442:PRO:HD2	1:E:443:LEU:HD12	1.77	0.65
2:I:110:GLU:HA	2:I:114:MET:HB2	1.79	0.65
2:J:1290:TYR:CD2	2:J:1299:VAL:HB	2.30	0.65
2:K:501:TRP:HZ2	2:K:528:THR:HG21	1.59	0.65
2:H:117:ASN:OD1	2:H:561:ARG:HB2	1.97	0.65
2:K:289:ILE:HG12	2:K:493:MET:CE	2.25	0.65
1:C:1663:LYS:HG2	2:I:1007:LEU:HD11	1.79	0.65
2:I:306:THR:O	2:I:310:ARG:HG3	1.96	0.65
2:J:670:MET:HA	2:J:673:GLN:HB2	1.77	0.65
2:K:1692:TYR:HD1	2:K:1847:LEU:HD21	1.61	0.65
1:D:962:ASN:HD22	2:J:1006:GLN:HE22	1.43	0.65
1:A:1336:GLU:O	1:A:1340:MET:HG2	1.96	0.65
2:H:882:LYS:HB3	2:H:898:ARG:HH12	1.61	0.65
2:L:186:LEU:CD2	2:L:256:VAL:HG22	2.27	0.65
1:E:421:ARG:HH22	1:E:1613:LYS:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:270:ARG:HG3	2:K:274:GLU:OE1	1.95	0.65
2:I:1220:ARG:HA	2:I:1229:VAL:O	1.96	0.65
1:C:1342:ARG:HB2	1:C:1345:SER:HB2	1.78	0.65
2:K:1067:LEU:HB2	4:K:2101:FMN:C7M	2.27	0.65
1:D:628:TYR:CZ	1:D:630:LYS:HG2	2.32	0.65
1:A:1702:ARG:NH1	1:A:1702:ARG:HG3	2.09	0.65
2:K:917:ARG:HG2	2:K:937:ARG:NH1	2.10	0.65
1:E:1102:ILE:HG22	1:E:1104:GLN:HG2	1.77	0.65
1:A:1413:SER:HA	1:A:1499:ARG:NH2	2.11	0.65
1:D:1209:PHE:CE2	1:D:1301:VAL:HG21	2.32	0.65
1:C:22:PHE:HE1	2:I:1867:MET:HG3	1.61	0.65
1:C:1094:LYS:HE3	1:C:1316:TYR:CD1	2.30	0.65
1:A:1081:ILE:HA	1:A:1163:GLN:HE22	1.60	0.65
1:C:777:LEU:O	1:C:781:ILE:HG13	1.96	0.65
2:J:1722:ALA:CB	2:J:1812:LEU:HD21	2.26	0.65
1:E:1483:ALA:HA	1:E:1486:GLN:HE21	1.61	0.65
1:D:444:LEU:HD22	1:D:448:MET:HG2	1.76	0.65
2:G:549:ASN:HD22	2:G:550:THR:N	1.95	0.65
1:C:620:LYS:HA	1:C:625:ASN:O	1.97	0.65
2:I:1455:GLN:HB2	2:I:1551:ILE:HD11	1.77	0.65
2:I:549:ASN:HD22	2:I:551:GLU:H	1.44	0.65
1:B:1342:ARG:HB2	1:B:1345:SER:HB2	1.78	0.65
1:B:538:ARG:HA	1:B:585:MET:HE1	1.77	0.65
2:H:501:TRP:HZ2	2:H:528:THR:HG21	1.62	0.65
1:F:905:LEU:HD22	1:F:911:LEU:HD21	1.77	0.65
1:C:1363:MET:HE3	1:C:1368:ALA:HB2	1.79	0.65
2:J:1351:VAL:HG23	2:J:1584:SER:HA	1.79	0.65
2:K:810:CYS:HG	2:K:812:PHE:HE1	1.44	0.65
2:H:365:ILE:HG23	2:H:378:ILE:HG22	1.78	0.65
1:B:1524:GLY:HA2	1:B:1531:ASP:OD1	1.96	0.65
2:I:833:VAL:HG13	2:I:1077:LYS:HA	1.79	0.65
1:D:1640:LYS:HG3	1:D:1641:TYR:CD1	2.32	0.65
2:L:135:GLY:HA2	2:L:138:ARG:NH1	2.11	0.65
2:L:1692:TYR:HD1	2:L:1847:LEU:HD21	1.60	0.65
2:J:253:ILE:HB	2:J:287:GLN:HE22	1.62	0.65
2:K:20:SER:O	2:K:38:PRO:HA	1.96	0.65
1:A:1510:TRP:HZ3	1:A:1642:LEU:HA	1.60	0.65
1:E:1470:ARG:O	1:E:1474:ILE:HG13	1.97	0.65
2:G:613:VAL:HG13	2:G:614:PRO:HD3	1.79	0.65
1:E:989:ASN:H	1:E:1491:ASN:ND2	1.91	0.65
2:J:1009:ASN:O	2:J:1013:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:406:ALA:CA	1:E:439:ARG:HH11	2.08	0.65
2:L:501:TRP:HZ2	2:L:528:THR:HG21	1.60	0.65
1:F:612:ILE:CD1	1:F:907:PHE:HZ	2.10	0.65
2:J:854:VAL:CG2	2:J:1070:PRO:HA	2.24	0.65
2:J:1617:ARG:HB2	2:J:1635:TYR:CZ	2.30	0.65
1:C:965:TYR:OH	1:C:1199:LEU:HD22	1.96	0.65
2:K:854:VAL:HG21	2:K:1070:PRO:CA	2.26	0.65
2:G:376:ARG:CB	2:G:394:PRO:HG2	2.26	0.65
2:K:1701:GLU:H	2:K:1704:MET:CE	2.10	0.65
2:G:358:ARG:HB2	2:G:389:PHE:CZ	2.31	0.65
1:E:756:ILE:HA	1:E:759:ILE:HD11	1.78	0.65
2:I:1933:LEU:O	2:I:1989:LEU:HD21	1.97	0.65
1:A:890:ASN:OD1	2:L:1755:LYS:HE2	1.97	0.65
2:G:365:ILE:HG23	2:G:378:ILE:HG22	1.79	0.65
2:K:1579:ASN:O	2:K:1583:VAL:HG23	1.96	0.65
2:K:833:VAL:HG13	2:K:1077:LYS:HA	1.79	0.65
1:E:1425:LEU:HD21	1:E:1429:ARG:HH21	1.61	0.65
2:I:1692:TYR:HD1	2:I:1847:LEU:HD21	1.62	0.65
2:L:1231:THR:HG22	2:L:1232:VAL:HG13	1.79	0.65
1:B:557:ARG:HD2	1:E:557:ARG:O	1.96	0.65
1:B:1150:ILE:HG12	1:D:1148:LEU:HD21	1.77	0.65
1:B:1702:ARG:HG3	1:B:1702:ARG:NH1	2.04	0.65
2:L:524:ILE:HG22	2:L:528:THR:HG23	1.79	0.65
2:H:825:SER:HB2	2:H:1053:ILE:HG13	1.79	0.65
2:J:172:ILE:HD11	2:J:501:TRP:CZ2	2.32	0.65
1:F:1674:ILE:HD12	2:L:1010:ALA:HB3	1.79	0.65
1:B:1686:PRO:HB2	1:B:1713:PHE:HD1	1.61	0.65
1:B:1209:PHE:CE2	1:B:1301:VAL:HG21	2.31	0.65
2:I:358:ARG:HB2	2:I:389:PHE:CZ	2.32	0.65
1:C:655:ALA:HB3	1:C:680:VAL:HG12	1.79	0.65
2:G:781:GLY:HA2	2:G:1071:VAL:HG13	1.79	0.65
1:F:1483:ALA:HA	1:F:1486:GLN:HE21	1.61	0.65
1:F:961:ALA:CB	1:F:1022:LEU:HD12	2.26	0.65
2:G:1231:THR:HG22	2:G:1232:VAL:HG13	1.79	0.65
2:I:1305:LEU:HD21	2:I:1365:LYS:HB2	1.79	0.65
2:G:270:ARG:HG3	2:G:274:GLU:OE1	1.97	0.65
1:E:853:MET:HG2	1:E:856:ASN:HD22	1.61	0.65
2:G:845:ASN:HB3	2:G:851:THR:OG1	1.97	0.65
2:L:220:GLN:C	2:L:222:PRO:HD3	2.17	0.65
1:E:330:LYS:HG3	1:E:333:ARG:NH1	2.11	0.65
2:H:1305:LEU:H	2:H:1305:LEU:HD12	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1338:ARG:HH21	2:L:327:PRO:HD2	1.62	0.65
2:H:786:GLU:H	2:H:786:GLU:CD	2.00	0.65
2:K:752:HIS:NE2	2:K:856:THR:CG2	2.60	0.65
2:L:1375:HIS:HE1	2:L:1610:MET:SD	2.19	0.65
2:L:1007:LEU:H	2:L:1007:LEU:CD1	2.09	0.65
2:H:524:ILE:HG22	2:H:528:THR:HG23	1.77	0.65
2:K:1115:TYR:HB3	2:K:1267:PRO:HB3	1.78	0.65
2:I:638:ALA:HA	2:I:672:TRP:CZ3	2.32	0.65
1:C:1640:LYS:HG3	1:C:1641:TYR:CD1	2.32	0.65
2:I:584:SER:HB3	2:I:1114:GLU:O	1.95	0.65
2:I:741:LEU:O	2:I:741:LEU:HG	1.97	0.65
2:I:1603:PRO:HG2	2:I:1642:MET:HE3	1.79	0.65
2:J:1454:MET:CE	2:J:1550:SER:HA	2.27	0.65
2:G:1404:VAL:HG22	2:G:1413:VAL:HG22	1.78	0.65
2:G:605:VAL:HG22	2:G:816:MET:HG3	1.79	0.65
2:H:918:ASN:HB3	2:H:924:VAL:HG21	1.77	0.65
2:L:741:LEU:HG	2:L:741:LEU:O	1.96	0.65
1:A:1250:LEU:HB2	1:E:1317:GLU:HG3	1.78	0.65
2:I:1171:TRP:C	2:I:1171:TRP:CD1	2.70	0.65
2:K:1220:ARG:HA	2:K:1229:VAL:O	1.96	0.65
1:C:444:LEU:HD22	1:C:448:MET:HG2	1.79	0.65
2:L:129:ILE:HD13	2:L:132:LYS:HE3	1.78	0.65
2:G:135:GLY:HA2	2:G:138:ARG:NH1	2.13	0.65
1:D:60:THR:HG23	2:J:1922:VAL:HG13	1.79	0.65
1:E:1183:VAL:HG11	1:E:1187:THR:HG21	1.79	0.65
1:A:1451:LYS:HG2	1:A:1454:ARG:NH2	2.12	0.64
2:I:854:VAL:CG2	2:I:1070:PRO:HA	2.27	0.64
2:L:1048:TRP:CD2	2:L:1049:GLN:HG2	2.32	0.64
2:J:172:ILE:HD11	2:J:501:TRP:HZ2	1.61	0.64
2:G:686:PRO:HB3	2:G:1187:PHE:CE1	2.32	0.64
2:G:1189:THR:O	2:G:1191:PRO:HD3	1.96	0.64
1:F:1413:SER:HA	1:F:1499:ARG:NH2	2.12	0.64
2:J:440:HIS:CD2	2:J:499:VAL:HG23	2.32	0.64
2:G:1918:VAL:HG13	2:G:2006:HIS:CB	2.27	0.64
2:H:1890:ARG:HH22	2:H:1996:ILE:CD1	2.10	0.64
2:J:779:GLY:HA3	2:J:811:MET:HE3	1.77	0.64
2:J:1603:PRO:HG2	2:J:1642:MET:HE3	1.78	0.64
2:G:87:VAL:HG22	2:G:98:ASN:HB3	1.79	0.64
2:I:358:ARG:NH2	2:I:383:VAL:HG21	2.12	0.64
2:J:1338:ARG:NH2	2:L:327:PRO:HD2	2.11	0.64
1:B:330:LYS:HG3	1:B:333:ARG:NH1	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:786:GLU:CD	2:J:786:GLU:H	1.99	0.64
1:E:444:LEU:HD22	1:E:448:MET:HG2	1.78	0.64
1:E:1541:GLN:HE22	1:E:1633:GLN:HE22	1.45	0.64
2:H:87:VAL:HG22	2:H:98:ASN:HB3	1.78	0.64
2:H:661:ASN:HD21	4:H:2101:FMN:HN3	1.44	0.64
2:L:661:ASN:HD21	4:L:2101:FMN:HN3	1.44	0.64
2:L:2036:ILE:CG2	2:L:2037:GLY:N	2.60	0.64
2:H:43:PHE:CD2	2:I:22:ARG:CG	2.79	0.64
2:K:1231:THR:HG22	2:K:1232:VAL:HG13	1.79	0.64
2:J:1090:ILE:O	2:J:1094:HIS:HD2	1.80	0.64
2:K:967:GLU:HG2	2:K:1000:TYR:CE1	2.32	0.64
2:I:549:ASN:ND2	2:I:551:GLU:H	1.94	0.64
1:B:553:ARG:HH22	1:B:563:GLN:HB3	1.62	0.64
1:C:852:LEU:HD12	3:C:1901:NAP:O2A	1.97	0.64
2:G:1220:ARG:HA	2:G:1229:VAL:O	1.97	0.64
2:K:610:PRO:CD	4:K:2101:FMN:H6	2.23	0.64
1:A:1342:ARG:HB2	1:A:1345:SER:HB2	1.79	0.64
2:K:1650:THR:O	2:K:1669:ALA:HA	1.96	0.64
2:L:605:VAL:HG22	2:L:816:MET:HG3	1.79	0.64
2:J:1099:LEU:HD12	2:J:1103:TYR:HB2	1.79	0.64
2:H:1290:TYR:CD2	2:H:1299:VAL:HB	2.30	0.64
2:L:1171:TRP:CZ3	2:L:1236:LEU:HB2	2.33	0.64
1:C:1149:LEU:HB2	1:F:1149:LEU:HB2	1.79	0.64
2:K:781:GLY:HA2	2:K:1071:VAL:HG13	1.78	0.64
1:C:1480:ARG:O	1:C:1484:GLU:HG3	1.97	0.64
2:G:756:ASP:HA	2:G:843:TRP:CH2	2.32	0.64
1:A:956:ILE:HA	2:G:977:PRO:HA	1.79	0.64
2:L:465:LEU:HD11	2:L:486:ILE:HD11	1.78	0.64
1:C:1702:ARG:HG3	1:C:1702:ARG:NH1	2.08	0.64
2:G:1067:LEU:HB2	4:G:2101:FMN:C7M	2.27	0.64
2:I:1048:TRP:CD2	2:I:1049:GLN:HG2	2.32	0.64
2:K:462:ALA:H	2:K:483:ASP:HA	1.61	0.64
1:F:1413:SER:HA	1:F:1499:ARG:HH22	1.61	0.64
1:D:852:LEU:HD12	3:D:1901:NAP:O2A	1.96	0.64
1:C:632:LEU:HA	1:C:635:ILE:CG2	2.27	0.64
2:J:1890:ARG:HH22	2:J:1996:ILE:CD1	2.10	0.64
2:I:1026:LYS:HG3	3:I:2102:NAP:N7A	2.11	0.64
2:J:270:ARG:HG3	2:J:274:GLU:OE1	1.98	0.64
2:K:789:TYR:HB3	2:K:790:PRO:HD3	1.80	0.64
1:E:421:ARG:NH2	1:E:1613:LYS:HB3	2.13	0.64
2:K:35:PHE:CE1	2:K:108:GLU:HG3	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:888:ILE:HA	1:B:891:LEU:HD12	1.79	0.64
1:E:1480:ARG:O	1:E:1484:GLU:HG3	1.98	0.64
2:H:347:PRO:HA	2:H:432:PHE:CD1	2.32	0.64
2:J:1220:ARG:HA	2:J:1229:VAL:O	1.97	0.64
2:J:1324:PHE:N	2:J:1583:VAL:HG11	2.12	0.64
2:J:1976:CYS:O	2:J:1980:THR:HG23	1.97	0.64
1:C:11:TYR:O	1:C:15:VAL:HG23	1.97	0.64
2:G:1324:PHE:HA	2:G:1583:VAL:HG11	1.79	0.64
1:B:31:THR:HG23	2:H:2040:ILE:HG21	1.78	0.64
2:G:220:GLN:C	2:G:222:PRO:HD3	2.17	0.64
2:J:1551:ILE:HG22	2:J:1552:GLU:HG3	1.79	0.64
2:I:756:ASP:HA	2:I:843:TRP:CH2	2.33	0.64
2:I:135:GLY:HA2	2:I:138:ARG:NH1	2.12	0.64
2:L:347:PRO:HA	2:L:432:PHE:CD1	2.32	0.64
2:H:781:GLY:HA2	2:H:1071:VAL:HG13	1.79	0.64
1:F:1342:ARG:HB2	1:F:1345:SER:HB2	1.78	0.64
1:D:998:GLY:HA3	1:D:1361:VAL:CG1	2.25	0.64
2:I:501:TRP:CZ2	2:I:528:THR:HG21	2.33	0.64
1:F:1081:ILE:HA	1:F:1163:GLN:NE2	2.13	0.64
2:H:1099:LEU:HD21	2:H:1107:GLU:HG2	1.80	0.64
2:J:549:ASN:HD22	2:J:550:THR:N	1.95	0.64
2:L:367:ALA:O	2:L:370:GLN:HB3	1.98	0.64
1:A:1068:TYR:O	1:A:1072:ILE:HG13	1.98	0.64
1:F:424:VAL:HG13	1:F:469:LEU:HD11	1.78	0.64
1:F:852:LEU:HD12	3:F:1901:NAP:O2A	1.96	0.64
2:H:584:SER:HB3	2:H:1114:GLU:O	1.97	0.64
2:H:1383:VAL:HG23	2:H:1428:TYR:HE1	1.62	0.64
1:A:70:ALA:O	2:I:403:LEU:HD12	1.97	0.64
2:G:950:TRP:CD1	2:G:956:LYS:HD3	2.33	0.64
1:D:828:TRP:HE1	1:D:838:THR:HA	1.62	0.64
2:I:1231:THR:HG22	2:I:1232:VAL:HG13	1.79	0.64
2:K:501:TRP:CZ2	2:K:528:THR:HG21	2.33	0.64
1:A:533:SER:CB	1:A:612:ILE:HB	2.27	0.64
1:A:612:ILE:HD12	1:F:579:MET:HE2	1.78	0.64
2:K:376:ARG:HE	2:L:1339:GLY:HA2	1.61	0.64
2:K:382:LEU:HB3	2:K:499:VAL:HB	1.80	0.64
2:I:467:ILE:HG23	2:I:468:PRO:HD2	1.80	0.64
2:L:1721:ARG:HH21	2:L:1853:ILE:HD12	1.62	0.64
2:I:1764:MET:HB3	2:I:1780:ILE:CD1	2.27	0.64
2:J:1370:LEU:HA	2:J:1435:TYR:HE2	1.63	0.64
1:B:767:HIS:CE1	1:E:767:HIS:CE1	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:767:HIS:CE1	1:E:767:HIS:HE1	2.15	0.64
2:L:35:PHE:CE1	2:L:108:GLU:HG3	2.32	0.64
1:D:843:VAL:HG13	1:D:900:ASP:HA	1.79	0.64
2:H:1356:ALA:HB3	2:H:1397:THR:HG22	1.78	0.64
1:C:424:VAL:HG13	1:C:469:LEU:HD11	1.79	0.64
2:I:293:ALA:HA	2:I:469:VAL:HG21	1.80	0.64
1:D:424:VAL:HG13	1:D:469:LEU:HD11	1.78	0.64
2:K:855:ILE:HD13	2:K:856:THR:N	2.13	0.64
2:I:600:VAL:HG13	2:I:601:PRO:CD	2.28	0.64
2:K:440:HIS:CD2	2:K:499:VAL:HG23	2.32	0.64
2:K:1232:VAL:HG12	2:K:1246:LEU:HD23	1.79	0.64
2:H:448:HIS:CD2	2:H:491:VAL:HG12	2.29	0.64
2:I:489:GLU:HA	2:I:492:ARG:NH1	2.12	0.64
2:I:1074:LYS:HE3	2:I:1075:TYR:HE1	1.61	0.64
1:F:486:VAL:CG1	1:F:647:GLY:HA3	2.27	0.64
1:F:1156:PHE:CZ	1:F:1316:TYR:HA	2.33	0.64
1:F:1081:ILE:HG13	1:F:1159:LEU:O	1.98	0.64
2:H:1099:LEU:HD12	2:H:1103:TYR:HB2	1.80	0.64
2:G:1092:ASN:HA	2:G:1095:ILE:HG12	1.80	0.64
2:J:1301:PHE:HB3	2:J:1364:ARG:HG3	1.80	0.64
2:K:38:PRO:HD2	2:K:104:LEU:HD11	1.78	0.64
2:L:1551:ILE:HG22	2:L:1552:GLU:HG3	1.78	0.64
2:G:20:SER:O	2:G:38:PRO:HA	1.98	0.64
2:L:1220:ARG:HA	2:L:1229:VAL:O	1.97	0.64
2:H:655:GLY:HA3	2:H:1272:ALA:CB	2.28	0.64
1:E:852:LEU:HD12	3:E:1901:NAP:O2A	1.97	0.64
2:H:752:HIS:NE2	2:H:856:THR:CG2	2.61	0.64
2:L:447:ALA:O	2:L:451:ILE:HG13	1.98	0.64
1:D:907:PHE:O	1:D:909:PRO:HD3	1.98	0.64
2:K:1890:ARG:HH22	2:K:1996:ILE:CD1	2.10	0.64
1:D:408:GLN:HG2	1:D:1610:ARG:NH1	2.12	0.64
1:E:1214:HIS:HD2	1:E:1216:SER:OG	1.79	0.64
1:E:1156:PHE:CZ	1:E:1316:TYR:HA	2.33	0.64
1:F:1214:HIS:HD2	1:F:1216:SER:OG	1.80	0.64
2:K:1099:LEU:HD21	2:K:1107:GLU:HG2	1.80	0.64
2:J:584:SER:HB3	2:J:1114:GLU:O	1.97	0.64
2:J:1456:LEU:HD11	2:J:1543:TYR:HE2	1.62	0.64
2:J:367:ALA:O	2:J:370:GLN:HB3	1.98	0.64
2:L:950:TRP:CD1	2:L:956:LYS:HD3	2.32	0.64
1:C:1250:LEU:HB2	1:F:1317:GLU:HG3	1.80	0.64
2:H:845:ASN:HB3	2:H:851:THR:OG1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:539:THR:O	1:D:542:GLN:HG2	1.97	0.64
2:H:374:GLU:CA	2:H:377:HIS:HD2	2.10	0.64
2:L:608:MET:H	2:L:612:THR:HB	1.62	0.64
2:L:612:THR:HG22	2:L:612:THR:O	1.98	0.64
2:G:250:PHE:HB2	2:G:251:PRO:HD3	1.80	0.64
1:B:1581:LEU:HD23	1:B:1617:ILE:HG12	1.80	0.64
2:I:1351:VAL:HG23	2:I:1584:SER:HA	1.79	0.64
2:J:1455:GLN:HB2	2:J:1551:ILE:HD11	1.79	0.64
1:E:41:THR:HG21	2:K:1691:ALA:HB2	1.80	0.64
2:G:1348:PHE:O	2:G:1351:VAL:HG12	1.98	0.64
1:D:421:ARG:HH22	1:D:1613:LYS:HB3	1.63	0.64
2:H:1692:TYR:HD1	2:H:1847:LEU:HD21	1.63	0.64
2:G:786:GLU:CD	2:G:786:GLU:H	2.01	0.64
1:B:1401:LEU:HD22	1:D:1697:LEU:HD21	1.80	0.64
2:L:265:CYS:SG	2:L:275:LEU:HD12	2.37	0.64
2:I:1232:VAL:HG12	2:I:1246:LEU:HD23	1.79	0.64
1:E:1413:SER:HA	1:E:1499:ARG:NH2	2.12	0.64
1:A:1102:ILE:HG22	1:A:1104:GLN:HG2	1.80	0.64
2:L:501:TRP:CZ2	2:L:528:THR:HG21	2.33	0.64
2:H:1181:PHE:O	2:H:1188:GLN:HB3	1.98	0.64
2:H:1180:VAL:HG12	2:H:1188:GLN:H	1.61	0.64
1:B:40:ARG:NH2	1:B:72:THR:HG22	2.13	0.64
2:I:1290:TYR:CD2	2:I:1299:VAL:HB	2.32	0.64
2:J:779:GLY:O	2:J:780:SER:CB	2.45	0.64
2:H:153:PRO:HB3	2:H:270:ARG:NH1	2.13	0.64
1:F:442:PRO:HD2	1:F:443:LEU:HD12	1.78	0.64
1:C:696:GLN:HG3	1:C:697:GLY:N	2.13	0.64
1:A:1386:THR:O	1:E:1270:THR:HA	1.97	0.64
2:G:367:ALA:O	2:G:370:GLN:HB3	1.98	0.64
2:I:698:SER:HB3	2:I:701:VAL:HG23	1.79	0.64
2:H:253:ILE:HB	2:H:287:GLN:HE22	1.61	0.64
1:F:1089:TYR:CE1	1:F:1312:GLU:HG3	2.33	0.64
2:L:253:ILE:HB	2:L:287:GLN:HE22	1.62	0.64
2:K:1456:LEU:HD11	2:K:1543:TYR:HE2	1.63	0.64
2:K:49:LYS:O	2:K:53:LEU:HG	1.98	0.64
1:D:655:ALA:HB3	1:D:680:VAL:HG12	1.80	0.64
1:F:808:PHE:HA	1:F:912:LYS:HD3	1.79	0.64
2:I:670:MET:HA	2:I:673:GLN:HB2	1.80	0.63
2:K:661:ASN:HD21	4:K:2101:FMN:HN3	1.44	0.63
2:H:162:ALA:HA	2:H:167:VAL:HG22	1.79	0.63
1:D:427:ARG:NH1	1:D:427:ARG:HG3	2.04	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:998:GLY:HA3	1:F:1361:VAL:CG1	2.25	0.63
2:G:172:ILE:HD11	2:G:501:TRP:HZ2	1.62	0.63
2:J:472:THR:H	2:J:493:MET:HE3	1.63	0.63
2:K:305:ALA:O	2:K:309:LYS:HD3	1.98	0.63
2:J:44:GLN:HG3	2:J:101:VAL:HG21	1.78	0.63
2:G:670:MET:HA	2:G:673:GLN:HB2	1.80	0.63
2:K:785:SER:HA	2:K:788:THR:HB	1.81	0.63
2:L:549:ASN:HD22	2:L:551:GLU:H	1.45	0.63
1:F:34:VAL:HG21	2:L:2045:ALA:O	1.97	0.63
2:K:110:GLU:HA	2:K:114:MET:HB2	1.80	0.63
2:J:220:GLN:C	2:J:222:PRO:HD3	2.18	0.63
1:F:1524:GLY:HA2	1:F:1531:ASP:OD1	1.98	0.63
1:F:1278:GLY:CA	1:F:1630:LYS:HE2	2.28	0.63
2:H:1067:LEU:HB2	4:H:2101:FMN:C7M	2.28	0.63
2:H:608:MET:H	2:H:612:THR:HB	1.63	0.63
2:L:1115:TYR:HB3	2:L:1267:PRO:CB	2.21	0.63
2:L:1046:SER:O	2:L:1049:GLN:HG3	1.98	0.63
2:G:937:ARG:NE	2:G:941:LEU:HD11	2.13	0.63
1:A:1425:LEU:HD21	1:A:1429:ARG:NH2	2.13	0.63
1:B:632:LEU:HA	1:B:635:ILE:CG2	2.27	0.63
1:C:470:GLY:O	1:C:474:ILE:HG13	1.96	0.63
1:A:1156:PHE:CZ	1:A:1316:TYR:HA	2.33	0.63
2:G:779:GLY:O	2:G:780:SER:CB	2.46	0.63
2:K:1090:ILE:O	2:K:1094:HIS:HD2	1.81	0.63
1:D:862:GLY:O	1:D:865:LYS:HB2	1.97	0.63
2:G:1266:HIS:NE2	2:G:1275:ARG:HD2	2.13	0.63
2:K:94:ALA:HB1	2:K:97:THR:OG1	1.98	0.63
1:D:12:THR:O	1:D:16:GLU:HG2	1.98	0.63
2:K:894:GLU:O	2:K:897:LYS:HG2	1.98	0.63
2:L:1807:GLN:HB2	2:L:1808:PRO:HD3	1.80	0.63
2:K:610:PRO:O	2:K:613:VAL:HG12	1.99	0.63
2:L:250:PHE:HB2	2:L:251:PRO:HD3	1.80	0.63
2:J:501:TRP:HZ2	2:J:528:THR:HG21	1.63	0.63
2:K:1265:TYR:O	2:K:1267:PRO:HD3	1.98	0.63
1:A:1363:MET:HE1	1:A:1373:VAL:CG2	2.28	0.63
2:J:207:LEU:O	2:J:211:LEU:HG	1.98	0.63
2:I:162:ALA:HA	2:I:167:VAL:HG22	1.79	0.63
1:D:1081:ILE:HA	1:D:1163:GLN:NE2	2.12	0.63
2:J:1846:ALA:HB3	2:J:1847:LEU:HD12	1.80	0.63
1:C:1213:VAL:HG22	1:C:1300:ARG:NH2	2.13	0.63
1:A:30:GLU:HB2	2:G:2045:ALA:HB1	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:THR:O	1:E:16:GLU:HG2	1.99	0.63
1:D:1094:LYS:HE3	1:D:1316:TYR:CD1	2.33	0.63
2:H:1231:THR:HG22	2:H:1232:VAL:HG13	1.79	0.63
1:B:1504:ARG:NH1	1:B:1504:ARG:CG	2.48	0.63
2:L:1232:VAL:HG12	2:L:1246:LEU:HD23	1.79	0.63
2:H:250:PHE:HB2	2:H:251:PRO:HD3	1.79	0.63
1:A:557:ARG:HG3	1:A:557:ARG:NH1	2.03	0.63
2:L:1181:PHE:O	2:L:1188:GLN:HB3	1.98	0.63
2:G:1331:THR:O	2:I:329:THR:HG22	1.98	0.63
2:K:1351:VAL:HG23	2:K:1584:SER:HA	1.80	0.63
2:J:1692:TYR:HD1	2:J:1847:LEU:HD21	1.63	0.63
1:C:1214:HIS:HD2	1:C:1216:SER:OG	1.80	0.63
2:I:1123:ALA:O	2:I:1126:GLU:HG3	1.98	0.63
2:L:655:GLY:HA3	2:L:1272:ALA:CB	2.29	0.63
2:L:827:GLN:H	2:L:827:GLN:NE2	1.96	0.63
1:F:1234:GLY:HA2	1:F:1238:ASP:HB2	1.81	0.63
2:G:253:ILE:HB	2:G:287:GLN:HE22	1.62	0.63
2:K:1404:VAL:HG22	2:K:1413:VAL:HG22	1.81	0.63
1:B:424:VAL:HG13	1:B:469:LEU:HD11	1.78	0.63
1:B:852:LEU:HD12	3:B:1901:NAP:O2A	1.99	0.63
2:K:1844:LEU:HB3	2:K:1850:VAL:HG21	1.81	0.63
1:F:339:GLN:O	1:F:343:ILE:HG13	1.98	0.63
2:J:276:LEU:HD12	2:J:298:ALA:O	1.97	0.63
2:I:1084:LYS:O	2:I:1088:ASP:HB2	1.99	0.63
2:H:1007:LEU:H	2:H:1007:LEU:CD1	2.11	0.63
1:F:1102:ILE:HG22	1:F:1104:GLN:HG2	1.81	0.63
2:H:580:LEU:HD12	2:H:1103:TYR:CE2	2.33	0.63
2:H:24:LEU:HD12	2:H:37:VAL:HG21	1.79	0.63
2:I:549:ASN:HD22	2:I:550:THR:N	1.97	0.63
2:K:22:ARG:O	2:K:37:VAL:HG23	1.99	0.63
2:J:1324:PHE:HA	2:J:1583:VAL:HG11	1.81	0.63
2:L:1455:GLN:HB2	2:L:1551:ILE:HD11	1.80	0.63
1:F:1086:PHE:CE2	1:F:1310:PHE:HD2	2.15	0.63
2:J:845:ASN:HB3	2:J:851:THR:OG1	1.97	0.63
1:D:442:PRO:HD2	1:D:443:LEU:HD12	1.81	0.63
2:K:1356:ALA:HB3	2:K:1397:THR:HG22	1.79	0.63
1:C:1336:GLU:O	1:C:1340:MET:HG2	1.99	0.63
2:I:967:GLU:HG2	2:I:1000:TYR:CE1	2.33	0.63
1:C:1168:TRP:NE1	1:C:1173:TYR:HE1	1.95	0.63
1:A:1483:ALA:HA	1:A:1486:GLN:HE21	1.64	0.63
2:I:655:GLY:HA3	2:I:1272:ALA:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:22:ARG:O	2:J:37:VAL:HG23	1.98	0.63
2:G:396:ILE:HD12	2:G:396:ILE:H	1.63	0.63
2:K:573:VAL:HG22	2:K:804:PRO:HB2	1.80	0.63
2:G:857:VAL:HG13	2:G:876:TRP:NE1	2.13	0.63
2:G:752:HIS:CE1	2:G:847:TYR:CE2	2.78	0.63
1:E:1700:GLN:O	1:E:1702:ARG:HG3	1.98	0.63
2:L:942:MET:HE2	2:L:955:LEU:HD13	1.81	0.63
2:K:276:LEU:HD12	2:K:298:ALA:O	1.98	0.63
2:G:1181:PHE:O	2:G:1188:GLN:HB3	1.99	0.63
2:G:1232:VAL:CG1	2:G:1246:LEU:HD23	2.27	0.63
1:D:1581:LEU:HD23	1:D:1617:ILE:HG12	1.80	0.63
2:J:186:LEU:HG	2:J:256:VAL:HG22	1.80	0.63
2:L:1370:LEU:HA	2:L:1435:TYR:HE2	1.63	0.63
2:K:1551:ILE:HG22	2:K:1552:GLU:HG3	1.80	0.63
2:G:580:LEU:HD12	2:G:1103:TYR:CE2	2.33	0.63
2:H:1551:ILE:HG22	2:H:1552:GLU:HG3	1.81	0.63
2:K:788:THR:HG22	2:K:1094:HIS:CE1	2.33	0.63
2:J:38:PRO:HD2	2:J:104:LEU:HD11	1.80	0.63
2:G:833:VAL:HG13	2:G:1077:LYS:HA	1.81	0.63
2:K:756:ASP:HA	2:K:843:TRP:CH2	2.33	0.63
2:H:367:ALA:O	2:H:370:GLN:HB3	1.99	0.63
2:H:110:GLU:HA	2:H:114:MET:HB2	1.81	0.63
2:G:875:PHE:CD1	2:G:905:LYS:HD3	2.34	0.63
2:L:1637:VAL:CG1	2:L:1679:LEU:HD22	2.28	0.63
1:F:632:LEU:HA	1:F:635:ILE:CG2	2.29	0.63
2:L:1890:ARG:HH22	2:L:1996:ILE:CD1	2.10	0.63
2:G:1370:LEU:HD12	2:G:1373:LEU:HD13	1.80	0.63
2:J:1318:ALA:HA	2:J:1391:VAL:CG2	2.29	0.63
1:D:41:THR:HG21	2:J:1691:ALA:HB2	1.81	0.63
1:E:1510:TRP:CZ3	1:E:1642:LEU:HA	2.34	0.63
2:J:1324:PHE:CA	2:J:1583:VAL:HG11	2.29	0.63
2:G:38:PRO:HD2	2:G:104:LEU:HD11	1.81	0.63
2:J:35:PHE:CE1	2:J:108:GLU:HG3	2.34	0.63
2:I:857:VAL:HG13	2:I:876:TRP:NE1	2.13	0.63
2:J:768:ILE:O	2:J:774:ILE:HD12	1.99	0.63
2:L:571:ASP:HB3	2:L:574:LYS:HB2	1.81	0.63
1:B:1260:ALA:O	1:B:1264:MET:HG3	1.98	0.63
2:H:827:GLN:NE2	2:H:827:GLN:H	1.96	0.63
2:I:276:LEU:HD12	2:I:298:ALA:O	1.99	0.63
2:J:827:GLN:NE2	2:J:827:GLN:H	1.97	0.63
2:I:1015:HIS:NE2	2:I:1019:LEU:HD11	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:613:VAL:CG1	2:H:614:PRO:HD3	2.28	0.63
2:L:1067:LEU:HB2	4:L:2101:FMN:C7M	2.29	0.63
1:C:430:VAL:O	1:C:434:ILE:HG13	1.99	0.63
2:J:1669:ALA:HB3	2:J:1679:LEU:HB2	1.81	0.63
2:G:1701:GLU:H	2:G:1704:MET:CE	2.12	0.63
2:J:1764:MET:HB3	2:J:1780:ILE:CD1	2.29	0.63
2:J:1436:ARG:HH22	2:J:1602:LEU:HD13	1.64	0.63
2:H:573:VAL:HG22	2:H:804:PRO:HB2	1.81	0.63
2:H:670:MET:HA	2:H:673:GLN:HB2	1.79	0.63
2:H:1090:ILE:O	2:H:1094:HIS:CD2	2.51	0.63
1:A:1032:MET:HE3	1:A:1165:PRO:HB3	1.80	0.63
2:J:1922:VAL:HB	2:J:1925:MET:HB2	1.80	0.63
2:H:141:TYR:OH	2:H:267:THR:HG23	1.98	0.63
1:A:852:LEU:HD12	3:A:1901:NAP:O2A	1.99	0.63
2:I:95:HIS:HB2	2:I:96:PRO:HD3	1.81	0.63
2:L:87:VAL:HG22	2:L:98:ASN:HB3	1.81	0.63
1:B:926:SER:O	1:B:930:GLN:HG2	1.98	0.63
2:L:1538:ASN:HB3	2:L:1541:ILE:HG22	1.81	0.63
1:F:683:THR:HB	1:F:714:PHE:HB3	1.81	0.63
2:K:934:VAL:O	2:K:938:MET:HG3	1.98	0.63
2:L:613:VAL:HG23	2:L:635:TYR:CE1	2.34	0.63
1:B:1102:ILE:HG22	1:B:1104:GLN:HG2	1.80	0.63
2:H:934:VAL:O	2:H:938:MET:HG3	1.98	0.63
2:K:1046:SER:O	2:K:1049:GLN:HG3	1.99	0.63
2:I:24:LEU:HD12	2:I:37:VAL:HG21	1.81	0.63
2:I:743:TRP:CG	2:I:761:ILE:HD11	2.33	0.63
2:L:1933:LEU:O	2:L:1989:LEU:HD21	1.99	0.63
2:G:1380:TYR:CD2	2:G:1429:VAL:HG22	2.34	0.63
2:K:1455:GLN:HB2	2:K:1551:ILE:CD1	2.28	0.63
2:H:38:PRO:HD2	2:H:104:LEU:HD11	1.80	0.63
2:G:967:GLU:HG2	2:G:1000:TYR:CE1	2.34	0.63
2:G:549:ASN:HD22	2:G:551:GLU:H	1.46	0.63
2:G:894:GLU:O	2:G:897:LYS:HG2	1.99	0.63
1:D:926:SER:O	1:D:930:GLN:HG2	1.99	0.63
2:L:193:TYR:CD1	2:L:263:ILE:HD13	2.33	0.63
2:L:372:LEU:HD11	2:L:397:SER:HB2	1.81	0.63
2:K:1171:TRP:C	2:K:1171:TRP:CD1	2.71	0.63
2:L:374:GLU:CA	2:L:377:HIS:HD2	2.12	0.62
1:A:574:ILE:HG22	1:A:579:MET:HB2	1.78	0.62
1:C:406:ALA:CA	1:C:439:ARG:HH11	2.07	0.62
2:K:462:ALA:N	2:K:483:ASP:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1436:ARG:HH22	2:I:1602:LEU:HD13	1.64	0.62
2:H:605:VAL:HG22	2:H:816:MET:HG3	1.81	0.62
1:B:40:ARG:HH21	1:B:72:THR:HG22	1.64	0.62
1:A:1363:MET:HE3	1:A:1368:ALA:HB2	1.81	0.62
2:J:250:PHE:HB2	2:J:251:PRO:HD3	1.80	0.62
2:L:747:ARG:NH1	2:L:780:SER:HB3	2.14	0.62
2:J:1099:LEU:HD21	2:J:1107:GLU:HG2	1.80	0.62
2:H:779:GLY:O	2:H:780:SER:CB	2.46	0.62
2:G:1871:VAL:HB	2:G:2003:VAL:HG22	1.81	0.62
1:F:506:ILE:HD13	1:F:922:ILE:HG22	1.81	0.62
2:K:1092:ASN:HA	2:K:1095:ILE:HG12	1.79	0.62
2:I:1455:GLN:HB2	2:I:1551:ILE:CD1	2.29	0.62
2:I:1551:ILE:HG22	2:I:1552:GLU:HG3	1.80	0.62
2:I:1383:VAL:HG23	2:I:1428:TYR:HE1	1.64	0.62
2:L:756:ASP:HA	2:L:843:TRP:CH2	2.34	0.62
2:H:1722:ALA:CB	2:H:1812:LEU:HD21	2.29	0.62
2:J:1421:ARG:HD2	2:J:1426:VAL:HG21	1.80	0.62
2:G:1318:ALA:HA	2:G:1391:VAL:HG21	1.80	0.62
1:B:565:GLN:O	1:B:569:LEU:HD12	1.99	0.62
1:C:755:GLU:HG2	1:D:831:GLU:HG2	1.81	0.62
1:D:1504:ARG:CG	1:D:1504:ARG:NH1	2.45	0.62
2:K:917:ARG:N	2:K:917:ARG:HD2	2.14	0.62
2:L:1650:THR:O	2:L:1669:ALA:HA	1.98	0.62
2:L:663:ILE:CD1	2:L:663:ILE:H	2.10	0.62
2:G:501:TRP:CZ2	2:G:528:THR:HG21	2.34	0.62
2:H:1650:THR:O	2:H:1669:ALA:HA	1.99	0.62
2:I:20:SER:O	2:I:38:PRO:HA	1.98	0.62
2:L:779:GLY:O	2:L:780:SER:CB	2.46	0.62
2:J:1933:LEU:O	2:J:1989:LEU:HD21	1.99	0.62
1:C:22:PHE:HE2	2:I:2017:PHE:CG	2.16	0.62
2:I:824:THR:HB	2:I:829:LYS:HE3	1.81	0.62
2:K:193:TYR:CD1	2:K:263:ILE:HD13	2.33	0.62
2:G:788:THR:HG22	2:G:1094:HIS:CE1	2.33	0.62
2:L:186:LEU:HG	2:L:256:VAL:HG22	1.81	0.62
2:J:20:SER:O	2:J:38:PRO:HA	1.97	0.62
2:G:372:LEU:HD11	2:G:397:SER:HB2	1.80	0.62
2:H:1579:ASN:O	2:H:1583:VAL:HG23	1.98	0.62
1:E:683:THR:HB	1:E:714:PHE:HB3	1.80	0.62
1:F:12:THR:O	1:F:16:GLU:HG2	1.99	0.62
1:C:1451:LYS:HG2	1:C:1454:ARG:NH2	2.15	0.62
1:D:1470:ARG:O	1:D:1474:ILE:HG13	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:612:THR:HG22	2:H:612:THR:O	1.98	0.62
2:L:623:ASN:OD1	2:L:653:PRO:HD3	1.98	0.62
2:L:926:LEU:O	2:L:1008:ILE:HD11	1.99	0.62
2:H:1178:THR:HG22	2:H:1180:VAL:H	1.62	0.62
2:G:796:TRP:CH2	2:G:805:MET:HE1	2.34	0.62
1:A:1209:PHE:CE2	1:A:1301:VAL:HG21	2.33	0.62
1:B:1081:ILE:HA	1:B:1163:GLN:NE2	2.14	0.62
1:A:1510:TRP:CZ3	1:A:1642:LEU:HA	2.35	0.62
1:C:1480:ARG:NH2	1:F:1488:SER:O	2.30	0.62
2:K:698:SER:HB3	2:K:701:VAL:HG23	1.80	0.62
2:G:193:TYR:CD1	2:G:263:ILE:HD13	2.33	0.62
2:H:549:ASN:HD22	2:H:550:THR:N	1.97	0.62
1:D:636:TYR:CZ	1:D:640:LEU:HD22	2.34	0.62
1:E:1086:PHE:CE2	1:E:1310:PHE:HD2	2.16	0.62
2:H:964:ARG:O	2:H:967:GLU:HB2	1.99	0.62
2:L:276:LEU:HD12	2:L:298:ALA:O	1.98	0.62
2:H:440:HIS:CD2	2:H:499:VAL:HG23	2.33	0.62
2:J:1200:ARG:HD3	2:J:1200:ARG:N	2.09	0.62
2:K:917:ARG:HD3	2:K:937:ARG:NH2	2.14	0.62
2:J:685:VAL:HG23	2:J:1186:ARG:NH1	2.14	0.62
2:L:376:ARG:CB	2:L:394:PRO:HG2	2.29	0.62
2:L:1922:VAL:HB	2:L:1925:MET:HB2	1.81	0.62
2:G:1231:THR:CG2	2:G:1595:VAL:HG11	2.29	0.62
1:B:562:SER:HB3	1:E:551:LEU:CD2	2.30	0.62
2:L:20:SER:O	2:L:38:PRO:HA	1.99	0.62
2:K:706:ILE:HG22	2:K:707:GLN:HG2	1.80	0.62
1:E:1462:ASP:HB2	1:E:1465:ALA:HB3	1.80	0.62
2:J:571:ASP:HB3	2:J:574:LYS:HB2	1.82	0.62
2:K:1922:VAL:HB	2:K:1925:MET:HB2	1.82	0.62
1:B:1234:GLY:HA2	1:B:1238:ASP:HB2	1.81	0.62
1:B:1704:THR:HG23	1:B:1714:PRO:HG3	1.80	0.62
2:H:396:ILE:HD12	2:H:396:ILE:H	1.64	0.62
1:F:617:LEU:N	1:F:617:LEU:HD23	2.13	0.62
2:H:1404:VAL:HG22	2:H:1413:VAL:HG22	1.81	0.62
2:K:608:MET:H	2:K:612:THR:HB	1.65	0.62
2:K:670:MET:HA	2:K:673:GLN:HB2	1.81	0.62
1:D:1702:ARG:NH1	1:D:1702:ARG:CG	2.40	0.62
1:A:632:LEU:HA	1:A:635:ILE:CG2	2.29	0.62
2:K:272:PRO:O	2:K:276:LEU:HB2	1.99	0.62
2:K:779:GLY:HA3	2:K:811:MET:HE3	1.80	0.62
2:J:1442:TYR:O	2:J:1445:THR:HG22	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1005:TRP:NE1	1:E:1561:LEU:CD2	2.62	0.62
1:E:1005:TRP:CD1	1:E:1561:LEU:HD22	2.35	0.62
2:J:789:TYR:HB3	2:J:790:PRO:HD3	1.81	0.62
2:H:1933:LEU:O	2:H:1989:LEU:HD21	1.99	0.62
2:G:743:TRP:HZ2	2:G:757:PHE:HA	1.63	0.62
2:H:190:TYR:CD1	2:H:201:ILE:HD13	2.34	0.62
1:C:503:ARG:HA	1:C:933:ILE:HD11	1.81	0.62
2:L:190:TYR:HD1	2:L:201:ILE:HD13	1.63	0.62
2:H:549:ASN:HD22	2:H:551:GLU:H	1.46	0.62
2:J:1729:ASN:O	2:J:1757:ILE:HG23	1.99	0.62
2:G:1515:LEU:O	2:G:1523:ILE:HD12	2.00	0.62
2:J:95:HIS:HB2	2:J:96:PRO:HD3	1.81	0.62
1:A:60:THR:HG23	2:G:1922:VAL:HG13	1.82	0.62
2:L:781:GLY:HA2	2:L:1071:VAL:HG13	1.81	0.62
2:H:293:ALA:HA	2:H:469:VAL:HG21	1.80	0.62
1:D:1514:ILE:O	1:D:1547:ARG:NH1	2.33	0.62
2:J:1007:LEU:HD12	2:J:1007:LEU:N	2.12	0.62
2:J:1871:VAL:HB	2:J:2003:VAL:HG22	1.80	0.62
2:G:472:THR:H	2:G:493:MET:HE3	1.64	0.62
2:J:447:ALA:O	2:J:451:ILE:HG13	1.99	0.62
2:I:461:PRO:HA	2:I:484:GLU:O	2.00	0.62
2:J:743:TRP:HZ2	2:J:757:PHE:HA	1.65	0.62
2:G:1099:LEU:HD12	2:G:1103:TYR:HB2	1.80	0.62
1:A:620:LYS:HA	1:A:625:ASN:O	1.98	0.62
1:D:1113:LYS:HG3	1:D:1138:TYR:CE2	2.35	0.62
1:E:1267:LEU:HD11	1:E:1303:LEU:HD12	1.81	0.62
2:H:49:LYS:O	2:H:53:LEU:HG	1.99	0.62
2:G:380:ILE:O	2:G:380:ILE:HG13	1.98	0.62
2:K:618:VAL:O	2:K:622:MET:HG3	1.99	0.62
2:L:846:THR:HG22	2:L:856:THR:N	2.15	0.62
2:J:1404:VAL:HG22	2:J:1413:VAL:HG22	1.82	0.62
2:H:276:LEU:HD12	2:H:298:ALA:O	2.00	0.62
2:I:1874:ASP:OD1	2:I:1878:ARG:HB3	2.00	0.62
2:J:1468:ARG:NH1	2:J:1475:LEU:HB2	2.14	0.62
2:I:573:VAL:HG22	2:I:804:PRO:HB2	1.81	0.62
2:I:1318:ALA:HA	2:I:1391:VAL:CG2	2.29	0.62
2:L:1318:ALA:HA	2:L:1391:VAL:CG2	2.30	0.62
1:D:766:ALA:HA	1:D:769:ILE:HD12	1.80	0.62
1:D:1606:VAL:O	1:D:1608:PRO:HD3	2.00	0.62
1:F:843:VAL:HG13	1:F:900:ASP:HA	1.82	0.62
1:A:551:LEU:HD21	1:F:562:SER:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:978:LYS:HB3	1:F:979:PRO:HD3	1.82	0.62
2:G:1015:HIS:NE2	2:G:1019:LEU:HD11	2.14	0.62
2:K:1328:VAL:HA	2:K:1611:TYR:HE1	1.64	0.62
1:D:433:CYS:O	1:D:437:MET:HG3	1.99	0.62
2:H:699:ILE:H	2:H:699:ILE:HD12	1.64	0.62
2:J:293:ALA:HA	2:J:469:VAL:HG21	1.81	0.62
2:I:610:PRO:O	2:I:613:VAL:HG12	2.00	0.62
2:K:612:THR:HG22	2:K:612:THR:O	1.98	0.62
1:A:399:TYR:OH	1:A:692:THR:HG23	1.99	0.62
2:L:855:ILE:HD13	2:L:856:THR:N	2.15	0.62
1:B:1100:VAL:HG21	1:B:1150:ILE:HD12	1.82	0.62
2:G:855:ILE:HD13	2:G:856:THR:N	2.13	0.62
2:K:937:ARG:NE	2:K:941:LEU:HD11	2.15	0.62
2:L:1180:VAL:HG12	2:L:1188:GLN:H	1.65	0.62
2:G:1612:THR:O	2:G:1616:VAL:HG12	1.99	0.62
1:A:532:ILE:HG21	1:A:907:PHE:HB2	1.82	0.62
2:J:796:TRP:CH2	2:J:805:MET:HE1	2.34	0.62
2:I:1350:ILE:O	2:I:1354:TRP:HB2	1.99	0.62
2:H:854:VAL:HG21	2:H:1070:PRO:CA	2.27	0.62
2:G:1290:TYR:CD2	2:G:1299:VAL:HB	2.34	0.62
2:L:743:TRP:HZ2	2:L:757:PHE:HA	1.64	0.62
2:G:1340:LYS:HE3	2:I:376:ARG:HH22	1.65	0.62
2:G:1468:ARG:NH1	2:G:1475:LEU:HB2	2.14	0.62
2:I:1922:VAL:HB	2:I:1925:MET:HB2	1.82	0.62
1:C:746:PHE:CE1	1:C:800:PRO:HG3	2.35	0.62
2:H:967:GLU:HG2	2:H:1000:TYR:CE1	2.34	0.62
1:C:1317:GLU:HG3	1:F:1250:LEU:HB2	1.81	0.62
2:H:186:LEU:HG	2:H:256:VAL:HG22	1.82	0.62
1:E:11:TYR:O	1:E:15:VAL:HG23	1.99	0.62
2:J:49:LYS:O	2:J:53:LEU:HG	1.99	0.62
2:I:699:ILE:HD12	2:I:699:ILE:H	1.63	0.62
1:E:1524:GLY:HA2	1:E:1531:ASP:OD1	2.00	0.62
2:J:1232:VAL:HG12	2:J:1246:LEU:HD23	1.80	0.62
2:H:855:ILE:HD13	2:H:856:THR:N	2.15	0.62
2:K:374:GLU:CA	2:K:377:HIS:CD2	2.78	0.62
2:G:1637:VAL:CG1	2:G:1679:LEU:HD22	2.30	0.62
2:I:1189:THR:O	2:I:1191:PRO:HD3	1.99	0.62
2:K:779:GLY:O	2:K:780:SER:CB	2.47	0.62
1:C:911:LEU:O	1:C:915:MET:HG3	2.00	0.62
1:A:1005:TRP:NE1	1:A:1561:LEU:CD2	2.63	0.62
1:C:1581:LEU:HD23	1:C:1617:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1454:MET:CE	2:G:1550:SER:HA	2.28	0.62
2:H:388:ASN:HD22	2:H:388:ASN:C	2.03	0.62
2:H:44:GLN:HG3	2:H:101:VAL:HG21	1.81	0.62
2:G:1351:VAL:HG23	2:G:1584:SER:HA	1.82	0.62
1:D:1156:PHE:CZ	1:D:1316:TYR:HA	2.34	0.62
2:I:964:ARG:O	2:I:967:GLU:HB2	1.99	0.62
2:K:549:ASN:HD22	2:K:550:THR:N	1.98	0.62
1:C:862:GLY:O	1:C:865:LYS:HB2	1.99	0.62
1:D:947:ASP:O	1:D:951:LEU:HG	1.99	0.62
2:L:845:ASN:HB3	2:L:851:THR:OG1	1.99	0.62
1:B:550:LYS:NZ	1:B:631:LYS:HE2	2.15	0.62
1:E:433:CYS:O	1:E:437:MET:HG3	2.00	0.62
2:H:47:GLN:NE2	2:I:23:PRO:HB2	2.14	0.62
2:G:1356:ALA:HB3	2:G:1397:THR:HG22	1.81	0.62
1:D:1524:GLY:HA2	1:D:1531:ASP:OD1	2.00	0.62
1:F:620:LYS:HA	1:F:625:ASN:O	2.00	0.62
2:K:365:ILE:HG23	2:K:378:ILE:HG22	1.81	0.62
2:I:190:TYR:HD1	2:I:201:ILE:HD13	1.65	0.62
1:F:1702:ARG:HG3	1:F:1702:ARG:NH1	2.10	0.62
2:I:1048:TRP:HE1	2:I:1049:GLN:HE21	1.48	0.62
2:L:1048:TRP:HE1	2:L:1049:GLN:HE21	1.47	0.62
2:G:1650:THR:O	2:G:1669:ALA:HA	1.99	0.62
1:F:1670:HIS:CE1	2:L:1009:ASN:ND2	2.68	0.62
1:F:406:ALA:CA	1:F:439:ARG:HH11	2.10	0.62
2:J:934:VAL:O	2:J:938:MET:HG3	2.00	0.62
2:J:854:VAL:HG21	2:J:1070:PRO:CA	2.28	0.62
2:L:1436:ARG:NH2	2:L:1602:LEU:HD11	2.15	0.62
1:B:1156:PHE:CZ	1:B:1316:TYR:HA	2.35	0.62
1:D:1081:ILE:HG13	1:D:1159:LEU:O	2.00	0.62
2:K:1393:ASP:HB3	2:K:1395:LEU:HD21	1.81	0.62
2:G:1090:ILE:O	2:G:1094:HIS:HD2	1.83	0.62
2:G:1324:PHE:CA	2:G:1583:VAL:HG11	2.30	0.62
2:K:549:ASN:HD22	2:K:551:GLU:H	1.46	0.62
2:K:549:ASN:ND2	2:K:551:GLU:H	1.97	0.62
2:K:1318:ALA:HA	2:K:1391:VAL:HG21	1.81	0.62
2:G:1722:ALA:CB	2:G:1812:LEU:HD21	2.30	0.62
2:G:902:ILE:O	2:G:906:LEU:HB2	1.99	0.62
2:H:1844:LEU:HB3	2:H:1850:VAL:HG21	1.80	0.62
1:C:31:THR:HG23	2:I:2040:ILE:HG21	1.82	0.62
2:G:827:GLN:H	2:G:827:GLN:NE2	1.97	0.62
2:I:1579:ASN:O	2:I:1583:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1107:GLU:HG3	1:B:1108:PRO:CD	2.30	0.61
2:K:1180:VAL:HG12	2:K:1188:GLN:H	1.64	0.61
2:J:917:ARG:HD2	2:J:917:ARG:N	2.16	0.61
2:J:937:ARG:NE	2:J:941:LEU:HD11	2.14	0.61
2:I:1375:HIS:HE1	2:I:1610:MET:SD	2.22	0.61
2:J:1650:THR:O	2:J:1669:ALA:HA	2.00	0.61
1:B:911:LEU:O	1:B:915:MET:HG3	1.99	0.61
1:D:1005:TRP:CD1	1:D:1561:LEU:HD22	2.35	0.61
2:J:1700:GLN:HA	2:J:1704:MET:CE	2.30	0.61
2:I:1871:VAL:HB	2:I:2003:VAL:HG22	1.79	0.61
2:L:388:ASN:C	2:L:388:ASN:HD22	2.02	0.61
2:K:1871:VAL:HB	2:K:2003:VAL:HG22	1.81	0.61
2:L:22:ARG:O	2:L:37:VAL:HG23	1.99	0.61
1:A:1081:ILE:HA	1:A:1163:GLN:NE2	2.14	0.61
2:I:49:LYS:O	2:I:53:LEU:HG	2.00	0.61
1:E:843:VAL:HG13	1:E:900:ASP:HA	1.81	0.61
2:L:1290:TYR:CD2	2:L:1299:VAL:HB	2.35	0.61
1:B:1090:ASP:OD1	1:B:1092:ASN:HB2	2.00	0.61
2:J:1897:GLU:HG2	2:J:1901:GLN:HE21	1.65	0.61
2:H:833:VAL:HG13	2:H:1077:LYS:HA	1.82	0.61
2:I:1099:LEU:HD21	2:I:1107:GLU:HG2	1.80	0.61
2:I:832:ILE:HA	2:I:868:LEU:HD11	1.82	0.61
2:L:272:PRO:O	2:L:276:LEU:HB2	2.00	0.61
2:G:2036:ILE:CG2	2:G:2037:GLY:N	2.63	0.61
1:F:883:LEU:HA	1:F:888:ILE:HD12	1.81	0.61
2:H:376:ARG:HH22	2:I:1340:LYS:CE	2.12	0.61
2:L:1455:GLN:HB2	2:L:1551:ILE:CD1	2.30	0.61
1:A:30:GLU:HB2	2:G:2045:ALA:CB	2.30	0.61
1:B:746:PHE:CE1	1:B:800:PRO:HG3	2.34	0.61
2:G:190:TYR:HD1	2:G:201:ILE:HD13	1.64	0.61
2:I:193:TYR:CD1	2:I:263:ILE:HD13	2.36	0.61
1:B:978:LYS:HB3	1:B:979:PRO:HD3	1.83	0.61
1:D:68:TYR:HD1	2:L:371:HIS:CD2	2.17	0.61
2:J:141:TYR:OH	2:J:267:THR:HG23	2.01	0.61
1:E:1234:GLY:HA2	1:E:1238:ASP:HB2	1.80	0.61
2:G:110:GLU:HA	2:G:114:MET:HB2	1.80	0.61
1:A:696:GLN:HG3	1:A:697:GLY:N	2.14	0.61
2:L:1574:PRO:HD3	2:L:1611:TYR:CE2	2.35	0.61
1:C:843:VAL:HG13	1:C:900:ASP:HA	1.82	0.61
1:B:1448:ALA:HA	1:B:1451:LYS:CE	2.30	0.61
2:K:752:HIS:CE1	2:K:847:TYR:CE2	2.76	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ARG:CG	1:A:557:ARG:NH1	2.55	0.61
2:K:2036:ILE:CG2	2:K:2037:GLY:N	2.63	0.61
2:J:501:TRP:CZ2	2:J:528:THR:HG21	2.35	0.61
2:I:1370:LEU:HD12	2:I:1373:LEU:HD13	1.81	0.61
2:K:876:TRP:C	2:K:876:TRP:CD1	2.72	0.61
2:G:931:TYR:O	2:G:935:VAL:HG12	2.00	0.61
2:L:1603:PRO:HG2	2:L:1642:MET:HE3	1.82	0.61
2:K:1700:GLN:HA	2:K:1704:MET:CE	2.31	0.61
2:H:857:VAL:CG1	2:H:876:TRP:NE1	2.62	0.61
2:K:902:ILE:O	2:K:906:LEU:HB2	1.99	0.61
2:H:596:ARG:HH22	2:H:1113:ILE:CD1	2.12	0.61
1:C:926:SER:O	1:C:930:GLN:HG2	1.99	0.61
1:D:696:GLN:HG3	1:D:697:GLY:N	2.15	0.61
2:I:1538:ASN:HB3	2:I:1541:ILE:HG22	1.82	0.61
2:H:1922:VAL:HB	2:H:1925:MET:HB2	1.83	0.61
2:H:1845:VAL:HG21	2:H:1856:LEU:HD22	1.81	0.61
2:K:1305:LEU:HD12	2:K:1305:LEU:H	1.65	0.61
1:C:1448:ALA:HA	1:C:1451:LYS:CE	2.29	0.61
2:K:832:ILE:HA	2:K:868:LEU:HD11	1.81	0.61
1:E:557:ARG:NH1	1:E:557:ARG:HG3	2.02	0.61
2:J:855:ILE:HD13	2:J:856:THR:N	2.14	0.61
1:D:430:VAL:O	1:D:434:ILE:HG13	2.00	0.61
2:G:608:MET:H	2:G:612:THR:HB	1.65	0.61
2:L:1200:ARG:HD3	2:L:1200:ARG:N	2.07	0.61
1:F:1700:GLN:O	1:F:1702:ARG:HG3	2.01	0.61
2:J:926:LEU:O	2:J:1008:ILE:HD11	2.00	0.61
2:I:174:GLY:H	2:I:517:GLY:HA3	1.65	0.61
2:J:867:LYS:HD3	2:J:1065:CYS:SG	2.40	0.61
2:K:857:VAL:HG13	2:K:876:TRP:HE1	1.65	0.61
2:J:289:ILE:HG12	2:J:493:MET:HE1	1.82	0.61
2:I:447:ALA:O	2:I:451:ILE:HG13	2.01	0.61
1:A:1581:LEU:HD23	1:A:1617:ILE:HG12	1.82	0.61
2:H:1455:GLN:HB2	2:H:1551:ILE:CD1	2.30	0.61
1:F:926:SER:O	1:F:930:GLN:HG2	2.00	0.61
2:J:596:ARG:HH22	2:J:1113:ILE:CD1	2.13	0.61
2:H:1846:ALA:HB3	2:H:1847:LEU:HD12	1.81	0.61
2:J:24:LEU:HD12	2:J:37:VAL:HG21	1.82	0.61
1:B:1697:LEU:HD21	1:D:1401:LEU:HD22	1.83	0.61
2:L:95:HIS:HB2	2:L:96:PRO:HD3	1.82	0.61
2:I:1966:ARG:O	2:I:1970:VAL:HG23	2.00	0.61
2:L:49:LYS:O	2:L:53:LEU:HG	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1897:GLU:HG2	2:G:1901:GLN:HE21	1.64	0.61
2:J:87:VAL:HG22	2:J:98:ASN:HB3	1.83	0.61
1:B:1483:ALA:HA	1:B:1486:GLN:HE21	1.65	0.61
2:L:110:GLU:HA	2:L:114:MET:HB2	1.82	0.61
2:L:1305:LEU:HD11	2:L:1365:LYS:HD2	1.82	0.61
2:G:1400:GLN:HG3	2:G:1448:ARG:HH12	1.65	0.61
2:I:845:ASN:HB3	2:I:851:THR:OG1	2.00	0.61
1:E:1451:LYS:HG2	1:E:1454:ARG:NH2	2.14	0.61
2:I:612:THR:O	2:I:612:THR:HG22	2.00	0.61
1:A:562:SER:HB3	1:F:555:GLN:OE1	1.99	0.61
2:K:1178:THR:HG22	2:K:1180:VAL:H	1.64	0.61
1:A:427:ARG:HD2	1:A:490:VAL:HG12	1.81	0.61
2:J:1048:TRP:HE1	2:J:1049:GLN:HE21	1.46	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:HD12	1.82	0.61
2:J:605:VAL:HG22	2:J:816:MET:HG3	1.82	0.61
2:K:747:ARG:NH2	2:K:757:PHE:CE1	2.69	0.61
2:G:1436:ARG:HH22	2:G:1602:LEU:HD13	1.65	0.61
2:I:1764:MET:HG3	2:I:1781:PHE:CE1	2.36	0.61
1:A:767:HIS:HE1	1:F:767:HIS:CE1	2.18	0.61
2:J:756:ASP:HA	2:J:843:TRP:HH2	1.65	0.61
2:G:549:ASN:ND2	2:G:551:GLU:H	1.97	0.61
1:F:444:LEU:HD22	1:F:448:MET:HG2	1.80	0.61
2:K:348:THR:HB	2:K:349:PRO:CD	2.31	0.61
1:A:843:VAL:HG13	1:A:900:ASP:HA	1.83	0.61
2:J:699:ILE:HD12	2:J:699:ILE:H	1.65	0.61
2:J:190:TYR:HD1	2:J:201:ILE:HD13	1.64	0.61
2:I:1232:VAL:CG1	2:I:1246:LEU:HD23	2.31	0.61
2:G:661:ASN:HD21	4:G:2101:FMN:HN3	1.48	0.61
2:J:1048:TRP:CD2	2:J:1049:GLN:HG2	2.35	0.61
2:J:1046:SER:O	2:J:1049:GLN:HG3	2.00	0.61
2:K:2036:ILE:HG22	2:K:2037:GLY:H	1.64	0.61
2:J:501:TRP:HE1	2:J:528:THR:CG2	2.11	0.61
2:H:942:MET:HE2	2:H:955:LEU:HD13	1.82	0.61
2:I:942:MET:CE	2:I:955:LEU:HB3	2.30	0.61
2:L:832:ILE:HA	2:L:868:LEU:HD11	1.82	0.61
2:L:868:LEU:O	2:L:870:THR:HG23	2.01	0.61
1:F:13:LEU:HD11	2:L:2058:VAL:HG21	1.83	0.61
2:K:741:LEU:HG	2:K:741:LEU:O	2.00	0.61
2:H:2005:PHE:HB3	2:H:2010:LEU:HD11	1.82	0.61
2:H:1092:ASN:HA	2:H:1095:ILE:HG12	1.81	0.61
2:G:44:GLN:HG3	2:G:101:VAL:HG21	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:87:VAL:HG22	2:K:98:ASN:HB3	1.81	0.61
1:A:486:VAL:CG1	1:A:647:GLY:HA3	2.30	0.61
2:G:580:LEU:HD11	2:G:1098:LEU:HB3	1.82	0.61
2:K:794:GLY:O	2:K:804:PRO:HA	2.01	0.61
2:H:95:HIS:HB2	2:H:96:PRO:HD3	1.83	0.61
2:J:962:PHE:O	2:J:966:VAL:HG23	2.01	0.61
2:L:57:PRO:HG2	2:L:68:GLU:HG3	1.83	0.61
1:C:339:GLN:O	1:C:343:ILE:HG13	2.01	0.61
2:G:49:LYS:O	2:G:53:LEU:HG	2.01	0.61
2:L:209:GLN:O	2:L:213:ARG:HG3	2.00	0.61
1:C:533:SER:HA	1:C:907:PHE:CE1	2.35	0.61
1:B:655:ALA:HB3	1:B:680:VAL:HG12	1.83	0.61
1:D:1323:ALA:HB1	1:D:1351:PHE:HE2	1.65	0.61
2:K:1457:HIS:ND1	2:K:1487:THR:HG22	2.16	0.61
1:A:1470:ARG:O	1:A:1474:ILE:HG13	1.99	0.61
2:G:618:VAL:O	2:G:622:MET:HG3	2.01	0.61
2:K:167:VAL:CG2	2:K:169:ILE:HG13	2.29	0.61
2:I:1180:VAL:HG12	2:I:1188:GLN:H	1.65	0.61
2:H:686:PRO:HB3	2:H:1187:PHE:CE1	2.35	0.61
2:I:1650:THR:O	2:I:1669:ALA:HA	2.01	0.61
2:G:1873:ARG:NH1	2:G:2002:ASP:HB3	2.16	0.61
1:D:911:LEU:O	1:D:915:MET:HG3	2.00	0.61
1:C:1218:VAL:HG13	1:C:1301:VAL:HG13	1.81	0.61
1:D:1363:MET:HE3	1:D:1368:ALA:HB2	1.81	0.61
2:H:305:ALA:O	2:H:309:LYS:HD3	2.01	0.61
2:H:1721:ARG:HH21	2:H:1853:ILE:HD12	1.65	0.61
2:L:117:ASN:HA	2:L:561:ARG:HG3	1.82	0.61
2:J:1674:THR:HB	2:J:1676:GLU:HG3	1.83	0.61
1:B:405:TRP:CZ3	1:B:1609:SER:HB3	2.35	0.61
1:F:947:ASP:O	1:F:951:LEU:HG	1.99	0.61
2:J:351:LEU:HD22	2:J:352:SER:N	2.15	0.61
1:A:853:MET:HG2	1:A:856:ASN:HD22	1.65	0.61
1:F:1490:GLY:O	1:F:1509:THR:HB	2.01	0.61
1:E:620:LYS:HA	1:E:625:ASN:O	2.00	0.61
2:I:1851:MET:HE1	2:I:1855:SER:HB3	1.83	0.61
1:C:947:ASP:O	1:C:951:LEU:HG	2.00	0.61
2:L:532:LYS:HD3	2:L:537:VAL:HG21	1.82	0.61
1:F:1451:LYS:HG2	1:F:1454:ARG:NH2	2.16	0.61
2:H:1232:VAL:CG1	2:H:1246:LEU:HD23	2.30	0.61
2:I:608:MET:H	2:I:612:THR:HB	1.66	0.61
2:G:752:HIS:NE2	2:G:856:THR:CG2	2.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1702:ARG:HG3	1:E:1702:ARG:NH1	2.09	0.61
1:A:1100:VAL:HG21	1:A:1150:ILE:CD1	2.30	0.61
2:K:462:ALA:HB2	2:K:481:LEU:HB2	1.82	0.61
1:F:669:VAL:O	1:F:673:LEU:HD12	2.01	0.61
1:F:1363:MET:HE3	1:F:1368:ALA:HB2	1.82	0.61
2:J:580:LEU:HD12	2:J:1103:TYR:CE2	2.35	0.61
2:L:1468:ARG:NH1	2:L:1475:LEU:HB2	2.14	0.61
1:E:1640:LYS:HG3	1:E:1641:TYR:HD1	1.65	0.61
2:K:186:LEU:HG	2:K:256:VAL:HG22	1.82	0.61
2:I:388:ASN:HD22	2:I:388:ASN:C	2.03	0.61
2:I:1092:ASN:HA	2:I:1095:ILE:HG12	1.83	0.61
1:F:1090:ASP:OD1	1:F:1092:ASN:HB2	2.00	0.61
2:I:706:ILE:HG22	2:I:707:GLN:HG2	1.83	0.61
1:E:405:TRP:CZ3	1:E:1609:SER:HB3	2.36	0.61
2:I:902:ILE:O	2:I:906:LEU:HB2	2.01	0.61
1:B:617:LEU:HD23	1:B:617:LEU:N	2.15	0.61
1:F:427:ARG:CG	1:F:427:ARG:NH1	2.53	0.61
2:L:467:ILE:HG23	2:L:468:PRO:HD2	1.83	0.61
2:J:653:PRO:O	2:J:656:ARG:HB2	2.01	0.61
2:L:1669:ALA:HB3	2:L:1679:LEU:HB2	1.82	0.61
2:L:942:MET:HE1	2:L:955:LEU:HB3	1.82	0.61
2:K:1616:VAL:HG11	2:K:1679:LEU:CD1	2.27	0.61
1:F:1100:VAL:HG21	1:F:1150:ILE:HD12	1.83	0.61
2:J:832:ILE:HA	2:J:868:LEU:HD11	1.83	0.61
1:C:905:LEU:HD22	1:C:911:LEU:HD21	1.83	0.61
2:G:791:TYR:HA	2:G:796:TRP:HD1	1.64	0.61
2:G:276:LEU:HD12	2:G:298:ALA:O	2.00	0.61
1:B:1094:LYS:HB3	1:B:1154:LEU:HB2	1.83	0.61
2:I:250:PHE:HB2	2:I:251:PRO:HD3	1.81	0.61
2:I:382:LEU:HB3	2:I:499:VAL:HB	1.82	0.61
2:K:2005:PHE:HB3	2:K:2010:LEU:HD11	1.83	0.61
1:B:22:PHE:HE1	2:H:1867:MET:HG3	1.66	0.61
2:H:270:ARG:HG3	2:H:274:GLU:OE1	1.99	0.61
2:I:789:TYR:HB3	2:I:790:PRO:HD3	1.82	0.61
2:H:1807:GLN:HB2	2:H:1808:PRO:HD3	1.80	0.61
1:C:1068:TYR:O	1:C:1072:ILE:HG13	2.01	0.61
2:I:365:ILE:HG23	2:I:378:ILE:HG22	1.83	0.61
2:G:1309:PHE:CE2	2:G:1360:PRO:HA	2.36	0.61
1:B:427:ARG:HH11	1:B:492:ILE:HG12	1.65	0.61
1:B:1148:LEU:HD21	1:D:1150:ILE:HG12	1.83	0.61
2:J:162:ALA:HA	2:J:167:VAL:HG22	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1046:SER:O	2:H:1049:GLN:HG3	2.01	0.61
1:B:1670:HIS:CE1	2:H:1009:ASN:ND2	2.69	0.61
2:G:1180:VAL:HG12	2:G:1188:GLN:H	1.66	0.61
2:J:1637:VAL:CG1	2:J:1679:LEU:HD22	2.31	0.61
2:I:1405:ILE:HA	2:I:1445:THR:OG1	1.99	0.61
2:J:290:VAL:HG22	2:J:490:LEU:HD13	1.81	0.61
1:D:1218:VAL:HG13	1:D:1301:VAL:HG13	1.83	0.61
2:I:2021:LEU:O	2:I:2025:ILE:HG13	2.01	0.61
2:H:22:ARG:O	2:H:37:VAL:HG23	2.01	0.61
2:J:1579:ASN:O	2:J:1583:VAL:HG23	1.99	0.61
2:K:529:ASN:HD22	2:K:552:VAL:CG2	2.14	0.61
2:H:410:ALA:HB1	2:H:414:LEU:HD12	1.82	0.61
1:A:1524:GLY:HA2	1:A:1531:ASP:OD1	2.01	0.61
1:B:1431:GLN:OE1	1:D:1431:GLN:HG2	2.01	0.61
2:H:875:PHE:CD1	2:H:905:LYS:HD3	2.35	0.61
2:I:57:PRO:HG2	2:I:68:GLU:HG3	1.83	0.61
1:C:575:ARG:O	1:C:579:MET:HG3	2.01	0.61
1:D:1448:ALA:HA	1:D:1451:LYS:CE	2.29	0.60
2:J:298:ALA:CB	2:J:304:PHE:HA	2.31	0.60
2:I:2036:ILE:HG22	2:I:2037:GLY:H	1.65	0.60
2:G:750:GLY:O	2:G:865:ILE:HA	2.01	0.60
2:L:1189:THR:O	2:L:1191:PRO:HD3	2.01	0.60
1:A:570:TYR:HD2	1:A:574:ILE:HD11	1.65	0.60
2:I:1370:LEU:HA	2:I:1435:TYR:HE2	1.65	0.60
2:G:1115:TYR:HB3	2:G:1267:PRO:HB3	1.83	0.60
2:L:796:TRP:CH2	2:L:805:MET:HE1	2.35	0.60
2:G:1700:GLN:HA	2:G:1704:MET:CE	2.31	0.60
1:E:486:VAL:CG1	1:E:647:GLY:HA3	2.29	0.60
2:H:1318:ALA:HA	2:H:1391:VAL:CG2	2.31	0.60
2:H:35:PHE:CE1	2:H:108:GLU:HG3	2.36	0.60
2:G:1455:GLN:HB2	2:G:1551:ILE:CD1	2.31	0.60
2:J:410:ALA:HB1	2:J:414:LEU:HD12	1.83	0.60
1:D:620:LYS:HA	1:D:625:ASN:O	2.00	0.60
2:L:94:ALA:HB1	2:L:97:THR:OG1	2.01	0.60
1:B:1113:LYS:HG3	1:B:1138:TYR:CE2	2.36	0.60
2:L:119:VAL:HG21	2:L:140:TYR:CD2	2.36	0.60
1:F:1443:LEU:HD11	1:F:1470:ARG:HD2	1.83	0.60
1:B:1451:LYS:HG2	1:B:1454:ARG:NH2	2.16	0.60
2:I:670:MET:HB2	2:I:674:ILE:HD12	1.83	0.60
2:L:158:LEU:HA	2:L:566:VAL:CG2	2.26	0.60
1:A:612:ILE:HD12	1:F:579:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:PRO:C	1:A:615:LEU:H	2.04	0.60
2:H:685:VAL:HG23	2:H:1186:ARG:HH12	1.66	0.60
2:H:1603:PRO:HG2	2:H:1642:MET:HE3	1.83	0.60
2:J:305:ALA:O	2:J:309:LYS:HD3	2.01	0.60
2:I:290:VAL:HG22	2:I:490:LEU:HD13	1.83	0.60
2:H:743:TRP:HZ2	2:H:757:PHE:HA	1.66	0.60
2:J:376:ARG:CB	2:J:394:PRO:HG2	2.30	0.60
2:K:119:VAL:HG21	2:K:140:TYR:CD2	2.37	0.60
2:J:1538:ASN:HB3	2:J:1541:ILE:HG22	1.84	0.60
1:B:683:THR:HB	1:B:714:PHE:HB3	1.83	0.60
1:B:1164:ILE:HD12	1:B:1355:GLN:HG3	1.83	0.60
2:J:781:GLY:HA2	2:J:1071:VAL:HG13	1.82	0.60
1:B:382:ILE:HD12	1:B:761:SER:HB3	1.83	0.60
2:L:162:ALA:HA	2:L:167:VAL:HG22	1.82	0.60
2:K:120:HIS:HD2	2:K:137:VAL:HG21	1.66	0.60
2:J:833:VAL:HG13	2:J:1077:LYS:HA	1.82	0.60
2:I:1067:LEU:HB2	4:I:2101:FMN:C7M	2.31	0.60
1:A:1330:GLU:OE2	1:A:1342:ARG:NH2	2.35	0.60
1:A:1702:ARG:NH1	1:A:1702:ARG:CG	2.45	0.60
2:L:930:THR:CG2	2:L:933:GLU:HG3	2.32	0.60
2:H:1048:TRP:CD2	2:H:1049:GLN:HG2	2.36	0.60
2:L:174:GLY:H	2:L:517:GLY:HA3	1.65	0.60
2:G:285:HIS:HD2	2:G:501:TRP:CE3	2.19	0.60
2:H:1612:THR:O	2:H:1616:VAL:HG12	2.01	0.60
2:L:1445:THR:HG23	2:L:1498:PHE:HB2	1.83	0.60
2:I:1700:GLN:HA	2:I:1704:MET:CE	2.30	0.60
2:I:1701:GLU:H	2:I:1704:MET:CE	2.15	0.60
2:H:376:ARG:CB	2:H:394:PRO:HG2	2.31	0.60
2:J:1991:ARG:HG3	2:J:1996:ILE:HG12	1.83	0.60
2:J:2005:PHE:HB3	2:J:2010:LEU:HD11	1.84	0.60
2:I:152:LYS:HB2	2:I:154:TYR:CE1	2.36	0.60
1:D:41:THR:HA	2:J:1689:VAL:HB	1.83	0.60
2:J:918:ASN:HB3	2:J:924:VAL:CG2	2.30	0.60
2:I:1804:GLN:HB3	2:I:1861:PHE:CE1	2.36	0.60
2:K:1094:HIS:O	2:K:1098:LEU:HB2	2.01	0.60
1:E:983:GLN:HB3	1:E:1418:ILE:HG21	1.81	0.60
2:L:573:VAL:HG22	2:L:804:PRO:HB2	1.83	0.60
2:I:197:VAL:HG12	2:I:201:ILE:HG13	1.82	0.60
2:I:580:LEU:HD11	2:I:1098:LEU:HB3	1.84	0.60
2:H:902:ILE:O	2:H:906:LEU:HB2	2.02	0.60
2:L:875:PHE:CD1	2:L:905:LYS:HD3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:655:ALA:HB3	1:F:680:VAL:HG12	1.81	0.60
2:J:94:ALA:HB1	2:J:97:THR:OG1	2.02	0.60
2:I:1515:LEU:O	2:I:1523:ILE:HD12	2.01	0.60
2:H:447:ALA:O	2:H:451:ILE:HG13	2.01	0.60
1:C:1446:GLU:O	1:C:1450:ILE:HG13	2.01	0.60
2:H:209:GLN:O	2:H:213:ARG:HG3	2.01	0.60
2:L:396:ILE:H	2:L:396:ILE:HD12	1.66	0.60
2:L:170:TYR:CZ	2:L:507:PHE:HB3	2.35	0.60
2:H:1220:ARG:HA	2:H:1229:VAL:O	2.00	0.60
1:C:552:ILE:HG12	1:D:552:ILE:HD11	1.83	0.60
2:L:351:LEU:HD22	2:L:352:SER:N	2.16	0.60
1:F:427:ARG:NH1	1:F:492:ILE:HG12	2.17	0.60
2:G:2054:TYR:HA	2:G:2057:GLU:OE1	2.02	0.60
1:F:1260:ALA:O	1:F:1264:MET:HG3	2.00	0.60
2:I:781:GLY:HA2	2:I:1071:VAL:HG13	1.82	0.60
2:H:1897:GLU:HG2	2:H:1901:GLN:HE21	1.66	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:CD2	2.36	0.60
1:B:907:PHE:O	1:B:909:PRO:HD3	2.02	0.60
2:J:1481:ILE:HD12	2:J:1515:LEU:HD23	1.83	0.60
1:E:339:GLN:O	1:E:343:ILE:HG13	2.01	0.60
2:K:170:TYR:CZ	2:K:507:PHE:HB3	2.36	0.60
2:K:670:MET:HB2	2:K:674:ILE:HD12	1.83	0.60
2:J:1350:ILE:O	2:J:1354:TRP:HB2	2.02	0.60
2:I:285:HIS:HD2	2:I:501:TRP:CE3	2.19	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:CD1	2.31	0.60
1:E:570:TYR:HD2	1:E:574:ILE:HD11	1.66	0.60
2:H:285:HIS:HD2	2:H:501:TRP:CE3	2.20	0.60
2:G:467:ILE:HG23	2:G:468:PRO:HD2	1.83	0.60
1:F:11:TYR:O	1:F:15:VAL:HG23	2.02	0.60
2:L:1094:HIS:O	2:L:1098:LEU:HB2	2.02	0.60
2:L:549:ASN:ND2	2:L:551:GLU:H	1.99	0.60
2:G:1922:VAL:HB	2:G:1925:MET:HB2	1.84	0.60
2:K:261:TYR:CD1	2:K:295:ILE:HG12	2.36	0.60
2:G:186:LEU:CD2	2:G:256:VAL:HG22	2.32	0.60
1:D:1267:LEU:HD11	1:D:1303:LEU:HD12	1.82	0.60
1:F:1480:ARG:O	1:F:1484:GLU:HG3	2.01	0.60
2:L:1593:SER:OG	2:L:1596:PHE:HB2	2.01	0.60
1:E:1421:ARG:HD2	1:E:1489:PHE:O	2.01	0.60
2:K:882:LYS:HB3	2:K:898:ARG:HH12	1.65	0.60
1:D:1095:GLN:O	1:D:1096:LEU:HD23	2.00	0.60
2:J:1564:SER:HB2	2:J:1653:LEU:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:557:ARG:NH1	1:E:557:ARG:CG	2.55	0.60
2:L:1637:VAL:HG11	2:L:1679:LEU:CD1	2.28	0.60
2:K:174:GLY:H	2:K:517:GLY:HA3	1.67	0.60
2:J:917:ARG:HG2	2:J:937:ARG:NH1	2.16	0.60
2:H:501:TRP:CZ2	2:H:528:THR:HG21	2.37	0.60
2:J:930:THR:HA	2:J:1007:LEU:HA	1.83	0.60
2:K:1374:VAL:CG2	2:K:1436:ARG:HE	2.15	0.60
2:K:1061:VAL:CG1	2:K:1066:ILE:HD11	2.31	0.60
1:B:987:MET:O	1:B:1490:GLY:HA3	2.00	0.60
2:L:2005:PHE:HB3	2:L:2010:LEU:HD11	1.83	0.60
2:G:918:ASN:HB3	2:G:924:VAL:CG2	2.31	0.60
1:E:22:PHE:HE2	2:K:2017:PHE:CG	2.20	0.60
2:L:1092:ASN:HA	2:L:1095:ILE:HG12	1.82	0.60
2:H:1171:TRP:CZ3	2:H:1236:LEU:HB2	2.37	0.60
2:J:193:TYR:CD1	2:J:263:ILE:HD13	2.37	0.60
2:I:1944:ASN:HA	2:I:1993:PHE:HD2	1.66	0.60
2:J:209:GLN:O	2:J:213:ARG:HG3	2.01	0.60
2:I:1564:SER:HB2	2:I:1653:LEU:H	1.67	0.60
2:G:348:THR:HB	2:G:349:PRO:CD	2.31	0.60
1:E:636:TYR:CZ	1:E:640:LEU:HD22	2.36	0.60
2:G:209:GLN:O	2:G:213:ARG:HG3	2.02	0.60
2:K:1266:HIS:NE2	2:K:1275:ARG:HD2	2.17	0.60
2:I:855:ILE:HD13	2:I:856:THR:N	2.17	0.60
2:H:846:THR:HG22	2:H:856:THR:N	2.17	0.60
2:L:440:HIS:HD2	2:L:497:ASP:O	1.84	0.60
2:H:917:ARG:HD2	2:H:917:ARG:N	2.16	0.60
2:J:174:GLY:H	2:J:517:GLY:HA3	1.66	0.60
1:A:633:THR:HG22	1:A:637:LEU:HD12	1.83	0.60
2:I:685:VAL:HG23	2:I:1186:ARG:HH12	1.67	0.60
2:J:1189:THR:O	2:J:1191:PRO:HD3	2.02	0.60
1:F:612:ILE:HG23	1:F:628:TYR:CD2	2.37	0.60
1:E:673:LEU:O	1:E:678:ALA:HB3	2.00	0.60
2:J:1090:ILE:O	2:J:1094:HIS:CD2	2.55	0.60
2:J:914:TRP:HE1	2:J:916:GLY:HA3	1.64	0.60
1:D:524:LYS:O	1:D:528:GLU:HG3	2.01	0.60
2:I:1721:ARG:HH21	2:I:1853:ILE:HD12	1.66	0.60
2:G:1370:LEU:HA	2:G:1435:TYR:HE2	1.66	0.60
1:C:1425:LEU:HD21	1:C:1429:ARG:NH2	2.16	0.60
2:G:832:ILE:HA	2:G:868:LEU:HD11	1.84	0.60
2:L:24:LEU:HD12	2:L:37:VAL:HG21	1.82	0.60
2:G:1171:TRP:CZ3	2:G:1236:LEU:HB2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1515:LEU:O	2:J:1523:ILE:HD12	2.01	0.60
1:E:935:GLU:HG3	2:K:1466:VAL:HG11	1.84	0.60
2:I:1593:SER:OG	2:I:1596:PHE:HB2	2.02	0.60
2:J:1944:ASN:HA	2:J:1993:PHE:HD2	1.67	0.60
2:G:170:TYR:CE2	2:G:507:PHE:HB3	2.37	0.60
1:C:1323:ALA:HB1	1:C:1351:PHE:HE2	1.67	0.60
2:K:1207:THR:O	2:K:1215:THR:HA	2.01	0.60
2:L:102:LEU:O	2:L:106:LEU:HG	2.02	0.60
1:D:1490:GLY:O	1:D:1509:THR:HB	2.02	0.60
1:F:853:MET:HG2	1:F:856:ASN:HD22	1.65	0.60
2:H:57:PRO:HG2	2:H:68:GLU:HG3	1.83	0.60
2:L:1515:LEU:O	2:L:1523:ILE:HD12	2.02	0.60
2:I:396:ILE:H	2:I:396:ILE:HD12	1.66	0.60
2:K:380:ILE:O	2:K:380:ILE:HG13	2.02	0.60
1:C:1113:LYS:HG3	1:C:1138:TYR:CE2	2.35	0.60
1:F:716:GLN:HB3	1:F:769:ILE:HG23	1.83	0.60
2:J:272:PRO:O	2:J:276:LEU:HB2	2.01	0.60
2:J:846:THR:HG22	2:J:856:THR:N	2.16	0.60
2:G:930:THR:HA	2:G:1007:LEU:HA	1.83	0.60
2:L:172:ILE:HG22	2:L:514:VAL:O	2.02	0.60
1:D:22:PHE:HE2	2:J:2017:PHE:CG	2.20	0.60
2:I:35:PHE:CE1	2:I:108:GLU:HG3	2.37	0.60
2:K:1232:VAL:CG1	2:K:1246:LEU:HD23	2.32	0.60
2:G:290:VAL:HG22	2:G:490:LEU:HD13	1.83	0.60
1:C:1005:TRP:CD1	1:C:1561:LEU:HD22	2.37	0.60
2:L:1873:ARG:NH1	2:L:2002:ASP:HB3	2.17	0.60
1:D:1363:MET:HE1	1:D:1373:VAL:CG2	2.32	0.60
2:I:1421:ARG:O	2:I:1421:ARG:HG2	2.02	0.60
2:H:788:THR:HG22	2:H:1094:HIS:CE1	2.37	0.60
2:K:1918:VAL:HG13	2:K:2006:HIS:HB2	1.84	0.60
1:C:502:ALA:HA	1:C:929:ARG:HD3	1.83	0.60
1:D:1032:MET:HE2	1:D:1165:PRO:HB3	1.84	0.60
2:L:1846:ALA:HB3	2:L:1847:LEU:HD12	1.84	0.60
2:H:549:ASN:ND2	2:H:551:GLU:H	1.98	0.60
2:J:197:VAL:HG12	2:J:201:ILE:HG13	1.84	0.60
1:D:1480:ARG:O	1:D:1484:GLU:HG3	2.01	0.60
2:G:1403:ALA:HB2	2:G:1447:GLN:HG3	1.82	0.60
2:L:833:VAL:HG13	2:L:1077:LYS:HA	1.84	0.60
1:E:1120:LYS:HD3	1:E:1129:ILE:HG12	1.83	0.60
2:K:95:HIS:HB2	2:K:96:PRO:HD3	1.84	0.60
2:K:410:ALA:HB1	2:K:414:LEU:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1404:VAL:HG22	2:L:1413:VAL:HG22	1.83	0.60
1:A:1113:LYS:HG3	1:A:1138:TYR:CE2	2.37	0.60
2:L:1317:ASN:HB3	2:L:1320:ALA:HB3	1.84	0.60
2:H:778:ALA:HB2	2:H:807:PHE:CD2	2.37	0.60
1:C:1470:ARG:O	1:C:1474:ILE:HG13	2.01	0.60
2:K:846:THR:HG22	2:K:856:THR:N	2.17	0.60
2:L:290:VAL:HG22	2:L:490:LEU:HD13	1.83	0.60
2:L:752:HIS:NE2	2:L:856:THR:CG2	2.65	0.60
2:J:623:ASN:OD1	2:J:653:PRO:HD3	2.02	0.60
2:H:174:GLY:H	2:H:517:GLY:HA3	1.67	0.60
2:H:750:GLY:O	2:H:865:ILE:HA	2.00	0.60
2:H:663:ILE:HG21	3:H:2102:NAP:H1D	1.82	0.60
1:D:40:ARG:NH2	1:D:72:THR:HG22	2.17	0.60
1:A:673:LEU:O	1:A:678:ALA:HB3	2.02	0.60
2:K:606:ALA:HB2	2:K:811:MET:HG3	1.83	0.60
2:L:857:VAL:HG13	2:L:876:TRP:HE1	1.65	0.60
2:G:298:ALA:CB	2:G:304:PHE:HA	2.32	0.60
2:J:1795:SER:HB3	2:J:1799:LEU:HD12	1.81	0.60
2:H:272:PRO:O	2:H:276:LEU:HB2	2.01	0.60
2:J:964:ARG:O	2:J:967:GLU:HB2	2.00	0.60
2:G:35:PHE:CE1	2:G:108:GLU:HG3	2.37	0.60
2:I:580:LEU:HD12	2:I:1103:TYR:CE2	2.36	0.60
2:K:1564:SER:HB2	2:K:1653:LEU:H	1.67	0.60
1:B:11:TYR:O	1:B:15:VAL:HG23	2.02	0.60
1:B:1224:SER:HB2	1:B:1307:PHE:O	2.01	0.60
2:G:655:GLY:HA3	2:G:1272:ALA:CB	2.32	0.60
2:I:1722:ALA:CB	2:I:1812:LEU:HD21	2.32	0.60
2:I:380:ILE:HG13	2:I:380:ILE:O	2.02	0.60
1:C:399:TYR:OH	1:C:692:THR:HG23	2.01	0.60
2:I:613:VAL:HG23	2:I:635:TYR:CE1	2.37	0.60
2:I:661:ASN:HD21	4:I:2101:FMN:HN3	1.48	0.60
2:I:854:VAL:HG21	2:I:1070:PRO:CA	2.31	0.60
2:K:855:ILE:HB	2:K:869:ALA:HB2	1.84	0.60
1:E:1342:ARG:HB2	1:E:1345:SER:HB2	1.84	0.60
2:J:298:ALA:HB2	2:J:304:PHE:HA	1.83	0.60
2:J:467:ILE:HG23	2:J:468:PRO:HD2	1.83	0.60
2:H:2036:ILE:HG22	2:H:2037:GLY:H	1.65	0.60
1:E:1100:VAL:HG21	1:E:1150:ILE:HD12	1.84	0.60
2:H:824:THR:HB	2:H:829:LYS:HE3	1.83	0.60
2:G:1669:ALA:HB3	2:G:1679:LEU:HB2	1.84	0.60
2:J:117:ASN:OD1	2:J:561:ARG:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1081:ILE:HG13	1:C:1159:LEU:O	2.00	0.60
2:G:584:SER:HB3	2:G:1114:GLU:O	2.01	0.60
2:I:2019:SER:HA	2:I:2022:LEU:HD12	1.84	0.60
1:D:1094:LYS:HB3	1:D:1154:LEU:HB2	1.84	0.60
2:J:794:GLY:O	2:J:804:PRO:HA	2.02	0.60
2:I:1090:ILE:O	2:I:1094:HIS:HD2	1.84	0.60
2:G:129:ILE:HD13	2:G:132:LYS:HE3	1.83	0.60
1:A:1168:TRP:NE1	1:A:1173:TYR:HE1	1.99	0.60
1:A:862:GLY:O	1:A:865:LYS:HB2	2.02	0.60
2:G:1564:SER:HB2	2:G:1653:LEU:H	1.67	0.60
2:G:1554:PRO:HG3	2:G:1659:ILE:HD11	1.84	0.60
1:D:1532:LYS:HE2	1:D:1598:VAL:HG11	1.84	0.60
2:L:1232:VAL:CG1	2:L:1246:LEU:HD23	2.31	0.59
1:D:1451:LYS:HG2	1:D:1454:ARG:NH2	2.16	0.59
2:K:942:MET:HE2	2:K:955:LEU:HD13	1.82	0.59
2:I:374:GLU:CA	2:I:377:HIS:HD2	2.13	0.59
2:L:1612:THR:O	2:L:1616:VAL:HG12	2.02	0.59
2:I:2036:ILE:CG2	2:I:2037:GLY:N	2.64	0.59
2:J:285:HIS:HD2	2:J:501:TRP:CE3	2.19	0.59
2:L:825:SER:HB2	2:L:1053:ILE:HG13	1.83	0.59
1:C:1363:MET:HE1	1:C:1373:VAL:CG2	2.31	0.59
1:E:1307:PHE:HB3	1:E:1357:CYS:CB	2.32	0.59
2:H:1094:HIS:O	2:H:1098:LEU:HB2	2.02	0.59
2:K:1421:ARG:HG2	2:K:1421:ARG:O	2.01	0.59
2:L:1171:TRP:CE3	2:L:1236:LEU:HD22	2.37	0.59
2:L:596:ARG:HH22	2:L:1113:ILE:CD1	2.15	0.59
2:G:1393:ASP:HB3	2:G:1395:LEU:HD21	1.84	0.59
2:G:170:TYR:CZ	2:G:507:PHE:HB3	2.37	0.59
2:L:882:LYS:HB3	2:L:898:ARG:HH12	1.67	0.59
2:J:1593:SER:OG	2:J:1596:PHE:HB2	2.02	0.59
2:K:1674:THR:HB	2:K:1676:GLU:HG3	1.84	0.59
1:B:1446:GLU:O	1:B:1450:ILE:HG13	2.01	0.59
2:I:347:PRO:HA	2:I:432:PHE:CD1	2.37	0.59
2:K:204:ILE:HG23	2:K:312:VAL:HG11	1.83	0.59
2:K:1515:LEU:O	2:K:1523:ILE:HD12	2.01	0.59
1:E:1081:ILE:HA	1:E:1163:GLN:HE22	1.67	0.59
2:L:410:ALA:HB1	2:L:414:LEU:HD12	1.83	0.59
1:E:1095:GLN:O	1:E:1096:LEU:HD23	2.02	0.59
2:K:752:HIS:NE2	2:K:856:THR:HG22	2.17	0.59
1:F:1330:GLU:HG2	1:F:1333:ARG:NH1	2.17	0.59
2:J:1375:HIS:HE1	2:J:1610:MET:SD	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:501:TRP:HE1	2:K:528:THR:CG2	2.09	0.59
2:G:938:MET:HE1	2:G:959:THR:HA	1.82	0.59
2:I:22:ARG:O	2:I:37:VAL:HG23	2.02	0.59
2:G:440:HIS:HD2	2:G:497:ASP:O	1.85	0.59
1:B:1032:MET:HE3	1:B:1165:PRO:HB3	1.83	0.59
1:A:1674:ILE:HD12	2:G:1010:ALA:HB3	1.84	0.59
2:K:57:PRO:CG	2:K:68:GLU:HG3	2.32	0.59
2:H:1305:LEU:HD11	2:H:1365:LYS:HD2	1.83	0.59
1:C:15:VAL:HG11	2:I:2022:LEU:HD21	1.84	0.59
2:K:350:MET:HG3	2:K:435:ILE:HB	1.83	0.59
2:L:1722:ALA:CB	2:L:1812:LEU:HD21	2.32	0.59
2:I:87:VAL:HG22	2:I:98:ASN:HB3	1.85	0.59
2:J:902:ILE:O	2:J:906:LEU:HB2	2.02	0.59
2:G:327:PRO:HD2	2:H:1338:ARG:NH2	2.17	0.59
1:A:683:THR:HB	1:A:714:PHE:HB3	1.84	0.59
2:J:1207:THR:O	2:J:1215:THR:HA	2.01	0.59
2:K:731:ALA:HA	2:K:739:ILE:HD13	1.84	0.59
2:J:1966:ARG:O	2:J:1970:VAL:HG23	2.01	0.59
1:F:943:VAL:CG2	2:L:1539:PRO:HG3	2.32	0.59
1:A:571:LYS:O	1:A:575:ARG:HG2	2.02	0.59
2:K:1818:PHE:HE2	2:K:1822:ARG:HH12	1.49	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:HD1	1.68	0.59
1:A:1443:LEU:HD11	1:A:1470:ARG:HD2	1.84	0.59
1:B:557:ARG:NH1	1:E:558:LEU:HA	2.17	0.59
1:B:1491:ASN:H	1:B:1491:ASN:HD22	1.50	0.59
1:A:998:GLY:HA3	1:A:1361:VAL:CG1	2.27	0.59
2:K:472:THR:H	2:K:493:MET:HE3	1.66	0.59
1:F:612:ILE:CG2	1:F:628:TYR:CD2	2.86	0.59
1:E:1686:PRO:HB2	1:E:1713:PHE:CD1	2.37	0.59
2:J:1092:ASN:HA	2:J:1095:ILE:HG12	1.83	0.59
2:H:747:ARG:NH1	2:H:780:SER:HB3	2.17	0.59
1:D:11:TYR:O	1:D:15:VAL:HG23	2.02	0.59
2:K:24:LEU:HD12	2:K:37:VAL:HG21	1.84	0.59
2:G:24:LEU:HD12	2:G:37:VAL:HG21	1.83	0.59
2:I:1517:LEU:HG	2:I:1523:ILE:HD11	1.84	0.59
2:G:1305:LEU:HD12	2:G:1305:LEU:H	1.67	0.59
1:F:569:LEU:O	1:F:573:VAL:HG23	2.02	0.59
2:L:768:ILE:O	2:L:774:ILE:HD12	2.01	0.59
2:I:1805:PHE:O	2:I:1808:PRO:HD2	2.03	0.59
1:B:30:GLU:HB2	2:H:2045:ALA:HB1	1.83	0.59
1:B:42:GLU:OE1	2:H:1688:PRO:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1966:ARG:O	2:G:1970:VAL:HG23	2.01	0.59
1:B:853:MET:HG2	1:B:856:ASN:HD22	1.67	0.59
2:K:685:VAL:CG2	2:K:1186:ARG:HH12	2.04	0.59
2:L:937:ARG:NE	2:L:941:LEU:HD11	2.17	0.59
1:B:989:ASN:H	1:B:1491:ASN:ND2	1.89	0.59
2:J:935:VAL:HG11	2:J:997:LEU:HD21	1.85	0.59
1:A:532:ILE:CG2	1:A:907:PHE:CB	2.80	0.59
2:J:1061:VAL:CG1	2:J:1066:ILE:HD11	2.32	0.59
1:D:22:PHE:HE1	2:J:1867:MET:HG3	1.67	0.59
2:I:1991:ARG:HG3	2:I:1996:ILE:HG12	1.85	0.59
1:B:1269:SER:O	1:D:1386:THR:HB	2.02	0.59
2:G:606:ALA:HB2	2:G:811:MET:HG3	1.84	0.59
2:G:741:LEU:HG	2:G:741:LEU:O	2.02	0.59
1:D:552:ILE:HG21	1:D:566:PHE:CZ	2.38	0.59
2:H:94:ALA:HB1	2:H:97:THR:OG1	2.02	0.59
1:F:1095:GLN:O	1:F:1096:LEU:HD23	2.03	0.59
1:C:1234:GLY:HA2	1:C:1238:ASP:HB2	1.84	0.59
2:J:1400:GLN:HG3	2:J:1448:ARG:HH12	1.68	0.59
2:K:70:SER:HB2	2:K:74:GLU:OE2	2.01	0.59
1:E:42:GLU:OE1	2:K:1688:PRO:HB3	2.02	0.59
1:E:862:GLY:O	1:E:865:LYS:HB2	2.01	0.59
2:J:348:THR:HB	2:J:349:PRO:CD	2.32	0.59
1:A:636:TYR:CD1	1:A:888:ILE:HD11	2.37	0.59
2:L:349:PRO:O	2:L:392:THR:HG22	2.02	0.59
2:J:661:ASN:HD21	4:J:2101:FMN:HN3	1.50	0.59
2:J:752:HIS:NE2	2:J:856:THR:CG2	2.66	0.59
2:I:917:ARG:HD2	2:I:917:ARG:N	2.17	0.59
2:H:2036:ILE:CG2	2:H:2037:GLY:N	2.64	0.59
2:G:663:ILE:HG21	3:G:2102:NAP:H1D	1.84	0.59
2:I:686:PRO:HB3	2:I:1187:PHE:CE1	2.36	0.59
1:F:434:ILE:HD11	1:F:490:VAL:HG21	1.83	0.59
2:G:1603:PRO:HG2	2:G:1642:MET:HE3	1.83	0.59
2:L:1374:VAL:CG2	2:L:1436:ARG:HE	2.16	0.59
2:L:779:GLY:HA3	2:L:811:MET:HE3	1.85	0.59
2:H:272:PRO:HD3	2:H:301:TRP:CE2	2.37	0.59
2:L:1701:GLU:H	2:L:1704:MET:CE	2.15	0.59
1:E:1581:LEU:HD23	1:E:1617:ILE:HG12	1.84	0.59
1:E:470:GLY:O	1:E:474:ILE:HG13	2.02	0.59
1:B:570:TYR:CE1	1:B:574:ILE:HD11	2.38	0.59
1:C:1307:PHE:HB3	1:C:1357:CYS:CB	2.32	0.59
2:G:779:GLY:HA3	2:G:811:MET:HE3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1455:GLN:HB2	2:J:1551:ILE:CD1	2.32	0.59
1:B:1323:ALA:HB1	1:B:1351:PHE:HE2	1.68	0.59
2:H:706:ILE:HG22	2:H:707:GLN:HG2	1.84	0.59
1:A:1547:ARG:HG2	1:A:1604:TYR:CD1	2.38	0.59
2:I:1266:HIS:NE2	2:I:1275:ARG:HD2	2.17	0.59
2:L:962:PHE:O	2:L:966:VAL:HG23	2.03	0.59
1:D:617:LEU:N	1:D:617:LEU:HD23	2.17	0.59
1:B:947:ASP:O	1:B:951:LEU:HG	2.02	0.59
2:G:95:HIS:HB2	2:G:96:PRO:HD3	1.84	0.59
2:H:228:LEU:O	2:H:232:HIS:HD2	1.86	0.59
1:C:766:ALA:HA	1:C:769:ILE:HD12	1.83	0.59
2:H:374:GLU:CA	2:H:377:HIS:CD2	2.77	0.59
2:L:293:ALA:HA	2:L:469:VAL:HG21	1.84	0.59
2:L:613:VAL:CG1	2:L:614:PRO:HD3	2.32	0.59
1:B:1700:GLN:O	1:B:1702:ARG:HG3	2.02	0.59
1:E:427:ARG:HD2	1:E:490:VAL:HG12	1.85	0.59
2:I:1637:VAL:CG1	2:I:1679:LEU:HD22	2.33	0.59
2:K:747:ARG:NH1	2:K:780:SER:HB3	2.17	0.59
2:J:1404:VAL:O	2:J:1445:THR:HA	2.02	0.59
2:H:1700:GLN:HA	2:H:1704:MET:CE	2.30	0.59
2:J:788:THR:HG22	2:J:1094:HIS:CE1	2.37	0.59
1:A:1154:LEU:HD21	1:E:1118:GLU:OE2	2.02	0.59
2:K:580:LEU:HD12	2:K:1103:TYR:CE2	2.37	0.59
1:E:1183:VAL:HG13	1:E:1252:GLU:OE1	2.02	0.59
2:G:186:LEU:HG	2:G:256:VAL:HG22	1.84	0.59
1:B:696:GLN:HG3	1:B:697:GLY:N	2.16	0.59
2:I:129:ILE:HD13	2:I:132:LYS:HE3	1.84	0.59
2:J:1851:MET:HE2	2:J:1855:SER:HB3	1.85	0.59
1:C:960:ARG:HH12	2:I:968:GLU:CD	2.05	0.59
2:H:1377:SER:HB3	2:H:1432:GLN:HB2	1.84	0.59
1:A:716:GLN:HB3	1:A:769:ILE:HG23	1.85	0.59
2:I:1620:VAL:O	2:I:1624:ALA:HB3	2.03	0.59
2:H:1740:ASN:O	2:H:1742:PRO:HD3	2.01	0.59
1:A:1207:TYR:CZ	1:A:1682:LYS:HD2	2.37	0.59
1:A:947:ASP:O	1:A:951:LEU:HG	2.01	0.59
1:B:1120:LYS:HD3	1:B:1129:ILE:HG12	1.84	0.59
2:L:1067:LEU:HB2	4:L:2101:FMN:HM71	1.85	0.59
2:L:752:HIS:CE1	2:L:847:TYR:CE2	2.80	0.59
2:J:635:TYR:CB	2:J:641:MET:HG3	2.32	0.59
2:J:2036:ILE:HG22	2:J:2037:GLY:H	1.67	0.59
2:K:351:LEU:HD22	2:K:352:SER:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:467:ILE:HG23	2:K:468:PRO:HD2	1.84	0.59
2:J:942:MET:HE1	2:J:955:LEU:HB3	1.84	0.59
2:H:327:PRO:CD	2:I:1338:ARG:NH2	2.62	0.59
2:H:298:ALA:CB	2:H:304:PHE:HA	2.32	0.59
1:B:1186:VAL:HG23	1:B:1309:ASP:HB2	1.85	0.59
2:L:1090:ILE:O	2:L:1094:HIS:HD2	1.84	0.59
2:H:186:LEU:CD2	2:H:256:VAL:HG22	2.33	0.59
2:I:788:THR:HG22	2:I:1094:HIS:CE1	2.37	0.59
2:L:1305:LEU:HD12	2:L:1305:LEU:H	1.65	0.59
1:F:1446:GLU:O	1:F:1450:ILE:HG13	2.03	0.59
1:D:1483:ALA:HA	1:D:1486:GLN:HE21	1.68	0.59
1:B:1510:TRP:CZ3	1:B:1642:LEU:HA	2.38	0.59
1:D:1086:PHE:CE2	1:D:1310:PHE:HD2	2.20	0.59
1:A:1095:GLN:O	1:A:1096:LEU:HD23	2.02	0.59
2:H:1266:HIS:NE2	2:H:1275:ARG:HD2	2.18	0.59
1:F:862:GLY:O	1:F:865:LYS:HB2	2.02	0.59
2:J:350:MET:HG3	2:J:435:ILE:HB	1.85	0.59
1:F:849:GLY:HA3	1:F:873:GLN:CG	2.33	0.59
2:K:1933:LEU:O	2:K:1989:LEU:HD21	2.03	0.59
2:J:380:ILE:HG13	2:J:380:ILE:O	2.03	0.59
2:H:70:SER:HB2	2:H:74:GLU:OE2	2.02	0.59
2:I:420:PRO:HG3	2:I:847:TYR:CE1	2.38	0.59
1:D:1700:GLN:O	1:D:1702:ARG:HG3	2.02	0.59
1:A:427:ARG:NH1	1:A:427:ARG:CG	2.57	0.59
1:A:1079:ARG:NH1	1:A:1079:ARG:HG2	2.09	0.59
2:G:1007:LEU:N	2:G:1007:LEU:HD12	2.15	0.59
2:L:1454:MET:CE	2:L:1550:SER:HA	2.33	0.59
2:K:1454:MET:CE	2:K:1550:SER:HA	2.29	0.59
2:I:351:LEU:HD22	2:I:352:SER:N	2.18	0.59
2:L:1903:VAL:O	2:L:1907:ILE:HG13	2.03	0.59
2:L:1851:MET:HE2	2:L:1855:SER:HB3	1.85	0.59
1:A:767:HIS:CE1	1:F:767:HIS:HE1	2.20	0.59
2:H:1093:ASP:O	2:H:1097:PHE:HD1	1.85	0.59
2:L:580:LEU:HD11	2:L:1098:LEU:HB3	1.85	0.59
2:L:1099:LEU:HD12	2:L:1103:TYR:HB2	1.83	0.59
2:G:1551:ILE:HG22	2:G:1552:GLU:HG3	1.84	0.59
2:L:918:ASN:HB3	2:L:924:VAL:CG2	2.33	0.59
1:E:1505:GLY:O	1:E:1509:THR:HG23	2.03	0.59
2:G:1324:PHE:N	2:G:1583:VAL:HG11	2.18	0.59
2:I:298:ALA:CB	2:I:304:PHE:HA	2.33	0.59
2:K:1342:PHE:HE2	2:K:1391:VAL:CG2	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:170:TYR:CE2	2:K:507:PHE:HB3	2.37	0.59
2:G:1554:PRO:HA	2:G:1659:ILE:HG12	1.85	0.59
2:I:875:PHE:CD1	2:I:905:LYS:HD3	2.37	0.59
1:A:1446:GLU:O	1:A:1450:ILE:HG13	2.01	0.59
2:I:186:LEU:HG	2:I:256:VAL:HG22	1.85	0.59
2:G:57:PRO:HG2	2:G:68:GLU:HG3	1.83	0.59
2:L:1966:ARG:O	2:L:1970:VAL:HG23	2.02	0.59
2:G:699:ILE:H	2:G:699:ILE:HD12	1.67	0.59
2:I:752:HIS:NE2	2:I:856:THR:CG2	2.65	0.59
2:K:613:VAL:HG13	2:K:614:PRO:HD3	1.84	0.59
2:K:653:PRO:O	2:K:656:ARG:HB2	2.03	0.59
1:C:1504:ARG:NH1	1:C:1504:ARG:CG	2.41	0.59
2:G:612:THR:HG22	2:G:612:THR:O	2.03	0.59
2:J:1380:TYR:CD2	2:J:1429:VAL:HG22	2.37	0.59
1:C:427:ARG:NH1	1:C:492:ILE:HG23	2.10	0.59
2:L:501:TRP:HE1	2:L:528:THR:CG2	2.09	0.59
1:D:1672:GLY:HA3	1:D:1678:LEU:CD2	2.31	0.59
2:K:962:PHE:O	2:K:966:VAL:HG23	2.03	0.59
2:I:1007:LEU:CD1	2:I:1007:LEU:H	2.13	0.59
2:J:1881:TYR:CZ	2:J:2009:PHE:HE1	2.21	0.59
2:K:824:THR:HB	2:K:829:LYS:HE3	1.83	0.59
2:K:1991:ARG:HG3	2:K:1996:ILE:HG12	1.85	0.59
2:I:747:ARG:NH1	2:I:780:SER:HB3	2.18	0.59
1:B:1004:PRO:HD3	1:B:1572:TRP:CH2	2.38	0.59
2:H:794:GLY:O	2:H:804:PRO:HA	2.03	0.59
2:L:1120:ILE:HD13	2:L:1173:HIS:CE1	2.37	0.59
1:A:987:MET:O	1:A:1490:GLY:HA3	2.03	0.59
1:A:552:ILE:HG21	1:A:566:PHE:CZ	2.38	0.59
2:G:22:ARG:O	2:G:37:VAL:HG23	2.03	0.59
1:D:68:TYR:CD1	2:L:371:HIS:CD2	2.90	0.59
2:I:1481:ILE:HD12	2:I:1515:LEU:HD23	1.84	0.59
2:I:1807:GLN:HB2	2:I:1808:PRO:HD3	1.85	0.59
1:B:1510:TRP:HZ3	1:B:1642:LEU:HA	1.67	0.59
1:B:415:TYR:O	1:B:419:PHE:HD1	1.85	0.59
1:B:339:GLN:O	1:B:343:ILE:HG13	2.02	0.59
1:A:926:SER:O	1:A:930:GLN:HG2	2.02	0.59
1:E:1168:TRP:NE1	1:E:1173:TYR:HE1	2.01	0.59
1:C:883:LEU:HA	1:C:888:ILE:HD12	1.84	0.59
2:G:228:LEU:O	2:G:232:HIS:HD2	1.86	0.59
1:C:1223:GLY:HA3	1:C:1276:PRO:HD2	1.84	0.59
2:H:768:ILE:O	2:H:774:ILE:HD12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:849:GLY:HA3	1:A:873:GLN:CG	2.32	0.59
1:A:418:ILE:HA	1:A:462:THR:HB	1.84	0.59
2:I:1674:THR:HB	2:I:1676:GLU:HG3	1.85	0.59
1:B:1547:ARG:HG2	1:B:1604:TYR:CD1	2.37	0.59
2:I:752:HIS:CE1	2:I:847:TYR:CE2	2.79	0.59
2:G:167:VAL:CG2	2:G:169:ILE:HG13	2.32	0.59
2:K:635:TYR:CB	2:K:641:MET:HG3	2.33	0.59
2:L:472:THR:H	2:L:493:MET:HE3	1.66	0.59
2:G:623:ASN:OD1	2:G:653:PRO:HD3	2.03	0.59
2:H:1061:VAL:CG1	2:H:1066:ILE:HD11	2.33	0.59
2:H:663:ILE:H	2:H:663:ILE:CD1	2.15	0.59
2:K:372:LEU:HD11	2:K:397:SER:HB2	1.83	0.59
2:G:1009:ASN:O	2:G:1013:VAL:HG23	2.02	0.59
1:F:430:VAL:O	1:F:434:ILE:HG13	2.03	0.59
1:F:40:ARG:NH2	1:F:72:THR:HG22	2.18	0.59
2:J:590:VAL:HG23	2:J:1091:HIS:CD2	2.37	0.59
2:L:1899:ALA:O	2:L:1903:VAL:HG23	2.02	0.59
2:J:606:ALA:HB2	2:J:811:MET:HG3	1.84	0.59
2:H:1899:ALA:O	2:H:1903:VAL:HG23	2.03	0.59
1:E:957:THR:HG21	2:K:967:GLU:HB3	1.84	0.59
2:K:1721:ARG:HH21	2:K:1853:ILE:HD12	1.66	0.59
1:C:1269:SER:O	1:F:1386:THR:HB	2.02	0.59
2:H:1851:MET:HE2	2:H:1855:SER:HB3	1.84	0.59
1:D:755:GLU:HB2	1:D:757:ASP:HB2	1.84	0.59
1:D:503:ARG:HA	1:D:933:ILE:HD11	1.85	0.59
1:C:1484:GLU:OE1	1:F:1488:SER:HB3	2.03	0.59
1:A:883:LEU:HA	1:A:888:ILE:HD12	1.84	0.59
1:A:414:TYR:CE2	1:A:418:ILE:HD11	2.37	0.59
1:B:1691:ILE:HG22	1:B:1695:VAL:HG23	1.84	0.59
1:B:1703:VAL:HG11	1:B:1711:LEU:HB3	1.85	0.59
1:D:415:TYR:O	1:D:419:PHE:HD1	1.86	0.59
1:B:399:TYR:OH	1:B:692:THR:HG23	2.02	0.59
1:F:1207:TYR:CZ	1:F:1682:LYS:HD2	2.37	0.59
1:D:541:VAL:O	1:D:545:LEU:HG	2.03	0.59
1:A:1121:ARG:NH1	1:E:1153:ALA:O	2.36	0.59
2:G:70:SER:HB2	2:G:74:GLU:OE2	2.03	0.59
2:I:1844:LEU:HB3	2:I:1850:VAL:HG21	1.84	0.59
2:K:915:PHE:HB2	2:K:1030:PHE:CD1	2.38	0.59
1:E:1443:LEU:HD11	1:E:1470:ARG:HD2	1.85	0.58
2:G:846:THR:HG22	2:G:856:THR:N	2.18	0.58
2:I:1380:TYR:CD2	2:I:1429:VAL:HG22	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:930:THR:HA	2:I:1007:LEU:HA	1.85	0.58
2:J:942:MET:CE	2:J:955:LEU:HB3	2.32	0.58
1:C:905:LEU:HD23	1:C:908:ILE:HD12	1.85	0.58
2:G:462:ALA:HB2	2:G:481:LEU:HB2	1.85	0.58
1:F:1363:MET:HE1	1:F:1373:VAL:CG2	2.31	0.58
2:L:606:ALA:HB2	2:L:811:MET:HG3	1.83	0.58
1:D:1005:TRP:NE1	1:D:1561:LEU:CD2	2.65	0.58
2:J:1709:TYR:C	2:J:1709:TYR:HD2	2.06	0.58
2:L:1867:MET:O	2:L:2003:VAL:HG21	2.02	0.58
2:H:779:GLY:HA3	2:H:811:MET:HE3	1.85	0.58
2:I:743:TRP:HZ2	2:I:757:PHE:HA	1.68	0.58
2:K:1764:MET:HB3	2:K:1780:ILE:CD1	2.33	0.58
2:J:1750:GLY:O	2:J:1755:LYS:HE3	2.02	0.58
1:A:1307:PHE:HB3	1:A:1357:CYS:HB2	1.85	0.58
2:G:1350:ILE:O	2:G:1354:TRP:HB2	2.03	0.58
2:H:1370:LEU:HA	2:H:1435:TYR:HE2	1.68	0.58
2:G:1094:HIS:O	2:G:1098:LEU:HB2	2.03	0.58
2:L:580:LEU:HD12	2:L:1103:TYR:CE2	2.38	0.58
1:E:501:ASP:OD2	1:E:503:ARG:HB2	2.03	0.58
2:G:1318:ALA:HA	2:G:1391:VAL:CG2	2.33	0.58
2:J:1944:ASN:HA	2:J:1993:PHE:CD2	2.37	0.58
2:I:120:HIS:HD2	2:I:137:VAL:HG21	1.66	0.58
2:I:1880:ASN:HB3	2:I:1881:TYR:CD1	2.38	0.58
2:H:992:ALA:O	2:H:995:ARG:HB3	2.02	0.58
2:G:731:ALA:HA	2:G:739:ILE:HD13	1.85	0.58
1:B:620:LYS:HA	1:B:625:ASN:O	2.02	0.58
1:B:442:PRO:HD2	1:B:443:LEU:HD12	1.85	0.58
1:F:6:GLU:HA	2:L:2050:ILE:HD11	1.85	0.58
2:H:1309:PHE:CE2	2:H:1360:PRO:HA	2.38	0.58
1:B:1367:LEU:HD22	1:B:1371:MET:HG3	1.84	0.58
1:A:1401:LEU:HD22	1:E:1697:LEU:HD21	1.85	0.58
1:F:696:GLN:HG3	1:F:697:GLY:N	2.17	0.58
2:L:616:ASP:N	2:L:616:ASP:OD1	2.35	0.58
1:A:41:THR:HG21	2:G:1691:ALA:HB2	1.85	0.58
1:E:1446:GLU:O	1:E:1450:ILE:HG13	2.03	0.58
1:B:434:ILE:HD11	1:B:490:VAL:HG21	1.85	0.58
1:E:1330:GLU:HG2	1:E:1333:ARG:NH1	2.18	0.58
2:L:610:PRO:HD2	4:L:2101:FMN:C6	2.24	0.58
2:K:374:GLU:CA	2:K:377:HIS:HD2	2.13	0.58
2:L:1265:TYR:O	2:L:1267:PRO:HD3	2.03	0.58
2:K:917:ARG:HH11	2:K:917:ARG:HG2	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1612:THR:O	2:K:1616:VAL:HG12	2.03	0.58
2:K:1669:ALA:HB3	2:K:1679:LEU:HB2	1.84	0.58
2:L:876:TRP:C	2:L:876:TRP:CD1	2.77	0.58
1:D:1580:VAL:O	1:D:1617:ILE:HD11	2.02	0.58
2:J:1436:ARG:NH2	2:J:1602:LEU:CD1	2.67	0.58
2:G:1709:TYR:C	2:G:1709:TYR:HD2	2.06	0.58
2:I:1171:TRP:CZ3	2:I:1236:LEU:HB2	2.38	0.58
1:C:755:GLU:HB2	1:C:757:ASP:HB2	1.85	0.58
2:J:875:PHE:CD1	2:J:905:LYS:HD3	2.38	0.58
1:C:636:TYR:CZ	1:C:640:LEU:HD22	2.38	0.58
1:B:1703:VAL:HG22	1:B:1712:LYS:C	2.23	0.58
2:G:706:ILE:HG22	2:G:707:GLN:HG2	1.84	0.58
1:C:1120:LYS:HD3	1:C:1129:ILE:HG12	1.85	0.58
2:G:351:LEU:HD22	2:G:352:SER:N	2.17	0.58
2:G:1538:ASN:HB3	2:G:1541:ILE:HG22	1.85	0.58
1:E:1038:HIS:O	1:E:1048:SER:HA	2.03	0.58
2:L:952:ASP:OD1	2:L:953:PRO:HD2	2.04	0.58
2:J:1620:VAL:O	2:J:1624:ALA:HB3	2.03	0.58
1:E:1606:VAL:O	1:E:1608:PRO:HD3	2.03	0.58
2:I:1913:TRP:HZ3	2:I:1938:THR:HG21	1.68	0.58
2:I:348:THR:HB	2:I:349:PRO:CD	2.33	0.58
2:K:1722:ALA:CB	2:K:1812:LEU:HD21	2.33	0.58
2:G:600:VAL:HG13	2:G:601:PRO:CD	2.34	0.58
2:G:2036:ILE:HG22	2:G:2037:GLY:H	1.67	0.58
2:K:298:ALA:CB	2:K:304:PHE:HA	2.32	0.58
2:L:1436:ARG:NH2	2:L:1602:LEU:CD1	2.66	0.58
2:J:1094:HIS:O	2:J:1098:LEU:HB2	2.02	0.58
2:I:2005:PHE:HB3	2:I:2010:LEU:HD11	1.83	0.58
2:G:1421:ARG:HG2	2:G:1421:ARG:O	2.02	0.58
1:F:1218:VAL:HG13	1:F:1301:VAL:HG13	1.85	0.58
1:C:828:TRP:HE1	1:C:838:THR:HA	1.67	0.58
2:H:380:ILE:HG13	2:H:380:ILE:O	2.03	0.58
2:G:94:ALA:HB1	2:G:97:THR:OG1	2.03	0.58
2:G:410:ALA:HB1	2:G:414:LEU:HD12	1.85	0.58
2:J:57:PRO:HG2	2:J:68:GLU:HG3	1.84	0.58
2:H:290:VAL:HG22	2:H:490:LEU:HD13	1.85	0.58
2:H:867:LYS:HD3	2:H:1065:CYS:SG	2.43	0.58
1:F:1107:GLU:HG3	1:F:1108:PRO:CD	2.29	0.58
2:H:43:PHE:HZ	2:I:42:HIS:NE2	2.01	0.58
2:J:2044:THR:HG22	2:J:2046:LYS:H	1.68	0.58
2:J:462:ALA:H	2:J:483:ASP:HA	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1764:MET:HB3	2:G:1780:ILE:CD1	2.33	0.58
1:F:470:GLY:O	1:F:474:ILE:HG13	2.04	0.58
2:K:1370:LEU:HD12	2:K:1373:LEU:HD13	1.85	0.58
2:L:1709:TYR:C	2:L:1709:TYR:HD2	2.07	0.58
2:L:794:GLY:O	2:L:804:PRO:HA	2.03	0.58
2:J:573:VAL:HG22	2:J:804:PRO:HB2	1.85	0.58
2:G:327:PRO:HD2	2:H:1338:ARG:HH21	1.69	0.58
2:K:228:LEU:O	2:K:232:HIS:HD2	1.86	0.58
2:J:1317:ASN:HB3	2:J:1320:ALA:HB3	1.85	0.58
2:I:1309:PHE:CE2	2:I:1360:PRO:HA	2.38	0.58
2:G:596:ARG:HH22	2:G:1113:ILE:CD1	2.16	0.58
2:J:1807:GLN:HB2	2:J:1808:PRO:HD3	1.85	0.58
1:C:628:TYR:OH	1:C:630:LYS:HE2	2.03	0.58
2:G:1637:VAL:HG11	2:G:1679:LEU:CD1	2.32	0.58
1:D:40:ARG:HH21	1:D:72:THR:HG22	1.69	0.58
1:F:911:LEU:O	1:F:915:MET:HG3	2.04	0.58
2:G:289:ILE:HG12	2:G:493:MET:CE	2.32	0.58
2:J:485:ASP:O	2:J:488:PRO:HD2	2.03	0.58
2:L:1991:ARG:HG3	2:L:1996:ILE:HG12	1.85	0.58
2:L:1701:GLU:H	2:L:1704:MET:HE3	1.68	0.58
2:J:670:MET:HB2	2:J:674:ILE:HD12	1.86	0.58
2:L:305:ALA:O	2:L:309:LYS:HD3	2.04	0.58
1:D:470:GLY:O	1:D:474:ILE:HG13	2.03	0.58
1:D:632:LEU:HA	1:D:635:ILE:CG2	2.33	0.58
2:G:670:MET:HB2	2:G:674:ILE:HD12	1.84	0.58
2:L:1120:ILE:HG21	2:L:1167:ASN:HA	1.85	0.58
2:I:756:ASP:HA	2:I:843:TRP:HH2	1.69	0.58
2:K:349:PRO:O	2:K:392:THR:HG22	2.03	0.58
2:K:529:ASN:HD22	2:K:552:VAL:HG23	1.68	0.58
1:C:1488:SER:HB3	1:F:1484:GLU:OE1	2.03	0.58
2:L:1517:LEU:HG	2:L:1523:ILE:HD11	1.85	0.58
2:L:348:THR:HB	2:L:349:PRO:CD	2.34	0.58
2:G:882:LYS:HB3	2:G:898:ARG:HH12	1.69	0.58
1:B:843:VAL:HG13	1:B:900:ASP:HA	1.86	0.58
1:B:1336:GLU:O	1:B:1340:MET:HG2	2.03	0.58
2:J:1309:PHE:CE2	2:J:1360:PRO:HA	2.39	0.58
2:L:1659:ILE:HG13	2:L:1664:ILE:HD11	1.86	0.58
1:B:12:THR:O	1:B:16:GLU:HG2	2.03	0.58
2:H:351:LEU:HD22	2:H:352:SER:N	2.18	0.58
1:B:350:ASP:HB3	1:B:353:ALA:HB2	1.84	0.58
1:D:1234:GLY:HA2	1:D:1238:ASP:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:798:THR:HA	2:K:802:TYR:O	2.02	0.58
1:D:70:ALA:O	2:L:403:LEU:HD12	2.03	0.58
1:C:569:LEU:O	1:C:573:VAL:HG23	2.03	0.58
2:I:613:VAL:CG1	2:I:614:PRO:HD3	2.33	0.58
2:H:1194:ARG:HH21	2:H:1601:ASN:CG	2.05	0.58
1:D:1278:GLY:CA	1:D:1630:LYS:HE2	2.33	0.58
2:K:1189:THR:O	2:K:1191:PRO:HD3	2.03	0.58
1:D:427:ARG:NH1	1:D:492:ILE:HG23	2.11	0.58
2:G:635:TYR:CB	2:G:641:MET:HG3	2.33	0.58
2:I:917:ARG:HH11	2:I:917:ARG:HG2	1.67	0.58
2:L:1637:VAL:HG11	2:L:1679:LEU:HD22	1.86	0.58
2:G:917:ARG:HD2	2:G:917:ARG:N	2.17	0.58
2:I:926:LEU:O	2:I:1008:ILE:HD11	2.04	0.58
1:D:1004:PRO:HD3	1:D:1572:TRP:CH2	2.38	0.58
2:J:462:ALA:HB2	2:J:481:LEU:HB2	1.86	0.58
2:J:440:HIS:HD2	2:J:497:ASP:O	1.87	0.58
2:K:918:ASN:HB3	2:K:924:VAL:CG2	2.33	0.58
2:L:2021:LEU:O	2:L:2025:ILE:HG13	2.03	0.58
2:K:580:LEU:HD11	2:K:1098:LEU:HB3	1.85	0.58
2:L:549:ASN:HD22	2:L:550:THR:N	2.02	0.58
2:I:272:PRO:HD3	2:I:301:TRP:CE2	2.38	0.58
1:D:716:GLN:HB3	1:D:769:ILE:HG23	1.85	0.58
2:H:1515:LEU:O	2:H:1523:ILE:HD12	2.03	0.58
2:K:102:LEU:O	2:K:106:LEU:HG	2.03	0.58
1:D:418:ILE:HA	1:D:462:THR:HB	1.85	0.58
2:L:1116:PHE:O	2:L:1270:GLY:HA3	2.03	0.58
2:K:786:GLU:CD	2:K:786:GLU:H	2.06	0.58
1:D:339:GLN:O	1:D:343:ILE:HG13	2.04	0.58
1:E:890:ASN:OD1	2:H:1755:LYS:HE2	2.04	0.58
2:H:1674:THR:HB	2:H:1676:GLU:HG3	1.84	0.58
2:L:1897:GLU:HG2	2:L:1901:GLN:HE21	1.68	0.58
2:K:1538:ASN:HB3	2:K:1541:ILE:HG22	1.85	0.58
2:J:713:HIS:CD2	2:J:740:ILE:HD13	2.38	0.58
2:G:978:SER:O	2:G:981:GLN:HG2	2.03	0.58
1:B:1443:LEU:HD11	1:B:1470:ARG:HD2	1.85	0.58
2:I:623:ASN:OD1	2:I:653:PRO:HD3	2.02	0.58
2:I:846:THR:HG22	2:I:856:THR:N	2.19	0.58
2:K:1007:LEU:H	2:K:1007:LEU:CD1	2.15	0.58
2:K:1067:LEU:HB2	4:K:2101:FMN:HM71	1.85	0.58
2:L:289:ILE:HG12	2:L:493:MET:CE	2.32	0.58
2:L:420:PRO:HG3	2:L:847:TYR:CD1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:917:ARG:HG2	2:H:917:ARG:HH11	1.65	0.58
2:K:1375:HIS:HE1	2:K:1610:MET:SD	2.26	0.58
1:A:1491:ASN:HD22	1:A:1491:ASN:H	1.52	0.58
2:K:1048:TRP:HE1	2:K:1049:GLN:HE21	1.50	0.58
2:I:934:VAL:O	2:I:938:MET:HG3	2.04	0.58
2:I:1616:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.58
1:C:859:VAL:HG11	1:C:915:MET:HA	1.84	0.58
2:G:272:PRO:O	2:G:276:LEU:HB2	2.03	0.58
2:G:2005:PHE:HB3	2:G:2010:LEU:HD11	1.85	0.58
2:G:868:LEU:O	2:G:870:THR:HG23	2.03	0.58
2:H:789:TYR:HB3	2:H:790:PRO:HD3	1.85	0.58
1:D:1425:LEU:HD21	1:D:1429:ARG:NH2	2.17	0.58
1:B:1081:ILE:HG13	1:B:1159:LEU:O	2.02	0.58
2:L:35:PHE:HZ	2:L:104:LEU:HB3	1.69	0.58
1:B:1317:GLU:HB3	1:D:1250:LEU:HD22	1.84	0.58
2:G:1579:ASN:O	2:G:1583:VAL:HG23	2.04	0.58
2:I:1099:LEU:HD12	2:I:1103:TYR:HB2	1.85	0.58
2:L:1481:ILE:HD12	2:L:1515:LEU:HD23	1.85	0.58
2:I:70:SER:HB2	2:I:74:GLU:OE2	2.03	0.58
2:J:1844:LEU:HB3	2:J:1850:VAL:HG21	1.85	0.58
1:D:679:LYS:HG2	1:D:708:GLN:HB3	1.86	0.58
2:G:350:MET:HG3	2:G:435:ILE:HB	1.84	0.58
1:A:1001:GLU:O	1:A:1007:ASN:HA	2.04	0.58
2:I:871:ARG:CZ	2:I:909:ASP:HB3	2.33	0.58
2:G:1674:THR:HB	2:G:1676:GLU:HG3	1.85	0.58
1:C:1448:ALA:CA	1:C:1451:LYS:HE3	2.32	0.58
1:F:427:ARG:HG3	1:F:427:ARG:NH1	2.01	0.58
2:K:609:THR:HG22	2:K:633:GLY:HA3	1.85	0.58
2:K:1200:ARG:HD3	2:K:1200:ARG:N	2.06	0.58
2:K:158:LEU:HA	2:K:566:VAL:HG21	1.85	0.58
1:E:613:PRO:C	1:E:615:LEU:H	2.05	0.58
2:K:1637:VAL:CG1	2:K:1679:LEU:HD22	2.34	0.58
1:A:628:TYR:CD1	1:A:628:TYR:C	2.77	0.58
2:I:1374:VAL:CG2	2:I:1436:ARG:HE	2.17	0.58
2:H:876:TRP:C	2:H:876:TRP:CD1	2.76	0.58
2:I:1903:VAL:O	2:I:1907:ILE:HG13	2.04	0.58
2:K:596:ARG:HH22	2:K:1113:ILE:CD1	2.16	0.58
2:H:785:SER:HA	2:H:788:THR:HB	1.86	0.58
1:B:1425:LEU:HD21	1:B:1429:ARG:NH2	2.18	0.58
2:G:1083:ILE:O	2:G:1086:ILE:HG13	2.04	0.58
2:I:1846:ALA:HB3	2:I:1847:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:TYR:CD1	1:B:888:ILE:HD11	2.39	0.58
2:L:268:LEU:HD12	2:L:275:LEU:HD11	1.86	0.58
2:L:190:TYR:CD1	2:L:201:ILE:HD13	2.38	0.58
2:K:1318:ALA:HA	2:K:1391:VAL:CG2	2.34	0.58
1:E:1001:GLU:HG2	1:E:1008:ALA:HB2	1.86	0.58
2:J:119:VAL:HG21	2:J:140:TYR:CD2	2.39	0.58
2:L:789:TYR:HB3	2:L:790:PRO:HD3	1.84	0.58
1:A:1532:LYS:HE2	1:A:1598:VAL:HG11	1.85	0.58
2:J:859:SER:CB	2:J:863:GLU:HG3	2.34	0.58
1:C:433:CYS:O	1:C:437:MET:HG3	2.03	0.58
1:C:1524:GLY:HA2	1:C:1531:ASP:OD1	2.04	0.58
2:G:119:VAL:HG21	2:G:140:TYR:CD2	2.39	0.58
2:L:1944:ASN:HA	2:L:1993:PHE:CD2	2.38	0.58
2:J:1232:VAL:CG1	2:J:1246:LEU:HD23	2.34	0.58
2:H:653:PRO:O	2:H:656:ARG:HB2	2.04	0.58
2:H:752:HIS:CE1	2:H:847:TYR:CE2	2.80	0.58
2:L:272:PRO:HD3	2:L:301:TRP:CE2	2.38	0.58
2:J:613:VAL:HG23	2:J:635:TYR:CE1	2.39	0.58
1:C:1079:ARG:HG2	1:C:1079:ARG:NH1	2.13	0.58
2:H:868:LEU:O	2:H:870:THR:HG23	2.04	0.58
2:J:1616:VAL:HG11	2:J:1679:LEU:CD1	2.32	0.58
1:E:1711:LEU:O	1:E:1712:LYS:HG3	2.04	0.58
2:K:1384:PRO:HB3	2:K:1829:ARG:HH12	1.67	0.58
2:L:788:THR:HG22	2:L:1094:HIS:CE1	2.38	0.58
2:G:876:TRP:CD1	2:G:876:TRP:C	2.77	0.58
1:D:883:LEU:HA	1:D:888:ILE:HD12	1.85	0.58
2:L:170:TYR:CE2	2:L:507:PHE:HB3	2.38	0.58
1:A:1542:LEU:HD22	1:A:1547:ARG:HD3	1.84	0.58
1:E:924:GLU:OE1	2:K:1461:PRO:HG2	2.04	0.58
2:G:1248:GLU:OE1	2:G:1248:GLU:HA	2.04	0.58
1:E:30:GLU:HB2	2:K:2045:ALA:HB1	1.85	0.58
2:J:1818:PHE:HE2	2:J:1822:ARG:HH12	1.51	0.58
1:E:399:TYR:OH	1:E:692:THR:HG23	2.03	0.58
2:G:1457:HIS:ND1	2:G:1487:THR:HG22	2.19	0.58
1:B:444:LEU:HD22	1:B:448:MET:HG2	1.85	0.58
2:J:152:LYS:HB2	2:J:154:TYR:CE1	2.39	0.58
1:E:847:THR:OG1	1:E:876:MET:HG3	2.03	0.58
2:G:1933:LEU:O	2:G:1989:LEU:HD21	2.03	0.58
2:J:616:ASP:OD1	2:J:616:ASP:N	2.36	0.58
2:L:1334:ALA:HA	2:L:1341:ASP:HB2	1.84	0.58
2:L:1350:ILE:O	2:L:1354:TRP:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1514:ILE:O	1:B:1547:ARG:NH1	2.36	0.58
2:H:486:ILE:HG23	2:H:490:LEU:HG	1.86	0.58
2:L:610:PRO:O	2:L:613:VAL:HG12	2.04	0.58
2:H:1200:ARG:N	2:H:1200:ARG:HD3	2.10	0.58
2:H:832:ILE:HA	2:H:868:LEU:HD11	1.85	0.58
2:I:796:TRP:CH2	2:I:805:MET:HE1	2.39	0.58
2:H:1374:VAL:CG2	2:H:1436:ARG:HE	2.17	0.58
2:L:1436:ARG:HH22	2:L:1602:LEU:HD13	1.67	0.58
2:K:1246:LEU:HD11	2:K:1261:PHE:HE1	1.69	0.58
2:J:1093:ASP:O	2:J:1097:PHE:HD1	1.87	0.58
2:I:1899:ALA:O	2:I:1903:VAL:HG23	2.03	0.58
2:J:1305:LEU:HD12	2:J:1305:LEU:H	1.69	0.58
2:K:789:TYR:CE1	2:K:1097:PHE:HB3	2.39	0.58
2:G:1818:PHE:HE2	2:G:1822:ARG:HH12	1.51	0.58
2:L:1844:LEU:HB3	2:L:1850:VAL:HG21	1.86	0.58
2:I:827:GLN:H	2:I:827:GLN:NE2	2.01	0.58
1:D:1164:ILE:HD12	1:D:1355:GLN:HG3	1.85	0.58
2:G:1142:ILE:HG13	2:G:1209:PRO:CG	2.34	0.58
2:G:871:ARG:CZ	2:G:909:ASP:HB3	2.34	0.58
1:A:1149:LEU:HB2	1:E:1149:LEU:HB2	1.85	0.58
2:I:867:LYS:HD3	2:I:1065:CYS:SG	2.44	0.57
2:H:1067:LEU:HB2	4:H:2101:FMN:HM71	1.85	0.57
1:D:533:SER:HB2	1:D:612:ILE:HB	1.86	0.57
2:J:2036:ILE:CG2	2:J:2037:GLY:N	2.66	0.57
2:K:1380:TYR:CD2	2:K:1429:VAL:HG22	2.39	0.57
1:F:613:PRO:CG	1:F:633:THR:HG21	2.29	0.57
2:J:824:THR:HB	2:J:829:LYS:HE3	1.86	0.57
2:H:1669:ALA:HB3	2:H:1679:LEU:HB2	1.86	0.57
2:I:1445:THR:HG23	2:I:1498:PHE:HB2	1.86	0.57
2:I:485:ASP:O	2:I:488:PRO:HD2	2.02	0.57
2:G:1340:LYS:CE	2:I:376:ARG:HH22	2.17	0.57
2:H:1380:TYR:CD2	2:H:1429:VAL:HG22	2.39	0.57
2:K:616:ASP:OD1	2:K:616:ASP:N	2.36	0.57
2:H:882:LYS:HB3	2:H:898:ARG:NH1	2.19	0.57
1:B:1118:GLU:OE2	1:D:1154:LEU:HD21	2.03	0.57
2:I:272:PRO:O	2:I:276:LEU:HB2	2.03	0.57
1:A:746:PHE:HB3	3:A:1901:NAP:H52N	1.86	0.57
2:L:1947:LYS:HG2	2:L:1993:PHE:CD1	2.39	0.57
1:F:1224:SER:HB2	1:F:1307:PHE:O	2.04	0.57
2:G:532:LYS:HD3	2:G:537:VAL:HG21	1.86	0.57
1:A:535:TYR:CE2	1:A:610:GLU:HB3	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:170:TYR:CZ	2:I:507:PHE:HB3	2.39	0.57
2:K:1015:HIS:NE2	2:K:1019:LEU:HD11	2.19	0.57
2:K:2073:ASN:O	2:K:2076:LYS:HB3	2.04	0.57
1:B:418:ILE:HA	1:B:462:THR:HB	1.85	0.57
2:H:204:ILE:HG23	2:H:312:VAL:HG11	1.85	0.57
1:B:1142:LEU:N	1:B:1142:LEU:HD12	2.18	0.57
1:E:1083:PRO:HD2	1:E:1084:GLU:OE2	2.03	0.57
1:F:397:ARG:CG	1:F:397:ARG:NH1	2.46	0.57
2:L:374:GLU:CA	2:L:377:HIS:CD2	2.77	0.57
2:H:618:VAL:O	2:H:622:MET:HG3	2.04	0.57
1:C:1547:ARG:HG2	1:C:1604:TYR:CD1	2.39	0.57
1:B:1100:VAL:HG21	1:B:1150:ILE:CD1	2.34	0.57
2:J:618:VAL:O	2:J:622:MET:HG3	2.05	0.57
2:G:374:GLU:CA	2:G:377:HIS:HD2	2.16	0.57
1:E:427:ARG:CG	1:E:427:ARG:NH1	2.53	0.57
2:J:917:ARG:HD3	2:J:937:ARG:NH2	2.19	0.57
2:K:2062:THR:HG22	2:K:2064:SER:N	2.19	0.57
1:B:586:GLN:C	1:E:538:ARG:NH2	2.57	0.57
2:J:1007:LEU:CD1	2:J:1007:LEU:H	2.15	0.57
2:G:174:GLY:H	2:G:517:GLY:HA3	1.69	0.57
2:L:582:LYS:HG3	2:L:1110:VAL:HG11	1.87	0.57
2:I:486:ILE:HG23	2:I:490:LEU:HG	1.86	0.57
1:A:767:HIS:CE1	1:F:767:HIS:CE1	2.92	0.57
2:J:1751:GLY:O	2:J:1755:LYS:HG2	2.03	0.57
1:D:1213:VAL:HG13	1:D:1217:GLU:HB2	1.87	0.57
1:B:1250:LEU:HD22	1:D:1317:GLU:HB3	1.85	0.57
2:G:789:TYR:HB3	2:G:790:PRO:HD3	1.85	0.57
2:K:875:PHE:O	2:K:878:GLU:HB2	2.03	0.57
2:I:305:ALA:O	2:I:309:LYS:HD3	2.04	0.57
1:B:883:LEU:HA	1:B:888:ILE:HD12	1.86	0.57
2:L:843:TRP:C	2:L:843:TRP:CD1	2.77	0.57
2:G:190:TYR:CD1	2:G:201:ILE:HD13	2.39	0.57
2:J:26:LEU:O	2:J:32:GLU:HA	2.04	0.57
2:J:204:ILE:HG23	2:J:312:VAL:HG11	1.85	0.57
1:D:1446:GLU:O	1:D:1450:ILE:HG13	2.03	0.57
2:L:871:ARG:CZ	2:L:909:ASP:HB3	2.34	0.57
2:K:1248:GLU:OE1	2:K:1248:GLU:HA	2.04	0.57
1:F:1038:HIS:O	1:F:1048:SER:HA	2.04	0.57
2:H:1593:SER:OG	2:H:1596:PHE:HB2	2.04	0.57
1:A:1234:GLY:HA2	1:A:1238:ASP:HB2	1.85	0.57
2:J:1659:ILE:HG13	2:J:1664:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1547:ARG:HG2	1:D:1604:TYR:CD1	2.40	0.57
2:L:1246:LEU:HD11	2:L:1261:PHE:HE1	1.70	0.57
1:E:1448:ALA:HA	1:E:1451:LYS:CE	2.32	0.57
1:A:1330:GLU:HG2	1:A:1333:ARG:NH1	2.19	0.57
2:G:1067:LEU:HB2	4:G:2101:FMN:HM71	1.85	0.57
1:C:427:ARG:HH11	1:C:492:ILE:HG12	1.69	0.57
2:L:663:ILE:HG21	3:L:2102:NAP:H1D	1.86	0.57
2:H:915:PHE:HB2	2:H:1030:PHE:CD1	2.39	0.57
2:I:1669:ALA:HB3	2:I:1679:LEU:HB2	1.86	0.57
2:I:1436:ARG:NH2	2:I:1602:LEU:CD1	2.67	0.57
2:H:2054:TYR:HA	2:H:2057:GLU:OE1	2.03	0.57
2:I:1265:TYR:O	2:I:1267:PRO:HD3	2.05	0.57
2:I:918:ASN:HB3	2:I:924:VAL:CG2	2.34	0.57
2:J:789:TYR:CE1	2:J:1097:PHE:HB3	2.39	0.57
2:J:580:LEU:HD11	2:J:1098:LEU:HB3	1.85	0.57
2:H:606:ALA:HB2	2:H:811:MET:HG3	1.86	0.57
2:K:1709:TYR:C	2:K:1709:TYR:HD2	2.08	0.57
2:K:197:VAL:HG21	2:K:263:ILE:HD11	1.85	0.57
1:C:562:SER:CB	1:D:551:LEU:HD21	2.32	0.57
2:H:193:TYR:CD1	2:H:263:ILE:HD13	2.39	0.57
1:A:1337:PRO:HA	1:A:1340:MET:HG3	1.87	0.57
2:G:756:ASP:HA	2:G:843:TRP:HH2	1.69	0.57
2:L:1380:TYR:CD2	2:L:1429:VAL:HG22	2.39	0.57
2:L:1880:ASN:HB3	2:L:1881:TYR:CD1	2.39	0.57
1:D:869:ARG:O	1:D:903:GLY:HA3	2.04	0.57
2:K:1142:ILE:HG13	2:K:1209:PRO:CG	2.33	0.57
1:F:948:HIS:O	1:F:952:TYR:HD2	1.86	0.57
1:E:696:GLN:HG3	1:E:697:GLY:N	2.18	0.57
1:D:1336:GLU:O	1:D:1340:MET:HG2	2.03	0.57
1:B:828:TRP:HE1	1:B:838:THR:HA	1.69	0.57
2:H:1659:ILE:HG13	2:H:1664:ILE:HD11	1.86	0.57
2:I:596:ARG:HH22	2:I:1113:ILE:CD1	2.17	0.57
2:H:610:PRO:O	2:H:613:VAL:HG12	2.03	0.57
2:L:298:ALA:CB	2:L:304:PHE:HA	2.34	0.57
2:J:374:GLU:CA	2:J:377:HIS:HD2	2.15	0.57
2:L:524:ILE:HA	2:L:527:LEU:HD12	1.86	0.57
1:F:40:ARG:HH21	1:F:72:THR:HG22	1.69	0.57
2:L:713:HIS:CD2	2:L:740:ILE:HD13	2.39	0.57
1:E:552:ILE:HG21	1:E:566:PHE:CZ	2.40	0.57
2:K:1120:ILE:CD1	2:K:1173:HIS:CE1	2.86	0.57
1:D:967:PHE:CE2	1:D:1662:GLN:HB2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:361:VAL:O	2:L:365:ILE:HG13	2.03	0.57
1:F:405:TRP:CZ3	1:F:1609:SER:HB3	2.39	0.57
2:H:1351:VAL:HG23	2:H:1584:SER:HA	1.85	0.57
1:E:506:ILE:HD13	1:E:922:ILE:HG22	1.85	0.57
2:H:1334:ALA:HA	2:H:1341:ASP:HB2	1.87	0.57
1:F:418:ILE:HA	1:F:462:THR:HB	1.85	0.57
2:L:1674:THR:HB	2:L:1676:GLU:HG3	1.86	0.57
2:J:894:GLU:O	2:J:897:LYS:HG2	2.03	0.57
2:H:616:ASP:OD1	2:H:616:ASP:N	2.37	0.57
2:K:152:LYS:HB2	2:K:154:TYR:CE1	2.40	0.57
2:J:1266:HIS:NE2	2:J:1275:ARG:HD2	2.19	0.57
2:K:1897:GLU:HG2	2:K:1901:GLN:HE21	1.68	0.57
1:A:1323:ALA:HB1	1:A:1351:PHE:HE2	1.68	0.57
1:C:1148:LEU:HD21	1:F:1150:ILE:HG12	1.85	0.57
2:K:745:GLY:HA3	2:K:757:PHE:HB3	1.85	0.57
2:K:825:SER:HB2	2:K:1053:ILE:HG13	1.86	0.57
2:J:914:TRP:CD1	2:J:916:GLY:HA3	2.40	0.57
2:K:978:SER:O	2:K:981:GLN:HG2	2.04	0.57
2:G:388:ASN:HD22	2:G:388:ASN:C	2.06	0.57
2:G:1383:VAL:HG23	2:G:1428:TYR:CE1	2.40	0.57
2:G:1171:TRP:CD1	2:G:1172:ARG:N	2.72	0.57
2:J:1203:TYR:HB3	2:J:1220:ARG:HB2	1.87	0.57
2:L:197:VAL:HG12	2:L:201:ILE:HG13	1.86	0.57
2:I:361:VAL:O	2:I:365:ILE:HG13	2.05	0.57
1:B:1307:PHE:HA	1:B:1568:ALA:HB2	1.87	0.57
2:K:834:ASP:O	2:K:836:PRO:HD3	2.04	0.57
1:A:433:CYS:O	1:A:437:MET:HG3	2.04	0.57
2:H:1538:ASN:HB3	2:H:1541:ILE:HG22	1.86	0.57
1:E:948:HIS:O	1:E:952:TYR:HD2	1.87	0.57
1:E:959:PRO:HB3	2:K:972:SER:HA	1.87	0.57
1:E:524:LYS:O	1:E:527:ALA:N	2.37	0.57
2:J:706:ILE:HG22	2:J:707:GLN:HG2	1.87	0.57
1:C:1510:TRP:CZ3	1:C:1642:LEU:HA	2.40	0.57
1:E:350:ASP:HB3	1:E:353:ALA:HB2	1.85	0.57
1:A:1421:ARG:HD2	1:A:1489:PHE:O	2.05	0.57
1:F:612:ILE:HG23	1:F:628:TYR:HD2	1.68	0.57
2:J:2054:TYR:HA	2:J:2057:GLU:OE1	2.04	0.57
1:D:452:ILE:HD12	1:D:467:LYS:HA	1.87	0.57
2:I:794:GLY:O	2:I:804:PRO:HA	2.04	0.57
2:L:1370:LEU:HA	2:L:1435:TYR:CE2	2.40	0.57
2:J:1171:TRP:CZ3	2:J:1236:LEU:HB2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1090:ILE:O	2:K:1094:HIS:CD2	2.57	0.57
1:A:501:ASP:OD2	1:A:503:ARG:HB2	2.03	0.57
2:H:756:ASP:HA	2:H:843:TRP:HH2	1.67	0.57
2:J:875:PHE:O	2:J:878:GLU:HB2	2.04	0.57
2:L:902:ILE:O	2:L:906:LEU:HB2	2.03	0.57
1:C:42:GLU:OE1	2:I:1688:PRO:HB3	2.04	0.57
2:L:261:TYR:CD1	2:L:295:ILE:HG12	2.39	0.57
2:I:894:GLU:O	2:I:897:LYS:HG2	2.05	0.57
2:K:209:GLN:O	2:K:213:ARG:HG3	2.05	0.57
1:C:1267:LEU:HD11	1:C:1303:LEU:HD12	1.85	0.57
2:H:834:ASP:O	2:H:836:PRO:HD3	2.04	0.57
2:I:616:ASP:N	2:I:616:ASP:OD1	2.38	0.57
1:D:1448:ALA:CA	1:D:1451:LYS:HE3	2.32	0.57
1:A:557:ARG:O	1:F:557:ARG:HD2	2.05	0.57
2:H:911:GLN:HG3	2:H:1064:THR:HA	1.87	0.57
2:H:1009:ASN:O	2:H:1013:VAL:HG23	2.04	0.57
1:C:1107:GLU:HG3	1:C:1108:PRO:CD	2.31	0.57
2:I:942:MET:HE2	2:I:955:LEU:HD13	1.86	0.57
2:L:2059:HIS:HB2	2:L:2067:ILE:HG21	1.86	0.57
2:K:1701:GLU:H	2:K:1704:MET:HE3	1.68	0.57
2:J:1374:VAL:CG2	2:J:1436:ARG:HE	2.18	0.57
1:E:1223:GLY:CA	1:E:1276:PRO:HD2	2.35	0.57
2:K:1899:ALA:O	2:K:1903:VAL:HG23	2.03	0.57
1:B:1386:THR:HB	1:D:1269:SER:O	2.04	0.57
1:F:501:ASP:OD2	1:F:503:ARG:HB2	2.04	0.57
2:L:1393:ASP:HB3	2:L:1395:LEU:HD21	1.87	0.57
2:K:580:LEU:HD21	2:K:1095:ILE:HA	1.87	0.57
2:K:221:TYR:CE2	2:K:225:LEU:HD22	2.39	0.57
2:G:1342:PHE:HE2	2:G:1391:VAL:CG2	2.18	0.57
2:G:1481:ILE:HD12	2:G:1515:LEU:HD23	1.87	0.57
2:H:47:GLN:HG3	2:I:23:PRO:HD2	1.85	0.57
2:J:190:TYR:CD1	2:J:201:ILE:HD13	2.39	0.57
1:C:569:LEU:HD22	1:D:544:ASP:HB3	1.87	0.57
2:H:119:VAL:HG21	2:H:140:TYR:CD2	2.40	0.57
2:K:1944:ASN:HA	2:K:1993:PHE:CD2	2.40	0.57
2:H:532:LYS:HD3	2:H:537:VAL:HG21	1.86	0.57
2:K:1317:ASN:HB3	2:K:1320:ALA:HB3	1.86	0.57
2:H:731:ALA:HA	2:H:739:ILE:HD13	1.87	0.57
1:B:963:LEU:HD23	1:B:1023:GLU:HB3	1.86	0.57
2:H:871:ARG:CZ	2:H:909:ASP:HB3	2.35	0.57
1:C:1330:GLU:HG2	1:C:1333:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:618:VAL:O	2:L:622:MET:HG3	2.05	0.57
2:H:1194:ARG:NH1	2:H:1194:ARG:CG	2.54	0.57
1:A:532:ILE:HG22	1:A:907:PHE:CG	2.40	0.57
2:K:1009:ASN:O	2:K:1013:VAL:HG23	2.05	0.57
2:J:2059:HIS:HB2	2:J:2067:ILE:HG21	1.87	0.57
1:A:684:THR:HG21	1:A:691:VAL:HG11	1.86	0.57
2:H:138:ARG:HB3	2:H:192:THR:HG23	1.87	0.57
2:J:1015:HIS:NE2	2:J:1019:LEU:HD11	2.20	0.57
2:H:170:TYR:CZ	2:H:507:PHE:HB3	2.39	0.57
1:E:1014:MET:O	1:E:1590:ARG:NH2	2.35	0.57
2:J:120:HIS:HD2	2:J:137:VAL:HG21	1.69	0.57
2:L:70:SER:HB2	2:L:74:GLU:OE2	2.04	0.57
2:H:1564:SER:HB2	2:H:1653:LEU:H	1.69	0.57
2:K:1176:PHE:CE1	2:K:1192:LEU:HD13	2.40	0.57
1:A:875:GLU:O	1:A:878:PHE:HB3	2.04	0.57
1:E:31:THR:HG23	2:K:2040:ILE:HG21	1.86	0.57
2:H:2073:ASN:O	2:H:2076:LYS:HB3	2.04	0.57
2:K:250:PHE:CB	2:K:251:PRO:HD3	2.35	0.57
1:F:628:TYR:OH	1:F:630:LYS:HE2	2.05	0.57
1:E:1307:PHE:HB3	1:E:1357:CYS:HB3	1.85	0.57
2:H:670:MET:HB2	2:H:674:ILE:HD12	1.86	0.57
2:I:376:ARG:CB	2:I:394:PRO:HG2	2.33	0.57
2:I:825:SER:HB2	2:I:1053:ILE:HG13	1.86	0.57
1:E:469:LEU:O	1:E:472:GLN:HB3	2.05	0.57
1:C:1032:MET:HE3	1:C:1165:PRO:HB3	1.86	0.57
2:J:1804:GLN:HB3	2:J:1861:PHE:CE1	2.39	0.57
2:L:1324:PHE:HA	2:L:1583:VAL:HG11	1.86	0.57
2:H:843:TRP:CD1	2:H:843:TRP:C	2.78	0.57
1:E:746:PHE:CE1	1:E:800:PRO:HG3	2.40	0.57
1:A:551:LEU:HD23	1:A:551:LEU:C	2.25	0.57
1:B:847:THR:OG1	1:B:876:MET:HG3	2.04	0.57
2:J:1142:ILE:HG13	2:J:1209:PRO:CG	2.35	0.57
1:D:948:HIS:O	1:D:952:TYR:HD2	1.88	0.57
2:K:396:ILE:HD12	2:K:396:ILE:H	1.68	0.57
2:I:882:LYS:HB3	2:I:898:ARG:HH12	1.70	0.57
2:H:349:PRO:O	2:H:392:THR:HG22	2.05	0.57
1:A:948:HIS:O	1:A:952:TYR:HD2	1.88	0.57
2:G:915:PHE:HB2	2:G:1030:PHE:CD1	2.40	0.57
2:L:1913:TRP:HZ3	2:L:1938:THR:HG21	1.70	0.57
2:J:170:TYR:CZ	2:J:507:PHE:HB3	2.40	0.57
2:K:1593:SER:OG	2:K:1596:PHE:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1334:ALA:HA	2:I:1341:ASP:HB2	1.87	0.57
1:F:399:TYR:OH	1:F:692:THR:HG23	2.04	0.57
1:B:9:LEU:HB2	2:H:2050:ILE:HD11	1.86	0.57
2:H:1944:ASN:HA	2:H:1993:PHE:CD2	2.40	0.57
1:E:1260:ALA:O	1:E:1264:MET:HG3	2.05	0.57
2:G:1880:ASN:HB3	2:G:1881:TYR:CD1	2.40	0.57
1:B:1207:TYR:CZ	1:B:1682:LYS:HD2	2.39	0.57
2:H:1231:THR:CG2	2:H:1595:VAL:HG11	2.35	0.57
2:H:752:HIS:NE2	2:H:856:THR:HG22	2.19	0.57
1:C:1514:ILE:O	1:C:1547:ARG:NH1	2.38	0.57
2:H:462:ALA:HB2	2:H:481:LEU:HB2	1.87	0.57
1:E:965:TYR:CZ	1:E:1199:LEU:CD2	2.78	0.57
2:H:937:ARG:NE	2:H:941:LEU:HD11	2.18	0.57
2:K:1048:TRP:CD2	2:K:1049:GLN:HG2	2.40	0.57
2:K:935:VAL:HG11	2:K:997:LEU:HD21	1.86	0.57
2:G:1405:ILE:HA	2:G:1445:THR:OG1	2.04	0.57
2:I:460:ILE:HD13	2:I:487:ILE:HD11	1.87	0.57
2:K:1807:GLN:HB2	2:K:1808:PRO:HD3	1.87	0.57
2:G:1709:TYR:C	2:G:1709:TYR:CD2	2.77	0.57
2:J:663:ILE:HG21	3:J:2102:NAP:H1D	1.86	0.57
1:D:962:ASN:HB3	2:J:969:ARG:CD	2.35	0.57
2:H:1411:LYS:HE3	2:H:1441:ASP:OD2	2.05	0.57
1:E:1425:LEU:HD21	1:E:1429:ARG:NH2	2.19	0.57
2:J:1517:LEU:HG	2:J:1523:ILE:HD11	1.87	0.57
1:B:15:VAL:HG11	2:H:2022:LEU:HD21	1.87	0.57
2:H:1481:ILE:HD12	2:H:1515:LEU:HD23	1.86	0.57
2:H:348:THR:HB	2:H:349:PRO:CD	2.35	0.57
2:J:1574:PRO:HD3	2:J:1611:TYR:CE2	2.40	0.57
1:C:869:ARG:O	1:C:903:GLY:HA3	2.05	0.57
2:L:834:ASP:O	2:L:836:PRO:HD3	2.05	0.57
1:B:94:PRO:HD3	2:H:1559:ASN:ND2	2.19	0.57
1:F:1547:ARG:HG2	1:F:1604:TYR:CD1	2.40	0.57
2:I:608:MET:HE3	4:I:2101:FMN:C8	2.35	0.56
2:I:911:GLN:HG3	2:I:1064:THR:HA	1.85	0.56
2:G:167:VAL:HG23	2:G:169:ILE:HG13	1.88	0.56
2:L:485:ASP:O	2:L:488:PRO:HD2	2.04	0.56
2:H:485:ASP:O	2:H:488:PRO:HD2	2.05	0.56
2:L:635:TYR:CB	2:L:641:MET:HG3	2.34	0.56
2:J:610:PRO:HD2	4:J:2101:FMN:C6	2.24	0.56
2:L:917:ARG:HD2	2:L:917:ARG:N	2.19	0.56
1:B:998:GLY:HA3	1:B:1361:VAL:CG1	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:524:ILE:HA	2:J:527:LEU:HD12	1.87	0.56
2:J:1445:THR:HG23	2:J:1498:PHE:HB2	1.87	0.56
1:C:1005:TRP:NE1	1:C:1561:LEU:CD2	2.67	0.56
2:H:918:ASN:HB3	2:H:924:VAL:CG2	2.35	0.56
2:K:2054:TYR:HA	2:K:2057:GLU:OE1	2.05	0.56
2:K:1370:LEU:HA	2:K:1435:TYR:HE2	1.69	0.56
2:L:1709:TYR:C	2:L:1709:TYR:CD2	2.78	0.56
2:I:1114:GLU:HB3	2:I:1169:TYR:HB3	1.85	0.56
2:I:298:ALA:HB2	2:I:304:PHE:HA	1.87	0.56
2:K:350:MET:HG3	2:K:435:ILE:CG2	2.34	0.56
1:C:636:TYR:CD1	1:C:888:ILE:HD11	2.40	0.56
1:F:799:LEU:HD12	1:F:821:LEU:HB3	1.87	0.56
2:K:1309:PHE:CE2	2:K:1360:PRO:HA	2.40	0.56
1:E:418:ILE:HA	1:E:462:THR:HB	1.86	0.56
2:K:409:LYS:HB3	2:K:428:PHE:CZ	2.40	0.56
2:K:1157:VAL:HG22	2:K:1198:PRO:HD2	1.87	0.56
1:F:1606:VAL:O	1:F:1608:PRO:HD3	2.05	0.56
2:K:663:ILE:HG21	3:K:2102:NAP:H1D	1.86	0.56
2:K:750:GLY:O	2:K:865:ILE:HA	2.06	0.56
2:L:462:ALA:HB2	2:L:481:LEU:HB2	1.88	0.56
1:D:1107:GLU:HG3	1:D:1108:PRO:CD	2.33	0.56
2:G:608:MET:HE3	4:G:2101:FMN:C8	2.35	0.56
1:D:613:PRO:C	1:D:615:LEU:H	2.07	0.56
2:H:930:THR:HA	2:H:1007:LEU:HA	1.85	0.56
1:E:40:ARG:NH2	1:E:72:THR:HG22	2.19	0.56
2:K:388:ASN:C	2:K:388:ASN:HD22	2.09	0.56
2:H:1903:VAL:O	2:H:1907:ILE:HG13	2.04	0.56
2:G:305:ALA:O	2:G:309:LYS:HD3	2.04	0.56
2:L:1764:MET:HG3	2:L:1781:PHE:CE1	2.40	0.56
2:J:915:PHE:HB2	2:J:1030:PHE:CD1	2.40	0.56
1:A:1307:PHE:HA	1:A:1568:ALA:HB2	1.87	0.56
1:B:22:PHE:HE2	2:H:2017:PHE:CG	2.24	0.56
1:A:1640:LYS:HG3	1:A:1641:TYR:N	2.20	0.56
2:I:44:GLN:HG3	2:I:101:VAL:HG21	1.87	0.56
2:H:83:VAL:O	2:H:87:VAL:HG23	2.05	0.56
1:F:714:PHE:CE1	1:F:725:LEU:HD12	2.40	0.56
2:L:204:ILE:HG23	2:L:312:VAL:HG11	1.86	0.56
1:E:849:GLY:HA3	1:E:873:GLN:CG	2.34	0.56
1:C:350:ASP:HB3	1:C:353:ALA:HB2	1.87	0.56
2:L:706:ILE:HG22	2:L:707:GLN:HG2	1.87	0.56
1:C:1427:LEU:HD11	1:F:1435:TRP:HD1	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1203:TYR:HB3	2:I:1220:ARG:HB2	1.87	0.56
2:I:1594:ARG:NH1	2:I:1594:ARG:CG	2.60	0.56
1:D:1330:GLU:HG2	1:D:1333:ARG:NH1	2.20	0.56
1:D:1443:LEU:HD11	1:D:1470:ARG:HD2	1.87	0.56
2:I:635:TYR:CB	2:I:641:MET:HG3	2.34	0.56
2:L:290:VAL:HG13	2:L:314:LEU:HD23	1.87	0.56
2:J:612:THR:O	2:J:612:THR:HG22	2.05	0.56
2:J:613:VAL:CG1	2:J:614:PRO:HD3	2.35	0.56
2:I:937:ARG:NE	2:I:941:LEU:HD11	2.20	0.56
1:F:1672:GLY:HA3	1:F:1678:LEU:CD2	2.31	0.56
2:H:1873:ARG:NH1	2:H:2002:ASP:HB3	2.20	0.56
2:K:1873:ARG:NH1	2:K:2002:ASP:HB3	2.20	0.56
2:G:1991:ARG:HG3	2:G:1996:ILE:HG12	1.88	0.56
1:D:746:PHE:HB3	3:D:1901:NAP:H52N	1.87	0.56
2:H:43:PHE:CE2	2:I:22:ARG:CB	2.87	0.56
1:C:868:VAL:HG11	1:C:908:ILE:CD1	2.34	0.56
1:D:905:LEU:HD22	1:D:911:LEU:CD2	2.35	0.56
2:G:2062:THR:HG22	2:G:2063:GLY:N	2.20	0.56
2:G:462:ALA:H	2:G:483:ASP:HA	1.69	0.56
2:J:486:ILE:HG23	2:J:490:LEU:HG	1.87	0.56
2:L:590:VAL:HG23	2:L:1091:HIS:CD2	2.40	0.56
2:H:713:HIS:CD2	2:H:740:ILE:HD13	2.40	0.56
2:I:606:ALA:HB2	2:I:811:MET:HG3	1.85	0.56
2:K:268:LEU:HD12	2:K:275:LEU:HD11	1.87	0.56
2:G:1878:ARG:HE	2:G:1986:PRO:HG3	1.70	0.56
1:B:422:LEU:HD13	1:B:429:ILE:HG12	1.87	0.56
2:J:378:ILE:HD11	2:J:398:LEU:HA	1.86	0.56
2:H:1350:ILE:O	2:H:1354:TRP:HB2	2.05	0.56
2:G:911:GLN:HG3	2:G:1064:THR:HA	1.87	0.56
2:G:785:SER:HA	2:G:788:THR:HB	1.87	0.56
1:B:962:ASN:HB3	2:H:969:ARG:HD2	1.86	0.56
1:C:961:ALA:CB	1:C:1022:LEU:HD12	2.35	0.56
2:G:1171:TRP:CE3	2:G:1236:LEU:HD22	2.39	0.56
2:K:1804:GLN:HB3	2:K:1861:PHE:CE1	2.40	0.56
2:H:1171:TRP:CE3	2:H:1236:LEU:HD22	2.39	0.56
1:F:469:LEU:O	1:F:472:GLN:HB3	2.05	0.56
1:F:746:PHE:HB3	3:F:1901:NAP:H52N	1.87	0.56
2:L:756:ASP:HA	2:L:843:TRP:HH2	1.70	0.56
2:L:57:PRO:CG	2:L:68:GLU:HG3	2.35	0.56
1:B:1431:GLN:HG2	1:D:1431:GLN:OE1	2.04	0.56
2:K:882:LYS:HB3	2:K:898:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:349:PRO:O	2:G:392:THR:HG22	2.04	0.56
2:K:204:ILE:HG21	2:K:312:VAL:HG21	1.87	0.56
1:A:548:VAL:HG23	1:F:569:LEU:HD13	1.86	0.56
2:J:859:SER:HB3	2:J:863:GLU:HG3	1.88	0.56
2:L:1944:ASN:HA	2:L:1993:PHE:HD2	1.69	0.56
2:G:768:ILE:O	2:G:774:ILE:HD12	2.05	0.56
1:B:904:GLY:HA2	1:B:906:GLN:OE1	2.06	0.56
2:H:1818:PHE:HE2	2:H:1822:ARG:HH12	1.53	0.56
2:J:1334:ALA:HA	2:J:1341:ASP:HB2	1.87	0.56
1:F:847:THR:OG1	1:F:876:MET:HG3	2.06	0.56
2:L:380:ILE:O	2:L:380:ILE:HG13	2.05	0.56
1:D:1168:TRP:NE1	1:D:1173:TYR:HE1	2.03	0.56
1:C:849:GLY:HA3	1:C:873:GLN:CG	2.36	0.56
2:L:196:PHE:HD2	2:L:196:PHE:H	1.53	0.56
1:D:24:MET:HB3	2:J:2043:VAL:HG12	1.86	0.56
2:L:731:ALA:HA	2:L:739:ILE:HD13	1.88	0.56
2:K:871:ARG:CZ	2:K:909:ASP:HB3	2.35	0.56
2:I:1659:ILE:HG13	2:I:1664:ILE:HD11	1.86	0.56
2:H:1963:GLU:HA	2:H:1966:ARG:HB3	1.88	0.56
1:E:1448:ALA:CA	1:E:1451:LYS:HE3	2.34	0.56
2:H:635:TYR:CB	2:H:641:MET:HG3	2.35	0.56
2:G:613:VAL:HG13	2:G:614:PRO:CD	2.35	0.56
1:C:427:ARG:CG	1:C:427:ARG:NH1	2.58	0.56
1:E:532:ILE:HG22	1:E:907:PHE:CB	2.36	0.56
2:K:524:ILE:HA	2:K:527:LEU:HD12	1.86	0.56
2:K:451:ILE:O	2:K:455:VAL:HG23	2.05	0.56
1:A:911:LEU:O	1:A:915:MET:HG3	2.06	0.56
1:B:408:GLN:HG2	1:B:1610:ARG:NH1	2.19	0.56
2:K:590:VAL:HG23	2:K:1091:HIS:CD2	2.41	0.56
2:G:1610:MET:CE	2:G:1610:MET:HA	2.34	0.56
2:G:843:TRP:CD1	2:G:843:TRP:C	2.77	0.56
1:B:636:TYR:CZ	1:B:640:LEU:HD22	2.40	0.56
2:K:1171:TRP:CZ3	2:K:1236:LEU:HB2	2.40	0.56
2:K:378:ILE:HD11	2:K:398:LEU:HA	1.88	0.56
2:H:1203:TYR:HB3	2:H:1220:ARG:HB2	1.88	0.56
2:L:1554:PRO:HA	2:L:1659:ILE:HG12	1.88	0.56
1:F:1307:PHE:HB3	1:F:1357:CYS:CB	2.36	0.56
2:H:372:LEU:HD11	2:H:397:SER:HB2	1.87	0.56
1:B:1068:TYR:O	1:B:1072:ILE:HG13	2.06	0.56
2:G:1607:THR:HB	2:G:1643:VAL:O	2.05	0.56
2:K:992:ALA:O	2:K:995:ARG:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1207:THR:O	2:L:1215:THR:HA	2.05	0.56
2:K:1880:ASN:HB3	2:K:1881:TYR:CD1	2.40	0.56
2:H:1207:THR:O	2:H:1215:THR:HA	2.04	0.56
2:H:1566:LYS:O	2:H:1568:PRO:HD3	2.05	0.56
2:J:731:ALA:HA	2:J:739:ILE:HD13	1.88	0.56
2:H:952:ASP:OD1	2:H:953:PRO:HD2	2.05	0.56
1:B:862:GLY:O	1:B:865:LYS:HB2	2.06	0.56
2:I:209:GLN:O	2:I:213:ARG:HG3	2.05	0.56
2:K:700:GLU:H	2:K:700:GLU:CD	2.08	0.56
2:H:1246:LEU:HD11	2:H:1261:PHE:HE1	1.70	0.56
2:K:752:HIS:CE1	2:K:856:THR:HG21	2.40	0.56
2:L:653:PRO:O	2:L:656:ARG:HB2	2.05	0.56
2:J:855:ILE:HB	2:J:869:ALA:HB2	1.86	0.56
1:E:998:GLY:CA	1:E:1361:VAL:HG13	2.27	0.56
2:K:460:ILE:HD13	2:K:487:ILE:HD11	1.85	0.56
1:A:40:ARG:NH2	1:A:72:THR:HG22	2.20	0.56
2:L:1053:ILE:HD11	2:L:1061:VAL:HG13	1.86	0.56
1:D:1565:PRO:O	1:D:1567:GLY:N	2.39	0.56
2:G:382:LEU:HB3	2:G:499:VAL:HB	1.87	0.56
1:E:1004:PRO:HD3	1:E:1572:TRP:CH2	2.40	0.56
2:J:1083:ILE:O	2:J:1086:ILE:HG13	2.05	0.56
2:G:1701:GLU:H	2:G:1704:MET:HE3	1.68	0.56
2:J:1764:MET:HG3	2:J:1781:PHE:CE1	2.39	0.56
2:J:663:ILE:CD1	2:J:663:ILE:H	2.12	0.56
1:C:408:GLN:HG2	1:C:1610:ARG:NH1	2.20	0.56
2:L:699:ILE:CD1	2:L:699:ILE:H	2.19	0.56
2:H:221:TYR:CE2	2:H:225:LEU:HD22	2.40	0.56
2:I:1171:TRP:CE3	2:I:1236:LEU:HD22	2.40	0.56
1:A:1386:THR:HG22	1:A:1629:GLN:HE21	1.70	0.56
2:I:876:TRP:CD1	2:I:876:TRP:C	2.79	0.56
2:G:1897:GLU:HG2	2:G:1901:GLN:NE2	2.20	0.56
1:A:843:VAL:O	1:A:843:VAL:HG22	2.05	0.56
2:L:789:TYR:CE1	2:L:1097:PHE:HB3	2.40	0.56
2:L:1266:HIS:NE2	2:L:1275:ARG:HD2	2.20	0.56
2:H:1607:THR:HB	2:H:1643:VAL:O	2.05	0.56
2:J:611:THR:HG21	2:J:817:MET:HE2	1.86	0.56
2:J:871:ARG:CZ	2:J:909:ASP:HB3	2.36	0.56
1:C:1534:GLU:HG2	1:C:1625:PHE:CE1	2.40	0.56
1:A:1132:ILE:HD12	1:A:1137:GLN:HB2	1.87	0.56
2:K:1194:ARG:NH1	2:K:1194:ARG:CG	2.52	0.56
2:L:462:ALA:H	2:L:483:ASP:HA	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:159:PHE:HA	2:J:162:ALA:HB3	1.87	0.56
2:G:1637:VAL:HG11	2:G:1679:LEU:HD22	1.87	0.56
2:K:290:VAL:HG13	2:K:314:LEU:HD23	1.88	0.56
1:F:888:ILE:HA	1:F:891:LEU:HD12	1.87	0.56
2:G:1265:TYR:O	2:G:1267:PRO:HD3	2.05	0.56
1:B:20:TYR:CE2	2:H:2062:THR:HG23	2.41	0.56
2:G:272:PRO:HD3	2:G:301:TRP:CE2	2.40	0.56
1:B:470:GLY:O	1:B:474:ILE:HG13	2.05	0.56
2:I:440:HIS:HD2	2:I:497:ASP:O	1.87	0.56
1:A:1307:PHE:HB3	1:A:1357:CYS:HB3	1.86	0.56
2:G:1090:ILE:O	2:G:1094:HIS:CD2	2.58	0.56
2:J:138:ARG:HB2	2:J:192:THR:HA	1.87	0.56
2:K:843:TRP:C	2:K:843:TRP:CD1	2.79	0.56
2:J:1897:GLU:HG2	2:J:1901:GLN:NE2	2.21	0.56
2:I:1094:HIS:O	2:I:1098:LEU:HB2	2.06	0.56
1:C:504:GLY:O	1:C:926:SER:HB2	2.06	0.56
2:J:861:MET:HB2	2:J:863:GLU:HG2	1.87	0.56
1:C:1510:TRP:HZ3	1:C:1642:LEU:HA	1.70	0.56
1:E:911:LEU:O	1:E:915:MET:HG3	2.06	0.56
1:D:571:LYS:O	1:D:575:ARG:HG2	2.05	0.56
2:H:1880:ASN:HB3	2:H:1881:TYR:CD1	2.40	0.56
2:G:616:ASP:N	2:G:616:ASP:OD1	2.37	0.56
2:L:1818:PHE:HE2	2:L:1822:ARG:HH12	1.52	0.56
2:I:532:LYS:HD3	2:I:537:VAL:HG21	1.88	0.56
2:I:1607:THR:HB	2:I:1643:VAL:O	2.06	0.56
2:I:735:PRO:HA	2:I:773:ASN:OD1	2.06	0.56
2:I:261:TYR:CD1	2:I:295:ILE:HG12	2.41	0.56
1:D:88:ILE:HG21	2:J:1821:MET:CE	2.35	0.56
2:H:859:SER:CB	2:H:863:GLU:HG3	2.36	0.56
2:G:1207:THR:O	2:G:1215:THR:HA	2.05	0.56
1:B:1443:LEU:HD22	1:B:1474:ILE:HD11	1.88	0.56
2:H:613:VAL:HG23	2:H:635:TYR:CE1	2.41	0.56
2:K:1181:PHE:CD1	2:K:1191:PRO:HD2	2.40	0.56
1:C:673:LEU:O	1:C:678:ALA:HB3	2.06	0.56
1:F:1100:VAL:HG21	1:F:1150:ILE:CD1	2.36	0.56
2:H:1678:VAL:O	2:H:1679:LEU:HD23	2.06	0.56
1:C:498:THR:HG21	1:C:858:LEU:CA	2.31	0.56
2:J:489:GLU:O	2:J:493:MET:HG3	2.05	0.56
2:I:2054:TYR:HA	2:I:2057:GLU:OE1	2.05	0.56
2:J:1420:LYS:HG2	2:J:1425:PRO:CA	2.35	0.56
2:H:1764:MET:HB3	2:H:1780:ILE:CD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:570:TYR:CE1	1:C:574:ILE:HD11	2.41	0.56
2:J:1342:PHE:HE2	2:J:1391:VAL:CG2	2.19	0.56
2:L:1421:ARG:O	2:L:1421:ARG:HG2	2.04	0.56
2:H:197:VAL:HG21	2:H:263:ILE:HD11	1.87	0.56
1:E:1207:TYR:CE2	1:E:1682:LYS:HD2	2.41	0.56
2:K:35:PHE:HZ	2:K:104:LEU:HB3	1.70	0.56
1:A:714:PHE:CE1	1:A:725:LEU:HD12	2.41	0.56
2:H:170:TYR:CE2	2:H:507:PHE:HB3	2.40	0.56
2:I:768:ILE:O	2:I:774:ILE:HD12	2.05	0.56
2:I:2073:ASN:O	2:I:2076:LYS:HB3	2.05	0.56
1:A:12:THR:O	1:A:16:GLU:HG2	2.06	0.56
2:L:1176:PHE:CE1	2:L:1192:LEU:HD13	2.41	0.56
1:A:1534:GLU:HG2	1:A:1625:PHE:CE1	2.40	0.56
2:I:1142:ILE:HG13	2:I:1209:PRO:CG	2.36	0.56
2:I:611:THR:HG21	2:I:817:MET:HE2	1.88	0.56
1:B:1254:PHE:HB2	1:B:1257:THR:OG1	2.06	0.56
2:I:350:MET:HG3	2:I:435:ILE:HB	1.88	0.56
1:A:755:GLU:HB2	1:A:757:ASP:HB2	1.88	0.56
2:H:1142:ILE:HG13	2:H:1209:PRO:CG	2.35	0.56
2:I:1729:ASN:O	2:I:1757:ILE:HG23	2.06	0.56
1:B:948:HIS:O	1:B:952:TYR:HD2	1.89	0.56
2:L:992:ALA:O	2:L:995:ARG:HB3	2.05	0.56
1:D:1330:GLU:OE2	1:D:1342:ARG:NH2	2.39	0.56
2:L:917:ARG:HD3	2:L:937:ARG:CZ	2.36	0.56
2:K:595:SER:HB3	2:K:602:PRO:CD	2.35	0.56
1:E:628:TYR:CD1	1:E:628:TYR:C	2.78	0.56
1:A:989:ASN:H	1:A:1491:ASN:ND2	1.94	0.56
1:F:628:TYR:CD1	1:F:628:TYR:C	2.79	0.56
2:J:582:LYS:HG3	2:J:1110:VAL:HG11	1.87	0.56
2:L:1061:VAL:CG1	2:L:1066:ILE:HD11	2.36	0.56
2:H:1497:ARG:O	2:H:1505:SER:HB3	2.05	0.56
2:H:1991:ARG:HG3	2:H:1996:ILE:HG12	1.88	0.56
1:B:983:GLN:HB3	1:B:1418:ILE:HG21	1.86	0.56
2:J:1370:LEU:HA	2:J:1435:TYR:CE2	2.41	0.56
2:K:1903:VAL:O	2:K:1907:ILE:HG13	2.05	0.56
2:G:914:TRP:HE1	2:G:916:GLY:HA3	1.69	0.56
2:H:1709:TYR:HD2	2:H:1709:TYR:C	2.08	0.56
2:I:1393:ASP:HB3	2:I:1395:LEU:HD21	1.87	0.56
2:J:843:TRP:C	2:J:843:TRP:CD1	2.78	0.56
1:C:1386:THR:HB	1:F:1269:SER:O	2.05	0.56
1:C:1337:PRO:HA	1:C:1340:MET:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:756:ASP:HA	2:K:843:TRP:HH2	1.71	0.56
2:G:197:VAL:HG12	2:G:201:ILE:HG13	1.87	0.56
2:G:1653:LEU:CD2	2:G:1667:VAL:HG13	2.36	0.56
1:E:1081:ILE:HA	1:E:1163:GLN:NE2	2.19	0.56
2:K:1944:ASN:HA	2:K:1993:PHE:HD2	1.71	0.56
2:H:350:MET:HG3	2:H:435:ILE:HB	1.88	0.56
2:I:1207:THR:O	2:I:1215:THR:HA	2.06	0.56
1:C:847:THR:OG1	1:C:876:MET:HG3	2.06	0.56
1:F:967:PHE:CD2	1:F:1374:PRO:HG3	2.41	0.56
1:E:1367:LEU:HD22	1:E:1371:MET:HG3	1.88	0.56
2:K:1946:LEU:HB3	2:K:1951:ILE:HD11	1.88	0.56
1:C:1420:TYR:OH	1:F:1473:HIS:HE1	1.88	0.56
1:A:1153:ALA:O	1:E:1121:ARG:NH1	2.39	0.56
2:I:1897:GLU:HG2	2:I:1901:GLN:HE21	1.71	0.56
2:L:120:HIS:HD2	2:L:137:VAL:HG21	1.68	0.56
1:F:421:ARG:HH22	1:F:1613:LYS:HB3	1.71	0.56
2:K:1362:PHE:N	2:K:1363:PRO:HD2	2.21	0.56
1:C:1207:TYR:CZ	1:C:1682:LYS:HD2	2.41	0.56
2:G:663:ILE:H	2:G:663:ILE:CD1	2.14	0.56
2:J:911:GLN:HG3	2:J:1064:THR:HA	1.87	0.56
1:B:1005:TRP:HE1	1:B:1561:LEU:HD22	1.66	0.56
2:I:1637:VAL:HG11	2:I:1679:LEU:HD22	1.88	0.56
2:H:1265:TYR:O	2:H:1267:PRO:HD3	2.05	0.56
2:I:1009:ASN:O	2:I:1013:VAL:HG23	2.05	0.56
2:K:604:MET:HE1	2:K:811:MET:HB2	1.87	0.56
2:J:1880:ASN:HB3	2:J:1881:TYR:CD1	2.40	0.56
2:J:1918:VAL:CG1	2:J:2006:HIS:HB2	2.33	0.56
2:J:2062:THR:HG22	2:J:2063:GLY:N	2.21	0.56
2:K:1436:ARG:HH22	2:K:1602:LEU:HD13	1.70	0.56
2:I:1445:THR:CG2	2:I:1498:PHE:HB2	2.36	0.56
2:I:914:TRP:HE1	2:I:916:GLY:HA3	1.71	0.56
1:A:498:THR:HG21	1:A:858:LEU:CA	2.34	0.56
2:L:745:GLY:HA3	2:L:757:PHE:HB3	1.87	0.56
2:G:1918:VAL:HG22	2:G:2006:HIS:O	2.06	0.56
1:B:673:LEU:O	1:B:678:ALA:HB3	2.06	0.56
2:H:298:ALA:HB2	2:H:304:PHE:HA	1.88	0.56
2:H:745:GLY:HA3	2:H:757:PHE:HB3	1.86	0.56
2:J:745:GLY:HA3	2:J:757:PHE:HB3	1.86	0.56
1:F:1032:MET:HE3	1:F:1165:PRO:HB3	1.86	0.56
2:L:699:ILE:HD12	2:L:699:ILE:N	2.19	0.56
1:F:1425:LEU:HD21	1:F:1429:ARG:NH2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1383:VAL:HG23	2:K:1428:TYR:CE1	2.40	0.56
2:L:1356:ALA:CB	2:L:1397:THR:HG22	2.35	0.56
2:G:1517:LEU:HG	2:G:1523:ILE:HD11	1.86	0.56
2:L:875:PHE:O	2:L:878:GLU:HB2	2.06	0.56
2:G:57:PRO:CG	2:G:68:GLU:HG3	2.36	0.56
2:H:1944:ASN:HA	2:H:1993:PHE:HD2	1.70	0.56
2:L:1234:ILE:HG12	2:L:1244:LEU:HD13	1.87	0.56
1:E:828:TRP:HE1	1:E:838:THR:HA	1.71	0.56
2:K:589:PHE:CD1	2:K:1116:PHE:CD2	2.94	0.56
1:D:1120:LYS:HD3	1:D:1129:ILE:HG12	1.87	0.56
1:C:421:ARG:HH22	1:C:1613:LYS:HB3	1.71	0.56
1:A:88:ILE:HG21	2:G:1821:MET:CE	2.36	0.56
2:H:1813:MET:HG3	2:H:1814:GLU:N	2.21	0.56
1:C:1017:TYR:HD1	1:C:1017:TYR:N	2.04	0.56
2:L:228:LEU:O	2:L:232:HIS:HD2	1.88	0.56
1:C:1443:LEU:HD11	1:C:1470:ARG:HD2	1.88	0.56
1:D:613:PRO:O	1:D:615:LEU:N	2.37	0.56
1:A:1700:GLN:O	1:A:1702:ARG:HG3	2.06	0.56
1:F:527:ALA:HB2	1:F:637:LEU:HD22	1.86	0.56
2:K:1445:THR:HG23	2:K:1498:PHE:HB2	1.87	0.56
1:A:1565:PRO:O	1:A:1567:GLY:N	2.38	0.56
2:J:1701:GLU:H	2:J:1704:MET:HE3	1.70	0.56
2:H:914:TRP:HE1	2:H:916:GLY:HA3	1.71	0.56
2:H:590:VAL:HG23	2:H:1091:HIS:CD2	2.41	0.56
2:K:1846:ALA:HB3	2:K:1847:LEU:HD12	1.87	0.56
1:E:22:PHE:O	2:K:2006:HIS:HA	2.06	0.56
1:D:1307:PHE:HB3	1:D:1357:CYS:CB	2.36	0.56
2:H:197:VAL:HG12	2:H:201:ILE:HG13	1.87	0.56
2:L:1342:PHE:HE2	2:L:1391:VAL:CG2	2.19	0.56
2:I:1090:ILE:O	2:I:1094:HIS:CD2	2.58	0.56
2:I:785:SER:HA	2:I:788:THR:HB	1.88	0.56
2:I:83:VAL:O	2:I:87:VAL:HG23	2.05	0.56
2:H:1517:LEU:HG	2:H:1523:ILE:HD11	1.88	0.56
2:I:1554:PRO:HG3	2:I:1659:ILE:HD11	1.88	0.56
1:C:948:HIS:O	1:C:952:TYR:HD2	1.89	0.56
2:L:1309:PHE:CE2	2:L:1360:PRO:HA	2.41	0.56
2:I:731:ALA:HA	2:I:739:ILE:HD13	1.88	0.56
2:L:505:THR:HG22	2:L:505:THR:O	2.06	0.56
1:C:1483:ALA:HA	1:C:1486:GLN:HE21	1.70	0.56
2:H:1574:PRO:HD3	2:H:1611:TYR:CE2	2.41	0.56
1:A:1451:LYS:HE2	1:A:1463:GLU:OE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:663:ILE:H	2:K:663:ILE:CD1	2.13	0.55
2:J:1067:LEU:HB2	4:J:2101:FMN:C7M	2.35	0.55
2:H:818:THR:HG22	2:H:829:LYS:CB	2.35	0.55
2:K:796:TRP:HH2	2:K:805:MET:HE1	1.69	0.55
2:J:605:VAL:CB	2:J:628:ILE:HG13	2.33	0.55
2:J:1637:VAL:HG11	2:J:1679:LEU:HD22	1.88	0.55
2:H:1436:ARG:NH2	2:H:1602:LEU:HD11	2.22	0.55
1:C:13:LEU:HD11	2:I:2058:VAL:HG21	1.88	0.55
2:J:1086:ILE:O	2:J:1090:ILE:HG13	2.06	0.55
2:G:1851:MET:HE2	2:G:1855:SER:HB3	1.87	0.55
1:A:1118:GLU:OE2	1:E:1154:LEU:HD21	2.05	0.55
2:I:1061:VAL:CG1	2:I:1066:ILE:HD11	2.36	0.55
2:G:867:LYS:HD3	2:G:1065:CYS:SG	2.46	0.55
2:H:1083:ILE:O	2:H:1086:ILE:HG13	2.06	0.55
2:H:820:LYS:HG3	2:H:821:GLU:HG2	1.88	0.55
2:L:1411:LYS:HE3	2:L:1441:ASP:OD2	2.06	0.55
2:H:21:LEU:HA	2:H:37:VAL:O	2.05	0.55
2:L:1090:ILE:O	2:L:1094:HIS:CD2	2.59	0.55
2:G:1721:ARG:HH21	2:G:1853:ILE:HD12	1.70	0.55
2:G:329:THR:HG22	2:H:1331:THR:O	2.05	0.55
2:L:152:LYS:HB2	2:L:154:TYR:CE1	2.41	0.55
1:A:1078:ILE:HG23	1:A:1352:MET:HE3	1.88	0.55
2:H:1114:GLU:HB3	2:H:1169:TYR:HB3	1.88	0.55
2:H:1966:ARG:O	2:H:1970:VAL:HG23	2.05	0.55
2:G:859:SER:HB3	2:G:863:GLU:HG3	1.87	0.55
1:D:959:PRO:HG2	2:J:974:GLU:HG3	1.88	0.55
1:B:421:ARG:HH22	1:B:1613:LYS:HB3	1.70	0.55
1:D:1260:ALA:O	1:D:1264:MET:HG3	2.06	0.55
1:A:1448:ALA:HA	1:A:1451:LYS:CE	2.34	0.55
1:A:1447:VAL:CG2	1:A:1467:LEU:HD21	2.35	0.55
2:K:656:ARG:NH1	2:K:656:ARG:HG2	2.21	0.55
2:L:462:ALA:N	2:L:483:ASP:HA	2.21	0.55
2:H:289:ILE:HG12	2:H:493:MET:CE	2.35	0.55
2:L:618:VAL:HG11	2:L:648:ILE:HD11	1.87	0.55
2:I:1046:SER:O	2:I:1049:GLN:HG3	2.06	0.55
2:K:172:ILE:HG22	2:K:514:VAL:O	2.07	0.55
1:B:1672:GLY:HA3	1:B:1678:LEU:CD2	2.29	0.55
2:H:930:THR:CG2	2:H:933:GLU:HG3	2.35	0.55
2:L:1009:ASN:O	2:L:1013:VAL:HG23	2.07	0.55
2:G:1048:TRP:CD2	2:G:1049:GLN:HG2	2.39	0.55
2:G:524:ILE:HA	2:G:527:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1265:TYR:O	2:J:1267:PRO:HD3	2.05	0.55
2:G:1374:VAL:CG2	2:G:1436:ARG:HE	2.20	0.55
1:C:1491:ASN:HD22	1:C:1491:ASN:H	1.54	0.55
1:D:498:THR:HG21	1:D:858:LEU:CA	2.34	0.55
2:L:914:TRP:HE1	2:L:916:GLY:HA3	1.72	0.55
2:K:1764:MET:HG3	2:K:1781:PHE:CE1	2.41	0.55
1:A:452:ILE:HD12	1:A:467:LYS:HA	1.87	0.55
2:G:590:VAL:HG23	2:G:1091:HIS:CD2	2.42	0.55
1:B:501:ASP:OD2	1:B:503:ARG:HB2	2.07	0.55
1:D:1307:PHE:HA	1:D:1568:ALA:HB2	1.89	0.55
2:K:1897:GLU:HG2	2:K:1901:GLN:NE2	2.22	0.55
1:B:1168:TRP:NE1	1:B:1173:TYR:HE1	2.04	0.55
1:D:399:TYR:OH	1:D:692:THR:HG23	2.06	0.55
2:K:952:ASP:OD1	2:K:953:PRO:HD2	2.06	0.55
1:C:1532:LYS:HE2	1:C:1598:VAL:HG11	1.88	0.55
2:I:102:LEU:O	2:I:106:LEU:HG	2.06	0.55
2:J:372:LEU:HD11	2:J:397:SER:HB2	1.88	0.55
2:I:372:LEU:HD11	2:I:397:SER:HB2	1.88	0.55
2:H:460:ILE:O	2:H:486:ILE:HB	2.07	0.55
1:C:1700:GLN:O	1:C:1702:ARG:HG3	2.06	0.55
1:D:628:TYR:OH	1:D:630:LYS:HE2	2.06	0.55
2:L:1181:PHE:CD1	2:L:1191:PRO:HD2	2.41	0.55
1:C:535:TYR:OH	1:C:630:LYS:HE3	2.06	0.55
2:H:825:SER:CB	2:H:1053:ILE:HG13	2.35	0.55
2:K:251:PRO:HG3	2:K:316:PHE:CA	2.36	0.55
1:E:40:ARG:HH21	1:E:72:THR:HG22	1.71	0.55
2:H:43:PHE:CZ	2:I:42:HIS:NE2	2.74	0.55
2:J:451:ILE:O	2:J:455:VAL:HG23	2.06	0.55
2:L:1890:ARG:HB3	2:L:1994:ALA:HB2	1.88	0.55
1:B:985:ARG:HB3	1:B:1422:ARG:HH22	1.71	0.55
2:H:1074:LYS:HE3	2:H:1075:TYR:CE1	2.38	0.55
2:G:1411:LYS:HE3	2:G:1441:ASP:OD2	2.07	0.55
1:C:1307:PHE:HB3	1:C:1357:CYS:HB2	1.88	0.55
2:L:2019:SER:HA	2:L:2022:LEU:HD12	1.87	0.55
2:I:1342:PHE:HE2	2:I:1391:VAL:CG2	2.20	0.55
2:J:1171:TRP:CE3	2:J:1236:LEU:HD22	2.41	0.55
1:D:888:ILE:HA	1:D:891:LEU:HD12	1.88	0.55
2:I:26:LEU:O	2:I:32:GLU:HA	2.06	0.55
1:C:336:PHE:O	1:C:339:GLN:HB2	2.05	0.55
1:C:716:GLN:HB3	1:C:769:ILE:HG23	1.87	0.55
2:J:57:PRO:CG	2:J:68:GLU:HG3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:861:MET:HB2	2:H:863:GLU:HG2	1.89	0.55
2:K:1566:LYS:O	2:K:1568:PRO:HD3	2.06	0.55
2:I:119:VAL:HG21	2:I:140:TYR:CD2	2.41	0.55
2:I:1248:GLU:OE1	2:I:1248:GLU:HA	2.06	0.55
1:D:875:GLU:O	1:D:878:PHE:HB3	2.06	0.55
2:H:611:THR:HG21	2:H:817:MET:HE2	1.87	0.55
2:I:1885:ALA:HB2	2:I:1998:LEU:HD21	1.87	0.55
1:B:1095:GLN:O	1:B:1096:LEU:HD23	2.06	0.55
1:F:1267:LEU:HD11	1:F:1303:LEU:HD12	1.88	0.55
2:K:1334:ALA:HA	2:K:1341:ASP:HB2	1.89	0.55
2:H:261:TYR:CD1	2:H:295:ILE:HG12	2.41	0.55
2:H:462:ALA:N	2:H:483:ASP:HA	2.21	0.55
1:E:558:LEU:HB2	1:E:563:GLN:CG	2.34	0.55
2:J:1194:ARG:NH1	2:J:1194:ARG:CG	2.51	0.55
2:L:928:ASP:HA	2:L:1007:LEU:HD23	1.89	0.55
1:C:628:TYR:OH	1:C:630:LYS:HG2	2.07	0.55
2:J:928:ASP:HA	2:J:1007:LEU:HD23	1.88	0.55
1:C:1672:GLY:HA3	1:C:1678:LEU:CD2	2.33	0.55
2:L:1288:PHE:CE2	2:L:1292:VAL:HG21	2.41	0.55
2:L:1445:THR:CG2	2:L:1498:PHE:HB2	2.37	0.55
1:D:868:VAL:CG1	1:D:908:ILE:HD11	2.35	0.55
1:B:498:THR:HG21	1:B:858:LEU:CA	2.35	0.55
1:E:1363:MET:HE1	1:E:1373:VAL:CG2	2.34	0.55
2:J:1709:TYR:C	2:J:1709:TYR:CD2	2.78	0.55
2:I:1420:LYS:HG2	2:I:1425:PRO:CA	2.35	0.55
2:K:1709:TYR:CD2	2:K:1709:TYR:C	2.79	0.55
2:I:1918:VAL:HG13	2:I:2006:HIS:CB	2.37	0.55
2:L:1764:MET:HB3	2:L:1780:ILE:CD1	2.37	0.55
2:G:604:MET:HE1	2:G:811:MET:HB2	1.89	0.55
1:A:1183:VAL:HG13	1:A:1252:GLU:OE1	2.07	0.55
2:J:1383:VAL:HG23	2:J:1428:TYR:CE1	2.39	0.55
1:E:987:MET:O	1:E:1490:GLY:HA3	2.07	0.55
1:F:843:VAL:HG22	1:F:843:VAL:O	2.05	0.55
1:C:1317:GLU:HB3	1:F:1250:LEU:HD22	1.89	0.55
2:I:349:PRO:O	2:I:392:THR:HG22	2.05	0.55
2:I:1028:VAL:HG13	2:I:1030:PHE:CD2	2.42	0.55
1:A:1164:ILE:HD12	1:A:1355:GLN:HG3	1.87	0.55
2:L:529:ASN:HD22	2:L:552:VAL:HG23	1.72	0.55
1:E:1113:LYS:HG3	1:E:1138:TYR:CE2	2.41	0.55
2:I:1574:PRO:HD3	2:I:1611:TYR:CE2	2.42	0.55
2:G:102:LEU:O	2:G:106:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1323:ALA:HB1	1:E:1351:PHE:HE2	1.71	0.55
1:B:1001:GLU:HG2	1:B:1008:ALA:HB2	1.89	0.55
2:L:1224:GLN:HA	2:L:1224:GLN:OE1	2.07	0.55
2:K:532:LYS:HD3	2:K:537:VAL:HG21	1.87	0.55
1:B:1495:ARG:HG2	1:B:1495:ARG:HH11	1.71	0.55
2:J:261:TYR:CD1	2:J:295:ILE:HG12	2.42	0.55
2:H:120:HIS:HD2	2:H:137:VAL:HG21	1.70	0.55
1:E:1447:VAL:CG2	1:E:1467:LEU:HD21	2.32	0.55
1:B:1330:GLU:HG2	1:B:1333:ARG:NH1	2.22	0.55
2:K:609:THR:CG2	2:K:633:GLY:HA3	2.36	0.55
1:F:1330:GLU:OE2	1:F:1342:ARG:NH2	2.39	0.55
2:I:1436:ARG:NH2	2:I:1602:LEU:HD11	2.22	0.55
2:H:1637:VAL:CG1	2:H:1679:LEU:HD22	2.37	0.55
1:C:1499:ARG:CD	1:F:1476:ARG:HH12	2.11	0.55
1:B:868:VAL:HG11	1:B:908:ILE:CD1	2.35	0.55
2:J:2062:THR:HG22	2:J:2064:SER:N	2.20	0.55
2:G:818:THR:HG22	2:G:829:LYS:CB	2.32	0.55
2:J:290:VAL:HG13	2:J:314:LEU:HD23	1.87	0.55
2:I:462:ALA:HB2	2:I:481:LEU:HB2	1.88	0.55
1:C:527:ALA:HB2	1:C:637:LEU:HD22	1.89	0.55
2:I:745:GLY:HA3	2:I:757:PHE:HB3	1.88	0.55
1:B:1213:VAL:HG13	1:B:1217:GLU:HB2	1.89	0.55
2:I:590:VAL:HG23	2:I:1091:HIS:CD2	2.41	0.55
2:H:24:LEU:HD12	2:H:37:VAL:CG2	2.36	0.55
2:L:378:ILE:HD11	2:L:398:LEU:HA	1.89	0.55
2:K:186:LEU:HD21	2:K:256:VAL:HG22	1.88	0.55
2:J:1338:ARG:HH21	2:L:327:PRO:CD	2.19	0.55
2:I:57:PRO:CG	2:I:68:GLU:HG3	2.37	0.55
2:H:57:PRO:CG	2:H:68:GLU:HG3	2.37	0.55
2:L:411:PRO:HD2	2:L:414:LEU:CD1	2.36	0.55
1:D:1207:TYR:CZ	1:D:1682:LYS:HD2	2.41	0.55
1:F:1120:LYS:HD3	1:F:1129:ILE:HG12	1.88	0.55
2:L:776:LEU:HG	2:L:807:PHE:CE2	2.42	0.55
1:A:1086:PHE:CE2	1:A:1310:PHE:HD2	2.25	0.55
1:B:1451:LYS:HA	1:B:1454:ARG:NH2	2.20	0.55
2:L:917:ARG:HG2	2:L:917:ARG:HH11	1.65	0.55
2:K:465:LEU:HB2	2:K:479:ARG:HG3	1.89	0.55
2:H:1445:THR:HG23	2:H:1498:PHE:HB2	1.87	0.55
2:G:462:ALA:N	2:G:483:ASP:HA	2.21	0.55
2:G:1445:THR:HG23	2:G:1498:PHE:HB2	1.89	0.55
2:J:462:ALA:N	2:J:483:ASP:HA	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1363:MET:HE3	1:E:1368:ALA:HB2	1.88	0.55
2:J:1393:ASP:HB3	2:J:1395:LEU:HD21	1.88	0.55
2:H:361:VAL:O	2:H:365:ILE:HG13	2.07	0.55
2:K:1324:PHE:N	2:K:1583:VAL:HG11	2.22	0.55
1:E:1129:ILE:HA	1:E:1139:THR:O	2.07	0.55
2:G:1593:SER:OG	2:G:1596:PHE:HB2	2.07	0.55
1:D:768:ARG:HA	1:D:772:THR:OG1	2.07	0.55
1:C:1164:ILE:HD12	1:C:1355:GLN:HG3	1.88	0.55
2:J:1982:ALA:O	2:J:1984:PRO:HD3	2.07	0.55
2:H:935:VAL:HG11	2:H:997:LEU:HD21	1.88	0.55
1:F:1113:LYS:HG3	1:F:1138:TYR:CE2	2.41	0.55
1:F:565:GLN:HG2	1:F:565:GLN:O	2.07	0.55
2:J:1913:TRP:HZ3	2:J:1938:THR:HG21	1.72	0.55
2:L:315:LEU:HA	2:L:318:ILE:HD12	1.89	0.55
2:H:462:ALA:H	2:H:483:ASP:HA	1.72	0.55
2:J:1873:ARG:NH1	2:J:2002:ASP:HB3	2.22	0.55
2:K:931:TYR:O	2:K:935:VAL:HG12	2.06	0.55
2:J:1181:PHE:CD1	2:J:1191:PRO:HD2	2.42	0.55
2:K:486:ILE:HG23	2:K:490:LEU:HG	1.89	0.55
2:I:930:THR:CG2	2:I:933:GLU:HG3	2.37	0.55
1:D:965:TYR:OH	1:D:1199:LEU:HD22	2.06	0.55
1:B:1494:TRP:CG	1:B:1505:GLY:HA3	2.42	0.55
2:I:783:GLY:HA3	2:I:1075:TYR:CB	2.37	0.55
2:G:268:LEU:HD12	2:G:275:LEU:HD11	1.89	0.55
2:K:1468:ARG:NH1	2:K:1475:LEU:HD22	2.22	0.55
2:J:388:ASN:HD22	2:J:388:ASN:C	2.09	0.55
2:K:271:GLU:H	2:K:274:GLU:HG3	1.71	0.55
2:I:843:TRP:CD1	2:I:843:TRP:C	2.79	0.55
2:G:21:LEU:HD22	2:G:36:LEU:HG	1.87	0.55
2:G:35:PHE:HD2	2:G:37:VAL:HG22	1.72	0.55
2:L:26:LEU:O	2:L:32:GLU:HA	2.07	0.55
1:C:1606:VAL:O	1:C:1608:PRO:HD3	2.06	0.55
2:G:1903:VAL:O	2:G:1907:ILE:HG13	2.05	0.55
2:H:1885:ALA:HB2	2:H:1998:LEU:HD21	1.88	0.55
1:B:1160:VAL:C	1:B:1352:MET:HE1	2.27	0.55
2:G:261:TYR:CD1	2:G:295:ILE:HG12	2.40	0.55
1:B:36:LEU:HD22	1:B:61:LEU:HD21	1.89	0.55
2:H:1015:HIS:NE2	2:H:1019:LEU:HD11	2.21	0.55
2:K:1982:ALA:O	2:K:1984:PRO:HD3	2.07	0.55
1:C:1473:HIS:HE1	1:F:1420:TYR:OH	1.90	0.55
2:J:1566:LYS:O	2:J:1568:PRO:HD3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1447:VAL:CG2	1:F:1467:LEU:HD21	2.35	0.55
1:F:427:ARG:HH12	1:F:492:ILE:CG2	2.04	0.55
2:J:272:PRO:HD3	2:J:301:TRP:CE2	2.42	0.55
2:G:1061:VAL:CG1	2:G:1066:ILE:HD11	2.37	0.55
2:L:1410:GLY:HA3	2:L:1436:ARG:HA	1.89	0.55
1:A:1004:PRO:HD3	1:A:1572:TRP:CH2	2.42	0.55
1:B:1580:VAL:O	1:B:1617:ILE:HD11	2.07	0.55
1:E:1032:MET:HE2	1:E:1165:PRO:HB3	1.88	0.55
2:J:604:MET:HE1	2:J:811:MET:HB2	1.89	0.55
2:J:1845:VAL:CG2	2:J:1856:LEU:HD22	2.37	0.55
2:K:1805:PHE:O	2:K:1808:PRO:HD2	2.06	0.55
2:H:1610:MET:HA	2:H:1610:MET:CE	2.37	0.55
1:F:1386:THR:HG22	1:F:1629:GLN:HE21	1.71	0.55
1:E:1640:LYS:HG3	1:E:1641:TYR:N	2.22	0.55
1:D:401:SER:O	1:D:405:TRP:CD1	2.60	0.55
1:A:11:TYR:O	1:A:15:VAL:HG23	2.06	0.55
2:L:1083:ILE:O	2:L:1086:ILE:HG13	2.06	0.55
1:E:1337:PRO:HA	1:E:1340:MET:HG3	1.89	0.55
2:L:256:VAL:O	2:L:260:HIS:CD2	2.60	0.55
2:L:197:VAL:HA	2:L:262:MET:HE1	1.89	0.55
2:I:789:TYR:CE1	2:I:1097:PHE:HB3	2.41	0.55
2:J:349:PRO:O	2:J:392:THR:HG22	2.07	0.55
2:L:350:MET:HG3	2:L:435:ILE:HB	1.87	0.55
2:H:859:SER:HB3	2:H:863:GLU:HG3	1.89	0.55
2:L:778:ALA:HB2	2:L:807:PHE:CD2	2.42	0.55
1:F:350:ASP:HB3	1:F:353:ALA:HB2	1.87	0.55
1:E:716:GLN:HB3	1:E:769:ILE:HG23	1.88	0.55
2:J:778:ALA:HB2	2:J:807:PHE:CD2	2.42	0.55
1:C:526:MET:HE3	1:C:614:PHE:HB2	1.87	0.55
2:I:1818:PHE:HE2	2:I:1822:ARG:HH12	1.53	0.55
2:H:102:LEU:O	2:H:106:LEU:HG	2.07	0.55
2:I:1750:GLY:O	2:I:1755:LYS:HE3	2.06	0.55
2:L:1885:ALA:HB2	2:L:1998:LEU:HD21	1.89	0.55
2:J:1246:LEU:HD11	2:J:1261:PHE:HE1	1.70	0.55
2:L:1180:VAL:HG11	2:L:1187:PHE:CG	2.42	0.55
1:B:799:LEU:HD12	1:B:821:LEU:HB3	1.89	0.55
2:G:942:MET:HE1	2:G:955:LEU:HB3	1.87	0.55
2:L:2054:TYR:HA	2:L:2057:GLU:OE1	2.07	0.55
2:K:1603:PRO:HG2	2:K:1642:MET:HE3	1.88	0.55
2:I:1404:VAL:HG22	2:I:1413:VAL:HG22	1.89	0.55
2:I:1301:PHE:HB3	2:I:1364:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:327:PRO:N	2:K:1338:ARG:NH2	2.55	0.55
2:H:1890:ARG:HB3	2:H:1994:ALA:HB2	1.89	0.55
1:F:759:ILE:HG12	1:F:813:LEU:HD23	1.89	0.55
2:K:1420:LYS:HG2	2:K:1425:PRO:CA	2.37	0.55
2:H:1709:TYR:CD2	2:H:1709:TYR:C	2.80	0.55
1:C:562:SER:HB3	1:D:551:LEU:CD2	2.35	0.55
1:C:1032:MET:HE2	1:C:1165:PRO:HB3	1.87	0.55
2:K:83:VAL:O	2:K:87:VAL:HG23	2.07	0.55
1:E:21:GLN:O	2:K:2006:HIS:HD2	1.90	0.55
2:I:268:LEU:HD12	2:I:275:LEU:HD11	1.89	0.55
1:E:1386:THR:HG22	1:E:1629:GLN:HE21	1.70	0.55
1:A:1640:LYS:HG3	1:A:1641:TYR:HD1	1.70	0.55
2:H:1356:ALA:CB	2:H:1397:THR:HG22	2.37	0.55
2:I:1083:ILE:O	2:I:1086:ILE:HG13	2.06	0.55
2:J:411:PRO:HD2	2:J:414:LEU:CD1	2.37	0.55
2:L:882:LYS:HB3	2:L:898:ARG:NH1	2.22	0.55
2:J:775:VAL:HG12	2:J:777:VAL:HG23	1.89	0.55
1:A:985:ARG:HB3	1:A:1422:ARG:HH22	1.72	0.55
2:L:1457:HIS:ND1	2:L:1487:THR:HG22	2.22	0.55
2:K:1729:ASN:O	2:K:1757:ILE:HG23	2.06	0.55
1:A:1260:ALA:O	1:A:1264:MET:HG3	2.06	0.55
2:I:1335:PHE:CZ	2:I:1629:ILE:HD13	2.42	0.55
2:I:529:ASN:HD22	2:I:552:VAL:CG2	2.19	0.55
2:L:221:TYR:CE2	2:L:225:LEU:HD22	2.42	0.55
2:I:1586:ASP:OD1	2:I:1588:ASN:HB2	2.07	0.55
2:L:486:ILE:HG23	2:L:490:LEU:HG	1.89	0.55
2:H:917:ARG:HD3	2:H:937:ARG:CZ	2.37	0.55
2:I:501:TRP:HE1	2:I:528:THR:CG2	2.14	0.55
1:E:1107:GLU:HG3	1:E:1108:PRO:CD	2.33	0.55
2:K:966:VAL:O	2:K:970:PHE:HD1	1.90	0.55
2:I:2062:THR:HG22	2:I:2064:SER:N	2.22	0.55
2:G:298:ALA:HB2	2:G:304:PHE:HA	1.87	0.55
2:J:1899:ALA:O	2:J:1903:VAL:HG23	2.06	0.55
2:G:1246:LEU:HD11	2:G:1261:PHE:HE1	1.72	0.55
1:E:551:LEU:C	1:E:551:LEU:HD23	2.27	0.55
2:I:1725:HIS:CD2	2:I:1854:GLU:HB3	2.42	0.55
2:G:1175:MET:HE1	2:G:1234:ILE:HG21	1.88	0.55
2:G:378:ILE:HG23	2:G:391:VAL:CG1	2.37	0.55
1:A:1250:LEU:HD22	1:E:1317:GLU:HB3	1.88	0.55
2:G:1517:LEU:HD12	2:G:1521:GLU:HB2	1.89	0.55
2:H:1897:GLU:HG2	2:H:1901:GLN:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1517:LEU:HG	2:K:1523:ILE:HD11	1.88	0.55
1:B:1142:LEU:H	1:B:1142:LEU:HD12	1.72	0.55
2:J:1554:PRO:HA	2:J:1659:ILE:HG12	1.89	0.55
1:A:1164:ILE:CD1	1:A:1355:GLN:HG3	2.37	0.55
2:G:713:HIS:CD2	2:G:740:ILE:HD13	2.42	0.55
2:I:992:ALA:O	2:I:995:ARG:HB3	2.06	0.55
2:I:776:LEU:HG	2:I:807:PHE:CE2	2.41	0.55
2:J:700:GLU:CD	2:J:700:GLU:H	2.10	0.55
1:F:88:ILE:HG21	2:L:1821:MET:CE	2.37	0.55
2:K:1224:GLN:OE1	2:K:1224:GLN:HA	2.07	0.55
2:G:2073:ASN:O	2:G:2076:LYS:HB3	2.07	0.55
2:L:1248:GLU:HA	2:L:1248:GLU:OE1	2.06	0.55
2:H:1393:ASP:HB3	2:H:1395:LEU:HD21	1.88	0.55
1:D:1547:ARG:HG2	1:D:1604:TYR:HD1	1.71	0.54
2:J:618:VAL:HG11	2:J:648:ILE:HD11	1.89	0.54
2:G:613:VAL:HG23	2:G:635:TYR:CE1	2.42	0.54
2:K:1293:TRP:NE1	2:K:1354:TRP:HZ2	2.05	0.54
1:C:628:TYR:C	1:C:628:TYR:CD1	2.79	0.54
2:G:1616:VAL:HG11	2:G:1679:LEU:CD1	2.33	0.54
2:K:325:ALA:HB2	2:K:447:ALA:HB2	1.88	0.54
1:C:40:ARG:NH2	1:C:72:THR:HG22	2.21	0.54
2:J:750:GLY:O	2:J:865:ILE:HA	2.07	0.54
2:H:2059:HIS:HB2	2:H:2067:ILE:HG21	1.88	0.54
2:I:1442:TYR:CG	2:I:1499:LYS:O	2.60	0.54
1:E:1703:VAL:HG22	1:E:1713:PHE:N	2.22	0.54
1:D:767:HIS:CB	1:D:813:LEU:HD12	2.37	0.54
1:A:1094:LYS:HB3	1:A:1154:LEU:HB2	1.89	0.54
2:K:1878:ARG:HE	2:K:1986:PRO:HG3	1.73	0.54
1:E:24:MET:HB3	2:K:2043:VAL:HG12	1.89	0.54
2:J:1721:ARG:HH21	2:J:1853:ILE:HD12	1.70	0.54
2:L:35:PHE:HD2	2:L:37:VAL:HG22	1.72	0.54
2:J:192:THR:C	2:J:194:PRO:HD3	2.27	0.54
1:A:746:PHE:CD2	3:A:1901:NAP:H4D	2.43	0.54
2:K:379:GLY:O	2:K:391:VAL:HG13	2.07	0.54
2:K:378:ILE:HG23	2:K:391:VAL:CG1	2.37	0.54
2:J:197:VAL:HG21	2:J:263:ILE:HD11	1.88	0.54
2:K:1481:ILE:HD12	2:K:1515:LEU:HD23	1.88	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:CD2	2.42	0.54
1:D:36:LEU:HD22	1:D:61:LEU:HD21	1.89	0.54
1:E:875:GLU:O	1:E:878:PHE:HB3	2.06	0.54
2:L:126:VAL:HG12	2:L:127:ALA:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:415:TYR:O	1:E:419:PHE:HD1	1.89	0.54
1:C:617:LEU:N	1:C:617:LEU:HD23	2.21	0.54
1:F:1068:TYR:O	1:F:1072:ILE:HG13	2.08	0.54
2:L:1344:ALA:N	2:L:1389:LEU:O	2.36	0.54
1:D:1447:VAL:CG2	1:D:1467:LEU:HD21	2.34	0.54
2:K:285:HIS:HD2	2:K:501:TRP:CE3	2.24	0.54
2:L:285:HIS:HD2	2:L:501:TRP:CE3	2.24	0.54
2:H:1028:VAL:HG13	2:H:1030:PHE:CD2	2.43	0.54
2:J:762:LEU:HD11	2:J:800:PHE:CD2	2.42	0.54
2:I:1181:PHE:CD1	2:I:1191:PRO:HD2	2.42	0.54
2:G:172:ILE:HG22	2:G:514:VAL:O	2.06	0.54
1:F:673:LEU:O	1:F:678:ALA:HB3	2.07	0.54
2:J:1746:THR:CB	2:J:1792:THR:HG23	2.35	0.54
2:L:1918:VAL:HG13	2:L:2006:HIS:CB	2.33	0.54
1:F:498:THR:HG21	1:F:858:LEU:CA	2.37	0.54
2:I:1026:LYS:HE2	2:I:1045:ASP:OD2	2.08	0.54
2:H:857:VAL:HG13	2:H:876:TRP:HE1	1.72	0.54
2:G:83:VAL:O	2:G:87:VAL:HG23	2.08	0.54
2:K:192:THR:C	2:K:194:PRO:HD3	2.27	0.54
2:L:1804:GLN:HB3	2:L:1861:PHE:CE1	2.43	0.54
2:L:785:SER:HA	2:L:788:THR:HB	1.87	0.54
2:K:1574:PRO:HD3	2:K:1611:TYR:CE2	2.43	0.54
2:K:361:VAL:O	2:K:365:ILE:HG13	2.07	0.54
2:H:92:GLU:HB3	2:H:95:HIS:NE2	2.21	0.54
1:F:983:GLN:HB3	1:F:1418:ILE:HG21	1.88	0.54
2:H:451:ILE:O	2:H:455:VAL:HG23	2.06	0.54
2:L:1897:GLU:HG2	2:L:1901:GLN:NE2	2.23	0.54
2:H:611:THR:HA	2:H:1051:GLU:OE2	2.06	0.54
1:E:1113:LYS:O	1:E:1117:GLU:HG3	2.07	0.54
1:E:415:TYR:CD2	1:E:1614:THR:HA	2.42	0.54
2:H:888:ARG:O	2:H:891:ARG:HB2	2.07	0.54
1:A:1267:LEU:HD11	1:A:1303:LEU:HD12	1.87	0.54
2:J:882:LYS:HB3	2:J:898:ARG:HH12	1.73	0.54
2:I:1457:HIS:ND1	2:I:1487:THR:HG22	2.23	0.54
2:L:1607:THR:HB	2:L:1643:VAL:O	2.07	0.54
1:D:1686:PRO:HB2	1:D:1713:PHE:CD1	2.42	0.54
2:K:719:GLY:O	2:K:755:GLU:HG3	2.08	0.54
1:A:1697:LEU:HD21	1:E:1401:LEU:HD22	1.88	0.54
1:F:1534:GLU:HG2	1:F:1625:PHE:CE1	2.43	0.54
1:F:427:ARG:HG3	1:F:492:ILE:HG12	1.89	0.54
1:F:1079:ARG:NH1	1:F:1079:ARG:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:653:PRO:O	2:G:656:ARG:HB2	2.07	0.54
2:K:159:PHE:HA	2:K:162:ALA:HB3	1.89	0.54
2:L:938:MET:HE2	2:L:959:THR:HG22	1.90	0.54
1:A:613:PRO:O	1:A:615:LEU:N	2.35	0.54
2:K:272:PRO:HD3	2:K:301:TRP:CE2	2.43	0.54
1:F:526:MET:HE3	1:F:614:PHE:HB2	1.89	0.54
2:I:582:LYS:HG3	2:I:1110:VAL:HG11	1.88	0.54
2:K:1053:ILE:HD11	2:K:1061:VAL:HG13	1.88	0.54
2:K:783:GLY:HA3	2:K:1075:TYR:CB	2.34	0.54
2:J:465:LEU:HB2	2:J:479:ARG:HG3	1.90	0.54
2:G:837:GLY:HA3	2:G:1074:LYS:HG2	1.89	0.54
2:G:783:GLY:HA3	2:G:1075:TYR:CB	2.34	0.54
1:E:1584:GLY:HA2	1:E:1617:ILE:CD1	2.38	0.54
2:H:1299:VAL:HG22	2:H:1301:PHE:CD1	2.43	0.54
1:B:549:TYR:HE1	1:B:567:ASN:HB3	1.73	0.54
2:H:1086:ILE:O	2:H:1090:ILE:HG13	2.07	0.54
2:G:745:GLY:HA3	2:G:757:PHE:HB3	1.88	0.54
2:J:876:TRP:C	2:J:876:TRP:CD1	2.81	0.54
1:A:968:PRO:HD2	1:A:1374:PRO:HB3	1.90	0.54
2:K:2019:SER:HA	2:K:2022:LEU:HD12	1.89	0.54
2:H:1554:PRO:HA	2:H:1659:ILE:HG12	1.88	0.54
2:H:1653:LEU:CD2	2:H:1667:VAL:HG13	2.38	0.54
1:C:1401:LEU:HD22	1:F:1697:LEU:HD21	1.89	0.54
1:F:1510:TRP:CZ3	1:F:1642:LEU:HA	2.42	0.54
2:L:1564:SER:HB2	2:L:1653:LEU:H	1.73	0.54
2:L:1566:LYS:O	2:L:1568:PRO:HD3	2.08	0.54
2:K:762:LEU:HD11	2:K:800:PHE:CD2	2.43	0.54
2:I:422:THR:HG23	2:I:844:GLU:CD	2.28	0.54
2:H:26:LEU:O	2:H:32:GLU:HA	2.08	0.54
2:K:859:SER:CB	2:K:863:GLU:HG3	2.36	0.54
2:I:1377:SER:HB3	2:I:1432:GLN:HB2	1.90	0.54
2:G:1913:TRP:HZ3	2:G:1938:THR:HG21	1.73	0.54
2:J:1885:ALA:HB2	2:J:1998:LEU:HD21	1.89	0.54
1:A:36:LEU:HD22	1:A:61:LEU:HD21	1.90	0.54
1:C:1431:GLN:HG2	1:F:1431:GLN:OE1	2.08	0.54
2:H:251:PRO:HG3	2:H:316:PHE:CA	2.37	0.54
1:A:1211:LYS:HE3	1:A:1711:LEU:HD21	1.89	0.54
1:C:868:VAL:CG1	1:C:908:ILE:HD11	2.33	0.54
1:F:904:GLY:HA2	1:F:906:GLN:OE1	2.08	0.54
2:G:824:THR:HB	2:G:829:LYS:HE3	1.89	0.54
2:J:325:ALA:HB2	2:J:447:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:460:ILE:HD13	2:J:487:ILE:HD11	1.89	0.54
2:I:663:ILE:HG21	3:I:2102:NAP:H1D	1.89	0.54
1:D:1703:VAL:HG12	1:D:1711:LEU:HD22	1.90	0.54
2:G:1411:LYS:O	2:G:1434:LEU:HD12	2.07	0.54
2:J:268:LEU:HD12	2:J:275:LEU:HD11	1.90	0.54
2:L:580:LEU:HD21	2:L:1095:ILE:HA	1.89	0.54
2:L:38:PRO:HG2	2:L:41:LEU:HD12	1.90	0.54
1:A:421:ARG:NH2	1:A:1613:LYS:HB3	2.21	0.54
2:H:152:LYS:HB2	2:H:154:TYR:CE1	2.42	0.54
2:K:617:PHE:CE1	2:K:822:ALA:HB2	2.42	0.54
2:G:35:PHE:CD2	2:G:37:VAL:HG22	2.42	0.54
1:D:88:ILE:HG21	2:J:1821:MET:HE2	1.90	0.54
2:G:1899:ALA:O	2:G:1903:VAL:HG23	2.08	0.54
2:H:1317:ASN:HB3	2:H:1320:ALA:HB3	1.90	0.54
1:C:768:ARG:HA	1:C:772:THR:OG1	2.08	0.54
1:B:1237:LYS:HB2	1:D:1236:TYR:O	2.08	0.54
2:I:228:LEU:O	2:I:232:HIS:HD2	1.90	0.54
2:G:1807:GLN:HB2	2:G:1808:PRO:HD3	1.88	0.54
2:J:70:SER:HB2	2:J:74:GLU:OE2	2.08	0.54
2:J:409:LYS:HB3	2:J:428:PHE:CZ	2.42	0.54
1:B:1532:LYS:HE2	1:B:1598:VAL:HG11	1.89	0.54
2:J:980:LEU:HD22	2:J:986:LEU:HD21	1.89	0.54
2:I:505:THR:HG22	2:I:505:THR:O	2.08	0.54
2:J:1607:THR:HB	2:J:1643:VAL:O	2.06	0.54
1:E:1451:LYS:HA	1:E:1454:ARG:NH2	2.22	0.54
2:I:618:VAL:O	2:I:622:MET:HG3	2.08	0.54
1:D:1100:VAL:HG21	1:D:1150:ILE:HD12	1.89	0.54
2:G:752:HIS:NE2	2:G:856:THR:HG22	2.21	0.54
2:I:1289:TYR:CB	2:I:1370:LEU:HD23	2.38	0.54
2:H:582:LYS:HG3	2:H:1110:VAL:HG11	1.89	0.54
2:L:762:LEU:HD11	2:L:800:PHE:CD2	2.42	0.54
2:J:1918:VAL:HG22	2:J:2006:HIS:O	2.08	0.54
2:I:1873:ARG:NH1	2:I:2002:ASP:HB3	2.23	0.54
2:G:1436:ARG:NH2	2:G:1602:LEU:CD1	2.71	0.54
1:F:905:LEU:HD23	1:F:908:ILE:HD12	1.90	0.54
2:G:1053:ILE:HD11	2:G:1061:VAL:HG13	1.89	0.54
1:C:1565:PRO:O	1:C:1567:GLY:N	2.41	0.54
2:K:1231:THR:CG2	2:K:1595:VAL:HG11	2.37	0.54
2:G:485:ASP:O	2:G:488:PRO:HD2	2.06	0.54
2:L:747:ARG:NH1	2:L:780:SER:O	2.40	0.54
2:J:1701:GLU:H	2:J:1704:MET:CE	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1118:GLU:OE2	1:F:1154:LEU:HD21	2.06	0.54
1:C:1186:VAL:HG23	1:C:1309:ASP:HB2	1.88	0.54
2:L:1878:ARG:HE	2:L:1986:PRO:HG3	1.71	0.54
2:J:186:LEU:CG	2:J:256:VAL:HG22	2.37	0.54
2:H:197:VAL:HA	2:H:262:MET:HE1	1.90	0.54
1:A:1081:ILE:HG13	1:A:1159:LEU:O	2.07	0.54
1:E:746:PHE:HB3	3:E:1901:NAP:H52N	1.89	0.54
1:B:469:LEU:O	1:B:472:GLN:HB3	2.08	0.54
2:I:1947:LYS:HG2	2:I:1993:PHE:CD1	2.42	0.54
2:I:186:LEU:CD2	2:I:256:VAL:HG22	2.38	0.54
1:C:1017:TYR:N	1:C:1017:TYR:CD1	2.75	0.54
2:I:529:ASN:HD22	2:I:552:VAL:HG23	1.72	0.54
2:L:978:SER:O	2:L:981:GLN:HG2	2.08	0.54
1:C:414:TYR:CE2	1:C:418:ILE:HD11	2.43	0.54
2:I:1156:ASP:HB2	2:I:1159:SER:H	1.73	0.54
2:K:1885:ALA:HB2	2:K:1998:LEU:HD21	1.89	0.54
2:K:980:LEU:HD22	2:K:986:LEU:HD21	1.90	0.54
2:I:700:GLU:CD	2:I:700:GLU:H	2.11	0.54
1:D:1186:VAL:HG23	1:D:1309:ASP:HB2	1.90	0.54
1:E:1534:GLU:HG2	1:E:1625:PHE:CE1	2.42	0.54
2:G:1317:ASN:HB3	2:G:1320:ALA:HB3	1.89	0.54
2:L:1335:PHE:CZ	2:L:1629:ILE:HD13	2.42	0.54
1:E:1443:LEU:HD22	1:E:1474:ILE:HD11	1.89	0.54
2:L:251:PRO:HG3	2:L:316:PHE:CA	2.36	0.54
1:F:907:PHE:O	1:F:909:PRO:HD3	2.08	0.54
2:J:825:SER:HB2	2:J:1053:ILE:HG13	1.88	0.54
2:H:2062:THR:HG22	2:H:2064:SER:N	2.22	0.54
2:J:2021:LEU:O	2:J:2025:ILE:HG13	2.08	0.54
2:G:460:ILE:HD13	2:G:487:ILE:HD11	1.89	0.54
2:I:251:PRO:HG3	2:I:316:PHE:CA	2.37	0.54
2:J:1436:ARG:NH2	2:J:1602:LEU:HD11	2.23	0.54
1:E:452:ILE:HD12	1:E:467:LYS:HA	1.88	0.54
2:J:857:VAL:CG1	2:J:876:TRP:NE1	2.69	0.54
2:K:1083:ILE:O	2:K:1086:ILE:HG13	2.08	0.54
2:G:35:PHE:CE1	2:G:105:ILE:HD13	2.43	0.54
2:J:38:PRO:HG2	2:J:41:LEU:HD12	1.89	0.54
1:B:550:LYS:HZ1	1:B:631:LYS:HE2	1.70	0.54
2:L:1366:ILE:HG22	2:L:1366:ILE:O	2.08	0.54
2:H:2019:SER:HA	2:H:2022:LEU:HD12	1.90	0.54
2:K:1234:ILE:HG12	2:K:1244:LEU:HD13	1.90	0.54
2:L:1175:MET:O	2:L:1192:LEU:HD12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:859:SER:CB	2:G:863:GLU:HG3	2.38	0.54
2:I:962:PHE:O	2:I:966:VAL:HG23	2.05	0.54
2:K:571:ASP:HB3	2:K:574:LYS:HB2	1.89	0.54
1:A:350:ASP:HB3	1:A:353:ALA:HB2	1.89	0.54
1:F:1142:LEU:HD12	1:F:1142:LEU:N	2.23	0.54
1:F:828:TRP:HE1	1:F:838:THR:HA	1.71	0.54
1:D:849:GLY:HA3	1:D:873:GLN:CG	2.38	0.54
2:I:245:SER:HA	2:I:436:THR:OG1	2.08	0.54
2:L:1142:ILE:HG13	2:L:1209:PRO:CG	2.38	0.54
2:J:617:PHE:CE1	2:J:822:ALA:HB2	2.42	0.54
2:L:1128:PRO:HG2	2:L:1135:ALA:CB	2.36	0.54
1:E:1547:ARG:HG2	1:E:1604:TYR:CD1	2.42	0.54
2:H:505:THR:O	2:H:505:THR:HG22	2.06	0.54
1:C:1142:LEU:HD12	1:C:1142:LEU:N	2.23	0.54
2:K:1620:VAL:O	2:K:1624:ALA:HB3	2.07	0.54
1:F:1164:ILE:HD12	1:F:1355:GLN:HG3	1.90	0.54
1:B:430:VAL:O	1:B:434:ILE:HG13	2.06	0.54
2:I:752:HIS:NE2	2:I:856:THR:HG22	2.23	0.54
2:H:609:THR:HG22	2:H:633:GLY:HA3	1.90	0.54
2:G:656:ARG:HG2	2:G:656:ARG:NH1	2.22	0.54
2:H:825:SER:O	2:H:828:ALA:HB3	2.08	0.54
1:F:628:TYR:OH	1:F:630:LYS:HG2	2.08	0.54
2:J:930:THR:CG2	2:J:933:GLU:HG3	2.38	0.54
1:D:881:LEU:O	1:D:884:MET:HB2	2.08	0.54
2:I:35:PHE:HZ	2:I:104:LEU:HB3	1.73	0.54
1:B:868:VAL:CG1	1:B:908:ILE:HD11	2.34	0.54
1:C:1209:PHE:CE2	1:C:1301:VAL:HG21	2.42	0.54
2:G:451:ILE:O	2:G:455:VAL:HG23	2.08	0.54
2:I:462:ALA:N	2:I:483:ASP:HA	2.22	0.54
1:A:1213:VAL:HG13	1:A:1217:GLU:HB2	1.88	0.54
1:B:1218:VAL:HG13	1:B:1301:VAL:HG13	1.90	0.54
1:D:1042:LEU:HD12	1:D:1058:PRO:HG3	1.89	0.54
2:L:1420:LYS:HG2	2:L:1425:PRO:CA	2.38	0.54
1:B:22:PHE:O	2:H:2006:HIS:HA	2.07	0.54
2:K:330:SER:N	2:L:1331:THR:HG22	2.22	0.54
2:I:1234:ILE:HG12	2:I:1244:LEU:HD13	1.89	0.54
2:G:38:PRO:HG2	2:G:41:LEU:HD12	1.89	0.54
2:K:1305:LEU:HB3	2:K:1401:ILE:HD12	1.90	0.54
2:L:1305:LEU:HB3	2:L:1401:ILE:HD12	1.89	0.54
2:J:966:VAL:O	2:J:970:PHE:HD1	1.90	0.54
1:B:714:PHE:CE1	1:B:725:LEU:HD12	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1488:SER:O	1:F:1480:ARG:NH2	2.38	0.54
1:E:1001:GLU:O	1:E:1007:ASN:HA	2.07	0.54
1:F:1307:PHE:HA	1:F:1568:ALA:HB2	1.89	0.54
2:G:888:ARG:O	2:G:891:ARG:HB2	2.07	0.54
2:H:1519:THR:O	2:H:1520:LYS:HB2	2.08	0.54
1:C:415:TYR:O	1:C:419:PHE:HD1	1.91	0.54
1:D:350:ASP:HB3	1:D:353:ALA:HB2	1.90	0.54
2:J:1377:SER:HB3	2:J:1432:GLN:HB2	1.88	0.54
2:J:728:ILE:HG22	2:J:732:LYS:HE3	1.90	0.54
2:G:120:HIS:HD2	2:G:137:VAL:HG21	1.71	0.54
1:F:1448:ALA:HA	1:F:1451:LYS:CE	2.34	0.54
2:I:750:GLY:O	2:I:865:ILE:HA	2.07	0.54
2:H:608:MET:H	2:H:612:THR:CB	2.21	0.54
2:J:610:PRO:O	2:J:613:VAL:HG12	2.08	0.54
2:H:595:SER:HB3	2:H:602:PRO:CD	2.36	0.54
2:K:1346:MET:CE	2:K:1617:ARG:HH21	2.21	0.54
2:K:1637:VAL:HG11	2:K:1679:LEU:HD22	1.89	0.54
2:I:21:LEU:HD22	2:I:36:LEU:HG	1.89	0.54
2:I:1890:ARG:HB3	2:I:1994:ALA:HB2	1.90	0.54
2:J:1903:VAL:O	2:J:1907:ILE:HG13	2.07	0.54
2:I:1746:THR:CB	2:I:1792:THR:HG23	2.36	0.54
2:K:1289:TYR:CD2	2:K:1370:LEU:HD23	2.43	0.54
1:B:1363:MET:HE3	1:B:1368:ALA:HB2	1.88	0.54
2:H:1764:MET:HG3	2:H:1781:PHE:CE1	2.42	0.54
1:C:1307:PHE:HA	1:C:1568:ALA:HB2	1.89	0.54
1:E:859:VAL:HG13	1:E:918:LEU:HD13	1.90	0.54
2:K:1421:ARG:HD2	2:K:1426:VAL:CG2	2.37	0.54
2:J:2019:SER:HA	2:J:2022:LEU:HD12	1.90	0.54
1:E:41:THR:HA	2:K:1689:VAL:HB	1.90	0.54
2:G:1305:LEU:HD11	2:G:1365:LYS:HD2	1.90	0.54
1:D:1404:ALA:HA	1:D:1501:ALA:HB1	1.89	0.54
1:A:1367:LEU:HD22	1:A:1371:MET:HG3	1.89	0.54
2:L:859:SER:CB	2:L:863:GLU:HG3	2.37	0.54
2:L:859:SER:HB3	2:L:863:GLU:HG3	1.90	0.54
2:G:1334:ALA:HA	2:G:1341:ASP:HB2	1.90	0.54
1:F:1532:LYS:HE2	1:F:1598:VAL:HG11	1.89	0.54
1:F:1451:LYS:HE2	1:F:1463:GLU:OE2	2.08	0.54
1:B:1447:VAL:CG2	1:B:1467:LEU:HD21	2.36	0.54
2:K:1594:ARG:NH1	2:K:1594:ARG:CG	2.68	0.54
2:H:460:ILE:HD13	2:H:487:ILE:HD11	1.90	0.54
2:L:1194:ARG:NH1	2:L:1194:ARG:CG	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:752:HIS:CE1	2:J:847:TYR:CE2	2.81	0.54
1:E:1491:ASN:H	1:E:1491:ASN:HD22	1.54	0.54
1:C:1100:VAL:HG21	1:C:1150:ILE:HD12	1.89	0.54
2:G:501:TRP:HE1	2:G:528:THR:CG2	2.15	0.54
2:J:1637:VAL:HG11	2:J:1679:LEU:CD1	2.34	0.54
2:H:1445:THR:CG2	2:H:1498:PHE:HB2	2.38	0.54
2:J:327:PRO:CD	2:K:1338:ARG:NH2	2.70	0.54
2:K:914:TRP:HE1	2:K:916:GLY:HA3	1.72	0.54
1:A:905:LEU:HD22	1:A:911:LEU:HD21	1.88	0.54
2:I:2044:THR:HG21	2:I:2054:TYR:CZ	2.43	0.54
2:I:1764:MET:HG3	2:I:1781:PHE:HE1	1.72	0.54
2:J:1411:LYS:HB3	2:J:1435:TYR:HB2	1.90	0.54
1:E:767:HIS:CG	1:E:813:LEU:HD12	2.43	0.54
2:H:1804:GLN:HB3	2:H:1861:PHE:CE1	2.42	0.54
2:J:1932:ASP:O	2:J:1936:LEU:HD23	2.08	0.54
1:A:1179:ILE:O	1:A:1183:VAL:HG23	2.07	0.54
1:D:501:ASP:OD2	1:D:503:ARG:HB2	2.08	0.54
2:K:26:LEU:O	2:K:32:GLU:HA	2.07	0.54
1:D:636:TYR:CD1	1:D:888:ILE:HD11	2.43	0.54
1:E:1514:ILE:O	1:E:1547:ARG:NH1	2.41	0.54
2:K:713:HIS:CD2	2:K:740:ILE:HD13	2.43	0.54
1:B:24:MET:HB3	2:H:2043:VAL:HG12	1.90	0.54
2:K:778:ALA:HB2	2:K:807:PHE:CD2	2.42	0.54
1:F:1336:GLU:O	1:F:1340:MET:HG2	2.08	0.54
1:E:1532:LYS:HE2	1:E:1598:VAL:HG11	1.88	0.54
2:L:1377:SER:HB3	2:L:1432:GLN:HB2	1.89	0.54
1:D:1451:LYS:HA	1:D:1454:ARG:NH2	2.23	0.54
2:H:855:ILE:HB	2:H:869:ALA:HB2	1.90	0.54
1:B:628:TYR:OH	1:B:630:LYS:HG2	2.08	0.54
1:A:430:VAL:O	1:A:434:ILE:HG13	2.08	0.54
2:I:1200:ARG:N	2:I:1200:ARG:HD3	2.10	0.54
2:H:524:ILE:HA	2:H:527:LEU:HD12	1.90	0.54
1:A:628:TYR:OH	1:A:630:LYS:HG2	2.07	0.54
2:I:928:ASP:HA	2:I:1007:LEU:HD23	1.90	0.54
1:A:40:ARG:HH21	1:A:72:THR:HG22	1.71	0.54
1:A:1670:HIS:CE1	2:G:1009:ASN:ND2	2.76	0.54
2:I:35:PHE:CD2	2:I:37:VAL:HG22	2.43	0.54
1:E:1280:CYS:HA	1:E:1566:LYS:O	2.08	0.54
2:L:1700:GLN:HA	2:L:1704:MET:CE	2.35	0.54
1:A:1317:GLU:HB3	1:E:1250:LEU:HD22	1.88	0.54
1:A:1306:GLY:O	1:A:1357:CYS:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:138:ARG:CB	2:J:192:THR:HA	2.38	0.54
2:J:1338:ARG:HH21	2:L:326:TYR:HA	1.73	0.54
1:C:1250:LEU:HD22	1:F:1317:GLU:HB3	1.90	0.54
1:B:746:PHE:HB3	3:B:1901:NAP:H52N	1.90	0.54
1:B:569:LEU:O	1:B:573:VAL:HG23	2.08	0.54
2:I:1963:GLU:HA	2:I:1966:ARG:HB3	1.89	0.54
2:L:1963:GLU:HA	2:L:1966:ARG:HB3	1.90	0.54
1:A:1001:GLU:HG2	1:A:1008:ALA:HB2	1.90	0.54
1:F:967:PHE:HB3	1:F:968:PRO:CD	2.38	0.54
2:G:1944:ASN:HA	2:G:1993:PHE:HD2	1.73	0.54
2:L:861:MET:HB2	2:L:863:GLU:HG2	1.89	0.54
2:I:126:VAL:HG12	2:I:127:ALA:H	1.73	0.54
1:F:31:THR:HG23	2:L:2040:ILE:HG21	1.90	0.54
1:B:849:GLY:HA3	1:B:873:GLN:CG	2.38	0.54
1:D:1229:THR:HB	1:D:1311:GLN:HG3	1.90	0.54
2:K:1217:ILE:O	2:K:1233:GLU:HA	2.08	0.54
2:G:204:ILE:HG23	2:G:312:VAL:HG11	1.90	0.54
1:D:1510:TRP:CZ3	1:D:1642:LEU:HA	2.43	0.54
2:K:911:GLN:HG3	2:K:1064:THR:HA	1.89	0.53
2:K:622:MET:O	2:K:656:ARG:NH1	2.40	0.53
2:H:489:GLU:O	2:H:493:MET:HG3	2.09	0.53
2:G:917:ARG:CG	2:G:917:ARG:NH1	2.47	0.53
2:G:917:ARG:HD3	2:G:937:ARG:CZ	2.38	0.53
2:I:172:ILE:HG22	2:I:514:VAL:O	2.08	0.53
2:K:298:ALA:HB2	2:K:304:PHE:HA	1.89	0.53
2:I:1411:LYS:HB3	2:I:1435:TYR:HB2	1.90	0.53
2:I:1410:GLY:HA3	2:I:1436:ARG:HA	1.90	0.53
2:L:824:THR:HG22	2:L:828:ALA:HB3	1.90	0.53
2:L:605:VAL:CB	2:L:628:ILE:HG13	2.32	0.53
2:I:2059:HIS:HB2	2:I:2067:ILE:HG21	1.89	0.53
2:L:1603:PRO:HD2	2:L:1606:ILE:HD11	1.90	0.53
2:G:1445:THR:CG2	2:G:1498:PHE:HB2	2.38	0.53
1:F:25:PRO:HA	2:L:2006:HIS:HB3	1.90	0.53
2:I:451:ILE:O	2:I:455:VAL:HG23	2.07	0.53
1:E:905:LEU:HD23	1:E:908:ILE:HD12	1.89	0.53
2:J:785:SER:HA	2:J:788:THR:HB	1.89	0.53
1:A:767:HIS:CB	1:A:813:LEU:HD12	2.38	0.53
2:J:2039:TYR:O	2:J:2041:PRO:HD3	2.08	0.53
2:G:727:VAL:HA	2:G:730:ILE:HG12	1.90	0.53
2:H:38:PRO:HG2	2:H:41:LEU:HD12	1.90	0.53
2:H:1234:ILE:HG12	2:H:1244:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1640:LYS:HG3	1:C:1641:TYR:HD1	1.72	0.53
1:D:469:LEU:O	1:D:472:GLN:HB3	2.07	0.53
2:I:197:VAL:HA	2:I:262:MET:HE1	1.91	0.53
1:B:1001:GLU:O	1:B:1007:ASN:HA	2.07	0.53
1:B:1038:HIS:O	1:B:1048:SER:HA	2.08	0.53
1:A:415:TYR:O	1:A:419:PHE:HD1	1.91	0.53
2:G:192:THR:C	2:G:194:PRO:HD3	2.29	0.53
2:K:161:ALA:HB1	2:K:166:ASN:HB2	1.90	0.53
1:D:1090:ASP:OD1	1:D:1092:ASN:HB2	2.08	0.53
2:K:1821:MET:HA	2:K:1826:LEU:HD12	1.90	0.53
1:B:427:ARG:NH1	1:B:492:ILE:HG12	2.23	0.53
1:B:628:TYR:C	1:B:628:TYR:CD1	2.81	0.53
1:E:427:ARG:HG3	1:E:427:ARG:NH1	2.01	0.53
1:E:427:ARG:NH1	1:E:492:ILE:HG23	2.16	0.53
2:K:1586:ASP:OD1	2:K:1588:ASN:HB2	2.08	0.53
1:C:535:TYR:CG	1:C:610:GLU:N	2.76	0.53
2:K:376:ARG:NH2	2:L:1340:LYS:HG3	2.24	0.53
2:K:460:ILE:O	2:K:486:ILE:HB	2.08	0.53
2:K:1445:THR:CG2	2:K:1498:PHE:HB2	2.39	0.53
2:L:824:THR:HB	2:L:829:LYS:HE3	1.90	0.53
2:L:911:GLN:HG3	2:L:1064:THR:HA	1.89	0.53
2:H:1436:ARG:HH22	2:H:1602:LEU:HD13	1.72	0.53
2:I:35:PHE:HD2	2:I:37:VAL:HG22	1.72	0.53
2:L:1436:ARG:HH22	2:L:1602:LEU:CD1	2.21	0.53
1:A:13:LEU:HD11	2:G:2058:VAL:HG21	1.90	0.53
2:G:486:ILE:HG23	2:G:490:LEU:HG	1.91	0.53
1:E:1704:THR:HG23	1:E:1714:PRO:HG3	1.89	0.53
2:K:1251:THR:HG22	2:K:1292:VAL:HG13	1.89	0.53
2:I:289:ILE:HG12	2:I:493:MET:HE1	1.91	0.53
2:I:1421:ARG:HD2	2:I:1426:VAL:CG2	2.38	0.53
2:H:727:VAL:HA	2:H:730:ILE:HG12	1.90	0.53
2:J:256:VAL:O	2:J:260:HIS:CD2	2.61	0.53
2:H:22:ARG:HD2	2:H:42:HIS:HB3	1.90	0.53
2:J:1356:ALA:CB	2:J:1397:THR:HG22	2.38	0.53
1:E:983:GLN:O	1:E:987:MET:HG3	2.08	0.53
2:L:186:LEU:CG	2:L:256:VAL:HG22	2.38	0.53
1:E:1514:ILE:HD13	1:E:1545:LEU:HB3	1.90	0.53
1:A:1254:PHE:HB2	1:A:1257:THR:OG1	2.08	0.53
1:F:1323:ALA:HB1	1:F:1351:PHE:HE2	1.72	0.53
2:K:1966:ARG:O	2:K:1970:VAL:HG23	2.08	0.53
2:J:329:THR:HG21	2:K:1333:GLU:CG	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1821:MET:HA	2:I:1826:LEU:HD12	1.90	0.53
2:L:617:PHE:CE1	2:L:822:ALA:HB2	2.43	0.53
1:C:1686:PRO:HB2	1:C:1713:PHE:CE1	2.43	0.53
2:I:609:THR:HG22	2:I:633:GLY:HA3	1.88	0.53
2:I:656:ARG:NH1	2:I:656:ARG:HG2	2.20	0.53
1:C:1330:GLU:OE2	1:C:1342:ARG:NH2	2.41	0.53
1:C:1547:ARG:HG2	1:C:1604:TYR:HD1	1.71	0.53
2:J:595:SER:HB3	2:J:602:PRO:CD	2.38	0.53
2:L:1616:VAL:HG11	2:L:1679:LEU:CD1	2.31	0.53
1:E:1108:PRO:HA	1:E:1140:VAL:O	2.08	0.53
2:K:2059:HIS:HB2	2:K:2067:ILE:HG21	1.90	0.53
2:I:1370:LEU:HA	2:I:1435:TYR:CE2	2.42	0.53
2:J:938:MET:HE2	2:J:959:THR:HG22	1.89	0.53
2:I:762:LEU:HD11	2:I:800:PHE:CD2	2.44	0.53
2:I:903:ILE:HD11	2:I:914:TRP:CZ2	2.43	0.53
2:K:1746:THR:CB	2:K:1792:THR:HG23	2.35	0.53
2:J:747:ARG:NH1	2:J:780:SER:HB3	2.20	0.53
2:L:1074:LYS:HE3	2:L:1075:TYR:CE1	2.40	0.53
1:D:486:VAL:HG13	1:D:648:LEU:H	1.73	0.53
1:F:452:ILE:HD12	1:F:467:LYS:HA	1.89	0.53
2:I:2005:PHE:HA	2:I:2010:LEU:HD11	1.91	0.53
1:B:486:VAL:HG13	1:B:648:LEU:H	1.74	0.53
2:G:506:VAL:CG1	2:G:506:VAL:O	2.57	0.53
2:I:1709:TYR:HD2	2:I:1709:TYR:C	2.11	0.53
2:I:1986:PRO:O	2:I:1987:VAL:HB	2.08	0.53
1:A:1505:GLY:O	1:A:1509:THR:HG23	2.08	0.53
2:H:1342:PHE:HE2	2:H:1391:VAL:CG2	2.21	0.53
1:C:1094:LYS:HB3	1:C:1154:LEU:HB2	1.90	0.53
2:L:1203:TYR:HB3	2:L:1220:ARG:HB2	1.89	0.53
2:H:1324:PHE:N	2:H:1583:VAL:HG11	2.23	0.53
1:E:382:ILE:HD12	1:E:761:SER:HB3	1.90	0.53
2:J:228:LEU:O	2:J:232:HIS:HD2	1.90	0.53
1:A:1120:LYS:HD3	1:A:1129:ILE:HG12	1.90	0.53
1:C:904:GLY:HA2	1:C:906:GLN:OE1	2.07	0.53
1:B:1014:MET:O	1:B:1590:ARG:NH2	2.37	0.53
1:D:1001:GLU:HG2	1:D:1008:ALA:HB2	1.90	0.53
1:D:542:GLN:HB3	1:D:579:MET:CE	2.18	0.53
2:I:1067:LEU:HB2	4:I:2101:FMN:HM71	1.88	0.53
2:I:609:THR:CG2	2:I:633:GLY:HA3	2.39	0.53
2:H:490:LEU:HA	2:H:493:MET:SD	2.49	0.53
2:J:752:HIS:NE2	2:J:856:THR:HG22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:614:PRO:O	2:G:618:VAL:HG12	2.08	0.53
1:E:628:TYR:HD1	1:E:629:SER:N	2.06	0.53
2:J:931:TYR:O	2:J:935:VAL:HG12	2.09	0.53
2:I:1411:LYS:HE3	2:I:1441:ASP:OD2	2.09	0.53
2:L:1064:THR:HG22	2:L:1065:CYS:N	2.22	0.53
1:B:13:LEU:HD11	2:H:2058:VAL:HG21	1.90	0.53
2:H:605:VAL:CB	2:H:628:ILE:HG13	2.33	0.53
2:L:2062:THR:HG22	2:L:2064:SER:N	2.23	0.53
2:I:290:VAL:HG13	2:I:314:LEU:HD23	1.91	0.53
2:G:300:THR:H	2:G:303:GLU:HB3	1.73	0.53
2:I:1464:LEU:HD13	2:I:1468:ARG:HG3	1.91	0.53
2:J:1878:ARG:HE	2:J:1986:PRO:HG3	1.73	0.53
2:L:1845:VAL:CG2	2:L:1856:LEU:HD22	2.39	0.53
2:H:48:LEU:HD13	2:H:101:VAL:HG11	1.90	0.53
2:G:2019:SER:HA	2:G:2022:LEU:HD12	1.89	0.53
2:K:186:LEU:CG	2:K:256:VAL:HG22	2.37	0.53
2:K:256:VAL:O	2:K:260:HIS:CD2	2.62	0.53
1:B:1307:PHE:HB3	1:B:1357:CYS:HB3	1.90	0.53
1:A:636:TYR:CZ	1:A:640:LEU:HD22	2.42	0.53
2:L:1093:ASP:O	2:L:1097:PHE:HD1	1.91	0.53
1:E:565:GLN:O	1:E:569:LEU:HG	2.07	0.53
2:G:776:LEU:HG	2:G:807:PHE:CE2	2.43	0.53
2:L:157:ALA:HB3	2:L:565:ALA:HB3	1.90	0.53
1:F:382:ILE:HD12	1:F:761:SER:HB3	1.90	0.53
2:G:1224:GLN:HA	2:G:1224:GLN:OE1	2.09	0.53
1:A:1017:TYR:N	1:A:1017:TYR:HD1	2.05	0.53
1:C:1435:TRP:HD1	1:F:1427:LEU:HD11	1.72	0.53
2:J:1555:VAL:HG21	2:J:1824:LYS:HA	1.90	0.53
1:C:30:GLU:HB2	2:I:2045:ALA:HB1	1.90	0.53
2:L:161:ALA:HB1	2:L:166:ASN:HB2	1.89	0.53
2:H:610:PRO:HD2	4:H:2101:FMN:C6	2.25	0.53
2:H:752:HIS:CE1	2:H:856:THR:HG21	2.43	0.53
2:K:613:VAL:HG13	2:K:614:PRO:CD	2.38	0.53
2:H:250:PHE:CB	2:H:251:PRO:HD3	2.39	0.53
2:L:609:THR:HG22	2:L:633:GLY:HA3	1.91	0.53
1:C:1100:VAL:HG21	1:C:1150:ILE:CD1	2.38	0.53
2:J:798:THR:HA	2:J:802:TYR:O	2.08	0.53
1:E:1670:HIS:CE1	2:K:1009:ASN:ND2	2.77	0.53
2:K:485:ASP:O	2:K:488:PRO:HD2	2.09	0.53
1:C:40:ARG:HH21	1:C:72:THR:HG22	1.73	0.53
1:F:628:TYR:HD1	1:F:629:SER:N	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1616:VAL:HG11	2:H:1679:LEU:CD1	2.32	0.53
2:J:1288:PHE:CE2	2:J:1292:VAL:HG21	2.43	0.53
2:H:2057:GLU:HA	2:H:2060:ARG:HH12	1.70	0.53
2:G:2062:THR:HG22	2:G:2064:SER:N	2.24	0.53
1:F:1565:PRO:O	1:F:1567:GLY:N	2.42	0.53
2:I:1745:LEU:HB3	2:I:1799:LEU:CD2	2.38	0.53
2:G:1764:MET:HG3	2:G:1781:PHE:CE1	2.44	0.53
2:J:2005:PHE:HA	2:J:2010:LEU:HD11	1.90	0.53
1:F:767:HIS:CG	1:F:813:LEU:HD12	2.44	0.53
1:C:1179:ILE:O	1:C:1183:VAL:HG23	2.08	0.53
2:I:1356:ALA:CB	2:I:1397:THR:HG22	2.38	0.53
2:K:1099:LEU:HD12	2:K:1103:TYR:CB	2.38	0.53
2:I:192:THR:C	2:I:194:PRO:HD3	2.28	0.53
1:D:421:ARG:NH2	1:D:1613:LYS:HB3	2.23	0.53
2:I:1643:VAL:CG1	2:I:1649:ILE:HD11	2.38	0.53
1:A:415:TYR:CD2	1:A:1614:THR:HA	2.43	0.53
1:A:42:GLU:OE1	2:G:1688:PRO:HB3	2.08	0.53
1:D:1038:HIS:O	1:D:1048:SER:HA	2.08	0.53
2:G:26:LEU:O	2:G:32:GLU:HA	2.09	0.53
2:K:1607:THR:HB	2:K:1643:VAL:O	2.08	0.53
1:C:844:ILE:N	1:C:844:ILE:HD12	2.23	0.53
2:H:1224:GLN:HA	2:H:1224:GLN:OE1	2.08	0.53
1:C:731:ASP:HB3	1:C:735:GLY:HA3	1.91	0.53
2:H:613:VAL:HG13	2:H:614:PRO:HD3	1.89	0.53
2:K:1007:LEU:HD12	2:K:1007:LEU:N	2.17	0.53
2:L:460:ILE:HD13	2:L:487:ILE:HD11	1.90	0.53
2:H:440:HIS:HD2	2:H:497:ASP:O	1.90	0.53
1:E:960:ARG:HG3	1:E:960:ARG:HH11	1.73	0.53
2:H:685:VAL:CG1	2:H:687:ILE:HG13	2.38	0.53
2:K:1074:LYS:HE3	2:K:1075:TYR:CE1	2.41	0.53
2:I:1305:LEU:H	2:I:1305:LEU:HD12	1.72	0.53
2:H:2021:LEU:O	2:H:2025:ILE:HG13	2.09	0.53
2:G:604:MET:CE	2:G:811:MET:HB2	2.39	0.53
2:L:784:GLY:HA3	2:L:786:GLU:OE2	2.09	0.53
2:L:21:LEU:HA	2:L:37:VAL:O	2.08	0.53
2:H:268:LEU:HD12	2:H:275:LEU:HD11	1.90	0.53
1:B:41:THR:HA	2:H:1689:VAL:HB	1.90	0.53
1:A:1337:PRO:HA	1:A:1340:MET:CG	2.38	0.53
2:L:92:GLU:HB3	2:L:95:HIS:NE2	2.24	0.53
2:K:141:TYR:OH	2:K:267:THR:HG23	2.08	0.53
2:L:1207:THR:O	2:L:1215:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1017:TYR:N	1:A:1017:TYR:CD1	2.76	0.53
1:B:1692:GLN:HG3	1:B:1696:PHE:CE2	2.44	0.53
1:C:1038:HIS:O	1:C:1048:SER:HA	2.08	0.53
2:I:94:ALA:HB1	2:I:97:THR:OG1	2.07	0.53
2:J:952:ASP:OD1	2:J:953:PRO:HD2	2.08	0.53
2:H:762:LEU:HD11	2:H:800:PHE:CD2	2.43	0.53
2:J:1362:PHE:N	2:J:1363:PRO:HD2	2.24	0.53
2:G:152:LYS:HB2	2:G:154:TYR:CE1	2.43	0.53
2:L:298:ALA:HB2	2:L:304:PHE:HA	1.90	0.53
2:J:276:LEU:HD21	2:J:296:ALA:HA	1.91	0.53
1:C:1702:ARG:HG2	1:C:1702:ARG:NH1	2.12	0.53
1:D:427:ARG:CG	1:D:427:ARG:NH1	2.56	0.53
2:H:501:TRP:HE1	2:H:528:THR:CG2	2.15	0.53
1:F:575:ARG:HG2	1:F:579:MET:SD	2.49	0.53
1:C:965:TYR:HE1	1:C:1669:PHE:CD1	2.25	0.53
2:H:1410:GLY:HA3	2:H:1436:ARG:HA	1.90	0.53
2:J:580:LEU:HD21	2:J:1095:ILE:HA	1.89	0.53
2:G:1770:ASN:HB2	2:G:1776:LYS:CE	2.37	0.53
2:L:1795:SER:HB3	2:L:1799:LEU:HD12	1.91	0.53
2:H:2039:TYR:O	2:H:2041:PRO:HD3	2.09	0.53
1:E:503:ARG:HA	1:E:933:ILE:HD11	1.91	0.53
2:J:1175:MET:HA	2:J:1274:ILE:CD1	2.39	0.53
1:C:469:LEU:O	1:C:472:GLN:HB3	2.08	0.53
2:I:820:LYS:HG3	2:I:821:GLU:HG2	1.91	0.53
2:H:875:PHE:O	2:H:878:GLU:HB2	2.09	0.53
1:C:1113:LYS:O	1:C:1117:GLU:HG3	2.08	0.53
2:G:1963:GLU:HA	2:G:1966:ARG:HB3	1.91	0.53
2:I:256:VAL:O	2:I:260:HIS:CD2	2.61	0.53
1:F:1547:ARG:HG2	1:F:1604:TYR:HD1	1.72	0.53
2:I:912:LYS:HB3	2:I:1030:PHE:HA	1.91	0.53
2:K:861:MET:HB2	2:K:863:GLU:HG2	1.90	0.53
1:C:1260:ALA:O	1:C:1264:MET:HG3	2.08	0.53
2:H:962:PHE:O	2:H:966:VAL:HG23	2.09	0.53
2:G:1982:ALA:O	2:G:1984:PRO:HD3	2.08	0.53
1:C:1451:LYS:HA	1:C:1454:ARG:NH2	2.23	0.53
2:I:653:PRO:O	2:I:656:ARG:HB2	2.09	0.53
1:B:612:ILE:HA	1:B:628:TYR:CE2	2.44	0.53
1:E:628:TYR:OH	1:E:630:LYS:HG2	2.09	0.53
2:H:2062:THR:HG22	2:H:2063:GLY:N	2.23	0.53
1:D:684:THR:HG21	1:D:691:VAL:HG11	1.90	0.53
1:D:22:PHE:O	2:J:2006:HIS:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:962:ASN:ND2	2:G:1006:GLN:HE22	1.97	0.53
1:B:905:LEU:HD23	1:B:908:ILE:HD12	1.91	0.53
2:I:462:ALA:H	2:I:483:ASP:HA	1.72	0.53
2:G:1918:VAL:CG1	2:G:2006:HIS:HB2	2.37	0.53
2:J:747:ARG:NH2	2:J:757:PHE:CE1	2.77	0.53
1:B:1505:GLY:O	1:B:1509:THR:HG23	2.08	0.53
2:G:2044:THR:HG22	2:G:2046:LYS:H	1.73	0.53
2:K:197:VAL:HG12	2:K:201:ILE:HG13	1.91	0.53
2:G:788:THR:HG22	2:G:1094:HIS:HE1	1.73	0.53
2:H:21:LEU:HD22	2:H:36:LEU:HG	1.89	0.53
2:K:792:LEU:HD23	2:K:1094:HIS:ND1	2.24	0.53
2:L:1750:GLY:O	2:L:1755:LYS:HE3	2.08	0.53
2:H:1305:LEU:H	2:H:1305:LEU:CD1	2.20	0.53
2:K:1356:ALA:CB	2:K:1397:THR:HG22	2.38	0.53
2:G:197:VAL:HG21	2:G:263:ILE:HD11	1.91	0.53
1:A:551:LEU:CD2	1:F:562:SER:HB3	2.38	0.53
2:G:1653:LEU:HD21	2:G:1667:VAL:HG13	1.90	0.53
2:G:882:LYS:HB3	2:G:898:ARG:NH1	2.24	0.53
1:C:1431:GLN:OE1	1:F:1431:GLN:HG2	2.09	0.53
2:L:192:THR:C	2:L:194:PRO:HD3	2.28	0.53
1:D:1132:ILE:HD12	1:D:1137:GLN:HB2	1.90	0.53
2:K:1128:PRO:HG2	2:K:1135:ALA:CB	2.39	0.53
1:E:689:ARG:NH2	1:E:1591:ASN:OD1	2.41	0.53
2:G:1750:GLY:O	2:G:1755:LYS:HE3	2.08	0.53
2:J:161:ALA:HB1	2:J:166:ASN:HB2	1.90	0.53
1:F:1132:ILE:HD12	1:F:1137:GLN:HB2	1.90	0.53
1:F:415:TYR:O	1:F:419:PHE:HD1	1.92	0.53
2:I:859:SER:CB	2:I:863:GLU:HG3	2.38	0.53
1:B:1606:VAL:O	1:B:1608:PRO:HD3	2.09	0.53
2:K:613:VAL:HG23	2:K:635:TYR:CE1	2.44	0.53
2:J:609:THR:HG23	4:J:2101:FMN:O4	2.08	0.53
2:J:608:MET:H	2:J:612:THR:CB	2.20	0.53
2:G:595:SER:HB3	2:G:602:PRO:CD	2.38	0.53
1:F:1491:ASN:H	1:F:1491:ASN:HD22	1.56	0.53
1:A:628:TYR:HD1	1:A:629:SER:N	2.06	0.53
2:I:1678:VAL:O	2:I:1679:LEU:HD23	2.09	0.53
1:E:968:PRO:HD2	1:E:1374:PRO:HB3	1.90	0.53
2:H:1436:ARG:NH2	2:H:1602:LEU:CD1	2.72	0.53
2:J:376:ARG:HH22	2:K:1340:LYS:CE	2.22	0.53
1:E:1307:PHE:HA	1:E:1568:ALA:HB2	1.90	0.53
1:C:452:ILE:HD12	1:C:467:LYS:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1094:LYS:HB3	1:E:1154:LEU:HB2	1.91	0.53
1:E:1052:ASP:O	1:E:1055:THR:O	2.26	0.53
2:I:825:SER:CB	2:I:1053:ILE:HG13	2.39	0.53
2:H:580:LEU:HD11	2:H:1098:LEU:HB3	1.91	0.53
1:A:1269:SER:O	1:E:1386:THR:HB	2.09	0.53
1:F:746:PHE:CE1	1:F:800:PRO:HG3	2.43	0.53
2:J:21:LEU:HD22	2:J:36:LEU:HG	1.91	0.53
2:H:699:ILE:N	2:H:699:ILE:HD12	2.24	0.53
2:I:379:GLY:O	2:I:391:VAL:HG13	2.09	0.53
1:E:636:TYR:CD1	1:E:888:ILE:HD11	2.44	0.53
1:D:1505:GLY:O	1:D:1509:THR:HG23	2.09	0.53
2:G:1142:ILE:HG13	2:G:1209:PRO:HG3	1.91	0.53
2:I:170:TYR:CE2	2:I:507:PHE:HB3	2.44	0.53
2:I:915:PHE:CD2	2:I:915:PHE:O	2.62	0.53
2:L:529:ASN:HD22	2:L:552:VAL:CG2	2.22	0.53
2:G:1805:PHE:O	2:G:1808:PRO:HD2	2.09	0.53
2:H:1156:ASP:HB2	2:H:1159:SER:H	1.73	0.53
2:I:1317:ASN:HB3	2:I:1320:ALA:HB3	1.90	0.53
2:K:327:PRO:HD2	2:L:1338:ARG:NH2	2.24	0.53
2:L:1982:ALA:O	2:L:1984:PRO:HD3	2.09	0.53
1:E:1451:LYS:HE2	1:E:1463:GLU:OE2	2.09	0.53
1:B:1330:GLU:OE2	1:B:1342:ARG:NH2	2.41	0.53
2:I:613:VAL:HG13	2:I:614:PRO:HD3	1.91	0.53
2:K:618:VAL:HG11	2:K:648:ILE:HD11	1.91	0.53
2:G:610:PRO:CD	4:G:2101:FMN:H6	2.26	0.53
1:D:628:TYR:CD1	1:D:628:TYR:C	2.81	0.53
2:G:1007:LEU:H	2:G:1007:LEU:CD1	2.15	0.53
2:G:930:THR:O	2:G:934:VAL:HG23	2.08	0.53
2:G:942:MET:HE2	2:G:955:LEU:HD13	1.90	0.53
2:I:1180:VAL:HG11	2:I:1187:PHE:CG	2.43	0.53
2:J:1180:VAL:HG11	2:J:1187:PHE:CG	2.43	0.53
1:D:570:TYR:HD2	1:D:574:ILE:HD11	1.73	0.53
2:K:743:TRP:CD2	2:K:761:ILE:HD11	2.44	0.53
2:J:1871:VAL:HG21	2:J:2003:VAL:HA	1.91	0.53
1:A:960:ARG:HH11	1:A:960:ARG:HG3	1.74	0.53
1:F:22:PHE:CE2	2:L:2017:PHE:CG	2.91	0.53
1:E:1306:GLY:O	1:E:1357:CYS:HB2	2.08	0.53
1:E:486:VAL:HG13	1:E:648:LEU:H	1.74	0.53
1:E:1512:LEU:HD21	1:E:1641:TYR:CE2	2.43	0.53
2:G:820:LYS:HG3	2:G:821:GLU:HG2	1.90	0.53
2:L:1171:TRP:CD1	2:L:1172:ARG:N	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:501:ASP:OD2	1:C:503:ARG:HB2	2.09	0.53
2:G:379:GLY:O	2:G:391:VAL:HG13	2.09	0.53
2:I:1176:PHE:CE1	2:I:1192:LEU:HD13	2.44	0.53
2:I:92:GLU:HB3	2:I:95:HIS:NE2	2.24	0.53
2:L:1317:ASN:HB3	2:L:1320:ALA:CB	2.39	0.53
1:D:415:TYR:CD2	1:D:1614:THR:HA	2.44	0.53
2:L:1554:PRO:HG3	2:L:1659:ILE:HD11	1.90	0.53
2:G:778:ALA:HB2	2:G:807:PHE:CD2	2.45	0.53
1:E:59:ARG:NH1	2:K:1926:GLN:HE21	2.07	0.53
2:I:980:LEU:HD22	2:I:986:LEU:HD21	1.91	0.53
1:E:1254:PHE:HB2	1:E:1257:THR:OG1	2.09	0.53
2:I:1566:LYS:O	2:I:1568:PRO:HD3	2.09	0.53
2:L:1620:VAL:O	2:L:1624:ALA:HB3	2.09	0.53
2:H:613:VAL:N	2:H:614:PRO:CD	2.72	0.52
2:H:752:HIS:NE2	2:H:856:THR:HG21	2.24	0.52
2:K:930:THR:HA	2:K:1007:LEU:HA	1.91	0.52
2:K:929:MET:HE1	2:K:934:VAL:HG22	1.91	0.52
2:L:1067:LEU:O	2:L:1068:GLN:HG2	2.10	0.52
2:L:613:VAL:N	2:L:614:PRO:CD	2.72	0.52
1:A:558:LEU:HA	1:F:557:ARG:HH11	1.73	0.52
2:K:1346:MET:CE	2:K:1617:ARG:NH2	2.72	0.52
1:F:998:GLY:CA	1:F:1361:VAL:HG13	2.31	0.52
2:H:1053:ILE:HD11	2:H:1061:VAL:HG13	1.91	0.52
2:K:440:HIS:NE2	2:K:499:VAL:HG23	2.25	0.52
2:I:1293:TRP:CZ3	2:I:1370:LEU:HD21	2.44	0.52
1:D:673:LEU:O	1:D:678:ALA:HB3	2.10	0.52
2:K:775:VAL:HG12	2:K:777:VAL:HG23	1.90	0.52
1:D:1491:ASN:H	1:D:1491:ASN:HD22	1.56	0.52
2:L:1500:ASN:HB2	2:L:1503:VAL:H	1.74	0.52
2:G:325:ALA:HB2	2:G:447:ALA:HB2	1.90	0.52
2:G:1288:PHE:CE2	2:G:1292:VAL:HG21	2.43	0.52
1:B:1494:TRP:HE1	1:B:1509:THR:HG21	1.74	0.52
2:J:1411:LYS:HE3	2:J:1441:ASP:OD2	2.09	0.52
1:E:1213:VAL:HG22	1:E:1300:ARG:CZ	2.39	0.52
1:E:1213:VAL:HG13	1:E:1217:GLU:HB2	1.91	0.52
2:J:1890:ARG:HB3	2:J:1994:ALA:HB2	1.92	0.52
2:H:1878:ARG:HE	2:H:1986:PRO:HG3	1.73	0.52
1:F:859:VAL:HG13	1:F:918:LEU:HD13	1.91	0.52
1:B:1032:MET:HE2	1:B:1165:PRO:HB3	1.91	0.52
2:H:1370:LEU:HA	2:H:1435:TYR:CE2	2.43	0.52
1:A:967:PHE:CG	1:A:1374:PRO:HG3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1176:PHE:CE1	2:J:1192:LEU:HD13	2.44	0.52
2:J:1234:ILE:HG12	2:J:1244:LEU:HD13	1.91	0.52
1:C:929:ARG:O	1:C:933:ILE:HG13	2.09	0.52
1:E:714:PHE:CE1	1:E:725:LEU:HD12	2.44	0.52
2:J:196:PHE:H	2:J:196:PHE:HD2	1.56	0.52
2:K:1653:LEU:CD2	2:K:1667:VAL:HG13	2.38	0.52
1:A:766:ALA:HA	1:A:769:ILE:HD12	1.91	0.52
2:J:1821:MET:HA	2:J:1826:LEU:HD12	1.91	0.52
1:F:967:PHE:HB3	1:F:968:PRO:HD2	1.91	0.52
2:K:1946:LEU:HD22	2:K:1951:ILE:HG12	1.92	0.52
2:G:992:ALA:O	2:G:995:ARG:HB3	2.09	0.52
2:G:1620:VAL:O	2:G:1624:ALA:HB3	2.09	0.52
2:I:410:ALA:HB1	2:I:414:LEU:HD12	1.90	0.52
2:J:655:GLY:HA3	2:J:1272:ALA:CB	2.39	0.52
2:H:1913:TRP:HZ3	2:H:1938:THR:HG21	1.73	0.52
1:D:988:VAL:HG12	1:D:990:LEU:HD23	1.90	0.52
2:L:1279:GLU:H	2:L:1279:GLU:CD	2.12	0.52
2:K:1813:MET:HG3	2:K:1814:GLU:N	2.24	0.52
2:G:1885:ALA:HB2	2:G:1998:LEU:HD21	1.90	0.52
2:I:727:VAL:HA	2:I:730:ILE:HG12	1.90	0.52
2:L:490:LEU:HA	2:L:493:MET:SD	2.50	0.52
1:B:1702:ARG:HG2	1:B:1702:ARG:NH1	2.16	0.52
2:K:1180:VAL:HG11	2:K:1187:PHE:CG	2.41	0.52
1:C:881:LEU:O	1:C:884:MET:HB2	2.09	0.52
2:G:930:THR:CG2	2:G:933:GLU:HG3	2.38	0.52
1:E:487:TYR:CE2	1:E:881:LEU:HD13	2.45	0.52
2:I:21:LEU:HD13	2:I:36:LEU:HD21	1.92	0.52
1:F:868:VAL:HG11	1:F:908:ILE:CD1	2.35	0.52
2:L:837:GLY:HA3	2:L:1074:LYS:HG2	1.91	0.52
2:L:1745:LEU:HD12	2:L:1746:THR:N	2.23	0.52
2:K:1464:LEU:HD13	2:K:1468:ARG:HG3	1.90	0.52
2:J:260:HIS:CE1	2:J:543:GLY:HA2	2.44	0.52
2:H:378:ILE:HD11	2:H:398:LEU:HA	1.92	0.52
1:C:1337:PRO:HA	1:C:1340:MET:CG	2.39	0.52
2:I:378:ILE:HD11	2:I:398:LEU:HA	1.90	0.52
2:H:411:PRO:HD2	2:H:414:LEU:CD1	2.39	0.52
1:B:1307:PHE:HB3	1:B:1357:CYS:CB	2.39	0.52
2:J:1207:THR:O	2:J:1215:THR:HG23	2.09	0.52
1:B:30:GLU:HB2	2:H:2045:ALA:CB	2.39	0.52
1:A:414:TYR:CE2	1:A:418:ILE:CD1	2.92	0.52
2:K:1157:VAL:HG13	2:K:1197:ALA:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:882:LYS:HB3	2:J:898:ARG:NH1	2.24	0.52
2:I:422:THR:HG23	2:I:844:GLU:OE2	2.09	0.52
2:H:1457:HIS:ND1	2:H:1487:THR:HG22	2.24	0.52
2:H:1248:GLU:OE1	2:H:1248:GLU:HA	2.08	0.52
1:D:904:GLY:HA2	1:D:906:GLN:OE1	2.08	0.52
1:A:1297:GLY:HA2	1:E:1496:ARG:NH2	2.23	0.52
2:J:992:ALA:O	2:J:995:ARG:HB3	2.10	0.52
2:G:221:TYR:CE2	2:G:225:LEU:HD22	2.44	0.52
2:I:1064:THR:HG22	2:I:1065:CYS:N	2.24	0.52
2:K:752:HIS:NE2	2:K:856:THR:HG21	2.24	0.52
2:J:1350:ILE:HG22	2:J:1429:VAL:HG11	1.91	0.52
2:L:934:VAL:O	2:L:938:MET:HG3	2.08	0.52
1:F:636:TYR:CD1	1:F:888:ILE:HD11	2.44	0.52
2:K:857:VAL:CG1	2:K:876:TRP:CD1	2.92	0.52
1:D:487:TYR:CE2	1:D:881:LEU:HD13	2.45	0.52
1:D:558:LEU:HB2	1:D:563:GLN:CG	2.35	0.52
1:E:1703:VAL:CG1	1:E:1711:LEU:HB3	2.36	0.52
2:J:779:GLY:HA3	2:J:811:MET:CE	2.40	0.52
2:H:1468:ARG:NH1	2:H:1475:LEU:HD22	2.24	0.52
2:I:1770:ASN:HB2	2:I:1776:LYS:CE	2.39	0.52
2:J:391:VAL:HG12	2:J:398:LEU:HD21	1.91	0.52
2:J:48:LEU:HD13	2:J:101:VAL:HG11	1.91	0.52
2:G:794:GLY:O	2:G:804:PRO:HA	2.09	0.52
2:H:1411:LYS:HB3	2:H:1435:TYR:HB2	1.90	0.52
2:G:718:PRO:HG3	2:G:727:VAL:HG21	1.91	0.52
2:H:35:PHE:CE1	2:H:105:ILE:HD13	2.44	0.52
2:H:35:PHE:HZ	2:H:104:LEU:HB3	1.74	0.52
2:L:1383:VAL:HG23	2:L:1428:TYR:CE1	2.42	0.52
1:C:983:GLN:HB3	1:C:1418:ILE:HG21	1.91	0.52
2:H:1176:PHE:CE1	2:H:1192:LEU:HD13	2.45	0.52
1:A:1078:ILE:HG23	1:A:1352:MET:CE	2.40	0.52
2:H:1383:VAL:HG23	2:H:1428:TYR:CE1	2.43	0.52
1:F:336:PHE:O	1:F:339:GLN:HB2	2.09	0.52
2:I:1383:VAL:HG23	2:I:1428:TYR:CE1	2.43	0.52
2:J:962:PHE:O	2:J:965:ARG:HB3	2.08	0.52
1:D:1323:ALA:HB1	1:D:1351:PHE:CE2	2.44	0.52
1:A:1514:ILE:HD13	1:A:1545:LEU:HB3	1.90	0.52
1:D:1510:TRP:HZ3	1:D:1642:LEU:HA	1.74	0.52
2:K:196:PHE:H	2:K:196:PHE:HD2	1.58	0.52
2:H:979:LEU:HB2	2:H:996:ILE:HG23	1.91	0.52
1:F:985:ARG:HB3	1:F:1422:ARG:HH22	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1813:MET:HG3	2:G:1814:GLU:N	2.23	0.52
1:B:679:LYS:HG2	1:B:708:GLN:HB3	1.91	0.52
1:D:983:GLN:O	1:D:987:MET:HG3	2.10	0.52
2:L:915:PHE:HB2	2:L:1030:PHE:CD1	2.44	0.52
2:K:1913:TRP:HZ3	2:K:1938:THR:HG21	1.74	0.52
1:F:1335:ARG:HH11	1:F:1339:GLU:HG2	1.73	0.52
1:D:1169:ASP:OD2	1:D:1171:ARG:HB2	2.10	0.52
1:D:382:ILE:HD12	1:D:761:SER:HB3	1.91	0.52
1:B:1448:ALA:CA	1:B:1451:LYS:HE3	2.33	0.52
1:D:427:ARG:HH11	1:D:492:ILE:HG12	1.75	0.52
2:H:1181:PHE:CD1	2:H:1191:PRO:HD2	2.43	0.52
2:H:1637:VAL:HG11	2:H:1679:LEU:HD22	1.90	0.52
1:E:1005:TRP:HE1	1:E:1561:LEU:HD22	1.71	0.52
2:K:837:GLY:HA3	2:K:1074:LYS:HG2	1.91	0.52
2:G:290:VAL:HG13	2:G:314:LEU:HD23	1.92	0.52
1:E:498:THR:HG21	1:E:858:LEU:CA	2.35	0.52
2:H:903:ILE:HD11	2:H:914:TRP:CZ2	2.45	0.52
2:L:674:ILE:HD13	2:L:705:TYR:HE2	1.72	0.52
1:F:767:HIS:CB	1:F:813:LEU:HD12	2.38	0.52
1:F:486:VAL:HG13	1:F:648:LEU:H	1.75	0.52
2:H:580:LEU:HD21	2:H:1095:ILE:HA	1.92	0.52
1:A:1480:ARG:NH2	1:E:1488:SER:O	2.37	0.52
2:L:1369:ASP:OD1	2:L:1371:LEU:HB3	2.09	0.52
1:D:929:ARG:O	1:D:933:ILE:HG13	2.10	0.52
2:H:1421:ARG:HG2	2:H:1421:ARG:O	2.08	0.52
1:B:1640:LYS:HG3	1:B:1641:TYR:N	2.23	0.52
2:G:378:ILE:HD11	2:G:398:LEU:HA	1.91	0.52
2:I:1175:MET:O	2:I:1192:LEU:HD12	2.10	0.52
1:A:746:PHE:CE1	1:A:800:PRO:HG3	2.44	0.52
1:D:407:ARG:NH1	1:D:1606:VAL:HG23	2.24	0.52
2:H:256:VAL:O	2:H:260:HIS:CD2	2.62	0.52
1:C:960:ARG:HG3	1:C:960:ARG:HH11	1.75	0.52
1:B:336:PHE:O	1:B:339:GLN:HB2	2.09	0.52
2:I:1554:PRO:HA	2:I:1659:ILE:HG12	1.90	0.52
2:I:1897:GLU:HG2	2:I:1901:GLN:NE2	2.25	0.52
1:C:1254:PHE:HB2	1:C:1257:THR:OG1	2.10	0.52
1:F:963:LEU:HD23	1:F:1023:GLU:HB3	1.90	0.52
1:F:1691:ILE:HG22	1:F:1695:VAL:HG23	1.91	0.52
2:G:952:ASP:OD1	2:G:953:PRO:HD2	2.09	0.52
2:J:656:ARG:HG2	2:J:656:ARG:NH1	2.23	0.52
2:L:930:THR:CG2	2:L:933:GLU:H	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:20:TYR:CE2	2:K:2062:THR:HG23	2.44	0.52
1:E:1079:ARG:CG	1:E:1079:ARG:NH1	2.70	0.52
1:F:1004:PRO:HD3	1:F:1572:TRP:CH2	2.44	0.52
2:G:1500:ASN:HB2	2:G:1503:VAL:H	1.74	0.52
2:K:1890:ARG:HB3	2:K:1994:ALA:HB2	1.92	0.52
2:J:1411:LYS:HB2	2:J:1439:TYR:CD1	2.44	0.52
1:C:767:HIS:CB	1:C:813:LEU:HD12	2.39	0.52
2:H:1725:HIS:CD2	2:H:1854:GLU:HB3	2.45	0.52
2:I:1053:ILE:HD11	2:I:1061:VAL:HG13	1.91	0.52
2:H:1074:LYS:HG3	2:H:1075:TYR:CD1	2.45	0.52
2:H:792:LEU:HD23	2:H:1094:HIS:CE1	2.44	0.52
2:L:35:PHE:CD2	2:L:37:VAL:HG22	2.44	0.52
1:F:1640:LYS:HG3	1:F:1641:TYR:HD1	1.73	0.52
2:G:1846:ALA:HB3	2:G:1847:LEU:HD12	1.91	0.52
2:J:1421:ARG:O	2:J:1421:ARG:HG2	2.06	0.52
1:B:546:ARG:HH11	1:B:631:LYS:HZ1	1.57	0.52
2:I:1324:PHE:N	2:I:1583:VAL:HG11	2.25	0.52
2:H:92:GLU:HA	2:H:95:HIS:CE1	2.45	0.52
2:J:1142:ILE:HG13	2:J:1209:PRO:HG3	1.92	0.52
1:F:1510:TRP:HZ3	1:F:1642:LEU:HA	1.74	0.52
1:C:418:ILE:HA	1:C:462:THR:HB	1.91	0.52
2:K:1643:VAL:CG1	2:K:1649:ILE:HD11	2.39	0.52
2:K:1377:SER:HB3	2:K:1432:GLN:HB2	1.91	0.52
2:K:1554:PRO:HA	2:K:1659:ILE:HG12	1.90	0.52
2:J:1017:LEU:HD21	2:J:1032:PRO:HB2	1.92	0.52
2:I:1403:ALA:HB2	2:I:1447:GLN:HG3	1.91	0.52
2:H:1157:VAL:HG13	2:H:1197:ALA:HA	1.90	0.52
2:H:728:ILE:HG22	2:H:732:LYS:HE3	1.90	0.52
2:I:834:ASP:O	2:I:836:PRO:HD3	2.10	0.52
1:D:1534:GLU:HG2	1:D:1625:PHE:CE1	2.45	0.52
2:J:1872:GLU:HA	2:J:1872:GLU:OE1	2.08	0.52
2:H:1279:GLU:H	2:H:1279:GLU:CD	2.12	0.52
1:B:88:ILE:HG21	2:H:1821:MET:CE	2.40	0.52
1:B:1451:LYS:HE2	1:B:1463:GLU:OE2	2.10	0.52
1:C:1686:PRO:HB2	1:C:1713:PHE:HD1	1.72	0.52
2:G:159:PHE:HA	2:G:162:ALA:HB3	1.92	0.52
2:K:1064:THR:HG22	2:K:1065:CYS:N	2.25	0.52
1:C:799:LEU:HD12	1:C:821:LEU:HB3	1.91	0.52
2:J:868:LEU:O	2:J:870:THR:HG23	2.09	0.52
2:J:1340:LYS:HE3	2:L:376:ARG:NH2	2.23	0.52
2:G:1410:GLY:HA3	2:G:1436:ARG:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1120:ILE:HD13	2:I:1173:HIS:CE1	2.45	0.52
1:B:452:ILE:HD12	1:B:467:LYS:HA	1.92	0.52
1:E:868:VAL:CG1	1:E:908:ILE:HD11	2.37	0.52
2:H:1464:LEU:HD13	2:H:1468:ARG:HG3	1.92	0.52
1:E:1037:ASN:CG	1:E:1674:ILE:HG23	2.30	0.52
2:H:388:ASN:HD22	2:H:389:PHE:N	2.07	0.52
1:D:551:LEU:C	1:D:551:LEU:HD23	2.29	0.52
2:H:789:TYR:CE1	2:H:1097:PHE:HB3	2.45	0.52
2:G:747:ARG:NH1	2:G:780:SER:HB3	2.24	0.52
1:D:405:TRP:CH2	1:D:1609:SER:HB3	2.43	0.52
2:G:792:LEU:HD12	2:G:792:LEU:O	2.09	0.52
2:J:138:ARG:HB3	2:J:192:THR:HG23	1.90	0.52
2:L:271:GLU:H	2:L:274:GLU:HG3	1.74	0.52
2:L:186:LEU:HD21	2:L:256:VAL:HG22	1.92	0.52
2:K:38:PRO:HG2	2:K:41:LEU:HD12	1.90	0.52
2:J:1653:LEU:CD2	2:J:1667:VAL:HG13	2.40	0.52
2:H:1554:PRO:HG3	2:H:1659:ILE:HD11	1.90	0.52
2:L:1653:LEU:CD2	2:L:1667:VAL:HG13	2.39	0.52
1:D:1001:GLU:O	1:D:1007:ASN:HA	2.10	0.52
2:L:1362:PHE:N	2:L:1363:PRO:HD2	2.24	0.52
2:I:1400:GLN:HG3	2:I:1448:ARG:HH12	1.74	0.52
2:J:1403:ALA:HB2	2:J:1447:GLN:HG3	1.92	0.52
1:C:1086:PHE:CE2	1:C:1310:PHE:HD2	2.27	0.52
2:J:2073:ASN:O	2:J:2076:LYS:HB3	2.09	0.52
2:H:1555:VAL:HG21	2:H:1824:LYS:HA	1.92	0.52
1:C:1095:GLN:O	1:C:1096:LEU:HD23	2.09	0.52
2:K:888:ARG:O	2:K:891:ARG:HB2	2.10	0.52
1:A:1691:ILE:HG22	1:A:1695:VAL:HG23	1.91	0.52
2:H:409:LYS:HB3	2:H:428:PHE:CZ	2.43	0.52
2:H:1231:THR:HG23	2:H:1595:VAL:CG2	2.34	0.52
2:H:1194:ARG:NH2	2:H:1601:ASN:CG	2.62	0.52
1:F:1079:ARG:CG	1:F:1079:ARG:NH1	2.63	0.52
1:A:427:ARG:NH1	1:A:427:ARG:HG3	2.06	0.52
2:K:917:ARG:HD3	2:K:937:ARG:CZ	2.40	0.52
2:I:524:ILE:HA	2:I:527:LEU:HD12	1.92	0.52
2:G:934:VAL:O	2:G:938:MET:HG3	2.09	0.52
1:A:631:LYS:O	1:A:635:ILE:HG22	2.09	0.52
2:H:1180:VAL:HG11	2:H:1187:PHE:CG	2.45	0.52
2:G:1009:ASN:HB2	2:G:1012:ASP:OD2	2.10	0.52
2:L:825:SER:CB	2:L:1053:ILE:HG13	2.40	0.52
2:I:931:TYR:O	2:I:935:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1445:THR:CG2	2:J:1498:PHE:HB2	2.40	0.52
2:G:2059:HIS:HB2	2:G:2067:ILE:HG21	1.92	0.52
2:K:2044:THR:HG22	2:K:2046:LYS:H	1.73	0.52
1:B:1213:VAL:CG1	1:B:1214:HIS:N	2.72	0.52
1:B:1223:GLY:CA	1:B:1276:PRO:HD2	2.40	0.52
2:J:727:VAL:HA	2:J:730:ILE:HG12	1.90	0.52
2:H:788:THR:HG22	2:H:1094:HIS:HE1	1.75	0.52
2:H:192:THR:O	2:H:194:PRO:HD3	2.10	0.52
2:L:1083:ILE:HA	2:L:1086:ILE:HG13	1.92	0.52
2:K:186:LEU:HD23	2:K:256:VAL:HG13	1.92	0.52
1:D:1032:MET:HE3	1:D:1165:PRO:HB3	1.92	0.52
2:I:388:ASN:HD22	2:I:389:PHE:N	2.08	0.52
2:K:271:GLU:HB2	2:K:274:GLU:HG3	1.92	0.52
1:D:1640:LYS:HG3	1:D:1641:TYR:HD1	1.72	0.52
2:L:83:VAL:O	2:L:87:VAL:HG23	2.10	0.52
2:K:1171:TRP:CD1	2:K:1172:ARG:N	2.78	0.52
2:J:571:ASP:OD1	2:J:573:VAL:HG23	2.09	0.52
2:I:190:TYR:CD1	2:I:201:ILE:HD13	2.43	0.52
1:C:843:VAL:O	1:C:843:VAL:HG22	2.09	0.52
1:C:888:ILE:HA	1:C:891:LEU:HD12	1.91	0.52
2:K:1750:GLY:O	2:K:1755:LYS:HE3	2.09	0.52
2:K:1751:GLY:O	2:K:1755:LYS:HG2	2.10	0.52
2:G:1947:LYS:HG2	2:G:1993:PHE:CD1	2.45	0.52
2:H:161:ALA:HB1	2:H:166:ASN:HB2	1.90	0.52
2:K:31:LEU:HB2	2:K:72:VAL:HG22	1.92	0.52
2:K:77:ALA:O	2:K:139:ALA:HB1	2.09	0.52
2:J:979:LEU:HB2	2:J:996:ILE:HG23	1.90	0.52
2:J:1224:GLN:OE1	2:J:1224:GLN:HA	2.09	0.52
2:L:1156:ASP:HB2	2:L:1159:SER:H	1.74	0.52
1:A:1038:HIS:O	1:A:1048:SER:HA	2.09	0.52
1:E:358:PHE:C	1:E:358:PHE:CD2	2.82	0.52
1:A:1501:ALA:O	1:A:1504:ARG:HB2	2.10	0.52
2:L:460:ILE:O	2:L:486:ILE:HB	2.09	0.52
1:B:1278:GLY:CA	1:B:1630:LYS:HE2	2.37	0.52
1:A:558:LEU:HB2	1:A:563:GLN:CG	2.36	0.52
2:G:374:GLU:CA	2:G:377:HIS:CD2	2.81	0.52
2:I:600:VAL:HG13	2:I:601:PRO:N	2.24	0.52
2:K:2062:THR:HG22	2:K:2063:GLY:N	2.24	0.52
2:H:172:ILE:HG22	2:H:514:VAL:O	2.09	0.52
2:H:938:MET:O	2:H:942:MET:HG3	2.10	0.52
2:I:1610:MET:CA	2:I:1610:MET:HE2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:636:TYR:CZ	1:F:640:LEU:HD22	2.44	0.52
1:C:1670:HIS:CE1	2:I:1009:ASN:ND2	2.77	0.52
2:L:2044:THR:HG22	2:L:2046:LYS:H	1.74	0.52
2:G:376:ARG:HE	2:H:1339:GLY:HA2	1.74	0.52
1:B:905:LEU:HD22	1:B:911:LEU:CD2	2.38	0.52
2:K:825:SER:CB	2:K:1053:ILE:HG13	2.39	0.52
2:H:747:ARG:NH1	2:H:780:SER:O	2.43	0.52
2:I:663:ILE:HD12	2:I:663:ILE:N	2.22	0.52
2:J:1074:LYS:HE3	2:J:1075:TYR:CE1	2.41	0.52
2:J:1074:LYS:HG3	2:J:1075:TYR:CD1	2.45	0.52
1:A:1052:ASP:O	1:A:1055:THR:O	2.28	0.52
2:H:741:LEU:O	2:H:741:LEU:CG	2.58	0.52
1:C:1183:VAL:HG13	1:C:1252:GLU:OE1	2.10	0.52
2:J:186:LEU:HD21	2:J:256:VAL:HG22	1.89	0.52
1:E:1218:VAL:HG22	1:E:1301:VAL:CG1	2.40	0.52
2:G:789:TYR:CE1	2:G:1097:PHE:HB3	2.45	0.52
2:L:820:LYS:HG3	2:L:821:GLU:HG2	1.92	0.52
2:L:378:ILE:HG23	2:L:391:VAL:CG1	2.39	0.52
2:K:1229:VAL:HG12	2:K:1230:LYS:N	2.25	0.52
2:G:21:LEU:HD13	2:G:36:LEU:HD21	1.91	0.52
1:A:1386:THR:HB	1:E:1269:SER:O	2.09	0.52
2:G:875:PHE:O	2:G:878:GLU:HB2	2.09	0.52
1:E:15:VAL:HG11	2:K:2022:LEU:HD21	1.91	0.52
2:I:378:ILE:HG23	2:I:391:VAL:CG1	2.40	0.52
1:B:1113:LYS:O	1:B:1117:GLU:HG3	2.10	0.52
2:K:1517:LEU:HD12	2:K:1521:GLU:HB2	1.90	0.52
1:B:1337:PRO:HA	1:B:1340:MET:HG3	1.92	0.52
2:I:1207:THR:O	2:I:1215:THR:HG23	2.09	0.52
1:C:1164:ILE:CD1	1:C:1355:GLN:HG3	2.39	0.52
2:K:1963:GLU:HA	2:K:1966:ARG:HB3	1.90	0.52
2:J:1753:ARG:HG3	2:J:1756:ILE:CD1	2.40	0.52
2:G:161:ALA:HB1	2:G:166:ASN:HB2	1.92	0.52
1:E:662:ALA:HA	1:E:694:TYR:CZ	2.44	0.52
1:C:411:LEU:HD22	1:C:1612:ILE:HD13	1.91	0.52
1:C:565:GLN:HG2	1:C:565:GLN:O	2.09	0.52
2:K:699:ILE:HD12	2:K:699:ILE:H	1.74	0.52
2:L:1157:VAL:HG22	2:L:1198:PRO:HD2	1.92	0.52
1:A:799:LEU:HD12	1:A:821:LEU:HB3	1.91	0.52
1:F:1451:LYS:HA	1:F:1454:ARG:NH2	2.25	0.52
2:K:930:THR:O	2:K:934:VAL:HG23	2.09	0.52
2:L:158:LEU:HD22	2:L:169:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:907:ASN:OD1	2:L:913:VAL:HG12	2.09	0.52
2:G:582:LYS:HG3	2:G:1110:VAL:HG11	1.92	0.52
2:K:250:PHE:O	2:K:315:LEU:HD23	2.10	0.52
2:J:911:GLN:NE2	2:J:1065:CYS:H	2.08	0.52
2:I:1115:TYR:OH	2:I:1173:HIS:HD2	1.93	0.52
2:G:1299:VAL:HG13	2:G:1301:PHE:CE1	2.45	0.52
1:A:1565:PRO:O	1:A:1566:LYS:C	2.47	0.52
2:G:460:ILE:O	2:G:486:ILE:HB	2.08	0.52
2:J:251:PRO:HG3	2:J:316:PHE:CA	2.39	0.52
2:H:1288:PHE:CE2	2:H:1292:VAL:HG21	2.45	0.52
2:J:820:LYS:HB3	2:J:1080:ASP:O	2.10	0.52
2:H:662:LEU:HD22	2:H:673:GLN:OE1	2.10	0.52
1:A:767:HIS:CG	1:A:813:LEU:HD12	2.45	0.52
1:A:1213:VAL:HG22	1:A:1300:ARG:CZ	2.40	0.52
1:D:1211:LYS:HE3	1:D:1711:LEU:HD21	1.92	0.52
1:D:962:ASN:CB	2:J:969:ARG:HD2	2.40	0.52
2:J:1171:TRP:CD1	2:J:1172:ARG:N	2.78	0.52
2:H:271:GLU:H	2:H:274:GLU:HG3	1.75	0.52
2:K:792:LEU:HD23	2:K:1094:HIS:CE1	2.45	0.52
2:G:1804:GLN:HB3	2:G:1861:PHE:CE1	2.45	0.52
1:A:1512:LEU:HD21	1:A:1641:TYR:CE2	2.45	0.52
2:K:24:LEU:HD12	2:K:37:VAL:CG2	2.40	0.52
2:L:1229:VAL:HG12	2:L:1230:LYS:N	2.23	0.52
2:J:35:PHE:HZ	2:J:104:LEU:HB3	1.75	0.52
1:A:551:LEU:HD21	1:F:562:SER:CB	2.39	0.52
2:K:1653:LEU:HD21	2:K:1667:VAL:HG13	1.92	0.52
1:A:1323:ALA:HB1	1:A:1351:PHE:CE2	2.45	0.52
1:E:766:ALA:HA	1:E:769:ILE:HD12	1.92	0.52
1:F:1084:GLU:H	1:F:1084:GLU:CD	2.13	0.52
2:L:935:VAL:HG11	2:L:997:LEU:HD21	1.92	0.52
1:C:519:PHE:O	1:C:523:VAL:HG23	2.09	0.52
2:J:1248:GLU:HA	2:J:1248:GLU:OE1	2.10	0.52
2:L:735:PRO:HA	2:L:773:ASN:OD1	2.10	0.52
2:G:979:LEU:HB2	2:G:996:ILE:HG23	1.92	0.52
2:H:656:ARG:HG2	2:H:656:ARG:NH1	2.24	0.52
2:K:938:MET:HE2	2:K:959:THR:HG22	1.91	0.52
2:J:752:HIS:CE1	2:J:856:THR:HG21	2.45	0.52
1:E:997:THR:CG2	1:E:1361:VAL:HG22	2.40	0.52
1:A:997:THR:CG2	1:A:1361:VAL:HG22	2.40	0.52
1:C:529:GLY:HA3	1:C:611:THR:CG2	2.40	0.52
2:J:285:HIS:CD2	2:J:501:TRP:CE3	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1500:ASN:HB2	2:K:1503:VAL:H	1.76	0.52
2:G:250:PHE:CB	2:G:251:PRO:HD3	2.40	0.52
1:F:26:VAL:CG2	2:L:2006:HIS:CE1	2.93	0.52
1:F:22:PHE:HE2	2:L:2017:PHE:CB	2.22	0.52
1:F:1580:VAL:O	1:F:1617:ILE:HD11	2.09	0.52
2:H:2005:PHE:HA	2:H:2010:LEU:HD11	1.92	0.52
2:H:1795:SER:HB3	2:H:1799:LEU:HD12	1.92	0.52
2:I:1725:HIS:CD2	2:I:1854:GLU:CB	2.93	0.52
1:A:1032:MET:HE2	1:A:1165:PRO:HB3	1.92	0.52
1:A:983:GLN:O	1:A:987:MET:HG3	2.10	0.52
1:E:408:GLN:HG2	1:E:1610:ARG:NH1	2.25	0.52
2:L:1171:TRP:CH2	2:L:1236:LEU:HB2	2.44	0.52
2:L:271:GLU:HB2	2:L:274:GLU:HG3	1.92	0.52
1:C:983:GLN:O	1:C:987:MET:HG3	2.10	0.52
2:H:1305:LEU:HD23	2:H:1366:ILE:HD11	1.92	0.52
2:J:22:ARG:HD2	2:J:42:HIS:HB3	1.92	0.52
2:J:699:ILE:HD12	2:J:699:ILE:N	2.24	0.52
1:B:1323:ALA:HB1	1:B:1351:PHE:CE2	2.45	0.52
2:K:979:LEU:HB2	2:K:996:ILE:HG23	1.92	0.52
2:K:776:LEU:HG	2:K:807:PHE:CE2	2.45	0.52
1:E:799:LEU:HD12	1:E:821:LEU:HB3	1.91	0.52
2:I:713:HIS:CD2	2:I:740:ILE:HD13	2.45	0.52
2:I:204:ILE:HG23	2:I:312:VAL:HG11	1.91	0.52
2:I:161:ALA:HB1	2:I:166:ASN:HB2	1.91	0.52
1:A:1014:MET:O	1:A:1590:ARG:NH2	2.37	0.52
2:L:1231:THR:CG2	2:L:1595:VAL:HG11	2.39	0.51
2:L:1232:VAL:HA	2:L:1245:THR:O	2.10	0.51
2:I:726:GLN:O	2:I:730:ILE:HG12	2.10	0.51
2:K:1026:LYS:HE2	2:K:1045:ASP:OD2	2.10	0.51
2:K:608:MET:HA	4:K:2101:FMN:N5	2.25	0.51
2:L:600:VAL:HG13	2:L:601:PRO:N	2.25	0.51
2:L:930:THR:HA	2:L:1007:LEU:HA	1.90	0.51
1:A:907:PHE:O	1:A:909:PRO:HD3	2.10	0.51
2:L:825:SER:O	2:L:828:ALA:HB3	2.10	0.51
2:H:43:PHE:CD1	2:I:22:ARG:CZ	2.92	0.51
2:H:2044:THR:HG22	2:H:2046:LYS:H	1.75	0.51
1:D:911:LEU:HD12	1:D:911:LEU:O	2.09	0.51
2:J:289:ILE:HG12	2:J:493:MET:CE	2.40	0.51
2:J:1370:LEU:CD1	2:J:1373:LEU:HD13	2.38	0.51
2:G:1986:PRO:O	2:G:1987:VAL:HB	2.11	0.51
1:A:469:LEU:O	1:A:472:GLN:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:44:GLN:HG3	2:K:101:VAL:CG2	2.39	0.51
1:D:1179:ILE:O	1:D:1183:VAL:HG23	2.10	0.51
2:G:1203:TYR:HB3	2:G:1220:ARG:HB2	1.91	0.51
1:C:1213:VAL:HG13	1:C:1217:GLU:HB2	1.92	0.51
2:J:21:LEU:HA	2:J:37:VAL:O	2.10	0.51
2:I:1324:PHE:HA	2:I:1583:VAL:HG11	1.92	0.51
2:J:1643:VAL:CG1	2:J:1649:ILE:HD11	2.40	0.51
2:K:1369:ASP:OD1	2:K:1371:LEU:HB3	2.10	0.51
2:K:1740:ASN:O	2:K:1742:PRO:HD3	2.10	0.51
2:J:1128:PRO:HG2	2:J:1135:ALA:CB	2.41	0.51
2:K:2053:GLU:HA	2:K:2056:GLU:OE1	2.10	0.51
1:A:1090:ASP:OD1	1:A:1092:ASN:HB2	2.10	0.51
1:F:1014:MET:O	1:F:1590:ARG:NH2	2.37	0.51
1:A:1606:VAL:O	1:A:1608:PRO:HD3	2.10	0.51
1:F:36:LEU:HD21	1:F:44:ILE:HD11	1.92	0.51
2:H:1017:LEU:O	2:H:1021:GLN:HG3	2.10	0.51
2:G:505:THR:HG22	2:G:505:THR:O	2.09	0.51
2:J:834:ASP:O	2:J:836:PRO:HD3	2.10	0.51
1:F:1168:TRP:NE1	1:F:1173:TYR:HE1	2.07	0.51
1:D:1514:ILE:HD13	1:D:1545:LEU:HB3	1.91	0.51
2:L:325:ALA:HB2	2:L:447:ALA:HB2	1.93	0.51
2:H:290:VAL:HG13	2:H:314:LEU:HD23	1.92	0.51
2:L:752:HIS:NE2	2:L:856:THR:HG22	2.25	0.51
2:H:818:THR:HA	2:H:829:LYS:HE2	1.93	0.51
2:H:928:ASP:HA	2:H:1007:LEU:HD23	1.92	0.51
2:G:285:HIS:CD2	2:G:501:TRP:CE3	2.99	0.51
2:G:1890:ARG:HB3	2:G:1994:ALA:HB2	1.93	0.51
2:L:2057:GLU:HA	2:L:2060:ARG:HH12	1.74	0.51
2:I:38:PRO:HG2	2:I:41:LEU:HD12	1.91	0.51
2:K:824:THR:HG22	2:K:828:ALA:HB3	1.92	0.51
1:A:408:GLN:HE22	1:A:1610:ARG:H	1.58	0.51
1:C:1580:VAL:O	1:C:1617:ILE:HD11	2.09	0.51
2:L:1074:LYS:HG3	2:L:1075:TYR:CD1	2.45	0.51
1:C:1674:ILE:HD12	2:I:1010:ALA:CB	2.40	0.51
2:I:1468:ARG:NH1	2:I:1475:LEU:HD22	2.25	0.51
2:K:1411:LYS:HB3	2:K:1435:TYR:HB2	1.90	0.51
1:C:21:GLN:O	2:I:2006:HIS:HD2	1.93	0.51
2:L:388:ASN:HD22	2:L:389:PHE:N	2.09	0.51
1:B:759:ILE:HG12	1:B:813:LEU:HD23	1.93	0.51
2:H:192:THR:C	2:H:194:PRO:HD3	2.29	0.51
1:E:1337:PRO:HA	1:E:1340:MET:CG	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:271:GLU:HB2	2:H:274:GLU:HG3	1.92	0.51
2:J:76:VAL:O	2:J:80:ILE:HG13	2.11	0.51
2:G:256:VAL:O	2:G:260:HIS:CD2	2.63	0.51
2:K:411:PRO:HD2	2:K:414:LEU:CD1	2.39	0.51
2:J:1963:GLU:HA	2:J:1966:ARG:HB3	1.92	0.51
2:L:966:VAL:O	2:L:970:PHE:HD1	1.94	0.51
1:F:1307:PHE:HB3	1:F:1357:CYS:HB2	1.92	0.51
2:G:616:ASP:OD2	2:G:823:HIS:NE2	2.44	0.51
2:H:1142:ILE:HG13	2:H:1209:PRO:HG3	1.92	0.51
2:G:861:MET:HB2	2:G:863:GLU:HG2	1.91	0.51
2:H:962:PHE:O	2:H:965:ARG:HB3	2.10	0.51
2:L:931:TYR:O	2:L:935:VAL:HG12	2.10	0.51
1:B:754:ARG:N	1:B:810:ASN:HB3	2.25	0.51
2:L:1729:ASN:O	2:L:1757:ILE:HG23	2.10	0.51
1:A:828:TRP:HE1	1:A:838:THR:HA	1.74	0.51
1:F:1393:VAL:N	1:F:1394:PRO:CD	2.73	0.51
1:C:687:PHE:CD2	1:C:687:PHE:C	2.84	0.51
2:K:155:ASP:HB3	2:K:278:ARG:NH1	2.25	0.51
2:J:1232:VAL:HA	2:J:1245:THR:O	2.11	0.51
2:I:613:VAL:N	2:I:614:PRO:CD	2.73	0.51
2:K:928:ASP:HA	2:K:1007:LEU:HD23	1.92	0.51
2:L:752:HIS:CE1	2:L:856:THR:HG21	2.45	0.51
2:K:489:GLU:O	2:K:493:MET:HG3	2.11	0.51
2:I:1411:LYS:HB2	2:I:1439:TYR:CD1	2.45	0.51
1:F:673:LEU:HD21	1:F:884:MET:CE	2.41	0.51
2:J:460:ILE:O	2:J:486:ILE:HB	2.10	0.51
2:K:1288:PHE:CE2	2:K:1292:VAL:HG21	2.44	0.51
2:I:208:LEU:HD12	2:I:227:ILE:CD1	2.38	0.51
2:G:1872:GLU:OE1	2:G:1872:GLU:HA	2.09	0.51
2:G:1421:ARG:HD2	2:G:1426:VAL:CG2	2.40	0.51
1:E:1218:VAL:O	1:E:1271:GLY:HA3	2.09	0.51
2:G:580:LEU:HD21	2:G:1095:ILE:HA	1.91	0.51
2:K:1299:VAL:HG22	2:K:1301:PHE:CD1	2.46	0.51
2:G:1175:MET:HA	2:G:1274:ILE:CD1	2.40	0.51
1:D:843:VAL:O	1:D:843:VAL:HG22	2.10	0.51
2:G:1266:HIS:CD2	2:G:1275:ARG:CZ	2.94	0.51
2:J:92:GLU:HB3	2:J:95:HIS:NE2	2.26	0.51
2:I:699:ILE:HD12	2:I:699:ILE:N	2.26	0.51
2:I:580:LEU:HD21	2:I:1095:ILE:HA	1.91	0.51
2:H:325:ALA:HB2	2:H:447:ALA:HB2	1.92	0.51
1:B:448:MET:HA	1:B:448:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1028:VAL:HG13	2:L:1030:PHE:CD2	2.46	0.51
1:A:995:VAL:HG13	1:A:1375:ILE:HG23	1.92	0.51
2:J:1473:PHE:HE1	2:J:1513:VAL:HG21	1.75	0.51
2:J:1369:ASP:OD1	2:J:1371:LEU:HB3	2.10	0.51
2:G:1402:ASN:ND2	2:G:1416:CYS:HB2	2.25	0.51
1:B:943:VAL:CG2	2:H:1539:PRO:HG3	2.40	0.51
2:L:1217:ILE:O	2:L:1233:GLU:HA	2.10	0.51
1:F:1254:PHE:HB2	1:F:1257:THR:OG1	2.10	0.51
2:H:1594:ARG:CG	2:H:1594:ARG:NH1	2.64	0.51
2:J:1047:LEU:H	2:J:1047:LEU:HD12	1.76	0.51
2:I:917:ARG:HD3	2:I:937:ARG:CZ	2.39	0.51
1:C:427:ARG:NH1	1:C:492:ILE:HG12	2.25	0.51
1:D:1670:HIS:CE1	2:J:1009:ASN:ND2	2.79	0.51
2:I:285:HIS:CD2	2:I:501:TRP:CE3	2.98	0.51
2:H:285:HIS:CD2	2:H:501:TRP:CE3	2.98	0.51
1:D:833:TRP:HH2	1:D:839:ILE:HD11	1.76	0.51
2:I:2062:THR:HG22	2:I:2063:GLY:N	2.24	0.51
1:D:498:THR:HG21	1:D:858:LEU:O	2.11	0.51
1:B:1565:PRO:O	1:B:1567:GLY:N	2.43	0.51
2:K:2013:GLY:C	2:K:2016:PRO:HD2	2.31	0.51
1:A:1584:GLY:HA2	1:A:1617:ILE:CD1	2.41	0.51
2:H:837:GLY:HA3	2:H:1074:LYS:HG2	1.91	0.51
2:K:1986:PRO:O	2:K:1987:VAL:HB	2.10	0.51
1:B:1386:THR:HG22	1:B:1629:GLN:HE21	1.74	0.51
1:A:1494:TRP:HE1	1:A:1509:THR:HG21	1.74	0.51
2:K:1551:ILE:CG2	2:K:1552:GLU:N	2.73	0.51
2:H:21:LEU:HD13	2:H:36:LEU:HD21	1.93	0.51
2:K:1093:ASP:O	2:K:1097:PHE:HD1	1.93	0.51
1:F:570:TYR:CE1	1:F:574:ILE:HD11	2.45	0.51
1:C:1386:THR:HG22	1:C:1629:GLN:HE21	1.76	0.51
2:H:1171:TRP:CH2	2:H:1236:LEU:HB2	2.45	0.51
2:I:1104:ASP:N	2:I:1104:ASP:OD1	2.44	0.51
1:C:1323:ALA:HB1	1:C:1351:PHE:CE2	2.45	0.51
1:A:1113:LYS:O	1:A:1117:GLU:HG3	2.10	0.51
1:F:1131:GLU:HG2	1:F:1138:TYR:CE2	2.46	0.51
1:C:1473:HIS:CD2	1:F:1414:PRO:HG2	2.45	0.51
1:F:1186:VAL:HG23	1:F:1309:ASP:HB2	1.92	0.51
2:J:1725:HIS:CD2	2:J:1854:GLU:HB3	2.46	0.51
1:E:956:ILE:HA	2:K:977:PRO:HA	1.93	0.51
2:I:1753:ARG:HG3	2:I:1756:ILE:HD11	1.93	0.51
1:E:904:GLY:HA2	1:E:906:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1090:ASP:OD1	1:E:1092:ASN:HB2	2.10	0.51
1:A:1448:ALA:CA	1:A:1451:LYS:HE3	2.35	0.51
1:D:1451:LYS:HE2	1:D:1463:GLU:OE2	2.10	0.51
2:I:752:HIS:CE1	2:I:856:THR:HG21	2.46	0.51
2:H:459:LYS:O	2:H:461:PRO:HD3	2.11	0.51
1:B:1108:PRO:HA	1:B:1140:VAL:O	2.09	0.51
1:A:558:LEU:HA	1:F:557:ARG:NH1	2.25	0.51
2:J:1610:MET:CA	2:J:1610:MET:HE2	2.28	0.51
1:E:628:TYR:OH	1:E:630:LYS:HE2	2.10	0.51
2:K:376:ARG:HH22	2:L:1340:LYS:HE3	1.75	0.51
1:A:965:TYR:OH	1:A:1199:LEU:HD22	2.09	0.51
2:J:1064:THR:HG22	2:J:1065:CYS:N	2.25	0.51
1:A:1218:VAL:O	1:A:1271:GLY:HA3	2.11	0.51
1:A:868:VAL:CG1	1:A:908:ILE:HD11	2.36	0.51
1:B:498:THR:HG21	1:B:858:LEU:O	2.11	0.51
2:K:718:PRO:HG3	2:K:727:VAL:HG21	1.92	0.51
2:H:1891:ILE:HD12	2:H:1895:PHE:CE2	2.45	0.51
2:G:1411:LYS:HB3	2:G:1435:TYR:HB2	1.91	0.51
2:G:1350:ILE:HG22	2:G:1429:VAL:HG11	1.93	0.51
1:F:1042:LEU:HD12	1:F:1058:PRO:HG3	1.92	0.51
1:C:1505:GLY:O	1:C:1509:THR:HG23	2.10	0.51
1:B:1640:LYS:HG3	1:B:1641:TYR:HD1	1.73	0.51
1:C:1213:VAL:CG1	1:C:1214:HIS:N	2.74	0.51
2:G:857:VAL:CG1	2:G:876:TRP:NE1	2.74	0.51
2:J:350:MET:HG3	2:J:435:ILE:CG2	2.41	0.51
2:G:350:MET:HG3	2:G:435:ILE:CG2	2.40	0.51
2:I:1982:ALA:O	2:I:1984:PRO:HD3	2.10	0.51
1:D:782:LYS:NZ	1:D:786:LYS:HD2	2.26	0.51
2:J:1217:ILE:O	2:J:1233:GLU:HA	2.10	0.51
1:C:24:MET:HE2	2:I:2043:VAL:HG12	1.93	0.51
1:A:450:TYR:C	1:A:450:TYR:CD2	2.84	0.51
2:G:196:PHE:H	2:G:196:PHE:HD2	1.56	0.51
1:E:1050:TRP:HA	1:E:1050:TRP:CE3	2.46	0.51
2:J:272:PRO:HG2	2:J:300:THR:O	2.10	0.51
2:G:752:HIS:NE2	2:G:856:THR:HG21	2.26	0.51
2:G:613:VAL:N	2:G:614:PRO:CD	2.73	0.51
1:B:579:MET:HE2	1:E:612:ILE:HD12	1.91	0.51
2:L:751:HIS:HB2	3:L:2102:NAP:N7N	2.24	0.51
2:L:501:TRP:NE1	2:L:528:THR:CG2	2.72	0.51
1:A:628:TYR:OH	1:A:630:LYS:HE2	2.09	0.51
2:I:1637:VAL:HG11	2:I:1679:LEU:CD1	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:376:ARG:HH22	2:H:1340:LYS:HE3	1.75	0.51
1:E:1565:PRO:O	1:E:1567:GLY:N	2.44	0.51
1:F:684:THR:HG21	1:F:691:VAL:HG11	1.93	0.51
2:J:250:PHE:CB	2:J:251:PRO:HD3	2.41	0.51
2:L:1932:ASP:O	2:L:1936:LEU:HD23	2.10	0.51
1:B:1213:VAL:HG22	1:B:1300:ARG:CZ	2.40	0.51
1:C:1306:GLY:O	1:C:1357:CYS:HB2	2.10	0.51
1:D:853:MET:HG2	1:D:856:ASN:ND2	2.26	0.51
2:K:21:LEU:HD13	2:K:36:LEU:HD21	1.92	0.51
2:H:1324:PHE:HA	2:H:1583:VAL:HG11	1.93	0.51
1:D:1113:LYS:O	1:D:1117:GLU:HG3	2.10	0.51
2:H:699:ILE:H	2:H:699:ILE:CD1	2.24	0.51
1:E:336:PHE:O	1:E:339:GLN:HB2	2.10	0.51
2:K:1142:ILE:HG13	2:K:1209:PRO:HG3	1.92	0.51
1:F:1514:ILE:O	1:F:1547:ARG:NH1	2.43	0.51
1:C:418:ILE:O	1:C:418:ILE:HG22	2.11	0.51
1:F:890:ASN:OD1	2:G:1755:LYS:HE2	2.09	0.51
1:A:988:VAL:HG12	1:A:990:LEU:HD23	1.92	0.51
2:L:1384:PRO:HB3	2:L:1829:ARG:NH1	2.26	0.51
2:L:1384:PRO:CB	2:L:1829:ARG:HH12	2.24	0.51
2:L:1887:ASN:OD1	2:L:1889:SER:HB2	2.11	0.51
1:C:1132:ILE:HD12	1:C:1137:GLN:HB2	1.90	0.51
2:L:283:THR:HG23	2:L:470:TYR:O	2.11	0.51
2:J:1123:ALA:O	2:J:1126:GLU:HG3	2.11	0.51
1:A:1083:PRO:HD2	1:A:1084:GLU:OE2	2.10	0.51
1:D:857:ASN:HA	1:D:860:ALA:HB2	1.92	0.51
2:G:187:ARG:NH2	2:G:230:TRP:O	2.44	0.51
2:J:735:PRO:HA	2:J:773:ASN:OD1	2.10	0.51
2:L:700:GLU:CD	2:L:700:GLU:H	2.14	0.51
1:C:1014:MET:O	1:C:1590:ARG:NH2	2.38	0.51
1:E:36:LEU:HD22	1:E:61:LEU:HD21	1.93	0.51
1:B:1542:LEU:HD22	1:B:1547:ARG:HD3	1.92	0.51
1:A:1451:LYS:HA	1:A:1454:ARG:NH2	2.26	0.51
2:I:1246:LEU:HD11	2:I:1261:PHE:HE1	1.75	0.51
2:L:608:MET:H	2:L:612:THR:CB	2.23	0.51
2:H:600:VAL:HG13	2:H:601:PRO:N	2.26	0.51
2:G:751:HIS:HB2	3:G:2102:NAP:N7N	2.26	0.51
2:I:24:LEU:HD12	2:I:37:VAL:CG2	2.40	0.51
2:H:43:PHE:CE1	2:I:42:HIS:CE1	2.98	0.51
1:C:1367:LEU:HD22	1:C:1371:MET:HG3	1.92	0.51
2:K:605:VAL:CB	2:K:628:ILE:HG13	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:914:TRP:CD1	2:K:916:GLY:HA3	2.45	0.51
2:L:903:ILE:HD11	2:L:914:TRP:CZ2	2.45	0.51
2:L:783:GLY:HA3	2:L:1075:TYR:CB	2.37	0.51
2:J:1370:LEU:CA	2:J:1435:TYR:HE2	2.24	0.51
2:J:1436:ARG:HH22	2:J:1602:LEU:CD1	2.24	0.51
2:L:1770:ASN:HB2	2:L:1776:LYS:CE	2.39	0.51
2:J:1028:VAL:HG13	2:J:1030:PHE:CD2	2.46	0.51
2:J:718:PRO:HG3	2:J:727:VAL:HG21	1.90	0.51
2:K:2021:LEU:O	2:K:2025:ILE:HG13	2.09	0.51
2:H:1175:MET:HA	2:H:1274:ILE:CD1	2.41	0.51
2:H:1175:MET:HE1	2:H:1234:ILE:HG21	1.91	0.51
2:K:1203:TYR:HB3	2:K:1220:ARG:HB2	1.91	0.51
2:J:35:PHE:CE1	2:J:105:ILE:HD13	2.46	0.51
2:H:1229:VAL:HG12	2:H:1230:LYS:N	2.25	0.51
2:K:912:LYS:HB3	2:K:1030:PHE:HA	1.93	0.51
2:J:1805:PHE:O	2:J:1808:PRO:HD2	2.11	0.51
1:B:441:ASN:HB2	1:B:444:LEU:H	1.76	0.51
2:L:1175:MET:HA	2:L:1274:ILE:CD1	2.40	0.51
2:G:1157:VAL:HG13	2:G:1197:ALA:HA	1.92	0.51
1:E:571:LYS:O	1:E:575:ARG:HG2	2.11	0.51
1:D:1691:ILE:HG22	1:D:1695:VAL:HG23	1.92	0.51
1:E:329:THR:O	1:E:332:GLN:HB2	2.10	0.51
1:F:875:GLU:O	1:F:878:PHE:HB3	2.11	0.51
1:F:960:ARG:HH11	1:F:960:ARG:HG3	1.76	0.51
1:F:988:VAL:HG12	1:F:990:LEU:HD23	1.92	0.51
1:E:536:SER:HB3	1:E:540:LYS:HD2	1.92	0.51
1:C:6:GLU:HA	2:I:2050:ILE:HD11	1.92	0.51
2:J:1067:LEU:HB2	4:J:2101:FMN:HM71	1.92	0.51
2:H:911:GLN:NE2	2:H:1065:CYS:H	2.09	0.51
2:J:825:SER:O	2:J:828:ALA:HB3	2.10	0.51
1:D:673:LEU:HD21	1:D:884:MET:CE	2.41	0.51
1:B:911:LEU:O	1:B:911:LEU:HD12	2.11	0.51
1:F:868:VAL:CG1	1:F:908:ILE:HD11	2.34	0.51
2:L:1405:ILE:HA	2:L:1445:THR:OG1	2.11	0.51
2:J:1099:LEU:HD12	2:J:1103:TYR:CB	2.40	0.51
2:L:1930:ALA:HB1	2:L:2004:PRO:HB3	1.93	0.51
2:J:1764:MET:HG3	2:J:1781:PHE:HE1	1.76	0.51
2:K:1411:LYS:HE3	2:K:1441:ASP:OD2	2.11	0.51
2:K:1725:HIS:CD2	2:K:1854:GLU:HB3	2.46	0.51
2:I:1709:TYR:CD2	2:I:1709:TYR:C	2.83	0.51
1:C:846:TRP:HZ2	1:C:856:ASN:O	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:271:GLU:HB2	2:J:274:GLU:HG3	1.93	0.51
1:F:506:ILE:HD11	1:F:926:SER:CB	2.38	0.51
2:K:788:THR:HG22	2:K:1094:HIS:HE1	1.74	0.51
2:H:1171:TRP:CD1	2:H:1172:ARG:N	2.78	0.51
2:H:379:GLY:O	2:H:391:VAL:HG13	2.11	0.51
2:H:784:GLY:HA3	2:H:786:GLU:OE2	2.10	0.51
2:I:1083:ILE:HA	2:I:1086:ILE:HG13	1.92	0.51
1:F:987:MET:O	1:F:1490:GLY:HA3	2.11	0.51
2:L:159:PHE:HA	2:L:162:ALA:HB3	1.91	0.51
2:K:1521:GLU:OE2	2:K:2028:THR:HG21	2.11	0.51
2:H:1947:LYS:HG2	2:H:1993:PHE:CD1	2.46	0.51
2:J:202:THR:O	2:J:206:GLU:HG3	2.11	0.51
2:I:861:MET:HB2	2:I:863:GLU:HG2	1.91	0.51
2:K:327:PRO:HD2	2:L:1338:ARG:HH21	1.75	0.51
2:H:980:LEU:HD22	2:H:986:LEU:HD21	1.93	0.51
1:F:537:ASN:O	1:F:541:VAL:HG23	2.10	0.51
2:J:1586:ASP:OD1	2:J:1588:ASN:HB2	2.11	0.51
2:I:1217:ILE:O	2:I:1233:GLU:HA	2.11	0.51
1:F:1001:GLU:HG2	1:F:1008:ALA:HB2	1.92	0.51
2:G:1362:PHE:N	2:G:1363:PRO:HD2	2.25	0.51
1:F:929:ARG:O	1:F:933:ILE:HG13	2.11	0.51
1:F:751:GLU:OE1	1:F:770:MET:HE1	2.11	0.51
2:J:1156:ASP:HB2	2:J:1159:SER:H	1.74	0.51
2:H:281:GLY:HA3	2:H:470:TYR:HE1	1.76	0.51
2:G:1574:PRO:HD3	2:G:1611:TYR:CE2	2.46	0.51
1:D:1068:TYR:O	1:D:1072:ILE:HG13	2.11	0.51
2:G:1555:VAL:O	2:G:1555:VAL:HG12	2.10	0.51
1:A:1229:THR:HB	1:A:1311:GLN:HG3	1.92	0.51
2:H:735:PRO:HA	2:H:773:ASN:OD1	2.10	0.51
2:L:1375:HIS:CE1	2:L:1610:MET:SD	3.03	0.51
1:A:1107:GLU:HG3	1:A:1108:PRO:CD	2.37	0.51
1:A:1108:PRO:HA	1:A:1140:VAL:O	2.09	0.51
2:I:929:MET:HE1	2:I:934:VAL:HG22	1.92	0.51
1:A:881:LEU:O	1:A:884:MET:HB2	2.11	0.51
1:E:1708:ASN:OD1	1:E:1708:ASN:N	2.40	0.51
2:I:1251:THR:HG22	2:I:1292:VAL:HG13	1.93	0.51
1:A:973:TRP:NE1	1:A:1648:LYS:HB2	2.25	0.51
2:L:1725:HIS:CD2	2:L:1854:GLU:HB3	2.45	0.51
2:I:159:PHE:HA	2:I:162:ALA:HB3	1.92	0.51
2:I:779:GLY:HA3	2:I:811:MET:CE	2.38	0.51
2:J:1410:GLY:HA3	2:J:1436:ARG:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1986:PRO:O	2:J:1987:VAL:HB	2.11	0.51
2:L:2039:TYR:O	2:L:2041:PRO:HD3	2.10	0.51
2:G:1375:HIS:CE1	2:G:1610:MET:SD	3.02	0.51
2:J:756:ASP:CA	2:J:843:TRP:HH2	2.24	0.51
2:K:788:THR:CG2	2:K:1094:HIS:CE1	2.94	0.51
2:K:35:PHE:HD2	2:K:37:VAL:HG22	1.76	0.51
2:I:1192:LEU:HD22	2:I:1196:PHE:HE1	1.76	0.51
2:K:781:GLY:CA	2:K:1071:VAL:HG13	2.41	0.51
2:J:1947:LYS:HG2	2:J:1993:PHE:CD1	2.46	0.51
2:K:912:LYS:NZ	2:K:1044:LYS:O	2.44	0.51
2:G:731:ALA:HA	2:G:739:ILE:CD1	2.40	0.51
2:K:1175:MET:O	2:K:1192:LEU:HD12	2.11	0.51
2:J:170:TYR:CE2	2:J:507:PHE:HB3	2.45	0.51
2:I:778:ALA:HB2	2:I:807:PHE:CD2	2.46	0.51
2:K:283:THR:HG23	2:K:470:TYR:O	2.11	0.51
1:D:1393:VAL:N	1:D:1394:PRO:CD	2.73	0.51
1:D:682:VAL:HG11	1:D:695:TYR:CE2	2.46	0.51
1:E:1229:THR:HB	1:E:1311:GLN:HG3	1.92	0.51
1:A:961:ALA:HB2	1:A:1022:LEU:HD12	1.91	0.51
1:F:1050:TRP:CE3	1:F:1050:TRP:HA	2.46	0.51
1:D:1367:LEU:HD22	1:D:1371:MET:HG3	1.92	0.51
2:H:585:VAL:O	2:H:585:VAL:HG12	2.11	0.51
1:D:1017:TYR:HD1	1:D:1017:TYR:N	2.09	0.51
1:A:847:THR:OG1	1:A:876:MET:HG3	2.11	0.51
1:D:731:ASP:HB3	1:D:735:GLY:HA3	1.92	0.51
2:K:728:ILE:HG22	2:K:732:LYS:HE3	1.93	0.51
1:F:1448:ALA:CA	1:F:1451:LYS:HE3	2.36	0.51
1:F:1443:LEU:HD22	1:F:1474:ILE:HD11	1.92	0.51
1:D:1443:LEU:HD22	1:D:1474:ILE:HD11	1.92	0.51
1:A:1335:ARG:HH11	1:A:1339:GLU:HG2	1.75	0.51
2:J:1047:LEU:HD12	2:J:1047:LEU:N	2.26	0.51
1:C:434:ILE:HD11	1:C:490:VAL:HG21	1.91	0.51
2:G:930:THR:CG2	2:G:933:GLU:H	2.23	0.51
2:G:1180:VAL:HG11	2:G:1187:PHE:CG	2.45	0.51
2:L:911:GLN:NE2	2:L:1065:CYS:H	2.09	0.51
1:D:868:VAL:HG11	1:D:908:ILE:CD1	2.36	0.51
2:G:798:THR:HA	2:G:802:TYR:O	2.11	0.51
2:G:315:LEU:HA	2:G:318:ILE:HD12	1.94	0.51
2:J:743:TRP:CD2	2:J:761:ILE:HD11	2.45	0.51
1:C:767:HIS:CG	1:C:813:LEU:HD12	2.46	0.51
2:H:783:GLY:HA3	2:H:1075:TYR:CB	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:329:THR:HG22	2:L:1331:THR:O	2.11	0.51
1:D:967:PHE:CE2	1:D:1662:GLN:CA	2.94	0.51
2:L:611:THR:HA	2:L:1051:GLU:OE2	2.11	0.51
2:G:1551:ILE:CG2	2:G:1552:GLU:N	2.74	0.51
1:A:955:VAL:HG11	2:G:964:ARG:HE	1.76	0.51
2:G:35:PHE:HZ	2:G:104:LEU:HB3	1.75	0.51
2:L:1538:ASN:HB3	2:L:1541:ILE:CG2	2.41	0.51
2:L:197:VAL:HG21	2:L:263:ILE:HD11	1.93	0.51
1:D:716:GLN:NE2	1:D:747:ALA:HB3	2.26	0.51
2:G:92:GLU:HB3	2:G:95:HIS:NE2	2.26	0.51
2:K:1019:LEU:HA	2:K:1022:ARG:HD2	1.92	0.51
1:B:36:LEU:HD21	1:B:44:ILE:HD11	1.93	0.51
1:A:1129:ILE:HA	1:A:1139:THR:O	2.11	0.51
2:I:859:SER:HB3	2:I:863:GLU:HG3	1.92	0.51
2:J:1017:LEU:O	2:J:1021:GLN:HG3	2.11	0.51
1:B:755:GLU:HB2	1:B:757:ASP:HB2	1.92	0.51
2:I:979:LEU:HB2	2:I:996:ILE:HG23	1.91	0.51
1:E:768:ARG:HA	1:E:772:THR:OG1	2.11	0.51
1:C:334:ALA:O	1:C:338:GLN:HG3	2.11	0.51
1:D:1419:LYS:O	1:D:1422:ARG:HB2	2.10	0.51
2:I:1362:PHE:N	2:I:1363:PRO:HD2	2.26	0.51
2:L:409:LYS:HB3	2:L:428:PHE:CZ	2.45	0.51
1:F:1017:TYR:HD1	1:F:1017:TYR:N	2.09	0.51
1:C:1495:ARG:HG2	1:C:1495:ARG:HH11	1.76	0.51
2:K:614:PRO:O	2:K:618:VAL:HG12	2.11	0.50
1:C:1514:ILE:HD13	1:C:1545:LEU:HB3	1.93	0.50
2:G:608:MET:HA	4:G:2101:FMN:N5	2.25	0.50
1:A:533:SER:O	1:A:611:THR:HA	2.11	0.50
2:L:2062:THR:HG22	2:L:2063:GLY:N	2.25	0.50
1:D:905:LEU:HD23	1:D:908:ILE:HD12	1.92	0.50
1:C:498:THR:CG2	1:C:858:LEU:HA	2.36	0.50
2:J:2057:GLU:HA	2:J:2060:ARG:HH12	1.74	0.50
2:J:290:VAL:CG1	2:J:314:LEU:HD23	2.41	0.50
2:L:604:MET:CE	2:L:811:MET:HB2	2.41	0.50
1:A:911:LEU:O	1:A:911:LEU:HD12	2.11	0.50
2:I:167:VAL:CG2	2:I:169:ILE:HG13	2.40	0.50
1:F:22:PHE:HE1	2:L:1867:MET:HG3	1.76	0.50
2:G:1289:TYR:CB	2:G:1370:LEU:HD23	2.41	0.50
1:B:767:HIS:CB	1:B:813:LEU:HD12	2.40	0.50
2:L:727:VAL:HA	2:L:730:ILE:HG12	1.93	0.50
2:L:1370:LEU:CD1	2:L:1373:LEU:HD13	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1411:LYS:HB3	2:L:1435:TYR:HB2	1.92	0.50
2:L:1411:LYS:O	2:L:1434:LEU:HD12	2.11	0.50
2:L:1315:ILE:HA	2:L:1393:ASP:O	2.11	0.50
2:H:950:TRP:CE2	2:H:956:LYS:HG3	2.46	0.50
1:E:421:ARG:HH22	1:E:1613:LYS:CB	2.24	0.50
1:D:1640:LYS:HG3	1:D:1641:TYR:N	2.26	0.50
2:J:1551:ILE:CG2	2:J:1552:GLU:N	2.74	0.50
2:K:1171:TRP:CE3	2:K:1236:LEU:HD22	2.46	0.50
2:G:1553:GLN:HB3	2:G:1554:PRO:CD	2.41	0.50
2:L:204:ILE:HG21	2:L:312:VAL:HG21	1.92	0.50
2:I:1248:GLU:OE2	2:I:1250:ARG:NE	2.43	0.50
2:K:859:SER:HB3	2:K:863:GLU:HG3	1.92	0.50
2:H:728:ILE:O	2:H:732:LYS:HG3	2.11	0.50
2:K:281:GLY:HA3	2:K:470:TYR:HE1	1.76	0.50
2:G:980:LEU:CD2	2:G:986:LEU:HD21	2.41	0.50
1:A:524:LYS:O	1:A:527:ALA:N	2.44	0.50
1:B:988:VAL:HG12	1:B:990:LEU:HD23	1.93	0.50
1:F:755:GLU:HB2	1:F:757:ASP:HB2	1.92	0.50
1:B:1084:GLU:H	1:B:1084:GLU:CD	2.14	0.50
2:K:1975:GLU:O	2:K:1979:GLN:HG3	2.10	0.50
2:L:1519:THR:O	2:L:1520:LYS:HB2	2.11	0.50
1:C:382:ILE:HD12	1:C:761:SER:HB3	1.92	0.50
2:K:611:THR:HA	2:K:1051:GLU:OE2	2.11	0.50
2:I:1232:VAL:HA	2:I:1245:THR:O	2.11	0.50
2:L:168:LYS:H	2:L:511:THR:HB	1.76	0.50
2:H:167:VAL:C	2:H:168:LYS:HD2	2.32	0.50
2:L:609:THR:HG23	4:L:2101:FMN:O4	2.11	0.50
1:A:1079:ARG:CG	1:A:1079:ARG:NH1	2.68	0.50
2:H:824:THR:HG22	2:H:828:ALA:HB3	1.93	0.50
2:I:76:VAL:O	2:I:80:ILE:HG13	2.10	0.50
1:F:905:LEU:HD22	1:F:911:LEU:CD2	2.40	0.50
1:C:1565:PRO:O	1:C:1566:LYS:C	2.50	0.50
2:G:251:PRO:HG3	2:G:316:PHE:CA	2.40	0.50
2:G:490:LEU:HA	2:G:493:MET:SD	2.51	0.50
1:C:1584:GLY:HA2	1:C:1617:ILE:CD1	2.41	0.50
2:J:788:THR:HG22	2:J:1094:HIS:HE1	1.77	0.50
2:K:2057:GLU:HA	2:K:2060:ARG:HH12	1.76	0.50
2:L:2021:LEU:HD22	2:L:2025:ILE:HD11	1.93	0.50
2:K:1845:VAL:CG2	2:K:1856:LEU:HD22	2.39	0.50
2:J:837:GLY:HA3	2:J:1074:LYS:HG2	1.92	0.50
2:K:2005:PHE:HA	2:K:2010:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:580:LEU:HG	2:G:1098:LEU:HD23	1.93	0.50
2:L:21:LEU:HD22	2:L:36:LEU:HG	1.91	0.50
2:H:1421:ARG:HD2	2:H:1426:VAL:CG2	2.41	0.50
1:E:1494:TRP:HE1	1:E:1509:THR:HG21	1.75	0.50
2:H:378:ILE:HG23	2:H:391:VAL:CG1	2.40	0.50
2:K:21:LEU:HD22	2:K:36:LEU:HG	1.93	0.50
1:A:893:GLN:OE1	2:L:1751:GLY:HA2	2.11	0.50
1:E:1426:GLU:HA	1:E:1429:ARG:HB2	1.94	0.50
2:I:1171:TRP:CH2	2:I:1236:LEU:HB2	2.46	0.50
2:J:24:LEU:HD12	2:J:37:VAL:CG2	2.40	0.50
2:L:589:PHE:CD1	2:L:1116:PHE:CD2	2.99	0.50
1:D:1164:ILE:CD1	1:D:1355:GLN:HG3	2.41	0.50
2:G:1028:VAL:HG13	2:G:1030:PHE:CD2	2.45	0.50
2:K:1881:TYR:CZ	2:K:2009:PHE:HE1	2.29	0.50
2:I:1751:GLY:O	2:I:1755:LYS:HG2	2.10	0.50
2:H:966:VAL:O	2:H:970:PHE:HD1	1.94	0.50
1:F:383:TYR:O	1:F:387:ILE:HG12	2.11	0.50
1:F:1229:THR:HB	1:F:1311:GLN:HG3	1.94	0.50
2:K:1194:ARG:HH21	2:K:1601:ASN:CG	2.15	0.50
2:K:663:ILE:HD12	2:K:663:ILE:N	2.26	0.50
2:L:465:LEU:HB2	2:L:479:ARG:HG3	1.93	0.50
2:K:1180:VAL:HA	2:K:1188:GLN:O	2.11	0.50
1:F:1280:CYS:HA	1:F:1566:LYS:O	2.11	0.50
2:I:250:PHE:CB	2:I:251:PRO:HD3	2.41	0.50
2:I:459:LYS:O	2:I:461:PRO:HD3	2.10	0.50
2:I:489:GLU:O	2:I:493:MET:HG3	2.11	0.50
2:G:1074:LYS:HG3	2:G:1075:TYR:CD1	2.47	0.50
2:K:914:TRP:CH2	2:K:1033:ALA:HA	2.46	0.50
2:K:727:VAL:HA	2:K:730:ILE:HG12	1.92	0.50
2:J:1603:PRO:HD2	2:J:1606:ILE:HD11	1.93	0.50
2:J:1770:ASN:HB2	2:J:1776:LYS:CE	2.38	0.50
2:I:1074:LYS:HG3	2:I:1075:TYR:CD1	2.46	0.50
2:G:1340:LYS:CG	2:I:376:ARG:NH2	2.73	0.50
2:K:1738:VAL:HA	2:K:1800:LEU:HD13	1.93	0.50
1:D:1213:VAL:CG1	1:D:1217:GLU:HB2	2.41	0.50
1:B:766:ALA:HA	1:B:769:ILE:HD12	1.94	0.50
2:G:1378:ASN:HB3	2:G:1610:MET:HE3	1.93	0.50
2:G:1099:LEU:HD12	2:G:1103:TYR:CB	2.41	0.50
2:H:35:PHE:HD2	2:H:37:VAL:HG22	1.76	0.50
1:D:1307:PHE:HB3	1:D:1357:CYS:HB3	1.92	0.50
2:J:192:THR:O	2:J:194:PRO:HD3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1192:LEU:HD22	2:H:1196:PHE:HE1	1.76	0.50
2:G:361:VAL:O	2:G:365:ILE:HG13	2.12	0.50
2:G:1229:VAL:HG12	2:G:1230:LYS:N	2.27	0.50
2:G:197:VAL:HA	2:G:262:MET:HE1	1.93	0.50
2:H:186:LEU:CG	2:H:256:VAL:HG22	2.41	0.50
2:I:197:VAL:HG21	2:I:263:ILE:HD11	1.93	0.50
1:A:883:LEU:HD23	1:A:883:LEU:N	2.27	0.50
2:H:1515:LEU:HB3	2:H:1525:VAL:CG2	2.42	0.50
2:H:1750:GLY:O	2:H:1755:LYS:HE3	2.11	0.50
2:J:204:ILE:HG21	2:J:312:VAL:HG21	1.93	0.50
2:I:882:LYS:HB3	2:I:898:ARG:NH1	2.26	0.50
2:K:980:LEU:CD2	2:K:986:LEU:HD21	2.42	0.50
2:G:1328:VAL:HA	2:G:1611:TYR:HE1	1.76	0.50
1:D:2:ARG:HB2	1:D:5:VAL:HB	1.94	0.50
2:G:1156:ASP:HB2	2:G:1159:SER:H	1.77	0.50
2:K:1555:VAL:HG21	2:K:1824:LYS:HA	1.94	0.50
2:H:700:GLU:H	2:H:700:GLU:CD	2.14	0.50
2:I:1141:LYS:HE2	2:I:1143:SER:HB2	1.94	0.50
2:I:1910:VAL:HG11	2:I:1973:ILE:HG21	1.94	0.50
2:L:1586:ASP:OD1	2:L:1588:ASN:HB2	2.11	0.50
1:E:801:LEU:HD13	1:E:822:GLU:HG2	1.93	0.50
1:C:754:ARG:N	1:C:810:ASN:HB3	2.26	0.50
2:G:1338:ARG:NH2	2:I:327:PRO:HD2	2.25	0.50
2:I:1067:LEU:O	2:I:1068:GLN:HG2	2.11	0.50
2:K:610:PRO:HD2	4:K:2101:FMN:C6	2.26	0.50
2:L:656:ARG:NH1	2:L:656:ARG:HG2	2.26	0.50
1:D:1108:PRO:HA	1:D:1140:VAL:O	2.12	0.50
2:G:752:HIS:CE1	2:G:856:THR:HG21	2.46	0.50
2:J:1067:LEU:O	2:J:1068:GLN:HG2	2.11	0.50
1:D:434:ILE:HD11	1:D:490:VAL:HG21	1.94	0.50
2:G:622:MET:O	2:G:656:ARG:NH1	2.44	0.50
1:F:989:ASN:H	1:F:1491:ASN:ND2	1.97	0.50
2:G:962:PHE:O	2:G:965:ARG:HB3	2.11	0.50
2:K:1232:VAL:HA	2:K:1245:THR:O	2.12	0.50
2:H:2013:GLY:C	2:H:2016:PRO:HD2	2.32	0.50
2:J:662:LEU:HD22	2:J:673:GLN:OE1	2.12	0.50
1:A:405:TRP:CH2	1:A:1609:SER:HB3	2.47	0.50
2:L:1468:ARG:NH1	2:L:1475:LEU:HD22	2.27	0.50
2:K:1768:THR:O	2:K:1776:LYS:HB2	2.12	0.50
2:L:718:PRO:HG3	2:L:727:VAL:HG21	1.93	0.50
1:B:1161:ALA:O	1:B:1163:GLN:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:408:GLN:HG2	1:F:1610:ARG:NH1	2.25	0.50
2:I:950:TRP:CE2	2:I:956:LYS:HG3	2.47	0.50
1:C:626:TRP:CE3	1:C:898:PHE:HB2	2.47	0.50
2:K:35:PHE:CE1	2:K:105:ILE:HD13	2.46	0.50
2:J:784:GLY:HA3	2:J:786:GLU:OE2	2.11	0.50
1:C:746:PHE:HB3	3:C:1901:NAP:H52N	1.92	0.50
2:I:1324:PHE:CA	2:I:1583:VAL:HG11	2.41	0.50
2:J:83:VAL:O	2:J:87:VAL:HG23	2.11	0.50
1:E:414:TYR:CE2	1:E:418:ILE:HD11	2.47	0.50
2:L:1643:VAL:HG13	2:L:1649:ILE:HD11	1.93	0.50
2:I:1753:ARG:HG3	2:I:1756:ILE:CD1	2.42	0.50
1:A:1241:LEU:HD23	1:E:1097:LEU:HD12	1.93	0.50
1:A:519:PHE:O	1:A:523:VAL:HG23	2.12	0.50
1:E:940:ASN:HB3	1:E:949:GLU:OE2	2.12	0.50
2:H:196:PHE:H	2:H:196:PHE:HD2	1.59	0.50
1:B:879:ASN:HB3	1:B:901:LEU:HD13	1.93	0.50
1:D:799:LEU:HD12	1:D:821:LEU:HB3	1.93	0.50
2:K:317:TRP:O	2:K:321:ARG:HG2	2.11	0.50
2:K:1156:ASP:HB2	2:K:1159:SER:H	1.76	0.50
2:L:250:PHE:CB	2:L:251:PRO:HD3	2.40	0.50
2:H:159:PHE:HA	2:H:162:ALA:HB3	1.92	0.50
2:L:855:ILE:HB	2:L:869:ALA:HB2	1.94	0.50
2:J:613:VAL:N	2:J:614:PRO:CD	2.75	0.50
2:J:601:PRO:HB2	2:J:626:TYR:CE2	2.46	0.50
2:G:1047:LEU:N	2:G:1047:LEU:HD12	2.26	0.50
2:K:917:ARG:HB2	2:K:937:ARG:HD3	1.93	0.50
2:J:685:VAL:CG1	2:J:687:ILE:HG13	2.40	0.50
2:J:930:THR:O	2:J:934:VAL:HG23	2.11	0.50
2:J:825:SER:CB	2:J:1053:ILE:HG13	2.41	0.50
2:H:1603:PRO:HD2	2:H:1606:ILE:HD11	1.92	0.50
2:K:1410:GLY:HA3	2:K:1436:ARG:HA	1.92	0.50
2:I:1301:PHE:CB	2:I:1364:ARG:NH1	2.75	0.50
2:K:825:SER:O	2:K:828:ALA:HB3	2.10	0.50
1:E:684:THR:HG21	1:E:691:VAL:HG11	1.93	0.50
2:I:604:MET:HE1	2:I:811:MET:HB2	1.93	0.50
1:F:1213:VAL:HG22	1:F:1300:ARG:CZ	2.42	0.50
1:C:549:TYR:HE1	1:C:567:ASN:HB3	1.76	0.50
2:J:1468:ARG:NH1	2:J:1475:LEU:HD22	2.25	0.50
2:H:1083:ILE:HA	2:H:1086:ILE:HG13	1.94	0.50
2:H:35:PHE:CD2	2:H:37:VAL:HG22	2.47	0.50
2:L:792:LEU:HD23	2:L:1094:HIS:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1078:ILE:HG23	1:E:1352:MET:CE	2.41	0.50
1:F:549:TYR:HE1	1:F:567:ASN:HB3	1.77	0.50
1:F:746:PHE:CD2	3:F:1901:NAP:H4D	2.47	0.50
1:A:716:GLN:NE2	1:A:747:ALA:HB3	2.27	0.50
2:H:291:VAL:O	2:H:295:ILE:HB	2.12	0.50
2:I:966:VAL:O	2:I:970:PHE:HD1	1.95	0.50
2:G:700:GLU:H	2:G:700:GLU:CD	2.15	0.50
2:L:728:ILE:HG22	2:L:732:LYS:HE3	1.93	0.50
1:F:956:ILE:HA	2:L:977:PRO:HA	1.93	0.50
1:F:2:ARG:HB2	1:F:5:VAL:HB	1.94	0.50
1:E:1335:ARG:HH11	1:E:1339:GLU:HG2	1.76	0.50
1:E:1164:ILE:CD1	1:E:1355:GLN:HG3	2.41	0.50
2:H:1128:PRO:HG2	2:H:1135:ALA:CB	2.41	0.50
2:L:1594:ARG:NH1	2:L:1594:ARG:CG	2.67	0.50
2:K:930:THR:CG2	2:K:933:GLU:HG3	2.38	0.50
2:K:938:MET:O	2:K:942:MET:HG3	2.11	0.50
2:K:686:PRO:HB3	2:K:1187:PHE:CE1	2.46	0.50
2:K:1769:VAL:HG13	2:K:1774:SER:C	2.32	0.50
1:B:585:MET:HG2	1:E:577:LEU:HD23	1.93	0.50
2:G:1769:VAL:HG22	2:G:1775:ILE:CA	2.35	0.50
2:K:376:ARG:HH22	2:L:1340:LYS:CE	2.24	0.50
2:H:1436:ARG:HH22	2:H:1602:LEU:CD1	2.24	0.50
2:J:1497:ARG:O	2:J:1505:SER:HB3	2.11	0.50
2:I:605:VAL:CB	2:I:628:ILE:HG13	2.38	0.50
2:H:914:TRP:CD1	2:H:916:GLY:HA3	2.46	0.50
2:J:376:ARG:HE	2:K:1339:GLY:HA2	1.76	0.50
2:L:2005:PHE:HA	2:L:2010:LEU:HD11	1.92	0.50
2:I:824:THR:HG22	2:I:828:ALA:HB3	1.93	0.50
1:F:1213:VAL:CG1	1:F:1214:HIS:N	2.74	0.50
2:I:2039:TYR:O	2:I:2041:PRO:HD3	2.11	0.50
2:I:1845:VAL:CG2	2:I:1856:LEU:HD22	2.41	0.50
2:J:741:LEU:O	2:J:741:LEU:CG	2.60	0.50
2:G:1464:LEU:HD13	2:G:1468:ARG:HG3	1.93	0.50
1:D:714:PHE:CE1	1:D:725:LEU:HD12	2.47	0.50
1:E:1160:VAL:HB	1:E:1352:MET:HE1	1.93	0.50
2:J:1114:GLU:HB3	2:J:1169:TYR:HB3	1.92	0.50
2:J:21:LEU:HD13	2:J:36:LEU:HD21	1.93	0.50
1:E:883:LEU:HA	1:E:888:ILE:HD12	1.93	0.50
2:K:204:ILE:CG2	2:K:312:VAL:HG11	2.41	0.50
1:F:1209:PHE:CE2	1:F:1301:VAL:HG21	2.45	0.50
2:J:1317:ASN:HB3	2:J:1320:ALA:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1131:GLU:HG2	1:E:1138:TYR:CE2	2.47	0.50
2:J:980:LEU:CD2	2:J:986:LEU:HD21	2.41	0.50
2:J:1643:VAL:HG13	2:J:1649:ILE:HD11	1.93	0.50
2:L:192:THR:O	2:L:194:PRO:HD3	2.11	0.50
2:J:1725:HIS:CD2	2:J:1854:GLU:CB	2.94	0.50
1:B:875:GLU:O	1:B:878:PHE:HB3	2.11	0.50
1:A:329:THR:O	1:A:332:GLN:HB2	2.12	0.50
2:H:187:ARG:NH2	2:H:230:TRP:O	2.45	0.50
2:J:1969:LEU:HA	2:J:1972:ILE:HD12	1.93	0.50
1:C:1599:MET:HA	1:C:1602:PHE:CD2	2.46	0.50
2:K:126:VAL:HG12	2:K:127:ALA:H	1.77	0.50
2:G:1566:LYS:O	2:G:1568:PRO:HD3	2.10	0.50
1:D:1599:MET:HA	1:D:1602:PHE:CD2	2.47	0.50
2:J:187:ARG:NH2	2:J:230:TRP:O	2.44	0.50
2:I:1224:GLN:OE1	2:I:1224:GLN:HA	2.11	0.50
2:G:409:LYS:HB3	2:G:428:PHE:CZ	2.46	0.50
2:H:613:VAL:HG13	2:H:614:PRO:CD	2.42	0.50
2:L:451:ILE:O	2:L:455:VAL:HG23	2.11	0.50
2:H:250:PHE:O	2:H:315:LEU:HD23	2.11	0.50
2:I:374:GLU:CA	2:I:377:HIS:CD2	2.78	0.50
2:G:917:ARG:HG2	2:G:917:ARG:HH11	1.67	0.50
2:J:937:ARG:NE	2:J:941:LEU:CD1	2.75	0.50
2:H:1064:THR:HG22	2:H:1065:CYS:N	2.26	0.50
2:H:1026:LYS:HE2	2:H:1045:ASP:OD2	2.12	0.50
2:G:1181:PHE:CD1	2:G:1191:PRO:HD2	2.47	0.50
2:J:824:THR:HG22	2:J:828:ALA:HB3	1.93	0.50
2:I:22:ARG:HD2	2:I:42:HIS:HB3	1.93	0.50
2:G:1603:PRO:HD2	2:G:1606:ILE:HD11	1.94	0.50
1:B:684:THR:HG21	1:B:691:VAL:HG11	1.94	0.50
2:G:605:VAL:CB	2:G:628:ILE:HG13	2.38	0.50
2:L:2013:GLY:C	2:L:2016:PRO:HD2	2.32	0.50
2:J:1083:ILE:HA	2:J:1086:ILE:HG13	1.92	0.50
2:H:276:LEU:HD21	2:H:296:ALA:HA	1.93	0.50
2:L:670:MET:HB2	2:L:674:ILE:HD12	1.94	0.50
2:K:1411:LYS:HB2	2:K:1439:TYR:CD1	2.47	0.50
2:I:818:THR:HG22	2:I:829:LYS:CB	2.41	0.50
2:G:388:ASN:HD22	2:G:389:PHE:N	2.10	0.50
2:J:1026:LYS:HG3	3:J:2102:NAP:N7A	2.26	0.50
1:F:1094:LYS:HB3	1:F:1154:LEU:HB2	1.93	0.50
1:B:767:HIS:CG	1:B:813:LEU:HD12	2.46	0.50
2:G:1064:THR:HG22	2:G:1065:CYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:785:SER:HB3	2:H:1090:ILE:HG23	1.94	0.50
2:G:1456:LEU:HD11	2:G:1543:TYR:CE2	2.45	0.50
1:F:1183:VAL:HG13	1:F:1252:GLU:OE1	2.11	0.50
2:L:21:LEU:HD13	2:L:36:LEU:HD21	1.93	0.50
2:I:271:GLU:HB2	2:I:274:GLU:HG3	1.94	0.50
2:J:1299:VAL:HG22	2:J:1301:PHE:CD1	2.47	0.50
1:A:1160:VAL:HB	1:A:1352:MET:HE1	1.94	0.50
1:A:889:VAL:O	1:A:893:GLN:HG3	2.12	0.50
2:K:731:ALA:HA	2:K:739:ILE:CD1	2.40	0.50
1:A:1207:TYR:CE2	1:A:1682:LYS:HD2	2.47	0.50
2:H:1266:HIS:CD2	2:H:1275:ARG:CZ	2.95	0.50
2:J:1328:VAL:HA	2:J:1611:TYR:HE1	1.76	0.50
2:I:962:PHE:O	2:I:965:ARG:HB3	2.10	0.50
1:F:1338:GLY:C	1:F:1340:MET:H	2.15	0.50
1:D:1177:GLU:O	1:D:1180:ILE:HB	2.11	0.50
1:D:1017:TYR:CD1	1:D:1017:TYR:N	2.80	0.50
2:I:952:ASP:OD1	2:I:953:PRO:HD2	2.12	0.50
2:H:1982:ALA:O	2:H:1984:PRO:HD3	2.11	0.50
2:J:1813:MET:HG3	2:J:1814:GLU:N	2.26	0.50
1:D:847:THR:OG1	1:D:876:MET:HG3	2.11	0.50
2:G:571:ASP:HB3	2:G:574:LYS:HB2	1.93	0.50
1:B:2:ARG:HB2	1:B:5:VAL:HB	1.93	0.50
2:K:505:THR:HG22	2:K:505:THR:O	2.11	0.50
2:I:1749:PHE:CG	2:I:1758:ARG:HB3	2.47	0.50
2:K:2008:THR:HG22	2:K:2011:ARG:HE	1.76	0.50
2:G:317:TRP:O	2:G:321:ARG:HG2	2.12	0.50
2:H:1232:VAL:HA	2:H:1245:THR:O	2.12	0.50
2:H:511:THR:CG2	2:H:512:HIS:HD2	2.18	0.50
2:L:613:VAL:HG13	2:L:614:PRO:HD3	1.94	0.50
2:L:752:HIS:NE2	2:L:856:THR:HG21	2.27	0.50
1:B:628:TYR:HD1	1:B:629:SER:N	2.10	0.50
1:E:430:VAL:O	1:E:434:ILE:HG13	2.12	0.50
2:L:1180:VAL:HA	2:L:1188:GLN:O	2.11	0.50
2:I:1180:VAL:HA	2:I:1188:GLN:O	2.11	0.50
2:K:1442:TYR:CG	2:K:1499:LYS:O	2.65	0.50
2:G:825:SER:O	2:G:828:ALA:HB3	2.12	0.50
2:G:762:LEU:HD11	2:G:800:PHE:CD2	2.46	0.50
2:L:857:VAL:CG1	2:L:876:TRP:CD1	2.95	0.50
1:E:1708:ASN:HD21	1:E:1712:LYS:NZ	2.10	0.50
2:I:325:ALA:HB2	2:I:447:ALA:HB2	1.93	0.50
1:A:904:GLY:HA2	1:A:906:GLN:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2013:GLY:C	2:J:2016:PRO:HD2	2.33	0.50
1:D:330:LYS:HG3	1:D:333:ARG:HH12	1.74	0.50
2:J:502:GLU:O	2:J:506:VAL:HG23	2.12	0.50
2:H:80:ILE:HG12	2:H:105:ILE:CG2	2.42	0.50
2:G:1725:HIS:CD2	2:G:1854:GLU:HB3	2.45	0.50
2:J:1315:ILE:HA	2:J:1393:ASP:O	2.12	0.50
2:I:271:GLU:H	2:I:274:GLU:HG3	1.76	0.50
2:I:1551:ILE:CG2	2:I:1552:GLU:N	2.75	0.50
1:E:1623:THR:HG22	1:E:1633:GLN:HB2	1.94	0.50
2:J:35:PHE:HD2	2:J:37:VAL:HG22	1.77	0.50
2:K:1236:LEU:HD12	2:K:1241:GLU:O	2.12	0.50
2:I:788:THR:HG22	2:I:1094:HIS:HE1	1.76	0.50
2:J:1653:LEU:HD21	2:J:1667:VAL:HG13	1.94	0.50
2:H:731:ALA:HA	2:H:739:ILE:CD1	2.41	0.50
2:J:731:ALA:HA	2:J:739:ILE:CD1	2.42	0.50
2:I:915:PHE:HB2	2:I:1030:PHE:CD1	2.47	0.50
2:G:1753:ARG:HG3	2:G:1756:ILE:HD11	1.94	0.50
2:I:980:LEU:CD2	2:I:986:LEU:HD21	2.42	0.50
2:J:1120:ILE:HD13	2:J:1173:HIS:CE1	2.47	0.50
2:L:1015:HIS:NE2	2:L:1019:LEU:HD11	2.27	0.50
1:C:988:VAL:HG12	1:C:990:LEU:HD23	1.93	0.50
2:K:1887:ASN:OD1	2:K:1889:SER:HB2	2.12	0.50
1:D:1254:PHE:HB2	1:D:1257:THR:OG1	2.12	0.50
2:H:1946:LEU:HD22	2:H:1951:ILE:HG12	1.94	0.50
2:I:1872:GLU:HA	2:I:1872:GLU:OE1	2.11	0.50
1:C:1451:LYS:HE2	1:C:1463:GLU:OE2	2.11	0.50
2:I:614:PRO:O	2:I:618:VAL:HG12	2.11	0.50
2:I:618:VAL:HG11	2:I:648:ILE:HD11	1.93	0.50
2:H:1047:LEU:N	2:H:1047:LEU:HD12	2.27	0.50
2:H:609:THR:CG2	2:H:633:GLY:HA3	2.42	0.50
2:K:1769:VAL:HG22	2:K:1775:ILE:CA	2.32	0.50
2:K:178:ASN:HA	2:K:434:PRO:HG2	1.94	0.50
2:K:465:LEU:HB2	2:K:479:ARG:CG	2.42	0.50
2:H:796:TRP:HH2	2:H:805:MET:HE1	1.73	0.50
2:I:21:LEU:HA	2:I:37:VAL:O	2.12	0.50
2:I:914:TRP:CD1	2:I:916:GLY:HA3	2.47	0.50
1:B:1584:GLY:HA2	1:B:1617:ILE:CD1	2.41	0.50
1:F:1037:ASN:CG	1:F:1674:ILE:HG23	2.32	0.50
1:B:552:ILE:HG12	1:E:552:ILE:CD1	2.39	0.50
2:J:1411:LYS:O	2:J:1434:LEU:HD12	2.10	0.50
1:B:1183:VAL:HG11	1:B:1187:THR:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1026:LYS:HE2	2:J:1045:ASP:OD2	2.12	0.50
1:C:1705:GLN:HA	1:C:1711:LEU:HD23	1.94	0.50
2:L:1370:LEU:CA	2:L:1435:TYR:HE2	2.24	0.50
2:G:1083:ILE:HA	2:G:1086:ILE:HG13	1.92	0.50
1:C:1042:LEU:HD12	1:C:1058:PRO:HG3	1.94	0.50
2:H:1551:ILE:CG2	2:H:1552:GLU:N	2.74	0.50
1:C:626:TRP:CZ3	1:C:898:PHE:HB2	2.47	0.50
2:K:21:LEU:HA	2:K:37:VAL:O	2.11	0.50
1:B:569:LEU:HD22	1:E:544:ASP:HB3	1.94	0.50
2:H:1324:PHE:CA	2:H:1583:VAL:HG11	2.42	0.50
1:C:960:ARG:HH11	2:I:968:GLU:HB3	1.75	0.50
1:C:960:ARG:NH1	2:I:968:GLU:CD	2.64	0.50
2:H:204:ILE:HG21	2:H:312:VAL:HG21	1.93	0.50
2:L:123:ALA:O	2:L:126:VAL:HG23	2.11	0.50
2:H:1821:MET:HA	2:H:1826:LEU:HD12	1.93	0.50
1:F:36:LEU:HD22	1:F:61:LEU:HD21	1.94	0.50
2:I:1128:PRO:HG2	2:I:1135:ALA:CB	2.42	0.50
2:L:31:LEU:HB2	2:L:72:VAL:HG22	1.94	0.50
2:I:409:LYS:HB3	2:I:428:PHE:CZ	2.46	0.50
2:J:73:VAL:HA	2:J:113:PHE:CE2	2.47	0.50
1:A:1082:GLU:HB2	1:A:1085:LEU:HD12	1.93	0.50
2:H:1362:PHE:N	2:H:1363:PRO:HD2	2.26	0.50
1:F:768:ARG:HA	1:F:772:THR:OG1	2.12	0.50
2:I:357:THR:HG22	2:I:359:SER:H	1.77	0.50
2:L:2073:ASN:O	2:L:2076:LYS:HB3	2.12	0.50
2:G:1946:LEU:HD22	2:G:1951:ILE:HG12	1.94	0.50
1:E:985:ARG:HB3	1:E:1422:ARG:HH22	1.76	0.50
1:C:1121:ARG:NH1	1:F:1153:ALA:O	2.45	0.50
2:J:1157:VAL:HG13	2:J:1197:ALA:HA	1.93	0.50
2:J:1594:ARG:NH1	2:J:1594:ARG:CG	2.62	0.49
2:H:420:PRO:HG3	2:H:847:TYR:CD1	2.46	0.49
2:J:607:GLY:HA2	2:J:612:THR:HG21	1.94	0.49
2:G:609:THR:HG22	2:G:633:GLY:HA3	1.94	0.49
2:H:937:ARG:HG3	2:H:941:LEU:HD12	1.93	0.49
1:C:487:TYR:CE2	1:C:881:LEU:HD13	2.47	0.49
2:I:1436:ARG:HH22	2:I:1602:LEU:CD1	2.22	0.49
2:K:604:MET:CE	2:K:811:MET:HB2	2.41	0.49
2:K:1436:ARG:NH2	2:K:1602:LEU:CD1	2.75	0.49
1:C:498:THR:HG21	1:C:858:LEU:O	2.12	0.49
1:A:20:TYR:CE2	2:G:2062:THR:HG23	2.47	0.49
2:G:1891:ILE:HD12	2:G:1895:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1705:GLN:HA	1:E:1711:LEU:HD23	1.94	0.49
2:H:604:MET:HE1	2:H:811:MET:HB2	1.93	0.49
1:D:767:HIS:CG	1:D:813:LEU:HD12	2.47	0.49
2:G:2005:PHE:HA	2:G:2010:LEU:HD11	1.93	0.49
2:J:44:GLN:HG3	2:J:101:VAL:CG2	2.41	0.49
2:H:1099:LEU:HD12	2:H:1103:TYR:CB	2.42	0.49
2:L:1464:LEU:HD13	2:L:1468:ARG:HG3	1.93	0.49
2:L:1411:LYS:HB2	2:L:1439:TYR:CD1	2.47	0.49
2:I:1456:LEU:HD11	2:I:1543:TYR:CE2	2.43	0.49
2:K:2021:LEU:HD22	2:K:2025:ILE:HD11	1.94	0.49
1:E:929:ARG:O	1:E:933:ILE:HG13	2.11	0.49
1:A:1223:GLY:CA	1:A:1276:PRO:HD2	2.42	0.49
2:G:1234:ILE:HG12	2:G:1244:LEU:HD13	1.94	0.49
1:E:1186:VAL:HG23	1:E:1309:ASP:HB2	1.92	0.49
1:F:472:GLN:HE21	1:F:472:GLN:HA	1.77	0.49
2:G:21:LEU:HA	2:G:37:VAL:O	2.11	0.49
2:I:857:VAL:CG1	2:I:876:TRP:NE1	2.74	0.49
2:L:1299:VAL:HG22	2:L:1301:PHE:CD1	2.46	0.49
2:I:1093:ASP:O	2:I:1097:PHE:HD1	1.93	0.49
2:G:186:LEU:CG	2:G:256:VAL:HG22	2.42	0.49
1:F:943:VAL:HG23	2:L:1539:PRO:HG3	1.94	0.49
2:G:1208:ASN:N	2:G:1209:PRO:HD3	2.27	0.49
2:L:1821:MET:HA	2:L:1826:LEU:HD12	1.93	0.49
1:F:1160:VAL:C	1:F:1352:MET:HE1	2.32	0.49
1:E:536:SER:HB3	1:E:540:LYS:HB3	1.94	0.49
1:E:1164:ILE:HD12	1:E:1355:GLN:HG3	1.92	0.49
2:J:102:LEU:O	2:J:106:LEU:HG	2.12	0.49
1:F:329:THR:O	1:F:332:GLN:HB2	2.12	0.49
2:L:77:ALA:O	2:L:139:ALA:HB1	2.12	0.49
2:G:690:LEU:HD22	2:G:691:THR:N	2.27	0.49
2:L:520:GLY:C	2:L:522:SER:H	2.15	0.49
2:G:1141:LYS:HE2	2:G:1143:SER:HB2	1.94	0.49
1:F:679:LYS:HG2	1:F:708:GLN:HB3	1.92	0.49
2:I:1157:VAL:HG13	2:I:1197:ALA:HA	1.94	0.49
2:I:1946:LEU:HD22	2:I:1951:ILE:HG12	1.94	0.49
1:C:1079:ARG:CG	1:C:1079:ARG:NH1	2.68	0.49
2:L:929:MET:CE	2:L:934:VAL:HA	2.41	0.49
1:C:1150:ILE:HG12	1:F:1148:LEU:HD21	1.94	0.49
2:H:1637:VAL:HG11	2:H:1679:LEU:CD1	2.36	0.49
2:L:1251:THR:HG22	2:L:1292:VAL:HG13	1.94	0.49
2:I:1500:ASN:HB2	2:I:1503:VAL:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:489:GLU:O	2:G:493:MET:HG3	2.12	0.49
2:L:604:MET:HE1	2:L:811:MET:HB2	1.94	0.49
2:G:2017:PHE:CE2	2:G:2021:LEU:HD11	2.47	0.49
2:H:1986:PRO:O	2:H:1987:VAL:HB	2.12	0.49
1:A:1213:VAL:CG1	1:A:1217:GLU:HB2	2.43	0.49
1:A:1055:THR:OG1	1:A:1057:GLU:HG2	2.13	0.49
2:L:1986:PRO:O	2:L:1987:VAL:HB	2.11	0.49
2:K:330:SER:H	2:L:1331:THR:HG22	1.77	0.49
2:L:1086:ILE:O	2:L:1090:ILE:HG13	2.12	0.49
2:J:1338:ARG:NH2	2:L:327:PRO:CD	2.73	0.49
2:K:1305:LEU:H	2:K:1305:LEU:CD1	2.22	0.49
2:G:1659:ILE:HG13	2:G:1664:ILE:HD11	1.94	0.49
1:E:1081:ILE:HG13	1:E:1159:LEU:O	2.12	0.49
1:D:414:TYR:CE2	1:D:418:ILE:HD11	2.47	0.49
1:C:1142:LEU:H	1:C:1142:LEU:HD12	1.76	0.49
1:C:415:TYR:CD2	1:C:1614:THR:HA	2.47	0.49
2:K:1643:VAL:HG13	2:K:1649:ILE:HD11	1.94	0.49
2:H:1157:VAL:HG22	2:H:1198:PRO:HD2	1.94	0.49
2:H:1141:LYS:HE2	2:H:1143:SER:HB2	1.94	0.49
1:E:755:GLU:HB2	1:E:757:ASP:HB2	1.94	0.49
2:G:728:ILE:HG22	2:G:732:LYS:HE3	1.94	0.49
1:A:731:ASP:HB3	1:A:735:GLY:HA3	1.94	0.49
1:F:754:ARG:N	1:F:810:ASN:HB3	2.26	0.49
2:J:1457:HIS:ND1	2:J:1487:THR:HG22	2.27	0.49
2:G:1561:ILE:HB	2:G:1655:HIS:HB3	1.94	0.49
2:H:1910:VAL:HG11	2:H:1973:ILE:HG21	1.93	0.49
1:A:1011:ARG:NH1	1:A:1012:TRP:HA	2.27	0.49
1:A:768:ARG:HA	1:A:772:THR:OG1	2.12	0.49
1:E:1017:TYR:N	1:E:1017:TYR:HD1	2.10	0.49
2:L:317:TRP:O	2:L:321:ARG:HG2	2.13	0.49
2:I:1229:VAL:HG12	2:I:1230:LYS:N	2.27	0.49
2:H:465:LEU:HB2	2:H:479:ARG:HG3	1.94	0.49
2:K:601:PRO:HB2	2:K:626:TYR:CE2	2.47	0.49
2:K:167:VAL:HG23	2:K:169:ILE:HG13	1.93	0.49
1:E:612:ILE:HG12	1:E:628:TYR:HD2	1.69	0.49
2:I:935:VAL:HG11	2:I:997:LEU:HD21	1.95	0.49
2:H:1725:HIS:CD2	2:H:1854:GLU:CB	2.96	0.49
2:L:208:LEU:HD12	2:L:227:ILE:CD1	2.41	0.49
1:F:1213:VAL:HG13	1:F:1217:GLU:HB2	1.94	0.49
1:C:486:VAL:HG13	1:C:648:LEU:H	1.77	0.49
1:D:1183:VAL:HG13	1:D:1252:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:44:GLN:HG3	2:L:101:VAL:CG2	2.42	0.49
2:G:756:ASP:CA	2:G:843:TRP:HH2	2.25	0.49
2:J:92:GLU:HA	2:J:95:HIS:CE1	2.48	0.49
2:G:1356:ALA:CB	2:G:1397:THR:HG22	2.42	0.49
2:K:92:GLU:HB3	2:K:95:HIS:NE2	2.27	0.49
2:H:776:LEU:HG	2:H:807:PHE:CE2	2.47	0.49
1:A:849:GLY:HA3	1:A:873:GLN:HG3	1.94	0.49
2:K:1142:ILE:HG13	2:K:1209:PRO:HG2	1.94	0.49
2:I:611:THR:HA	2:I:1051:GLU:OE2	2.12	0.49
1:E:1547:ARG:HG2	1:E:1604:TYR:HD1	1.75	0.49
2:J:329:THR:HG21	2:K:1333:GLU:CB	2.41	0.49
1:C:24:MET:HB3	2:I:2043:VAL:HG12	1.94	0.49
2:G:1338:ARG:HH21	2:I:327:PRO:HD2	1.77	0.49
2:H:1217:ILE:O	2:H:1233:GLU:HA	2.12	0.49
2:G:617:PHE:CE1	2:G:822:ALA:HB2	2.47	0.49
1:B:1153:ALA:O	1:D:1121:ARG:NH1	2.43	0.49
2:J:221:TYR:CE2	2:J:225:LEU:HD22	2.47	0.49
1:B:1534:GLU:HG2	1:B:1625:PHE:CE1	2.47	0.49
2:K:1402:ASN:ND2	2:K:1416:CYS:HB2	2.28	0.49
2:H:617:PHE:CE1	2:H:822:ALA:HB2	2.47	0.49
2:K:416:GLN:HE22	2:K:425:LYS:H	1.60	0.49
2:K:1622:THR:HG23	2:K:1627:ASN:OD1	2.12	0.49
1:C:1579:GLN:O	1:C:1583:THR:HG23	2.11	0.49
2:L:1231:THR:HG23	2:L:1595:VAL:CG2	2.37	0.49
1:B:1150:ILE:HG12	1:D:1148:LEU:CD2	2.42	0.49
1:D:1100:VAL:HG21	1:D:1150:ILE:CD1	2.43	0.49
1:D:628:TYR:OH	1:D:630:LYS:HG2	2.13	0.49
2:K:512:HIS:HE1	2:K:566:VAL:HG13	1.77	0.49
1:A:1148:LEU:HD21	1:E:1150:ILE:HG12	1.95	0.49
2:I:685:VAL:CG1	2:I:687:ILE:HG13	2.38	0.49
2:H:1500:ASN:HB2	2:H:1503:VAL:H	1.78	0.49
1:C:1363:MET:HE3	1:C:1368:ALA:CB	2.42	0.49
2:I:2063:GLY:O	2:I:2065:PRO:HD3	2.12	0.49
2:G:1299:VAL:HG22	2:G:1301:PHE:CD1	2.48	0.49
2:J:820:LYS:HG3	2:J:821:GLU:HG2	1.94	0.49
2:J:1734:ILE:O	2:J:1738:VAL:HG23	2.12	0.49
2:J:376:ARG:NH2	2:K:1340:LYS:CG	2.76	0.49
2:G:2021:LEU:O	2:G:2025:ILE:HG13	2.12	0.49
2:K:1370:LEU:HA	2:K:1435:TYR:CE2	2.48	0.49
2:G:914:TRP:CH2	2:G:1033:ALA:HA	2.48	0.49
1:A:336:PHE:O	1:A:339:GLN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1468:ARG:NH1	2:G:1475:LEU:HD22	2.28	0.49
2:I:1315:ILE:HA	2:I:1393:ASP:O	2.12	0.49
1:A:15:VAL:HG11	2:G:2022:LEU:CD2	2.41	0.49
2:L:24:LEU:HD12	2:L:37:VAL:CG2	2.41	0.49
2:K:580:LEU:HG	2:K:1098:LEU:HD23	1.95	0.49
2:H:1456:LEU:HD11	2:H:1543:TYR:CE2	2.45	0.49
1:E:506:ILE:HD11	1:E:926:SER:HB3	1.93	0.49
2:G:271:GLU:HB2	2:G:274:GLU:HG3	1.94	0.49
2:I:1175:MET:HA	2:I:1274:ILE:CD1	2.42	0.49
1:B:1405:ARG:HA	1:D:1697:LEU:O	2.12	0.49
2:L:1805:PHE:O	2:L:1808:PRO:HD2	2.11	0.49
2:K:1028:VAL:HG13	2:K:1030:PHE:CD2	2.47	0.49
1:D:336:PHE:O	1:D:339:GLN:HB2	2.13	0.49
2:L:1350:ILE:HG22	2:L:1429:VAL:HG11	1.94	0.49
2:K:1317:ASN:HB3	2:K:1320:ALA:CB	2.42	0.49
2:K:1192:LEU:HD22	2:K:1196:PHE:HE1	1.76	0.49
2:I:1750:GLY:N	2:I:1754:GLY:HA3	2.27	0.49
2:J:617:PHE:CD1	2:J:822:ALA:HA	2.47	0.49
2:G:1752:PRO:O	2:G:1756:ILE:HG23	2.12	0.49
2:L:915:PHE:CD2	2:L:915:PHE:O	2.66	0.49
2:J:1752:PRO:O	2:J:1756:ILE:HG23	2.12	0.49
1:E:1419:LYS:O	1:E:1422:ARG:HB2	2.12	0.49
2:L:1813:MET:HG3	2:L:1814:GLU:N	2.27	0.49
2:G:126:VAL:HG12	2:G:127:ALA:H	1.75	0.49
2:H:798:THR:HA	2:H:802:TYR:O	2.11	0.49
2:K:1749:PHE:CG	2:K:1758:ARG:HB3	2.47	0.49
1:B:519:PHE:O	1:B:523:VAL:HG23	2.12	0.49
1:B:1335:ARG:HH11	1:B:1339:GLU:HG2	1.77	0.49
2:L:888:ARG:O	2:L:891:ARG:HB2	2.11	0.49
1:F:1293:THR:HG23	1:F:1298:LYS:HB2	1.95	0.49
2:H:1620:VAL:O	2:H:1624:ALA:HB3	2.12	0.49
1:F:17:LEU:HD23	2:L:2043:VAL:CG2	2.42	0.49
2:H:907:ASN:OD1	2:H:913:VAL:HG12	2.12	0.49
1:C:1001:GLU:O	1:C:1007:ASN:HA	2.11	0.49
2:G:1336:VAL:HG12	2:G:1336:VAL:O	2.12	0.49
2:H:1865:LEU:O	2:H:1869:VAL:HG22	2.12	0.49
1:D:542:GLN:CB	1:D:579:MET:HE2	2.17	0.49
1:E:1330:GLU:OE2	1:E:1342:ARG:NH2	2.45	0.49
2:H:472:THR:HG23	2:H:499:VAL:HA	1.94	0.49
1:E:965:TYR:OH	1:E:1199:LEU:HD22	2.11	0.49
2:L:717:LYS:HD2	4:L:2101:FMN:O2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1594:ARG:CG	2:G:1594:ARG:NH1	2.65	0.49
2:J:609:THR:HG22	2:J:633:GLY:HA3	1.93	0.49
1:B:628:TYR:OH	1:B:630:LYS:HE2	2.12	0.49
1:B:1079:ARG:NH1	1:B:1079:ARG:CG	2.69	0.49
2:L:663:ILE:N	2:L:663:ILE:HD12	2.23	0.49
2:K:1265:TYR:HE1	2:K:1267:PRO:HG3	1.73	0.49
1:E:962:ASN:ND2	2:K:1006:GLN:NE2	2.47	0.49
2:J:1180:VAL:CG1	2:J:1188:GLN:H	2.25	0.49
2:I:1603:PRO:HD2	2:I:1606:ILE:HD11	1.94	0.49
1:C:1004:PRO:HD3	1:C:1572:TRP:CH2	2.47	0.49
2:K:914:TRP:CZ3	2:K:1033:ALA:HA	2.48	0.49
2:L:1891:ILE:HD12	2:L:1895:PHE:CE2	2.47	0.49
2:K:2013:GLY:O	2:K:2016:PRO:HD2	2.12	0.49
2:K:1709:TYR:CE2	2:K:1716:LYS:HG2	2.47	0.49
2:G:1370:LEU:HA	2:G:1435:TYR:CE2	2.45	0.49
2:H:792:LEU:HD23	2:H:1094:HIS:ND1	2.28	0.49
2:L:1352:VAL:HG11	2:L:1395:LEU:HD12	1.94	0.49
2:L:391:VAL:HG12	2:L:398:LEU:HD21	1.95	0.49
2:I:221:TYR:CE2	2:I:225:LEU:HD22	2.48	0.49
2:K:1083:ILE:HA	2:K:1086:ILE:HG13	1.93	0.49
2:I:1515:LEU:HB3	2:I:1525:VAL:CG2	2.41	0.49
1:D:1337:PRO:HA	1:D:1340:MET:HG3	1.95	0.49
2:L:1192:LEU:HD22	2:L:1196:PHE:HE1	1.78	0.49
2:K:1286:LYS:HD3	2:K:1362:PHE:HA	1.94	0.49
1:F:504:GLY:HA2	1:F:929:ARG:HD2	1.94	0.49
1:E:731:ASP:HB3	1:E:735:GLY:HA3	1.95	0.49
2:J:1749:PHE:CG	2:J:1758:ARG:HB3	2.48	0.49
2:H:978:SER:O	2:H:981:GLN:HG2	2.12	0.49
1:A:1075:HIS:HB3	1:A:1166:THR:HB	1.94	0.49
1:B:1708:ASN:OD1	1:B:1710:GLU:HB2	2.12	0.49
2:J:416:GLN:HE22	2:J:425:LYS:H	1.61	0.49
1:E:1691:ILE:HG22	1:E:1695:VAL:HG23	1.94	0.49
1:C:358:PHE:C	1:C:358:PHE:CD2	2.85	0.49
1:A:68:TYR:HD1	2:I:371:HIS:CD2	2.29	0.49
1:B:1017:TYR:HD1	1:B:1017:TYR:N	2.10	0.49
2:G:1279:GLU:H	2:G:1279:GLU:CD	2.15	0.49
2:L:187:ARG:NH2	2:L:230:TRP:O	2.45	0.49
2:L:719:GLY:O	2:L:755:GLU:HG3	2.12	0.49
2:I:608:MET:HA	4:I:2101:FMN:N5	2.27	0.49
2:K:618:VAL:CG1	2:K:648:ILE:HD11	2.43	0.49
2:L:618:VAL:CG1	2:L:648:ILE:HD11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1079:ARG:CG	1:D:1079:ARG:NH1	2.64	0.49
2:K:528:THR:HA	2:K:531:ASN:ND2	2.27	0.49
2:K:582:LYS:HG3	2:K:1110:VAL:HG11	1.93	0.49
2:H:930:THR:CG2	2:H:933:GLU:H	2.25	0.49
1:A:1703:VAL:HG22	1:A:1713:PHE:N	2.27	0.49
2:J:1346:MET:CE	2:J:1617:ARG:NH2	2.75	0.49
2:K:208:LEU:HD12	2:K:227:ILE:CD1	2.40	0.49
2:H:775:VAL:HG12	2:H:777:VAL:HG23	1.94	0.49
2:K:1891:ILE:HD12	2:K:1895:PHE:CE2	2.48	0.49
1:D:1386:THR:HG22	1:D:1629:GLN:HE21	1.76	0.49
2:H:718:PRO:HG3	2:H:727:VAL:HG21	1.93	0.49
1:C:1307:PHE:HB3	1:C:1357:CYS:HB3	1.95	0.49
2:L:76:VAL:O	2:L:80:ILE:HG13	2.12	0.49
1:A:968:PRO:HG3	1:A:1376:TYR:CE1	2.47	0.49
2:L:1456:LEU:HD11	2:L:1543:TYR:CE2	2.46	0.49
2:H:153:PRO:HB3	2:H:270:ARG:HH11	1.78	0.49
2:K:1086:ILE:O	2:K:1090:ILE:HG13	2.13	0.49
2:G:80:ILE:HG12	2:G:105:ILE:CG2	2.43	0.49
2:G:1019:LEU:HA	2:G:1022:ARG:HD2	1.93	0.49
2:H:1517:LEU:HD12	2:H:1521:GLU:HB2	1.93	0.49
2:G:1821:MET:HA	2:G:1826:LEU:HD12	1.95	0.49
1:E:1323:ALA:HB1	1:E:1351:PHE:CE2	2.48	0.49
1:E:716:GLN:NE2	1:E:747:ALA:HB3	2.28	0.49
1:D:890:ASN:OD1	2:I:1755:LYS:HE2	2.13	0.49
2:L:1653:LEU:HD21	2:L:1667:VAL:HG13	1.94	0.49
2:G:1807:GLN:HB3	2:G:1860:VAL:CG1	2.42	0.49
2:L:1142:ILE:HG13	2:L:1209:PRO:HG3	1.95	0.49
2:K:1031:VAL:HG22	2:K:1041:TRP:HB3	1.95	0.49
2:L:1749:PHE:CG	2:L:1758:ARG:HB3	2.47	0.49
2:K:1741:ASN:HD21	2:K:1798:GLY:HA3	1.77	0.49
1:E:334:ALA:O	1:E:338:GLN:HG3	2.12	0.49
2:I:196:PHE:H	2:I:196:PHE:HD2	1.60	0.49
2:H:77:ALA:O	2:H:139:ALA:HB1	2.12	0.49
2:H:614:PRO:O	2:H:618:VAL:HG12	2.13	0.49
2:K:751:HIS:HB2	3:K:2102:NAP:N7N	2.28	0.49
1:B:1106:LEU:HD12	1:D:1104:GLN:HE22	1.78	0.49
2:J:622:MET:O	2:J:656:ARG:NH1	2.46	0.49
1:C:628:TYR:HD1	1:C:629:SER:N	2.11	0.49
2:H:870:THR:HG21	2:H:1064:THR:O	2.13	0.49
2:J:928:ASP:O	2:J:1007:LEU:HD23	2.13	0.49
2:J:582:LYS:HG3	2:J:1110:VAL:CG1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1115:TYR:OH	2:H:1173:HIS:HD2	1.95	0.49
2:G:962:PHE:O	2:G:966:VAL:HG23	2.12	0.49
1:D:20:TYR:CE2	2:J:2062:THR:HG23	2.46	0.49
2:G:460:ILE:CD1	2:G:487:ILE:HD11	2.43	0.49
1:A:1363:MET:HE3	1:A:1368:ALA:CB	2.42	0.49
2:H:743:TRP:CD2	2:H:761:ILE:HD11	2.48	0.49
1:B:983:GLN:O	1:B:987:MET:HG3	2.13	0.49
2:G:207:LEU:HD22	2:G:309:LYS:HG3	1.95	0.49
2:J:361:VAL:O	2:J:365:ILE:HG13	2.12	0.49
2:K:1725:HIS:CD2	2:K:1854:GLU:CB	2.96	0.49
1:C:537:ASN:HB3	1:C:585:MET:SD	2.52	0.49
2:K:1351:VAL:CG1	2:K:1352:VAL:N	2.75	0.49
1:C:330:LYS:HG3	1:C:333:ARG:HH12	1.77	0.49
1:D:1223:GLY:CA	1:D:1276:PRO:HD2	2.42	0.49
2:K:827:GLN:H	2:K:827:GLN:CD	2.14	0.49
2:L:1421:ARG:HD2	2:L:1426:VAL:CG2	2.41	0.49
2:G:1176:PHE:CE1	2:G:1192:LEU:HD13	2.48	0.49
2:G:270:ARG:HG3	2:G:274:GLU:CD	2.33	0.49
2:L:1204:VAL:HG22	2:L:1219:VAL:HG22	1.94	0.49
2:J:596:ARG:HD3	2:J:1119:ARG:HG3	1.94	0.49
2:K:1311:GLY:HA3	2:K:1397:THR:HB	1.95	0.49
1:F:573:VAL:O	1:F:577:LEU:HG	2.13	0.49
1:C:960:ARG:NH1	2:I:968:GLU:OE1	2.46	0.49
2:I:260:HIS:CE1	2:I:543:GLY:HA2	2.47	0.49
2:K:1947:LYS:HG2	2:K:1993:PHE:CD1	2.48	0.49
2:H:1653:LEU:HD21	2:H:1667:VAL:HG13	1.95	0.49
2:H:1208:ASN:N	2:H:1209:PRO:HD3	2.27	0.49
1:A:88:ILE:HG21	2:G:1821:MET:HE2	1.93	0.49
2:I:731:ALA:HA	2:I:739:ILE:CD1	2.42	0.49
2:K:1659:ILE:HG13	2:K:1664:ILE:HD11	1.94	0.49
1:C:962:ASN:HB3	2:I:969:ARG:HD2	1.94	0.49
1:C:329:THR:O	1:C:332:GLN:HB2	2.13	0.49
2:H:357:THR:HG22	2:H:359:SER:H	1.76	0.49
2:H:1269:ALA:HB1	2:H:1271:TYR:CE1	2.47	0.49
1:B:358:PHE:CD2	1:B:358:PHE:C	2.86	0.49
2:J:1975:GLU:O	2:J:1979:GLN:HG3	2.12	0.49
2:L:1946:LEU:HB3	2:L:1951:ILE:HD11	1.94	0.49
2:J:888:ARG:O	2:J:891:ARG:HB2	2.12	0.49
1:C:1082:GLU:HB2	1:C:1085:LEU:HD12	1.95	0.49
1:B:493:PRO:HD2	1:B:517:ARG:O	2.13	0.49
1:D:914:LEU:O	1:D:917:LYS:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:536:SER:HB3	1:D:540:LYS:HD2	1.94	0.49
2:L:472:THR:HG23	2:L:499:VAL:HA	1.95	0.49
2:L:614:PRO:O	2:L:618:VAL:HG12	2.13	0.49
2:J:420:PRO:HG3	2:J:847:TYR:CD1	2.48	0.49
2:K:907:ASN:OD1	2:K:913:VAL:HG12	2.13	0.49
2:G:928:ASP:HA	2:G:1007:LEU:HD23	1.94	0.49
2:H:1180:VAL:HA	2:H:1188:GLN:O	2.13	0.49
2:L:582:LYS:HA	2:L:587:GLN:O	2.12	0.49
2:G:935:VAL:HG11	2:G:997:LEU:HD21	1.94	0.49
2:G:1890:ARG:NH2	2:G:1996:ILE:HD11	2.17	0.49
1:C:998:GLY:HA3	1:C:1361:VAL:CG1	2.36	0.49
2:I:1299:VAL:HG22	2:I:1301:PHE:CD1	2.48	0.49
2:I:460:ILE:O	2:I:486:ILE:HB	2.13	0.49
2:K:358:ARG:HB2	2:K:389:PHE:CE2	2.47	0.49
1:A:22:PHE:HE1	2:G:1867:MET:HG3	1.77	0.49
1:A:1580:VAL:O	1:A:1617:ILE:HD11	2.12	0.49
2:K:197:VAL:HA	2:K:262:MET:HE1	1.95	0.49
2:H:1768:THR:O	2:H:1776:LYS:HB2	2.13	0.49
1:C:853:MET:HG2	1:C:856:ASN:ND2	2.24	0.49
1:D:1213:VAL:HG22	1:D:1300:ARG:CZ	2.42	0.49
2:J:1342:PHE:HE2	2:J:1391:VAL:HB	1.78	0.49
2:G:1384:PRO:HB3	2:G:1829:ARG:HH12	1.78	0.49
1:F:330:LYS:HG3	1:F:333:ARG:HH12	1.77	0.49
2:H:1411:LYS:O	2:H:1434:LEU:HD12	2.12	0.49
2:L:792:LEU:HD23	2:L:1094:HIS:ND1	2.28	0.49
2:L:22:ARG:HD2	2:L:42:HIS:HB3	1.95	0.49
1:E:1338:GLY:C	1:E:1340:MET:H	2.15	0.49
1:C:1154:LEU:HD21	1:F:1118:GLU:OE2	2.12	0.49
1:C:985:ARG:HB3	1:C:1422:ARG:HH22	1.78	0.49
1:D:1512:LEU:HD21	1:D:1641:TYR:CE2	2.48	0.49
2:K:1404:VAL:HA	2:K:1412:MET:O	2.11	0.49
2:I:1653:LEU:CD2	2:I:1667:VAL:HG13	2.43	0.49
1:F:846:TRP:HZ2	1:F:856:ASN:O	1.96	0.49
1:C:716:GLN:NE2	1:C:747:ALA:HB3	2.28	0.49
1:F:9:LEU:HB2	2:L:2050:ILE:HD11	1.94	0.49
1:F:1337:PRO:HA	1:F:1340:MET:CG	2.43	0.49
2:L:1157:VAL:HG13	2:L:1197:ALA:HA	1.94	0.49
2:G:1157:VAL:HG22	2:G:1198:PRO:HD2	1.95	0.49
1:F:1001:GLU:O	1:F:1007:ASN:HA	2.12	0.49
2:K:1555:VAL:O	2:K:1555:VAL:HG12	2.13	0.49
2:H:1946:LEU:HB3	2:H:1951:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:782:LYS:NZ	1:B:786:LYS:HD2	2.27	0.49
2:L:1975:GLU:O	2:L:1979:GLN:HG3	2.13	0.49
2:L:1561:ILE:HB	2:L:1655:HIS:HB3	1.95	0.49
1:D:94:PRO:HD3	2:J:1559:ASN:ND2	2.28	0.49
2:J:1910:VAL:HG11	2:J:1973:ILE:HG21	1.94	0.49
2:J:520:GLY:C	2:J:522:SER:H	2.16	0.49
1:E:450:TYR:CD2	1:E:450:TYR:C	2.85	0.49
1:E:626:TRP:CZ3	1:E:898:PHE:HB2	2.48	0.49
2:H:622:MET:O	2:H:656:ARG:NH1	2.46	0.49
2:L:622:MET:O	2:L:656:ARG:NH1	2.46	0.49
2:L:917:ARG:HB2	2:L:937:ARG:HD3	1.95	0.49
2:G:929:MET:HE1	2:G:934:VAL:HA	1.95	0.49
1:C:833:TRP:HH2	1:C:839:ILE:HD11	1.78	0.49
1:D:746:PHE:CD1	1:D:800:PRO:HG3	2.48	0.49
2:J:1500:ASN:HB2	2:J:1503:VAL:H	1.78	0.49
2:K:1603:PRO:HD2	2:K:1606:ILE:HD11	1.95	0.49
1:F:1005:TRP:HE1	1:F:1561:LEU:HD22	1.74	0.49
2:G:825:SER:CB	2:G:1053:ILE:HG13	2.43	0.49
2:G:1301:PHE:O	2:G:1364:ARG:N	2.42	0.49
2:G:796:TRP:HH2	2:G:805:MET:HE1	1.77	0.49
2:G:1074:LYS:HE3	2:G:1075:TYR:CE1	2.42	0.49
2:J:1093:ASP:O	2:J:1097:PHE:CD1	2.64	0.49
2:L:1725:HIS:CD2	2:L:1854:GLU:CB	2.96	0.49
2:L:1745:LEU:HB3	2:L:1799:LEU:CD2	2.43	0.49
2:J:378:ILE:HG23	2:J:391:VAL:CG1	2.43	0.49
2:J:915:PHE:CD2	2:J:915:PHE:O	2.65	0.49
2:H:1420:LYS:HG2	2:H:1425:PRO:CA	2.41	0.49
1:D:1161:ALA:O	1:D:1163:GLN:HG3	2.13	0.49
2:I:571:ASP:OD1	2:I:573:VAL:HG23	2.13	0.49
2:G:1380:TYR:HD2	2:G:1429:VAL:HG22	1.74	0.49
2:I:1311:GLY:HA3	2:I:1397:THR:HB	1.94	0.49
1:A:503:ARG:HA	1:A:933:ILE:CD1	2.42	0.49
2:J:699:ILE:H	2:J:699:ILE:CD1	2.25	0.49
2:K:291:VAL:O	2:K:295:ILE:HB	2.11	0.49
2:K:1207:THR:O	2:K:1215:THR:HG23	2.13	0.49
2:K:735:PRO:HA	2:K:773:ASN:OD1	2.13	0.49
2:G:411:PRO:HD2	2:G:414:LEU:CD1	2.42	0.49
1:D:1337:PRO:HA	1:D:1340:MET:CG	2.42	0.49
2:H:350:MET:HG3	2:H:435:ILE:CG2	2.43	0.49
2:I:611:THR:HG22	2:I:1051:GLU:OE2	2.13	0.49
1:C:88:ILE:HG21	2:I:1821:MET:CE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1017:LEU:HD21	2:H:1032:PRO:HB2	1.94	0.49
1:E:956:ILE:HG23	2:K:976:GLN:O	2.13	0.49
2:I:1359:LYS:O	2:I:1362:PHE:HD1	1.95	0.49
2:G:980:LEU:HD22	2:G:986:LEU:HD21	1.94	0.49
2:I:1946:LEU:HB3	2:I:1951:ILE:HD11	1.94	0.49
2:H:1887:ASN:OD1	2:H:1889:SER:HB2	2.13	0.49
1:E:9:LEU:HB2	2:K:2050:ILE:HD11	1.95	0.49
1:C:682:VAL:HG11	1:C:695:TYR:CE2	2.47	0.49
2:J:1946:LEU:HB3	2:J:1951:ILE:HD11	1.94	0.49
1:F:1208:GLU:OE2	1:F:1661:ARG:NH2	2.45	0.49
1:C:956:ILE:HA	2:I:977:PRO:HA	1.94	0.49
1:B:808:PHE:HA	1:B:912:LYS:HD3	1.95	0.49
2:I:1738:VAL:HA	2:I:1800:LEU:HD13	1.94	0.49
1:B:929:ARG:O	1:B:933:ILE:HG13	2.12	0.49
1:F:519:PHE:O	1:F:523:VAL:HG23	2.12	0.49
2:I:2053:GLU:HA	2:I:2056:GLU:OE1	2.13	0.49
1:C:1447:VAL:CG2	1:C:1467:LEU:HD21	2.36	0.49
2:H:315:LEU:HA	2:H:318:ILE:HD12	1.94	0.49
1:A:1330:GLU:HG2	1:A:1333:ARG:HH11	1.77	0.49
2:K:595:SER:HB2	2:K:600:VAL:O	2.13	0.49
2:J:1380:TYR:HD2	2:J:1429:VAL:HG22	1.77	0.49
2:K:300:THR:H	2:K:303:GLU:HB3	1.77	0.49
2:I:1380:TYR:HD2	2:I:1429:VAL:HG22	1.78	0.49
2:L:865:ILE:HG21	2:L:867:LYS:HE3	1.95	0.49
2:L:798:THR:HA	2:L:802:TYR:O	2.12	0.49
1:C:997:THR:CG2	1:C:1361:VAL:HG22	2.43	0.49
2:H:43:PHE:CD2	2:I:22:ARG:CD	2.96	0.49
2:H:43:PHE:CE2	2:I:22:ARG:CG	2.96	0.49
2:I:38:PRO:HD2	2:I:104:LEU:CD1	2.43	0.49
2:I:76:VAL:HG11	2:I:109:PHE:CD1	2.48	0.49
2:L:1497:ARG:O	2:L:1505:SER:HB3	2.13	0.49
2:J:1891:ILE:HD12	2:J:1895:PHE:CE2	2.47	0.49
2:J:207:LEU:HD22	2:J:309:LYS:HG3	1.95	0.49
1:E:868:VAL:HG11	1:E:908:ILE:CD1	2.38	0.49
1:B:487:TYR:CE2	1:B:881:LEU:HD13	2.48	0.49
2:J:2013:GLY:O	2:J:2016:PRO:HD2	2.13	0.49
2:G:208:LEU:HD12	2:G:227:ILE:CD1	2.41	0.49
2:I:837:GLY:HA3	2:I:1074:LYS:HG2	1.94	0.49
2:G:2013:GLY:C	2:G:2016:PRO:HD2	2.33	0.49
2:I:825:SER:O	2:I:828:ALA:HB3	2.13	0.49
1:B:1363:MET:HE1	1:B:1373:VAL:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:502:GLU:O	2:H:506:VAL:HG23	2.13	0.49
2:L:820:LYS:HB3	2:L:1080:ASP:O	2.13	0.49
2:L:788:THR:HG22	2:L:1094:HIS:HE1	1.77	0.49
1:A:445:LEU:O	1:A:448:MET:HB2	2.13	0.49
2:L:1751:GLY:O	2:L:1755:LYS:HG2	2.12	0.49
1:C:441:ASN:HB2	1:C:444:LEU:H	1.78	0.49
2:I:92:GLU:HA	2:I:95:HIS:CE1	2.48	0.49
2:J:1421:ARG:HD2	2:J:1426:VAL:CG2	2.43	0.49
1:A:1547:ARG:HG2	1:A:1604:TYR:HD1	1.75	0.49
2:K:915:PHE:CD2	2:K:915:PHE:O	2.66	0.49
1:E:30:GLU:HB2	2:K:2045:ALA:CB	2.42	0.49
2:J:611:THR:HA	2:J:1051:GLU:OE2	2.13	0.49
2:I:1643:VAL:HG13	2:I:1649:ILE:HD11	1.94	0.49
2:I:1328:VAL:HA	2:I:1611:TYR:HE1	1.78	0.49
2:J:291:VAL:O	2:J:295:ILE:HB	2.13	0.49
2:L:1019:LEU:HA	2:L:1022:ARG:HD2	1.95	0.49
2:G:1946:LEU:HB3	2:G:1951:ILE:HD11	1.95	0.49
2:J:1157:VAL:HG22	2:J:1198:PRO:HD2	1.95	0.49
2:J:676:LEU:C	2:J:676:LEU:HD13	2.34	0.49
1:F:1692:GLN:HG3	1:F:1696:PHE:CE2	2.48	0.49
2:I:888:ARG:O	2:I:891:ARG:HB2	2.13	0.49
1:D:1692:GLN:HG3	1:D:1696:PHE:CE2	2.47	0.49
2:G:735:PRO:HA	2:G:773:ASN:OD1	2.12	0.49
1:A:1651:TYR:CE2	1:A:1655:CYS:SG	3.06	0.49
1:B:1293:THR:HG23	1:B:1298:LYS:HB2	1.93	0.49
1:E:1177:GLU:O	1:E:1180:ILE:HB	2.12	0.49
1:D:1082:GLU:HB2	1:D:1085:LEU:HD12	1.95	0.49
2:I:668:ARG:HH21	2:I:1023:ARG:HH12	1.60	0.49
1:B:1229:THR:HB	1:B:1311:GLN:HG3	1.93	0.49
2:J:300:THR:H	2:J:303:GLU:HB3	1.78	0.48
2:G:613:VAL:HG12	2:G:614:PRO:HD3	1.94	0.48
2:K:857:VAL:HG13	2:K:876:TRP:CD1	2.46	0.48
2:L:1769:VAL:HG22	2:L:1775:ILE:CA	2.35	0.48
1:F:911:LEU:O	1:F:911:LEU:HD12	2.13	0.48
1:C:1208:GLU:OE2	1:C:1661:ARG:NH2	2.46	0.48
2:J:472:THR:HB	2:J:493:MET:HB3	1.95	0.48
1:E:973:TRP:NE1	1:E:1648:LYS:HB2	2.27	0.48
2:K:718:PRO:HG3	2:K:727:VAL:CG2	2.43	0.48
2:G:1745:LEU:HD12	2:G:1746:THR:N	2.28	0.48
2:K:1932:ASP:O	2:K:1936:LEU:HD23	2.13	0.48
2:I:1304:PRO:HA	2:I:1365:LYS:NZ	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:ILE:HA	1:A:759:ILE:CD1	2.41	0.48
1:A:1307:PHE:CB	1:A:1357:CYS:HB3	2.43	0.48
2:L:718:PRO:HG2	2:L:741:LEU:CD1	2.43	0.48
1:E:1218:VAL:HG13	1:E:1301:VAL:CG1	2.43	0.48
2:G:788:THR:CG2	2:G:1094:HIS:CE1	2.96	0.48
2:K:785:SER:O	2:K:789:TYR:HB2	2.13	0.48
2:J:1722:ALA:HB1	2:J:1812:LEU:HD21	1.95	0.48
2:K:35:PHE:CD2	2:K:37:VAL:HG22	2.48	0.48
2:G:1204:VAL:HA	2:G:1218:SER:O	2.13	0.48
2:G:784:GLY:HA3	2:G:786:GLU:OE2	2.13	0.48
2:L:350:MET:HG3	2:L:435:ILE:CG2	2.43	0.48
1:F:849:GLY:HA3	1:F:873:GLN:HG3	1.94	0.48
1:B:421:ARG:NH2	1:B:1613:LYS:HB3	2.28	0.48
2:H:931:TYR:O	2:H:935:VAL:HG12	2.13	0.48
1:D:1495:ARG:HG2	1:D:1495:ARG:HH11	1.77	0.48
2:H:520:GLY:C	2:H:522:SER:H	2.16	0.48
2:I:978:SER:O	2:I:981:GLN:HG2	2.12	0.48
2:J:978:SER:O	2:J:981:GLN:HG2	2.13	0.48
1:E:988:VAL:HG12	1:E:990:LEU:HD23	1.94	0.48
2:J:317:TRP:O	2:J:321:ARG:HG2	2.12	0.48
1:E:1075:HIS:HB3	1:E:1166:THR:HB	1.93	0.48
2:J:529:ASN:HD22	2:J:552:VAL:CG2	2.26	0.48
2:I:1344:ALA:N	2:I:1389:LEU:O	2.43	0.48
2:L:1894:THR:HB	2:L:1954:GLN:OE1	2.12	0.48
1:F:1075:HIS:HB3	1:F:1166:THR:HB	1.94	0.48
2:I:1195:LEU:HD23	2:I:1595:VAL:HG12	1.95	0.48
1:E:1330:GLU:HG2	1:E:1333:ARG:HH11	1.76	0.48
2:L:749:GLY:HA3	4:L:2101:FMN:HM81	1.95	0.48
1:B:579:MET:HE1	1:E:907:PHE:CZ	2.47	0.48
2:G:1026:LYS:HE2	2:G:1045:ASP:OD2	2.13	0.48
2:H:928:ASP:O	2:H:1007:LEU:HD23	2.13	0.48
2:K:460:ILE:O	2:K:486:ILE:N	2.46	0.48
2:K:489:GLU:O	2:K:492:ARG:HG2	2.13	0.48
2:G:1180:VAL:HA	2:G:1188:GLN:O	2.12	0.48
2:J:582:LYS:HA	2:J:587:GLN:O	2.13	0.48
2:L:818:THR:HG22	2:L:829:LYS:CB	2.37	0.48
2:K:779:GLY:HA3	2:K:811:MET:CE	2.42	0.48
2:I:1299:VAL:HG13	2:I:1301:PHE:CE1	2.47	0.48
1:A:498:THR:HG22	1:A:508:TYR:CD1	2.49	0.48
2:J:490:LEU:HA	2:J:493:MET:SD	2.53	0.48
2:I:465:LEU:HB2	2:I:479:ARG:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1721:ARG:NH1	2:L:1854:GLU:OE2	2.46	0.48
1:D:759:ILE:HG12	1:D:813:LEU:HD23	1.96	0.48
1:D:422:LEU:HD13	1:D:429:ILE:HG12	1.95	0.48
1:B:1213:VAL:CG1	1:B:1217:GLU:HB2	2.42	0.48
2:G:1932:ASP:O	2:G:1936:LEU:HD23	2.13	0.48
2:L:38:PRO:HD2	2:L:104:LEU:CD1	2.44	0.48
2:L:76:VAL:HG11	2:L:109:PHE:CD1	2.47	0.48
2:G:24:LEU:HD12	2:G:37:VAL:CG2	2.43	0.48
2:J:845:ASN:HB3	2:J:851:THR:HG1	1.78	0.48
2:J:827:GLN:O	2:J:830:GLN:HB3	2.12	0.48
1:B:506:ILE:HD11	1:B:926:SER:HB3	1.95	0.48
1:C:533:SER:HA	1:C:907:PHE:CZ	2.48	0.48
2:L:1515:LEU:HB3	2:L:1525:VAL:CG2	2.44	0.48
1:A:1514:ILE:CD1	1:A:1545:LEU:HB3	2.44	0.48
2:K:797:SER:O	2:K:802:TYR:HB2	2.13	0.48
2:J:776:LEU:HG	2:J:807:PHE:CE2	2.47	0.48
1:A:876:MET:O	1:A:876:MET:HE3	2.13	0.48
1:B:1414:PRO:HG2	1:D:1473:HIS:NE2	2.28	0.48
2:L:1738:VAL:HA	2:L:1800:LEU:HD13	1.95	0.48
1:A:801:LEU:HD13	1:A:822:GLU:HG2	1.94	0.48
1:F:547:SER:HA	1:F:550:LYS:HB2	1.95	0.48
2:I:1975:GLU:O	2:I:1979:GLN:HG3	2.13	0.48
1:D:848:ARG:HG2	1:D:871:PHE:O	2.12	0.48
1:C:801:LEU:HD13	1:C:822:GLU:HG2	1.95	0.48
2:G:834:ASP:O	2:G:836:PRO:HD3	2.13	0.48
2:G:1344:ALA:N	2:G:1389:LEU:O	2.41	0.48
1:E:1132:ILE:HD12	1:E:1137:GLN:HB2	1.94	0.48
2:I:1731:GLY:O	2:I:1747:VAL:HG12	2.13	0.48
2:K:1141:LYS:HE2	2:K:1143:SER:HB2	1.95	0.48
2:I:1286:LYS:NZ	2:I:1367:ASP:HA	2.29	0.48
1:A:1579:GLN:O	1:A:1583:THR:HG23	2.14	0.48
1:B:1050:TRP:CE3	1:B:1050:TRP:HA	2.47	0.48
1:A:358:PHE:CD2	1:A:358:PHE:C	2.87	0.48
2:H:1753:ARG:HG3	2:H:1756:ILE:HD11	1.95	0.48
2:L:357:THR:HG22	2:L:359:SER:H	1.76	0.48
2:K:501:TRP:NE1	2:K:528:THR:CG2	2.71	0.48
2:J:917:ARG:HH11	2:J:917:ARG:HG2	1.68	0.48
2:L:1026:LYS:HE2	2:L:1045:ASP:OD2	2.14	0.48
2:J:172:ILE:HG22	2:J:514:VAL:O	2.12	0.48
2:K:472:THR:HG23	2:K:499:VAL:HA	1.94	0.48
1:E:673:LEU:HD21	1:E:884:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:582:LYS:HG3	2:L:1110:VAL:CG1	2.43	0.48
2:L:750:GLY:O	2:L:865:ILE:HA	2.13	0.48
2:J:2017:PHE:CE2	2:J:2021:LEU:HD11	2.48	0.48
1:D:1363:MET:HE3	1:D:1368:ALA:CB	2.44	0.48
2:J:792:LEU:HD23	2:J:1094:HIS:CE1	2.48	0.48
1:D:408:GLN:HE22	1:D:1610:ARG:H	1.61	0.48
2:G:1251:THR:HG22	2:G:1292:VAL:HG13	1.95	0.48
2:I:1074:LYS:HE3	2:I:1075:TYR:CE1	2.47	0.48
2:G:903:ILE:HD11	2:G:914:TRP:CZ2	2.47	0.48
1:E:759:ILE:N	1:E:759:ILE:HD12	2.29	0.48
2:H:1918:VAL:HG13	2:H:2006:HIS:CB	2.42	0.48
2:J:718:PRO:HG3	2:J:727:VAL:CG2	2.43	0.48
2:H:1093:ASP:O	2:H:1097:PHE:CD1	2.65	0.48
2:K:950:TRP:CE2	2:K:956:LYS:HG3	2.47	0.48
2:K:192:THR:O	2:K:194:PRO:HD3	2.12	0.48
2:J:1352:VAL:HG11	2:J:1395:LEU:HD12	1.95	0.48
2:L:1204:VAL:HA	2:L:1218:SER:O	2.13	0.48
1:E:746:PHE:CD2	3:E:1901:NAP:H4D	2.48	0.48
2:K:1236:LEU:HD21	2:K:1239:ASP:O	2.12	0.48
2:L:731:ALA:HA	2:L:739:ILE:CD1	2.42	0.48
2:H:1207:THR:O	2:H:1215:THR:HG23	2.13	0.48
2:L:202:THR:O	2:L:206:GLU:HG3	2.14	0.48
1:F:1113:LYS:O	1:F:1117:GLU:HG3	2.12	0.48
2:L:1587:TYR:O	2:L:1588:ASN:C	2.51	0.48
1:C:1001:GLU:HG2	1:C:1008:ALA:HB2	1.94	0.48
2:G:1128:PRO:HG2	2:G:1135:ALA:CB	2.44	0.48
2:I:2008:THR:HG22	2:I:2011:ARG:HE	1.78	0.48
2:K:1519:THR:O	2:K:1520:LYS:HB2	2.13	0.48
1:E:1599:MET:HA	1:E:1602:PHE:CD2	2.48	0.48
2:K:1279:GLU:H	2:K:1279:GLU:CD	2.16	0.48
1:D:1031:MET:HE2	1:D:1031:MET:HB3	1.72	0.48
2:I:1279:GLU:CD	2:I:1279:GLU:H	2.16	0.48
2:L:1403:ALA:HB2	2:L:1447:GLN:HG3	1.94	0.48
2:I:73:VAL:HA	2:I:113:PHE:CE2	2.49	0.48
2:I:1261:PHE:HE2	2:I:1285:ILE:HD11	1.77	0.48
1:B:427:ARG:HG3	1:B:492:ILE:HG12	1.95	0.48
2:L:595:SER:HB3	2:L:602:PRO:CD	2.43	0.48
1:A:526:MET:HE1	1:A:614:PHE:HB3	1.94	0.48
1:A:577:LEU:HB2	1:A:579:MET:HG2	1.96	0.48
2:K:315:LEU:HA	2:K:318:ILE:HD12	1.94	0.48
2:K:318:ILE:HA	2:K:451:ILE:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1499:LYS:CG	2:K:1500:ASN:H	2.25	0.48
2:I:765:TYR:CD2	2:I:805:MET:HG2	2.49	0.48
2:I:35:PHE:CE1	2:I:105:ILE:HD13	2.48	0.48
2:G:824:THR:HG22	2:G:828:ALA:HB3	1.95	0.48
1:D:1280:CYS:HA	1:D:1566:LYS:O	2.13	0.48
1:E:498:THR:HG21	1:E:858:LEU:O	2.13	0.48
2:I:472:THR:HB	2:I:493:MET:HB3	1.95	0.48
1:E:1213:VAL:CG1	1:E:1214:HIS:N	2.76	0.48
2:I:663:ILE:CD1	2:I:663:ILE:H	2.10	0.48
2:I:751:HIS:HB2	3:I:2102:NAP:N7N	2.28	0.48
2:L:506:VAL:CG1	2:L:506:VAL:O	2.60	0.48
2:G:708:THR:HB	2:G:709:LEU:HD23	1.96	0.48
2:H:1872:GLU:HA	2:H:1872:GLU:OE1	2.14	0.48
2:G:747:ARG:NH2	2:G:757:PHE:CE1	2.82	0.48
2:K:48:LEU:HB2	2:K:79:TYR:OH	2.14	0.48
2:K:48:LEU:HD11	2:K:101:VAL:HG11	1.95	0.48
2:H:76:VAL:O	2:H:80:ILE:HG13	2.13	0.48
2:J:1192:LEU:HD22	2:J:1196:PHE:HE1	1.79	0.48
2:L:379:GLY:O	2:L:391:VAL:HG13	2.14	0.48
2:G:1192:LEU:HD22	2:G:1196:PHE:HE1	1.76	0.48
2:H:756:ASP:CA	2:H:843:TRP:HH2	2.25	0.48
1:C:1160:VAL:C	1:C:1352:MET:HE1	2.33	0.48
1:A:1131:GLU:HG2	1:A:1138:TYR:CE2	2.47	0.48
1:F:1514:ILE:HD13	1:F:1545:LEU:HB3	1.94	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG3	1.95	0.48
2:K:326:TYR:HA	2:L:1338:ARG:HH21	1.78	0.48
1:A:1011:ARG:HH11	1:A:1012:TRP:HA	1.78	0.48
1:E:1017:TYR:N	1:E:1017:TYR:CD1	2.81	0.48
1:D:914:LEU:CD1	1:D:918:LEU:HD12	2.44	0.48
1:C:782:LYS:NZ	1:C:786:LYS:HD2	2.28	0.48
2:I:1894:THR:HB	2:I:1954:GLN:OE1	2.14	0.48
2:L:1753:ARG:HG3	2:L:1756:ILE:HD11	1.95	0.48
1:E:529:GLY:HA2	1:E:614:PHE:CD2	2.49	0.48
2:G:281:GLY:HA3	2:G:470:TYR:HE1	1.78	0.48
2:K:353:ILE:O	2:K:353:ILE:HG22	2.12	0.48
2:J:1336:VAL:HG12	2:J:1336:VAL:O	2.13	0.48
2:G:1977:ARG:CD	2:G:1978:LYS:HG3	2.44	0.48
2:I:868:LEU:O	2:I:870:THR:HG23	2.14	0.48
2:I:911:GLN:NE2	2:I:1065:CYS:H	2.11	0.48
2:K:856:THR:HG23	2:K:866:HIS:NE2	2.28	0.48
2:L:511:THR:C	2:L:512:HIS:CD2	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:609:THR:CG2	2:J:633:GLY:HA3	2.44	0.48
2:K:685:VAL:CG1	2:K:687:ILE:HG13	2.38	0.48
2:G:1194:ARG:HH21	2:G:1601:ASN:CG	2.17	0.48
1:D:628:TYR:HD1	1:D:629:SER:N	2.12	0.48
2:J:1293:TRP:NE1	2:J:1354:TRP:HZ2	2.11	0.48
2:G:917:ARG:HB2	2:G:937:ARG:HD3	1.94	0.48
2:K:1610:MET:CA	2:K:1610:MET:HE2	2.33	0.48
2:H:663:ILE:N	2:H:663:ILE:HD12	2.27	0.48
2:I:1350:ILE:HG22	2:I:1429:VAL:HG11	1.95	0.48
2:I:762:LEU:HD23	2:I:805:MET:HE1	1.93	0.48
2:G:1436:ARG:NH2	2:G:1602:LEU:HD11	2.28	0.48
1:C:905:LEU:HD22	1:C:911:LEU:CD2	2.43	0.48
2:G:825:SER:HB2	2:G:1053:ILE:HG13	1.95	0.48
2:I:1288:PHE:CE2	2:I:1292:VAL:HG21	2.49	0.48
2:G:1404:VAL:HA	2:G:1412:MET:O	2.13	0.48
2:J:903:ILE:HD11	2:J:914:TRP:CZ2	2.48	0.48
2:L:914:TRP:CD1	2:L:916:GLY:HA3	2.49	0.48
1:B:1183:VAL:HG13	1:B:1252:GLU:OE1	2.13	0.48
2:I:2010:LEU:O	2:I:2014:VAL:HG23	2.13	0.48
1:A:759:ILE:HG12	1:A:813:LEU:HD23	1.96	0.48
2:G:2039:TYR:O	2:G:2041:PRO:HD3	2.13	0.48
2:I:1878:ARG:HE	2:I:1986:PRO:HG3	1.79	0.48
1:F:1223:GLY:CA	1:F:1276:PRO:HD2	2.41	0.48
1:F:1052:ASP:O	1:F:1055:THR:O	2.31	0.48
1:A:1037:ASN:CG	1:A:1674:ILE:HG23	2.33	0.48
2:L:260:HIS:CE1	2:L:543:GLY:HA2	2.49	0.48
1:C:1640:LYS:HG3	1:C:1641:TYR:N	2.28	0.48
1:A:744:VAL:HG12	1:A:746:PHE:CD1	2.49	0.48
1:B:506:ILE:HD13	1:B:922:ILE:HG22	1.95	0.48
1:E:843:VAL:HG22	1:E:843:VAL:O	2.13	0.48
2:I:621:THR:OG1	2:I:1083:ILE:HD13	2.14	0.48
1:C:575:ARG:HG2	1:C:579:MET:SD	2.53	0.48
2:I:1517:LEU:HD12	2:I:1521:GLU:HB2	1.94	0.48
2:K:1266:HIS:CD2	2:K:1275:ARG:CZ	2.97	0.48
2:H:1751:GLY:O	2:H:1752:PRO:C	2.52	0.48
2:J:1554:PRO:HG3	2:J:1659:ILE:HD11	1.95	0.48
2:I:1208:ASN:N	2:I:1209:PRO:HD3	2.29	0.48
2:I:202:THR:HA	2:I:228:LEU:HD11	1.95	0.48
2:G:192:THR:O	2:G:194:PRO:HD3	2.13	0.48
2:L:617:PHE:CD1	2:L:822:ALA:HA	2.48	0.48
1:E:1495:ARG:HG2	1:E:1495:ARG:HH11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:690:LEU:HD22	2:G:691:THR:H	1.78	0.48
1:F:20:TYR:CE1	2:L:2018:ARG:NH2	2.81	0.48
2:H:416:GLN:HE22	2:H:425:LYS:H	1.60	0.48
2:J:126:VAL:HG12	2:J:127:ALA:H	1.76	0.48
1:F:1495:ARG:HG2	1:F:1495:ARG:HH11	1.78	0.48
2:L:1017:LEU:HD21	2:L:1032:PRO:HB2	1.96	0.48
2:I:1905:GLU:O	2:I:1908:ALA:HB3	2.12	0.48
2:G:73:VAL:HA	2:G:113:PHE:CE2	2.49	0.48
2:J:532:LYS:HD3	2:J:537:VAL:HG21	1.95	0.48
2:L:353:ILE:O	2:L:353:ILE:HG22	2.12	0.48
2:I:1443:GLU:HA	2:I:1443:GLU:OE1	2.14	0.48
1:F:1599:MET:HA	1:F:1602:PHE:CD2	2.48	0.48
2:G:1969:LEU:HA	2:G:1972:ILE:HD12	1.94	0.48
2:L:1141:LYS:HE2	2:L:1143:SER:HB2	1.94	0.48
1:D:1463:GLU:O	1:D:1467:LEU:HB2	2.14	0.48
2:K:942:MET:O	2:K:951:ILE:HG13	2.13	0.48
2:J:613:VAL:HG13	2:J:614:PRO:HD3	1.96	0.48
1:E:434:ILE:HD11	1:E:490:VAL:HG21	1.96	0.48
2:G:609:THR:HG23	4:G:2101:FMN:O4	2.13	0.48
2:K:1350:ILE:HG22	2:K:1429:VAL:HG11	1.96	0.48
1:B:585:MET:O	1:B:586:GLN:C	2.51	0.48
2:I:685:VAL:HA	2:I:686:PRO:HD3	1.60	0.48
2:H:1180:VAL:CG1	2:H:1188:GLN:H	2.27	0.48
2:H:1405:ILE:HA	2:H:1445:THR:OG1	2.12	0.48
1:C:500:ILE:HD11	1:C:922:ILE:HG23	1.95	0.48
2:J:459:LYS:O	2:J:461:PRO:HD3	2.14	0.48
2:J:465:LEU:HB2	2:J:479:ARG:CG	2.43	0.48
2:I:250:PHE:O	2:I:315:LEU:HD23	2.13	0.48
1:E:927:ALA:HB1	2:K:1462:GLN:NE2	2.29	0.48
2:G:502:GLU:O	2:G:506:VAL:HG23	2.13	0.48
1:A:401:SER:O	1:A:405:TRP:CD1	2.67	0.48
1:D:846:TRP:HZ2	1:D:856:ASN:O	1.96	0.48
2:L:621:THR:OG1	2:L:1083:ILE:HD13	2.13	0.48
2:I:48:LEU:HD13	2:I:101:VAL:HG11	1.96	0.48
2:L:1551:ILE:CG2	2:L:1552:GLU:N	2.76	0.48
2:G:372:LEU:CD1	2:G:397:SER:HB2	2.42	0.48
2:H:1203:TYR:O	2:H:1219:VAL:HA	2.14	0.48
2:G:260:HIS:CE1	2:G:543:GLY:HA2	2.48	0.48
2:G:699:ILE:N	2:G:699:ILE:HD12	2.28	0.48
2:L:1844:LEU:HD22	2:L:1850:VAL:HG21	1.95	0.48
1:E:1371:MET:O	1:E:1661:ARG:NH1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1129:ILE:HA	1:F:1139:THR:O	2.13	0.48
1:C:30:GLU:HB2	2:I:2045:ALA:CB	2.42	0.48
1:E:662:ALA:HA	1:E:694:TYR:OH	2.13	0.48
1:F:1017:TYR:N	1:F:1017:TYR:CD1	2.80	0.48
1:A:536:SER:HB3	1:A:540:LYS:HD2	1.96	0.48
2:L:1269:ALA:HB1	2:L:1271:TYR:CE1	2.49	0.48
2:K:835:ALA:HB3	2:K:1073:ALA:HB1	1.95	0.48
1:C:1075:HIS:HB3	1:C:1166:THR:HB	1.93	0.48
1:A:382:ILE:HD12	1:A:761:SER:HB3	1.95	0.48
2:I:907:ASN:HA	2:I:913:VAL:HG13	1.96	0.48
2:J:281:GLY:HA3	2:J:470:TYR:HE1	1.77	0.48
1:A:1278:GLY:CA	1:A:1630:LYS:HE2	2.40	0.48
2:I:752:HIS:NE2	2:I:856:THR:HG21	2.28	0.48
2:K:613:VAL:N	2:K:614:PRO:CD	2.76	0.48
2:K:613:VAL:HG12	2:K:614:PRO:HD3	1.94	0.48
2:J:752:HIS:NE2	2:J:856:THR:HG21	2.28	0.48
2:K:937:ARG:NE	2:K:941:LEU:CD1	2.77	0.48
1:D:997:THR:CG2	1:D:1361:VAL:HG22	2.44	0.48
2:I:1411:LYS:O	2:I:1434:LEU:HD12	2.13	0.48
2:H:582:LYS:HA	2:H:587:GLN:O	2.13	0.48
2:H:43:PHE:CZ	2:I:42:HIS:CD2	3.01	0.48
1:B:1094:LYS:HE3	1:B:1316:TYR:CG	2.48	0.48
1:E:1004:PRO:HD3	1:E:1572:TRP:HH2	1.78	0.48
2:I:2044:THR:HG22	2:I:2046:LYS:H	1.78	0.48
2:J:674:ILE:HD13	2:J:705:TYR:HE2	1.73	0.48
2:G:2013:GLY:O	2:G:2016:PRO:HD2	2.13	0.48
1:D:1705:GLN:HA	1:D:1711:LEU:HD23	1.95	0.48
1:C:959:PRO:CG	2:I:974:GLU:HG3	2.42	0.48
1:E:1640:LYS:HD2	1:E:1641:TYR:CE1	2.49	0.48
2:K:1299:VAL:HG13	2:K:1301:PHE:CE1	2.47	0.48
2:G:22:ARG:HD2	2:G:42:HIS:HB3	1.96	0.48
2:K:756:ASP:CA	2:K:843:TRP:HH2	2.27	0.48
2:I:875:PHE:O	2:I:878:GLU:HB2	2.14	0.48
1:B:620:LYS:HE3	1:B:626:TRP:CZ2	2.49	0.48
2:K:317:TRP:CD1	2:K:454:ASP:CG	2.87	0.48
2:J:1946:LEU:HD22	2:J:1951:ILE:HG12	1.95	0.48
2:G:529:ASN:HD22	2:G:552:VAL:HG23	1.79	0.48
2:G:1369:ASP:OD1	2:G:1371:LEU:HB3	2.14	0.48
2:J:1741:ASN:ND2	2:J:1798:GLY:HA3	2.29	0.48
1:C:23:ALA:HA	2:I:2007:SER:O	2.14	0.48
2:I:317:TRP:O	2:I:321:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:187:ARG:NH2	2:I:230:TRP:O	2.46	0.48
2:L:1402:ASN:ND2	2:L:1416:CYS:HB2	2.29	0.48
2:G:1975:GLU:O	2:G:1979:GLN:HG3	2.14	0.48
1:D:1293:THR:HG23	1:D:1298:LYS:HB2	1.95	0.48
2:J:618:VAL:CG1	2:J:648:ILE:HD11	2.43	0.48
1:E:1702:ARG:NH1	1:E:1702:ARG:HG2	2.17	0.48
2:G:609:THR:CB	2:G:610:PRO:HD3	2.44	0.48
1:C:427:ARG:HD2	1:C:490:VAL:HG12	1.96	0.48
2:I:1200:ARG:CD	2:I:1200:ARG:H	2.14	0.48
2:I:501:TRP:NE1	2:I:528:THR:CG2	2.75	0.48
2:L:285:HIS:CD2	2:L:501:TRP:CE3	3.02	0.48
2:K:372:LEU:CD1	2:K:397:SER:HB2	2.44	0.48
2:J:1180:VAL:HA	2:J:1188:GLN:O	2.14	0.48
1:A:1703:VAL:CG1	1:A:1711:LEU:HB3	2.35	0.48
2:I:1610:MET:CE	2:I:1610:MET:HA	2.34	0.48
2:J:1251:THR:HG22	2:J:1292:VAL:HG13	1.94	0.48
2:J:2044:THR:HG21	2:J:2054:TYR:CZ	2.48	0.48
2:G:1497:ARG:O	2:G:1505:SER:HB3	2.14	0.48
1:E:1363:MET:HE3	1:E:1368:ALA:CB	2.44	0.48
2:L:1851:MET:HE3	2:L:2025:ILE:HG12	1.95	0.48
2:I:2013:GLY:C	2:I:2016:PRO:HD2	2.33	0.48
2:J:2005:PHE:CA	2:J:2010:LEU:HD11	2.44	0.48
2:H:1299:VAL:HG13	2:H:1301:PHE:CE1	2.49	0.48
2:J:663:ILE:N	2:J:663:ILE:HD12	2.25	0.48
1:C:585:MET:O	1:C:586:GLN:C	2.52	0.48
2:K:2039:TYR:O	2:K:2041:PRO:HD3	2.13	0.48
2:J:716:PHE:CD1	2:J:727:VAL:HG13	2.48	0.48
2:J:271:GLU:H	2:J:274:GLU:HG3	1.78	0.48
2:J:1366:ILE:HG22	2:J:1366:ILE:O	2.13	0.48
2:I:270:ARG:HG3	2:I:274:GLU:CD	2.33	0.48
2:K:820:LYS:HG3	2:K:821:GLU:HG2	1.95	0.48
1:A:566:PHE:CE1	1:F:552:ILE:HD11	2.49	0.48
2:H:391:VAL:HG12	2:H:398:LEU:HD21	1.95	0.48
2:I:192:THR:O	2:I:194:PRO:HD3	2.14	0.48
2:K:1366:ILE:O	2:K:1366:ILE:HG22	2.13	0.48
2:J:1515:LEU:HB3	2:J:1525:VAL:CG2	2.44	0.48
2:K:202:THR:HA	2:K:228:LEU:HD11	1.96	0.48
2:J:1266:HIS:CD2	2:J:1275:ARG:CZ	2.97	0.48
1:D:36:LEU:HD21	1:D:44:ILE:HD11	1.96	0.48
1:D:491:SER:O	1:D:493:PRO:HD3	2.13	0.48
2:H:1335:PHE:CZ	2:H:1629:ILE:HD13	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:500:ILE:HD11	1:D:922:ILE:HG23	1.94	0.48
1:D:1050:TRP:CE3	1:D:1050:TRP:HA	2.48	0.48
2:K:1331:THR:HG22	2:K:1331:THR:O	2.13	0.48
2:K:594:MET:HB3	2:K:808:ASP:O	2.13	0.48
1:A:662:ALA:HA	1:A:694:TYR:CZ	2.49	0.48
2:G:1910:VAL:HG11	2:G:1973:ILE:HG21	1.94	0.48
1:B:1132:ILE:HD12	1:B:1137:GLN:HB2	1.94	0.48
2:K:609:THR:HA	2:K:631:ALA:HB1	1.94	0.48
2:K:930:THR:CG2	2:K:933:GLU:H	2.24	0.48
1:A:562:SER:CB	1:F:555:GLN:OE1	2.62	0.48
2:G:608:MET:H	2:G:612:THR:CB	2.27	0.48
1:A:492:ILE:HG13	1:A:492:ILE:H	1.48	0.48
2:I:601:PRO:HA	2:I:602:PRO:HD3	1.76	0.48
1:A:1102:ILE:HD11	1:A:1148:LEU:HG	1.95	0.48
2:G:942:MET:O	2:G:951:ILE:HG13	2.14	0.48
2:H:1769:VAL:HG13	2:H:1774:SER:C	2.34	0.48
2:H:1644:LEU:HB3	2:H:1645:PRO:CD	2.44	0.48
2:I:1301:PHE:O	2:I:1364:ARG:N	2.41	0.48
2:I:1795:SER:HB3	2:I:1799:LEU:HD12	1.95	0.48
1:A:31:THR:HG23	2:G:2040:ILE:CG2	2.37	0.48
1:B:1280:CYS:HA	1:B:1566:LYS:O	2.13	0.48
2:K:1764:MET:HG3	2:K:1781:PHE:HE1	1.78	0.48
1:D:859:VAL:O	1:D:859:VAL:HG12	2.13	0.48
1:D:967:PHE:CZ	1:D:1662:GLN:HA	2.49	0.48
2:L:73:VAL:HA	2:L:113:PHE:CE2	2.48	0.48
1:E:1078:ILE:HG23	1:E:1352:MET:HE3	1.95	0.48
2:J:80:ILE:HG12	2:J:105:ILE:CG2	2.44	0.48
1:D:827:ARG:NH1	1:D:831:GLU:OE2	2.46	0.48
1:B:60:THR:HG23	2:H:1922:VAL:HG13	1.96	0.48
2:H:1807:GLN:HB3	2:H:1860:VAL:CG1	2.44	0.48
2:L:1517:LEU:HD12	2:L:1521:GLU:HB2	1.95	0.48
1:E:1084:GLU:CD	1:E:1084:GLU:H	2.17	0.48
2:K:1208:ASN:N	2:K:1209:PRO:HD3	2.28	0.48
2:L:281:GLY:HA3	2:L:470:TYR:HE1	1.79	0.48
1:B:959:PRO:HG2	2:H:974:GLU:HG3	1.96	0.48
2:G:775:VAL:HG12	2:G:777:VAL:HG23	1.96	0.48
2:G:1729:ASN:O	2:G:1757:ILE:HG23	2.13	0.48
1:C:1236:TYR:O	1:F:1237:LYS:HB2	2.14	0.48
2:G:1269:ALA:HB1	2:G:1271:TYR:CE1	2.49	0.48
2:I:1835:GLY:HA3	2:I:1839:GLY:C	2.34	0.48
1:A:754:ARG:N	1:A:810:ASN:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:GLN:HG3	1:D:378:GLU:OE2	2.14	0.48
2:J:505:THR:O	2:J:505:THR:HG22	2.14	0.48
1:C:2:ARG:HB2	1:C:5:VAL:HB	1.95	0.48
2:J:1835:GLY:HA3	2:J:1839:GLY:C	2.34	0.48
2:I:855:ILE:HB	2:I:869:ALA:HB2	1.95	0.48
2:G:511:THR:CG2	2:G:512:HIS:HD2	2.16	0.48
2:L:290:VAL:CG1	2:L:314:LEU:HD23	2.42	0.48
2:L:489:GLU:O	2:L:493:MET:HG3	2.13	0.48
2:H:917:ARG:HB2	2:H:937:ARG:HD3	1.94	0.48
2:G:1200:ARG:HD3	2:G:1200:ARG:N	2.10	0.48
2:L:938:MET:O	2:L:942:MET:HG3	2.14	0.48
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.59	0.48
2:L:685:VAL:CG1	2:L:687:ILE:HG13	2.40	0.48
2:H:1044:LYS:HE2	3:H:2102:NAP:H4B	1.96	0.48
2:G:582:LYS:HA	2:G:587:GLN:O	2.13	0.48
1:D:684:THR:CG2	1:D:686:ARG:H	2.19	0.48
1:E:1686:PRO:HB2	1:E:1713:PHE:CE1	2.49	0.48
2:G:1442:TYR:CG	2:G:1499:LYS:O	2.67	0.48
2:K:903:ILE:HD11	2:K:914:TRP:CZ2	2.48	0.48
2:H:300:THR:H	2:H:303:GLU:HB3	1.77	0.48
1:C:759:ILE:HG12	1:C:813:LEU:HD23	1.96	0.48
2:L:1745:LEU:HD12	2:L:1746:THR:H	1.79	0.48
2:L:1746:THR:CB	2:L:1792:THR:HG23	2.40	0.48
2:H:1871:VAL:HG21	2:H:2003:VAL:HA	1.94	0.48
1:F:15:VAL:HG11	2:L:2022:LEU:CD2	2.42	0.48
1:F:1055:THR:OG1	1:F:1057:GLU:HG2	2.14	0.48
2:J:1305:LEU:HD21	2:J:1365:LYS:HB2	1.96	0.48
2:L:35:PHE:CE1	2:L:105:ILE:HD13	2.49	0.48
1:F:983:GLN:O	1:F:987:MET:HG3	2.13	0.48
2:H:1204:VAL:HA	2:H:1218:SER:O	2.14	0.48
1:D:1096:LEU:O	1:D:1097:LEU:HD23	2.14	0.48
2:I:1881:TYR:CZ	2:I:2009:PHE:HE1	2.32	0.48
2:K:1234:ILE:HG22	2:K:1242:ILE:HG22	1.95	0.48
2:I:1142:ILE:HG13	2:I:1209:PRO:HG2	1.96	0.48
2:L:1208:ASN:N	2:L:1209:PRO:HD3	2.28	0.48
1:F:1323:ALA:HB1	1:F:1351:PHE:CE2	2.49	0.48
2:G:1977:ARG:HD3	2:G:1978:LYS:HG3	1.95	0.48
1:C:967:PHE:CD2	1:C:1662:GLN:HB2	2.49	0.48
2:H:1369:ASP:OD1	2:H:1371:LEU:HB3	2.13	0.48
2:J:1519:THR:O	2:J:1520:LYS:HB2	2.14	0.48
2:J:1510:ILE:HA	2:J:1528:VAL:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1894:THR:HB	2:H:1954:GLN:OE1	2.14	0.48
1:E:1278:GLY:CA	1:E:1630:LYS:HE2	2.41	0.47
2:K:705:TYR:HA	2:K:709:LEU:HD21	1.96	0.47
2:K:708:THR:HB	2:K:709:LEU:HD23	1.96	0.47
2:L:1047:LEU:HD12	2:L:1047:LEU:N	2.29	0.47
2:J:614:PRO:O	2:J:618:VAL:HG12	2.13	0.47
2:H:930:THR:O	2:H:934:VAL:HG23	2.13	0.47
2:I:914:TRP:CH2	2:I:1033:ALA:HA	2.48	0.47
2:L:775:VAL:HG12	2:L:777:VAL:HG23	1.95	0.47
2:J:914:TRP:CH2	2:J:1033:ALA:HA	2.49	0.47
1:C:973:TRP:NE1	1:C:1648:LYS:HB2	2.28	0.47
1:D:740:LEU:HD12	1:D:781:ILE:HD13	1.96	0.47
2:H:1734:ILE:O	2:H:1738:VAL:HG23	2.13	0.47
1:A:472:GLN:HE21	1:A:472:GLN:HA	1.79	0.47
1:D:1213:VAL:CG1	1:D:1214:HIS:N	2.77	0.47
2:G:48:LEU:HD13	2:G:101:VAL:HG11	1.94	0.47
2:L:1120:ILE:HG13	2:L:1169:TYR:CE2	2.49	0.47
2:K:502:GLU:O	2:K:506:VAL:HG23	2.14	0.47
2:G:718:PRO:HG2	2:G:741:LEU:CD1	2.44	0.47
2:G:821:GLU:CD	2:G:1083:ILE:HG13	2.34	0.47
2:K:260:HIS:CE1	2:K:543:GLY:HA2	2.49	0.47
2:L:270:ARG:HG3	2:L:274:GLU:CD	2.34	0.47
2:K:1204:VAL:HA	2:K:1218:SER:O	2.14	0.47
2:I:276:LEU:HD21	2:I:296:ALA:HA	1.95	0.47
1:E:544:ASP:O	1:E:548:VAL:HG23	2.14	0.47
2:I:792:LEU:HD23	2:I:1094:HIS:CE1	2.49	0.47
1:E:876:MET:O	1:E:876:MET:HE3	2.13	0.47
2:K:1175:MET:HA	2:K:1274:ILE:CD1	2.44	0.47
2:L:196:PHE:N	2:L:196:PHE:CD2	2.82	0.47
2:I:350:MET:HG3	2:I:435:ILE:CG2	2.44	0.47
2:H:1328:VAL:HA	2:H:1611:TYR:HE1	1.79	0.47
1:A:1419:LYS:O	1:A:1422:ARG:HB2	2.15	0.47
2:G:1317:ASN:HB3	2:G:1320:ALA:CB	2.44	0.47
2:G:196:PHE:CD2	2:G:196:PHE:N	2.82	0.47
1:F:1367:LEU:HD22	1:F:1371:MET:HG3	1.96	0.47
2:J:529:ASN:HD22	2:J:552:VAL:HG23	1.79	0.47
1:A:493:PRO:HD2	1:A:517:ARG:O	2.14	0.47
1:D:754:ARG:N	1:D:810:ASN:HB3	2.29	0.47
1:F:869:ARG:O	1:F:903:GLY:HA3	2.13	0.47
2:I:1402:ASN:ND2	2:I:1416:CYS:HB2	2.29	0.47
2:G:907:ASN:OD1	2:G:913:VAL:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1634:SER:HB3	2:L:1684:GLU:HB2	1.95	0.47
1:F:46:GLU:HB3	1:F:80:CYS:HA	1.96	0.47
1:B:857:ASN:HA	1:B:860:ALA:HB2	1.96	0.47
2:G:1886:VAL:HG22	2:G:1995:THR:HG22	1.95	0.47
2:H:134:ILE:HG13	2:H:545:ILE:CD1	2.44	0.47
1:F:1463:GLU:O	1:F:1467:LEU:HB2	2.14	0.47
1:C:1443:LEU:HD22	1:C:1474:ILE:HD11	1.95	0.47
2:I:511:THR:CG2	2:I:512:HIS:HD2	2.17	0.47
2:L:459:LYS:O	2:L:461:PRO:HD3	2.14	0.47
1:F:1330:GLU:HG2	1:F:1333:ARG:HH11	1.77	0.47
1:B:535:TYR:CD1	1:B:610:GLU:HB3	2.49	0.47
2:K:600:VAL:HG13	2:K:601:PRO:N	2.28	0.47
2:J:917:ARG:HD3	2:J:937:ARG:CZ	2.43	0.47
2:J:937:ARG:HG3	2:J:941:LEU:HD12	1.95	0.47
2:I:501:TRP:CZ2	2:I:524:ILE:HG21	2.49	0.47
1:C:409:ASP:HB2	1:C:439:ARG:HH12	1.79	0.47
2:G:966:VAL:O	2:G:970:PHE:HD1	1.96	0.47
1:C:989:ASN:H	1:C:1491:ASN:ND2	2.00	0.47
1:A:1280:CYS:HB2	1:A:1626:GLY:HA2	1.95	0.47
1:D:1565:PRO:O	1:D:1566:LYS:C	2.52	0.47
2:L:208:LEU:HD23	2:L:211:LEU:HD12	1.96	0.47
2:H:788:THR:CG2	2:H:1094:HIS:CE1	2.97	0.47
2:H:1932:ASP:O	2:H:1936:LEU:HD23	2.14	0.47
1:A:441:ASN:HB2	1:A:444:LEU:H	1.79	0.47
2:J:1171:TRP:CH2	2:J:1236:LEU:HB2	2.49	0.47
2:I:1171:TRP:CD1	2:I:1172:ARG:N	2.83	0.47
1:B:746:PHE:CD1	1:B:800:PRO:HG3	2.49	0.47
2:G:193:TYR:HD1	2:G:263:ILE:HD13	1.77	0.47
2:G:1515:LEU:HB3	2:G:1525:VAL:CG2	2.43	0.47
1:D:1131:GLU:HG2	1:D:1138:TYR:CE2	2.49	0.47
1:B:546:ARG:NH1	1:B:631:LYS:NZ	2.62	0.47
2:L:92:GLU:HA	2:L:95:HIS:CE1	2.48	0.47
2:I:2009:PHE:HD2	2:I:2009:PHE:C	2.18	0.47
2:K:202:THR:O	2:K:206:GLU:HG3	2.13	0.47
1:C:849:GLY:HA3	1:C:873:GLN:HG3	1.95	0.47
2:L:776:LEU:HG	2:L:807:PHE:CD2	2.48	0.47
1:A:36:LEU:HD21	1:A:44:ILE:HD11	1.95	0.47
1:F:1337:PRO:HA	1:F:1340:MET:HG3	1.95	0.47
2:H:980:LEU:CD2	2:H:986:LEU:HD21	2.44	0.47
2:J:737:PHE:O	2:J:773:ASN:HB3	2.14	0.47
2:H:1753:ARG:HG3	2:H:1756:ILE:CD1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:457:THR:HG22	1:E:464:GLN:HA	1.96	0.47
2:I:1314:GLU:O	2:I:1394:VAL:HA	2.15	0.47
2:H:1510:ILE:HA	2:H:1528:VAL:O	2.14	0.47
2:H:835:ALA:HB3	2:H:1073:ALA:HB1	1.95	0.47
2:J:155:ASP:HB3	2:J:278:ARG:NH1	2.29	0.47
2:L:1865:LEU:O	2:L:1869:VAL:HG22	2.14	0.47
1:C:36:LEU:HD21	1:C:44:ILE:HD11	1.96	0.47
2:L:1622:THR:HA	2:L:1627:ASN:OD1	2.13	0.47
1:B:1514:ILE:HD13	1:B:1545:LEU:HB3	1.96	0.47
2:I:1204:VAL:HA	2:I:1218:SER:O	2.14	0.47
2:H:609:THR:HG23	4:H:2101:FMN:O4	2.14	0.47
2:H:608:MET:HA	4:H:2101:FMN:N5	2.30	0.47
2:K:609:THR:HG23	4:K:2101:FMN:O4	2.15	0.47
2:K:635:TYR:CD2	2:K:641:MET:HG3	2.49	0.47
2:L:460:ILE:O	2:L:486:ILE:N	2.46	0.47
2:H:290:VAL:HG11	2:H:315:LEU:CD1	2.44	0.47
2:G:601:PRO:HB2	2:G:626:TYR:CE2	2.50	0.47
2:G:1200:ARG:H	2:G:1200:ARG:CD	2.14	0.47
2:K:501:TRP:CZ2	2:K:524:ILE:HG21	2.49	0.47
1:B:997:THR:CG2	1:B:1361:VAL:HG22	2.44	0.47
1:F:1102:ILE:HD11	1:F:1148:LEU:HG	1.95	0.47
2:J:942:MET:O	2:J:951:ILE:HG13	2.14	0.47
1:A:1499:ARG:CD	1:E:1476:ARG:HH12	2.20	0.47
2:K:818:THR:HG22	2:K:829:LYS:CB	2.36	0.47
2:L:747:ARG:HH11	2:L:780:SER:CB	2.22	0.47
2:I:440:HIS:NE2	2:I:499:VAL:HG23	2.28	0.47
1:D:973:TRP:NE1	1:D:1648:LYS:HB2	2.28	0.47
2:I:747:ARG:HH11	2:I:780:SER:CB	2.24	0.47
1:B:1565:PRO:O	1:B:1566:LYS:C	2.52	0.47
1:A:452:ILE:CD1	1:A:467:LYS:HA	2.43	0.47
1:C:1161:ALA:O	1:C:1163:GLN:HG3	2.14	0.47
1:D:42:GLU:HG3	2:J:1689:VAL:HG23	1.95	0.47
2:J:153:PRO:HB3	2:J:270:ARG:NH1	2.29	0.47
1:B:392:ASP:HA	1:B:393:PRO:HD2	1.70	0.47
1:B:962:ASN:HD22	2:H:1006:GLN:NE2	2.11	0.47
1:A:502:ALA:HA	1:A:929:ARG:HD3	1.95	0.47
2:L:372:LEU:CD1	2:L:397:SER:HB2	2.43	0.47
2:H:1722:ALA:HB1	2:H:1812:LEU:HD21	1.95	0.47
2:I:1538:ASN:HB3	2:I:1541:ILE:CG2	2.42	0.47
2:K:1305:LEU:HD23	2:K:1366:ILE:HD11	1.96	0.47
1:D:1160:VAL:C	1:D:1352:MET:HE1	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:617:PHE:HE1	2:J:819:ALA:HB3	1.79	0.47
2:J:202:THR:HA	2:J:228:LEU:HD11	1.96	0.47
1:D:914:LEU:HD11	1:D:918:LEU:HD12	1.97	0.47
2:I:907:ASN:OD1	2:I:913:VAL:HG12	2.14	0.47
2:L:1905:GLU:O	2:L:1908:ALA:HB3	2.15	0.47
2:K:655:GLY:HA3	2:K:1272:ALA:CB	2.44	0.47
1:E:1393:VAL:N	1:E:1394:PRO:CD	2.77	0.47
2:L:1743:LYS:HA	2:L:1798:GLY:HA2	1.97	0.47
1:F:560:LYS:O	1:F:564:LEU:HB2	2.15	0.47
2:K:1123:ALA:O	2:K:1126:GLU:HG3	2.14	0.47
1:D:329:THR:O	1:D:332:GLN:HB2	2.14	0.47
2:I:511:THR:C	2:I:512:HIS:CD2	2.88	0.47
2:G:937:ARG:NE	2:G:941:LEU:CD1	2.77	0.47
2:K:2063:GLY:O	2:K:2065:PRO:HD3	2.15	0.47
2:L:686:PRO:HB3	2:L:1187:PHE:HE1	1.76	0.47
2:J:528:THR:HA	2:J:531:ASN:ND2	2.29	0.47
2:H:751:HIS:HB2	3:H:2102:NAP:N7N	2.29	0.47
1:C:1108:PRO:HA	1:C:1140:VAL:O	2.15	0.47
2:H:43:PHE:CG	2:I:22:ARG:CZ	2.96	0.47
1:B:684:THR:CG2	1:B:686:ARG:H	2.18	0.47
1:D:1004:PRO:HD3	1:D:1572:TRP:HH2	1.79	0.47
2:I:290:VAL:HG11	2:I:315:LEU:CD1	2.44	0.47
1:A:869:ARG:O	1:A:903:GLY:HA3	2.14	0.47
2:I:167:VAL:HG23	2:I:169:ILE:HG13	1.95	0.47
1:F:498:THR:HG21	1:F:858:LEU:O	2.15	0.47
1:C:537:ASN:CB	1:C:585:MET:SD	3.02	0.47
2:K:385:SER:HA	2:K:502:GLU:OE1	2.14	0.47
1:A:929:ARG:O	1:A:933:ILE:HG13	2.15	0.47
2:K:22:ARG:HD2	2:K:42:HIS:HB3	1.95	0.47
2:L:1203:TYR:O	2:L:1219:VAL:HA	2.14	0.47
1:A:746:PHE:CG	3:A:1901:NAP:H4D	2.49	0.47
1:F:441:ASN:HB2	1:F:444:LEU:H	1.79	0.47
1:E:1157:ASP:O	1:E:1159:LEU:HD12	2.14	0.47
1:B:846:TRP:HZ2	1:B:856:ASN:O	1.98	0.47
2:G:92:GLU:HA	2:G:95:HIS:CE1	2.49	0.47
2:K:784:GLY:HA3	2:K:786:GLU:OE2	2.13	0.47
1:F:1307:PHE:HB3	1:F:1357:CYS:HB3	1.97	0.47
1:A:535:TYR:HB2	1:F:576:ALA:HA	1.95	0.47
2:L:1266:HIS:CD2	2:L:1275:ARG:CZ	2.97	0.47
2:J:872:GLY:HA2	2:J:909:ASP:O	2.15	0.47
2:I:776:LEU:HG	2:I:807:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:LEU:HD21	1:E:44:ILE:HD11	1.95	0.47
2:G:1338:ARG:HH21	2:I:326:TYR:HA	1.79	0.47
2:G:1945:ILE:HG22	2:G:1946:LEU:N	2.28	0.47
1:E:383:TYR:O	1:E:387:ILE:HG12	2.14	0.47
1:C:875:GLU:O	1:C:878:PHE:HB3	2.13	0.47
2:G:1634:SER:HB3	2:G:1684:GLU:HB2	1.96	0.47
2:J:1887:ASN:OD1	2:J:1889:SER:HB2	2.13	0.47
2:K:1972:ILE:H	2:K:1972:ILE:HG13	1.43	0.47
2:I:798:THR:HA	2:I:802:TYR:O	2.14	0.47
2:G:1017:LEU:O	2:G:1021:GLN:HG3	2.15	0.47
2:I:281:GLY:HA3	2:I:470:TYR:HE1	1.80	0.47
2:L:1872:GLU:HA	2:L:1872:GLU:OE1	2.13	0.47
1:B:1599:MET:HA	1:B:1602:PHE:CD2	2.49	0.47
1:C:1330:GLU:HG2	1:C:1333:ARG:HH11	1.79	0.47
2:H:717:LYS:HD2	4:H:2101:FMN:O2	2.15	0.47
2:H:168:LYS:H	2:H:511:THR:HB	1.79	0.47
2:J:609:THR:HA	2:J:631:ALA:HB1	1.96	0.47
2:K:1115:TYR:CZ	2:K:1174:ALA:HB2	2.49	0.47
2:H:685:VAL:HA	2:H:686:PRO:HD3	1.57	0.47
2:J:818:THR:HA	2:J:829:LYS:HE2	1.97	0.47
2:H:1701:GLU:N	2:H:1704:MET:HE3	2.29	0.47
1:A:408:GLN:CG	1:A:1610:ARG:NH1	2.78	0.47
2:L:747:ARG:NH2	2:L:757:PHE:CE1	2.83	0.47
2:I:300:THR:H	2:I:303:GLU:HB3	1.78	0.47
2:K:388:ASN:HD22	2:K:389:PHE:N	2.13	0.47
2:H:604:MET:CE	2:H:811:MET:HB2	2.45	0.47
1:A:565:GLN:O	1:A:569:LEU:HG	2.13	0.47
1:D:767:HIS:NE2	1:D:771:LEU:HD22	2.29	0.47
1:F:1584:GLY:HA2	1:F:1617:ILE:CD1	2.45	0.47
2:K:1766:PHE:CE1	2:K:1869:VAL:HG23	2.50	0.47
2:K:1113:ILE:CG2	2:K:1169:TYR:CG	2.98	0.47
2:G:1331:THR:HG22	2:G:1331:THR:O	2.14	0.47
1:E:767:HIS:CB	1:E:813:LEU:HD12	2.42	0.47
2:L:1324:PHE:CA	2:L:1583:VAL:HG11	2.44	0.47
2:K:76:VAL:HG11	2:K:109:PHE:CD1	2.49	0.47
2:J:76:VAL:HG11	2:J:109:PHE:CD1	2.49	0.47
2:H:1805:PHE:O	2:H:1808:PRO:HD2	2.13	0.47
1:B:1496:ARG:NH2	1:D:1297:GLY:HA2	2.30	0.47
2:G:1753:ARG:HG3	2:G:1756:ILE:CD1	2.44	0.47
2:K:1554:PRO:HG3	2:K:1659:ILE:HD11	1.96	0.47
1:E:626:TRP:CE3	1:E:898:PHE:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:36:LEU:HD22	1:C:61:LEU:HD21	1.96	0.47
1:F:1082:GLU:HB2	1:F:1085:LEU:HD12	1.97	0.47
1:C:1229:THR:HB	1:C:1311:GLN:HG3	1.97	0.47
1:C:679:LYS:HG2	1:C:708:GLN:HB3	1.96	0.47
2:K:1961:SER:O	2:K:1965:VAL:HG22	2.15	0.47
2:I:1369:ASP:OD1	2:I:1371:LEU:HB3	2.15	0.47
2:G:1586:ASP:OD1	2:G:1588:ASN:HB2	2.13	0.47
2:G:589:PHE:CD1	2:G:1116:PHE:CD2	3.02	0.47
2:H:1656:VAL:O	2:H:1656:VAL:HG22	2.14	0.47
1:B:768:ARG:HA	1:B:772:THR:OG1	2.14	0.47
1:B:1042:LEU:HD12	1:B:1058:PRO:HG3	1.94	0.47
1:A:1443:LEU:HD22	1:A:1474:ILE:HD11	1.96	0.47
1:E:1404:ALA:HA	1:E:1501:ALA:HB1	1.96	0.47
2:L:251:PRO:CG	2:L:316:PHE:HA	2.44	0.47
1:B:1148:LEU:CD1	1:D:1148:LEU:HD13	2.28	0.47
2:K:285:HIS:CD2	2:K:501:TRP:CE3	3.02	0.47
1:B:998:GLY:CA	1:B:1361:VAL:HG13	2.31	0.47
2:G:929:MET:HE1	2:G:934:VAL:HG22	1.95	0.47
2:K:290:VAL:CG1	2:K:314:LEU:HD23	2.44	0.47
2:K:490:LEU:HA	2:K:493:MET:SD	2.55	0.47
2:L:765:TYR:CD2	2:L:805:MET:HG2	2.50	0.47
1:C:911:LEU:O	1:C:911:LEU:HD12	2.14	0.47
2:J:318:ILE:HA	2:J:451:ILE:HD13	1.97	0.47
2:H:2013:GLY:O	2:H:2016:PRO:HD2	2.14	0.47
2:L:2013:GLY:O	2:L:2016:PRO:HD2	2.13	0.47
1:A:868:VAL:HG11	1:A:908:ILE:CD1	2.37	0.47
2:I:502:GLU:O	2:I:506:VAL:HG23	2.14	0.47
1:A:1186:VAL:HG12	1:A:1187:THR:N	2.30	0.47
2:G:117:ASN:OD1	2:G:561:ARG:HB2	2.15	0.47
2:L:1099:LEU:HD12	2:L:1103:TYR:CB	2.45	0.47
2:J:1331:THR:O	2:J:1331:THR:HG22	2.15	0.47
2:L:1311:GLY:HA3	2:L:1397:THR:HB	1.97	0.47
2:K:1886:VAL:HG22	2:K:1995:THR:HG22	1.95	0.47
1:F:962:ASN:HB3	2:L:969:ARG:CD	2.42	0.47
2:K:270:ARG:HG3	2:K:274:GLU:CD	2.34	0.47
2:G:781:GLY:CA	2:G:1071:VAL:HG13	2.44	0.47
1:C:744:VAL:HG12	1:C:746:PHE:CD1	2.50	0.47
2:J:35:PHE:CD2	2:J:37:VAL:HG22	2.48	0.47
1:A:852:LEU:HD23	1:A:852:LEU:O	2.15	0.47
2:I:57:PRO:HB2	2:I:65:GLN:HE22	1.78	0.47
2:L:352:SER:HB2	2:L:433:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1722:ALA:HB1	2:L:1812:LEU:HD21	1.97	0.47
2:I:2009:PHE:CD2	2:I:2009:PHE:C	2.88	0.47
1:F:6:GLU:HA	2:L:2050:ILE:CD1	2.44	0.47
1:C:984:LEU:HD21	1:C:1510:TRP:O	2.15	0.47
1:C:876:MET:HE3	1:C:876:MET:O	2.14	0.47
2:H:1317:ASN:HB3	2:H:1320:ALA:CB	2.44	0.47
1:B:849:GLY:HA3	1:B:873:GLN:HG3	1.97	0.47
2:J:1555:VAL:HG12	2:J:1555:VAL:O	2.14	0.47
2:J:1753:ARG:HG3	2:J:1756:ILE:HD11	1.95	0.47
1:A:1414:PRO:HG2	1:E:1473:HIS:NE2	2.30	0.47
2:L:1555:VAL:HG12	2:L:1555:VAL:O	2.15	0.47
1:B:526:MET:HE3	1:B:614:PHE:HB2	1.97	0.47
1:B:1236:TYR:O	1:D:1237:LYS:HB2	2.14	0.47
2:H:1749:PHE:CG	2:H:1758:ARG:HB3	2.50	0.47
1:E:407:ARG:NH2	1:E:1603:ASP:O	2.47	0.47
2:K:1708:LEU:O	2:K:1708:LEU:HD22	2.14	0.47
1:F:358:PHE:C	1:F:358:PHE:CD2	2.88	0.47
1:A:413:MET:O	1:A:416:ASP:HB2	2.14	0.47
2:J:1561:ILE:HB	2:J:1655:HIS:HB3	1.97	0.47
2:I:708:THR:HB	2:I:709:LEU:HD23	1.96	0.47
2:G:168:LYS:H	2:G:511:THR:HB	1.80	0.47
2:H:1047:LEU:H	2:H:1047:LEU:HD12	1.79	0.47
2:K:846:THR:HG22	2:K:855:ILE:C	2.35	0.47
2:L:250:PHE:O	2:L:315:LEU:HD23	2.15	0.47
1:E:1199:LEU:HD23	1:E:1199:LEU:O	2.14	0.47
1:B:1106:LEU:HD12	1:D:1104:GLN:NE2	2.29	0.47
2:K:685:VAL:CG2	2:K:1186:ARG:NH1	2.69	0.47
2:L:937:ARG:HG3	2:L:941:LEU:HD12	1.97	0.47
2:K:162:ALA:CA	2:K:167:VAL:HG22	2.42	0.47
2:J:932:ALA:O	2:J:935:VAL:HG13	2.13	0.47
2:K:1380:TYR:HD2	2:K:1429:VAL:HG22	1.80	0.47
2:K:2058:VAL:CG1	2:K:2067:ILE:HD12	2.44	0.47
1:F:1148:LEU:HA	1:F:1148:LEU:HD23	1.62	0.47
2:K:791:TYR:CD2	2:K:796:TRP:CG	3.03	0.47
2:J:938:MET:O	2:J:942:MET:HG3	2.14	0.47
2:K:1497:ARG:O	2:K:1505:SER:HB3	2.14	0.47
2:I:582:LYS:HG3	2:I:1110:VAL:CG1	2.45	0.47
2:G:685:VAL:CG2	2:G:1186:ARG:HH12	2.19	0.47
2:G:932:ALA:O	2:G:935:VAL:HG13	2.14	0.47
2:J:2021:LEU:HD22	2:J:2025:ILE:HD11	1.96	0.47
1:A:960:ARG:NH1	2:G:968:GLU:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:43:PHE:CB	2:I:22:ARG:NE	2.77	0.47
2:G:276:LEU:HD21	2:G:296:ALA:HA	1.96	0.47
2:G:472:THR:HG23	2:G:499:VAL:HA	1.97	0.47
2:L:743:TRP:CD2	2:L:761:ILE:HD11	2.48	0.47
2:I:315:LEU:HA	2:I:318:ILE:HD12	1.95	0.47
2:J:792:LEU:HD23	2:J:1094:HIS:ND1	2.29	0.47
2:L:914:TRP:CH2	2:L:1033:ALA:HA	2.50	0.47
1:B:1419:LYS:O	1:B:1422:ARG:HB2	2.14	0.47
2:G:2057:GLU:HA	2:G:2060:ARG:HH12	1.79	0.47
2:J:1768:THR:O	2:J:1776:LYS:HB2	2.15	0.47
2:G:1768:THR:O	2:G:1776:LYS:HB2	2.14	0.47
2:J:783:GLY:HA3	2:J:1075:TYR:CB	2.39	0.47
1:D:392:ASP:HA	1:D:393:PRO:HD2	1.73	0.47
2:H:1764:MET:HG3	2:H:1781:PHE:HE1	1.80	0.47
2:H:1738:VAL:HA	2:H:1800:LEU:HD13	1.96	0.47
2:J:716:PHE:HD1	2:J:727:VAL:CG1	2.27	0.47
2:H:821:GLU:CD	2:H:1083:ILE:HG13	2.35	0.47
2:K:1551:ILE:HG22	2:K:1552:GLU:N	2.29	0.47
2:H:1370:LEU:CA	2:H:1435:TYR:HE2	2.27	0.47
1:B:1426:GLU:HA	1:B:1429:ARG:HB2	1.95	0.47
2:L:76:VAL:HG11	2:L:109:PHE:HD1	1.79	0.47
2:I:1886:VAL:HG22	2:I:1995:THR:HG22	1.97	0.47
2:G:1234:ILE:HG22	2:G:1242:ILE:HG22	1.96	0.47
1:F:1640:LYS:HG3	1:F:1641:TYR:N	2.30	0.47
2:G:271:GLU:H	2:G:274:GLU:HG3	1.80	0.47
1:E:1186:VAL:HG12	1:E:1187:THR:N	2.30	0.47
1:A:1488:SER:HB3	1:E:1484:GLU:OE1	2.14	0.47
2:J:1229:VAL:HG12	2:J:1230:LYS:N	2.29	0.47
2:G:1352:VAL:HG11	2:G:1395:LEU:HD12	1.96	0.47
1:D:655:ALA:CB	1:D:742:TYR:HB2	2.45	0.47
2:L:521:VAL:CG1	2:L:549:ASN:HB2	2.44	0.47
2:L:534:GLY:O	2:L:571:ASP:HA	2.14	0.47
2:H:521:VAL:CG1	2:H:549:ASN:HB2	2.44	0.47
2:G:381:SER:OG	2:G:392:THR:HG23	2.14	0.47
2:K:92:GLU:HA	2:K:95:HIS:CE1	2.49	0.47
2:K:1515:LEU:HB3	2:K:1525:VAL:CG2	2.44	0.47
2:J:1844:LEU:HD22	2:J:1850:VAL:HG21	1.97	0.47
2:G:1142:ILE:HG13	2:G:1209:PRO:HG2	1.97	0.47
2:G:1028:VAL:HA	2:G:1029:PRO:HD3	1.74	0.47
2:H:2009:PHE:CD2	2:H:2009:PHE:C	2.88	0.47
2:L:1643:VAL:CG1	2:L:1649:ILE:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:728:ILE:O	2:K:732:LYS:HG3	2.14	0.47
2:K:611:THR:HG21	2:K:817:MET:HE2	1.95	0.47
2:I:1910:VAL:CG1	2:I:1973:ILE:HG21	2.45	0.47
2:L:1753:ARG:HG3	2:L:1756:ILE:CD1	2.44	0.47
1:B:967:PHE:CD2	1:B:1662:GLN:HB2	2.50	0.47
1:A:334:ALA:O	1:A:338:GLN:HG3	2.15	0.47
2:H:1655:HIS:HE1	2:H:1657:GLY:O	1.98	0.47
2:J:594:MET:HB3	2:J:808:ASP:O	2.14	0.47
2:K:1894:THR:HB	2:K:1954:GLN:OE1	2.15	0.47
2:H:589:PHE:CD1	2:H:1116:PHE:CD2	3.03	0.47
1:D:565:GLN:O	1:D:569:LEU:HG	2.13	0.47
1:A:1599:MET:HA	1:A:1602:PHE:CD2	2.48	0.47
2:L:979:LEU:HB2	2:L:996:ILE:HG23	1.97	0.47
1:E:50:SER:HB2	1:E:52:THR:HG23	1.97	0.47
2:L:1473:PHE:HE1	2:L:1513:VAL:HG21	1.79	0.47
2:G:1914:LEU:O	2:G:1931:GLY:HA3	2.14	0.47
2:I:1561:ILE:HB	2:I:1655:HIS:HB3	1.97	0.47
2:K:1321:VAL:HG12	2:K:1322:ALA:N	2.29	0.47
2:H:838:VAL:HG12	2:H:839:ASP:N	2.30	0.47
1:D:1075:HIS:HB3	1:D:1166:THR:HB	1.96	0.47
1:C:1184:ASP:OD1	1:C:1185:PRO:HD2	2.14	0.47
2:H:1587:TYR:O	2:H:1588:ASN:C	2.53	0.47
2:H:126:VAL:HG12	2:H:127:ALA:H	1.79	0.47
1:D:29:ILE:HD13	2:J:1923:ALA:HA	1.96	0.47
2:J:1634:SER:HB3	2:J:1684:GLU:HB2	1.96	0.47
1:B:427:ARG:NH1	1:B:427:ARG:CG	2.54	0.47
2:H:609:THR:CB	2:H:610:PRO:HD3	2.44	0.47
2:K:608:MET:H	2:K:612:THR:CB	2.26	0.47
2:K:929:MET:HE1	2:K:934:VAL:HA	1.96	0.47
2:H:465:LEU:HB2	2:H:479:ARG:CG	2.45	0.47
2:L:609:THR:CG2	2:L:633:GLY:HA3	2.44	0.47
2:G:1194:ARG:NH2	2:G:1601:ASN:HA	2.30	0.47
2:J:501:TRP:CZ2	2:J:524:ILE:HG21	2.50	0.47
1:C:1104:GLN:HE22	1:F:1106:LEU:HD12	1.80	0.47
2:I:1375:HIS:CE1	2:I:1610:MET:SD	3.07	0.47
1:E:967:PHE:HB3	1:E:968:PRO:HD2	1.97	0.47
1:A:960:ARG:HB3	2:G:969:ARG:NH1	2.30	0.47
1:C:859:VAL:O	1:C:859:VAL:HG12	2.15	0.47
2:G:2058:VAL:CG1	2:G:2067:ILE:HD12	2.45	0.47
2:G:465:LEU:HB2	2:G:479:ARG:HG3	1.96	0.47
1:A:1218:VAL:HG13	1:A:1301:VAL:CG1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:300:THR:H	2:L:303:GLU:HB3	1.79	0.47
2:I:1903:VAL:HG11	2:I:1943:LEU:HD21	1.96	0.47
1:A:1213:VAL:CG1	1:A:1214:HIS:N	2.78	0.47
1:F:422:LEU:HD13	1:F:429:ILE:HG12	1.96	0.47
2:G:1350:ILE:HD13	2:G:1610:MET:SD	2.55	0.47
2:L:821:GLU:CD	2:L:1083:ILE:HG13	2.34	0.47
1:F:1426:GLU:HA	1:F:1429:ARG:HB2	1.97	0.47
2:K:821:GLU:CD	2:K:1083:ILE:HG13	2.35	0.47
1:C:740:LEU:HD12	1:C:781:ILE:HD13	1.96	0.47
2:I:1175:MET:HE1	2:I:1234:ILE:HG21	1.97	0.47
2:J:1204:VAL:HA	2:J:1218:SER:O	2.15	0.47
2:H:1404:VAL:HA	2:H:1412:MET:O	2.14	0.47
2:K:521:VAL:CG1	2:K:549:ASN:HB2	2.45	0.47
1:E:849:GLY:HA3	1:E:873:GLN:HG3	1.97	0.47
2:K:871:ARG:HB2	2:K:909:ASP:HB2	1.95	0.47
1:C:1414:PRO:HG2	1:F:1473:HIS:CD2	2.50	0.47
2:K:327:PRO:O	2:L:1338:ARG:NH2	2.39	0.47
2:H:1561:ILE:HB	2:H:1655:HIS:HB3	1.96	0.47
1:B:889:VAL:O	1:B:893:GLN:HG3	2.15	0.47
1:D:940:ASN:HB3	1:D:949:GLU:OE2	2.15	0.47
1:F:457:THR:HG22	1:F:464:GLN:HA	1.97	0.47
1:E:493:PRO:HD2	1:E:517:ARG:O	2.15	0.47
2:J:1141:LYS:HE2	2:J:1143:SER:HB2	1.96	0.47
1:E:1592:ALA:O	1:E:1593:ASP:C	2.52	0.47
1:F:1232:LEU:HD23	1:F:1232:LEU:HA	1.67	0.47
1:C:383:TYR:O	1:C:387:ILE:HG12	2.15	0.47
2:G:77:ALA:O	2:G:139:ALA:HB1	2.14	0.47
2:G:416:GLN:HE22	2:G:425:LYS:H	1.63	0.47
1:A:411:LEU:HD22	1:A:1612:ILE:HD13	1.96	0.47
2:L:2008:THR:HG22	2:L:2011:ARG:HE	1.80	0.47
2:K:1820:ASP:O	2:K:1823:SER:HB3	2.15	0.47
2:I:609:THR:CB	2:I:610:PRO:HD3	2.44	0.47
2:I:609:THR:HA	2:I:631:ALA:HB1	1.95	0.47
2:I:718:PRO:HG3	2:I:727:VAL:HG21	1.97	0.47
2:L:608:MET:HA	4:L:2101:FMN:N5	2.29	0.47
2:G:1047:LEU:HD12	2:G:1047:LEU:H	1.80	0.47
2:J:1200:ARG:CD	2:J:1200:ARG:H	2.13	0.47
1:A:1702:ARG:HG2	1:A:1702:ARG:NH1	2.20	0.47
2:L:929:MET:HE1	2:L:934:VAL:HA	1.97	0.47
2:G:929:MET:CE	2:G:934:VAL:HA	2.45	0.47
2:H:912:LYS:HB3	2:H:1030:PHE:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:685:VAL:HA	2:J:686:PRO:HD3	1.59	0.47
2:H:582:LYS:HG3	2:H:1110:VAL:CG1	2.45	0.47
2:J:870:THR:HG21	2:J:1064:THR:O	2.15	0.47
1:A:487:TYR:CE2	1:A:881:LEU:HD13	2.50	0.47
1:E:968:PRO:CD	1:E:1374:PRO:HB3	2.45	0.47
2:J:1442:TYR:CG	2:J:1499:LYS:O	2.67	0.47
1:A:1218:VAL:HG22	1:A:1301:VAL:CG1	2.44	0.47
2:I:289:ILE:HG12	2:I:493:MET:CE	2.43	0.47
1:E:1307:PHE:CB	1:E:1357:CYS:HB3	2.44	0.47
1:E:1307:PHE:HB3	1:E:1357:CYS:HB2	1.97	0.47
2:G:347:PRO:HA	2:G:432:PHE:CE1	2.49	0.47
2:G:1093:ASP:O	2:G:1097:PHE:HD1	1.98	0.47
1:D:1306:GLY:O	1:D:1357:CYS:HB2	2.15	0.47
2:K:1301:PHE:HB3	2:K:1364:ARG:HG3	1.97	0.47
1:C:626:TRP:CD2	1:C:898:PHE:HD1	2.33	0.47
1:F:34:VAL:HG11	2:L:2047:PRO:HD3	1.97	0.47
2:L:571:ASP:OD1	2:L:573:VAL:HG23	2.15	0.47
1:F:1484:GLU:O	1:F:1487:THR:HB	2.14	0.47
1:C:399:TYR:HH	1:C:692:THR:HG23	1.80	0.47
2:I:1266:HIS:CD2	2:I:1275:ARG:CZ	2.98	0.47
1:D:679:LYS:HG2	1:D:708:GLN:CB	2.45	0.47
1:C:1303:LEU:HD23	1:C:1303:LEU:HA	1.62	0.47
2:J:871:ARG:HB2	2:J:909:ASP:HB2	1.96	0.47
1:E:1514:ILE:CD1	1:E:1545:LEU:HB3	2.44	0.47
1:F:893:GLN:OE1	2:G:1751:GLY:HA2	2.15	0.47
1:D:536:SER:HB3	1:D:540:LYS:HB3	1.96	0.47
1:C:1402:THR:HG22	1:F:1696:PHE:HB3	1.96	0.47
2:J:541:LEU:HG	2:J:552:VAL:CG1	2.45	0.47
1:B:967:PHE:CD2	1:B:1374:PRO:HG3	2.50	0.47
1:E:995:VAL:HG13	1:E:1375:ILE:HG23	1.96	0.47
1:F:413:MET:O	1:F:416:ASP:HB2	2.15	0.47
2:L:1910:VAL:HG11	2:L:1973:ILE:HG21	1.97	0.47
1:C:1692:GLN:HG3	1:C:1696:PHE:CE2	2.49	0.47
1:B:334:ALA:O	1:B:338:GLN:HG3	2.15	0.47
2:I:520:GLY:C	2:I:522:SER:H	2.17	0.47
2:G:1749:PHE:CG	2:G:1758:ARG:HB3	2.50	0.47
1:A:9:LEU:HB2	2:G:2050:ILE:HD11	1.97	0.47
1:E:1172:ARG:HH11	1:E:1172:ARG:HG3	1.80	0.47
2:I:1813:MET:HG3	2:I:1814:GLU:N	2.30	0.47
1:A:1172:ARG:HG3	1:A:1172:ARG:HH11	1.79	0.47
2:H:1708:LEU:HD22	2:H:1708:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1269:ALA:HB1	2:K:1271:TYR:CE1	2.50	0.47
2:K:1278:MET:HA	2:K:1281:ARG:HB2	1.97	0.47
2:I:717:LYS:HD2	4:I:2101:FMN:O2	2.16	0.47
2:H:846:THR:HG22	2:H:855:ILE:C	2.36	0.47
2:K:749:GLY:HA3	4:K:2101:FMN:HM81	1.97	0.47
2:L:613:VAL:N	2:L:614:PRO:HD3	2.30	0.47
2:L:1265:TYR:HE1	2:L:1267:PRO:HG3	1.73	0.47
2:L:1678:VAL:O	2:L:1679:LEU:HD23	2.15	0.47
2:G:663:ILE:N	2:G:663:ILE:HD12	2.27	0.47
2:K:460:ILE:CD1	2:K:487:ILE:HD11	2.44	0.47
2:H:1602:LEU:HB3	2:H:1604:GLY:H	1.80	0.47
2:K:1061:VAL:HG11	2:K:1066:ILE:HD11	1.97	0.47
2:I:314:LEU:HG	2:I:318:ILE:CD1	2.45	0.47
1:B:1052:ASP:O	1:B:1055:THR:O	2.32	0.47
2:L:1764:MET:HG3	2:L:1781:PHE:HE1	1.79	0.47
1:C:889:VAL:O	1:C:893:GLN:HG3	2.15	0.47
1:A:1186:VAL:HG23	1:A:1309:ASP:HB2	1.96	0.47
2:K:48:LEU:HD13	2:K:101:VAL:HG11	1.95	0.47
2:L:1351:VAL:HG23	2:L:1584:SER:HA	1.97	0.47
2:K:785:SER:CB	2:K:1094:HIS:CD2	2.97	0.47
1:D:445:LEU:O	1:D:448:MET:HB2	2.15	0.47
2:G:1342:PHE:HE2	2:G:1391:VAL:HB	1.79	0.47
2:I:788:THR:CG2	2:I:1094:HIS:CE1	2.98	0.47
1:A:534:GLN:HA	1:A:610:GLU:O	2.15	0.47
2:L:291:VAL:O	2:L:295:ILE:HB	2.14	0.47
1:C:34:VAL:HG21	2:I:2045:ALA:O	2.14	0.47
2:I:204:ILE:HG21	2:I:312:VAL:HG21	1.97	0.47
2:J:1655:HIS:HE1	2:J:1657:GLY:O	1.98	0.47
2:L:980:LEU:HD22	2:L:986:LEU:HD21	1.97	0.47
2:L:1472:TRP:CE2	2:L:1540:VAL:HG22	2.50	0.47
2:H:1975:GLU:O	2:H:1979:GLN:HG3	2.14	0.47
1:C:46:GLU:HB3	1:C:80:CYS:HA	1.98	0.47
1:F:731:ASP:HB3	1:F:735:GLY:HA3	1.96	0.47
2:H:1883:MET:HB2	2:H:2001:ILE:HD12	1.96	0.47
1:A:383:TYR:O	1:A:387:ILE:HG12	2.15	0.47
1:D:334:ALA:O	1:D:338:GLN:HG3	2.15	0.47
2:L:594:MET:HB3	2:L:808:ASP:O	2.14	0.47
1:A:940:ASN:HB3	1:A:949:GLU:OE2	2.15	0.47
1:C:1050:TRP:HA	1:C:1050:TRP:CE3	2.50	0.47
2:L:1656:VAL:HG22	2:L:1656:VAL:O	2.15	0.47
2:I:622:MET:O	2:I:656:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:613:VAL:H	2:L:614:PRO:HD3	1.80	0.46
2:G:608:MET:HA	4:G:2101:FMN:C5A	2.45	0.46
2:G:937:ARG:HG3	2:G:941:LEU:HD12	1.96	0.46
1:E:13:LEU:HD11	2:K:2058:VAL:HG21	1.96	0.46
2:K:1293:TRP:HE1	2:K:1586:ASP:HA	1.80	0.46
2:H:1048:TRP:NE1	2:H:1049:GLN:HG2	2.29	0.46
2:L:528:THR:HA	2:L:531:ASN:ND2	2.30	0.46
2:H:1061:VAL:HG11	2:H:1066:ILE:HD11	1.96	0.46
2:H:1009:ASN:HB2	2:H:1012:ASP:OD2	2.15	0.46
2:L:796:TRP:HH2	2:L:805:MET:HE1	1.78	0.46
2:G:2063:GLY:O	2:G:2065:PRO:HD3	2.16	0.46
2:K:1074:LYS:HG3	2:K:1075:TYR:CD1	2.49	0.46
2:L:1873:ARG:NH1	2:L:2002:ASP:CB	2.78	0.46
1:E:631:LYS:O	1:E:635:ILE:HG22	2.15	0.46
2:I:1026:LYS:HG2	2:I:1027:PRO:HD2	1.98	0.46
1:E:553:ARG:NH2	1:E:567:ASN:HD21	2.13	0.46
2:J:357:THR:HG22	2:J:359:SER:H	1.80	0.46
1:B:574:ILE:H	1:B:574:ILE:HG12	1.60	0.46
2:H:1375:HIS:CE1	2:H:1610:MET:SD	3.03	0.46
2:K:1315:ILE:HA	2:K:1393:ASP:O	2.14	0.46
1:B:21:GLN:O	2:H:2006:HIS:HD2	1.98	0.46
2:L:718:PRO:HG3	2:L:727:VAL:CG2	2.45	0.46
2:G:1171:TRP:CH2	2:G:1236:LEU:HB2	2.49	0.46
1:A:552:ILE:CD1	1:F:552:ILE:HG12	2.45	0.46
2:G:521:VAL:CG1	2:G:549:ASN:HB2	2.45	0.46
1:E:846:TRP:HZ2	1:E:856:ASN:O	1.98	0.46
2:K:746:GLY:O	2:K:843:TRP:NE1	2.48	0.46
2:K:391:VAL:HG12	2:K:398:LEU:HD21	1.97	0.46
2:J:196:PHE:CD2	2:J:196:PHE:N	2.84	0.46
2:H:57:PRO:HB2	2:H:65:GLN:HE22	1.79	0.46
2:I:1722:ALA:HB1	2:I:1812:LEU:HD21	1.97	0.46
2:G:1305:LEU:HD23	2:G:1366:ILE:HD11	1.97	0.46
1:F:1207:TYR:CE2	1:F:1682:LYS:HD2	2.50	0.46
2:J:57:PRO:HB2	2:J:65:GLN:HE22	1.80	0.46
1:E:943:VAL:CG2	2:K:1539:PRO:HG3	2.45	0.46
2:L:1380:TYR:HD2	2:L:1429:VAL:HG22	1.80	0.46
2:H:381:SER:OG	2:H:392:THR:HG23	2.15	0.46
2:G:912:LYS:HB3	2:G:1030:PHE:HA	1.96	0.46
1:B:1078:ILE:HG23	1:B:1352:MET:CE	2.45	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:HD11	1.96	0.46
1:A:1011:ARG:C	1:A:1011:ARG:HD2	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:358:PHE:CD2	1:D:358:PHE:C	2.89	0.46
2:L:1655:HIS:HE1	2:L:1657:GLY:O	1.98	0.46
1:A:536:SER:HB3	1:A:540:LYS:HB3	1.97	0.46
1:A:537:ASN:HB2	1:A:608:LYS:HB2	1.96	0.46
2:G:529:ASN:HD22	2:G:552:VAL:CG2	2.29	0.46
1:E:29:ILE:HG13	2:K:1920:TYR:O	2.15	0.46
1:E:1651:TYR:CE2	1:E:1655:CYS:SG	3.08	0.46
1:C:1698:ASN:HA	1:C:1699:PRO:HD3	1.83	0.46
1:D:1335:ARG:HH11	1:D:1339:GLU:HG2	1.79	0.46
2:K:1335:PHE:CZ	2:K:1629:ILE:HD13	2.50	0.46
2:J:1279:GLU:CD	2:J:1279:GLU:H	2.18	0.46
2:L:1336:VAL:O	2:L:1336:VAL:HG12	2.15	0.46
1:D:1249:ILE:H	1:D:1249:ILE:HG13	1.32	0.46
2:J:1443:GLU:HA	2:J:1443:GLU:OE1	2.15	0.46
2:G:1325:VAL:HG13	2:G:1330:ASN:O	2.15	0.46
1:C:484:PRO:HA	1:C:485:PRO:HD3	1.80	0.46
2:G:1887:ASN:OD1	2:G:1889:SER:HB2	2.14	0.46
1:A:1142:LEU:HD12	1:A:1142:LEU:N	2.30	0.46
1:B:1501:ALA:O	1:B:1504:ARG:HB2	2.14	0.46
1:A:1685:ALA:HB1	1:A:1686:PRO:CD	2.45	0.46
2:L:465:LEU:HB2	2:L:479:ARG:CG	2.46	0.46
2:J:608:MET:HA	4:J:2101:FMN:N5	2.30	0.46
2:L:907:ASN:HD21	2:L:917:ARG:HE	1.62	0.46
2:I:937:ARG:HG3	2:I:941:LEU:HD12	1.96	0.46
2:L:1044:LYS:HE2	3:L:2102:NAP:H4B	1.97	0.46
2:J:686:PRO:HB3	2:J:1187:PHE:CE1	2.51	0.46
2:K:462:ALA:HB3	2:K:483:ASP:HA	1.97	0.46
2:I:1370:LEU:CA	2:I:1435:TYR:HE2	2.27	0.46
1:E:673:LEU:HD21	1:E:884:MET:HE3	1.97	0.46
2:L:2064:SER:OG	2:L:2067:ILE:HB	2.16	0.46
2:J:821:GLU:CD	2:J:1083:ILE:HG13	2.35	0.46
2:I:2013:GLY:O	2:I:2016:PRO:HD2	2.15	0.46
1:D:1099:GLU:HG2	1:D:1149:LEU:HD21	1.96	0.46
1:B:1149:LEU:CB	1:D:1149:LEU:HB2	2.44	0.46
2:H:709:LEU:N	2:H:709:LEU:HD23	2.26	0.46
2:J:708:THR:HB	2:J:709:LEU:HD23	1.97	0.46
2:J:357:THR:O	2:J:361:VAL:HG23	2.15	0.46
2:L:502:GLU:O	2:L:506:VAL:HG23	2.14	0.46
2:K:1352:VAL:HG11	2:K:1395:LEU:HD12	1.97	0.46
2:G:670:MET:CE	2:G:674:ILE:HD11	2.45	0.46
2:H:718:PRO:HG3	2:H:727:VAL:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1050:SER:HA	2:G:1064:THR:HG21	1.97	0.46
2:G:779:GLY:HA3	2:G:811:MET:CE	2.44	0.46
2:I:207:LEU:HD22	2:I:309:LYS:HG3	1.95	0.46
2:J:1886:VAL:HG22	2:J:1995:THR:HG22	1.97	0.46
2:K:221:TYR:CD2	2:K:225:LEU:HD22	2.50	0.46
2:G:1420:LYS:HG2	2:G:1425:PRO:CA	2.43	0.46
2:I:746:GLY:O	2:I:843:TRP:NE1	2.47	0.46
1:B:382:ILE:HG13	1:B:382:ILE:H	1.59	0.46
1:B:347:LEU:HD12	1:E:340:LEU:HD12	1.96	0.46
2:K:1359:LYS:O	2:K:1362:PHE:HD1	1.98	0.46
1:B:88:ILE:HG21	2:H:1821:MET:HE1	1.97	0.46
2:K:1749:PHE:CD2	2:K:1758:ARG:HB3	2.50	0.46
2:L:1622:THR:HG23	2:L:1627:ASN:OD1	2.16	0.46
2:G:1377:SER:HB3	2:G:1432:GLN:HB2	1.96	0.46
1:F:914:LEU:O	1:F:917:LYS:HB3	2.15	0.46
2:G:357:THR:HG22	2:G:359:SER:H	1.80	0.46
2:L:1835:GLY:HA3	2:L:1839:GLY:C	2.35	0.46
2:I:173:PHE:CE2	2:I:516:PHE:HB2	2.50	0.46
1:E:519:PHE:O	1:E:523:VAL:HG23	2.14	0.46
2:L:2053:GLU:HA	2:L:2056:GLU:OE1	2.14	0.46
1:D:889:VAL:O	1:D:893:GLN:HG3	2.15	0.46
1:B:28:TRP:HE1	1:B:32:GLN:NE2	2.13	0.46
1:A:50:SER:HB2	1:A:52:THR:HG23	1.97	0.46
2:J:245:SER:HA	2:J:436:THR:OG1	2.15	0.46
1:A:661:GLY:O	1:A:667:ALA:HB2	2.15	0.46
1:D:844:ILE:HD12	1:D:844:ILE:N	2.31	0.46
2:K:1656:VAL:O	2:K:1656:VAL:HG22	2.15	0.46
2:I:1259:LEU:HD11	2:I:1285:ILE:HG12	1.97	0.46
1:C:1553:VAL:HG22	1:C:1604:TYR:O	2.14	0.46
2:L:601:PRO:HB2	2:L:626:TYR:CE2	2.50	0.46
2:K:1181:PHE:HE1	2:K:1191:PRO:HD2	1.74	0.46
1:D:427:ARG:NH1	1:D:492:ILE:HG12	2.30	0.46
1:B:1079:ARG:NH1	1:B:1079:ARG:HG2	2.11	0.46
2:K:1009:ASN:HB2	2:K:1012:ASP:OD2	2.16	0.46
1:B:1005:TRP:HE1	1:B:1561:LEU:CD2	2.25	0.46
2:L:1499:LYS:CG	2:L:1500:ASN:H	2.26	0.46
2:J:1745:LEU:HD12	2:J:1746:THR:N	2.30	0.46
1:E:498:THR:HG22	1:E:508:TYR:CD1	2.51	0.46
2:J:785:SER:HB3	2:J:1090:ILE:HG23	1.98	0.46
1:B:673:LEU:HD21	1:B:884:MET:CE	2.44	0.46
2:K:1884:CYS:HB3	2:K:1936:LEU:CD1	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2005:PHE:CA	2:L:2010:LEU:HD11	2.46	0.46
1:E:740:LEU:HD12	1:E:781:ILE:HD13	1.98	0.46
1:A:564:LEU:O	1:A:567:ASN:HB2	2.15	0.46
2:L:1709:TYR:CE2	2:L:1716:LYS:HG2	2.50	0.46
1:A:859:VAL:O	1:A:859:VAL:HG12	2.14	0.46
2:J:48:LEU:HD11	2:J:101:VAL:HG11	1.96	0.46
2:G:705:TYR:HA	2:G:709:LEU:HD21	1.97	0.46
2:I:1933:LEU:HB3	2:I:1987:VAL:CG1	2.46	0.46
2:J:1464:LEU:HD13	2:J:1468:ARG:HG3	1.97	0.46
2:K:827:GLN:O	2:K:830:GLN:HB3	2.16	0.46
2:I:1804:GLN:HB3	2:I:1861:PHE:HE1	1.81	0.46
1:C:1055:THR:OG1	1:C:1057:GLU:HG2	2.16	0.46
2:L:48:LEU:HD13	2:L:101:VAL:HG11	1.95	0.46
1:C:1512:LEU:HD21	1:C:1641:TYR:CE2	2.50	0.46
1:E:746:PHE:CD1	1:E:800:PRO:HG3	2.50	0.46
2:L:756:ASP:CA	2:L:843:TRP:HH2	2.28	0.46
2:H:260:HIS:CE1	2:H:543:GLY:HA2	2.50	0.46
2:G:1722:ALA:HB1	2:G:1812:LEU:HD21	1.97	0.46
2:H:372:LEU:CD1	2:H:397:SER:HB2	2.46	0.46
2:G:291:VAL:O	2:G:295:ILE:HB	2.15	0.46
1:F:1083:PRO:HD2	1:F:1084:GLU:OE2	2.16	0.46
1:D:1393:VAL:N	1:D:1394:PRO:HD3	2.30	0.46
2:K:1561:ILE:HB	2:K:1655:HIS:HB3	1.96	0.46
1:E:1577:CYS:HB3	1:E:1620:PHE:CD2	2.50	0.46
2:J:1977:ARG:HD3	2:J:1978:LYS:HG3	1.97	0.46
1:F:940:ASN:HB3	1:F:949:GLU:OE2	2.16	0.46
2:H:529:ASN:HD22	2:H:552:VAL:CG2	2.28	0.46
2:I:617:PHE:CE1	2:I:822:ALA:HB2	2.50	0.46
2:J:1179:GLU:N	2:J:1179:GLU:OE1	2.45	0.46
1:A:687:PHE:C	1:A:687:PHE:CD2	2.88	0.46
1:D:1457:GLU:HG3	1:D:1457:GLU:H	1.51	0.46
1:A:1457:GLU:H	1:A:1457:GLU:HG3	1.47	0.46
2:L:1104:ASP:N	2:L:1104:ASP:OD1	2.48	0.46
2:G:585:VAL:HG12	2:G:585:VAL:O	2.15	0.46
1:A:782:LYS:NZ	1:A:786:LYS:HD2	2.31	0.46
1:B:960:ARG:HH11	2:H:968:GLU:HB3	1.80	0.46
2:L:608:MET:HB3	2:L:608:MET:HE2	1.50	0.46
2:J:167:VAL:C	2:J:168:LYS:HD2	2.36	0.46
1:E:1672:GLY:O	1:E:1676:ASN:N	2.48	0.46
2:K:907:ASN:HA	2:K:913:VAL:HG13	1.98	0.46
2:J:907:ASN:OD1	2:J:913:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1346:MET:CE	2:G:1617:ARG:NH2	2.79	0.46
1:F:1108:PRO:HA	1:F:1140:VAL:O	2.15	0.46
2:K:251:PRO:CG	2:K:316:PHE:HA	2.44	0.46
2:L:1053:ILE:CD1	2:L:1061:VAL:HG13	2.45	0.46
2:I:1009:ASN:HB2	2:I:1012:ASP:OD2	2.16	0.46
2:L:779:GLY:HA3	2:L:811:MET:CE	2.46	0.46
2:K:211:LEU:HD13	2:K:313:GLU:HG3	1.98	0.46
2:H:708:THR:HB	2:H:709:LEU:HD23	1.96	0.46
2:I:2005:PHE:CA	2:I:2010:LEU:HD11	2.45	0.46
1:B:1055:THR:OG1	1:B:1057:GLU:HG2	2.15	0.46
1:D:1703:VAL:HG22	1:D:1712:LYS:C	2.35	0.46
1:D:1052:ASP:O	1:D:1055:THR:O	2.34	0.46
2:I:1932:ASP:O	2:I:1936:LEU:HD23	2.14	0.46
2:J:388:ASN:HD22	2:J:389:PHE:N	2.13	0.46
2:G:44:GLN:HG3	2:G:101:VAL:CG2	2.46	0.46
2:L:1331:THR:O	2:L:1331:THR:HG22	2.15	0.46
1:D:42:GLU:H	2:J:1689:VAL:HB	1.79	0.46
2:J:129:ILE:HG21	2:J:132:LYS:HD2	1.97	0.46
2:H:1370:LEU:CD1	2:H:1373:LEU:HD13	2.44	0.46
2:I:784:GLY:HA3	2:I:786:GLU:OE2	2.15	0.46
2:L:580:LEU:HG	2:L:1098:LEU:HD23	1.97	0.46
2:L:788:THR:CG2	2:L:1094:HIS:CE1	2.99	0.46
2:K:617:PHE:CD1	2:K:822:ALA:HA	2.50	0.46
1:E:441:ASN:HB2	1:E:444:LEU:H	1.81	0.46
2:K:26:LEU:HD23	2:K:49:LYS:HG3	1.98	0.46
1:B:852:LEU:HD23	1:B:852:LEU:O	2.16	0.46
1:F:1505:GLY:O	1:F:1509:THR:HG23	2.16	0.46
2:J:1538:ASN:HB3	2:J:1541:ILE:CG2	2.44	0.46
2:J:1517:LEU:HD12	2:J:1521:GLU:HB2	1.96	0.46
1:C:1131:GLU:HG2	1:C:1138:TYR:CE2	2.50	0.46
2:H:871:ARG:HB2	2:H:909:ASP:HB2	1.97	0.46
1:F:1514:ILE:H	1:F:1514:ILE:HG13	1.35	0.46
1:C:407:ARG:NH1	1:C:1606:VAL:HG23	2.30	0.46
2:K:776:LEU:HG	2:K:807:PHE:CD2	2.51	0.46
1:B:1017:TYR:N	1:B:1017:TYR:CD1	2.81	0.46
1:F:1371:MET:O	1:F:1661:ARG:NH1	2.48	0.46
2:J:2008:THR:HG22	2:J:2011:ARG:HE	1.79	0.46
1:D:1014:MET:O	1:D:1590:ARG:NH2	2.42	0.46
1:F:49:PRO:HG2	2:L:1810:LEU:HD21	1.97	0.46
2:H:317:TRP:O	2:H:321:ARG:HG2	2.15	0.46
2:K:1002:GLU:C	2:K:1004:SER:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1075:HIS:HB3	1:B:1166:THR:HB	1.97	0.46
1:B:1393:VAL:N	1:B:1394:PRO:CD	2.79	0.46
2:I:1519:THR:O	2:I:1520:LYS:HB2	2.16	0.46
2:H:1472:TRP:CE2	2:H:1540:VAL:HG22	2.51	0.46
1:B:869:ARG:O	1:B:903:GLY:HA3	2.15	0.46
2:K:1883:MET:HB2	2:K:2001:ILE:HD12	1.96	0.46
2:L:356:LEU:HD22	2:L:356:LEU:HA	1.77	0.46
1:F:1172:ARG:HG3	1:F:1172:ARG:HH11	1.80	0.46
1:F:1065:LYS:O	1:F:1069:GLU:HB2	2.16	0.46
1:B:1592:ALA:O	1:B:1593:ASP:C	2.54	0.46
1:D:383:TYR:O	1:D:387:ILE:HG12	2.15	0.46
2:K:867:LYS:HB2	2:K:873:VAL:HG11	1.98	0.46
2:L:489:GLU:O	2:L:492:ARG:HG2	2.15	0.46
1:D:1102:ILE:HD11	1:D:1148:LEU:HG	1.96	0.46
1:D:1702:ARG:NH1	1:D:1702:ARG:HG2	2.15	0.46
1:F:555:GLN:HG2	1:F:557:ARG:NH2	2.30	0.46
1:E:1102:ILE:HD11	1:E:1148:LEU:HG	1.98	0.46
2:J:174:GLY:HA2	2:J:524:ILE:CG1	2.45	0.46
1:D:21:GLN:HE21	1:D:21:GLN:HB3	1.58	0.46
1:E:1280:CYS:HB2	1:E:1626:GLY:HA2	1.98	0.46
1:E:1565:PRO:O	1:E:1566:LYS:C	2.52	0.46
1:E:684:THR:CG2	1:E:686:ARG:H	2.23	0.46
2:L:606:ALA:HB2	2:L:811:MET:CG	2.45	0.46
2:I:1701:GLU:H	2:I:1704:MET:HE3	1.79	0.46
2:G:1746:THR:CB	2:G:1792:THR:HG23	2.39	0.46
1:D:1584:GLY:HA2	1:D:1617:ILE:CD1	2.45	0.46
1:E:1213:VAL:CG1	1:E:1217:GLU:HB2	2.46	0.46
2:I:1891:ILE:HD12	2:I:1895:PHE:CE2	2.51	0.46
2:J:912:LYS:HB3	2:J:1030:PHE:HA	1.98	0.46
2:L:1289:TYR:CB	2:L:1370:LEU:HD23	2.45	0.46
2:H:1411:LYS:HB2	2:H:1439:TYR:CD1	2.49	0.46
2:K:1871:VAL:HG21	2:K:2003:VAL:HA	1.95	0.46
2:L:785:SER:HB3	2:L:1090:ILE:HG23	1.97	0.46
2:J:1351:VAL:CG1	2:J:1352:VAL:N	2.79	0.46
1:D:15:VAL:HG11	2:J:2022:LEU:CD2	2.44	0.46
2:H:270:ARG:HG3	2:H:274:GLU:CD	2.36	0.46
2:H:1192:LEU:HD22	2:H:1196:PHE:CE1	2.50	0.46
1:D:441:ASN:HB2	1:D:444:LEU:H	1.80	0.46
1:C:1484:GLU:O	1:C:1487:THR:HB	2.16	0.46
2:J:352:SER:HB2	2:J:433:LEU:HD11	1.98	0.46
2:J:875:PHE:HE2	2:J:906:LEU:HD23	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:699:ILE:H	2:G:699:ILE:CD1	2.28	0.46
2:K:1538:ASN:HB3	2:K:1541:ILE:CG2	2.45	0.46
2:K:1175:MET:HE1	2:K:1234:ILE:HG21	1.95	0.46
1:D:914:LEU:HD11	1:D:918:LEU:CD1	2.45	0.46
1:C:457:THR:HG22	1:C:464:GLN:HA	1.98	0.46
1:E:1556:ILE:CD1	1:E:1587:PRO:HD2	2.44	0.46
2:H:1402:ASN:ND2	2:H:1416:CYS:HB2	2.31	0.46
1:B:718:SER:HA	1:E:378:GLU:OE1	2.16	0.46
1:E:413:MET:O	1:E:416:ASP:HB2	2.16	0.46
2:H:2053:GLU:HA	2:H:2056:GLU:OE1	2.15	0.46
2:I:1106:LYS:HD3	2:I:1106:LYS:HA	1.77	0.46
2:I:870:THR:HG21	2:I:1064:THR:O	2.16	0.46
2:H:618:VAL:HG11	2:H:648:ILE:HD11	1.96	0.46
2:H:609:THR:HA	2:H:631:ALA:HB1	1.98	0.46
2:H:749:GLY:HA3	4:H:2101:FMN:HM81	1.98	0.46
2:J:797:SER:O	2:J:802:TYR:HB2	2.16	0.46
2:H:685:VAL:HG23	2:H:1186:ARG:NH1	2.30	0.46
2:G:1009:ASN:HD22	2:G:1009:ASN:HA	1.53	0.46
2:G:1873:ARG:NH1	2:G:2002:ASP:CB	2.77	0.46
2:G:314:LEU:HG	2:G:318:ILE:CD1	2.44	0.46
2:G:440:HIS:NE2	2:G:499:VAL:HG23	2.31	0.46
2:J:1742:PRO:O	2:J:1799:LEU:HD13	2.15	0.46
1:E:869:ARG:HB2	1:E:869:ARG:HE	1.62	0.46
1:E:1055:THR:OG1	1:E:1057:GLU:HG2	2.15	0.46
2:I:1871:VAL:HG21	2:I:2003:VAL:HA	1.97	0.46
2:I:154:TYR:CD1	2:I:561:ARG:NH2	2.84	0.46
1:F:859:VAL:HG12	1:F:859:VAL:O	2.14	0.46
1:A:1494:TRP:CG	1:A:1505:GLY:HA3	2.51	0.46
2:G:1725:HIS:CD2	2:G:1854:GLU:CB	2.98	0.46
1:C:987:MET:O	1:C:1490:GLY:HA3	2.15	0.46
1:A:1078:ILE:HA	1:A:1162:GLY:HA2	1.97	0.46
2:I:1234:ILE:HG22	2:I:1242:ILE:HG22	1.96	0.46
2:K:1456:LEU:HD11	2:K:1543:TYR:CE2	2.49	0.46
1:A:34:VAL:HG11	2:G:2047:PRO:HD3	1.97	0.46
1:B:472:GLN:HE21	1:B:472:GLN:HA	1.81	0.46
2:J:827:GLN:H	2:J:827:GLN:CD	2.18	0.46
2:G:827:GLN:H	2:G:827:GLN:CD	2.18	0.46
1:B:401:SER:O	1:B:405:TRP:CD1	2.69	0.46
1:A:1343:PRO:O	1:A:1531:ASP:OD2	2.34	0.46
1:B:1446:GLU:HA	1:B:1449:ALA:HB3	1.97	0.46
2:G:352:SER:HB2	2:G:433:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1208:ASN:N	2:J:1209:PRO:HD3	2.31	0.46
2:K:1753:ARG:HG3	2:K:1756:ILE:CD1	2.46	0.46
2:K:534:GLY:O	2:K:571:ASP:HA	2.15	0.46
2:H:1555:VAL:HG12	2:H:1555:VAL:O	2.15	0.46
1:C:411:LEU:CD2	1:C:1612:ILE:HD13	2.45	0.46
2:H:617:PHE:CD1	2:H:822:ALA:HA	2.51	0.46
2:G:113:PHE:N	2:G:113:PHE:CD1	2.84	0.46
2:I:1371:LEU:O	2:I:1590:ILE:HD11	2.15	0.46
2:J:2053:GLU:HA	2:J:2056:GLU:OE1	2.16	0.46
1:E:996:VAL:HG11	1:E:1578:LEU:HD11	1.96	0.46
2:L:1002:GLU:C	2:L:1004:SER:H	2.18	0.46
1:E:79:LEU:HD12	1:E:88:ILE:HD13	1.98	0.46
1:E:961:ALA:HB2	1:E:1022:LEU:HD12	1.98	0.46
1:A:1402:THR:HG22	1:E:1696:PHE:HB3	1.97	0.46
2:J:719:GLY:O	2:J:755:GLU:HG3	2.16	0.46
2:L:2009:PHE:CD2	2:L:2009:PHE:C	2.88	0.46
1:C:1031:MET:HE2	1:C:1031:MET:HB3	1.78	0.46
1:D:687:PHE:CD2	1:D:687:PHE:C	2.89	0.46
1:B:1296:GLN:HE21	1:D:1296:GLN:HG2	1.80	0.46
1:D:1553:VAL:HG22	1:D:1604:TYR:O	2.15	0.46
2:J:1231:THR:CG2	2:J:1595:VAL:HG11	2.46	0.46
2:L:490:LEU:HD23	2:L:493:MET:SD	2.56	0.46
2:L:609:THR:HA	2:L:631:ALA:HB1	1.98	0.46
2:K:685:VAL:HA	2:K:686:PRO:HD3	1.63	0.46
1:D:492:ILE:H	1:D:492:ILE:HG13	1.45	0.46
2:G:609:THR:HA	2:G:631:ALA:HB1	1.98	0.46
2:K:1587:TYR:O	2:K:1588:ASN:C	2.53	0.46
2:J:1181:PHE:HE1	2:J:1191:PRO:HD2	1.79	0.46
2:J:1635:TYR:CE2	2:J:1637:VAL:HG23	2.51	0.46
2:K:1602:LEU:HB3	2:K:1604:GLY:H	1.81	0.46
2:J:250:PHE:O	2:J:315:LEU:HD23	2.16	0.46
1:C:440:SER:HB3	1:C:481:LEU:CD2	2.42	0.46
2:H:1251:THR:HG22	2:H:1292:VAL:HG13	1.97	0.46
1:A:905:LEU:HD23	1:A:908:ILE:HD12	1.97	0.46
2:J:747:ARG:NH1	2:J:780:SER:O	2.48	0.46
2:G:1232:VAL:HA	2:G:1245:THR:O	2.15	0.46
1:C:1037:ASN:CG	1:C:1674:ILE:HG23	2.36	0.46
2:H:208:LEU:HD12	2:H:227:ILE:CD1	2.43	0.46
1:A:1154:LEU:HA	1:A:1154:LEU:HD23	1.69	0.46
2:G:718:PRO:HG3	2:G:727:VAL:CG2	2.46	0.46
1:C:12:THR:CG2	2:I:2066:LYS:HD3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1236:LEU:HD12	2:G:1241:GLU:O	2.16	0.46
2:L:1299:VAL:HG13	2:L:1301:PHE:CE1	2.51	0.46
2:I:391:VAL:HG12	2:I:398:LEU:HD21	1.96	0.46
1:D:1484:GLU:O	1:D:1487:THR:HB	2.16	0.46
2:L:1404:VAL:HA	2:L:1412:MET:O	2.15	0.46
2:L:1966:ARG:HG3	2:L:1967:ALA:N	2.30	0.46
1:B:1371:MET:O	1:B:1661:ARG:NH1	2.47	0.46
2:I:616:ASP:OD2	2:I:823:HIS:NE2	2.48	0.46
1:E:414:TYR:C	1:E:414:TYR:CD2	2.88	0.46
1:F:88:ILE:HG21	2:L:1821:MET:HE1	1.97	0.46
1:E:1546:GLY:O	1:E:1547:ARG:C	2.54	0.46
2:L:737:PHE:O	2:L:773:ASN:HB3	2.15	0.46
1:B:755:GLU:HG2	1:E:831:GLU:HG2	1.98	0.46
2:K:1017:LEU:HD21	2:K:1032:PRO:HB2	1.97	0.46
1:B:967:PHE:HB3	1:B:968:PRO:CD	2.46	0.46
2:I:1655:HIS:HE1	2:I:1657:GLY:O	1.99	0.46
1:F:1177:GLU:O	1:F:1180:ILE:HB	2.15	0.46
1:D:1208:GLU:OE2	1:D:1661:ARG:NH2	2.47	0.46
2:J:1491:ARG:O	2:J:1492:LEU:HD23	2.15	0.46
2:L:1914:LEU:O	2:L:1931:GLY:HA3	2.16	0.46
1:E:8:GLU:HG2	2:K:2027:LYS:HD3	1.97	0.46
2:I:1920:TYR:HD2	2:I:1927:TYR:HE2	1.62	0.46
1:A:1592:ALA:O	1:A:1593:ASP:C	2.54	0.46
2:K:690:LEU:HB2	2:K:711:ILE:HG21	1.97	0.46
2:K:1325:VAL:HG13	2:K:1330:ASN:O	2.15	0.46
1:E:1142:LEU:HD12	1:E:1142:LEU:N	2.31	0.46
1:B:1313:GLU:HG2	1:B:1313:GLU:H	1.55	0.46
2:L:1106:LYS:HA	2:L:1106:LYS:HD3	1.76	0.46
2:H:353:ILE:O	2:H:353:ILE:HG22	2.16	0.46
2:H:1179:GLU:OE1	2:H:1179:GLU:N	2.49	0.46
1:E:687:PHE:C	1:E:687:PHE:CD2	2.89	0.46
1:F:1313:GLU:HG2	1:F:1313:GLU:H	1.47	0.46
1:B:46:GLU:HB3	1:B:80:CYS:HA	1.98	0.46
2:I:662:LEU:HD22	2:I:673:GLN:OE1	2.16	0.46
2:G:511:THR:C	2:G:512:HIS:CD2	2.89	0.46
2:G:2052:LYS:HG2	2:G:2052:LYS:H	1.42	0.46
2:K:1350:ILE:HD13	2:K:1610:MET:SD	2.56	0.46
2:L:1180:VAL:CG1	2:L:1188:GLN:H	2.28	0.46
2:L:865:ILE:HG22	2:L:867:LYS:HG3	1.98	0.46
1:C:1218:VAL:O	1:C:1271:GLY:HA3	2.16	0.46
2:I:460:ILE:CD1	2:I:487:ILE:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:ASN:C	1:A:904:GLY:H	2.19	0.46
1:D:31:THR:HG23	2:J:2040:ILE:CG2	2.42	0.46
1:E:1584:GLY:HA2	1:E:1617:ILE:HD12	1.98	0.46
2:H:674:ILE:HD13	2:H:705:TYR:HE2	1.75	0.46
2:J:1985:GLN:C	2:J:1987:VAL:N	2.67	0.46
2:K:1807:GLN:HB3	2:K:1860:VAL:CG1	2.46	0.46
2:K:1903:VAL:HG11	2:K:1943:LEU:HD21	1.98	0.46
2:K:596:ARG:HD3	2:K:1119:ARG:HG3	1.98	0.46
2:J:751:HIS:HB2	3:J:2102:NAP:N7N	2.30	0.46
2:H:358:ARG:HB2	2:H:389:PHE:CE2	2.51	0.46
1:C:422:LEU:HD13	1:C:429:ILE:HG12	1.96	0.46
2:L:894:GLU:CD	2:L:897:LYS:HD3	2.35	0.46
2:G:1203:TYR:O	2:G:1219:VAL:HA	2.16	0.46
2:I:26:LEU:HD23	2:I:49:LYS:HG3	1.97	0.46
1:B:626:TRP:CZ3	1:B:898:PHE:HB2	2.51	0.46
1:E:1446:GLU:HA	1:E:1449:ALA:HB3	1.97	0.46
2:L:1553:GLN:HB3	2:L:1554:PRO:HD2	1.97	0.46
2:H:1643:VAL:CG1	2:H:1649:ILE:HD11	2.46	0.46
1:B:1078:ILE:HA	1:B:1162:GLY:HA2	1.98	0.46
2:H:1019:LEU:HA	2:H:1022:ARG:HD2	1.96	0.46
2:H:1315:ILE:HA	2:H:1393:ASP:O	2.16	0.46
1:E:1522:PHE:HB2	1:E:1557:PHE:CD1	2.51	0.46
1:D:849:GLY:HA3	1:D:873:GLN:HG3	1.97	0.46
1:B:17:LEU:HD23	2:H:2043:VAL:CG2	2.45	0.46
1:D:984:LEU:HD21	1:D:1510:TRP:O	2.16	0.46
1:C:88:ILE:HG21	2:I:1821:MET:HE2	1.97	0.46
2:J:1359:LYS:O	2:J:1362:PHE:HD1	1.98	0.46
2:G:534:GLY:O	2:G:571:ASP:HA	2.15	0.46
2:I:1157:VAL:HG22	2:I:1198:PRO:HD2	1.98	0.46
2:I:1734:ILE:O	2:I:1738:VAL:HG23	2.15	0.46
2:L:1977:ARG:CD	2:L:1978:LYS:HG3	2.46	0.46
1:D:1579:GLN:O	1:D:1583:THR:HG23	2.16	0.46
1:F:879:ASN:HB3	1:F:901:LEU:HD13	1.98	0.46
1:E:661:GLY:O	1:E:667:ALA:HB2	2.16	0.46
1:C:1157:ASP:O	1:C:1327:ALA:HB3	2.16	0.46
1:A:24:MET:HB3	2:G:2043:VAL:HG12	1.97	0.46
1:D:519:PHE:O	1:D:523:VAL:HG23	2.16	0.46
2:G:2053:GLU:HA	2:G:2056:GLU:OE1	2.16	0.46
1:D:1172:ARG:HH11	1:D:1172:ARG:HG3	1.80	0.46
2:J:1483:LEU:H	2:J:1483:LEU:HG	1.11	0.46
2:J:1820:ASP:O	2:J:1823:SER:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:ALA:HB3	2:J:371:HIS:HB2	1.98	0.46
1:B:1553:VAL:HG22	1:B:1604:TYR:O	2.16	0.46
2:I:1203:TYR:O	2:I:1219:VAL:HA	2.15	0.46
1:B:1330:GLU:HG2	1:B:1333:ARG:HH11	1.80	0.46
2:H:1047:LEU:CD1	2:H:1047:LEU:H	2.28	0.46
2:H:460:ILE:CD1	2:H:487:ILE:HD11	2.46	0.46
1:B:1107:GLU:HA	1:B:1108:PRO:HD3	1.71	0.46
2:J:600:VAL:HG13	2:J:601:PRO:N	2.30	0.46
2:L:1644:LEU:HB3	2:L:1645:PRO:CD	2.45	0.46
1:A:498:THR:HG21	1:A:858:LEU:O	2.16	0.46
2:J:208:LEU:HD12	2:J:227:ILE:CD1	2.40	0.46
2:I:382:LEU:HG	2:I:390:VAL:HB	1.98	0.46
2:J:606:ALA:HB2	2:J:811:MET:CG	2.46	0.46
1:D:1674:ILE:HG22	1:D:1675:ASN:OD1	2.16	0.46
1:F:1213:VAL:CG1	1:F:1217:GLU:HB2	2.46	0.46
2:L:726:GLN:O	2:L:730:ILE:HG12	2.16	0.46
2:G:726:GLN:O	2:G:730:ILE:HG12	2.15	0.46
2:J:1305:LEU:CD1	2:J:1305:LEU:H	2.26	0.46
2:I:1802:ALA:CB	2:I:1804:GLN:HE22	2.27	0.46
1:E:1078:ILE:HA	1:E:1162:GLY:HA2	1.98	0.46
1:C:502:ALA:O	1:C:929:ARG:HD3	2.15	0.46
2:L:1342:PHE:HE2	2:L:1391:VAL:HB	1.81	0.46
2:J:521:VAL:CG1	2:J:549:ASN:HB2	2.45	0.46
1:A:1160:VAL:HG11	1:A:1337:PRO:HB3	1.97	0.46
1:E:1179:ILE:O	1:E:1183:VAL:HG23	2.15	0.46
1:E:1187:THR:OG1	1:E:1258:MET:HG3	2.16	0.46
1:F:746:PHE:CG	3:F:1901:NAP:H4D	2.51	0.46
2:H:1311:GLY:HA3	2:H:1397:THR:HB	1.98	0.46
2:H:655:GLY:HA3	2:H:1272:ALA:HB2	1.98	0.46
2:L:950:TRP:CE2	2:L:956:LYS:HG3	2.51	0.46
2:L:827:GLN:H	2:L:827:GLN:CD	2.19	0.46
1:E:401:SER:O	1:E:405:TRP:CD1	2.69	0.46
1:B:1131:GLU:HG2	1:B:1138:TYR:CE2	2.50	0.46
2:H:1204:VAL:HG22	2:H:1219:VAL:HG22	1.98	0.46
2:I:1807:GLN:HB3	2:I:1860:VAL:CG1	2.46	0.46
2:L:1948:MET:HG2	2:L:1993:PHE:CZ	2.51	0.46
2:K:2009:PHE:CD2	2:K:2009:PHE:C	2.89	0.46
2:L:1175:MET:HE1	2:L:1234:ILE:HG21	1.97	0.46
2:L:1309:PHE:N	2:L:1309:PHE:CD1	2.84	0.46
1:F:1142:LEU:HD12	1:F:1142:LEU:H	1.79	0.46
2:I:411:PRO:HD2	2:I:414:LEU:CD1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1031:VAL:HA	2:H:1032:PRO:HD3	1.69	0.46
2:J:1587:TYR:O	2:J:1588:ASN:C	2.54	0.46
2:K:1741:ASN:ND2	2:K:1798:GLY:HA3	2.31	0.46
2:L:1555:VAL:HG21	2:L:1824:LYS:HA	1.97	0.46
1:F:1175:VAL:HA	1:F:1176:PRO:HD3	1.78	0.46
2:G:1622:THR:HG23	2:G:1627:ASN:OD1	2.16	0.46
2:J:1402:ASN:ND2	2:J:1416:CYS:HB2	2.31	0.46
1:A:457:THR:HG22	1:A:464:GLN:HA	1.97	0.46
1:D:996:VAL:HG11	1:D:1578:LEU:HD11	1.98	0.46
2:H:1104:ASP:N	2:H:1104:ASP:OD1	2.49	0.46
2:J:1104:ASP:N	2:J:1104:ASP:OD1	2.48	0.46
2:I:1555:VAL:HG12	2:I:1555:VAL:O	2.14	0.46
1:C:450:TYR:C	1:C:450:TYR:CD2	2.89	0.46
2:H:1634:SER:HB3	2:H:1684:GLU:HB2	1.98	0.46
2:J:1344:ALA:N	2:J:1389:LEU:O	2.41	0.46
2:J:52:PHE:HB2	2:J:82:PHE:CE2	2.50	0.46
2:K:870:THR:HG21	2:K:1064:THR:O	2.16	0.46
2:L:613:VAL:HG13	2:L:614:PRO:CD	2.46	0.46
2:G:1194:ARG:NH2	2:G:1601:ASN:CG	2.70	0.46
1:C:673:LEU:HD21	1:C:884:MET:CE	2.46	0.46
2:J:791:TYR:CD2	2:J:796:TRP:CG	3.03	0.46
2:K:932:ALA:O	2:K:935:VAL:HG13	2.16	0.46
2:J:929:MET:CE	2:J:934:VAL:HA	2.46	0.46
1:C:965:TYR:CE1	1:C:1669:PHE:CD1	3.04	0.46
1:D:746:PHE:CD2	3:D:1901:NAP:H4D	2.51	0.46
1:D:852:LEU:O	1:D:852:LEU:HD23	2.16	0.46
1:C:1565:PRO:HG3	1:C:1572:TRP:CH2	2.50	0.46
2:K:1053:ILE:CD1	2:K:1061:VAL:HG13	2.46	0.46
1:E:498:THR:HG22	1:E:508:TYR:HD1	1.81	0.46
2:J:460:ILE:CD1	2:J:487:ILE:HD11	2.45	0.46
2:K:207:LEU:HD22	2:K:309:LYS:HG3	1.98	0.46
2:H:676:LEU:C	2:H:676:LEU:HD13	2.36	0.46
2:J:347:PRO:HA	2:J:432:PHE:CE1	2.50	0.46
2:K:1872:GLU:HA	2:K:1872:GLU:OE1	2.13	0.46
2:G:792:LEU:HD23	2:G:1094:HIS:CE1	2.51	0.46
2:H:152:LYS:HA	2:H:153:PRO:HD3	1.81	0.46
2:G:1192:LEU:HD22	2:G:1196:PHE:CE1	2.51	0.46
2:H:1175:MET:O	2:H:1192:LEU:HD12	2.16	0.46
2:G:1204:VAL:HG22	2:G:1219:VAL:HG22	1.98	0.46
2:I:756:ASP:CA	2:I:843:TRP:HH2	2.28	0.46
2:L:200:LEU:H	2:L:200:LEU:HD23	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1086:ILE:O	2:I:1090:ILE:HG13	2.17	0.46
2:J:781:GLY:CA	2:J:1071:VAL:HG13	2.46	0.46
2:I:1948:MET:HG2	2:I:1993:PHE:CZ	2.50	0.46
1:A:544:ASP:O	1:A:548:VAL:HG23	2.15	0.46
1:A:1514:ILE:O	1:A:1547:ARG:NH1	2.49	0.46
1:A:1446:GLU:HA	1:A:1449:ALA:HB3	1.98	0.46
2:L:196:PHE:HD2	2:L:196:PHE:N	2.14	0.46
2:J:611:THR:HG21	2:J:817:MET:CE	2.46	0.46
2:H:1142:ILE:HG13	2:H:1209:PRO:HG2	1.97	0.46
1:F:1078:ILE:HA	1:F:1162:GLY:HA2	1.97	0.46
2:K:196:PHE:N	2:K:196:PHE:CD2	2.84	0.46
2:J:1248:GLU:OE2	2:J:1250:ARG:NE	2.45	0.46
1:C:687:PHE:HD2	1:C:687:PHE:C	2.19	0.46
2:L:1946:LEU:HD22	2:L:1951:ILE:HG12	1.97	0.46
2:L:1734:ILE:O	2:L:1738:VAL:HG23	2.15	0.46
1:A:540:LYS:HG3	1:A:608:LYS:N	2.31	0.46
2:H:545:ILE:HG22	2:H:555:LYS:HD3	1.98	0.46
2:G:1587:TYR:O	2:G:1588:ASN:C	2.55	0.46
2:L:141:TYR:OH	2:L:267:THR:HG23	2.16	0.46
1:B:662:ALA:HA	1:B:694:TYR:CZ	2.50	0.46
2:G:520:GLY:C	2:G:522:SER:H	2.19	0.46
2:G:1738:VAL:HA	2:G:1800:LEU:HD13	1.97	0.46
1:C:1691:ILE:HG22	1:C:1695:VAL:HG23	1.97	0.46
1:F:916:THR:HA	1:F:919:ARG:HB2	1.98	0.46
1:A:1184:ASP:OD1	1:A:1185:PRO:HD2	2.16	0.46
1:F:661:GLY:O	1:F:667:ALA:HB2	2.15	0.46
2:I:200:LEU:H	2:I:200:LEU:HD23	1.81	0.46
2:I:444:LEU:HD23	2:I:444:LEU:HA	1.76	0.46
2:G:1473:PHE:HE1	2:G:1513:VAL:HG21	1.81	0.46
2:I:1047:LEU:N	2:I:1047:LEU:HD12	2.30	0.45
2:J:856:THR:HG23	2:J:866:HIS:NE2	2.31	0.45
2:K:1346:MET:HG3	2:K:1380:TYR:CD1	2.51	0.45
2:I:1350:ILE:HD13	2:I:1610:MET:SD	2.56	0.45
1:F:612:ILE:HG22	1:F:628:TYR:CD2	2.52	0.45
1:A:965:TYR:CE1	1:A:1199:LEU:HD22	2.51	0.45
2:H:791:TYR:CD2	2:H:796:TRP:CG	3.04	0.45
2:L:791:TYR:CD2	2:L:796:TRP:CG	3.04	0.45
1:C:1218:VAL:HG13	1:C:1301:VAL:CG1	2.46	0.45
1:A:20:TYR:CE1	2:G:2018:ARG:NH2	2.84	0.45
2:G:459:LYS:HA	2:G:485:ASP:CG	2.36	0.45
1:D:1005:TRP:HE1	1:D:1561:LEU:HD22	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:743:TRP:CD1	2:J:761:ILE:HD11	2.51	0.45
2:H:2005:PHE:CA	2:H:2010:LEU:HD11	2.46	0.45
2:G:914:TRP:CD1	2:G:916:GLY:HA3	2.52	0.45
1:D:1037:ASN:CG	1:D:1674:ILE:HG23	2.37	0.45
2:H:48:LEU:HD11	2:H:101:VAL:HG11	1.97	0.45
2:H:1871:VAL:CG2	2:H:2004:PRO:HD3	2.46	0.45
2:G:870:THR:HG21	2:G:1064:THR:O	2.16	0.45
2:K:1770:ASN:HB2	2:K:1776:LYS:CE	2.43	0.45
2:G:48:LEU:HD11	2:G:101:VAL:HG11	1.97	0.45
1:F:1275:THR:HA	1:F:1276:PRO:HD3	1.59	0.45
1:B:962:ASN:HB3	2:H:969:ARG:CD	2.46	0.45
2:H:1551:ILE:HG22	2:H:1552:GLU:N	2.30	0.45
2:K:789:TYR:O	2:K:792:LEU:HB3	2.16	0.45
2:K:76:VAL:HG11	2:K:109:PHE:HD1	1.81	0.45
2:I:1192:LEU:HD22	2:I:1196:PHE:CE1	2.50	0.45
1:C:1160:VAL:HG11	1:C:1337:PRO:HB3	1.98	0.45
1:E:60:THR:HG23	2:K:1922:VAL:HG13	1.99	0.45
2:I:820:LYS:HB3	2:I:1080:ASP:O	2.15	0.45
1:C:569:LEU:HD13	1:D:548:VAL:HG23	1.98	0.45
2:J:1142:ILE:HG13	2:J:1209:PRO:HG2	1.98	0.45
2:L:1192:LEU:HD22	2:L:1196:PHE:CE1	2.51	0.45
1:E:1542:LEU:HD22	1:E:1547:ARG:HD3	1.97	0.45
1:F:415:TYR:CD2	1:F:1614:THR:HA	2.51	0.45
1:B:1083:PRO:HD2	1:B:1084:GLU:OE2	2.16	0.45
2:L:173:PHE:CE2	2:L:516:PHE:HB2	2.51	0.45
1:C:375:TRP:CD2	1:D:375:TRP:HB3	2.51	0.45
2:G:173:PHE:CE2	2:G:516:PHE:HB2	2.51	0.45
1:A:720:GLN:HG3	1:F:378:GLU:OE2	2.15	0.45
2:H:719:GLY:O	2:H:755:GLU:HG3	2.16	0.45
1:C:493:PRO:HD2	1:C:517:ARG:O	2.16	0.45
1:A:1473:HIS:CD2	1:E:1414:PRO:HD2	2.52	0.45
1:B:731:ASP:HB3	1:B:735:GLY:HA3	1.97	0.45
1:B:457:THR:HG22	1:B:464:GLN:HA	1.97	0.45
1:F:1592:ALA:O	1:F:1593:ASP:C	2.54	0.45
2:L:155:ASP:N	2:L:155:ASP:OD1	2.49	0.45
1:B:450:TYR:CD2	1:B:450:TYR:C	2.90	0.45
2:K:182:TYR:CD1	2:K:183:PHE:N	2.84	0.45
2:I:613:VAL:HG13	2:I:614:PRO:CD	2.47	0.45
2:I:854:VAL:HA	2:I:867:LYS:O	2.16	0.45
4:H:2101:FMN:N1	4:H:2101:FMN:O2'	2.44	0.45
2:J:609:THR:CB	2:J:610:PRO:HD3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:907:ASN:HA	2:L:913:VAL:HG13	1.97	0.45
2:K:1769:VAL:HG13	2:K:1774:SER:O	2.15	0.45
2:H:117:ASN:CA	2:H:561:ARG:HG3	2.34	0.45
2:J:174:GLY:H	2:J:517:GLY:CA	2.28	0.45
2:I:685:VAL:HG23	2:I:1186:ARG:NH1	2.31	0.45
2:K:394:PRO:HD2	2:K:397:SER:OG	2.16	0.45
2:K:290:VAL:HG11	2:K:315:LEU:CD1	2.46	0.45
1:A:962:ASN:HB3	2:G:969:ARG:CD	2.44	0.45
2:G:1602:LEU:HB3	2:G:1604:GLY:H	1.81	0.45
2:J:2063:GLY:O	2:J:2065:PRO:HD3	2.15	0.45
2:L:1410:GLY:HA2	2:L:1437:GLY:H	1.82	0.45
2:G:1404:VAL:O	2:G:1445:THR:HA	2.16	0.45
1:A:869:ARG:HE	1:A:869:ARG:HB2	1.58	0.45
1:F:740:LEU:HD12	1:F:781:ILE:HD13	1.98	0.45
2:J:1289:TYR:CB	2:J:1370:LEU:HD23	2.46	0.45
2:L:708:THR:HB	2:L:709:LEU:HD23	1.97	0.45
1:B:1004:PRO:HD3	1:B:1572:TRP:HH2	1.80	0.45
2:K:265:CYS:SG	2:K:275:LEU:HB2	2.57	0.45
1:E:974:ASP:O	1:E:979:PRO:HD3	2.16	0.45
1:E:17:LEU:HD23	2:K:2043:VAL:CG2	2.46	0.45
2:K:129:ILE:CG2	2:K:132:LYS:HD2	2.46	0.45
2:J:1000:TYR:HA	2:J:1001:PRO:HD2	1.74	0.45
2:K:621:THR:OG1	2:K:1083:ILE:HD13	2.16	0.45
1:B:1512:LEU:HD21	1:B:1641:TYR:CE2	2.51	0.45
2:K:76:VAL:O	2:K:80:ILE:HG13	2.16	0.45
1:C:746:PHE:CD1	1:C:800:PRO:HG3	2.51	0.45
2:K:894:GLU:CD	2:K:897:LYS:HD3	2.35	0.45
1:C:1338:GLY:C	1:C:1340:MET:H	2.19	0.45
1:C:1168:TRP:HE1	1:C:1173:TYR:HE1	1.64	0.45
1:B:565:GLN:HG2	1:B:565:GLN:O	2.15	0.45
2:K:350:MET:HG3	2:K:435:ILE:CB	2.45	0.45
2:L:57:PRO:HB2	2:L:65:GLN:HE22	1.81	0.45
1:A:846:TRP:HZ2	1:A:856:ASN:O	1.99	0.45
2:I:186:LEU:CG	2:I:256:VAL:HG22	2.45	0.45
1:D:1338:GLY:C	1:D:1340:MET:H	2.19	0.45
1:B:876:MET:HE3	1:B:876:MET:O	2.16	0.45
2:H:1948:MET:HG2	2:H:1993:PHE:CZ	2.52	0.45
2:H:2009:PHE:HD2	2:H:2009:PHE:O	1.99	0.45
1:C:1414:PRO:HG2	1:F:1473:HIS:NE2	2.31	0.45
1:B:1495:ARG:O	1:B:1496:ARG:HB3	2.15	0.45
1:E:1514:ILE:H	1:E:1514:ILE:HG13	1.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1981:GLU:O	2:I:1984:PRO:HG3	2.16	0.45
2:J:1969:LEU:HA	2:J:1972:ILE:CD1	2.46	0.45
2:J:113:PHE:N	2:J:113:PHE:CD1	2.84	0.45
1:A:1011:ARG:HD2	1:A:1011:ARG:O	2.16	0.45
2:J:123:ALA:O	2:J:126:VAL:HG23	2.17	0.45
2:G:1031:VAL:HA	2:G:1032:PRO:HD3	1.64	0.45
2:L:1977:ARG:HD3	2:L:1978:LYS:HG3	1.98	0.45
1:A:1175:VAL:HA	1:A:1176:PRO:HD3	1.83	0.45
2:H:1622:THR:HG23	2:H:1627:ASN:OD1	2.16	0.45
1:A:994:VAL:HG21	1:A:1291:TYR:CD1	2.51	0.45
1:C:914:LEU:CD1	1:C:918:LEU:HD12	2.47	0.45
2:H:1344:ALA:N	2:H:1389:LEU:O	2.42	0.45
1:C:1097:LEU:HD12	1:F:1241:LEU:HD23	1.98	0.45
2:L:223:LYS:HB3	2:L:242:TYR:CZ	2.51	0.45
2:H:1961:SER:O	2:H:1965:VAL:HG22	2.16	0.45
2:H:1969:LEU:HA	2:H:1972:ILE:HD12	1.99	0.45
2:K:865:ILE:HG22	2:K:867:LYS:HG3	1.98	0.45
2:K:929:MET:CE	2:K:934:VAL:HA	2.46	0.45
2:J:846:THR:HG22	2:J:855:ILE:C	2.36	0.45
2:L:1048:TRP:NE1	2:L:1049:GLN:HG2	2.30	0.45
2:H:929:MET:CE	2:H:934:VAL:HA	2.46	0.45
2:K:459:LYS:O	2:K:461:PRO:HD3	2.16	0.45
2:G:1180:VAL:CG1	2:G:1188:GLN:H	2.30	0.45
2:J:1881:TYR:CB	2:J:2004:PRO:HG3	2.47	0.45
1:C:1363:MET:HB2	1:C:1363:MET:HE2	1.79	0.45
2:H:747:ARG:HH11	2:H:780:SER:CB	2.25	0.45
2:H:1745:LEU:HD12	2:H:1746:THR:N	2.31	0.45
2:J:912:LYS:HG2	2:J:1029:PRO:C	2.37	0.45
2:I:1709:TYR:HE2	2:I:1716:LYS:HE2	1.81	0.45
1:C:1183:VAL:HG11	1:C:1187:THR:CG2	2.46	0.45
2:K:1871:VAL:CG2	2:K:2004:PRO:HD3	2.46	0.45
1:D:1275:THR:HA	1:D:1276:PRO:HD3	1.55	0.45
2:G:578:PRO:HG3	2:G:792:LEU:O	2.16	0.45
2:J:1311:GLY:HA3	2:J:1397:THR:HB	1.97	0.45
2:K:785:SER:HB3	2:K:1090:ILE:HG23	1.98	0.45
2:I:521:VAL:CG1	2:I:549:ASN:HB2	2.46	0.45
2:K:73:VAL:HA	2:K:113:PHE:CE2	2.52	0.45
2:G:76:VAL:HG11	2:G:109:PHE:CD1	2.50	0.45
2:G:894:GLU:CD	2:G:897:LYS:HD3	2.37	0.45
2:H:1000:TYR:HA	2:H:1001:PRO:HD2	1.72	0.45
2:I:821:GLU:CD	2:I:1083:ILE:HG13	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:202:THR:HA	2:G:228:LEU:HD11	1.98	0.45
1:B:626:TRP:CE3	1:B:898:PHE:HB2	2.51	0.45
2:H:204:ILE:CG2	2:H:312:VAL:HG11	2.45	0.45
2:L:541:LEU:HG	2:L:552:VAL:CG1	2.47	0.45
2:H:737:PHE:O	2:H:773:ASN:HB3	2.16	0.45
2:H:1910:VAL:CG1	2:H:1973:ILE:HG21	2.46	0.45
2:J:1910:VAL:CG1	2:J:1973:ILE:HG21	2.46	0.45
2:L:1017:LEU:O	2:L:1021:GLN:HG3	2.17	0.45
1:D:493:PRO:HD2	1:D:517:ARG:O	2.16	0.45
2:L:980:LEU:CD2	2:L:986:LEU:HD21	2.46	0.45
2:L:2009:PHE:HD2	2:L:2009:PHE:C	2.19	0.45
1:D:661:GLY:O	1:D:667:ALA:HB2	2.16	0.45
1:D:667:ALA:O	1:D:671:GLN:HG3	2.15	0.45
2:H:1977:ARG:HD3	2:H:1978:LYS:HG3	1.98	0.45
1:E:1011:ARG:NH1	1:E:1012:TRP:HA	2.32	0.45
1:C:1169:ASP:OD2	1:C:1171:ARG:HB2	2.17	0.45
1:D:23:ALA:HA	2:J:2007:SER:O	2.17	0.45
2:J:1656:VAL:O	2:J:1656:VAL:HG22	2.17	0.45
1:D:999:LEU:HA	1:D:999:LEU:HD23	1.75	0.45
2:I:846:THR:HG22	2:I:855:ILE:C	2.37	0.45
2:K:1047:LEU:N	2:K:1047:LEU:HD12	2.31	0.45
2:L:440:HIS:NE2	2:L:499:VAL:HG23	2.32	0.45
2:L:468:PRO:HA	2:L:479:ARG:HD3	1.99	0.45
1:E:613:PRO:C	1:E:615:LEU:N	2.69	0.45
1:C:881:LEU:HA	1:C:884:MET:CG	2.32	0.45
2:L:174:GLY:H	2:L:517:GLY:CA	2.29	0.45
2:H:928:ASP:C	2:H:1007:LEU:HD23	2.36	0.45
1:A:907:PHE:CE1	1:F:579:MET:HE1	2.51	0.45
1:E:833:TRP:HH2	1:E:839:ILE:HD11	1.81	0.45
2:H:685:VAL:HG13	2:H:686:PRO:HD2	1.98	0.45
2:J:1053:ILE:HD11	2:J:1061:VAL:HG13	1.99	0.45
2:L:857:VAL:HG13	2:L:876:TRP:CD1	2.50	0.45
2:K:1289:TYR:CB	2:K:1370:LEU:HD23	2.46	0.45
2:L:207:LEU:HD22	2:L:309:LYS:HG3	1.99	0.45
2:L:1709:TYR:HE2	2:L:1716:LYS:HE2	1.81	0.45
1:D:1708:ASN:HD21	1:D:1712:LYS:NZ	2.15	0.45
2:I:2021:LEU:HD22	2:I:2025:ILE:HD11	1.98	0.45
1:B:759:ILE:HD12	1:B:759:ILE:N	2.31	0.45
1:E:472:GLN:HE21	1:E:472:GLN:HA	1.81	0.45
2:H:44:GLN:HG3	2:H:101:VAL:CG2	2.46	0.45
2:G:676:LEU:C	2:G:676:LEU:HD13	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:747:ARG:NH1	2:G:780:SER:O	2.49	0.45
2:J:270:ARG:HG3	2:J:274:GLU:CD	2.36	0.45
2:H:894:GLU:CD	2:H:897:LYS:HD3	2.36	0.45
2:H:882:LYS:HD3	2:H:898:ARG:CZ	2.47	0.45
2:K:1324:PHE:CA	2:K:1583:VAL:HG11	2.47	0.45
1:C:655:ALA:CB	1:C:742:TYR:HB2	2.46	0.45
1:E:853:MET:HG2	1:E:856:ASN:ND2	2.29	0.45
2:J:1551:ILE:HG22	2:J:1552:GLU:N	2.31	0.45
2:G:76:VAL:O	2:G:80:ILE:HG13	2.16	0.45
2:L:746:GLY:O	2:L:843:TRP:NE1	2.49	0.45
2:J:534:GLY:O	2:J:571:ASP:HA	2.17	0.45
2:I:699:ILE:H	2:I:699:ILE:CD1	2.26	0.45
1:E:893:GLN:OE1	2:H:1751:GLY:HA2	2.16	0.45
2:J:204:ILE:CG2	2:J:312:VAL:HG11	2.46	0.45
1:F:88:ILE:HG21	2:L:1821:MET:HE2	1.98	0.45
1:C:414:TYR:CE2	1:C:418:ILE:CD1	2.99	0.45
2:G:204:ILE:HG21	2:G:312:VAL:HG21	1.98	0.45
2:L:1293:TRP:HE1	2:L:1586:ASP:HA	1.81	0.45
2:I:617:PHE:HE1	2:I:819:ALA:HB3	1.82	0.45
1:C:914:LEU:HD11	1:C:918:LEU:CD1	2.46	0.45
2:G:1644:LEU:HB3	2:G:1645:PRO:CD	2.46	0.45
2:J:1894:THR:HB	2:J:1954:GLN:OE1	2.16	0.45
2:H:73:VAL:HA	2:H:113:PHE:CE2	2.52	0.45
1:A:46:GLU:HB3	1:A:80:CYS:HA	1.99	0.45
1:C:1084:GLU:H	1:C:1084:GLU:CD	2.19	0.45
1:F:1031:MET:HB3	1:F:1031:MET:HE2	1.74	0.45
1:F:334:ALA:O	1:F:338:GLN:HG3	2.16	0.45
2:G:1883:MET:HB2	2:G:2001:ILE:HD12	1.99	0.45
2:G:883:ILE:HG22	2:G:884:PHE:N	2.30	0.45
2:G:856:THR:HG23	2:G:866:HIS:NE2	2.32	0.45
4:J:2101:FMN:N1	4:J:2101:FMN:O2'	2.44	0.45
2:L:930:THR:O	2:L:934:VAL:HG23	2.16	0.45
2:L:942:MET:O	2:L:951:ILE:HG13	2.16	0.45
1:A:1150:ILE:HG12	1:E:1148:LEU:HD21	1.98	0.45
2:K:1635:TYR:CE2	2:K:1637:VAL:HG23	2.52	0.45
2:J:501:TRP:NE1	2:J:528:THR:CG2	2.73	0.45
2:G:685:VAL:CG1	2:G:687:ILE:HG13	2.41	0.45
2:J:1346:MET:CE	2:J:1617:ARG:HH21	2.30	0.45
1:B:40:ARG:NH2	1:B:72:THR:CG2	2.80	0.45
2:H:43:PHE:CZ	2:I:42:HIS:CE1	3.05	0.45
2:G:1053:ILE:CD1	2:G:1061:VAL:HG13	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:498:THR:CG2	1:D:858:LEU:HA	2.41	0.45
2:J:315:LEU:HA	2:J:318:ILE:HD12	1.97	0.45
2:I:290:VAL:CG1	2:I:314:LEU:HD23	2.46	0.45
2:H:1903:VAL:HG11	2:H:1943:LEU:HD21	1.99	0.45
1:F:767:HIS:NE2	1:F:771:LEU:HD22	2.32	0.45
1:A:11:TYR:CD1	2:G:2027:LYS:HG2	2.50	0.45
2:K:2017:PHE:CE2	2:K:2021:LEU:HD11	2.52	0.45
2:H:76:VAL:HG11	2:H:109:PHE:CD1	2.51	0.45
2:L:1802:ALA:CB	2:L:1804:GLN:HE22	2.27	0.45
2:L:153:PRO:HB3	2:L:270:ARG:NH1	2.31	0.45
2:K:790:PRO:HA	2:K:795:SER:OG	2.17	0.45
1:E:421:ARG:NH2	1:E:1613:LYS:CG	2.79	0.45
2:G:76:VAL:HG11	2:G:109:PHE:HD1	1.82	0.45
1:E:744:VAL:HG12	1:E:746:PHE:CD1	2.52	0.45
1:A:636:TYR:CE1	1:A:883:LEU:HD23	2.51	0.45
2:L:381:SER:OG	2:L:392:THR:HG23	2.17	0.45
2:H:202:THR:O	2:H:206:GLU:HG3	2.16	0.45
2:G:57:PRO:HB2	2:G:65:GLN:HE22	1.81	0.45
1:B:1337:PRO:HA	1:B:1340:MET:CG	2.46	0.45
2:H:1521:GLU:OE2	2:H:2028:THR:HG21	2.17	0.45
2:G:915:PHE:O	2:G:915:PHE:CD2	2.69	0.45
2:L:1234:ILE:HG22	2:L:1242:ILE:HG22	1.98	0.45
2:I:1749:PHE:CD2	2:I:1758:ARG:HB3	2.51	0.45
2:G:1655:HIS:HE1	2:G:1657:GLY:O	1.99	0.45
2:K:1655:HIS:HE1	2:K:1657:GLY:O	1.99	0.45
1:B:329:THR:O	1:B:332:GLN:HB2	2.16	0.45
2:L:1161:MET:HE1	2:L:1193:LYS:HG2	1.99	0.45
1:C:1335:ARG:HH11	1:C:1339:GLU:HG2	1.81	0.45
2:I:342:ASN:HB3	2:I:406:ARG:HD3	1.99	0.45
2:H:31:LEU:HB2	2:H:72:VAL:HG22	1.98	0.45
2:K:1473:PHE:HE1	2:K:1513:VAL:HG21	1.81	0.45
2:I:585:VAL:O	2:I:585:VAL:HG12	2.17	0.45
2:L:988:GLU:HA	2:L:989:PRO:HD3	1.74	0.45
2:G:1894:THR:HB	2:G:1954:GLN:OE1	2.16	0.45
1:C:963:LEU:HD23	1:C:1023:GLU:HB3	1.98	0.45
1:C:1463:GLU:O	1:C:1467:LEU:HB2	2.16	0.45
1:B:492:ILE:HG13	1:B:492:ILE:H	1.50	0.45
2:L:462:ALA:HB3	2:L:483:ASP:HA	1.98	0.45
2:H:1194:ARG:NH2	2:H:1601:ASN:HA	2.32	0.45
2:J:613:VAL:N	2:J:614:PRO:HD3	2.32	0.45
2:L:917:ARG:NH1	2:L:917:ARG:CG	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:917:ARG:HB2	2:I:937:ARG:HD3	1.98	0.45
1:A:997:THR:HG23	1:A:1361:VAL:HG22	1.98	0.45
2:L:1635:TYR:CE2	2:L:1637:VAL:HG23	2.52	0.45
2:I:501:TRP:CZ2	2:I:528:THR:CG2	2.99	0.45
2:K:1009:ASN:HA	2:K:1009:ASN:HD22	1.56	0.45
2:J:928:ASP:C	2:J:1007:LEU:HD23	2.37	0.45
2:G:472:THR:HB	2:G:493:MET:HB3	1.99	0.45
2:J:1903:VAL:HG11	2:J:1943:LEU:HD21	1.99	0.45
2:I:490:LEU:HA	2:I:493:MET:SD	2.56	0.45
2:J:788:THR:CG2	2:J:1094:HIS:CE1	2.99	0.45
2:G:1764:MET:HG3	2:G:1781:PHE:HE1	1.81	0.45
2:L:1884:CYS:HB3	2:L:1936:LEU:CD1	2.42	0.45
1:C:41:THR:HA	2:I:1689:VAL:HB	1.98	0.45
1:D:1055:THR:OG1	1:D:1057:GLU:HG2	2.17	0.45
1:F:1161:ALA:O	1:F:1163:GLN:HG3	2.17	0.45
1:C:1186:VAL:HG12	1:C:1187:THR:N	2.31	0.45
2:J:1175:MET:HE1	2:J:1234:ILE:HG21	1.98	0.45
2:G:1114:GLU:HB3	2:G:1169:TYR:CB	2.44	0.45
2:I:664:TYR:C	2:I:666:ASN:H	2.20	0.45
1:A:620:LYS:HE3	1:A:626:TRP:CZ2	2.52	0.45
2:G:1311:GLY:HA3	2:G:1397:THR:HB	1.99	0.45
2:I:1517:LEU:CD2	2:I:1523:ILE:HD11	2.46	0.45
1:A:1514:ILE:H	1:A:1514:ILE:HG13	1.36	0.45
1:B:1338:GLY:C	1:B:1340:MET:H	2.19	0.45
2:H:352:SER:HB2	2:H:433:LEU:HD11	1.99	0.45
2:H:1538:ASN:HB3	2:H:1541:ILE:CG2	2.47	0.45
1:D:79:LEU:HD12	1:D:88:ILE:HD13	1.99	0.45
1:F:421:ARG:NH2	1:F:1613:LYS:HB3	2.31	0.45
2:I:541:LEU:HG	2:I:552:VAL:CG1	2.47	0.45
1:C:17:LEU:HD23	2:I:2043:VAL:CG2	2.46	0.45
2:L:1945:ILE:HG22	2:L:1946:LEU:N	2.32	0.45
2:J:594:MET:SD	2:J:809:GLY:HA3	2.57	0.45
2:H:529:ASN:HD22	2:H:552:VAL:HG23	1.82	0.45
1:B:960:ARG:HH12	2:H:968:GLU:CD	2.19	0.45
1:A:1473:HIS:NE2	1:E:1414:PRO:HG2	2.31	0.45
2:H:155:ASP:HB3	2:H:278:ARG:NH1	2.32	0.45
2:I:1887:ASN:OD1	2:I:1889:SER:HB2	2.15	0.45
2:G:1905:GLU:O	2:G:1908:ALA:HB3	2.16	0.45
1:A:857:ASN:HA	1:A:860:ALA:HB2	1.98	0.45
2:I:246:ALA:N	2:I:247:PRO:HD2	2.32	0.45
1:B:1177:GLU:O	1:B:1180:ILE:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2008:THR:HG22	2:H:2011:ARG:HE	1.82	0.45
2:J:1269:ALA:HB1	2:J:1271:TYR:CE1	2.51	0.45
2:H:1384:PRO:HB3	2:H:1829:ARG:NH1	2.32	0.45
2:I:728:ILE:HG22	2:I:732:LYS:HE3	1.97	0.45
1:A:1050:TRP:CE3	1:A:1050:TRP:HA	2.52	0.45
2:K:200:LEU:H	2:K:200:LEU:HD23	1.82	0.45
1:C:857:ASN:HA	1:C:860:ALA:HB2	1.98	0.45
1:B:1463:GLU:O	1:B:1467:LEU:HB2	2.16	0.45
1:C:1278:GLY:CA	1:C:1630:LYS:HE2	2.41	0.45
1:B:427:ARG:HH12	1:B:492:ILE:CG2	2.07	0.45
2:I:856:THR:HG23	2:I:866:HIS:NE2	2.31	0.45
2:H:613:VAL:N	2:H:614:PRO:HD3	2.32	0.45
2:G:1194:ARG:CG	2:G:1194:ARG:NH1	2.51	0.45
1:D:526:MET:CE	1:D:615:LEU:HG	2.47	0.45
1:A:1491:ASN:ND2	1:A:1491:ASN:N	2.65	0.45
1:A:570:TYR:CD2	1:A:574:ILE:HD11	2.49	0.45
1:A:833:TRP:HH2	1:A:839:ILE:HD11	1.81	0.45
2:K:931:TYR:CZ	2:K:1008:ILE:HA	2.52	0.45
2:K:276:LEU:O	2:K:467:ILE:CD1	2.64	0.45
2:K:472:THR:HB	2:K:493:MET:HB3	1.99	0.45
2:I:1293:TRP:HZ3	2:I:1370:LEU:HD21	1.81	0.45
1:B:40:ARG:HH21	1:B:74:VAL:HG22	1.81	0.45
1:D:746:PHE:CG	3:D:1901:NAP:H4D	2.51	0.45
2:I:2058:VAL:O	2:I:2062:THR:HB	2.17	0.45
1:E:741:ASP:CG	1:E:793:ARG:HH11	2.19	0.45
1:A:498:THR:HG22	1:A:508:TYR:HD1	1.79	0.45
2:G:250:PHE:O	2:G:315:LEU:HD23	2.17	0.45
2:G:459:LYS:O	2:G:461:PRO:HD3	2.16	0.45
2:J:310:ARG:HH12	2:J:459:LYS:H	1.65	0.45
1:B:1562:THR:HB	1:B:1572:TRP:CZ3	2.52	0.45
1:A:22:PHE:HE2	2:G:2017:PHE:CB	2.29	0.45
2:H:1985:GLN:C	2:H:1987:VAL:N	2.67	0.45
1:A:549:TYR:O	1:A:553:ARG:HB3	2.17	0.45
1:A:553:ARG:NH2	1:A:567:ASN:HD21	2.15	0.45
2:K:193:TYR:HD1	2:K:263:ILE:HD13	1.79	0.45
1:D:30:GLU:CB	2:J:2045:ALA:HB1	2.41	0.45
2:G:1361:ILE:HG22	2:G:1435:TYR:OH	2.17	0.45
2:H:1350:ILE:HG22	2:H:1429:VAL:HG11	1.97	0.45
2:J:358:ARG:HB2	2:J:389:PHE:CE2	2.51	0.45
2:G:48:LEU:HB2	2:G:79:TYR:OH	2.17	0.45
2:H:22:ARG:HD2	2:H:42:HIS:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:24:LEU:CD1	2:H:37:VAL:HG21	2.45	0.45
2:K:129:ILE:HG21	2:K:132:LYS:HD2	1.98	0.45
1:B:1484:GLU:O	1:B:1487:THR:HB	2.17	0.45
2:H:1351:VAL:CG1	2:H:1352:VAL:N	2.79	0.45
2:L:45:ALA:HB2	2:L:101:VAL:HG22	1.99	0.45
1:C:898:PHE:HD2	1:C:899:ALA:N	2.15	0.45
1:E:330:LYS:HG3	1:E:333:ARG:HH12	1.79	0.45
2:H:781:GLY:CA	2:H:1071:VAL:HG13	2.46	0.45
1:E:852:LEU:HD23	1:E:852:LEU:O	2.17	0.45
2:I:785:SER:HB3	2:I:1090:ILE:HG23	1.99	0.45
2:G:186:LEU:HD21	2:G:256:VAL:HG22	1.97	0.45
1:B:1129:ILE:HA	1:B:1139:THR:O	2.16	0.45
2:G:202:THR:O	2:G:206:GLU:HG3	2.16	0.45
2:G:1538:ASN:HB3	2:G:1541:ILE:CG2	2.46	0.45
2:I:871:ARG:HB2	2:I:909:ASP:HB2	1.98	0.45
2:G:871:ARG:HB2	2:G:909:ASP:HB2	1.98	0.45
2:L:906:LEU:HD22	2:L:906:LEU:HA	1.81	0.45
2:H:2009:PHE:HD2	2:H:2009:PHE:C	2.19	0.45
2:G:616:ASP:OD2	2:G:823:HIS:CE1	2.70	0.45
1:C:1473:HIS:NE2	1:F:1414:PRO:HG2	2.32	0.45
1:C:79:LEU:HD12	1:C:88:ILE:HD13	1.98	0.45
1:B:79:LEU:HD12	1:B:88:ILE:HD13	1.99	0.45
2:G:690:LEU:HB2	2:G:711:ILE:HG21	1.99	0.45
2:H:797:SER:O	2:H:802:TYR:HB2	2.16	0.45
2:H:907:ASN:HA	2:H:913:VAL:HG13	1.99	0.45
2:K:1017:LEU:O	2:K:1021:GLN:HG3	2.16	0.45
2:G:1969:LEU:HA	2:G:1972:ILE:CD1	2.47	0.45
2:L:1472:TRP:CD2	2:L:1540:VAL:HG22	2.52	0.45
1:F:28:TRP:HE1	1:F:32:GLN:NE2	2.14	0.45
1:A:1496:ARG:NH2	1:E:1297:GLY:HA2	2.32	0.45
1:A:1170:ALA:HB3	1:A:1188:LEU:HD13	1.98	0.45
1:A:1169:ASP:OD2	1:A:1171:ARG:HB2	2.17	0.45
2:G:1820:ASP:O	2:G:1823:SER:HB3	2.17	0.45
1:B:1440:TYR:O	1:B:1444:GLN:HB2	2.16	0.45
2:G:1002:GLU:C	2:G:1004:SER:H	2.19	0.45
2:H:1835:GLY:HA3	2:H:1839:GLY:C	2.37	0.45
1:B:1652:GLU:O	1:B:1656:VAL:HG23	2.16	0.45
1:A:506:ILE:HD13	1:A:922:ILE:HG22	1.99	0.45
2:I:1195:LEU:CD2	2:I:1595:VAL:HG12	2.47	0.45
2:I:608:MET:HA	4:I:2101:FMN:C5A	2.46	0.45
2:L:382:LEU:HG	2:L:390:VAL:HB	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:382:LEU:HG	2:H:390:VAL:HB	1.98	0.45
2:H:489:GLU:O	2:H:492:ARG:HG2	2.17	0.45
1:D:1102:ILE:HD13	1:D:1106:LEU:CD2	2.47	0.45
2:J:2052:LYS:H	2:J:2052:LYS:HG2	1.44	0.45
2:H:595:SER:HB3	2:H:602:PRO:HD3	1.99	0.45
2:H:626:TYR:OH	2:H:1088:ASP:HA	2.17	0.45
2:K:481:LEU:C	2:K:483:ASP:H	2.19	0.45
2:I:1361:ILE:HG22	2:I:1435:TYR:OH	2.17	0.45
2:I:931:TYR:CZ	2:I:1008:ILE:HA	2.52	0.45
2:L:762:LEU:HD23	2:L:805:MET:HE1	1.99	0.45
1:B:40:ARG:HH21	1:B:72:THR:CG2	2.30	0.45
2:I:76:VAL:HG11	2:I:109:PHE:HD1	1.81	0.45
1:B:440:SER:HB3	1:B:481:LEU:CD2	2.39	0.45
2:J:1289:TYR:CD2	2:J:1370:LEU:HD23	2.51	0.45
2:H:207:LEU:HD22	2:H:309:LYS:HG3	1.99	0.45
2:G:1709:TYR:CE2	2:G:1716:LYS:HG2	2.52	0.45
2:I:1721:ARG:NH1	2:I:1854:GLU:OE2	2.49	0.45
2:I:1985:GLN:C	2:I:1987:VAL:N	2.69	0.45
2:I:117:ASN:OD1	2:I:561:ARG:HB2	2.16	0.45
2:L:718:PRO:HG2	2:L:741:LEU:HD11	1.98	0.45
1:A:448:MET:HA	1:A:448:MET:HE3	1.99	0.45
2:G:330:SER:H	2:H:1331:THR:HG22	1.82	0.45
1:F:962:ASN:HD22	2:L:1006:GLN:NE2	2.11	0.45
1:B:859:VAL:HG12	1:B:859:VAL:O	2.16	0.45
2:G:1175:MET:CE	2:G:1234:ILE:HG21	2.47	0.45
2:G:391:VAL:HG12	2:G:398:LEU:HD21	1.99	0.45
2:L:1229:VAL:CG1	2:L:1230:LYS:N	2.79	0.45
2:L:193:TYR:HD1	2:L:263:ILE:HD13	1.78	0.45
2:G:1515:LEU:CB	2:G:1525:VAL:HG21	2.47	0.45
2:L:1517:LEU:CD2	2:L:1523:ILE:HD11	2.47	0.45
2:J:1019:LEU:HA	2:J:1022:ARG:HD2	1.97	0.45
2:K:1192:LEU:HD22	2:K:1196:PHE:CE1	2.50	0.45
2:G:1881:TYR:CZ	2:G:2009:PHE:HE1	2.35	0.45
2:I:372:LEU:CD1	2:I:397:SER:HB2	2.47	0.45
1:F:79:LEU:HD12	1:F:88:ILE:HD13	1.99	0.45
2:K:327:PRO:CD	2:L:1338:ARG:HH21	2.28	0.45
1:A:576:ALA:HB3	1:F:541:VAL:HG22	1.99	0.45
1:A:827:ARG:NH1	1:A:831:GLU:OE2	2.50	0.45
1:E:1171:ARG:HD3	1:E:1177:GLU:OE1	2.17	0.45
1:D:1495:ARG:O	1:D:1496:ARG:HB3	2.16	0.45
2:I:617:PHE:CD1	2:I:822:ALA:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:155:ASP:OD1	2:H:155:ASP:N	2.49	0.45
1:D:413:MET:O	1:D:416:ASP:HB2	2.17	0.45
1:A:2:ARG:HB2	1:A:5:VAL:HB	1.98	0.45
2:G:60:THR:HG22	2:G:62:GLU:H	1.81	0.45
2:I:1656:VAL:O	2:I:1656:VAL:HG22	2.17	0.45
1:A:1507:LEU:HA	1:A:1507:LEU:HD23	1.84	0.45
2:L:444:LEU:HD23	2:L:444:LEU:HA	1.73	0.45
1:E:844:ILE:N	1:E:844:ILE:HD12	2.32	0.45
1:A:1696:PHE:HB3	1:E:1402:THR:HG22	1.99	0.45
1:B:1121:ARG:NH1	1:D:1153:ALA:O	2.49	0.45
2:G:1238:GLY:O	2:G:1239:ASP:HB2	2.17	0.45
1:E:1219:GLY:HA2	1:E:1272:PRO:HD2	1.98	0.45
1:D:1330:GLU:HG2	1:D:1333:ARG:HH11	1.81	0.45
2:I:1194:ARG:CG	2:I:1194:ARG:NH1	2.55	0.45
2:G:938:MET:O	2:G:942:MET:HG3	2.17	0.45
1:A:539:THR:HA	1:A:542:GLN:HE21	1.82	0.45
1:A:1199:LEU:HD23	1:A:1199:LEU:O	2.17	0.45
2:I:448:HIS:CD2	2:I:491:VAL:CG1	2.98	0.45
1:C:1562:THR:HB	1:C:1572:TRP:CZ3	2.52	0.45
1:B:1154:LEU:HD21	1:D:1118:GLU:OE2	2.17	0.45
1:F:1565:PRO:O	1:F:1566:LYS:C	2.55	0.45
1:C:1584:GLY:HA2	1:C:1617:ILE:HD12	1.99	0.45
2:I:251:PRO:CG	2:I:316:PHE:HA	2.44	0.45
1:D:1199:LEU:O	1:D:1199:LEU:HD23	2.17	0.45
2:J:785:SER:O	2:J:789:TYR:HB2	2.17	0.45
2:J:376:ARG:NH2	2:K:1340:LYS:HG3	2.32	0.45
2:G:1231:THR:HG23	2:G:1595:VAL:CG2	2.41	0.45
2:I:604:MET:CE	2:I:811:MET:HB2	2.46	0.45
2:I:747:ARG:NH1	2:I:780:SER:O	2.50	0.45
1:E:452:ILE:CD1	1:E:467:LYS:HA	2.47	0.45
2:G:1985:GLN:C	2:G:1987:VAL:N	2.67	0.45
2:G:914:TRP:CZ3	2:G:1033:ALA:HA	2.51	0.45
1:D:1426:GLU:HA	1:D:1429:ARG:HB2	1.98	0.45
2:L:44:GLN:O	2:L:48:LEU:HG	2.17	0.45
2:I:44:GLN:O	2:I:48:LEU:HG	2.16	0.45
1:C:443:LEU:HD12	1:C:443:LEU:H	1.82	0.45
2:K:1203:TYR:O	2:K:1219:VAL:HA	2.16	0.45
1:B:543:ASN:O	1:B:546:ARG:HB2	2.17	0.45
2:K:1342:PHE:HE2	2:K:1391:VAL:HB	1.82	0.45
2:L:962:PHE:O	2:L:965:ARG:HB3	2.16	0.45
2:K:1722:ALA:HB1	2:K:1812:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1078:ILE:HA	1:D:1162:GLY:HA2	1.98	0.45
2:J:617:PHE:CD1	2:J:822:ALA:CA	3.00	0.45
1:E:1495:ARG:O	1:E:1496:ARG:HB3	2.16	0.45
1:F:1419:LYS:O	1:F:1422:ARG:HB2	2.17	0.45
1:B:679:LYS:HG2	1:B:708:GLN:CB	2.47	0.45
2:G:196:PHE:HD2	2:G:196:PHE:N	2.14	0.45
2:L:1384:PRO:HB3	2:L:1829:ARG:HH12	1.82	0.45
2:G:617:PHE:CD1	2:G:822:ALA:HA	2.51	0.45
2:J:541:LEU:HG	2:J:552:VAL:HG11	1.98	0.45
2:H:541:LEU:HG	2:H:552:VAL:CG1	2.47	0.45
1:E:1022:LEU:HD13	1:E:1022:LEU:O	2.17	0.45
1:F:1265:LEU:O	1:F:1266:LEU:HD23	2.17	0.45
2:I:52:PHE:HB2	2:I:82:PHE:CE2	2.51	0.45
1:E:1395:ALA:HA	1:E:1396:PRO:HD3	1.81	0.45
2:H:248:VAL:O	2:H:252:LEU:HB2	2.17	0.45
2:J:226:ASP:OD2	2:J:229:GLN:HB2	2.17	0.45
2:G:1835:GLY:HA3	2:G:1839:GLY:C	2.37	0.45
2:I:594:MET:HB3	2:I:808:ASP:O	2.16	0.45
2:I:716:PHE:CD1	2:I:727:VAL:HG13	2.52	0.45
2:L:318:ILE:HA	2:L:451:ILE:HD13	1.99	0.45
2:L:276:LEU:O	2:L:467:ILE:CD1	2.65	0.45
2:H:468:PRO:HA	2:H:479:ARG:HD3	1.99	0.45
2:H:460:ILE:O	2:H:486:ILE:N	2.49	0.45
1:E:1491:ASN:H	1:E:1491:ASN:ND2	2.15	0.45
2:G:937:ARG:CZ	2:G:941:LEU:HD11	2.47	0.45
2:G:955:LEU:HD21	2:G:1026:LYS:O	2.17	0.45
1:A:532:ILE:HG21	1:A:907:PHE:CB	2.44	0.45
2:K:311:ALA:O	2:K:314:LEU:HB3	2.17	0.45
2:G:501:TRP:NE1	2:G:528:THR:CG2	2.76	0.45
2:L:818:THR:HA	2:L:829:LYS:HE2	1.98	0.45
2:L:870:THR:HG21	2:L:1064:THR:O	2.16	0.45
1:B:20:TYR:CZ	2:H:2062:THR:HG23	2.52	0.45
2:H:2063:GLY:O	2:H:2065:PRO:HD3	2.16	0.45
1:D:605:ARG:HB3	1:D:606:PRO:HD2	1.96	0.45
2:J:1404:VAL:HA	2:J:1412:MET:O	2.17	0.45
2:J:2064:SER:OG	2:J:2067:ILE:HB	2.17	0.45
2:L:1602:LEU:HB3	2:L:1604:GLY:H	1.82	0.45
2:I:914:TRP:CZ3	2:I:1033:ALA:HA	2.52	0.45
2:G:290:VAL:HG11	2:G:315:LEU:CD1	2.47	0.45
2:G:1499:LYS:CG	2:G:1500:ASN:N	2.79	0.45
1:B:1686:PRO:HB2	1:B:1713:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:376:ARG:NH2	2:I:1340:LYS:HE3	2.27	0.45
2:I:1044:LYS:HE2	3:I:2102:NAP:H4B	1.99	0.45
2:H:718:PRO:HG2	2:H:741:LEU:CD1	2.47	0.45
2:J:129:ILE:CG2	2:J:132:LYS:HD2	2.47	0.45
2:K:57:PRO:HB2	2:K:65:GLN:HE22	1.81	0.45
2:I:399:TYR:CE2	2:I:403:LEU:HD11	2.52	0.45
1:C:1160:VAL:HB	1:C:1352:MET:HE1	1.99	0.45
2:I:655:GLY:HA3	2:I:1272:ALA:HB2	1.98	0.45
1:F:716:GLN:NE2	1:F:747:ALA:HB3	2.32	0.45
2:G:1496:VAL:HG21	2:G:1504:TYR:CD2	2.52	0.45
2:H:202:THR:HA	2:H:228:LEU:HD11	1.98	0.45
1:F:1306:GLY:O	1:F:1357:CYS:HB2	2.17	0.45
1:D:1129:ILE:HA	1:D:1139:THR:O	2.16	0.45
2:G:776:LEU:HG	2:G:807:PHE:CD2	2.52	0.45
2:I:1317:ASN:HB3	2:I:1320:ALA:CB	2.47	0.45
2:G:1910:VAL:CG1	2:G:1973:ILE:HG21	2.47	0.45
1:B:1296:GLN:HG2	1:D:1296:GLN:HE21	1.82	0.45
2:H:1057:TYR:C	2:H:1059:GLN:H	2.20	0.45
2:K:560:ASP:HB3	2:K:565:ALA:HB1	1.99	0.45
2:J:31:LEU:HB2	2:J:72:VAL:HG22	1.99	0.45
2:J:31:LEU:HD13	2:J:75:LEU:HG	1.99	0.45
1:A:21:GLN:HB3	1:A:21:GLN:HE21	1.57	0.45
1:B:661:GLY:O	1:B:667:ALA:HB2	2.16	0.45
2:G:1286:LYS:NZ	2:G:1367:ASP:HA	2.32	0.45
2:I:1510:ILE:HA	2:I:1528:VAL:O	2.17	0.45
2:H:329:THR:HA	2:I:1331:THR:HG22	1.98	0.45
1:F:50:SER:HB2	1:F:52:THR:HG23	1.99	0.45
2:K:1634:SER:HB3	2:K:1684:GLU:HB2	1.98	0.45
1:B:455:CYS:HA	1:B:456:PRO:HD3	1.83	0.45
1:A:1654:TYR:CZ	1:A:1658:VAL:HG21	2.52	0.45
2:G:1179:GLU:OE1	2:G:1179:GLU:N	2.49	0.45
1:B:835:ASN:N	1:B:835:ASN:OD1	2.50	0.45
2:K:187:ARG:HH22	2:K:234:PRO:HA	1.82	0.45
1:B:1011:ARG:HH11	1:B:1012:TRP:HA	1.82	0.45
1:E:1463:GLU:O	1:E:1467:LEU:HB2	2.17	0.44
2:H:1067:LEU:O	2:H:1068:GLN:HG2	2.17	0.44
2:K:608:MET:HB3	2:K:608:MET:HE2	1.63	0.44
1:C:1542:LEU:HD22	1:C:1547:ARG:HD3	1.99	0.44
2:L:472:THR:HB	2:L:493:MET:HB3	1.99	0.44
1:B:558:LEU:HD11	1:E:558:LEU:HD21	1.98	0.44
2:L:609:THR:CB	2:L:610:PRO:HD3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:511:THR:C	2:J:512:HIS:CD2	2.91	0.44
2:J:749:GLY:HA3	4:J:2101:FMN:HM81	1.99	0.44
4:G:2101:FMN:O2'	4:G:2101:FMN:N1	2.47	0.44
2:H:601:PRO:HB2	2:H:626:TYR:CE2	2.52	0.44
1:D:409:ASP:HB2	1:D:439:ARG:HH12	1.82	0.44
1:B:575:ARG:HG2	1:B:579:MET:SD	2.57	0.44
1:E:612:ILE:HA	1:E:613:PRO:HD3	1.57	0.44
1:D:998:GLY:CA	1:D:1361:VAL:HG13	2.31	0.44
2:K:174:GLY:HA2	2:K:524:ILE:CG1	2.47	0.44
2:J:917:ARG:HB2	2:J:937:ARG:HD3	1.99	0.44
2:K:582:LYS:HA	2:K:587:GLN:O	2.17	0.44
2:J:942:MET:HE2	2:J:955:LEU:HD13	1.97	0.44
2:I:1635:TYR:CE2	2:I:1637:VAL:HG23	2.53	0.44
2:H:1635:TYR:CE2	2:H:1637:VAL:HG23	2.52	0.44
2:L:2044:THR:HG21	2:L:2054:TYR:CZ	2.52	0.44
1:F:487:TYR:CE2	1:F:881:LEU:HD13	2.52	0.44
2:H:2044:THR:HG21	2:H:2054:TYR:CZ	2.51	0.44
1:A:1280:CYS:HA	1:A:1566:LYS:O	2.17	0.44
2:G:460:ILE:O	2:G:486:ILE:N	2.50	0.44
2:J:459:LYS:HA	2:J:485:ASP:CG	2.37	0.44
1:B:1617:ILE:N	1:B:1617:ILE:CD1	2.77	0.44
2:J:815:ARG:NH2	2:J:1086:ILE:CG2	2.80	0.44
2:I:1764:MET:HB3	2:I:1780:ILE:CG1	2.47	0.44
2:H:571:ASP:OD2	2:H:573:VAL:HB	2.17	0.44
2:H:571:ASP:CG	2:H:573:VAL:HG23	2.38	0.44
1:A:1426:GLU:HA	1:A:1429:ARG:HB2	1.98	0.44
1:F:23:ALA:HB2	2:L:2010:LEU:HB2	1.99	0.44
2:I:1903:VAL:HG13	2:I:1942:VAL:HG11	1.99	0.44
2:I:2017:PHE:CE2	2:I:2021:LEU:HD11	2.53	0.44
1:E:392:ASP:HA	1:E:393:PRO:HD2	1.73	0.44
1:B:570:TYR:O	1:B:574:ILE:HG12	2.17	0.44
2:I:1352:VAL:HG11	2:I:1395:LEU:HD12	1.98	0.44
2:G:1086:ILE:O	2:G:1090:ILE:HG13	2.16	0.44
2:L:1083:ILE:H	2:L:1083:ILE:HG13	1.53	0.44
2:K:906:LEU:HA	2:K:906:LEU:HD22	1.79	0.44
1:C:714:PHE:CE1	1:C:725:LEU:HD12	2.51	0.44
2:H:746:GLY:O	2:H:843:TRP:NE1	2.50	0.44
1:C:626:TRP:CD2	1:C:898:PHE:CD1	3.04	0.44
2:J:38:PRO:HD2	2:J:104:LEU:CD1	2.45	0.44
2:J:76:VAL:HG11	2:J:109:PHE:HD1	1.82	0.44
2:H:827:GLN:CD	2:H:827:GLN:H	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1164:ILE:CD1	1:B:1355:GLN:HG3	2.46	0.44
2:I:781:GLY:CA	2:I:1071:VAL:HG13	2.46	0.44
1:F:766:ALA:HA	1:F:769:ILE:HD12	2.00	0.44
2:G:1366:ILE:O	2:G:1366:ILE:HG22	2.17	0.44
1:A:1546:GLY:O	1:A:1547:ARG:C	2.55	0.44
2:I:1309:PHE:N	2:I:1309:PHE:CD1	2.84	0.44
2:H:1481:ILE:O	2:H:1481:ILE:HG13	2.17	0.44
2:L:787:ASP:O	2:L:790:PRO:HD2	2.17	0.44
2:G:1643:VAL:CG1	2:G:1649:ILE:HD11	2.48	0.44
2:I:1028:VAL:HA	2:I:1029:PRO:HD3	1.74	0.44
1:E:415:TYR:CE2	1:E:1614:THR:HB	2.52	0.44
2:J:1447:GLN:HB3	2:J:1496:VAL:HG13	1.99	0.44
2:K:699:ILE:HD12	2:K:699:ILE:N	2.31	0.44
2:G:317:TRP:CD1	2:G:454:ASP:CG	2.90	0.44
2:K:1031:VAL:HA	2:K:1032:PRO:HD3	1.70	0.44
2:H:1977:ARG:CD	2:H:1978:LYS:HG3	2.47	0.44
1:A:1495:ARG:HG2	1:A:1495:ARG:HH11	1.82	0.44
1:B:1265:LEU:O	1:B:1266:LEU:HD23	2.17	0.44
1:A:958:GLU:HA	1:A:959:PRO:HD3	1.84	0.44
1:A:1393:VAL:N	1:A:1394:PRO:CD	2.80	0.44
1:B:1321:MET:HE3	1:D:1251:GLN:HG3	1.97	0.44
2:H:52:PHE:HB2	2:H:82:PHE:CE2	2.52	0.44
2:G:1483:LEU:HG	2:G:1483:LEU:H	1.13	0.44
1:B:940:ASN:HB3	1:B:949:GLU:OE2	2.17	0.44
1:C:1393:VAL:N	1:C:1394:PRO:CD	2.80	0.44
1:E:1184:ASP:OD1	1:E:1185:PRO:HD2	2.16	0.44
2:G:1519:THR:O	2:G:1520:LYS:HB2	2.16	0.44
1:A:1685:ALA:HB1	1:A:1686:PRO:HD2	1.99	0.44
2:H:608:MET:HB3	2:H:608:MET:HE2	1.59	0.44
2:H:856:THR:HG23	2:H:866:HIS:NE2	2.32	0.44
1:C:1514:ILE:CD1	1:C:1545:LEU:HB3	2.47	0.44
2:L:276:LEU:HD21	2:L:296:ALA:HA	1.99	0.44
2:L:290:VAL:HG11	2:L:315:LEU:CD1	2.47	0.44
2:L:460:ILE:CD1	2:L:487:ILE:HD11	2.46	0.44
2:L:511:THR:O	2:L:512:HIS:CD2	2.70	0.44
2:H:472:THR:HB	2:H:493:MET:HB3	2.00	0.44
2:L:846:THR:HG22	2:L:855:ILE:C	2.37	0.44
2:J:168:LYS:H	2:J:511:THR:HB	1.82	0.44
2:K:917:ARG:NH1	2:K:917:ARG:CG	2.47	0.44
2:L:1181:PHE:HE1	2:L:1191:PRO:HD2	1.78	0.44
1:A:612:ILE:HG12	1:A:628:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:868:LEU:HD12	2:J:1066:ILE:HD12	1.99	0.44
2:I:1644:LEU:HB3	2:I:1645:PRO:CD	2.47	0.44
2:K:876:TRP:C	2:K:876:TRP:HD1	2.16	0.44
1:E:40:ARG:HH21	1:E:74:VAL:HG22	1.83	0.44
2:G:1299:VAL:HA	2:G:1300:PRO:HD3	1.82	0.44
2:I:606:ALA:HB2	2:I:811:MET:CG	2.47	0.44
1:C:392:ASP:HA	1:C:393:PRO:HD2	1.78	0.44
2:H:208:LEU:HD23	2:H:211:LEU:HD12	1.99	0.44
1:E:474:ILE:O	1:E:478:LYS:HG3	2.17	0.44
1:D:1703:VAL:CG1	1:D:1711:LEU:HD22	2.47	0.44
1:D:1674:ILE:HD12	2:J:1010:ALA:CB	2.46	0.44
1:D:564:LEU:O	1:D:567:ASN:HB2	2.16	0.44
2:G:1370:LEU:CA	2:G:1435:TYR:HE2	2.30	0.44
1:A:422:LEU:HD13	1:A:429:ILE:HG23	2.00	0.44
2:G:45:ALA:HB2	2:G:101:VAL:HG22	2.00	0.44
2:K:48:LEU:HG	2:K:48:LEU:H	1.54	0.44
2:L:48:LEU:HB2	2:L:79:TYR:OH	2.18	0.44
1:C:1419:LYS:O	1:C:1422:ARG:HB2	2.17	0.44
2:K:113:PHE:N	2:K:113:PHE:CD1	2.85	0.44
1:A:984:LEU:HD21	1:A:1510:TRP:O	2.17	0.44
1:F:852:LEU:O	1:F:852:LEU:HD23	2.17	0.44
1:D:626:TRP:CD2	1:D:898:PHE:HD1	2.35	0.44
1:E:935:GLU:HG3	2:K:1466:VAL:CG1	2.47	0.44
2:J:1948:MET:HG2	2:J:1993:PHE:CZ	2.52	0.44
1:B:1306:GLY:O	1:B:1357:CYS:HB2	2.17	0.44
2:K:204:ILE:CG2	2:K:312:VAL:HG21	2.46	0.44
1:A:47:ILE:CD1	2:G:1818:PHE:HD1	2.30	0.44
2:I:827:GLN:H	2:I:827:GLN:CD	2.21	0.44
2:L:871:ARG:HB2	2:L:909:ASP:HB2	1.98	0.44
2:L:204:ILE:CG2	2:L:312:VAL:HG11	2.47	0.44
2:K:2009:PHE:C	2:K:2009:PHE:HD2	2.20	0.44
2:K:1571:LEU:O	2:K:1649:ILE:N	2.46	0.44
2:K:196:PHE:CD1	2:K:266:LYS:HB3	2.52	0.44
2:K:1977:ARG:CD	2:K:1978:LYS:HG3	2.46	0.44
1:A:1084:GLU:H	1:A:1084:GLU:CD	2.19	0.44
1:E:526:MET:HE1	1:E:614:PHE:HB3	1.99	0.44
1:A:382:ILE:HG13	1:A:382:ILE:H	1.53	0.44
2:H:1972:ILE:HG13	2:H:1972:ILE:H	1.42	0.44
2:J:399:TYR:CE2	2:J:403:LEU:HD11	2.52	0.44
2:H:1325:VAL:HG13	2:H:1330:ASN:O	2.17	0.44
2:L:1820:ASP:O	2:L:1823:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1579:GLN:O	1:E:1583:THR:HG23	2.17	0.44
2:J:1961:SER:O	2:J:1965:VAL:HG22	2.18	0.44
2:L:52:PHE:HB2	2:L:82:PHE:CE2	2.53	0.44
2:H:1914:LEU:O	2:H:1931:GLY:HA3	2.18	0.44
1:C:1175:VAL:HA	1:C:1176:PRO:HD3	1.84	0.44
2:I:1634:SER:HB3	2:I:1684:GLU:HB2	1.99	0.44
1:B:681:ILE:HG23	1:B:681:ILE:O	2.17	0.44
2:L:1443:GLU:OE1	2:L:1443:GLU:HA	2.17	0.44
2:H:1336:VAL:HG12	2:H:1336:VAL:O	2.17	0.44
2:H:729:ASN:HD22	2:H:729:ASN:N	2.15	0.44
2:I:353:ILE:HG22	2:I:353:ILE:O	2.16	0.44
2:K:1336:VAL:HG12	2:K:1336:VAL:O	2.16	0.44
2:J:835:ALA:HB3	2:J:1073:ALA:HB1	1.98	0.44
2:I:1017:LEU:HD21	2:I:1032:PRO:HB2	1.99	0.44
2:I:1017:LEU:O	2:I:1021:GLN:HG3	2.18	0.44
1:D:1504:ARG:NH2	1:D:1545:LEU:O	2.50	0.44
2:I:1219:VAL:HB	2:I:1231:THR:HB	1.99	0.44
2:K:1047:LEU:H	2:K:1047:LEU:HD12	1.82	0.44
2:K:1050:SER:HA	2:K:1064:THR:HG21	1.99	0.44
2:K:609:THR:CB	2:K:610:PRO:HD3	2.46	0.44
1:D:1107:GLU:HA	1:D:1108:PRO:HD3	1.72	0.44
2:J:866:HIS:HB3	2:J:1068:GLN:O	2.17	0.44
2:K:685:VAL:HG13	2:K:686:PRO:HD2	1.99	0.44
1:E:570:TYR:CD2	1:E:574:ILE:HD11	2.51	0.44
1:E:409:ASP:HB2	1:E:439:ARG:HH12	1.83	0.44
2:H:501:TRP:NE1	2:H:528:THR:CG2	2.77	0.44
1:A:613:PRO:C	1:A:615:LEU:N	2.70	0.44
1:F:1102:ILE:HD13	1:F:1106:LEU:CD2	2.48	0.44
2:I:929:MET:CE	2:I:934:VAL:HA	2.47	0.44
2:K:743:TRP:CD1	2:K:761:ILE:HD11	2.52	0.44
1:F:673:LEU:HD21	1:F:884:MET:HE3	1.99	0.44
1:F:902:ASN:C	1:F:904:GLY:H	2.20	0.44
2:J:621:THR:OG1	2:J:1083:ILE:HD13	2.18	0.44
2:J:1709:TYR:HE2	2:J:1716:LYS:HE2	1.82	0.44
1:B:1186:VAL:HG12	1:B:1187:THR:N	2.31	0.44
1:E:553:ARG:C	1:E:555:GLN:H	2.21	0.44
1:F:452:ILE:HA	1:F:452:ILE:HD13	1.89	0.44
2:K:1358:THR:O	2:K:1361:ILE:HG13	2.18	0.44
2:K:1865:LEU:O	2:K:1869:VAL:HG22	2.17	0.44
2:G:916:GLY:O	2:G:924:VAL:HG23	2.17	0.44
2:H:1350:ILE:HD13	2:H:1610:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1426:GLU:HA	1:C:1429:ARG:HB2	1.98	0.44
2:I:1933:LEU:HB3	2:I:1987:VAL:HB	1.99	0.44
2:H:1770:ASN:HB2	2:H:1776:LYS:CE	2.41	0.44
2:L:1371:LEU:O	2:L:1590:ILE:HD11	2.17	0.44
2:I:1351:VAL:CG1	2:I:1352:VAL:N	2.80	0.44
2:K:287:GLN:O	2:K:287:GLN:HG2	2.18	0.44
2:J:268:LEU:HB3	2:J:270:ARG:HD3	1.98	0.44
2:J:265:CYS:SG	2:J:275:LEU:HB2	2.57	0.44
2:G:821:GLU:OE2	2:G:1083:ILE:HG13	2.16	0.44
2:K:153:PRO:HB3	2:K:270:ARG:NH1	2.32	0.44
2:K:271:GLU:H	2:K:274:GLU:CG	2.30	0.44
2:K:1229:VAL:CG1	2:K:1230:LYS:N	2.81	0.44
1:B:330:LYS:HG3	1:B:333:ARG:HH12	1.80	0.44
2:G:38:PRO:HD2	2:G:104:LEU:CD1	2.46	0.44
1:D:1154:LEU:HD23	1:D:1154:LEU:HA	1.74	0.44
2:I:906:LEU:HA	2:I:906:LEU:HD22	1.80	0.44
2:K:541:LEU:HG	2:K:552:VAL:CG1	2.48	0.44
2:I:1481:ILE:O	2:I:1481:ILE:HG13	2.18	0.44
2:L:399:TYR:CE2	2:L:403:LEU:HD11	2.53	0.44
1:D:1446:GLU:HA	1:D:1449:ALA:HB3	1.98	0.44
2:L:202:THR:HA	2:L:228:LEU:HD11	1.98	0.44
2:H:611:THR:HG21	2:H:817:MET:CE	2.46	0.44
2:K:1752:PRO:O	2:K:1756:ILE:HG23	2.17	0.44
1:D:1686:PRO:HB2	1:D:1713:PHE:CE1	2.53	0.44
2:J:1749:PHE:CD2	2:J:1758:ARG:HB3	2.53	0.44
2:H:1384:PRO:CB	2:H:1829:ARG:HH12	2.30	0.44
1:F:21:GLN:HE22	2:L:1841:TYR:HE1	1.64	0.44
1:C:1592:ALA:O	1:C:1593:ASP:C	2.54	0.44
2:I:690:LEU:HD22	2:I:691:THR:H	1.82	0.44
1:C:93:GLU:HA	1:C:94:PRO:HD3	1.83	0.44
2:K:1146:LEU:HD11	2:K:1160:PHE:CE2	2.52	0.44
2:H:990:TYR:N	2:H:991:PRO:CD	2.80	0.44
2:I:1473:PHE:HE1	2:I:1513:VAL:HG21	1.81	0.44
1:A:1219:GLY:HA2	1:A:1272:PRO:HD2	1.99	0.44
2:K:990:TYR:N	2:K:991:PRO:CD	2.81	0.44
2:L:668:ARG:HH21	2:L:1023:ARG:HH12	1.66	0.44
2:G:1693:VAL:HA	2:G:1834:ALA:O	2.18	0.44
2:K:342:ASN:HB3	2:K:406:ARG:HD3	1.99	0.44
2:L:1969:LEU:HA	2:L:1972:ILE:HD12	2.00	0.44
1:F:450:TYR:C	1:F:450:TYR:CD2	2.90	0.44
1:B:1080:LEU:HA	1:B:1080:LEU:HD23	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:704:GLU:OE1	2:I:704:GLU:HA	2.17	0.44
2:L:416:GLN:HE22	2:L:425:LYS:H	1.66	0.44
2:I:1231:THR:CG2	2:I:1595:VAL:HG11	2.48	0.44
2:I:610:PRO:HD2	4:I:2101:FMN:C6	2.24	0.44
1:D:1148:LEU:HA	1:D:1148:LEU:HD23	1.67	0.44
1:A:1672:GLY:O	1:A:1676:ASN:N	2.50	0.44
2:G:1067:LEU:HB3	4:G:2101:FMN:HM82	2.00	0.44
2:G:609:THR:CG2	2:G:633:GLY:HA3	2.46	0.44
2:H:915:PHE:CD2	2:H:915:PHE:O	2.70	0.44
2:H:938:MET:HE2	2:H:959:THR:HG22	1.99	0.44
2:J:796:TRP:HH2	2:J:805:MET:HE1	1.76	0.44
2:H:327:PRO:N	2:I:1338:ARG:NH2	2.66	0.44
2:G:528:THR:HA	2:G:531:ASN:ND2	2.33	0.44
2:K:606:ALA:HB2	2:K:811:MET:CG	2.47	0.44
2:L:1645:PRO:O	2:L:1646:ASN:HB2	2.18	0.44
2:H:604:MET:HE1	2:H:777:VAL:HG11	1.99	0.44
2:H:1939:LEU:O	2:H:1943:LEU:HG	2.18	0.44
1:E:1275:THR:HA	1:E:1276:PRO:HD3	1.58	0.44
2:H:1746:THR:CB	2:H:1792:THR:HG23	2.43	0.44
1:D:1042:LEU:O	1:D:1043:LYS:HB2	2.17	0.44
2:J:45:ALA:HB2	2:J:101:VAL:HG22	2.00	0.44
2:H:1886:VAL:HG22	2:H:1995:THR:HG22	1.99	0.44
1:A:486:VAL:HG13	1:A:648:LEU:H	1.80	0.44
2:G:792:LEU:HD23	2:G:1094:HIS:ND1	2.32	0.44
2:L:821:GLU:OE2	2:L:1083:ILE:HG13	2.17	0.44
2:J:1353:GLY:HA2	2:J:1397:THR:HG21	2.00	0.44
2:K:617:PHE:HE1	2:K:819:ALA:HB3	1.82	0.44
2:G:1802:ALA:CB	2:G:1804:GLN:HE22	2.29	0.44
1:E:1493:PHE:CE2	1:E:1509:THR:HG22	2.52	0.44
2:J:1203:TYR:O	2:J:1219:VAL:HA	2.17	0.44
2:H:186:LEU:HD21	2:H:256:VAL:HG22	1.99	0.44
2:J:197:VAL:HA	2:J:262:MET:HE1	1.99	0.44
1:C:883:LEU:N	1:C:883:LEU:HD23	2.32	0.44
1:F:1553:VAL:HG22	1:F:1604:TYR:O	2.17	0.44
2:H:1966:ARG:HG3	2:H:1967:ALA:N	2.33	0.44
2:H:1643:VAL:HG13	2:H:1649:ILE:HD11	1.99	0.44
2:J:611:THR:HG22	2:J:1051:GLU:OE2	2.18	0.44
2:I:202:THR:O	2:I:206:GLU:HG3	2.18	0.44
2:J:728:ILE:O	2:J:732:LYS:HG3	2.17	0.44
1:F:1160:VAL:HG11	1:F:1337:PRO:HB3	1.99	0.44
1:C:844:ILE:H	1:C:844:ILE:HD12	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1981:GLU:O	2:L:1984:PRO:HG3	2.16	0.44
2:K:1977:ARG:HD3	2:K:1978:LYS:HG3	1.98	0.44
1:D:1171:ARG:HD3	1:D:1177:GLU:OE1	2.16	0.44
2:I:1728:GLU:HG2	2:I:1753:ARG:HE	1.82	0.44
2:K:690:LEU:HD22	2:K:691:THR:H	1.83	0.44
1:C:450:TYR:CE1	1:C:1551:ASN:HB2	2.53	0.44
2:G:988:GLU:HA	2:G:989:PRO:HD3	1.70	0.44
2:G:1930:ALA:HB1	2:G:2004:PRO:HB3	1.99	0.44
1:E:1065:LYS:O	1:E:1069:GLU:HB2	2.18	0.44
1:E:679:LYS:HG2	1:E:708:GLN:HB3	1.99	0.44
2:J:1325:VAL:HG13	2:J:1330:ASN:O	2.17	0.44
2:I:719:GLY:O	2:I:755:GLU:HG3	2.17	0.44
1:D:942:VAL:O	2:J:1536:HIS:HB2	2.17	0.44
2:K:826:LYS:HA	2:K:826:LYS:HD3	1.79	0.44
1:B:1249:ILE:H	1:B:1249:ILE:HG13	1.31	0.44
2:I:1336:VAL:O	2:I:1336:VAL:HG12	2.17	0.44
2:I:155:ASP:N	2:I:155:ASP:OD1	2.51	0.44
2:G:342:ASN:HB3	2:G:406:ARG:HD3	1.97	0.44
1:C:1172:ARG:HG3	1:C:1172:ARG:HH11	1.83	0.44
2:G:754:PHE:N	2:G:754:PHE:CD1	2.85	0.44
1:F:687:PHE:CD2	1:F:687:PHE:C	2.91	0.44
1:C:1011:ARG:HH11	1:C:1012:TRP:HA	1.81	0.44
1:A:1420:TYR:O	1:A:1424:GLN:HG2	2.18	0.44
1:D:1514:ILE:CD1	1:D:1545:LEU:HB3	2.48	0.44
1:B:1504:ARG:NH2	1:B:1545:LEU:O	2.50	0.44
4:I:2101:FMN:N1	4:I:2101:FMN:O2'	2.45	0.44
2:K:608:MET:HA	4:K:2101:FMN:C5A	2.46	0.44
2:L:1047:LEU:HD12	2:L:1047:LEU:H	1.82	0.44
1:B:1104:GLN:OE1	1:D:1107:GLU:CB	2.60	0.44
2:G:855:ILE:HB	2:G:869:ALA:HB2	1.99	0.44
1:B:535:TYR:HH	1:B:630:LYS:HE3	1.74	0.44
2:G:600:VAL:HG13	2:G:601:PRO:N	2.32	0.44
2:G:1026:LYS:HG3	3:G:2102:NAP:N7A	2.32	0.44
2:J:854:VAL:HA	2:J:867:LYS:O	2.17	0.44
2:L:1123:ALA:O	2:L:1126:GLU:CG	2.57	0.44
2:J:2009:PHE:HD2	2:J:2009:PHE:C	2.20	0.44
2:J:1340:LYS:HG3	2:L:376:ARG:HH21	1.76	0.44
2:G:468:PRO:HA	2:G:479:ARG:HD3	2.00	0.44
1:E:1686:PRO:HD2	1:E:1687:TYR:CE2	2.52	0.44
1:C:1005:TRP:HE1	1:C:1561:LEU:HD22	1.78	0.44
2:I:472:THR:HB	2:I:493:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1301:VAL:HG23	1:D:1363:MET:HG3	2.00	0.44
2:H:779:GLY:HA3	2:H:811:MET:CE	2.46	0.44
2:J:604:MET:HG3	2:J:627:HIS:O	2.18	0.44
2:I:743:TRP:CD2	2:I:761:ILE:HD11	2.52	0.44
1:B:973:TRP:NE1	1:B:1648:LYS:HB2	2.31	0.44
2:I:818:THR:HA	2:I:829:LYS:HE2	1.99	0.44
1:B:1275:THR:HA	1:B:1276:PRO:HD3	1.60	0.44
1:B:1303:LEU:HA	1:B:1303:LEU:HD23	1.61	0.44
2:L:716:PHE:HD1	2:L:727:VAL:CG1	2.30	0.44
2:L:1361:ILE:HG22	2:L:1435:TYR:OH	2.18	0.44
2:G:724:ILE:O	2:G:727:VAL:HG23	2.17	0.44
2:L:80:ILE:HG12	2:L:105:ILE:CG2	2.47	0.44
2:L:596:ARG:HD3	2:L:1119:ARG:HG3	2.00	0.44
1:F:1099:GLU:HG2	1:F:1149:LEU:HD21	1.98	0.44
2:I:186:LEU:HD11	2:I:255:LEU:HD23	1.99	0.44
2:I:1934:ARG:H	2:I:1934:ARG:HG3	1.62	0.44
2:G:596:ARG:HD3	2:G:1119:ARG:HG3	1.99	0.44
2:K:1248:GLU:OE2	2:K:1250:ARG:NE	2.47	0.44
1:D:1078:ILE:HG23	1:D:1352:MET:HE3	1.99	0.44
1:B:6:GLU:HA	2:H:2050:ILE:HD11	2.00	0.44
1:F:1546:GLY:O	1:F:1547:ARG:C	2.56	0.44
1:F:968:PRO:HD2	1:F:1374:PRO:HB3	1.99	0.44
2:I:1028:VAL:HG13	2:I:1030:PHE:CE2	2.52	0.44
1:C:526:MET:HE3	1:C:614:PHE:CB	2.48	0.44
1:E:1522:PHE:CD2	1:E:1534:GLU:HB3	2.52	0.44
1:A:407:ARG:NH1	1:A:1606:VAL:HG23	2.32	0.44
2:G:907:ASN:HA	2:G:913:VAL:HG13	2.00	0.44
1:A:687:PHE:O	1:A:687:PHE:HD2	2.01	0.44
1:B:1171:ARG:HD3	1:B:1177:GLU:OE1	2.18	0.44
2:K:187:ARG:NH2	2:K:230:TRP:O	2.50	0.44
2:I:31:LEU:HB2	2:I:72:VAL:HG22	2.00	0.44
2:K:1465:ALA:O	2:K:1469:SER:HB3	2.18	0.44
2:I:77:ALA:O	2:I:139:ALA:HB1	2.18	0.44
2:K:60:THR:HG22	2:K:62:GLU:HG3	1.99	0.44
2:K:1257:VAL:HA	2:K:1258:PRO:HD3	1.78	0.44
2:G:737:PHE:HA	2:G:738:PRO:HD3	1.85	0.44
2:G:52:PHE:HB2	2:G:82:PHE:CE2	2.53	0.44
2:H:1945:ILE:O	2:H:1949:GLN:HB2	2.18	0.44
1:C:560:LYS:O	1:C:564:LEU:HB2	2.18	0.44
2:G:1217:ILE:O	2:G:1233:GLU:HA	2.17	0.44
2:L:1883:MET:HB2	2:L:2001:ILE:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:539:THR:HA	1:D:542:GLN:HE21	1.82	0.44
2:I:709:LEU:HD23	2:I:709:LEU:N	2.28	0.44
2:H:613:VAL:H	2:H:614:PRO:HD3	1.82	0.44
2:K:866:HIS:HB3	2:K:1068:GLN:O	2.18	0.44
2:H:310:ARG:HH12	2:H:459:LYS:H	1.66	0.44
1:B:1102:ILE:HD11	1:B:1148:LEU:HG	1.98	0.44
1:D:612:ILE:HG12	1:D:628:TYR:CD2	2.53	0.44
1:E:997:THR:HG23	1:E:1361:VAL:HG22	1.99	0.44
1:B:579:MET:CE	1:E:612:ILE:HD12	2.48	0.44
1:E:628:TYR:CD1	1:E:629:SER:N	2.86	0.44
2:I:174:GLY:H	2:I:517:GLY:CA	2.30	0.44
2:G:942:MET:HE2	2:G:955:LEU:HB3	1.99	0.44
2:H:912:LYS:HE2	2:H:1028:VAL:O	2.18	0.44
2:J:762:LEU:HD23	2:J:805:MET:HE1	2.00	0.44
2:K:382:LEU:HG	2:K:390:VAL:HB	2.00	0.44
2:J:865:ILE:HG22	2:J:867:LYS:HG3	2.00	0.44
2:J:1678:VAL:O	2:J:1679:LEU:HD23	2.17	0.44
1:A:1565:PRO:HG3	1:A:1572:TRP:CH2	2.52	0.44
2:G:489:GLU:O	2:G:492:ARG:HG2	2.17	0.44
1:A:1648:LYS:O	1:A:1652:GLU:HB2	2.17	0.44
1:B:1037:ASN:CG	1:B:1674:ILE:HG23	2.38	0.44
2:K:718:PRO:HG2	2:K:741:LEU:CD1	2.48	0.44
1:E:1580:VAL:O	1:E:1617:ILE:HD11	2.17	0.44
2:H:705:TYR:HA	2:H:709:LEU:HD21	1.98	0.44
1:C:452:ILE:HG22	1:C:453:ASP:N	2.31	0.44
1:D:524:LYS:O	1:D:525:GLN:C	2.55	0.44
1:E:1674:ILE:HG22	1:E:1675:ASN:OD1	2.18	0.44
2:J:48:LEU:HB2	2:J:79:TYR:OH	2.18	0.44
2:H:2003:VAL:HA	2:H:2004:PRO:HD3	1.85	0.44
2:G:1845:VAL:CG2	2:G:1856:LEU:HD22	2.42	0.44
2:K:506:VAL:CG1	2:K:506:VAL:O	2.63	0.44
2:K:52:PHE:HB2	2:K:82:PHE:CE2	2.52	0.44
2:J:1175:MET:O	2:J:1192:LEU:HD12	2.17	0.44
2:J:1192:LEU:HD22	2:J:1196:PHE:CE1	2.53	0.44
2:J:1234:ILE:HG22	2:J:1242:ILE:HG22	1.99	0.44
2:K:617:PHE:CD1	2:K:822:ALA:CA	3.01	0.44
1:A:330:LYS:HG3	1:A:333:ARG:HH12	1.79	0.44
2:K:38:PRO:HD2	2:K:104:LEU:CD1	2.45	0.44
1:E:746:PHE:CG	3:E:1901:NAP:H4D	2.53	0.44
2:L:1807:GLN:HB3	2:L:1860:VAL:CG1	2.47	0.44
2:L:26:LEU:HD23	2:L:49:LYS:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1305:LEU:HD23	2:L:1366:ILE:HD11	2.00	0.44
1:F:655:ALA:CB	1:F:742:TYR:HB2	2.48	0.44
2:I:1515:LEU:CB	2:I:1525:VAL:HG21	2.47	0.44
2:L:411:PRO:HD2	2:L:414:LEU:HD11	1.98	0.44
1:B:343:ILE:O	1:B:347:LEU:HG	2.16	0.44
1:E:889:VAL:O	1:E:893:GLN:HG3	2.18	0.44
1:F:1514:ILE:CD1	1:F:1545:LEU:HB3	2.48	0.44
2:G:1207:THR:O	2:G:1215:THR:HG23	2.17	0.44
2:K:1945:ILE:O	2:K:1949:GLN:HB2	2.18	0.44
2:L:617:PHE:HE1	2:L:819:ALA:HB3	1.83	0.44
2:L:1028:VAL:HA	2:L:1029:PRO:HD3	1.73	0.44
1:B:613:PRO:O	1:B:615:LEU:N	2.50	0.44
2:H:1586:ASP:OD1	2:H:1588:ASN:HB2	2.17	0.44
1:C:914:LEU:O	1:C:917:LYS:HB3	2.16	0.44
1:A:1171:ARG:HD3	1:A:1177:GLU:OE1	2.17	0.44
1:B:413:MET:O	1:B:416:ASP:HB2	2.18	0.44
2:J:1116:PHE:O	2:J:1270:GLY:HA3	2.18	0.44
2:G:2008:THR:HG22	2:G:2011:ARG:HE	1.83	0.44
1:C:1078:ILE:HA	1:C:1162:GLY:HA2	2.00	0.44
1:F:1219:GLY:HA2	1:F:1272:PRO:HD2	2.00	0.44
1:F:857:ASN:HA	1:F:860:ALA:HB2	1.98	0.44
2:L:1179:GLU:N	2:L:1179:GLU:OE1	2.47	0.44
2:I:1163:LEU:HA	2:I:1163:LEU:HD12	1.83	0.44
2:L:990:TYR:N	2:L:991:PRO:CD	2.80	0.44
1:E:363:GLU:O	1:E:366:LYS:HB2	2.17	0.44
2:H:462:ALA:HB3	2:H:483:ASP:HA	1.99	0.44
1:D:1102:ILE:HG13	1:D:1102:ILE:H	1.64	0.44
2:J:169:ILE:HG22	2:J:279:PHE:CD2	2.52	0.44
2:J:613:VAL:HG13	2:J:614:PRO:CD	2.47	0.44
2:K:169:ILE:HG22	2:K:279:PHE:CD2	2.51	0.44
2:K:937:ARG:HG3	2:K:941:LEU:HD12	1.99	0.44
1:B:1491:ASN:N	1:B:1491:ASN:ND2	2.65	0.44
2:J:937:ARG:CZ	2:J:941:LEU:HD11	2.47	0.44
2:K:1637:VAL:HG11	2:K:1679:LEU:CD1	2.39	0.44
1:A:1491:ASN:ND2	1:A:1491:ASN:H	2.14	0.44
1:A:612:ILE:HD11	1:F:579:MET:HB3	2.00	0.44
2:G:1769:VAL:HG13	2:G:1774:SER:C	2.38	0.44
1:F:533:SER:O	1:F:611:THR:HG22	2.18	0.44
2:J:930:THR:CG2	2:J:933:GLU:H	2.27	0.44
1:D:40:ARG:HH21	1:D:74:VAL:HG22	1.82	0.44
2:I:1645:PRO:O	2:I:1646:ASN:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1769:VAL:HG13	2:J:1774:SER:C	2.38	0.44
2:L:2058:VAL:CG1	2:L:2067:ILE:HD12	2.48	0.44
1:B:452:ILE:HG22	1:B:453:ASP:N	2.31	0.44
1:E:498:THR:CG2	1:E:858:LEU:HA	2.42	0.44
2:K:1120:ILE:HD11	2:K:1173:HIS:NE2	2.32	0.44
2:L:1768:THR:O	2:L:1776:LYS:HB2	2.17	0.44
1:E:759:ILE:HG12	1:E:813:LEU:HD23	2.00	0.44
2:H:138:ARG:HB2	2:H:192:THR:HA	1.99	0.44
2:J:664:TYR:C	2:J:666:ASN:H	2.19	0.44
2:H:76:VAL:HG11	2:H:109:PHE:HD1	1.83	0.44
2:G:1721:ARG:NH1	2:G:1854:GLU:OE2	2.51	0.44
1:E:1160:VAL:HG11	1:E:1337:PRO:HB3	1.99	0.44
2:H:1331:THR:O	2:H:1331:THR:HG22	2.18	0.44
2:J:1299:VAL:HG13	2:J:1301:PHE:CE1	2.53	0.44
2:K:1204:VAL:HG22	2:K:1219:VAL:HG22	2.00	0.44
1:E:445:LEU:O	1:E:448:MET:HB2	2.18	0.44
1:C:472:GLN:HA	1:C:472:GLN:HE21	1.82	0.44
2:K:381:SER:OG	2:K:392:THR:HG23	2.16	0.44
1:A:544:ASP:HB3	1:F:569:LEU:HD22	2.00	0.44
1:B:902:ASN:C	1:B:904:GLY:H	2.21	0.44
2:K:1116:PHE:O	2:K:1270:GLY:HA3	2.17	0.44
2:H:1031:VAL:HG22	2:H:1041:TRP:HB3	1.98	0.44
2:G:1945:ILE:O	2:G:1949:GLN:HB2	2.17	0.44
2:H:617:PHE:HE1	2:H:819:ALA:HB3	1.83	0.44
1:F:1171:ARG:HD3	1:F:1177:GLU:OE1	2.18	0.44
2:H:113:PHE:CD1	2:H:113:PHE:N	2.85	0.44
1:C:1011:ARG:NH1	1:C:1012:TRP:HA	2.32	0.44
2:G:248:VAL:O	2:G:252:LEU:HB2	2.18	0.44
1:B:726:VAL:HG21	1:B:780:ALA:HB3	1.99	0.44
2:J:1905:GLU:O	2:J:1908:ALA:HB3	2.17	0.44
2:I:1883:MET:HB2	2:I:2001:ILE:HD12	2.00	0.44
1:F:880:LEU:C	1:F:882:GLY:N	2.70	0.44
2:I:223:LYS:HB3	2:I:242:TYR:CZ	2.53	0.44
2:J:976:GLN:HA	2:J:977:PRO:HD3	1.88	0.44
2:L:858:LEU:CD2	2:L:864:PRO:HA	2.47	0.44
1:C:1153:ALA:O	1:F:1121:ARG:NH1	2.51	0.44
2:K:173:PHE:CE2	2:K:516:PHE:HB2	2.53	0.44
1:B:383:TYR:O	1:B:387:ILE:HG12	2.18	0.44
1:D:801:LEU:HD13	1:D:822:GLU:HG2	2.00	0.44
2:K:1102:LEU:HD23	2:K:1102:LEU:HA	1.83	0.44
2:J:444:LEU:HA	2:J:444:LEU:HD23	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1293:THR:HG23	1:C:1298:LYS:HB2	1.99	0.44
2:J:1002:GLU:C	2:J:1004:SER:H	2.19	0.44
1:F:1404:ALA:HA	1:F:1501:ALA:HB1	2.00	0.44
1:C:667:ALA:O	1:C:671:GLN:HG3	2.18	0.44
2:L:1594:ARG:NH1	2:L:1595:VAL:HG13	2.33	0.44
4:I:2101:FMN:H1'2	4:I:2101:FMN:H9	1.90	0.44
2:H:1067:LEU:HB3	4:H:2101:FMN:HM82	2.00	0.44
2:L:459:LYS:HA	2:L:485:ASP:CG	2.38	0.44
2:J:608:MET:HA	4:J:2101:FMN:C5A	2.47	0.44
2:K:686:PRO:HG3	2:K:1185:HIS:O	2.17	0.44
2:G:613:VAL:N	2:G:614:PRO:HD3	2.33	0.44
2:H:937:ARG:NE	2:H:941:LEU:CD1	2.81	0.44
1:C:1102:ILE:HD11	1:C:1148:LEU:HG	2.00	0.44
1:E:960:ARG:HG3	1:E:960:ARG:NH1	2.33	0.44
2:K:461:PRO:HB3	2:K:483:ASP:O	2.17	0.44
1:F:628:TYR:CD1	1:F:629:SER:N	2.85	0.44
2:I:1602:LEU:HB3	2:I:1604:GLY:H	1.82	0.44
2:J:489:GLU:O	2:J:492:ARG:HG2	2.18	0.44
2:J:376:ARG:HH22	2:K:1340:LYS:HE2	1.82	0.44
1:C:1674:ILE:HG22	1:C:1675:ASN:OD1	2.18	0.44
1:F:973:TRP:NE1	1:F:1648:LYS:HB2	2.32	0.44
1:A:474:ILE:O	1:A:478:LYS:HG3	2.17	0.44
2:K:1985:GLN:C	2:K:1987:VAL:N	2.68	0.44
2:H:1851:MET:HB3	2:H:1851:MET:HE3	1.83	0.44
2:L:723:ALA:O	2:L:726:GLN:HB2	2.17	0.44
2:J:1305:LEU:HD23	2:J:1366:ILE:HD11	1.99	0.44
2:H:38:PRO:HD2	2:H:104:LEU:CD1	2.47	0.44
2:G:1551:ILE:HG22	2:G:1552:GLU:N	2.33	0.44
1:A:1338:GLY:C	1:A:1340:MET:H	2.19	0.44
2:G:746:GLY:O	2:G:843:TRP:NE1	2.50	0.44
2:K:1844:LEU:HD22	2:K:1850:VAL:HG21	1.99	0.44
2:K:1171:TRP:CH2	2:K:1236:LEU:HB2	2.53	0.44
2:H:521:VAL:O	2:H:521:VAL:HG12	2.18	0.44
2:L:781:GLY:CA	2:L:1071:VAL:HG13	2.45	0.44
2:I:1099:LEU:HD12	2:I:1103:TYR:CB	2.47	0.44
2:J:411:PRO:HD2	2:J:414:LEU:HD11	1.99	0.44
1:F:853:MET:HG2	1:F:856:ASN:ND2	2.32	0.44
2:K:196:PHE:N	2:K:196:PHE:HD2	2.16	0.44
1:E:902:ASN:C	1:E:904:GLY:H	2.21	0.44
2:L:1031:VAL:HG22	2:L:1041:TRP:HB3	2.00	0.44
1:E:491:SER:O	1:E:493:PRO:HD3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1977:ARG:CD	2:J:1978:LYS:HG3	2.47	0.44
1:C:1171:ARG:HD3	1:C:1177:GLU:OE1	2.17	0.44
1:C:1177:GLU:O	1:C:1180:ILE:HB	2.17	0.44
1:A:1577:CYS:SG	1:A:1622:VAL:HG12	2.58	0.44
1:F:1651:TYR:CE2	1:F:1655:CYS:SG	3.11	0.44
2:J:223:LYS:HB3	2:J:242:TYR:CZ	2.52	0.44
1:B:23:ALA:HA	2:H:2007:SER:O	2.17	0.44
2:K:1910:VAL:HG11	2:K:1973:ILE:HG21	1.98	0.44
1:F:1698:ASN:HA	1:F:1699:PRO:HD3	1.81	0.44
2:J:173:PHE:CE2	2:J:516:PHE:HB2	2.53	0.44
2:J:729:ASN:N	2:J:729:ASN:HD22	2.16	0.44
2:L:704:GLU:OE1	2:L:704:GLU:HA	2.17	0.44
2:G:1443:GLU:OE1	2:G:1443:GLU:HA	2.18	0.44
1:E:1470:ARG:HA	1:E:1470:ARG:HD3	1.77	0.44
2:I:676:LEU:HD13	2:I:676:LEU:C	2.38	0.44
2:K:656:ARG:CG	2:K:656:ARG:NH1	2.80	0.44
1:B:535:TYR:CE1	1:B:610:GLU:HB3	2.53	0.44
2:J:1048:TRP:NE1	2:J:1049:GLN:HG2	2.29	0.44
2:K:2064:SER:OG	2:K:2067:ILE:HB	2.18	0.44
2:L:174:GLY:HA2	2:L:524:ILE:CG1	2.48	0.44
1:E:1079:ARG:HG2	1:E:1079:ARG:NH1	2.14	0.44
1:A:526:MET:CE	1:A:614:PHE:HB3	2.48	0.44
1:A:1703:VAL:HG22	1:A:1712:LYS:C	2.37	0.44
2:H:765:TYR:CD2	2:H:805:MET:HG2	2.52	0.44
1:D:1280:CYS:HB2	1:D:1626:GLY:HA2	2.00	0.44
2:G:472:THR:CG2	2:G:499:VAL:HG22	2.48	0.44
2:I:459:LYS:HA	2:I:485:ASP:CG	2.37	0.44
2:J:1738:VAL:HA	2:J:1800:LEU:HD13	1.99	0.44
2:L:1871:VAL:HG21	2:L:2003:VAL:HA	2.00	0.44
1:B:1179:ILE:O	1:B:1183:VAL:HG23	2.18	0.44
1:E:452:ILE:HG22	1:E:453:ASP:N	2.33	0.44
1:A:553:ARG:C	1:A:555:GLN:H	2.21	0.44
2:G:2005:PHE:CA	2:G:2010:LEU:HD11	2.48	0.44
1:D:553:ARG:C	1:D:555:GLN:H	2.20	0.44
2:L:580:LEU:O	2:L:581:VAL:HG23	2.18	0.44
2:J:1351:VAL:CG2	2:J:1584:SER:HA	2.47	0.44
2:G:1000:TYR:HA	2:G:1001:PRO:HD2	1.69	0.44
1:E:1494:TRP:CG	1:E:1505:GLY:HA3	2.53	0.44
1:A:1160:VAL:C	1:A:1352:MET:HE1	2.38	0.44
1:D:47:ILE:CD1	2:J:1818:PHE:HD1	2.31	0.44
2:H:932:ALA:O	2:H:935:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1981:GLU:O	2:K:1984:PRO:HG3	2.18	0.44
2:L:617:PHE:CD1	2:L:822:ALA:CA	3.01	0.44
2:G:1751:GLY:O	2:G:1755:LYS:HG2	2.18	0.44
1:A:407:ARG:HG3	1:A:407:ARG:H	1.59	0.44
2:L:187:ARG:NH2	2:L:234:PRO:HA	2.33	0.44
2:G:541:LEU:HG	2:G:552:VAL:CG1	2.48	0.44
2:K:1969:LEU:HA	2:K:1972:ILE:HD12	1.99	0.44
2:I:31:LEU:HD13	2:I:75:LEU:HG	1.99	0.44
1:E:914:LEU:O	1:E:917:LYS:HB3	2.18	0.44
2:J:1314:GLU:O	2:J:1394:VAL:HA	2.18	0.44
1:D:28:TRP:HE1	1:D:32:GLN:NE2	2.16	0.44
2:H:1149:ALA:HA	2:H:1150:PRO:HD3	1.89	0.44
2:J:1865:LEU:O	2:J:1869:VAL:HG22	2.18	0.44
2:I:1977:ARG:HD3	2:I:1978:LYS:HG3	1.99	0.44
2:I:1977:ARG:CD	2:I:1978:LYS:HG3	2.48	0.44
2:G:835:ALA:HB3	2:G:1073:ALA:HB1	2.00	0.44
1:A:484:PRO:HA	1:A:485:PRO:HD3	1.80	0.44
2:L:226:ASP:OD2	2:L:229:GLN:HB2	2.18	0.44
2:I:1820:ASP:O	2:I:1823:SER:HB3	2.17	0.44
2:K:704:GLU:OE1	2:K:704:GLU:HA	2.18	0.44
2:K:754:PHE:N	2:K:754:PHE:CD1	2.86	0.44
2:H:664:TYR:C	2:H:666:ASN:H	2.22	0.44
2:K:911:GLN:NE2	2:K:1065:CYS:H	2.16	0.43
2:L:1067:LEU:CB	4:L:2101:FMN:HM82	2.48	0.43
2:L:1194:ARG:HH21	2:L:1601:ASN:CG	2.21	0.43
1:D:1102:ILE:CG2	1:D:1104:GLN:HG2	2.47	0.43
2:G:618:VAL:HG11	2:G:648:ILE:HD11	2.00	0.43
1:A:427:ARG:O	1:A:430:VAL:HB	2.17	0.43
2:H:595:SER:HB2	2:H:600:VAL:O	2.18	0.43
1:E:532:ILE:HG23	1:E:907:PHE:CB	2.46	0.43
1:C:1102:ILE:HD13	1:C:1106:LEU:CD2	2.48	0.43
1:C:799:LEU:HD11	1:C:824:LEU:HD12	1.99	0.43
2:G:582:LYS:HG3	2:G:1110:VAL:CG1	2.48	0.43
2:K:272:PRO:HG2	2:K:300:THR:O	2.18	0.43
2:J:2009:PHE:CD2	2:J:2009:PHE:C	2.90	0.43
2:I:2058:VAL:CG1	2:I:2067:ILE:HD12	2.48	0.43
2:J:821:GLU:OE2	2:J:1083:ILE:HG13	2.18	0.43
2:I:2044:THR:HG21	2:I:2054:TYR:OH	2.18	0.43
2:G:1871:VAL:HG21	2:G:2003:VAL:HA	2.00	0.43
2:I:1305:LEU:H	2:I:1305:LEU:CD1	2.29	0.43
1:F:452:ILE:HG22	1:F:453:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1768:THR:O	2:I:1776:LYS:HB2	2.17	0.43
1:A:1057:GLU:HA	1:A:1058:PRO:HD3	1.87	0.43
2:K:2005:PHE:CA	2:K:2010:LEU:HD11	2.47	0.43
2:G:48:LEU:H	2:G:48:LEU:HG	1.55	0.43
2:L:1886:VAL:HG22	2:L:1995:THR:HG22	1.99	0.43
2:I:221:TYR:N	2:I:222:PRO:HD3	2.33	0.43
2:K:221:TYR:N	2:K:222:PRO:HD3	2.33	0.43
1:F:1512:LEU:HD21	1:F:1641:TYR:CE2	2.53	0.43
1:C:620:LYS:HE3	1:C:626:TRP:CZ2	2.53	0.43
2:I:1551:ILE:HG22	2:I:1552:GLU:N	2.32	0.43
2:L:1551:ILE:HG22	2:L:1552:GLU:N	2.32	0.43
1:A:30:GLU:CB	2:G:2045:ALA:HB1	2.48	0.43
2:J:24:LEU:CD1	2:J:37:VAL:HG21	2.48	0.43
1:A:715:ASN:ND2	3:A:1901:NAP:H62A	2.16	0.43
2:K:1342:PHE:CE2	2:K:1391:VAL:CG2	2.99	0.43
1:B:405:TRP:CH2	1:B:1609:SER:HB3	2.53	0.43
1:D:898:PHE:HD2	1:D:899:ALA:N	2.16	0.43
2:L:882:LYS:HD3	2:L:898:ARG:CZ	2.48	0.43
2:I:256:VAL:O	2:I:260:HIS:HD2	2.00	0.43
1:B:415:TYR:CD2	1:B:1614:THR:HA	2.53	0.43
1:A:414:TYR:C	1:A:414:TYR:CD2	2.91	0.43
2:H:611:THR:HG22	2:H:1051:GLU:OE2	2.18	0.43
2:K:1982:ALA:C	2:K:1984:PRO:HD3	2.37	0.43
2:K:1750:GLY:N	2:K:1754:GLY:HA3	2.32	0.43
2:I:1587:TYR:O	2:I:1588:ASN:C	2.56	0.43
2:K:980:LEU:HB2	2:K:996:ILE:CD1	2.48	0.43
1:C:902:ASN:C	1:C:904:GLY:H	2.21	0.43
1:F:889:VAL:O	1:F:893:GLN:HG3	2.17	0.43
2:J:1725:HIS:CD2	2:J:1854:GLU:HB2	2.53	0.43
2:I:1752:PRO:O	2:I:1756:ILE:HG23	2.18	0.43
1:F:1050:TRP:HA	1:F:1050:TRP:HE3	1.82	0.43
2:K:416:GLN:C	2:K:418:ARG:H	2.22	0.43
1:C:962:ASN:HD22	2:I:1006:GLN:HE22	1.64	0.43
1:E:626:TRP:CD2	1:E:898:PHE:CD1	3.06	0.43
2:I:594:MET:SD	2:I:809:GLY:HA3	2.58	0.43
2:L:1972:ILE:H	2:L:1972:ILE:HG13	1.44	0.43
2:H:130:THR:HG23	2:H:546:ASP:HB3	1.99	0.43
2:I:1507:VAL:HG23	2:I:1530:TYR:HE2	1.82	0.43
1:E:1042:LEU:O	1:E:1043:LYS:HB2	2.18	0.43
2:J:1537:GLY:O	2:J:1539:PRO:HD3	2.17	0.43
1:F:1507:LEU:HD23	1:F:1507:LEU:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2050:ILE:HG12	2:J:2050:ILE:O	2.18	0.43
2:I:890:LYS:HB2	2:I:890:LYS:HE3	1.80	0.43
2:L:1257:VAL:HA	2:L:1258:PRO:HD3	1.78	0.43
2:I:613:VAL:N	2:I:614:PRO:HD3	2.32	0.43
1:F:492:ILE:H	1:F:492:ILE:HG13	1.51	0.43
2:H:1067:LEU:CB	4:H:2101:FMN:HM82	2.49	0.43
2:H:279:PHE:HB2	2:H:467:ILE:HD12	2.00	0.43
2:G:1067:LEU:O	2:G:1068:GLN:HG2	2.18	0.43
1:A:1102:ILE:HD13	1:A:1106:LEU:CD2	2.48	0.43
2:K:1293:TRP:CE2	2:K:1354:TRP:HZ2	2.36	0.43
2:H:1026:LYS:HG2	2:H:1027:PRO:HD2	2.00	0.43
2:K:1873:ARG:NH1	2:K:2002:ASP:CB	2.81	0.43
2:J:929:MET:HE1	2:J:934:VAL:HG22	2.00	0.43
2:I:1603:PRO:HB2	2:I:1644:LEU:HD21	2.00	0.43
2:H:1769:VAL:HG22	2:H:1775:ILE:CA	2.37	0.43
1:F:1005:TRP:HE1	1:F:1561:LEU:CD2	2.31	0.43
1:C:1212:TYR:CD2	1:C:1371:MET:HG2	2.52	0.43
2:I:1299:VAL:HA	2:I:1300:PRO:HD3	1.81	0.43
1:A:1301:VAL:HG23	1:A:1363:MET:HG3	1.99	0.43
1:B:1674:ILE:CD1	2:H:1011:GLN:HG3	2.41	0.43
2:J:1706:MET:HE2	2:J:1738:VAL:CG1	2.48	0.43
2:L:2017:PHE:CE2	2:L:2021:LEU:HD11	2.52	0.43
1:F:498:THR:CG2	1:F:858:LEU:HA	2.43	0.43
2:J:1361:ILE:HG22	2:J:1435:TYR:OH	2.18	0.43
2:J:1602:LEU:HB3	2:J:1604:GLY:H	1.83	0.43
1:B:1280:CYS:HB2	1:B:1626:GLY:HA2	2.00	0.43
2:G:1289:TYR:CD2	2:G:1370:LEU:HD23	2.53	0.43
2:J:44:GLN:O	2:J:48:LEU:HG	2.18	0.43
2:H:2021:LEU:HD22	2:H:2025:ILE:HD11	2.00	0.43
2:H:790:PRO:HA	2:H:795:SER:OG	2.18	0.43
2:L:1590:ILE:O	2:L:1597:SER:HB3	2.17	0.43
2:K:138:ARG:HB3	2:K:192:THR:HG23	2.00	0.43
2:I:1342:PHE:HE2	2:I:1391:VAL:HB	1.83	0.43
1:D:1307:PHE:HB3	1:D:1357:CYS:HB2	1.98	0.43
1:D:11:TYR:CG	2:J:2027:LYS:HG2	2.53	0.43
1:A:1275:THR:HA	1:A:1276:PRO:HD3	1.57	0.43
1:C:12:THR:HG21	2:I:2066:LYS:HD3	1.99	0.43
2:K:788:THR:HG21	2:K:810:CYS:SG	2.57	0.43
1:B:1623:THR:HG22	1:B:1633:GLN:HB2	2.00	0.43
1:C:1480:ARG:NH2	1:F:1488:SER:HB2	2.34	0.43
1:B:883:LEU:HD23	1:B:883:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1574:PRO:HD3	2:L:1611:TYR:HE2	1.82	0.43
2:G:1966:ARG:HG3	2:G:1967:ALA:N	2.33	0.43
2:J:1851:MET:HE3	2:J:1851:MET:HB3	1.86	0.43
1:D:414:TYR:CE2	1:D:418:ILE:CD1	3.01	0.43
2:L:790:PRO:HA	2:L:795:SER:OG	2.18	0.43
2:K:2073:ASN:O	2:K:2076:LYS:N	2.51	0.43
2:G:1643:VAL:HG13	2:G:1649:ILE:HD11	2.00	0.43
1:C:414:TYR:CD2	1:C:414:TYR:C	2.91	0.43
2:L:1359:LYS:O	2:L:1362:PHE:HD1	2.01	0.43
2:H:1951:ILE:HD12	2:H:1951:ILE:H	1.83	0.43
1:A:1126:LYS:O	1:A:1127:VAL:HG23	2.19	0.43
1:C:29:ILE:HG13	2:I:1920:TYR:O	2.18	0.43
1:E:1219:GLY:CA	1:E:1272:PRO:HD2	2.48	0.43
1:F:1170:ALA:HB3	1:F:1188:LEU:HD13	2.00	0.43
2:K:437:ALA:HA	2:K:438:PRO:HD3	1.80	0.43
1:A:28:TRP:HE1	1:A:32:GLN:NE2	2.16	0.43
1:C:1063:ASP:O	1:C:1064:VAL:C	2.56	0.43
2:J:1883:MET:HB2	2:J:2001:ILE:HD12	1.98	0.43
2:G:664:TYR:C	2:G:666:ASN:H	2.22	0.43
2:I:545:ILE:HG22	2:I:555:LYS:HD3	2.00	0.43
1:D:1084:GLU:CD	1:D:1084:GLU:H	2.22	0.43
1:B:1031:MET:HE2	1:B:1031:MET:HB3	1.67	0.43
2:I:1810:LEU:HA	2:I:1810:LEU:HD23	1.89	0.43
1:D:916:THR:HA	1:D:919:ARG:HB2	2.00	0.43
2:H:594:MET:HB3	2:H:808:ASP:O	2.18	0.43
1:D:50:SER:HB2	1:D:52:THR:HG23	2.00	0.43
2:K:1644:LEU:HB3	2:K:1645:PRO:CD	2.47	0.43
1:D:1470:ARG:HD3	1:D:1470:ARG:HA	1.80	0.43
2:I:608:MET:H	2:I:612:THR:CB	2.28	0.43
2:I:670:MET:HE2	2:I:670:MET:HB3	1.71	0.43
2:I:511:THR:O	2:I:512:HIS:CD2	2.71	0.43
1:E:427:ARG:HH11	1:E:492:ILE:HG12	1.82	0.43
1:E:533:SER:HB2	1:E:612:ILE:H	1.83	0.43
1:E:533:SER:HB2	1:E:612:ILE:HB	1.99	0.43
2:K:1346:MET:HB3	2:K:1346:MET:HE2	1.78	0.43
1:B:409:ASP:HB2	1:B:439:ARG:HH12	1.83	0.43
2:J:1769:VAL:HG22	2:J:1775:ILE:CA	2.38	0.43
1:D:989:ASN:H	1:D:1491:ASN:ND2	2.03	0.43
2:H:1499:LYS:CG	2:H:1500:ASN:H	2.26	0.43
2:G:465:LEU:HB2	2:G:479:ARG:CG	2.48	0.43
2:G:481:LEU:C	2:G:483:ASP:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:290:VAL:HG11	2:J:315:LEU:CD1	2.48	0.43
2:J:481:LEU:C	2:J:483:ASP:H	2.22	0.43
1:B:498:THR:CG2	1:B:858:LEU:HA	2.43	0.43
2:J:743:TRP:CZ2	2:J:757:PHE:HA	2.50	0.43
1:B:632:LEU:O	1:B:633:THR:C	2.56	0.43
2:K:1709:TYR:HE2	2:K:1716:LYS:HE2	1.84	0.43
2:K:1721:ARG:NH1	2:K:1854:GLU:OE2	2.51	0.43
2:K:1351:VAL:CG2	2:K:1584:SER:HA	2.48	0.43
2:H:1709:TYR:CE2	2:H:1716:LYS:HG2	2.53	0.43
2:H:506:VAL:CG1	2:H:506:VAL:O	2.63	0.43
2:K:45:ALA:HB2	2:K:101:VAL:HG22	2.01	0.43
1:D:546:ARG:HH21	1:D:583:GLN:HG2	1.83	0.43
2:H:1361:ILE:HG22	2:H:1435:TYR:OH	2.18	0.43
2:G:718:PRO:HG2	2:G:741:LEU:HD11	1.99	0.43
2:L:1351:VAL:CG1	2:L:1352:VAL:N	2.81	0.43
2:J:1175:MET:SD	2:J:1274:ILE:HD13	2.58	0.43
2:K:821:GLU:HB2	2:K:1083:ILE:HD11	1.99	0.43
2:J:196:PHE:N	2:J:196:PHE:HD2	2.15	0.43
1:D:626:TRP:CD2	1:D:898:PHE:CD1	3.07	0.43
2:I:2009:PHE:O	2:I:2009:PHE:HD2	2.00	0.43
1:F:1218:VAL:O	1:F:1271:GLY:HA3	2.18	0.43
1:F:1218:VAL:HG13	1:F:1301:VAL:CG1	2.47	0.43
1:A:81:TYR:HD1	2:G:1821:MET:HE3	1.84	0.43
1:B:407:ARG:NH1	1:B:1606:VAL:HG23	2.34	0.43
2:H:196:PHE:N	2:H:196:PHE:CD2	2.85	0.43
1:D:1599:MET:HA	1:D:1602:PHE:HD2	1.84	0.43
2:I:196:PHE:N	2:I:196:PHE:CD2	2.86	0.43
2:L:1951:ILE:HD12	2:L:1951:ILE:H	1.83	0.43
1:F:1495:ARG:O	1:F:1496:ARG:HB3	2.19	0.43
2:H:1588:ASN:HA	2:H:1589:PRO:HD3	1.88	0.43
1:E:667:ALA:O	1:E:671:GLN:HG3	2.18	0.43
2:G:883:ILE:HG22	2:G:884:PHE:CD2	2.54	0.43
2:G:60:THR:HG22	2:G:62:GLU:HG3	2.00	0.43
1:B:1157:ASP:O	1:B:1327:ALA:HB3	2.17	0.43
1:B:1063:ASP:O	1:B:1064:VAL:C	2.55	0.43
1:B:340:LEU:HD12	1:E:347:LEU:HD12	2.00	0.43
1:B:533:SER:O	1:B:611:THR:HG22	2.18	0.43
2:I:1537:GLY:O	2:I:1539:PRO:HD3	2.17	0.43
2:K:245:SER:HA	2:K:436:THR:OG1	2.19	0.43
1:A:27:ARG:H	1:A:27:ARG:HG2	1.38	0.43
2:L:676:LEU:HD13	2:L:676:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1102:LEU:HA	2:G:1102:LEU:HD23	1.78	0.43
2:I:1179:GLU:N	2:I:1179:GLU:OE1	2.47	0.43
2:I:1366:ILE:HG22	2:I:1366:ILE:O	2.19	0.43
2:K:134:ILE:HG13	2:K:545:ILE:CD1	2.48	0.43
2:I:618:VAL:CG1	2:I:648:ILE:HD11	2.48	0.43
2:I:716:PHE:HD1	2:I:727:VAL:CG1	2.31	0.43
2:K:1047:LEU:HD11	3:K:2102:NAP:O1N	2.18	0.43
2:G:846:THR:HG22	2:G:855:ILE:C	2.38	0.43
2:G:1067:LEU:CB	4:G:2101:FMN:HM82	2.49	0.43
2:L:1637:VAL:CG1	2:L:1679:LEU:HD13	2.34	0.43
2:L:1375:HIS:ND1	2:L:1610:MET:HG2	2.33	0.43
2:L:1610:MET:CA	2:L:1610:MET:HE2	2.33	0.43
2:K:174:GLY:H	2:K:517:GLY:CA	2.30	0.43
2:J:907:ASN:HA	2:J:913:VAL:HG13	1.99	0.43
2:G:1635:TYR:CE2	2:G:1637:VAL:HG23	2.53	0.43
2:I:930:THR:CG2	2:I:933:GLU:H	2.26	0.43
2:J:1050:SER:HA	2:J:1064:THR:HG21	2.01	0.43
2:L:828:ALA:O	2:L:832:ILE:HG13	2.18	0.43
2:H:43:PHE:CB	2:I:22:ARG:HE	2.30	0.43
1:D:1218:VAL:HG13	1:D:1301:VAL:CG1	2.47	0.43
2:J:580:LEU:HG	2:J:1098:LEU:HD23	2.01	0.43
1:B:498:THR:HG22	1:B:508:TYR:CD1	2.53	0.43
1:B:673:LEU:HD21	1:B:884:MET:HE1	1.99	0.43
1:E:1363:MET:HE2	1:E:1363:MET:HB2	1.74	0.43
2:K:726:GLN:O	2:K:730:ILE:HG12	2.18	0.43
1:E:1094:LYS:HE3	1:E:1316:TYR:CG	2.52	0.43
2:K:1706:MET:HE2	2:K:1738:VAL:HG11	2.00	0.43
2:K:1361:ILE:HG22	2:K:1435:TYR:OH	2.18	0.43
2:J:1028:VAL:HA	2:J:1029:PRO:HD3	1.73	0.43
2:G:1411:LYS:HB2	2:G:1439:TYR:CD1	2.53	0.43
1:C:1258:MET:HG2	1:C:1307:PHE:CZ	2.53	0.43
2:L:1985:GLN:C	2:L:1987:VAL:N	2.69	0.43
1:B:716:GLN:NE2	1:B:747:ALA:HB3	2.32	0.43
1:A:1493:PHE:CE2	1:A:1509:THR:HG22	2.53	0.43
1:D:967:PHE:CE2	1:D:1662:GLN:CB	3.01	0.43
2:K:221:TYR:HA	2:K:242:TYR:OH	2.18	0.43
2:K:1324:PHE:HA	2:K:1583:VAL:HG11	2.00	0.43
2:H:1366:ILE:O	2:H:1366:ILE:HG22	2.18	0.43
1:F:30:GLU:HB2	2:L:2045:ALA:CB	2.48	0.43
2:H:827:GLN:O	2:H:830:GLN:HB3	2.18	0.43
1:D:883:LEU:N	1:D:883:LEU:HD23	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:141:TYR:CD2	2:J:196:PHE:CZ	3.06	0.43
1:B:1697:LEU:O	1:D:1405:ARG:HA	2.18	0.43
2:I:1517:LEU:CG	2:I:1523:ILE:HD11	2.48	0.43
1:D:1303:LEU:HA	1:D:1303:LEU:HD23	1.61	0.43
1:E:883:LEU:HD23	1:E:883:LEU:N	2.32	0.43
2:J:381:SER:OG	2:J:392:THR:HG23	2.18	0.43
1:D:418:ILE:O	1:D:418:ILE:HG22	2.18	0.43
1:E:792:THR:O	2:H:1750:GLY:HA3	2.19	0.43
2:G:350:MET:HG3	2:G:435:ILE:CB	2.48	0.43
2:L:1093:ASP:O	2:L:1097:PHE:CD1	2.70	0.43
1:B:828:TRP:NE1	1:B:838:THR:HA	2.34	0.43
2:K:205:ALA:O	2:K:209:GLN:HG3	2.18	0.43
1:A:79:LEU:HD12	1:A:88:ILE:HD13	2.00	0.43
1:A:379:HIS:HE1	1:F:387:ILE:HD13	1.83	0.43
1:A:491:SER:O	1:A:493:PRO:HD3	2.19	0.43
2:I:690:LEU:HB2	2:I:711:ILE:HG21	2.00	0.43
2:J:589:PHE:CD1	2:J:1116:PHE:CD2	3.06	0.43
1:D:956:ILE:HA	2:J:977:PRO:HA	2.00	0.43
2:L:1133:LEU:HD12	2:L:1146:LEU:HD21	2.00	0.43
2:G:990:TYR:N	2:G:991:PRO:CD	2.81	0.43
2:I:1969:LEU:HA	2:I:1972:ILE:HD12	1.99	0.43
2:G:719:GLY:O	2:G:755:GLU:HG3	2.18	0.43
2:K:1314:GLU:O	2:K:1394:VAL:HA	2.18	0.43
1:B:996:VAL:HG11	1:B:1578:LEU:HD11	2.00	0.43
2:G:838:VAL:HG12	2:G:839:ASP:N	2.33	0.43
2:I:1726:PHE:CE1	2:I:1857:VAL:HB	2.53	0.43
1:F:662:ALA:HA	1:F:694:TYR:CZ	2.54	0.43
1:B:4:GLU:HG3	1:B:4:GLU:H	1.54	0.43
1:D:1514:ILE:HG13	1:D:1514:ILE:H	1.34	0.43
2:K:615:TRP:HB3	2:K:644:ALA:HB1	1.99	0.43
2:L:481:LEU:C	2:L:483:ASP:H	2.22	0.43
1:B:1148:LEU:CD2	1:D:1150:ILE:HG12	2.47	0.43
2:J:613:VAL:H	2:J:614:PRO:HD3	1.83	0.43
2:K:937:ARG:CZ	2:K:941:LEU:HD11	2.48	0.43
1:A:614:PHE:O	1:A:615:LEU:HD23	2.18	0.43
2:H:1873:ARG:NH1	2:H:2002:ASP:CB	2.81	0.43
2:K:1115:TYR:CE2	2:K:1174:ALA:HB2	2.54	0.43
2:G:1048:TRP:NE1	2:G:1049:GLN:HG2	2.31	0.43
2:K:352:SER:HB2	2:K:433:LEU:HD11	2.01	0.43
1:A:960:ARG:HH11	2:G:968:GLU:HB3	1.84	0.43
1:D:741:ASP:CG	1:D:793:ARG:HH11	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1919:ASN:HA	2:J:1919:ASN:HD22	1.59	0.43
2:J:460:ILE:O	2:J:486:ILE:N	2.50	0.43
1:E:869:ARG:O	1:E:903:GLY:HA3	2.17	0.43
2:G:1701:GLU:N	2:G:1704:MET:HE3	2.33	0.43
1:B:1419:LYS:HA	1:B:1422:ARG:HB2	2.00	0.43
1:E:1617:ILE:N	1:E:1617:ILE:CD1	2.78	0.43
1:E:564:LEU:O	1:E:567:ASN:HB2	2.18	0.43
1:A:767:HIS:NE2	1:A:771:LEU:HD22	2.33	0.43
1:D:452:ILE:CD1	1:D:467:LYS:HA	2.48	0.43
2:I:1061:VAL:HG11	2:I:1066:ILE:HD11	1.99	0.43
1:B:1301:VAL:HG23	1:B:1363:MET:HG3	2.01	0.43
2:G:670:MET:HE2	2:G:674:ILE:HD11	2.00	0.43
2:I:1353:GLY:HA2	2:I:1397:THR:HG21	2.00	0.43
2:I:1356:ALA:HB3	2:I:1397:THR:CG2	2.47	0.43
2:G:330:SER:N	2:H:1331:THR:HG22	2.33	0.43
2:L:611:THR:HG22	2:L:1051:GLU:OE2	2.19	0.43
2:K:819:ALA:HA	2:K:1081:GLU:O	2.18	0.43
2:J:521:VAL:O	2:J:521:VAL:HG12	2.18	0.43
1:D:472:GLN:HA	1:D:472:GLN:HE21	1.83	0.43
2:G:1351:VAL:CG1	2:G:1352:VAL:N	2.81	0.43
2:G:876:TRP:HD1	2:G:876:TRP:C	2.21	0.43
2:I:1019:LEU:HA	2:I:1022:ARG:HD2	1.99	0.43
2:I:1481:ILE:HD12	2:I:1515:LEU:CD2	2.49	0.43
2:K:737:PHE:O	2:K:773:ASN:HB3	2.19	0.43
1:D:1078:ILE:HG23	1:D:1352:MET:CE	2.48	0.43
2:H:349:PRO:O	2:H:392:THR:HA	2.19	0.43
2:G:2009:PHE:CD2	2:G:2009:PHE:C	2.92	0.43
1:A:16:GLU:OE2	2:G:2066:LYS:HD2	2.18	0.43
2:J:1982:ALA:C	2:J:1984:PRO:HD3	2.39	0.43
1:F:1162:GLY:O	1:F:1354:SER:HA	2.18	0.43
1:C:34:VAL:HG11	2:I:2047:PRO:HD3	2.01	0.43
2:K:1938:THR:HG22	2:K:1977:ARG:HA	2.01	0.43
1:A:1554:LEU:HD23	1:A:1606:VAL:HG12	2.00	0.43
1:B:1050:TRP:HE3	1:B:1050:TRP:HA	1.84	0.43
2:I:113:PHE:N	2:I:113:PHE:CD1	2.86	0.43
2:I:317:TRP:CD1	2:I:454:ASP:CG	2.92	0.43
2:H:123:ALA:O	2:H:126:VAL:HG23	2.18	0.43
1:F:667:ALA:O	1:F:670:LEU:HB3	2.19	0.43
1:C:375:TRP:HB3	1:D:375:TRP:CD2	2.54	0.43
1:A:1177:GLU:O	1:A:1180:ILE:HB	2.17	0.43
1:C:995:VAL:HG13	1:C:1375:ILE:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:77:ALA:O	2:J:139:ALA:HB1	2.19	0.43
1:C:413:MET:O	1:C:416:ASP:HB2	2.17	0.43
2:L:664:TYR:C	2:L:666:ASN:H	2.21	0.43
2:K:858:LEU:CD2	2:K:864:PRO:HA	2.48	0.43
2:I:1002:GLU:C	2:I:1004:SER:H	2.22	0.43
2:J:1160:PHE:O	2:J:1164:ILE:HG13	2.18	0.43
2:J:712:ARG:O	2:J:738:PRO:HG2	2.19	0.43
2:G:1491:ARG:O	2:G:1492:LEU:HD23	2.19	0.43
2:H:763:LEU:HA	2:H:763:LEU:HD12	1.86	0.43
1:A:352:ARG:HB2	1:A:352:ARG:HE	1.62	0.43
2:K:890:LYS:HB2	2:K:890:LYS:HE3	1.81	0.43
1:C:50:SER:HB2	1:C:52:THR:HG23	2.00	0.43
2:J:1472:TRP:CD2	2:J:1540:VAL:HG22	2.53	0.43
1:C:940:ASN:HB3	1:C:949:GLU:OE2	2.19	0.43
1:E:1451:LYS:HG2	1:E:1454:ARG:HH22	1.83	0.43
1:E:1501:ALA:O	1:E:1504:ARG:HB2	2.19	0.43
2:I:2052:LYS:H	2:I:2052:LYS:HG2	1.44	0.43
2:G:635:TYR:CD2	2:G:641:MET:HG3	2.52	0.43
2:I:601:PRO:HB2	2:I:626:TYR:CE2	2.53	0.43
2:L:1637:VAL:HG12	2:L:1679:LEU:HD22	2.01	0.43
2:H:955:LEU:HD21	2:H:1026:LYS:O	2.18	0.43
1:E:960:ARG:HB3	2:K:969:ARG:HH12	1.82	0.43
1:E:881:LEU:HA	1:E:884:MET:CG	2.38	0.43
2:I:796:TRP:CG	2:I:797:SER:N	2.86	0.43
2:H:1769:VAL:HG13	2:H:1774:SER:O	2.18	0.43
2:L:797:SER:O	2:L:802:TYR:HB2	2.19	0.43
2:G:318:ILE:HA	2:G:451:ILE:HD13	2.00	0.43
2:G:461:PRO:HD2	2:G:464:SER:OG	2.19	0.43
2:J:2044:THR:HG21	2:J:2054:TYR:OH	2.18	0.43
1:F:538:ARG:CA	1:F:585:MET:HE1	2.40	0.43
2:L:1915:LEU:HB2	2:L:1935:ALA:HB1	1.99	0.43
2:G:1871:VAL:CG1	2:G:1872:GLU:N	2.81	0.43
1:E:1217:GLU:O	1:E:1299:ALA:HB1	2.19	0.43
1:D:553:ARG:NH2	1:D:567:ASN:HD21	2.16	0.43
2:H:1709:TYR:HE2	2:H:1716:LYS:HE2	1.84	0.43
2:H:821:GLU:HB2	2:H:1083:ILE:HD11	2.00	0.43
2:G:820:LYS:HB3	2:G:1080:ASP:O	2.18	0.43
1:F:408:GLN:HE22	1:F:1609:SER:H	1.66	0.43
2:L:1356:ALA:HB3	2:L:1397:THR:CG2	2.47	0.43
2:I:1114:GLU:HB3	2:I:1169:TYR:CB	2.48	0.43
2:I:1175:MET:SD	2:I:1274:ILE:HD13	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1113:ILE:HG22	2:H:1114:GLU:N	2.34	0.43
2:J:80:ILE:HG12	2:J:105:ILE:HG22	2.01	0.43
2:I:95:HIS:CB	2:I:96:PRO:HD3	2.49	0.43
1:E:888:ILE:HA	1:E:891:LEU:HD12	2.00	0.43
1:B:1372:GLY:O	1:B:1661:ARG:HD2	2.18	0.43
1:C:828:TRP:NE1	1:C:838:THR:HA	2.33	0.43
1:A:1522:PHE:HB2	1:A:1557:PHE:CD1	2.53	0.43
2:L:1142:ILE:HG13	2:L:1209:PRO:HG2	2.00	0.43
1:F:382:ILE:H	1:F:382:ILE:HG13	1.61	0.43
2:K:1127:GLU:HA	2:K:1128:PRO:HD3	1.81	0.43
2:L:1982:ALA:C	2:L:1984:PRO:HD3	2.38	0.43
2:G:1624:ALA:CB	2:G:1665:ILE:HD13	2.49	0.43
2:I:1982:ALA:C	2:I:1984:PRO:HD3	2.39	0.43
1:D:782:LYS:HZ3	1:D:786:LYS:HD2	1.82	0.43
1:C:1495:ARG:O	1:C:1496:ARG:HB3	2.18	0.43
2:L:1945:ILE:O	2:L:1949:GLN:HB2	2.19	0.43
1:C:491:SER:O	1:C:493:PRO:HD3	2.18	0.43
2:L:1160:PHE:O	2:L:1164:ILE:HG13	2.18	0.43
2:I:1238:GLY:O	2:I:1239:ASP:HB2	2.19	0.43
2:I:1465:ALA:O	2:I:1469:SER:HB3	2.19	0.43
2:G:182:TYR:CD1	2:G:183:PHE:N	2.87	0.43
2:H:60:THR:HG22	2:H:62:GLU:HG3	2.00	0.43
2:L:1314:GLU:O	2:L:1394:VAL:HA	2.18	0.43
2:G:1920:TYR:HD2	2:G:1927:TYR:HE2	1.65	0.43
1:F:1686:PRO:HB2	1:F:1713:PHE:CD1	2.54	0.43
2:H:560:ASP:HB3	2:H:565:ALA:HB1	2.00	0.43
1:C:543:ASN:O	1:C:546:ARG:HB2	2.18	0.43
2:L:1961:SER:O	2:L:1965:VAL:HG22	2.18	0.43
2:K:988:GLU:HA	2:K:989:PRO:HD3	1.73	0.43
2:H:607:GLY:HA2	2:H:612:THR:HG21	2.00	0.43
2:H:162:ALA:CA	2:H:167:VAL:HG22	2.48	0.43
2:H:251:PRO:CG	2:H:316:PHE:HA	2.45	0.43
1:A:556:HIS:HA	1:A:563:GLN:HE22	1.83	0.43
1:D:557:ARG:HG3	1:D:557:ARG:NH1	2.01	0.43
2:K:595:SER:CB	2:K:602:PRO:HG3	2.30	0.43
2:K:174:GLY:HA2	2:K:524:ILE:HG12	2.01	0.43
2:G:1026:LYS:HG2	2:G:1027:PRO:HD2	2.00	0.43
2:H:1028:VAL:HG13	2:H:1030:PHE:CE2	2.54	0.43
2:H:912:LYS:HG2	2:H:1029:PRO:C	2.38	0.43
1:A:612:ILE:HA	1:A:613:PRO:HD3	1.59	0.43
1:F:1102:ILE:H	1:F:1102:ILE:HG13	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1148:LEU:CD2	1:F:1150:ILE:HG12	2.49	0.43
2:K:276:LEU:HD21	2:K:296:ALA:HA	2.00	0.43
2:I:1370:LEU:CD1	2:I:1373:LEU:HD13	2.48	0.43
2:H:1265:TYR:HE1	2:H:1267:PRO:HG3	1.76	0.43
1:A:960:ARG:HG3	1:A:960:ARG:NH1	2.34	0.43
1:C:908:ILE:HA	1:C:909:PRO:HD3	1.87	0.43
2:I:1404:VAL:O	2:I:1445:THR:HA	2.19	0.43
2:J:1903:VAL:HG13	2:J:1942:VAL:HG11	2.01	0.43
2:J:472:THR:HG23	2:J:499:VAL:HA	1.99	0.43
1:B:1685:ALA:HB1	1:B:1686:PRO:CD	2.48	0.43
2:K:2044:THR:HG21	2:K:2054:TYR:CZ	2.53	0.43
2:J:1709:TYR:CE2	2:J:1716:LYS:HG2	2.53	0.43
1:F:498:THR:HG22	1:F:508:TYR:CD1	2.53	0.43
2:J:1764:MET:O	2:J:1780:ILE:HG13	2.18	0.43
1:B:985:ARG:O	1:B:987:MET:HG2	2.19	0.43
1:F:1648:LYS:O	1:F:1652:GLU:HB2	2.19	0.43
1:B:527:ALA:HB2	1:B:637:LEU:HD22	2.01	0.43
2:K:1706:MET:HE1	2:K:1735:ILE:HG23	2.00	0.43
1:A:756:ILE:HG22	1:F:827:ARG:NH1	2.34	0.43
2:J:379:GLY:O	2:J:391:VAL:HG13	2.18	0.43
2:G:358:ARG:HB2	2:G:389:PHE:CE2	2.53	0.43
1:F:11:TYR:CD1	2:L:2027:LYS:HG2	2.54	0.43
2:G:743:TRP:CD2	2:G:761:ILE:HD11	2.53	0.43
2:L:741:LEU:O	2:L:741:LEU:CG	2.64	0.43
2:K:785:SER:HB3	2:K:1094:HIS:CD2	2.53	0.43
1:C:405:TRP:CH2	1:C:1609:SER:HB3	2.54	0.43
2:L:256:VAL:O	2:L:260:HIS:HD2	2.01	0.43
1:C:898:PHE:CD2	1:C:899:ALA:N	2.86	0.43
2:K:80:ILE:HG12	2:K:105:ILE:CG2	2.49	0.43
1:F:620:LYS:HE3	1:F:626:TRP:CZ2	2.54	0.43
2:I:578:PRO:HG3	2:I:792:LEU:O	2.18	0.43
2:K:349:PRO:O	2:K:392:THR:HA	2.18	0.43
2:G:1447:GLN:HB3	2:G:1496:VAL:HG13	1.99	0.43
2:L:1553:GLN:HB3	2:L:1554:PRO:CD	2.48	0.43
1:C:573:VAL:O	1:C:577:LEU:HG	2.17	0.43
2:K:1537:GLY:O	2:K:1539:PRO:HD3	2.18	0.43
2:K:740:ILE:HG22	2:K:742:GLN:HG3	2.01	0.43
2:I:123:ALA:O	2:I:126:VAL:HG23	2.18	0.43
1:A:1038:HIS:CE1	1:A:1042:LEU:CD2	3.01	0.43
2:J:1127:GLU:HA	2:J:1128:PRO:HD3	1.83	0.43
1:F:1393:VAL:HB	1:F:1394:PRO:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1050:TRP:HA	1:E:1050:TRP:HE3	1.84	0.43
1:C:968:PRO:CD	1:C:1374:PRO:HB3	2.49	0.43
1:C:967:PHE:CD2	1:C:1374:PRO:HG3	2.52	0.43
1:C:967:PHE:HB3	1:C:968:PRO:CD	2.49	0.43
1:E:1393:VAL:N	1:E:1394:PRO:HD3	2.33	0.43
2:L:594:MET:SD	2:L:809:GLY:HA3	2.58	0.43
1:A:1692:GLN:HG3	1:A:1696:PHE:CE2	2.54	0.43
2:I:690:LEU:HD22	2:I:691:THR:N	2.34	0.43
2:K:1343:PHE:CE2	2:K:1388:PRO:HD2	2.53	0.43
2:I:1961:SER:O	2:I:1965:VAL:HG22	2.17	0.43
2:H:223:LYS:HB3	2:H:242:TYR:CZ	2.54	0.43
1:F:801:LEU:HD13	1:F:822:GLU:HG2	1.99	0.43
1:E:46:GLU:HB3	1:E:80:CYS:HA	2.01	0.43
1:D:449:GLN:O	1:D:450:TYR:C	2.57	0.43
2:I:1472:TRP:CD2	2:I:1540:VAL:HG22	2.53	0.43
2:I:1472:TRP:CE2	2:I:1540:VAL:HG22	2.53	0.43
1:F:414:TYR:CD2	1:F:414:TYR:C	2.91	0.43
1:A:844:ILE:N	1:A:844:ILE:HD12	2.34	0.43
2:H:690:LEU:HD22	2:H:691:THR:H	1.82	0.43
2:I:1047:LEU:H	2:I:1047:LEU:HD12	1.83	0.43
2:I:718:PRO:HG2	2:I:741:LEU:CD1	2.49	0.43
1:C:1504:ARG:NH2	1:C:1545:LEU:O	2.52	0.43
2:L:311:ALA:O	2:L:314:LEU:HB3	2.18	0.43
2:G:610:PRO:HD2	4:G:2101:FMN:C6	2.28	0.43
1:F:997:THR:CG2	1:F:1361:VAL:HG22	2.49	0.43
2:K:962:PHE:O	2:K:965:ARG:HB3	2.18	0.43
1:C:1663:LYS:HE2	2:I:1005:THR:O	2.19	0.43
2:L:1061:VAL:HG11	2:L:1066:ILE:HD11	2.01	0.43
2:H:43:PHE:HB2	2:I:22:ARG:CZ	2.47	0.43
2:I:22:ARG:HD2	2:I:39:THR:HA	2.00	0.43
2:G:1939:LEU:O	2:G:1943:LEU:HG	2.18	0.43
2:G:310:ARG:HH12	2:G:459:LYS:H	1.67	0.43
2:G:462:ALA:HB3	2:G:483:ASP:HA	2.00	0.43
2:J:382:LEU:HG	2:J:390:VAL:HB	2.00	0.43
1:D:452:ILE:HA	1:D:452:ILE:HD13	1.87	0.43
1:C:21:GLN:HE22	2:I:1841:TYR:HE1	1.66	0.43
1:A:1051:VAL:HG13	1:A:1057:GLU:O	2.19	0.43
2:H:1760:ASN:O	2:H:1764:MET:HG2	2.18	0.43
2:L:2039:TYR:CD2	2:L:2039:TYR:C	2.91	0.43
1:D:1217:GLU:O	1:D:1299:ALA:HB1	2.19	0.43
2:J:256:VAL:O	2:J:260:HIS:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2039:TYR:C	2:J:2039:TYR:CD2	2.91	0.43
2:L:36:LEU:HA	2:L:36:LEU:HD12	1.90	0.43
2:I:1804:GLN:CB	2:I:1861:PHE:HE1	2.32	0.43
2:K:1383:VAL:CG2	2:K:1428:TYR:HE1	2.30	0.43
2:K:1093:ASP:O	2:K:1097:PHE:CD1	2.71	0.43
1:C:985:ARG:O	1:C:987:MET:HG2	2.18	0.43
2:G:1171:TRP:CG	2:G:1172:ARG:N	2.86	0.43
2:K:1851:MET:HB3	2:K:1851:MET:HE3	1.83	0.43
1:E:421:ARG:HH22	1:E:1613:LYS:CG	2.31	0.43
1:C:1213:VAL:CG1	1:C:1217:GLU:HB2	2.49	0.43
1:B:746:PHE:CD2	3:B:1901:NAP:H4D	2.53	0.43
2:K:1237:VAL:O	2:K:1241:GLU:HB2	2.19	0.43
2:H:411:PRO:HD2	2:H:414:LEU:HD11	2.00	0.43
2:H:1229:VAL:CG1	2:H:1230:LYS:N	2.81	0.43
2:J:1481:ILE:HG13	2:J:1481:ILE:O	2.19	0.43
2:L:1481:ILE:HD12	2:L:1515:LEU:CD2	2.49	0.43
2:K:1521:GLU:OE2	2:K:2028:THR:CG2	2.67	0.43
2:G:1248:GLU:HB2	2:G:1596:PHE:CE1	2.54	0.43
2:H:2050:ILE:O	2:H:2050:ILE:HG12	2.19	0.43
1:A:88:ILE:HG21	2:G:1821:MET:HE1	2.00	0.43
2:J:372:LEU:CD1	2:J:397:SER:HB2	2.49	0.43
2:J:700:GLU:HA	2:J:703:ASN:HB2	2.01	0.43
2:L:1248:GLU:OE2	2:L:1250:ARG:NE	2.50	0.43
2:H:196:PHE:N	2:H:196:PHE:HD2	2.16	0.43
2:K:317:TRP:CD1	2:K:454:ASP:OD2	2.72	0.43
2:J:187:ARG:NH2	2:J:234:PRO:HA	2.33	0.43
2:J:1945:ILE:HG22	2:J:1946:LEU:N	2.33	0.43
1:C:968:PRO:HG3	1:C:1376:TYR:CE1	2.53	0.43
2:G:1749:PHE:CD2	2:G:1758:ARG:HB3	2.54	0.43
2:K:1920:TYR:HD2	2:K:1927:TYR:HE2	1.65	0.43
2:K:690:LEU:HD22	2:K:691:THR:N	2.34	0.43
2:K:187:ARG:NH2	2:K:234:PRO:HA	2.33	0.43
1:B:1011:ARG:NH1	1:B:1012:TRP:HA	2.33	0.43
2:J:1914:LEU:O	2:J:1931:GLY:HA3	2.17	0.43
1:D:662:ALA:HA	1:D:694:TYR:CZ	2.53	0.43
2:L:838:VAL:HG12	2:L:839:ASP:N	2.33	0.43
2:H:1920:TYR:HD2	2:H:1927:TYR:HE2	1.66	0.43
1:E:4:GLU:HG3	1:E:4:GLU:H	1.53	0.43
2:G:1961:SER:O	2:G:1965:VAL:HG22	2.19	0.43
1:C:916:THR:HA	1:C:919:ARG:HB2	2.01	0.43
2:G:1211:ASP:HA	2:G:1212:PRO:HD2	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1726:PHE:CE1	2:K:1857:VAL:HB	2.54	0.43
2:J:1920:TYR:HD2	2:J:1927:TYR:HE2	1.65	0.43
2:K:1067:LEU:CB	4:K:2101:FMN:HM82	2.49	0.43
2:K:1067:LEU:O	2:K:1068:GLN:HG2	2.18	0.43
2:L:1067:LEU:HB3	4:L:2101:FMN:HM82	2.01	0.43
2:G:2031:ASP:C	2:G:2033:SER:N	2.72	0.43
2:H:501:TRP:CZ2	2:H:524:ILE:HG21	2.53	0.43
2:G:501:TRP:CD1	2:G:501:TRP:C	2.89	0.43
1:A:40:ARG:HH21	1:A:74:VAL:HG22	1.83	0.43
1:D:673:LEU:HD21	1:D:884:MET:HE3	2.00	0.43
2:G:490:LEU:HD23	2:G:493:MET:SD	2.59	0.43
1:A:1005:TRP:HE1	1:A:1561:LEU:HD22	1.81	0.43
1:C:1617:ILE:CD1	1:C:1617:ILE:N	2.77	0.43
1:D:440:SER:HB3	1:D:481:LEU:CD2	2.40	0.43
2:I:1764:MET:O	2:I:1780:ILE:HG13	2.18	0.43
2:G:2044:THR:HG21	2:G:2054:TYR:CZ	2.54	0.43
2:L:662:LEU:HD22	2:L:673:GLN:OE1	2.18	0.43
2:G:1851:MET:CE	2:G:2025:ILE:HG12	2.48	0.43
2:J:705:TYR:HA	2:J:709:LEU:HD21	2.00	0.43
1:F:756:ILE:HA	1:F:759:ILE:CD1	2.46	0.43
1:C:22:PHE:O	2:I:2006:HIS:HA	2.18	0.43
2:H:45:ALA:HB2	2:H:101:VAL:HG22	1.99	0.43
2:G:621:THR:OG1	2:G:1083:ILE:HD13	2.19	0.43
2:I:1337:ASP:HB2	2:I:1342:PHE:CD1	2.54	0.43
2:G:1551:ILE:CG2	2:G:1552:GLU:HG3	2.49	0.43
2:J:950:TRP:CE2	2:J:956:LYS:HG3	2.53	0.43
1:C:401:SER:O	1:C:405:TRP:CD1	2.72	0.43
2:I:358:ARG:HB2	2:I:389:PHE:CE2	2.54	0.43
2:K:41:LEU:HD13	2:K:100:GLU:HB3	2.01	0.43
2:I:193:TYR:HD1	2:I:263:ILE:HD13	1.81	0.43
2:I:1083:ILE:H	2:I:1083:ILE:HG13	1.51	0.43
2:I:792:LEU:HD23	2:I:1094:HIS:ND1	2.33	0.43
2:K:350:MET:SD	2:K:392:THR:CG2	3.07	0.43
1:C:1488:SER:HB2	1:F:1480:ARG:NH2	2.34	0.43
2:L:350:MET:SD	2:L:392:THR:CG2	3.07	0.43
1:D:414:TYR:C	1:D:414:TYR:CD2	2.92	0.43
2:K:1175:MET:SD	2:K:1274:ILE:HD13	2.59	0.43
1:D:27:ARG:H	1:D:27:ARG:HG2	1.42	0.43
1:E:1372:GLY:O	1:E:1661:ARG:HD2	2.18	0.43
1:B:1078:ILE:HG23	1:B:1352:MET:HE3	2.01	0.43
1:B:1522:PHE:CD2	1:B:1534:GLU:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:187:ARG:HH22	2:L:234:PRO:HA	1.84	0.43
1:C:962:ASN:HB3	2:I:969:ARG:CD	2.48	0.43
1:B:960:ARG:HH11	1:B:960:ARG:HG3	1.84	0.43
1:E:1011:ARG:HH11	1:E:1012:TRP:HA	1.83	0.43
1:B:667:ALA:O	1:B:671:GLN:HG3	2.18	0.43
2:G:441:SER:C	2:G:443:TYR:H	2.22	0.43
2:J:1133:LEU:HD12	2:J:1146:LEU:HD21	2.00	0.43
2:L:946:HIS:CE1	2:L:947:GLU:HG3	2.54	0.43
2:L:759:GLN:N	2:L:760:PRO:CD	2.82	0.43
1:B:447:PHE:CE1	1:B:451:HIS:NE2	2.87	0.43
2:J:1619:LEU:O	2:J:1623:TRP:HB2	2.19	0.43
2:I:1269:ALA:HB1	2:I:1271:TYR:CE1	2.53	0.43
1:B:414:TYR:CD2	1:B:414:TYR:C	2.93	0.43
2:L:476:GLN:HG2	2:L:476:GLN:H	1.71	0.43
1:B:1071:TYR:C	1:B:1071:TYR:CD2	2.92	0.43
1:B:1191:LEU:HD23	1:B:1191:LEU:HA	1.77	0.43
2:I:60:THR:HG22	2:I:62:GLU:H	1.84	0.43
1:F:1525:THR:O	1:F:1526:SER:HB3	2.19	0.43
1:B:427:ARG:HD2	1:B:490:VAL:HG12	2.01	0.43
2:I:866:HIS:HB3	2:I:1068:GLN:O	2.18	0.43
2:I:718:PRO:HG3	2:I:727:VAL:CG2	2.49	0.43
2:H:511:THR:C	2:H:512:HIS:CD2	2.92	0.43
2:K:501:TRP:CZ2	2:K:528:THR:CG2	3.01	0.43
2:K:174:GLY:HA3	2:K:518:PRO:HD2	2.01	0.43
2:J:1009:ASN:HB2	2:J:1012:ASP:OD2	2.19	0.43
2:G:1637:VAL:HG12	2:G:1679:LEU:HD22	2.00	0.43
1:A:612:ILE:HG23	1:A:613:PRO:HD2	2.01	0.43
2:K:765:TYR:CD2	2:K:805:MET:HG2	2.54	0.43
1:C:40:ARG:HH21	1:C:74:VAL:HG22	1.83	0.43
2:I:582:LYS:HA	2:I:587:GLN:O	2.19	0.43
2:H:2058:VAL:O	2:H:2062:THR:HB	2.18	0.43
1:B:1154:LEU:HD23	1:B:1154:LEU:HA	1.73	0.43
2:L:604:MET:HE1	2:L:777:VAL:HG11	2.00	0.43
1:B:1584:GLY:HA2	1:B:1617:ILE:HD12	1.99	0.43
2:I:465:LEU:HB2	2:I:479:ARG:CG	2.48	0.43
1:F:759:ILE:N	1:F:759:ILE:HD12	2.33	0.43
2:H:726:GLN:O	2:H:730:ILE:HG12	2.18	0.43
2:H:821:GLU:OE2	2:H:1083:ILE:HG13	2.18	0.43
2:G:44:GLN:O	2:G:48:LEU:HG	2.19	0.43
1:D:8:GLU:HG2	2:J:2027:LYS:HD3	2.01	0.43
2:K:616:ASP:HB2	2:K:617:PHE:H	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:388:ASN:C	2:I:388:ASN:ND2	2.72	0.43
2:I:1551:ILE:CG2	2:I:1552:GLU:HG3	2.48	0.43
1:F:746:PHE:CD1	1:F:800:PRO:HG3	2.53	0.43
2:K:357:THR:HG22	2:K:359:SER:H	1.83	0.43
2:I:1103:TYR:C	2:I:1104:ASP:OD1	2.57	0.43
1:B:445:LEU:O	1:B:448:MET:HB2	2.19	0.43
2:H:616:ASP:OD2	2:H:823:HIS:NE2	2.52	0.43
2:I:1553:GLN:HB3	2:I:1554:PRO:CD	2.48	0.43
1:C:526:MET:CE	1:C:615:LEU:HG	2.49	0.43
2:G:1948:MET:HG2	2:G:1993:PHE:CZ	2.54	0.43
2:I:422:THR:HG21	2:I:844:GLU:HG3	2.00	0.43
1:F:1338:GLY:C	1:F:1340:MET:N	2.72	0.43
2:H:980:LEU:HB2	2:H:996:ILE:CD1	2.48	0.43
1:D:876:MET:O	1:D:876:MET:HE3	2.19	0.43
2:L:1749:PHE:CD2	2:L:1758:ARG:HB3	2.53	0.43
2:J:1951:ILE:H	2:J:1951:ILE:HD12	1.84	0.43
2:G:437:ALA:HA	2:G:438:PRO:HD3	1.76	0.43
2:K:1344:ALA:N	2:K:1389:LEU:O	2.46	0.43
1:C:1274:LYS:HG2	1:F:1289:VAL:CG2	2.49	0.43
2:I:1161:MET:HE1	2:I:1193:LYS:HG2	2.00	0.43
2:K:1447:GLN:HB3	2:K:1496:VAL:HG13	2.00	0.43
1:C:28:TRP:HE1	1:C:32:GLN:NE2	2.16	0.43
2:G:31:LEU:HB2	2:G:72:VAL:HG22	2.00	0.43
1:B:1579:GLN:O	1:B:1583:THR:HG23	2.18	0.43
1:D:968:PRO:HD2	1:D:1374:PRO:HB3	2.01	0.43
2:J:1343:PHE:CE2	2:J:1388:PRO:HD2	2.54	0.43
2:H:226:ASP:OD2	2:H:229:GLN:HB2	2.19	0.43
2:G:245:SER:HA	2:G:436:THR:OG1	2.19	0.43
1:F:1470:ARG:HA	1:F:1470:ARG:HD3	1.83	0.42
1:A:1686:PRO:HD2	1:A:1687:TYR:CE2	2.54	0.42
2:K:652:ILE:O	2:K:654:PRO:HD3	2.19	0.42
2:L:2052:LYS:HG2	2:L:2052:LYS:H	1.42	0.42
2:G:717:LYS:HD2	4:G:2101:FMN:O2	2.18	0.42
2:L:685:VAL:HA	2:L:686:PRO:HD3	1.61	0.42
2:H:174:GLY:HA2	2:H:524:ILE:CG1	2.49	0.42
2:K:433:LEU:HA	2:K:434:PRO:HD3	1.83	0.42
2:K:472:THR:CG2	2:K:499:VAL:HG22	2.49	0.42
2:L:764:MET:O	2:L:765:TYR:C	2.57	0.42
2:J:1871:VAL:HG21	2:J:2004:PRO:HD3	2.01	0.42
2:G:818:THR:HA	2:G:829:LYS:HE2	2.01	0.42
2:L:1602:LEU:HA	2:L:1602:LEU:HD12	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:462:ALA:HB3	2:J:483:ASP:HA	2.00	0.42
2:I:462:ALA:HB3	2:I:483:ASP:HA	2.00	0.42
2:J:1706:MET:HE2	2:J:1738:VAL:HG11	2.01	0.42
1:D:1617:ILE:CD1	1:D:1617:ILE:N	2.80	0.42
1:D:1057:GLU:HA	1:D:1058:PRO:HD3	1.88	0.42
1:B:756:ILE:HA	1:B:759:ILE:CD1	2.48	0.42
2:J:720:SER:HB3	2:J:723:ALA:HB2	2.00	0.42
2:J:857:VAL:HG13	2:J:876:TRP:HE1	1.79	0.42
1:F:1051:VAL:HG13	1:F:1057:GLU:O	2.19	0.42
2:G:785:SER:HB3	2:G:1090:ILE:HG23	2.01	0.42
2:L:41:LEU:HD13	2:L:100:GLU:HB3	2.01	0.42
1:E:1205:ASP:OD2	1:E:1207:TYR:HB2	2.19	0.42
1:C:1494:TRP:HE1	1:C:1509:THR:HG21	1.84	0.42
2:I:45:ALA:HB2	2:I:101:VAL:HG22	2.00	0.42
2:H:221:TYR:CD2	2:H:225:LEU:HD22	2.54	0.42
2:G:41:LEU:HD13	2:G:100:GLU:HB3	2.01	0.42
1:C:1213:VAL:HG22	1:C:1300:ARG:CZ	2.48	0.42
1:B:655:ALA:CB	1:B:742:TYR:HB2	2.48	0.42
2:K:525:GLY:O	2:K:529:ASN:HB2	2.19	0.42
2:H:776:LEU:HG	2:H:807:PHE:CD2	2.53	0.42
2:K:308:ALA:O	2:K:312:VAL:HG23	2.19	0.42
1:B:1703:VAL:HG13	1:B:1712:LYS:O	2.19	0.42
2:I:894:GLU:CD	2:I:897:LYS:HD3	2.39	0.42
2:G:2009:PHE:C	2:G:2009:PHE:HD2	2.22	0.42
2:I:291:VAL:O	2:I:295:ILE:HB	2.19	0.42
2:G:1332:GLY:C	2:G:1334:ALA:H	2.21	0.42
1:B:551:LEU:HD11	1:E:565:GLN:HG3	2.01	0.42
2:H:700:GLU:HA	2:H:703:ASN:HB2	2.01	0.42
2:H:1472:TRP:CD2	2:H:1540:VAL:HG22	2.54	0.42
2:H:1662:ARG:NH1	2:H:1684:GLU:OE1	2.52	0.42
2:K:1160:PHE:O	2:K:1164:ILE:HG13	2.18	0.42
2:K:520:GLY:C	2:K:522:SER:H	2.21	0.42
1:E:2:ARG:HB2	1:E:5:VAL:HB	2.01	0.42
2:G:560:ASP:HB3	2:G:565:ALA:HB1	2.01	0.42
1:C:996:VAL:HG11	1:C:1578:LEU:HD11	2.00	0.42
2:H:646:SER:O	2:H:649:GLU:HG2	2.18	0.42
2:J:1278:MET:HA	2:J:1281:ARG:HB2	2.00	0.42
2:H:754:PHE:N	2:H:754:PHE:CD1	2.87	0.42
1:A:709:LEU:HA	1:A:709:LEU:HD23	1.82	0.42
2:H:704:GLU:OE1	2:H:704:GLU:HA	2.19	0.42
2:K:585:VAL:O	2:K:585:VAL:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:VAL:HG11	2:J:2047:PRO:HD3	2.00	0.42
1:F:1063:ASP:O	1:F:1064:VAL:C	2.56	0.42
1:D:1175:VAL:HA	1:D:1176:PRO:HD3	1.80	0.42
1:D:1652:GLU:O	1:D:1656:VAL:HG23	2.18	0.42
1:B:1466:TYR:CE2	1:B:1470:ARG:HG3	2.54	0.42
1:A:1330:GLU:O	1:A:1335:ARG:HB2	2.20	0.42
2:K:1180:VAL:CG1	2:K:1188:GLN:H	2.29	0.42
1:E:1491:ASN:N	1:E:1491:ASN:ND2	2.67	0.42
1:C:430:VAL:HG12	1:C:434:ILE:HD11	2.00	0.42
2:H:1009:ASN:HA	2:H:1009:ASN:HD22	1.53	0.42
2:H:938:MET:HE1	2:H:959:THR:HA	2.01	0.42
2:K:462:ALA:HB3	2:K:483:ASP:H	1.83	0.42
2:I:928:ASP:C	2:I:1007:LEU:HD23	2.40	0.42
2:G:174:GLY:HA2	2:G:524:ILE:CG1	2.49	0.42
2:I:1646:ASN:HD22	2:I:1646:ASN:HA	1.69	0.42
2:H:1346:MET:CE	2:H:1617:ARG:NH2	2.82	0.42
2:I:22:ARG:HG3	2:I:39:THR:HA	2.00	0.42
2:H:1499:LYS:CG	2:H:1500:ASN:N	2.80	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:H	1.84	0.42
1:D:498:THR:HG22	1:D:508:TYR:CD1	2.53	0.42
2:J:1745:LEU:HB3	2:J:1799:LEU:CD2	2.50	0.42
2:I:468:PRO:HA	2:I:479:ARG:HD3	2.01	0.42
2:K:723:ALA:O	2:K:726:GLN:HB2	2.19	0.42
2:L:705:TYR:HA	2:L:709:LEU:HD21	1.99	0.42
1:A:974:ASP:O	1:A:979:PRO:HD3	2.20	0.42
2:J:718:PRO:HG2	2:J:741:LEU:HD11	2.01	0.42
2:K:1795:SER:CB	2:K:1799:LEU:HD12	2.47	0.42
1:D:755:GLU:C	1:D:757:ASP:N	2.72	0.42
2:L:1000:TYR:HA	2:L:1001:PRO:HD2	1.72	0.42
1:D:11:TYR:CD1	2:J:2027:LYS:HG2	2.54	0.42
2:L:1318:ALA:HB2	2:L:1391:VAL:HG11	2.01	0.42
2:I:1236:LEU:HD12	2:I:1241:GLU:O	2.18	0.42
2:I:1418:THR:HG23	2:I:1428:TYR:CE2	2.54	0.42
2:G:1481:ILE:O	2:G:1481:ILE:HG13	2.18	0.42
1:A:626:TRP:CZ3	1:A:898:PHE:HB2	2.55	0.42
1:D:407:ARG:CZ	1:D:1606:VAL:HG23	2.49	0.42
2:J:26:LEU:HD23	2:J:49:LYS:HG3	2.01	0.42
2:I:1093:ASP:O	2:I:1097:PHE:CD1	2.71	0.42
2:J:1515:LEU:CB	2:J:1525:VAL:HG21	2.50	0.42
2:J:205:ALA:O	2:J:209:GLN:HG3	2.19	0.42
2:L:1515:LEU:CB	2:L:1525:VAL:HG21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1205:ASP:OD2	1:A:1207:TYR:HB2	2.19	0.42
2:I:1934:ARG:O	2:I:1938:THR:HG23	2.19	0.42
1:D:343:ILE:O	1:D:347:LEU:HG	2.18	0.42
1:E:1099:GLU:HG2	1:E:1149:LEU:HD21	2.01	0.42
1:E:414:TYR:CE2	1:E:418:ILE:CD1	3.02	0.42
1:E:911:LEU:O	1:E:911:LEU:HD12	2.19	0.42
1:B:890:ASN:OD1	2:K:1755:LYS:HE2	2.19	0.42
2:J:882:LYS:HD3	2:J:898:ARG:CZ	2.49	0.42
1:D:1522:PHE:CD2	1:D:1534:GLU:HB3	2.54	0.42
1:C:1599:MET:HA	1:C:1602:PHE:HD2	1.83	0.42
2:I:1945:ILE:O	2:I:1949:GLN:HB2	2.19	0.42
2:I:1951:ILE:H	2:I:1951:ILE:HD12	1.82	0.42
2:L:1910:VAL:CG1	2:L:1973:ILE:HG21	2.49	0.42
2:G:1734:ILE:O	2:G:1738:VAL:HG23	2.18	0.42
2:I:1960:MET:HB3	2:I:1964:ASP:HB2	2.02	0.42
1:B:1521:SER:HB2	1:B:1577:CYS:SG	2.59	0.42
2:L:1560:PRO:O	2:L:1562:PRO:HD3	2.18	0.42
1:D:963:LEU:HD23	1:D:1023:GLU:HB3	2.00	0.42
2:G:646:SER:O	2:G:649:GLU:HG2	2.19	0.42
1:B:352:ARG:HE	1:B:352:ARG:HB2	1.58	0.42
2:G:1740:ASN:O	2:G:1742:PRO:HD3	2.19	0.42
2:G:1575:ALA:O	2:G:1576:SER:HB3	2.19	0.42
1:B:687:PHE:C	1:B:687:PHE:CD2	2.92	0.42
2:K:1658:MET:HE3	2:K:1658:MET:HB3	1.90	0.42
1:C:27:ARG:H	1:C:27:ARG:HG2	1.40	0.42
1:D:340:LEU:HD23	1:D:340:LEU:O	2.18	0.42
1:D:457:THR:HG22	1:D:464:GLN:HA	2.01	0.42
2:L:342:ASN:HB3	2:L:406:ARG:HD3	2.01	0.42
2:I:1594:ARG:NH1	2:I:1595:VAL:HG13	2.34	0.42
1:C:1685:ALA:HB1	1:C:1686:PRO:CD	2.49	0.42
2:I:1067:LEU:HB3	4:I:2101:FMN:HM82	2.01	0.42
2:I:705:TYR:HA	2:I:709:LEU:HD21	2.01	0.42
2:I:723:ALA:O	2:I:726:GLN:HB2	2.19	0.42
2:H:290:VAL:CG1	2:H:314:LEU:HD23	2.48	0.42
2:G:615:TRP:HB2	2:G:648:ILE:HG13	2.01	0.42
1:D:613:PRO:C	1:D:615:LEU:N	2.72	0.42
2:K:1084:LYS:O	2:K:1088:ASP:CB	2.66	0.42
2:K:595:SER:HB3	2:K:602:PRO:HD3	2.00	0.42
2:G:2031:ASP:HB3	2:G:2033:SER:OG	2.19	0.42
1:A:998:GLY:CA	1:A:1361:VAL:HG13	2.32	0.42
2:H:865:ILE:HG22	2:H:867:LYS:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:942:MET:O	2:H:951:ILE:HG13	2.19	0.42
1:C:1107:GLU:HA	1:C:1108:PRO:HD3	1.72	0.42
1:F:612:ILE:HD12	1:F:907:PHE:CZ	2.38	0.42
2:G:174:GLY:HA3	2:G:518:PRO:HD2	2.02	0.42
2:L:1050:SER:HA	2:L:1064:THR:HG21	2.01	0.42
2:K:743:TRP:CZ2	2:K:757:PHE:HA	2.47	0.42
2:K:1410:GLY:HA2	2:K:1437:GLY:O	2.19	0.42
1:A:741:ASP:CG	1:A:793:ARG:HH11	2.23	0.42
2:G:276:LEU:O	2:G:467:ILE:CD1	2.67	0.42
2:I:472:THR:HG23	2:I:499:VAL:HA	2.02	0.42
1:B:1674:ILE:HG22	1:B:1675:ASN:OD1	2.19	0.42
2:J:914:TRP:CD1	2:J:916:GLY:N	2.87	0.42
2:G:1766:PHE:HB2	2:G:1780:ILE:HG12	2.02	0.42
1:C:756:ILE:HA	1:C:759:ILE:CD1	2.47	0.42
1:C:452:ILE:HA	1:C:452:ILE:HD13	1.88	0.42
2:H:857:VAL:CG1	2:H:876:TRP:CD1	3.02	0.42
1:E:633:THR:O	1:E:637:LEU:HB2	2.20	0.42
1:F:1154:LEU:HD23	1:F:1154:LEU:HA	1.72	0.42
2:H:1380:TYR:HD2	2:H:1429:VAL:HG22	1.81	0.42
2:G:673:GLN:O	2:G:676:LEU:HB3	2.19	0.42
2:G:1383:VAL:CG2	2:G:1428:TYR:HE1	2.30	0.42
2:L:1113:ILE:HG22	2:L:1114:GLU:N	2.33	0.42
2:J:1299:VAL:HG22	2:J:1301:PHE:CG	2.54	0.42
2:I:1241:GLU:HA	2:I:1263:PHE:O	2.19	0.42
1:F:443:LEU:H	1:F:443:LEU:HD12	1.84	0.42
2:K:737:PHE:O	2:K:739:ILE:HG13	2.19	0.42
1:C:1207:TYR:CE2	1:C:1682:LYS:HD2	2.53	0.42
1:D:904:GLY:C	1:D:906:GLN:H	2.23	0.42
2:I:1447:GLN:HB3	2:I:1496:VAL:HG13	2.01	0.42
2:J:2073:ASN:O	2:J:2076:LYS:N	2.51	0.42
1:A:827:ARG:NE	1:F:816:GLU:OE2	2.52	0.42
2:I:1910:VAL:HG13	2:I:1974:GLN:HE22	1.84	0.42
2:L:31:LEU:HD13	2:L:75:LEU:HG	2.00	0.42
2:J:317:TRP:CD1	2:J:454:ASP:CG	2.92	0.42
1:B:968:PRO:HG3	1:B:1376:TYR:CE1	2.54	0.42
2:L:2009:PHE:HD2	2:L:2009:PHE:O	2.02	0.42
2:K:1910:VAL:CG1	2:K:1973:ILE:HG21	2.50	0.42
2:K:1910:VAL:HG13	2:K:1974:GLN:HE22	1.85	0.42
2:H:690:LEU:HD22	2:H:691:THR:N	2.33	0.42
2:H:1321:VAL:HG12	2:H:1322:ALA:N	2.34	0.42
2:H:1314:GLU:O	2:H:1394:VAL:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1400:GLN:HG3	2:L:1448:ARG:HH12	1.83	0.42
1:D:623:PHE:O	1:D:624:GLY:C	2.57	0.42
2:I:1102:LEU:HA	2:I:1102:LEU:HD23	1.83	0.42
2:H:1470:LYS:HA	2:H:1470:LYS:HD3	1.90	0.42
1:C:547:SER:HA	1:C:550:LYS:HB2	2.01	0.42
1:B:427:ARG:O	1:B:430:VAL:HB	2.19	0.42
2:G:511:THR:O	2:G:512:HIS:CD2	2.72	0.42
2:K:1026:LYS:HG2	2:K:1027:PRO:HD2	2.01	0.42
2:K:615:TRP:HB2	2:K:648:ILE:HG13	2.01	0.42
2:L:420:PRO:HG3	2:L:847:TYR:CE1	2.55	0.42
1:D:427:ARG:HD2	1:D:490:VAL:HG12	2.00	0.42
2:G:595:SER:HB3	2:G:602:PRO:HD3	2.00	0.42
2:L:685:VAL:HG13	2:L:686:PRO:HD2	2.01	0.42
2:G:1346:MET:CE	2:G:1617:ARG:HH21	2.33	0.42
2:L:1009:ASN:HD22	2:L:1009:ASN:HA	1.56	0.42
2:I:1289:TYR:CD2	2:I:1370:LEU:HD23	2.52	0.42
2:L:1769:VAL:HG13	2:L:1774:SER:C	2.39	0.42
2:J:2058:VAL:O	2:J:2062:THR:HB	2.19	0.42
2:G:2058:VAL:O	2:G:2062:THR:HB	2.19	0.42
2:I:916:GLY:O	2:I:924:VAL:HG23	2.19	0.42
1:F:1674:ILE:HD12	2:L:1010:ALA:CB	2.48	0.42
1:A:902:ASN:OD1	1:A:905:LEU:HD12	2.19	0.42
2:L:709:LEU:HD23	2:L:709:LEU:N	2.29	0.42
1:D:1051:VAL:HG13	1:D:1057:GLU:O	2.18	0.42
2:K:1114:GLU:HB3	2:K:1169:TYR:CB	2.46	0.42
1:C:893:GLN:OE1	2:J:1751:GLY:HA2	2.19	0.42
1:B:767:HIS:NE2	1:B:771:LEU:HD22	2.33	0.42
2:I:534:GLY:O	2:I:571:ASP:HA	2.19	0.42
1:A:983:GLN:O	1:A:1418:ILE:HD13	2.19	0.42
2:H:1358:THR:O	2:H:1361:ILE:HG13	2.20	0.42
2:G:785:SER:O	2:G:789:TYR:HB2	2.20	0.42
2:I:1337:ASP:CA	2:I:1342:PHE:HD1	2.33	0.42
2:K:1886:VAL:CG1	2:K:1900:LEU:HD11	2.49	0.42
2:I:1886:VAL:CG1	2:I:1900:LEU:HD11	2.50	0.42
1:A:45:VAL:HB	2:G:1692:TYR:HD2	1.84	0.42
2:H:378:ILE:O	2:H:378:ILE:HG22	2.19	0.42
1:A:1369:LEU:HD11	1:A:1642:LEU:HD21	2.00	0.42
1:E:1623:THR:CG2	1:E:1633:GLN:HB2	2.48	0.42
1:C:746:PHE:CD2	3:C:1901:NAP:H4D	2.54	0.42
1:B:715:ASN:ND2	3:B:1901:NAP:H62A	2.18	0.42
1:A:626:TRP:CE3	1:A:898:PHE:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1554:LEU:HD23	1:D:1606:VAL:HG12	2.00	0.42
2:J:433:LEU:HA	2:J:434:PRO:HD3	1.81	0.42
2:I:1653:LEU:HD21	2:I:1667:VAL:HG13	2.01	0.42
1:B:336:PHE:HA	1:B:339:GLN:HB2	2.01	0.42
1:D:1160:VAL:HB	1:D:1352:MET:HE1	2.00	0.42
2:K:1309:PHE:N	2:K:1309:PHE:CD1	2.87	0.42
2:L:196:PHE:CD1	2:L:266:LYS:HB3	2.54	0.42
2:I:611:THR:HG21	2:I:817:MET:CE	2.49	0.42
2:J:776:LEU:HG	2:J:807:PHE:CD2	2.53	0.42
2:K:887:ASP:O	2:K:888:ARG:C	2.57	0.42
2:H:1359:LYS:O	2:H:1362:PHE:HD1	2.02	0.42
1:A:1599:MET:HA	1:A:1602:PHE:HD2	1.85	0.42
2:G:416:GLN:C	2:G:418:ARG:H	2.22	0.42
1:B:1394:PRO:HB3	1:B:1627:PHE:CE2	2.54	0.42
2:J:1389:LEU:N	2:J:1389:LEU:HD23	2.34	0.42
2:K:60:THR:HG22	2:K:62:GLU:H	1.84	0.42
1:B:1060:ASP:HB2	1:B:1063:ASP:OD2	2.19	0.42
1:D:751:GLU:OE1	1:D:770:MET:HE1	2.20	0.42
2:I:226:ASP:OD2	2:I:229:GLN:HB2	2.19	0.42
2:H:173:PHE:CE2	2:H:516:PHE:HB2	2.53	0.42
2:I:416:GLN:HE22	2:I:425:LYS:H	1.67	0.42
1:A:363:GLU:O	1:A:366:LYS:HB2	2.19	0.42
1:E:1527:THR:OG1	1:E:1530:ASN:HB3	2.20	0.42
2:G:1639:MET:HE3	2:G:1639:MET:HB3	1.86	0.42
1:C:1080:LEU:HA	1:C:1080:LEU:HD23	1.84	0.42
1:E:1321:MET:HB3	1:E:1321:MET:HE2	1.87	0.42
1:D:577:LEU:HB2	1:D:579:MET:HG3	2.00	0.42
2:H:613:VAL:HG12	2:H:614:PRO:HD3	1.99	0.42
4:L:2101:FMN:H1'2	4:L:2101:FMN:H9	1.86	0.42
2:L:601:PRO:HA	2:L:602:PRO:HD3	1.79	0.42
1:E:427:ARG:O	1:E:430:VAL:HB	2.19	0.42
1:D:430:VAL:HG12	1:D:434:ILE:HD11	2.00	0.42
2:G:601:PRO:HA	2:G:602:PRO:HD3	1.85	0.42
2:I:937:ARG:NE	2:I:941:LEU:CD1	2.82	0.42
1:D:633:THR:O	1:D:637:LEU:HB2	2.19	0.42
2:L:174:GLY:HA3	2:L:518:PRO:HD2	2.02	0.42
2:H:828:ALA:O	2:H:832:ILE:HG13	2.19	0.42
1:F:631:LYS:O	1:F:635:ILE:HG22	2.19	0.42
1:F:883:LEU:HD23	1:F:883:LEU:N	2.33	0.42
2:J:929:MET:HE1	2:J:934:VAL:HA	2.00	0.42
1:E:881:LEU:O	1:E:884:MET:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:796:TRP:CG	2:L:797:SER:N	2.87	0.42
2:I:41:LEU:HD13	2:I:100:GLU:HB3	2.02	0.42
2:H:1442:TYR:CG	2:H:1499:LYS:O	2.73	0.42
2:K:1436:ARG:NH2	2:K:1602:LEU:HD11	2.34	0.42
2:G:765:TYR:CD2	2:G:805:MET:HG2	2.54	0.42
2:K:605:VAL:O	2:K:628:ILE:HA	2.20	0.42
2:G:290:VAL:CG1	2:G:314:LEU:HD23	2.48	0.42
2:J:472:THR:CG2	2:J:499:VAL:HG22	2.50	0.42
2:J:790:PRO:HA	2:J:795:SER:OG	2.20	0.42
2:H:743:TRP:CD1	2:H:761:ILE:HD11	2.54	0.42
2:K:1939:LEU:O	2:K:1943:LEU:HG	2.20	0.42
2:H:1764:MET:O	2:H:1780:ILE:HG13	2.19	0.42
1:E:539:THR:HA	1:E:542:GLN:HE21	1.85	0.42
2:I:506:VAL:O	2:I:506:VAL:CG1	2.61	0.42
1:F:1157:ASP:O	1:F:1159:LEU:HD12	2.19	0.42
2:J:718:PRO:HG2	2:J:741:LEU:CD1	2.49	0.42
2:H:80:ILE:HG12	2:H:105:ILE:HG22	2.01	0.42
1:E:1162:GLY:O	1:E:1354:SER:HA	2.19	0.42
2:L:48:LEU:HD11	2:L:101:VAL:HG11	2.00	0.42
1:C:1494:TRP:CG	1:C:1505:GLY:HA3	2.53	0.42
2:G:1236:LEU:HD12	2:G:1242:ILE:HA	2.02	0.42
1:A:655:ALA:CB	1:A:742:TYR:HB2	2.49	0.42
2:H:1236:LEU:HD12	2:H:1241:GLU:O	2.19	0.42
2:L:219:LYS:HB2	2:L:220:GLN:NE2	2.34	0.42
1:C:1480:ARG:HH21	1:F:1488:SER:HB2	1.85	0.42
2:J:1323:ASP:C	2:J:1583:VAL:HG11	2.39	0.42
1:F:336:PHE:HA	1:F:339:GLN:HB2	2.02	0.42
2:J:573:VAL:O	2:J:577:GLY:HA3	2.20	0.42
1:B:546:ARG:HH11	1:B:631:LYS:NZ	2.14	0.42
2:J:200:LEU:H	2:J:200:LEU:HD23	1.84	0.42
1:E:1129:ILE:HG22	1:E:1139:THR:O	2.19	0.42
2:K:1481:ILE:HG13	2:K:1481:ILE:O	2.19	0.42
2:I:872:GLY:HA2	2:I:909:ASP:O	2.20	0.42
2:K:1948:MET:HG2	2:K:1993:PHE:CZ	2.55	0.42
1:B:93:GLU:HA	1:B:94:PRO:HD3	1.82	0.42
2:I:1248:GLU:OE2	2:I:1250:ARG:HG2	2.19	0.42
2:H:1520:LYS:HD2	2:H:1520:LYS:N	2.34	0.42
2:G:1981:GLU:O	2:G:1984:PRO:HG3	2.20	0.42
2:K:1911:THR:HG21	2:K:1977:ARG:HB2	2.01	0.42
2:J:1248:GLU:OE2	2:J:1250:ARG:HG2	2.20	0.42
2:G:1389:LEU:N	2:G:1389:LEU:HD23	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:594:MET:SD	2:K:809:GLY:HA3	2.59	0.42
2:L:980:LEU:HB2	2:L:996:ILE:CD1	2.49	0.42
1:B:662:ALA:HA	1:B:694:TYR:OH	2.20	0.42
1:A:1495:ARG:O	1:A:1496:ARG:HB3	2.18	0.42
2:I:1911:THR:HG21	2:I:1977:ARG:HB2	2.02	0.42
1:E:1647:ASP:C	1:E:1649:ALA:N	2.72	0.42
1:D:1011:ARG:NH1	1:D:1012:TRP:HA	2.34	0.42
2:K:1835:GLY:HA3	2:K:1839:GLY:C	2.40	0.42
1:C:848:ARG:HG2	1:C:871:PHE:O	2.19	0.42
1:A:49:PRO:HG2	2:G:1810:LEU:HD21	2.02	0.42
1:B:337:LYS:O	1:B:341:GLU:HG2	2.20	0.42
1:B:1167:GLY:O	1:B:1172:ARG:NH1	2.53	0.42
1:D:1527:THR:OG1	1:D:1530:ASN:HB3	2.19	0.42
2:I:763:LEU:HD12	2:I:763:LEU:HA	1.88	0.42
1:C:584:ILE:H	1:C:584:ILE:HG12	1.67	0.42
1:D:960:ARG:HH11	1:D:960:ARG:HG3	1.85	0.42
2:G:1104:ASP:N	2:G:1104:ASP:OD1	2.52	0.42
2:G:1106:LYS:HA	2:G:1106:LYS:HD3	1.75	0.42
1:A:1574:LEU:HA	1:A:1574:LEU:HD12	1.86	0.42
2:H:2038:LYS:HA	2:H:2038:LYS:HD3	1.89	0.42
1:E:23:ALA:HA	2:K:2007:SER:O	2.19	0.42
2:J:1291:ARG:HD2	2:J:1297:LYS:HB3	2.02	0.42
1:C:942:VAL:O	2:I:1536:HIS:HB2	2.19	0.42
2:H:1960:MET:HB3	2:H:1964:ASP:HB2	2.02	0.42
2:J:1259:LEU:HD11	2:J:1285:ILE:HG12	2.01	0.42
2:I:1047:LEU:H	2:I:1047:LEU:CD1	2.29	0.42
4:K:2101:FMN:H1'2	4:K:2101:FMN:H9	1.87	0.42
1:B:1104:GLN:HE22	1:D:1106:LEU:HD12	1.84	0.42
1:B:1702:ARG:CG	1:B:1702:ARG:NH1	2.41	0.42
1:C:427:ARG:HG3	1:C:492:ILE:HG12	2.02	0.42
1:B:799:LEU:HD11	1:B:824:LEU:HD12	2.00	0.42
2:J:791:TYR:HD2	2:J:796:TRP:CG	2.37	0.42
2:I:928:ASP:O	2:I:1007:LEU:HD23	2.19	0.42
1:F:533:SER:OG	1:F:612:ILE:HG13	2.19	0.42
2:I:1410:GLY:HA2	2:I:1437:GLY:O	2.19	0.42
2:J:1637:VAL:HG12	2:J:1679:LEU:HD22	2.02	0.42
2:L:791:TYR:HD2	2:L:796:TRP:CG	2.37	0.42
2:K:747:ARG:NH1	2:K:780:SER:O	2.52	0.42
2:I:1299:VAL:HG22	2:I:1301:PHE:CG	2.55	0.42
2:I:1745:LEU:HD12	2:I:1746:THR:N	2.35	0.42
1:F:26:VAL:HG21	2:L:2006:HIS:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:318:ILE:HA	2:I:451:ILE:HD13	2.01	0.42
2:K:208:LEU:HD23	2:K:211:LEU:HD12	2.02	0.42
1:D:681:ILE:HG23	1:D:681:ILE:O	2.19	0.42
2:J:398:LEU:HD23	2:J:398:LEU:HA	1.88	0.42
1:D:452:ILE:HG22	1:D:453:ASP:N	2.34	0.42
2:L:1760:ASN:O	2:L:1764:MET:HG2	2.19	0.42
2:J:912:LYS:HE2	2:J:1028:VAL:O	2.19	0.42
2:J:1044:LYS:HE2	3:J:2102:NAP:H4B	2.02	0.42
2:I:2039:TYR:C	2:I:2039:TYR:CD2	2.93	0.42
2:H:44:GLN:O	2:H:48:LEU:HG	2.20	0.42
2:J:724:ILE:O	2:J:727:VAL:HG23	2.20	0.42
2:G:606:ALA:HB2	2:G:811:MET:CG	2.47	0.42
2:K:347:PRO:HA	2:K:432:PHE:CE1	2.55	0.42
1:D:1183:VAL:HG11	1:D:1187:THR:CG2	2.46	0.42
2:J:1236:LEU:HD21	2:J:1239:ASP:O	2.19	0.42
2:K:578:PRO:HG3	2:K:792:LEU:O	2.20	0.42
2:L:347:PRO:HA	2:L:432:PHE:CE1	2.54	0.42
2:G:950:TRP:CE2	2:G:956:LYS:HG3	2.54	0.42
2:I:666:ASN:N	2:I:667:PRO:HD3	2.34	0.42
2:K:664:TYR:OH	2:K:701:VAL:HG11	2.19	0.42
1:F:626:TRP:CE3	1:F:898:PHE:HB2	2.55	0.42
1:A:853:MET:HG2	1:A:856:ASN:ND2	2.33	0.42
2:G:1309:PHE:N	2:G:1309:PHE:CD1	2.87	0.42
1:A:888:ILE:HA	1:A:891:LEU:HD12	2.02	0.42
1:A:535:TYR:CE1	1:F:580:ASN:HB3	2.55	0.42
2:J:894:GLU:CD	2:J:897:LYS:HD3	2.40	0.42
2:J:1981:GLU:O	2:J:1984:PRO:HG3	2.20	0.42
2:G:204:ILE:CG2	2:G:312:VAL:HG11	2.48	0.42
1:F:1393:VAL:N	1:F:1394:PRO:HD3	2.33	0.42
1:A:1241:LEU:CD2	1:E:1097:LEU:HD12	2.49	0.42
1:A:662:ALA:HA	1:A:694:TYR:OH	2.19	0.42
1:A:667:ALA:O	1:A:671:GLN:HG3	2.19	0.42
1:C:1162:GLY:O	1:C:1354:SER:HA	2.20	0.42
2:J:1096:LYS:HD2	2:J:1100:ARG:NH2	2.34	0.42
1:F:29:ILE:HG13	2:L:1920:TYR:O	2.19	0.42
1:C:751:GLU:OE1	1:C:770:MET:HE1	2.19	0.42
1:D:1592:ALA:O	1:D:1593:ASP:C	2.56	0.42
2:L:1491:ARG:O	2:L:1492:LEU:HD23	2.19	0.42
1:E:848:ARG:HG2	1:E:871:PHE:O	2.20	0.42
1:C:71:ALA:HB3	2:H:371:HIS:HB2	2.02	0.42
2:L:1510:ILE:HA	2:L:1528:VAL:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1071:TYR:CD2	1:F:1071:TYR:C	2.92	0.42
2:G:890:LYS:HB2	2:G:890:LYS:HE3	1.80	0.42
2:J:754:PHE:CD1	2:J:754:PHE:N	2.86	0.42
2:J:1731:GLY:O	2:J:1747:VAL:HG12	2.19	0.42
2:I:1204:VAL:HG22	2:I:1219:VAL:HG22	2.02	0.42
2:I:613:VAL:H	2:I:614:PRO:HD3	1.85	0.42
2:K:673:GLN:O	2:K:676:LEU:HB3	2.20	0.42
2:K:865:ILE:HG21	2:K:867:LYS:HE3	2.02	0.42
2:L:512:HIS:HE1	2:L:566:VAL:HG13	1.84	0.42
2:J:374:GLU:CA	2:J:377:HIS:CD2	2.80	0.42
2:J:717:LYS:HD2	4:J:2101:FMN:O2	2.20	0.42
4:J:2101:FMN:O4'	4:J:2101:FMN:H1'2	2.19	0.42
2:I:917:ARG:NH1	2:I:917:ARG:CG	2.45	0.42
2:K:626:TYR:OH	2:K:1088:ASP:HA	2.19	0.42
2:J:907:ASN:HD21	2:J:917:ARG:HE	1.66	0.42
2:I:174:GLY:HA2	2:I:524:ILE:CG1	2.49	0.42
2:L:501:TRP:CZ2	2:L:524:ILE:HG21	2.54	0.42
1:B:406:ALA:HB2	1:B:439:ARG:HD2	2.00	0.42
2:J:818:THR:HG22	2:J:829:LYS:CB	2.43	0.42
2:K:857:VAL:CG2	2:K:877:LYS:HB2	2.49	0.42
2:G:1499:LYS:CG	2:G:1500:ASN:H	2.25	0.42
1:D:756:ILE:HA	1:D:759:ILE:CD1	2.48	0.42
2:K:1113:ILE:HG23	2:K:1169:TYR:CD2	2.55	0.42
2:I:1915:LEU:HB2	2:I:1935:ALA:HB1	2.00	0.42
2:K:52:PHE:CD2	2:K:79:TYR:HD1	2.37	0.42
2:L:1940:ALA:HA	2:L:1995:THR:HG21	2.01	0.42
2:L:1353:GLY:HA2	2:L:1397:THR:HG21	2.02	0.42
2:G:1175:MET:O	2:G:1192:LEU:HD12	2.20	0.42
2:H:1234:ILE:HG22	2:H:1242:ILE:HG22	2.01	0.42
2:G:1229:VAL:CG1	2:G:1230:LYS:N	2.83	0.42
2:G:36:LEU:HA	2:G:36:LEU:HD12	1.91	0.42
2:J:1456:LEU:HD11	2:J:1543:TYR:CE2	2.48	0.42
2:G:1315:ILE:HA	2:G:1393:ASP:O	2.20	0.42
2:G:1515:LEU:HB2	2:G:1525:VAL:HG21	2.02	0.42
2:K:1328:VAL:HA	2:K:1611:TYR:CE1	2.49	0.42
1:D:620:LYS:HE3	1:D:626:TRP:CZ2	2.55	0.42
2:J:1481:ILE:HD12	2:J:1515:LEU:CD2	2.47	0.42
1:F:1301:VAL:HG22	1:F:1302:CYS:N	2.35	0.42
2:K:1362:PHE:N	2:K:1363:PRO:CD	2.83	0.42
2:G:1332:GLY:C	2:G:1334:ALA:N	2.72	0.42
2:H:1248:GLU:OE2	2:H:1250:ARG:NE	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:204:ILE:CG2	2:I:312:VAL:HG11	2.48	0.42
2:G:1359:LYS:O	2:G:1362:PHE:HD1	2.03	0.42
2:H:1982:ALA:C	2:H:1984:PRO:HD3	2.40	0.42
2:G:317:TRP:CD1	2:G:454:ASP:OD2	2.73	0.42
2:K:2050:ILE:O	2:K:2050:ILE:HG12	2.20	0.42
2:G:283:THR:HG23	2:G:470:TYR:O	2.20	0.42
1:E:1185:PRO:O	1:E:1188:LEU:HB2	2.19	0.42
1:A:1219:GLY:CA	1:A:1272:PRO:HD2	2.49	0.42
2:K:649:GLU:HG3	2:K:650:LYS:N	2.35	0.42
2:J:1762:MET:HA	2:J:1779:LYS:HE2	2.02	0.42
1:E:754:ARG:N	1:E:810:ASN:HB3	2.35	0.42
1:A:916:THR:HA	1:A:919:ARG:HB2	2.00	0.42
2:I:248:VAL:O	2:I:252:LEU:HB2	2.20	0.42
1:C:1525:THR:O	1:C:1526:SER:HB3	2.19	0.42
1:D:885:ALA:HA	1:D:886:PRO:HD3	1.89	0.42
1:C:1232:LEU:HD23	1:C:1232:LEU:HA	1.79	0.42
1:B:914:LEU:O	1:B:917:LYS:HB3	2.19	0.42
1:E:1232:LEU:HD23	1:E:1253:SER:HB2	2.02	0.42
2:J:990:TYR:N	2:J:991:PRO:CD	2.83	0.42
2:K:248:VAL:O	2:K:252:LEU:HB2	2.19	0.42
2:I:1914:LEU:O	2:I:1931:GLY:HA3	2.20	0.42
1:F:782:LYS:NZ	1:F:786:LYS:HD2	2.34	0.42
2:K:1163:LEU:HD12	2:K:1163:LEU:HA	1.78	0.42
1:F:999:LEU:HA	1:F:999:LEU:HD23	1.74	0.42
2:G:704:GLU:OE1	2:G:704:GLU:HA	2.19	0.42
2:L:754:PHE:CD1	2:L:754:PHE:N	2.88	0.42
1:E:711:VAL:HG12	1:E:712:VAL:H	1.84	0.42
2:J:560:ASP:HB3	2:J:565:ALA:HB1	2.00	0.42
2:H:1400:GLN:HG3	2:H:1448:ARG:HH12	1.85	0.42
1:D:1654:TYR:CZ	1:D:1658:VAL:HG21	2.54	0.42
2:I:724:ILE:O	2:I:727:VAL:HG23	2.20	0.42
2:K:868:LEU:HD21	2:K:1068:GLN:HG3	2.02	0.42
2:L:465:LEU:HD13	2:L:469:VAL:HB	2.01	0.42
2:L:472:THR:CG2	2:L:499:VAL:HG22	2.50	0.42
2:L:511:THR:CG2	2:L:512:HIS:HD2	2.19	0.42
2:L:866:HIS:HB3	2:L:1068:GLN:O	2.19	0.42
2:L:607:GLY:HA2	2:L:612:THR:HG21	2.02	0.42
2:L:615:TRP:O	2:L:618:VAL:HG13	2.20	0.42
2:L:937:ARG:NE	2:L:941:LEU:CD1	2.81	0.42
2:J:595:SER:HB3	2:J:602:PRO:HD3	2.01	0.42
2:L:1178:THR:HG22	2:L:1180:VAL:N	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:409:ASP:HB2	1:A:439:ARG:HH12	1.83	0.42
1:D:1672:GLY:O	1:D:1676:ASN:N	2.52	0.42
2:K:583:THR:HG22	2:K:1115:TYR:HA	2.01	0.42
1:E:960:ARG:HD3	2:K:969:ARG:NH2	2.34	0.42
2:G:1115:TYR:OH	2:G:1173:HIS:HD2	2.02	0.42
2:K:604:MET:HE1	2:K:777:VAL:HG11	2.02	0.42
2:I:1769:VAL:HG13	2:I:1774:SER:C	2.39	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH22	2.32	0.42
2:L:1410:GLY:HA2	2:L:1437:GLY:O	2.19	0.42
2:L:740:ILE:HA	2:L:775:VAL:HB	2.00	0.42
1:B:1674:ILE:HD12	2:H:1010:ALA:CB	2.48	0.42
2:G:1744:GLU:HA	2:G:1799:LEU:HD11	2.02	0.42
1:E:955:VAL:O	2:K:978:SER:N	2.48	0.42
2:J:1646:ASN:HA	2:J:1646:ASN:HD22	1.69	0.42
2:H:571:ASP:HB3	2:H:574:LYS:HB2	2.02	0.42
2:J:2010:LEU:O	2:J:2014:VAL:HG23	2.19	0.42
2:I:1725:HIS:CD2	2:I:1854:GLU:HB2	2.54	0.42
1:E:767:HIS:NE2	1:E:771:LEU:HD22	2.35	0.42
1:E:422:LEU:HD13	1:E:429:ILE:HG23	2.02	0.42
1:F:1157:ASP:O	1:F:1327:ALA:HB3	2.19	0.42
2:G:1084:LYS:O	2:G:1088:ASP:CB	2.65	0.42
2:H:1871:VAL:HG21	2:H:2004:PRO:HD3	2.02	0.42
2:H:578:PRO:HG3	2:H:792:LEU:O	2.20	0.42
1:E:859:VAL:HG12	1:E:859:VAL:O	2.19	0.42
1:F:422:LEU:HD13	1:F:429:ILE:HG23	2.02	0.42
2:G:1383:VAL:HA	2:G:1384:PRO:HD3	1.90	0.42
2:K:1455:GLN:HB2	2:K:1551:ILE:CG1	2.50	0.42
1:E:22:PHE:CE1	2:K:1867:MET:HG3	2.48	0.42
2:I:1318:ALA:HB2	2:I:1391:VAL:HG11	2.00	0.42
2:L:578:PRO:HG3	2:L:792:LEU:O	2.18	0.42
2:K:1083:ILE:HG13	2:K:1083:ILE:H	1.51	0.42
1:C:852:LEU:O	1:C:852:LEU:HD23	2.20	0.42
1:A:1488:SER:O	1:E:1480:ARG:NH2	2.47	0.42
2:J:1204:VAL:HG22	2:J:1219:VAL:HG22	2.01	0.42
1:D:626:TRP:CZ3	1:D:898:PHE:HB2	2.55	0.42
1:D:898:PHE:CD2	1:D:899:ALA:N	2.88	0.42
1:E:1157:ASP:O	1:E:1327:ALA:HB3	2.20	0.42
2:G:327:PRO:CD	2:H:1338:ARG:HH21	2.33	0.42
1:A:41:THR:HA	2:G:1689:VAL:HB	2.02	0.42
2:L:202:THR:O	2:L:205:ALA:HB3	2.19	0.42
2:G:863:GLU:HA	2:G:864:PRO:HD3	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:PHE:CE1	1:C:451:HIS:NE2	2.87	0.42
1:B:526:MET:CE	1:B:615:LEU:HG	2.50	0.42
1:B:526:MET:HE3	1:B:615:LEU:HG	2.01	0.42
2:H:541:LEU:HG	2:H:552:VAL:HG11	2.02	0.42
2:I:819:ALA:HA	2:I:1081:GLU:O	2.20	0.42
1:D:484:PRO:HA	1:D:485:PRO:HD3	1.77	0.42
2:I:646:SER:O	2:I:649:GLU:HG2	2.20	0.42
2:L:835:ALA:HB3	2:L:1073:ALA:HB1	2.00	0.42
2:I:1618:SER:O	2:I:1621:GLU:HB2	2.19	0.42
1:C:623:PHE:O	1:C:624:GLY:C	2.58	0.42
2:I:838:VAL:HG12	2:I:839:ASP:N	2.35	0.42
2:J:248:VAL:O	2:J:252:LEU:HB2	2.19	0.42
1:D:1232:LEU:HA	1:D:1232:LEU:HD23	1.72	0.42
2:I:2020:PHE:O	2:I:2024:LYS:HG2	2.20	0.42
1:E:1060:ASP:HB2	1:E:1063:ASP:OD2	2.19	0.42
1:D:447:PHE:CE1	1:D:451:HIS:NE2	2.88	0.42
2:G:162:ALA:CA	2:G:167:VAL:HG22	2.48	0.42
2:L:608:MET:HA	4:L:2101:FMN:C5A	2.49	0.42
2:K:2052:LYS:HG2	2:K:2052:LYS:H	1.38	0.42
1:D:527:ALA:HA	1:D:613:PRO:HB3	2.01	0.42
2:I:501:TRP:CD1	2:I:501:TRP:C	2.94	0.42
1:B:833:TRP:HH2	1:B:839:ILE:HD11	1.83	0.42
1:F:1672:GLY:O	1:F:1676:ASN:N	2.53	0.42
2:K:465:LEU:HD13	2:K:469:VAL:HB	2.01	0.42
2:L:1442:TYR:CG	2:L:1499:LYS:O	2.73	0.42
2:L:1603:PRO:HB2	2:L:1644:LEU:HD21	2.02	0.42
2:I:311:ALA:O	2:I:314:LEU:HB3	2.20	0.42
1:E:868:VAL:HG22	1:E:869:ARG:H	1.84	0.42
2:J:604:MET:CE	2:J:811:MET:HB2	2.48	0.42
2:G:208:LEU:HD23	2:G:211:LEU:HD12	2.02	0.42
1:E:549:TYR:O	1:E:553:ARG:HB3	2.20	0.42
2:K:1766:PHE:HB2	2:K:1780:ILE:HG12	2.02	0.42
2:H:815:ARG:NH2	2:H:1086:ILE:CG2	2.83	0.42
2:L:724:ILE:O	2:L:727:VAL:HG23	2.19	0.42
2:G:790:PRO:HA	2:G:795:SER:OG	2.19	0.42
2:K:186:LEU:HD23	2:K:186:LEU:HA	1.84	0.42
2:K:821:GLU:OE2	2:K:1083:ILE:HG13	2.20	0.42
2:J:521:VAL:HG13	2:J:549:ASN:HB2	2.01	0.42
2:L:220:GLN:O	2:L:222:PRO:HD3	2.19	0.42
1:B:746:PHE:CG	3:B:1901:NAP:H4D	2.54	0.42
2:I:1966:ARG:HG3	2:I:1967:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1446:GLU:HA	1:C:1449:ALA:HB3	2.01	0.42
2:K:258:LEU:HD12	2:K:291:VAL:HG13	2.00	0.42
1:C:1275:THR:HA	1:C:1276:PRO:HD3	1.53	0.42
2:K:1538:ASN:HA	2:K:1539:PRO:HD3	1.87	0.42
1:A:1522:PHE:CD2	1:A:1534:GLU:HB3	2.55	0.42
1:D:1207:TYR:CE2	1:D:1682:LYS:HD2	2.54	0.42
2:I:202:THR:O	2:I:205:ALA:HB3	2.20	0.42
2:L:560:ASP:HB3	2:L:565:ALA:HB1	2.01	0.42
2:G:1751:GLY:O	2:G:1752:PRO:C	2.58	0.42
1:D:902:ASN:C	1:D:904:GLY:H	2.23	0.42
1:A:831:GLU:HG2	1:F:755:GLU:HG2	2.02	0.42
2:L:1022:ARG:HG3	2:L:1022:ARG:H	1.63	0.42
2:I:1945:ILE:HG22	2:I:1946:LEU:N	2.34	0.42
1:E:626:TRP:CD2	1:E:898:PHE:HD1	2.37	0.42
1:B:526:MET:HE1	1:B:614:PHE:HB3	2.01	0.42
2:K:1662:ARG:NH1	2:K:1684:GLU:OE1	2.52	0.42
2:I:1972:ILE:H	2:I:1972:ILE:HG13	1.41	0.42
1:C:71:ALA:CB	2:H:371:HIS:HB2	2.50	0.42
2:H:1238:GLY:O	2:H:1239:ASP:HB2	2.19	0.42
1:A:802:SER:HA	1:A:803:PRO:HD3	1.80	0.42
1:D:46:GLU:HB3	1:D:80:CYS:HA	2.02	0.42
1:B:711:VAL:HG12	1:B:712:VAL:H	1.84	0.42
1:F:1011:ARG:NH1	1:F:1012:TRP:HA	2.35	0.42
1:F:1011:ARG:HH11	1:F:1012:TRP:HA	1.84	0.42
2:I:1160:PHE:O	2:I:1164:ILE:HG13	2.20	0.42
2:H:1726:PHE:CE1	2:H:1857:VAL:HB	2.55	0.42
2:I:835:ALA:HB3	2:I:1073:ALA:HB1	2.00	0.42
1:D:1420:TYR:O	1:D:1424:GLN:HG2	2.20	0.42
1:B:916:THR:HA	1:B:919:ARG:HB2	2.01	0.42
2:J:437:ALA:HA	2:J:438:PRO:HD3	1.81	0.42
2:J:1470:LYS:HD3	2:J:1470:LYS:HA	1.89	0.42
2:G:444:LEU:HA	2:G:444:LEU:HD23	1.75	0.42
2:H:1163:LEU:HD12	2:H:1163:LEU:HA	1.85	0.42
2:J:99:LEU:HA	2:J:99:LEU:HD23	1.92	0.42
1:A:1191:LEU:HA	1:A:1191:LEU:HD23	1.90	0.42
1:D:1184:ASP:OD1	1:D:1185:PRO:HD2	2.19	0.42
1:A:1470:ARG:HA	1:A:1470:ARG:HD3	1.83	0.42
1:A:1389:ILE:HG13	1:E:1268:SER:CB	2.20	0.42
2:I:609:THR:HG23	4:I:2101:FMN:O4	2.20	0.42
2:H:608:MET:HA	4:H:2101:FMN:C5A	2.50	0.42
2:K:612:THR:CG2	2:K:629:GLU:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:169:ILE:HG22	2:L:279:PHE:CD2	2.55	0.42
2:L:461:PRO:HB3	2:L:483:ASP:O	2.20	0.42
2:L:955:LEU:HD21	2:L:1026:LYS:O	2.20	0.42
1:C:611:THR:HG22	1:C:612:ILE:N	2.35	0.42
2:H:501:TRP:CZ2	2:H:528:THR:CG2	3.03	0.42
2:J:765:TYR:CD2	2:J:805:MET:HG2	2.55	0.42
2:I:938:MET:HE2	2:I:959:THR:HG22	2.02	0.42
2:H:587:GLN:NE2	2:H:1268:GLU:HG2	2.35	0.42
2:I:1919:ASN:HA	2:I:1919:ASN:HD22	1.62	0.42
1:A:960:ARG:HH12	2:G:968:GLU:CD	2.23	0.42
2:J:1340:LYS:CG	2:L:376:ARG:HH21	2.32	0.42
1:D:13:LEU:HD11	2:J:2058:VAL:HG21	2.02	0.42
1:F:902:ASN:OD1	1:F:905:LEU:HD12	2.20	0.42
1:C:1301:VAL:HG23	1:C:1363:MET:HG3	2.00	0.42
2:I:1404:VAL:HA	2:I:1412:MET:O	2.20	0.42
2:L:1454:MET:HE2	2:L:1550:SER:CA	2.41	0.42
2:G:791:TYR:CD2	2:G:796:TRP:CG	3.07	0.42
1:A:1004:PRO:HD3	1:A:1572:TRP:HH2	1.82	0.42
2:G:479:ARG:C	2:G:481:LEU:H	2.23	0.42
1:F:1363:MET:HE3	1:F:1368:ALA:CB	2.49	0.42
2:L:744:THR:HG22	2:L:745:GLY:H	1.84	0.42
2:I:481:LEU:C	2:I:483:ASP:H	2.24	0.42
1:D:965:TYR:HE1	1:D:1669:PHE:CD1	2.38	0.42
2:I:2057:GLU:HA	2:I:2060:ARG:HH12	1.78	0.42
2:L:1939:LEU:O	2:L:1943:LEU:HG	2.19	0.42
2:H:272:PRO:HG2	2:H:300:THR:O	2.20	0.42
1:B:632:LEU:CA	1:B:635:ILE:HG22	2.45	0.42
2:H:1745:LEU:HB3	2:H:1799:LEU:CD2	2.50	0.42
2:I:1706:MET:HE1	2:I:1735:ILE:HG23	2.02	0.42
2:G:723:ALA:O	2:G:726:GLN:HB2	2.20	0.42
2:H:1337:ASP:HB2	2:H:1342:PHE:CD1	2.54	0.42
2:J:664:TYR:OH	2:J:701:VAL:HG11	2.20	0.42
2:H:41:LEU:HD13	2:H:100:GLU:HB3	2.01	0.42
1:C:1052:ASP:O	1:C:1055:THR:O	2.38	0.42
1:E:1160:VAL:C	1:E:1352:MET:HE1	2.40	0.42
2:L:48:LEU:HG	2:L:48:LEU:H	1.51	0.42
2:I:48:LEU:HD11	2:I:101:VAL:HG11	2.02	0.42
2:L:1324:PHE:N	2:L:1583:VAL:HG11	2.35	0.42
1:A:566:PHE:HE1	1:F:552:ILE:HD11	1.85	0.42
2:H:129:ILE:HG21	2:H:132:LYS:HD2	2.01	0.42
1:D:930:GLN:H	1:D:930:GLN:HG2	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:664:TYR:C	2:K:666:ASN:H	2.23	0.42
2:G:1400:GLN:HG3	2:G:1448:ARG:NH1	2.32	0.42
2:I:790:PRO:HA	2:I:795:SER:OG	2.20	0.42
2:L:351:LEU:HD22	2:L:352:SER:H	1.85	0.42
2:L:1537:GLY:O	2:L:1539:PRO:HD3	2.19	0.42
2:H:1515:LEU:CB	2:H:1525:VAL:HG21	2.50	0.42
2:I:827:GLN:O	2:I:830:GLN:HB3	2.20	0.42
2:H:1207:THR:HB	2:H:1216:VAL:HB	2.02	0.42
1:B:1554:LEU:HD23	1:B:1606:VAL:HG12	2.02	0.42
1:D:983:GLN:HB3	1:D:1418:ILE:HG21	2.02	0.42
2:K:155:ASP:OD1	2:K:155:ASP:N	2.53	0.42
1:E:902:ASN:O	1:E:904:GLY:N	2.52	0.42
2:L:700:GLU:HA	2:L:703:ASN:HB2	2.02	0.42
2:L:1520:LYS:HD2	2:L:1520:LYS:N	2.35	0.42
2:I:196:PHE:N	2:I:196:PHE:HD2	2.18	0.42
1:B:869:ARG:HE	1:B:869:ARG:HB2	1.64	0.42
2:H:2053:GLU:HG3	2:H:2053:GLU:H	1.67	0.42
1:A:21:GLN:HE22	2:G:1841:TYR:HE1	1.68	0.42
2:J:1472:TRP:CE2	2:J:1540:VAL:HG22	2.55	0.42
2:H:690:LEU:HB2	2:H:711:ILE:HG21	2.02	0.42
1:E:916:THR:HA	1:E:919:ARG:HB2	2.02	0.42
1:F:363:GLU:O	1:F:366:LYS:HB2	2.20	0.42
2:G:1335:PHE:CZ	2:G:1629:ILE:HD13	2.55	0.42
2:L:1378:ASN:HD22	2:L:1431:SER:CB	2.33	0.42
1:C:1237:LYS:HB2	1:F:1236:TYR:O	2.20	0.42
2:L:60:THR:HG22	2:L:62:GLU:H	1.84	0.42
2:G:1343:PHE:CE2	2:G:1388:PRO:HD2	2.55	0.42
2:K:1057:TYR:C	2:K:1059:GLN:H	2.23	0.42
2:J:1257:VAL:HA	2:J:1258:PRO:HD3	1.81	0.42
1:D:1080:LEU:HA	1:D:1080:LEU:HD23	1.85	0.42
1:B:1574:LEU:HD12	1:B:1574:LEU:HA	1.83	0.42
1:E:1071:TYR:C	1:E:1071:TYR:CD2	2.93	0.42
1:C:1651:TYR:CE2	1:C:1655:CYS:SG	3.13	0.42
1:C:1589:ASN:ND2	1:C:1589:ASN:C	2.74	0.42
2:J:1783:GLU:CD	2:J:1783:GLU:H	2.24	0.42
1:B:27:ARG:H	1:B:27:ARG:HG2	1.38	0.42
2:L:122:ILE:HD13	2:L:122:ILE:HA	1.94	0.42
2:L:248:VAL:O	2:L:252:LEU:HB2	2.20	0.42
2:G:1057:TYR:C	2:G:1059:GLN:H	2.23	0.42
2:G:1743:LYS:HA	2:G:1798:GLY:HA2	2.02	0.42
2:G:1510:ILE:HA	2:G:1528:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:589:PHE:CD1	2:I:1116:PHE:CD2	3.08	0.42
1:B:1682:LYS:HB3	1:D:1389:ILE:HD13	2.01	0.41
1:B:1207:TYR:CE2	1:B:1682:LYS:HD2	2.55	0.41
1:B:397:ARG:NH1	1:B:397:ARG:CG	2.48	0.41
2:H:420:PRO:HG3	2:H:847:TYR:HD1	1.85	0.41
2:L:279:PHE:HB2	2:L:467:ILE:HD12	2.02	0.41
1:A:397:ARG:HH12	1:A:692:THR:HG21	1.85	0.41
2:H:459:LYS:HA	2:H:485:ASP:CG	2.40	0.41
4:J:2101:FMN:H9	4:J:2101:FMN:H1'2	1.81	0.41
2:J:615:TRP:O	2:J:618:VAL:HG13	2.20	0.41
2:I:174:GLY:HA3	2:I:518:PRO:HD2	2.02	0.41
1:F:435:GLN:O	1:F:439:ARG:HG3	2.20	0.41
1:D:686:ARG:NH2	3:D:1901:NAP:O2X	2.53	0.41
1:F:904:GLY:HA2	1:F:906:GLN:CD	2.40	0.41
1:C:1491:ASN:N	1:C:1491:ASN:ND2	2.67	0.41
2:L:1721:ARG:NH2	2:L:1853:ILE:CD1	2.78	0.41
2:J:914:TRP:CZ3	2:J:1033:ALA:HA	2.55	0.41
2:G:211:LEU:HD13	2:G:313:GLU:HG3	2.02	0.41
1:A:569:LEU:O	1:A:573:VAL:HG23	2.20	0.41
2:J:1644:LEU:HB3	2:J:1645:PRO:CD	2.50	0.41
1:B:562:SER:OG	1:E:551:LEU:HD21	2.20	0.41
1:F:654:HIS:O	1:F:741:ASP:HB2	2.20	0.41
1:B:1214:HIS:CD2	1:B:1216:SER:OG	2.65	0.41
2:H:1802:ALA:CB	2:H:1804:GLN:HE22	2.27	0.41
2:L:720:SER:HB3	2:L:723:ALA:HB2	2.02	0.41
2:L:1590:ILE:HG22	2:L:1591:HIS:N	2.35	0.41
2:H:1289:TYR:CB	2:H:1370:LEU:HD23	2.50	0.41
2:G:720:SER:HB3	2:G:723:ALA:HB2	2.02	0.41
2:L:113:PHE:CD1	2:L:113:PHE:N	2.88	0.41
2:H:197:VAL:HG13	2:H:200:LEU:HD21	2.02	0.41
2:G:1847:LEU:N	2:G:1847:LEU:HD12	2.35	0.41
1:E:421:ARG:NH2	1:E:1613:LYS:CB	2.83	0.41
2:K:76:VAL:HG21	2:K:113:PHE:CZ	2.55	0.41
1:F:744:VAL:HG12	1:F:746:PHE:CD1	2.55	0.41
2:H:596:ARG:HD3	2:H:1119:ARG:HG3	2.02	0.41
2:H:1847:LEU:N	2:H:1847:LEU:HD12	2.35	0.41
2:I:698:SER:H	2:I:701:VAL:HG21	1.85	0.41
2:J:220:GLN:O	2:J:222:PRO:HD3	2.20	0.41
2:G:396:ILE:HD12	2:G:396:ILE:N	2.31	0.41
2:G:1337:ASP:HB2	2:G:1342:PHE:CD1	2.55	0.41
2:I:580:LEU:HG	2:I:1098:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:411:PRO:HD2	2:K:414:LEU:HD11	2.01	0.41
2:J:1966:ARG:HG3	2:J:1967:ALA:N	2.35	0.41
2:L:1346:MET:HG3	2:L:1380:TYR:CD1	2.55	0.41
2:K:1022:ARG:H	2:K:1022:ARG:HG3	1.65	0.41
1:D:1160:VAL:HG11	1:D:1337:PRO:HB3	2.01	0.41
2:G:152:LYS:HA	2:G:153:PRO:HD3	1.81	0.41
1:A:1142:LEU:HD12	1:A:1142:LEU:H	1.85	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:HD2	2.02	0.41
2:H:649:GLU:HG3	2:H:650:LYS:N	2.34	0.41
2:L:1723:ASP:O	2:L:1727:ARG:HG3	2.20	0.41
1:F:455:CYS:HA	1:F:456:PRO:HD3	1.84	0.41
2:I:990:TYR:N	2:I:991:PRO:CD	2.82	0.41
2:I:560:ASP:HB3	2:I:565:ALA:HB1	2.01	0.41
1:D:802:SER:HA	1:D:803:PRO:HD3	1.81	0.41
2:G:1777:THR:HG23	2:G:1777:THR:O	2.20	0.41
2:I:754:PHE:N	2:I:754:PHE:CD1	2.86	0.41
1:C:458:GLU:CD	1:C:458:GLU:H	2.22	0.41
2:L:246:ALA:N	2:L:247:PRO:HD2	2.35	0.41
1:E:1082:GLU:HB2	1:E:1085:LEU:HD12	2.02	0.41
2:I:1762:MET:HA	2:I:1779:LYS:HE2	2.01	0.41
1:D:1651:TYR:CE2	1:D:1655:CYS:SG	3.13	0.41
2:I:670:MET:CE	2:I:674:ILE:HD11	2.49	0.41
2:H:512:HIS:HE1	2:H:566:VAL:HG13	1.85	0.41
2:L:635:TYR:CD2	2:L:641:MET:HG3	2.53	0.41
2:L:615:TRP:HB2	2:L:648:ILE:HG13	2.03	0.41
2:J:511:THR:CG2	2:J:512:HIS:HD2	2.19	0.41
1:B:575:ARG:HD3	1:E:534:GLN:O	2.20	0.41
2:H:868:LEU:HD12	2:H:1066:ILE:HD12	2.01	0.41
2:G:1919:ASN:HD22	2:G:1919:ASN:HA	1.57	0.41
2:I:791:TYR:CD2	2:I:796:TRP:CG	3.08	0.41
1:C:998:GLY:CA	1:C:1361:VAL:HG13	2.40	0.41
1:D:905:LEU:C	1:D:907:PHE:H	2.24	0.41
2:I:1301:PHE:HB3	2:I:1364:ARG:HH11	1.83	0.41
1:E:1713:PHE:HA	1:E:1714:PRO:HD3	1.84	0.41
1:F:1562:THR:HB	1:F:1572:TRP:CZ3	2.55	0.41
2:K:1251:THR:CG2	2:K:1292:VAL:HG13	2.49	0.41
2:L:713:HIS:HD2	2:L:740:ILE:HD13	1.81	0.41
2:G:605:VAL:O	2:G:628:ILE:HA	2.20	0.41
1:E:1652:GLU:O	1:E:1656:VAL:HG23	2.20	0.41
2:L:914:TRP:CZ3	2:L:1033:ALA:HA	2.55	0.41
2:K:720:SER:HB3	2:K:723:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:744:THR:HG22	2:H:745:GLY:H	1.84	0.41
2:I:747:ARG:NH2	2:I:757:PHE:CE1	2.88	0.41
2:I:1891:ILE:CD1	2:I:1943:LEU:HB3	2.46	0.41
1:D:1157:ASP:O	1:D:1327:ALA:HB3	2.20	0.41
2:H:1886:VAL:CG1	2:H:1900:LEU:HD11	2.49	0.41
1:E:17:LEU:HD22	2:K:2041:PRO:HB3	2.01	0.41
2:H:2017:PHE:CE2	2:H:2021:LEU:HD11	2.55	0.41
2:K:48:LEU:HD13	2:K:83:VAL:HG22	2.02	0.41
2:K:785:SER:HB2	2:K:1094:HIS:CD2	2.56	0.41
2:H:129:ILE:CG2	2:H:132:LYS:HD2	2.50	0.41
2:L:219:LYS:HB2	2:L:220:GLN:HE21	1.84	0.41
2:J:1551:ILE:CG2	2:J:1552:GLU:HG3	2.47	0.41
2:L:197:VAL:HG13	2:L:200:LEU:HD21	2.01	0.41
1:D:749:ILE:HG13	1:D:769:ILE:HD13	2.02	0.41
2:L:1305:LEU:CD1	2:L:1305:LEU:H	2.25	0.41
2:J:193:TYR:HD1	2:J:263:ILE:HD13	1.82	0.41
2:H:95:HIS:CB	2:H:96:PRO:HD3	2.50	0.41
2:G:655:GLY:HA3	2:G:1272:ALA:HB2	2.01	0.41
2:H:1309:PHE:N	2:H:1309:PHE:CD1	2.87	0.41
2:J:1807:GLN:HB3	2:J:1860:VAL:CG1	2.49	0.41
2:J:731:ALA:HB1	2:J:771:CYS:SG	2.61	0.41
1:D:88:ILE:HG21	2:J:1821:MET:HE1	2.01	0.41
1:F:968:PRO:CD	1:F:1374:PRO:HB3	2.50	0.41
1:F:1129:ILE:HG22	1:F:1139:THR:O	2.20	0.41
1:A:1419:LYS:HA	1:A:1422:ARG:HB2	2.02	0.41
1:D:1369:LEU:HD11	1:D:1642:LEU:HD21	2.02	0.41
2:G:1982:ALA:C	2:G:1984:PRO:HD3	2.40	0.41
2:G:1755:LYS:HG2	2:G:1755:LYS:H	1.71	0.41
1:C:358:PHE:HB2	1:D:358:PHE:HB2	2.02	0.41
1:B:358:PHE:CD2	1:B:359:VAL:N	2.88	0.41
1:B:1414:PRO:HG2	1:D:1473:HIS:CD2	2.54	0.41
2:H:52:PHE:O	2:H:55:THR:HB	2.20	0.41
2:K:1496:VAL:HG21	2:K:1504:TYR:CD2	2.55	0.41
2:G:1160:PHE:O	2:G:1164:ILE:HG13	2.20	0.41
2:H:437:ALA:HA	2:H:438:PRO:HD3	1.81	0.41
2:H:1447:GLN:HB3	2:H:1496:VAL:HG13	2.02	0.41
2:K:1590:ILE:O	2:K:1597:SER:HB3	2.20	0.41
1:E:682:VAL:HG11	1:E:695:TYR:CE2	2.54	0.41
1:A:1296:GLN:HE21	1:E:1296:GLN:HG2	1.85	0.41
1:A:388:GLU:HA	1:A:389:PRO:HD3	1.95	0.41
2:G:155:ASP:N	2:G:155:ASP:OD1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:704:GLU:HA	2:J:704:GLU:OE1	2.19	0.41
2:I:673:GLN:O	2:I:676:LEU:HB3	2.21	0.41
2:K:609:THR:HG22	2:K:633:GLY:CA	2.49	0.41
2:K:641:MET:CE	2:K:676:LEU:HD12	2.50	0.41
2:I:626:TYR:OH	2:I:1088:ASP:HA	2.20	0.41
1:D:526:MET:HE3	1:D:614:PHE:HB2	2.01	0.41
1:E:532:ILE:HD11	1:E:866:LEU:O	2.21	0.41
2:L:938:MET:CE	2:L:959:THR:HA	2.50	0.41
2:K:297:THR:HG22	2:K:298:ALA:N	2.34	0.41
2:H:1181:PHE:HE1	2:H:1191:PRO:HD2	1.84	0.41
2:J:1061:VAL:HG11	2:J:1066:ILE:HD11	1.99	0.41
2:K:747:ARG:HH11	2:K:780:SER:CB	2.26	0.41
1:F:13:LEU:CD1	2:L:2058:VAL:HG21	2.50	0.41
2:L:2063:GLY:O	2:L:2065:PRO:HD3	2.21	0.41
2:J:1939:LEU:O	2:J:1943:LEU:HG	2.20	0.41
1:F:1565:PRO:HG3	1:F:1572:TRP:CH2	2.55	0.41
2:K:916:GLY:O	2:K:924:VAL:N	2.46	0.41
2:J:821:GLU:HB2	2:J:1083:ILE:HD11	2.02	0.41
1:D:681:ILE:HG21	1:D:729:ILE:CD1	2.51	0.41
1:A:440:SER:HB3	1:A:481:LEU:CD2	2.45	0.41
2:I:1918:VAL:CG1	2:I:2006:HIS:HB2	2.47	0.41
2:H:388:ASN:ND2	2:H:388:ASN:C	2.71	0.41
2:H:1378:ASN:HB3	2:H:1610:MET:HE3	2.02	0.41
2:H:1851:MET:CE	2:H:2025:ILE:HG12	2.50	0.41
2:H:724:ILE:O	2:H:727:VAL:HG23	2.20	0.41
2:J:720:SER:H	2:J:723:ALA:HB3	1.85	0.41
1:F:11:TYR:HD1	2:L:2030:ILE:CD1	2.34	0.41
2:G:720:SER:H	2:G:723:ALA:HB3	1.85	0.41
2:J:746:GLY:O	2:J:843:TRP:NE1	2.53	0.41
1:C:1057:GLU:HA	1:C:1058:PRO:HD3	1.91	0.41
2:K:189:ILE:HD12	2:K:256:VAL:HG13	2.02	0.41
2:L:271:GLU:H	2:L:274:GLU:CG	2.33	0.41
1:A:1640:LYS:HD2	1:A:1641:TYR:CE1	2.55	0.41
2:G:1241:GLU:HA	2:G:1263:PHE:O	2.20	0.41
2:L:189:ILE:HD12	2:L:256:VAL:HG13	2.02	0.41
2:J:1338:ARG:NH2	2:L:327:PRO:N	2.67	0.41
1:C:1217:GLU:O	1:C:1299:ALA:HB1	2.20	0.41
1:F:448:MET:HA	1:F:448:MET:HE3	2.03	0.41
2:J:351:LEU:HD22	2:J:352:SER:H	1.85	0.41
2:J:349:PRO:O	2:J:392:THR:HA	2.20	0.41
2:I:381:SER:OG	2:I:392:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1751:GLY:O	2:H:1755:LYS:HG2	2.20	0.41
2:G:2009:PHE:O	2:G:2009:PHE:HD2	2.03	0.41
1:B:902:ASN:O	1:B:904:GLY:N	2.51	0.41
2:H:858:LEU:CD2	2:H:864:PRO:HA	2.50	0.41
1:D:1129:ILE:HG22	1:D:1139:THR:O	2.20	0.41
2:K:1753:ARG:O	2:K:1757:ILE:HG12	2.20	0.41
1:B:1696:PHE:HB3	1:D:1402:THR:HG22	2.03	0.41
1:A:1038:HIS:CE1	1:A:1042:LEU:HD23	2.54	0.41
2:L:1588:ASN:HA	2:L:1589:PRO:HD3	1.90	0.41
1:B:1522:PHE:HB2	1:B:1557:PHE:CD1	2.55	0.41
1:D:914:LEU:HD12	1:D:914:LEU:O	2.21	0.41
2:J:155:ASP:N	2:J:155:ASP:OD1	2.54	0.41
1:C:29:ILE:HG12	2:I:1921:ASN:C	2.40	0.41
2:I:1031:VAL:HA	2:I:1032:PRO:HD3	1.70	0.41
1:C:1060:ASP:HB2	1:C:1063:ASP:OD2	2.20	0.41
2:K:545:ILE:HG22	2:K:555:LYS:HD3	2.02	0.41
2:L:646:SER:O	2:L:649:GLU:HG2	2.20	0.41
2:I:1325:VAL:HG13	2:I:1330:ASN:O	2.20	0.41
1:B:801:LEU:HD13	1:B:822:GLU:HG2	2.02	0.41
1:B:34:VAL:O	1:B:38:GLU:HB2	2.20	0.41
2:I:1096:LYS:HD2	2:I:1100:ARG:NH2	2.35	0.41
1:E:1420:TYR:O	1:E:1424:GLN:HG2	2.21	0.41
1:E:681:ILE:HG23	1:E:681:ILE:O	2.20	0.41
1:D:1142:LEU:HD12	1:D:1142:LEU:N	2.35	0.41
1:F:407:ARG:HG3	1:F:407:ARG:H	1.59	0.41
2:G:223:LYS:HB3	2:G:242:TYR:CZ	2.55	0.41
2:K:441:SER:C	2:K:443:TYR:H	2.24	0.41
1:C:1395:ALA:HA	1:C:1396:PRO:HD3	1.83	0.41
1:C:1278:GLY:CA	1:C:1282:THR:HG22	2.49	0.41
2:K:670:MET:CE	2:K:674:ILE:HD11	2.51	0.41
2:K:642:SER:HB3	2:K:676:LEU:HD21	2.02	0.41
2:J:601:PRO:HA	2:J:602:PRO:HD3	1.83	0.41
1:D:612:ILE:HG23	1:D:613:PRO:HD2	2.02	0.41
1:C:612:ILE:CG2	1:C:628:TYR:CD2	2.90	0.41
2:G:636:TYR:CE2	3:G:2102:NAP:H3B	2.55	0.41
1:C:1104:GLN:NE2	1:F:1106:LEU:HD12	2.34	0.41
1:F:636:TYR:CE1	1:F:883:LEU:HD23	2.55	0.41
2:K:117:ASN:CA	2:K:561:ARG:HG3	2.38	0.41
1:A:673:LEU:HD21	1:A:884:MET:CE	2.50	0.41
1:D:881:LEU:HA	1:D:884:MET:CG	2.39	0.41
1:E:1710:GLU:OE1	1:E:1712:LYS:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1280:CYS:HB2	1:F:1626:GLY:HA2	2.02	0.41
2:I:352:SER:HB2	2:I:433:LEU:HD11	2.03	0.41
2:I:479:ARG:C	2:I:481:LEU:H	2.24	0.41
2:H:2015:LYS:HB2	2:H:2016:PRO:CD	2.43	0.41
2:H:606:ALA:HB2	2:H:811:MET:CG	2.49	0.41
2:H:740:ILE:HA	2:H:775:VAL:HB	2.01	0.41
1:A:565:GLN:O	1:A:568:ALA:HB3	2.20	0.41
2:H:1721:ARG:NH1	2:H:1854:GLU:OE2	2.53	0.41
1:D:474:ILE:O	1:D:478:LYS:HG3	2.20	0.41
2:I:1884:CYS:HB3	2:I:1936:LEU:CD1	2.46	0.41
1:C:570:TYR:O	1:C:574:ILE:HG12	2.20	0.41
1:B:21:GLN:HE21	1:B:21:GLN:HB3	1.60	0.41
2:L:1120:ILE:HG13	2:L:1169:TYR:CZ	2.56	0.41
2:I:1456:LEU:CD1	2:I:1543:TYR:HE2	2.28	0.41
2:H:1289:TYR:CD2	2:H:1370:LEU:HD23	2.56	0.41
2:L:76:VAL:HG21	2:L:113:PHE:CZ	2.55	0.41
2:L:1886:VAL:CG1	2:L:1900:LEU:HD11	2.50	0.41
2:J:396:ILE:H	2:J:396:ILE:CD1	2.29	0.41
2:I:220:GLN:O	2:I:222:PRO:HD3	2.20	0.41
2:L:152:LYS:HA	2:L:153:PRO:HD3	1.82	0.41
2:L:154:TYR:CD1	2:L:561:ARG:CZ	3.03	0.41
2:K:616:ASP:OD2	2:K:823:HIS:NE2	2.53	0.41
2:K:223:LYS:HB3	2:K:242:TYR:CZ	2.54	0.41
2:J:1113:ILE:HG22	2:J:1114:GLU:N	2.35	0.41
2:K:521:VAL:HG12	2:K:521:VAL:O	2.20	0.41
2:H:47:GLN:CG	2:I:23:PRO:HD2	2.49	0.41
2:K:357:THR:O	2:K:361:VAL:HG23	2.20	0.41
2:L:535:THR:OG1	2:L:537:VAL:HG23	2.21	0.41
2:L:507:PHE:HA	2:L:508:PRO:HD3	1.90	0.41
1:A:1168:TRP:CE2	1:A:1173:TYR:HE1	2.39	0.41
1:B:963:LEU:CD2	1:B:1023:GLU:HB3	2.50	0.41
2:K:1945:ILE:HG22	2:K:1946:LEU:N	2.34	0.41
2:I:915:PHE:CG	2:I:915:PHE:O	2.73	0.41
2:G:887:ASP:O	2:G:888:ARG:C	2.58	0.41
2:L:819:ALA:HA	2:L:1081:GLU:O	2.21	0.41
2:G:1624:ALA:HB1	2:G:1665:ILE:CD1	2.50	0.41
2:H:1910:VAL:HG11	2:H:1973:ILE:CG2	2.51	0.41
1:C:968:PRO:HD2	1:C:1374:PRO:HB3	2.02	0.41
2:L:1810:LEU:HA	2:L:1810:LEU:HD23	1.84	0.41
1:C:1097:LEU:HD12	1:F:1241:LEU:CD2	2.51	0.41
1:F:1698:ASN:C	1:F:1698:ASN:OD1	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1313:ARG:HG3	2:J:1394:VAL:CG1	2.51	0.41
1:F:1685:ALA:HB1	1:F:1686:PRO:CD	2.50	0.41
1:D:968:PRO:CD	1:D:1374:PRO:HB3	2.50	0.41
2:L:1920:TYR:HD2	2:L:1927:TYR:HE2	1.68	0.41
2:L:1096:LYS:HD2	2:L:1100:ARG:NH2	2.35	0.41
2:H:988:GLU:HA	2:H:989:PRO:HD3	1.75	0.41
1:B:802:SER:HA	1:B:803:PRO:HD3	1.83	0.41
1:B:1395:ALA:HA	1:B:1396:PRO:HD3	1.82	0.41
2:J:545:ILE:HG22	2:J:555:LYS:HD3	2.02	0.41
1:F:1579:GLN:O	1:F:1583:THR:HG23	2.20	0.41
1:C:1577:CYS:HB3	1:C:1620:PHE:CD2	2.55	0.41
2:L:418:ARG:HE	2:L:418:ARG:HB3	1.67	0.41
1:F:27:ARG:H	1:F:27:ARG:HG2	1.36	0.41
2:G:353:ILE:O	2:G:353:ILE:HG22	2.19	0.41
1:E:1574:LEU:HA	1:E:1574:LEU:HD12	1.80	0.41
2:I:1424:LYS:HB2	2:I:1424:LYS:HE3	1.96	0.41
2:I:1346:MET:HE2	2:I:1346:MET:HB3	1.87	0.41
2:K:1914:LEU:O	2:K:1931:GLY:HA3	2.19	0.41
1:B:1546:GLY:O	1:B:1547:ARG:C	2.57	0.41
2:H:618:VAL:CG1	2:H:648:ILE:HD11	2.50	0.41
2:H:472:THR:CG2	2:H:499:VAL:HG22	2.50	0.41
2:K:1678:VAL:O	2:K:1679:LEU:HD23	2.21	0.41
2:H:174:GLY:H	2:H:517:GLY:CA	2.32	0.41
2:H:528:THR:HA	2:H:531:ASN:ND2	2.36	0.41
1:A:632:LEU:O	1:A:633:THR:C	2.59	0.41
2:K:931:TYR:CD2	2:K:966:VAL:HG13	2.56	0.41
2:G:1120:ILE:HD13	2:G:1173:HIS:CE1	2.56	0.41
2:K:857:VAL:HG11	2:K:876:TRP:CD1	2.55	0.41
2:L:1064:THR:CG2	2:L:1065:CYS:N	2.83	0.41
2:H:605:VAL:O	2:H:628:ILE:HA	2.21	0.41
1:F:881:LEU:O	1:F:884:MET:HB2	2.21	0.41
2:I:1769:VAL:HG22	2:I:1775:ILE:CA	2.39	0.41
1:C:741:ASP:CG	1:C:793:ARG:HH11	2.24	0.41
1:C:1363:MET:SD	1:C:1367:LEU:HD13	2.61	0.41
2:I:463:SER:C	2:I:465:LEU:H	2.24	0.41
2:K:1000:TYR:HA	2:K:1001:PRO:HD2	1.72	0.41
1:D:1099:GLU:HA	1:D:1149:LEU:HD23	2.02	0.41
2:L:1706:MET:HE1	2:L:1735:ILE:HG23	2.02	0.41
1:B:1363:MET:HB2	1:B:1363:MET:HE2	1.77	0.41
2:K:1725:HIS:CD2	2:K:1854:GLU:HB2	2.55	0.41
2:H:1940:ALA:HA	2:H:1995:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:788:THR:HG21	2:H:810:CYS:SG	2.60	0.41
2:L:716:PHE:CD1	2:L:727:VAL:HG13	2.56	0.41
2:G:1384:PRO:HB3	2:G:1829:ARG:NH1	2.35	0.41
1:E:21:GLN:HE21	1:E:21:GLN:HB3	1.58	0.41
2:H:265:CYS:SG	2:H:275:LEU:HB2	2.60	0.41
2:G:1175:MET:HE3	2:G:1192:LEU:HD11	2.02	0.41
1:E:448:MET:HE3	1:E:448:MET:HA	2.02	0.41
2:I:664:TYR:OH	2:I:701:VAL:HG11	2.20	0.41
1:D:12:THR:CG2	2:J:2066:LYS:HD3	2.50	0.41
1:E:18:LEU:HD21	2:K:1844:LEU:HD11	2.03	0.41
1:C:1168:TRP:CE2	1:C:1173:TYR:HE1	2.39	0.41
2:G:1342:PHE:CE2	2:G:1391:VAL:HB	2.55	0.41
1:E:1343:PRO:O	1:E:1531:ASP:OD2	2.38	0.41
2:I:821:GLU:OE2	2:I:1083:ILE:HG13	2.21	0.41
2:G:349:PRO:O	2:G:392:THR:HA	2.20	0.41
2:L:1517:LEU:CG	2:L:1523:ILE:HD11	2.49	0.41
2:I:1880:ASN:HB3	2:I:1881:TYR:CE1	2.55	0.41
2:H:1577:ASN:OD1	2:H:1607:THR:HA	2.20	0.41
2:H:1881:TYR:CZ	2:H:2009:PHE:HE1	2.38	0.41
1:F:1127:VAL:HG22	1:F:1142:LEU:HA	2.03	0.41
2:J:1362:PHE:N	2:J:1363:PRO:CD	2.84	0.41
2:L:932:ALA:O	2:L:935:VAL:HG13	2.20	0.41
2:I:740:ILE:HA	2:I:775:VAL:HB	2.02	0.41
2:I:1910:VAL:HG11	2:I:1973:ILE:CG2	2.50	0.41
1:F:2:ARG:CZ	2:L:2078:GLU:OE1	2.68	0.41
2:J:676:LEU:HA	2:J:679:ARG:NH2	2.35	0.41
1:C:679:LYS:HG2	1:C:708:GLN:CB	2.49	0.41
2:H:1749:PHE:CD2	2:H:1758:ARG:HB3	2.55	0.41
2:G:2050:ILE:O	2:G:2050:ILE:HG12	2.20	0.41
1:E:1167:GLY:O	1:E:1172:ARG:NH1	2.54	0.41
1:D:1011:ARG:HH11	1:D:1012:TRP:HA	1.86	0.41
2:J:60:THR:HG22	2:J:62:GLU:HG3	2.01	0.41
1:E:1654:TYR:CZ	1:E:1658:VAL:HG21	2.55	0.41
2:H:1473:PHE:HE1	2:H:1513:VAL:HG21	1.85	0.41
2:J:858:LEU:CD2	2:J:864:PRO:HA	2.51	0.41
2:L:1848:ALA:HA	2:L:2034:LYS:HD3	2.02	0.41
1:B:1527:THR:OG1	1:B:1530:ASN:HB3	2.20	0.41
1:F:848:ARG:HG2	1:F:871:PHE:O	2.21	0.41
1:C:1704:THR:HG23	1:C:1714:PRO:HG3	2.01	0.41
2:I:163:ALA:HB2	2:I:278:ARG:HE	1.85	0.41
2:K:1149:ALA:HA	2:K:1150:PRO:HD3	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1191:LEU:HD23	1:F:1191:LEU:HA	1.80	0.41
1:E:674:LEU:HD23	1:E:674:LEU:HA	1.92	0.41
1:F:68:TYR:CD2	1:F:68:TYR:C	2.94	0.41
2:G:476:GLN:HG2	2:G:476:GLN:H	1.66	0.41
1:A:4:GLU:HG3	1:A:4:GLU:H	1.50	0.41
1:F:493:PRO:HD2	1:F:517:ARG:O	2.19	0.41
2:K:2020:PHE:O	2:K:2024:LYS:HG2	2.21	0.41
2:L:1241:GLU:HA	2:L:1263:PHE:O	2.20	0.41
2:K:1067:LEU:HB3	4:K:2101:FMN:HM82	2.02	0.41
2:H:2052:LYS:CD	2:H:2074:TRP:HE1	2.24	0.41
2:G:618:VAL:CG1	2:G:648:ILE:HD11	2.51	0.41
1:A:434:ILE:HD11	1:A:490:VAL:HG21	2.01	0.41
2:K:511:THR:C	2:K:512:HIS:CD2	2.93	0.41
1:E:1487:THR:HA	1:E:1491:ASN:ND2	2.35	0.41
2:L:929:MET:CE	2:L:934:VAL:HG22	2.51	0.41
2:K:1616:VAL:HG13	2:K:1635:TYR:OH	2.20	0.41
1:F:1107:GLU:HA	1:F:1108:PRO:HD3	1.73	0.41
2:H:1410:GLY:HA2	2:H:1437:GLY:O	2.21	0.41
1:F:13:LEU:HD21	2:L:2054:TYR:CD2	2.55	0.41
1:B:740:LEU:HD12	1:B:781:ILE:HD13	2.03	0.41
1:C:506:ILE:HD13	1:C:922:ILE:CG2	2.44	0.41
2:L:744:THR:HG22	2:L:745:GLY:N	2.36	0.41
2:L:743:TRP:CZ2	2:L:757:PHE:HA	2.51	0.41
2:J:578:PRO:HG3	2:J:792:LEU:O	2.19	0.41
2:L:1721:ARG:HH21	2:L:1853:ILE:CD1	2.31	0.41
2:K:2044:THR:C	2:K:2046:LYS:H	2.24	0.41
2:J:747:ARG:HH11	2:J:780:SER:CB	2.26	0.41
2:H:534:GLY:O	2:H:571:ASP:HA	2.20	0.41
2:J:1933:LEU:HB3	2:J:1987:VAL:CG1	2.51	0.41
1:D:1157:ASP:O	1:D:1159:LEU:HD12	2.21	0.41
1:A:422:LEU:HD13	1:A:429:ILE:HG12	2.02	0.41
2:H:723:ALA:O	2:H:726:GLN:HB2	2.20	0.41
2:J:723:ALA:O	2:J:726:GLN:HB2	2.20	0.41
2:G:744:THR:HG22	2:G:745:GLY:N	2.35	0.41
2:G:743:TRP:CZ2	2:G:757:PHE:HA	2.50	0.41
2:K:1871:VAL:HG21	2:K:2004:PRO:HD3	2.02	0.41
2:J:1236:LEU:HD12	2:J:1241:GLU:O	2.20	0.41
2:J:1802:ALA:CB	2:J:1804:GLN:HE22	2.31	0.41
2:K:820:LYS:HB3	2:K:1080:ASP:O	2.21	0.41
2:K:815:ARG:NH2	2:K:1086:ILE:CG2	2.83	0.41
2:H:1171:TRP:CG	2:H:1172:ARG:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:882:LYS:HD3	2:H:898:ARG:NH1	2.35	0.41
2:G:521:VAL:O	2:G:521:VAL:HG12	2.20	0.41
2:I:521:VAL:O	2:I:521:VAL:HG12	2.20	0.41
2:L:129:ILE:CG2	2:L:132:LYS:HD2	2.51	0.41
2:G:80:ILE:HG12	2:G:105:ILE:HG22	2.03	0.41
2:G:1351:VAL:CG2	2:G:1584:SER:HA	2.47	0.41
2:J:197:VAL:HG13	2:J:200:LEU:HD21	2.02	0.41
2:K:1207:THR:HB	2:K:1216:VAL:HB	2.03	0.41
1:D:544:ASP:O	1:D:548:VAL:HG23	2.21	0.41
1:F:876:MET:HE3	1:F:876:MET:O	2.21	0.41
2:J:819:ALA:HA	2:J:1081:GLU:O	2.19	0.41
2:K:699:ILE:H	2:K:699:ILE:CD1	2.34	0.41
1:C:382:ILE:HG13	1:C:382:ILE:H	1.65	0.41
1:A:523:VAL:HG11	1:A:641:GLU:CA	2.50	0.41
2:H:1753:ARG:O	2:H:1757:ILE:HG12	2.21	0.41
1:E:1599:MET:HA	1:E:1602:PHE:HD2	1.86	0.41
1:B:968:PRO:HD2	1:B:1374:PRO:HB3	2.03	0.41
1:C:1170:ALA:HB3	1:C:1188:LEU:HD13	2.03	0.41
2:J:1381:ARG:NH1	2:J:1634:SER:HB2	2.36	0.41
1:F:855:ALA:HB1	1:F:919:ARG:HH21	1.84	0.41
1:E:1170:ALA:HB3	1:E:1188:LEU:HD13	2.03	0.41
1:D:450:TYR:CD2	1:D:450:TYR:C	2.93	0.41
2:L:60:THR:HG22	2:L:62:GLU:HG3	2.01	0.41
2:L:1465:ALA:O	2:L:1469:SER:HB3	2.20	0.41
1:C:1404:ALA:HA	1:C:1501:ALA:HB1	2.02	0.41
1:F:42:GLU:OE1	2:L:1688:PRO:HB3	2.20	0.41
1:B:1232:LEU:HD23	1:B:1253:SER:HB2	2.03	0.41
2:G:1096:LYS:HD2	2:G:1100:ARG:NH2	2.35	0.41
1:E:1041:PRO:HA	1:E:1046:PRO:HA	2.03	0.41
1:C:1507:LEU:HA	1:C:1507:LEU:HD23	1.80	0.41
1:B:1277:VAL:HG23	1:D:1277:VAL:HG23	2.03	0.41
1:B:576:ALA:HB1	1:B:584:ILE:HD11	2.03	0.41
2:K:130:THR:HG23	2:K:546:ASP:HB3	2.02	0.41
2:H:399:TYR:CE2	2:H:403:LEU:HD11	2.56	0.41
1:C:580:ASN:OD1	1:C:583:GLN:HG3	2.20	0.41
2:G:246:ALA:N	2:G:247:PRO:HD2	2.36	0.41
1:D:1542:LEU:HD22	1:D:1547:ARG:HD3	2.03	0.41
2:I:1203:TYR:CE2	2:I:1205:GLU:HG3	2.55	0.41
2:J:1261:PHE:HE2	2:J:1285:ILE:HD11	1.85	0.41
2:I:720:SER:HB3	2:I:723:ALA:HB2	2.03	0.41
2:L:310:ARG:HH12	2:L:459:LYS:H	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:608:MET:HE2	2:J:608:MET:HB3	1.54	0.41
2:J:615:TRP:HA	2:J:618:VAL:CG1	2.51	0.41
4:G:2101:FMN:H1'2	4:G:2101:FMN:H9	1.88	0.41
2:K:626:TYR:CE1	2:K:1087:LEU:HB3	2.55	0.41
1:C:427:ARG:O	1:C:430:VAL:HB	2.21	0.41
2:L:1007:LEU:N	2:L:1007:LEU:CD1	2.76	0.41
2:G:938:MET:HE2	2:G:959:THR:HG22	2.01	0.41
2:G:938:MET:CE	2:G:959:THR:HA	2.50	0.41
2:H:636:TYR:CE2	3:H:2102:NAP:H3B	2.56	0.41
2:K:765:TYR:HB2	2:K:805:MET:HE3	2.01	0.41
2:K:440:HIS:CD2	2:K:497:ASP:O	2.61	0.41
1:F:833:TRP:HH2	1:F:839:ILE:HD11	1.86	0.41
2:G:1181:PHE:HE1	2:G:1191:PRO:HD2	1.84	0.41
2:I:764:MET:O	2:I:765:TYR:C	2.59	0.41
2:I:932:ALA:O	2:I:935:VAL:HG13	2.21	0.41
2:L:2058:VAL:O	2:L:2062:THR:HB	2.21	0.41
2:K:818:THR:HA	2:K:829:LYS:HE2	2.01	0.41
2:L:857:VAL:HG11	2:L:876:TRP:CD1	2.56	0.41
1:B:452:ILE:CD1	1:B:470:GLY:HA3	2.40	0.41
1:C:681:ILE:HG21	1:C:729:ILE:CD1	2.51	0.41
2:J:1700:GLN:HG2	2:J:1700:GLN:O	2.20	0.41
2:I:460:ILE:O	2:I:486:ILE:N	2.53	0.41
2:G:1454:MET:HA	2:G:1454:MET:HE2	2.02	0.41
2:G:1231:THR:HG22	2:G:1232:VAL:N	2.35	0.41
1:E:1051:VAL:HG13	1:E:1057:GLU:O	2.21	0.41
2:G:1709:TYR:HE2	2:G:1716:LYS:HE2	1.85	0.41
1:A:452:ILE:HG22	1:A:453:ASP:N	2.35	0.41
2:I:1053:ILE:CD1	2:I:1061:VAL:HG13	2.51	0.41
1:F:1217:GLU:O	1:F:1299:ALA:HB1	2.21	0.41
2:J:912:LYS:NZ	2:J:1044:LYS:O	2.53	0.41
2:J:48:LEU:H	2:J:48:LEU:HG	1.56	0.41
2:K:1847:LEU:HD12	2:K:1847:LEU:N	2.35	0.41
2:H:716:PHE:CD1	2:H:727:VAL:HG13	2.55	0.41
2:J:726:GLN:O	2:J:730:ILE:HG12	2.20	0.41
2:I:152:LYS:HA	2:I:153:PRO:HD3	1.84	0.41
1:F:859:VAL:HG13	1:F:918:LEU:CB	2.51	0.41
1:E:21:GLN:O	2:K:2006:HIS:CD2	2.71	0.41
2:H:1241:GLU:HA	2:H:1263:PHE:O	2.21	0.41
2:L:1847:LEU:N	2:L:1847:LEU:HD12	2.35	0.41
2:L:265:CYS:HA	2:L:275:LEU:HD12	2.03	0.41
2:J:1847:LEU:HD12	2:J:1847:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:VAL:HG21	2:G:2045:ALA:O	2.19	0.41
2:H:186:LEU:HD23	2:H:186:LEU:HA	1.78	0.41
2:L:1481:ILE:HG13	2:L:1481:ILE:O	2.20	0.41
2:G:433:LEU:HA	2:G:434:PRO:HD3	1.86	0.41
1:B:448:MET:HA	1:B:448:MET:CE	2.51	0.41
2:G:1207:THR:HB	2:G:1216:VAL:HB	2.03	0.41
1:B:1162:GLY:O	1:B:1354:SER:HA	2.21	0.41
1:F:1522:PHE:CD2	1:F:1534:GLU:HB3	2.55	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:CE	2.50	0.41
2:L:912:LYS:HB3	2:L:1030:PHE:HA	2.03	0.41
2:K:416:GLN:HA	2:K:419:ILE:HG13	2.03	0.41
2:G:1017:LEU:HD21	2:G:1032:PRO:HB2	2.01	0.41
1:B:522:TYR:O	1:B:526:MET:HG2	2.21	0.41
2:H:317:TRP:CD1	2:H:454:ASP:CG	2.94	0.41
1:E:1127:VAL:HG22	1:E:1142:LEU:HA	2.03	0.41
2:H:329:THR:HG22	2:I:1331:THR:O	2.20	0.41
1:E:679:LYS:HG2	1:E:708:GLN:CB	2.50	0.41
2:L:1057:TYR:C	2:L:1059:GLN:H	2.23	0.41
1:C:1065:LYS:O	1:C:1069:GLU:HB2	2.20	0.41
1:A:1459:GLY:HA2	1:A:1460:PRO:HD3	1.92	0.41
2:J:1621:GLU:OE2	2:J:1629:ILE:HG23	2.21	0.41
1:C:39:LYS:HD3	2:I:1832:THR:HG21	2.03	0.41
1:D:363:GLU:O	1:D:366:LYS:HB2	2.20	0.41
2:H:1102:LEU:HD23	2:H:1102:LEU:HA	1.83	0.41
1:C:1191:LEU:HA	1:C:1191:LEU:HD23	1.89	0.41
1:E:619:LYS:HE3	1:E:619:LYS:HB2	1.84	0.41
1:E:1457:GLU:HG3	1:E:1457:GLU:H	1.48	0.41
2:G:1656:VAL:O	2:G:1656:VAL:HG22	2.21	0.41
1:C:1652:GLU:O	1:C:1656:VAL:HG23	2.21	0.41
1:B:682:VAL:HG11	1:B:695:TYR:CE2	2.56	0.41
2:H:1594:ARG:NH1	2:H:1595:VAL:HG13	2.36	0.41
1:C:1514:ILE:H	1:C:1514:ILE:HG13	1.31	0.41
1:B:1700:GLN:O	1:B:1701:SER:C	2.59	0.41
2:G:749:GLY:HA3	4:G:2101:FMN:HM81	2.02	0.41
1:B:579:MET:CE	1:E:907:PHE:CZ	3.04	0.41
2:J:174:GLY:HA2	2:J:524:ILE:HG12	2.02	0.41
2:I:929:MET:HE1	2:I:934:VAL:HA	2.02	0.41
1:F:637:LEU:HD23	1:F:640:LEU:HD23	2.02	0.41
2:H:791:TYR:HD2	2:H:796:TRP:CG	2.39	0.41
2:I:796:TRP:HH2	2:I:805:MET:HE1	1.81	0.41
2:G:174:GLY:H	2:G:517:GLY:CA	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1871:VAL:CG2	2:J:2004:PRO:HD3	2.51	0.41
2:G:1301:PHE:HB3	2:G:1364:ARG:NH1	2.36	0.41
2:G:762:LEU:HD23	2:G:805:MET:HE1	2.03	0.41
2:G:765:TYR:HB2	2:G:805:MET:HE3	2.03	0.41
2:J:1091:HIS:O	2:J:1094:HIS:HB2	2.20	0.41
1:C:632:LEU:O	1:C:633:THR:C	2.59	0.41
1:F:498:THR:HG22	1:F:508:TYR:HD1	1.86	0.41
2:L:358:ARG:HB2	2:L:389:PHE:CE2	2.55	0.41
2:J:346:THR:HA	2:J:347:PRO:HD3	1.88	0.41
2:K:1692:TYR:O	2:K:1833:PHE:HA	2.21	0.41
2:K:2039:TYR:C	2:K:2039:TYR:CD2	2.94	0.41
2:H:1884:CYS:HB3	2:H:1936:LEU:CD1	2.46	0.41
2:J:186:LEU:HD11	2:J:255:LEU:HD23	2.02	0.41
2:G:1378:ASN:HD22	2:G:1431:SER:CB	2.33	0.41
2:K:1871:VAL:CG1	2:K:1872:GLU:N	2.84	0.41
2:K:2003:VAL:HA	2:K:2004:PRO:HD3	1.92	0.41
2:I:253:ILE:O	2:I:257:GLN:HG3	2.21	0.41
1:A:955:VAL:HG21	2:G:964:ARG:HH21	1.85	0.41
2:H:398:LEU:HA	2:H:398:LEU:HD23	1.91	0.41
2:L:1755:LYS:H	2:L:1755:LYS:HG2	1.69	0.41
2:H:1353:GLY:HA2	2:H:1397:THR:HG21	2.03	0.41
2:G:22:ARG:HD2	2:G:42:HIS:CB	2.50	0.41
1:F:343:ILE:O	1:F:347:LEU:HG	2.21	0.41
2:G:1353:GLY:HA2	2:G:1397:THR:HG21	2.03	0.41
2:K:1515:LEU:CB	2:K:1525:VAL:HG21	2.51	0.41
1:D:1310:PHE:CE1	1:D:1315:SER:HB2	2.56	0.41
2:J:740:ILE:HA	2:J:775:VAL:HB	2.02	0.41
1:C:1343:PRO:O	1:C:1531:ASP:OD2	2.39	0.41
2:G:912:LYS:NZ	2:G:1044:LYS:O	2.53	0.41
2:L:204:ILE:CG2	2:L:312:VAL:HG21	2.51	0.41
1:A:1371:MET:O	1:A:1661:ARG:NH1	2.54	0.41
1:F:963:LEU:CD2	1:F:1023:GLU:HB3	2.51	0.41
2:L:737:PHE:HA	2:L:738:PRO:HD3	1.86	0.41
2:I:775:VAL:HG12	2:I:777:VAL:HG23	2.01	0.41
2:K:976:GLN:HA	2:K:977:PRO:HD3	1.90	0.41
2:J:418:ARG:HB3	2:J:418:ARG:HE	1.70	0.41
1:C:36:LEU:O	1:C:76:ARG:NH2	2.52	0.41
2:J:2008:THR:O	2:J:2011:ARG:HG3	2.21	0.41
2:H:31:LEU:HD13	2:H:75:LEU:HG	2.02	0.41
1:A:1393:VAL:N	1:A:1394:PRO:HD3	2.35	0.41
2:K:1645:PRO:O	2:K:1646:ASN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:352:ARG:O	1:B:356:LYS:HG3	2.20	0.41
2:I:858:LEU:CD2	2:I:864:PRO:HA	2.50	0.41
1:F:959:PRO:HG2	2:L:974:GLU:HG3	2.02	0.41
2:H:1968:HIS:O	2:H:1971:GLU:HB2	2.20	0.41
1:E:388:GLU:HA	1:E:389:PRO:HD3	1.95	0.41
1:D:49:PRO:HB2	2:J:1699:SER:O	2.21	0.41
2:H:536:GLY:HA2	2:H:569:ALA:O	2.21	0.41
2:H:1723:ASP:O	2:H:1727:ARG:HG3	2.21	0.41
2:L:1762:MET:HA	2:L:1779:LYS:HE2	2.01	0.41
2:K:1960:MET:HB3	2:K:1964:ASP:CB	2.51	0.41
2:J:246:ALA:N	2:J:247:PRO:HD2	2.35	0.41
1:A:1293:THR:HG23	1:A:1298:LYS:HB2	2.02	0.41
1:E:879:ASN:HB3	1:E:901:LEU:HD13	2.03	0.41
1:D:1063:ASP:O	1:D:1064:VAL:C	2.57	0.41
2:L:1960:MET:HB3	2:L:1964:ASP:HB2	2.03	0.41
1:C:4:GLU:HG3	1:C:4:GLU:H	1.56	0.41
2:I:1483:LEU:HG	2:I:1483:LEU:H	1.09	0.41
1:A:619:LYS:HB2	1:A:619:LYS:HE3	1.85	0.41
2:K:1106:LYS:HD3	2:K:1106:LYS:HA	1.76	0.41
1:D:1321:MET:HB3	1:D:1321:MET:HE2	1.76	0.41
1:F:674:LEU:HA	1:F:674:LEU:HD23	1.88	0.41
2:J:1163:LEU:HA	2:J:1163:LEU:HD12	1.79	0.41
1:C:662:ALA:HA	1:C:694:TYR:CZ	2.55	0.41
1:A:1463:GLU:O	1:A:1467:LEU:HB2	2.21	0.41
2:I:1229:VAL:CG1	2:I:1230:LYS:N	2.84	0.41
2:J:1594:ARG:NH1	2:J:1595:VAL:HG13	2.36	0.41
1:E:397:ARG:N	1:E:397:ARG:HD3	2.36	0.41
2:I:641:MET:CE	2:I:676:LEU:HD12	2.51	0.41
2:I:609:THR:HG22	2:I:633:GLY:CA	2.51	0.41
2:I:718:PRO:HG2	2:I:741:LEU:HD11	2.03	0.41
2:K:608:MET:O	2:K:609:THR:C	2.59	0.41
2:K:656:ARG:HA	2:K:656:ARG:HD2	1.91	0.41
2:K:717:LYS:HD2	4:K:2101:FMN:O2	2.21	0.41
2:I:168:LYS:H	2:I:511:THR:HB	1.85	0.41
1:C:1546:GLY:O	1:C:1547:ARG:C	2.59	0.41
2:L:314:LEU:O	2:L:318:ILE:HG13	2.21	0.41
2:H:462:ALA:HB3	2:H:483:ASP:H	1.85	0.41
2:H:481:LEU:C	2:H:483:ASP:H	2.25	0.41
2:H:490:LEU:HD23	2:H:493:MET:SD	2.60	0.41
2:L:615:TRP:HA	2:L:618:VAL:CG1	2.50	0.41
1:B:628:TYR:CD1	1:B:629:SER:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1047:LEU:CD1	2:G:1047:LEU:H	2.29	0.41
1:B:1491:ASN:H	1:B:1491:ASN:ND2	2.16	0.41
1:E:612:ILE:HG23	1:E:613:PRO:HD2	2.01	0.41
1:E:530:GLY:O	1:E:611:THR:HG21	2.21	0.41
2:K:172:ILE:HG22	2:K:514:VAL:C	2.42	0.41
2:J:917:ARG:CG	2:J:917:ARG:NH1	2.48	0.41
2:J:931:TYR:CZ	2:J:1008:ILE:HA	2.56	0.41
2:L:928:ASP:C	2:L:1007:LEU:HD23	2.41	0.41
1:A:1107:GLU:CB	1:E:1104:GLN:OE1	2.66	0.41
2:K:1375:HIS:CE1	2:K:1610:MET:SD	3.12	0.41
2:H:501:TRP:CD1	2:H:501:TRP:C	2.94	0.41
2:H:1050:SER:HA	2:H:1064:THR:HG21	2.01	0.41
2:H:912:LYS:NZ	2:H:1044:LYS:O	2.54	0.41
2:G:1346:MET:HB3	2:G:1346:MET:HE3	1.88	0.41
2:G:1616:VAL:HG13	2:G:1635:TYR:OH	2.20	0.41
1:A:526:MET:HE3	1:A:614:PHE:HB2	2.03	0.41
2:K:351:LEU:O	2:K:390:VAL:HA	2.21	0.41
1:F:613:PRO:HD2	1:F:628:TYR:CE2	2.55	0.41
2:H:327:PRO:O	2:I:1338:ARG:NH2	2.40	0.41
2:I:765:TYR:HB2	2:I:805:MET:HE3	2.02	0.41
2:G:931:TYR:CZ	2:G:1008:ILE:HA	2.56	0.41
2:L:1064:THR:HG22	2:L:1065:CYS:H	1.85	0.41
2:J:2009:PHE:O	2:J:2009:PHE:HD2	2.03	0.41
2:H:1604:GLY:O	2:H:1644:LEU:HD22	2.21	0.41
2:G:376:ARG:HH22	2:H:1340:LYS:CE	2.34	0.41
1:C:1371:MET:O	1:C:1661:ARG:NH1	2.54	0.41
2:I:1497:ARG:O	2:I:1505:SER:HB3	2.21	0.41
1:C:20:TYR:CE2	2:I:2062:THR:HG23	2.56	0.41
2:G:796:TRP:CG	2:G:797:SER:N	2.88	0.41
1:A:498:THR:CG2	1:A:858:LEU:HA	2.41	0.41
1:B:777:LEU:CD2	1:B:781:ILE:HD11	2.51	0.41
2:G:297:THR:HG22	2:G:298:ALA:N	2.35	0.41
2:G:251:PRO:CG	2:G:316:PHE:HA	2.48	0.41
2:K:1701:GLU:N	2:K:1704:MET:HE3	2.33	0.41
2:J:479:ARG:C	2:J:481:LEU:H	2.24	0.41
2:I:310:ARG:HH12	2:I:459:LYS:H	1.68	0.41
2:H:916:GLY:O	2:H:924:VAL:HG23	2.20	0.41
2:I:2044:THR:C	2:I:2046:LYS:H	2.24	0.41
1:B:498:THR:HG22	1:B:508:TYR:HD1	1.85	0.41
1:C:632:LEU:CA	1:C:635:ILE:HG22	2.46	0.41
2:L:1991:ARG:HE	2:L:1996:ILE:HG12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1584:GLY:HA2	1:D:1617:ILE:HD12	2.03	0.41
2:J:1764:MET:HB3	2:J:1780:ILE:CG1	2.51	0.41
1:E:632:LEU:CA	1:E:635:ILE:HG22	2.47	0.41
2:H:673:GLN:O	2:H:676:LEU:HB3	2.21	0.41
1:A:392:ASP:HA	1:A:393:PRO:HD2	1.72	0.41
1:F:452:ILE:CD1	1:F:467:LYS:HA	2.51	0.41
2:K:1805:PHE:C	2:K:1808:PRO:HD2	2.41	0.41
1:D:1711:LEU:HA	1:D:1711:LEU:HD23	1.88	0.41
2:H:1299:VAL:HA	2:H:1300:PRO:HD3	1.81	0.41
2:H:2039:TYR:CD2	2:H:2039:TYR:C	2.94	0.41
2:H:1378:ASN:HD22	2:H:1431:SER:CB	2.33	0.41
2:J:716:PHE:HD1	2:J:727:VAL:HG13	1.85	0.41
1:F:1183:VAL:HG11	1:F:1187:THR:CG2	2.44	0.41
1:A:1484:GLU:O	1:A:1487:THR:HB	2.21	0.41
2:K:44:GLN:O	2:K:48:LEU:HG	2.20	0.41
2:K:1455:GLN:HB2	2:K:1551:ILE:HG13	2.03	0.41
1:A:1674:ILE:HG22	1:A:1675:ASN:OD1	2.21	0.41
2:G:821:GLU:HB2	2:G:1083:ILE:HD11	2.02	0.41
2:L:788:THR:HG21	2:L:810:CYS:SG	2.61	0.41
2:K:875:PHE:HE2	2:K:906:LEU:HD23	1.85	0.41
2:L:1238:GLY:O	2:L:1239:ASP:HB2	2.20	0.41
1:C:1623:THR:HG22	1:C:1633:GLN:HB2	2.03	0.41
2:K:1940:ALA:HA	2:K:1995:THR:HG21	2.02	0.41
2:G:1455:GLN:HB2	2:G:1551:ILE:HG13	2.03	0.41
2:J:1940:ALA:HA	2:J:1995:THR:HG21	2.02	0.41
1:E:443:LEU:HD12	1:E:443:LEU:H	1.85	0.41
2:J:1301:PHE:HB3	2:J:1364:ARG:NH1	2.36	0.41
2:H:1383:VAL:CG2	2:H:1428:TYR:HE1	2.33	0.41
2:G:38:PRO:CD	2:G:104:LEU:HD11	2.50	0.41
2:L:253:ILE:O	2:L:257:GLN:HG3	2.21	0.41
2:J:41:LEU:HD13	2:J:100:GLU:HB3	2.02	0.41
2:H:396:ILE:N	2:H:396:ILE:HD12	2.34	0.41
2:J:95:HIS:CB	2:J:96:PRO:HD3	2.49	0.41
2:K:521:VAL:HG13	2:K:549:ASN:HB2	2.03	0.41
1:D:626:TRP:CE3	1:D:898:PHE:HB2	2.56	0.41
2:J:875:PHE:C	2:J:878:GLU:HB2	2.41	0.41
1:C:636:TYR:CE1	1:C:883:LEU:HD23	2.56	0.41
2:G:202:THR:O	2:G:205:ALA:HB3	2.21	0.41
2:K:1028:VAL:HA	2:K:1029:PRO:HD3	1.72	0.41
2:H:350:MET:SD	2:H:392:THR:CG2	3.09	0.41
2:I:2073:ASN:O	2:I:2076:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:858:LEU:CD2	2:G:864:PRO:HA	2.51	0.41
2:L:541:LEU:HG	2:L:552:VAL:HG11	2.02	0.41
1:C:407:ARG:HB3	1:C:447:PHE:CE2	2.55	0.41
2:K:1751:GLY:O	2:K:1752:PRO:C	2.60	0.41
1:F:984:LEU:HD21	1:F:1510:TRP:O	2.21	0.41
2:K:740:ILE:H	2:K:740:ILE:HD12	1.86	0.41
1:F:1078:ILE:HG23	1:F:1352:MET:HE3	2.03	0.41
1:D:902:ASN:O	1:D:904:GLY:N	2.52	0.41
2:K:31:LEU:HD13	2:K:75:LEU:HG	2.02	0.41
1:E:358:PHE:HD2	1:E:359:VAL:N	2.18	0.41
1:A:407:ARG:CZ	1:A:1606:VAL:HG23	2.51	0.41
2:H:737:PHE:HA	2:H:738:PRO:HD3	1.85	0.41
2:I:979:LEU:HD21	2:I:999:ALA:CB	2.51	0.41
1:F:24:MET:HB3	2:L:2043:VAL:HG12	2.02	0.41
1:B:491:SER:O	1:B:493:PRO:HD3	2.21	0.41
2:L:1447:GLN:HB3	2:L:1496:VAL:HG13	2.03	0.41
2:L:1662:ARG:HH11	2:L:1684:GLU:HB3	1.86	0.41
2:K:1969:LEU:HA	2:K:1972:ILE:CD1	2.50	0.41
2:I:283:THR:HG23	2:I:470:TYR:O	2.21	0.41
1:A:1127:VAL:HG22	1:A:1142:LEU:HA	2.03	0.41
2:L:2053:GLU:HG3	2:L:2053:GLU:H	1.68	0.41
1:E:71:ALA:CB	2:J:371:HIS:HB2	2.51	0.41
1:C:914:LEU:O	1:C:914:LEU:HD12	2.20	0.41
1:B:726:VAL:HG21	1:B:780:ALA:CB	2.50	0.41
2:L:1146:LEU:HD11	2:L:1160:PHE:CE2	2.56	0.41
2:I:1969:LEU:HA	2:I:1972:ILE:CD1	2.51	0.41
1:F:1687:TYR:HD2	1:F:1713:PHE:CD1	2.39	0.41
2:L:342:ASN:OD1	2:L:406:ARG:CZ	2.68	0.41
1:D:484:PRO:HG3	1:D:651:GLN:OE1	2.21	0.41
1:D:1185:PRO:O	1:D:1188:LEU:HB2	2.21	0.41
2:K:1378:ASN:HD22	2:K:1431:SER:CB	2.34	0.41
2:H:339:SER:O	2:H:344:GLU:HB2	2.21	0.41
1:B:1065:LYS:O	1:B:1069:GLU:HB2	2.20	0.41
2:I:1057:TYR:C	2:I:1059:GLN:H	2.23	0.41
1:B:1175:VAL:HA	1:B:1176:PRO:HD3	1.80	0.41
2:I:339:SER:O	2:I:344:GLU:HB2	2.21	0.41
2:G:1314:GLU:O	2:G:1394:VAL:HA	2.19	0.41
1:A:751:GLU:OE1	1:A:770:MET:HE1	2.20	0.41
2:K:2038:LYS:HD3	2:K:2038:LYS:HA	1.89	0.41
1:A:1071:TYR:C	1:A:1071:TYR:CD2	2.94	0.41
2:G:200:LEU:HD23	2:G:200:LEU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:381:ASP:O	1:C:384:ALA:HB3	2.21	0.41
1:C:1459:GLY:HA2	1:C:1460:PRO:HD3	1.94	0.41
2:L:910:PHE:O	2:L:1063:ARG:HD3	2.21	0.41
1:C:726:VAL:HG21	1:C:780:ALA:HB3	2.02	0.41
2:L:1740:ASN:O	2:L:1742:PRO:HD3	2.21	0.41
2:I:1257:VAL:HA	2:I:1258:PRO:HD3	1.82	0.41
1:D:1704:THR:HG23	1:D:1714:PRO:HG3	2.02	0.41
2:H:1002:GLU:C	2:H:1004:SER:H	2.24	0.41
1:B:994:VAL:HG21	1:B:1291:TYR:CD1	2.56	0.41
2:H:1406:ASN:OD1	2:H:1406:ASN:N	2.52	0.41
2:I:1783:GLU:CD	2:I:1783:GLU:H	2.24	0.41
2:H:342:ASN:N	2:H:342:ASN:HD22	2.19	0.41
2:H:1810:LEU:HA	2:H:1810:LEU:HD23	1.88	0.41
1:B:1288:ASP:OD2	1:B:1288:ASP:C	2.59	0.41
1:E:390:ALA:O	1:E:713:PRO:HB2	2.20	0.41
2:L:1343:PHE:CE2	2:L:1388:PRO:HD2	2.56	0.41
2:I:856:THR:HA	2:I:865:ILE:O	2.21	0.41
2:L:1047:LEU:CD1	2:L:1047:LEU:H	2.30	0.41
2:J:276:LEU:O	2:J:467:ILE:CD1	2.69	0.41
2:L:595:SER:HB2	2:L:600:VAL:O	2.21	0.41
2:L:1265:TYR:CZ	2:L:1267:PRO:HG3	2.53	0.41
2:J:595:SER:CB	2:J:602:PRO:HG3	2.32	0.41
2:L:1616:VAL:HG13	2:L:1635:TYR:OH	2.21	0.41
2:L:938:MET:HE1	2:L:959:THR:HA	2.03	0.41
1:F:1491:ASN:ND2	1:F:1491:ASN:N	2.69	0.41
1:D:715:ASN:ND2	3:D:1901:NAP:H62A	2.19	0.41
2:K:747:ARG:O	2:K:1070:PRO:HD2	2.20	0.41
1:D:1562:THR:HB	1:D:1572:TRP:CZ3	2.55	0.41
1:E:1562:THR:HB	1:E:1572:TRP:CZ3	2.56	0.41
2:I:472:THR:CG2	2:I:499:VAL:HG22	2.51	0.41
2:H:914:TRP:CH2	2:H:1033:ALA:HA	2.56	0.41
1:B:1686:PRO:HD2	1:B:1687:TYR:CE2	2.56	0.41
2:I:787:ASP:CG	2:I:1075:TYR:HE2	2.25	0.41
1:C:474:ILE:O	1:C:478:LYS:HG3	2.21	0.41
2:K:1709:TYR:HE2	2:K:1716:LYS:HG2	1.86	0.41
2:K:1903:VAL:HG13	2:K:1942:VAL:HG11	2.03	0.41
2:L:1766:PHE:HB2	2:L:1780:ILE:HG12	2.03	0.41
2:H:1706:MET:HE2	2:H:1738:VAL:HG11	2.03	0.41
2:J:186:LEU:HG	2:J:256:VAL:CG2	2.50	0.41
2:L:1289:TYR:OH	2:L:1371:LEU:HA	2.21	0.41
2:L:1406:ASN:HA	2:L:1411:LYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1918:VAL:HG13	2:K:2006:HIS:CB	2.50	0.41
2:H:36:LEU:HA	2:H:36:LEU:HD12	1.92	0.41
1:E:1338:GLY:C	1:E:1340:MET:N	2.74	0.41
2:H:200:LEU:HD23	2:H:200:LEU:H	1.86	0.41
2:I:268:LEU:HB3	2:I:270:ARG:HD3	2.02	0.41
2:K:22:ARG:HD2	2:K:42:HIS:CB	2.51	0.41
2:K:894:GLU:OE2	2:K:897:LYS:HD3	2.21	0.41
2:H:1844:LEU:HD22	2:H:1850:VAL:HG21	2.03	0.41
2:K:137:VAL:O	2:K:141:TYR:HD1	2.04	0.41
2:L:349:PRO:O	2:L:392:THR:HA	2.20	0.41
2:H:228:LEU:O	2:H:232:HIS:CD2	2.71	0.41
2:G:68:GLU:HB3	2:G:69:PRO:CD	2.51	0.41
2:I:1844:LEU:HD22	2:I:1850:VAL:HG21	2.02	0.41
2:H:863:GLU:HA	2:H:864:PRO:HD3	1.82	0.41
1:C:407:ARG:CZ	1:C:1606:VAL:HG23	2.51	0.41
2:K:1966:ARG:HG3	2:K:1967:ALA:N	2.36	0.41
1:B:1554:LEU:HB3	1:B:1586:VAL:HG11	2.03	0.41
2:H:1981:GLU:O	2:H:1984:PRO:HG3	2.21	0.41
2:K:2008:THR:O	2:K:2011:ARG:HG3	2.21	0.41
1:C:962:ASN:CB	2:I:969:ARG:HD2	2.51	0.41
1:E:522:TYR:O	1:E:526:MET:HG2	2.21	0.41
2:I:216:ASP:CB	2:I:321:ARG:HH12	2.34	0.41
1:B:967:PHE:HB3	1:B:968:PRO:HD2	2.02	0.41
1:C:1393:VAL:N	1:C:1394:PRO:HD3	2.36	0.41
2:I:60:THR:HG22	2:I:62:GLU:HG3	2.03	0.41
1:C:1232:LEU:HD23	1:C:1253:SER:HB2	2.01	0.41
1:E:970:LEU:HD21	1:E:1658:VAL:HG11	2.03	0.41
1:E:749:ILE:HA	1:E:750:PRO:HD3	1.89	0.41
1:D:1302:CYS:O	1:D:1362:ILE:HG12	2.21	0.41
2:K:1762:MET:HA	2:K:1779:LYS:HE2	2.02	0.41
2:J:1057:TYR:C	2:J:1059:GLN:H	2.23	0.41
2:I:1343:PHE:CE2	2:I:1388:PRO:HD2	2.56	0.41
2:K:226:ASP:OD2	2:K:229:GLN:HB2	2.20	0.41
1:E:49:PRO:HB2	2:K:1699:SER:O	2.21	0.41
1:E:1698:ASN:C	1:E:1698:ASN:OD1	2.58	0.41
1:E:1698:ASN:HA	1:E:1699:PRO:HD3	1.83	0.41
1:D:1521:SER:HB2	1:D:1577:CYS:SG	2.61	0.41
2:G:946:HIS:CE1	2:G:947:GLU:HG3	2.56	0.41
1:B:1651:TYR:CE2	1:B:1655:CYS:SG	3.14	0.41
2:L:690:LEU:HB2	2:L:711:ILE:HG21	2.03	0.41
2:G:1783:GLU:CD	2:G:1783:GLU:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1698:ASN:C	1:A:1698:ASN:OD1	2.58	0.41
2:K:1104:ASP:OD1	2:K:1104:ASP:N	2.54	0.41
2:J:1782:LYS:H	2:J:1782:LYS:HG2	1.72	0.41
1:D:619:LYS:HE3	1:D:619:LYS:HB2	1.85	0.41
1:D:1440:TYR:O	1:D:1444:GLN:HB2	2.20	0.41
2:H:960:GLY:O	2:H:963:ILE:HB	2.21	0.41
2:I:1050:SER:HA	2:I:1064:THR:HG21	2.02	0.40
2:I:865:ILE:HG22	2:I:867:LYS:HG3	2.04	0.40
2:L:314:LEU:HG	2:L:318:ILE:CD1	2.47	0.40
2:J:297:THR:HG22	2:J:298:ALA:N	2.36	0.40
1:B:579:MET:HE1	1:E:907:PHE:CE1	2.56	0.40
1:E:534:GLN:HA	1:E:610:GLU:O	2.22	0.40
2:I:174:GLY:HA2	2:I:524:ILE:HG12	2.03	0.40
1:E:13:LEU:HG	2:K:2048:PHE:CE1	2.55	0.40
2:H:929:MET:CE	2:H:934:VAL:HG22	2.51	0.40
2:I:1181:PHE:HE1	2:I:1191:PRO:HD2	1.82	0.40
2:K:1048:TRP:NE1	2:K:1049:GLN:HG2	2.33	0.40
2:K:298:ALA:HA	2:K:303:GLU:HG2	2.04	0.40
2:I:938:MET:O	2:I:942:MET:HG3	2.21	0.40
2:H:764:MET:O	2:H:765:TYR:C	2.59	0.40
2:H:1410:GLY:HA2	2:H:1437:GLY:H	1.86	0.40
2:J:1891:ILE:HG22	2:J:1892:SER:N	2.36	0.40
1:A:868:VAL:HG22	1:A:869:ARG:H	1.85	0.40
2:L:1725:HIS:CD2	2:L:1854:GLU:HB2	2.56	0.40
2:L:1903:VAL:HG11	2:L:1943:LEU:HD21	2.03	0.40
1:E:1648:LYS:O	1:E:1652:GLU:HB2	2.20	0.40
2:H:1903:VAL:HG13	2:H:1942:VAL:HG11	2.03	0.40
2:J:1410:GLY:HA2	2:J:1437:GLY:O	2.21	0.40
2:J:1604:GLY:O	2:J:1644:LEU:HD22	2.21	0.40
1:E:452:ILE:CD1	1:E:470:GLY:HA3	2.45	0.40
2:H:1725:HIS:CD2	2:H:1854:GLU:HB2	2.56	0.40
1:A:816:GLU:OE2	1:F:827:ARG:NE	2.53	0.40
2:J:1750:GLY:N	2:J:1754:GLY:HA3	2.36	0.40
2:H:1871:VAL:CG1	2:H:1872:GLU:N	2.84	0.40
2:J:1884:CYS:HB3	2:J:1936:LEU:CD1	2.48	0.40
1:F:1057:GLU:HA	1:F:1058:PRO:HD3	1.88	0.40
2:G:785:SER:CB	2:G:1094:HIS:CD2	3.04	0.40
1:C:1042:LEU:O	1:C:1043:LYS:HB2	2.21	0.40
2:I:950:TRP:NE1	2:I:956:LYS:HD3	2.35	0.40
2:J:1886:VAL:CG1	2:J:1900:LEU:HD11	2.52	0.40
1:A:1162:GLY:O	1:A:1354:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:746:PHE:CG	3:C:1901:NAP:H4D	2.56	0.40
1:D:828:TRP:NE1	1:D:838:THR:HA	2.31	0.40
1:B:506:ILE:HD11	1:B:926:SER:CB	2.51	0.40
1:D:1323:ALA:CB	1:D:1351:PHE:HE2	2.34	0.40
1:F:1446:GLU:HA	1:F:1449:ALA:HB3	2.04	0.40
2:G:351:LEU:HD22	2:G:352:SER:H	1.86	0.40
2:K:331:LEU:CD2	2:K:396:ILE:HG13	2.51	0.40
1:D:27:ARG:NE	2:J:2043:VAL:O	2.53	0.40
2:K:700:GLU:HA	2:K:703:ASN:HB2	2.03	0.40
2:G:700:GLU:HA	2:G:703:ASN:HB2	2.02	0.40
2:H:1624:ALA:CB	2:H:1665:ILE:HD13	2.51	0.40
1:E:526:MET:CE	1:E:614:PHE:HB3	2.51	0.40
2:L:1031:VAL:HA	2:L:1032:PRO:HD3	1.69	0.40
2:G:1972:ILE:HG13	2:G:1972:ILE:H	1.39	0.40
1:C:23:ALA:CA	2:I:2007:SER:O	2.69	0.40
2:H:1974:GLN:HE21	2:H:1977:ARG:HH21	1.69	0.40
2:L:1969:LEU:HA	2:L:1972:ILE:CD1	2.51	0.40
2:I:1960:MET:HB3	2:I:1964:ASP:CB	2.51	0.40
2:L:1762:MET:HE2	2:L:1762:MET:HB3	2.01	0.40
2:K:838:VAL:HG12	2:K:839:ASP:N	2.36	0.40
2:L:540:ILE:HA	2:L:553:GLY:O	2.21	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:CB	2.51	0.40
1:F:1395:ALA:HA	1:F:1396:PRO:HD3	1.81	0.40
2:I:441:SER:C	2:I:443:TYR:H	2.25	0.40
2:H:1106:LYS:HD3	2:H:1106:LYS:HA	1.80	0.40
2:I:2038:LYS:HD3	2:I:2038:LYS:HA	1.88	0.40
1:F:352:ARG:HB2	1:F:352:ARG:HE	1.56	0.40
1:F:1680:VAL:HG12	1:F:1680:VAL:O	2.20	0.40
2:K:536:GLY:HA2	2:K:569:ALA:O	2.22	0.40
2:L:437:ALA:HA	2:L:438:PRO:HD3	1.80	0.40
1:B:1514:ILE:HG13	1:B:1514:ILE:H	1.35	0.40
1:C:1268:SER:OG	1:C:1686:PRO:HD3	2.22	0.40
2:H:652:ILE:O	2:H:654:PRO:HD3	2.22	0.40
2:K:847:TYR:HA	2:K:856:THR:OG1	2.21	0.40
2:K:938:MET:HE1	2:K:959:THR:HA	2.03	0.40
2:L:297:THR:HG22	2:L:298:ALA:N	2.35	0.40
1:E:1102:ILE:H	1:E:1102:ILE:HG13	1.66	0.40
2:L:501:TRP:CZ2	2:L:528:THR:CG2	3.02	0.40
2:J:685:VAL:HG13	2:J:686:PRO:HD2	2.03	0.40
2:K:468:PRO:HA	2:K:479:ARG:HD3	2.03	0.40
2:I:38:PRO:CD	2:I:104:LEU:HD11	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:80:ILE:HG12	2:I:105:ILE:CG2	2.51	0.40
2:G:1299:VAL:HG22	2:G:1301:PHE:CG	2.56	0.40
2:J:208:LEU:HD23	2:J:211:LEU:HD12	2.03	0.40
2:I:351:LEU:O	2:I:390:VAL:HA	2.21	0.40
2:I:433:LEU:HA	2:I:434:PRO:HD3	1.85	0.40
2:J:1406:ASN:HA	2:J:1411:LYS:HA	2.03	0.40
2:H:2010:LEU:O	2:H:2014:VAL:HG23	2.20	0.40
2:K:1760:ASN:O	2:K:1764:MET:HG2	2.21	0.40
2:H:1799:LEU:C	2:H:1801:SER:H	2.23	0.40
2:K:1803:THR:C	2:K:1805:PHE:N	2.74	0.40
1:A:928:ILE:HG12	2:G:1462:GLN:HB2	2.03	0.40
2:H:1299:VAL:HG22	2:H:1301:PHE:CG	2.56	0.40
2:L:1464:LEU:C	2:L:1464:LEU:HD13	2.42	0.40
1:A:11:TYR:CG	2:G:2027:LYS:HG2	2.56	0.40
2:I:1861:PHE:O	2:I:1865:LEU:HG	2.21	0.40
1:A:967:PHE:HB3	1:A:968:PRO:HD2	2.04	0.40
2:J:1236:LEU:HD12	2:J:1242:ILE:HA	2.03	0.40
2:H:268:LEU:HB3	2:H:270:ARG:HD3	2.03	0.40
1:C:502:ALA:CA	1:C:929:ARG:HD3	2.50	0.40
2:G:1455:GLN:HB2	2:G:1551:ILE:CG1	2.51	0.40
2:I:48:LEU:HG	2:I:48:LEU:H	1.51	0.40
2:I:1455:GLN:HB2	2:I:1551:ILE:CG1	2.52	0.40
2:L:1455:GLN:HB2	2:L:1551:ILE:HG13	2.02	0.40
2:L:827:GLN:O	2:L:830:GLN:HB3	2.20	0.40
1:E:18:LEU:HD21	2:K:1844:LEU:CD1	2.51	0.40
2:K:1356:ALA:HB3	2:K:1397:THR:CG2	2.50	0.40
2:J:22:ARG:HD2	2:J:42:HIS:CB	2.50	0.40
2:G:396:ILE:CD1	2:G:396:ILE:H	2.33	0.40
1:E:1310:PHE:CE1	1:E:1315:SER:HB2	2.56	0.40
2:G:1016:PHE:O	2:G:1019:LEU:HB2	2.21	0.40
1:E:11:TYR:HD1	2:K:2030:ILE:CD1	2.34	0.40
2:J:1517:LEU:CD2	2:J:1523:ILE:HD11	2.51	0.40
2:J:1515:LEU:HB2	2:J:1525:VAL:HG21	2.03	0.40
2:K:882:LYS:HD3	2:K:898:ARG:CZ	2.51	0.40
1:D:1494:TRP:CG	1:D:1505:GLY:HA3	2.55	0.40
1:B:1307:PHE:CB	1:B:1357:CYS:HB3	2.51	0.40
2:H:2073:ASN:O	2:H:2076:LYS:N	2.54	0.40
1:F:1303:LEU:HA	1:F:1303:LEU:HD23	1.60	0.40
2:K:535:THR:OG1	2:K:537:VAL:HG23	2.22	0.40
1:C:522:TYR:O	1:C:526:MET:HG2	2.22	0.40
2:J:1250:ARG:CD	2:J:1250:ARG:H	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1554:LEU:HB3	1:A:1586:VAL:HG11	2.04	0.40
2:H:1537:GLY:O	2:H:1539:PRO:HD3	2.21	0.40
2:H:1269:ALA:HB1	2:H:1271:TYR:CZ	2.55	0.40
1:D:1050:TRP:HA	1:D:1050:TRP:HE3	1.86	0.40
1:E:1692:GLN:HG3	1:E:1696:PHE:CE2	2.56	0.40
1:B:1441:LEU:O	1:B:1444:GLN:HB3	2.21	0.40
2:G:819:ALA:HA	2:G:1081:GLU:O	2.20	0.40
1:D:726:VAL:HG21	1:D:780:ALA:HB3	2.03	0.40
1:B:484:PRO:HA	1:B:485:PRO:HD3	1.80	0.40
1:E:857:ASN:HA	1:E:860:ALA:HB2	2.02	0.40
1:C:1198:LEU:HA	1:C:1198:LEU:HD23	1.89	0.40
1:D:1191:LEU:HA	1:D:1191:LEU:HD23	1.82	0.40
2:I:111:ARG:HE	2:I:111:ARG:HB2	1.73	0.40
2:G:1253:GLU:H	2:G:1253:GLU:HG2	1.74	0.40
1:F:835:ASN:N	1:F:835:ASN:OD1	2.54	0.40
2:L:1507:VAL:HG23	2:L:1530:TYR:HE2	1.86	0.40
2:I:656:ARG:CG	2:I:656:ARG:NH1	2.80	0.40
2:I:676:LEU:HA	2:I:679:ARG:NH2	2.36	0.40
2:G:512:HIS:HE1	2:G:566:VAL:HG13	1.86	0.40
2:H:1067:LEU:N	2:H:1067:LEU:HD12	2.36	0.40
2:K:670:MET:HB3	2:K:670:MET:HE2	1.82	0.40
2:H:461:PRO:HB3	2:H:483:ASP:O	2.21	0.40
1:B:1104:GLN:NE2	1:D:1106:LEU:HD12	2.36	0.40
1:B:1148:LEU:HA	1:B:1148:LEU:HD23	1.61	0.40
2:J:512:HIS:HE1	2:J:566:VAL:HG13	1.87	0.40
2:L:937:ARG:CZ	2:L:941:LEU:HD11	2.50	0.40
2:I:917:ARG:NH1	2:I:921:GLY:O	2.55	0.40
2:H:601:PRO:HA	2:H:602:PRO:HD3	1.81	0.40
2:K:582:LYS:HG3	2:K:1110:VAL:CG1	2.51	0.40
1:F:1491:ASN:ND2	1:F:1491:ASN:H	2.19	0.40
2:J:796:TRP:CG	2:J:797:SER:N	2.89	0.40
2:G:931:TYR:CD2	2:G:966:VAL:HG13	2.57	0.40
2:L:854:VAL:HA	2:L:867:LYS:O	2.21	0.40
2:H:2058:VAL:CG1	2:H:2067:ILE:HD12	2.51	0.40
1:D:650:PHE:CE2	1:D:881:LEU:HD22	2.57	0.40
2:L:605:VAL:O	2:L:628:ILE:HA	2.20	0.40
2:G:448:HIS:CD2	2:G:491:VAL:CG1	3.01	0.40
2:G:1891:ILE:HG22	2:G:1892:SER:N	2.35	0.40
2:G:1904:VAL:HG13	2:G:1915:LEU:HD23	2.04	0.40
2:L:876:TRP:HD1	2:L:876:TRP:C	2.21	0.40
2:K:1745:LEU:HD12	2:K:1746:THR:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1851:MET:HE1	2:L:1859:VAL:HG21	2.03	0.40
2:H:1915:LEU:HB2	2:H:1935:ALA:HB1	2.02	0.40
1:E:452:ILE:HA	1:E:452:ILE:HD13	1.91	0.40
2:G:1406:ASN:HA	2:G:1411:LYS:HA	2.02	0.40
1:F:11:TYR:CD1	2:L:2027:LYS:HA	2.56	0.40
2:G:747:ARG:HH11	2:G:780:SER:CB	2.29	0.40
2:G:48:LEU:HD13	2:G:83:VAL:HG22	2.03	0.40
1:B:433:CYS:SG	1:B:473:LEU:HD13	2.61	0.40
2:H:271:GLU:H	2:H:274:GLU:CG	2.34	0.40
2:K:1081:GLU:HG2	2:K:1086:ILE:HG12	2.03	0.40
1:F:574:ILE:HG12	1:F:574:ILE:H	1.72	0.40
2:H:220:GLN:O	2:H:222:PRO:HD3	2.20	0.40
1:A:340:LEU:HD12	1:F:347:LEU:HD12	2.02	0.40
1:A:746:PHE:CD1	1:A:800:PRO:HG3	2.56	0.40
1:E:1303:LEU:HD23	1:E:1303:LEU:HA	1.71	0.40
2:H:1845:VAL:CG2	2:H:1856:LEU:HD22	2.49	0.40
1:A:1514:ILE:HD13	1:A:1545:LEU:CB	2.51	0.40
1:C:18:LEU:HD21	2:I:1844:LEU:CD1	2.51	0.40
2:J:1309:PHE:CD1	2:J:1309:PHE:N	2.89	0.40
2:H:1517:LEU:CD2	2:H:1523:ILE:HD11	2.51	0.40
2:I:616:ASP:OD2	2:I:823:HIS:CE1	2.74	0.40
2:L:1934:ARG:O	2:L:1938:THR:HG23	2.21	0.40
1:C:1405:ARG:HA	1:F:1697:LEU:O	2.21	0.40
2:L:1127:GLU:HA	2:L:1128:PRO:HD3	1.84	0.40
2:K:327:PRO:CD	2:L:1338:ARG:NH2	2.84	0.40
2:G:1624:ALA:HB2	2:G:1665:ILE:HD13	2.03	0.40
2:J:1473:PHE:CE1	2:J:1513:VAL:HG21	2.56	0.40
1:E:904:GLY:HA2	1:E:906:GLN:CD	2.41	0.40
2:G:216:ASP:CB	2:G:321:ARG:HH12	2.34	0.40
2:H:617:PHE:CD1	2:H:822:ALA:CA	3.04	0.40
2:J:416:GLN:C	2:J:418:ARG:H	2.24	0.40
1:A:68:TYR:CD1	2:I:371:HIS:CD2	3.09	0.40
1:B:1414:PRO:HD2	1:D:1473:HIS:CD2	2.57	0.40
1:B:1393:VAL:N	1:B:1394:PRO:HD3	2.36	0.40
2:G:1520:LYS:N	2:G:1520:LYS:HD2	2.36	0.40
2:J:759:GLN:N	2:J:760:PRO:CD	2.85	0.40
1:A:1065:LYS:O	1:A:1069:GLU:HB2	2.21	0.40
2:L:1278:MET:HA	2:L:1281:ARG:HB2	2.03	0.40
2:K:759:GLN:N	2:K:760:PRO:CD	2.83	0.40
2:I:1321:VAL:HG12	2:I:1322:ALA:N	2.36	0.40
2:G:1472:TRP:CD2	2:G:1540:VAL:HG22	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1257:VAL:HA	2:H:1258:PRO:HD3	1.77	0.40
2:G:637:ASN:ND2	2:G:639:GLN:HB3	2.36	0.40
2:J:637:ASN:ND2	2:J:639:GLN:HB3	2.35	0.40
1:B:1536:ASP:O	1:B:1540:GLN:HG3	2.22	0.40
1:A:1475:GLU:O	1:A:1478:ALA:HB3	2.21	0.40
1:B:554:ARG:O	1:B:555:GLN:HG3	2.20	0.40
2:J:690:LEU:HB2	2:J:711:ILE:HG21	2.03	0.40
2:J:1507:VAL:HG23	2:J:1530:TYR:HE2	1.87	0.40
2:J:536:GLY:HA2	2:J:569:ALA:O	2.22	0.40
1:B:50:SER:HB2	1:B:52:THR:HG23	2.02	0.40
2:I:737:PHE:HA	2:I:738:PRO:HD3	1.83	0.40
1:C:1687:TYR:CD2	1:C:1687:TYR:N	2.88	0.40
2:G:1321:VAL:HG12	2:G:1322:ALA:N	2.36	0.40
1:A:93:GLU:HA	1:A:94:PRO:HD3	1.82	0.40
1:A:347:LEU:HD12	1:F:340:LEU:HD12	2.02	0.40
1:B:1514:ILE:CD1	1:B:1545:LEU:HB3	2.51	0.40
1:A:1467:LEU:HD23	1:A:1467:LEU:HA	1.90	0.40
2:I:717:LYS:N	2:I:718:PRO:HD3	2.37	0.40
4:H:2101:FMN:HO2'	4:H:2101:FMN:C10	2.32	0.40
2:K:615:TRP:HA	2:K:618:VAL:CG1	2.52	0.40
1:C:1545:LEU:HA	1:C:1545:LEU:HD23	1.62	0.40
2:L:856:THR:HG23	2:L:866:HIS:NE2	2.36	0.40
2:J:279:PHE:HB2	2:J:467:ILE:HD12	2.02	0.40
2:J:511:THR:O	2:J:512:HIS:CD2	2.75	0.40
2:H:2031:ASP:C	2:H:2033:SER:N	2.74	0.40
2:K:907:ASN:HD21	2:K:917:ARG:HE	1.69	0.40
2:J:501:TRP:CZ2	2:J:528:THR:CG2	3.04	0.40
1:F:1107:GLU:CG	1:F:1108:PRO:HD2	2.40	0.40
2:K:376:ARG:NH2	2:L:1340:LYS:CG	2.85	0.40
2:I:1293:TRP:NE1	2:I:1354:TRP:HZ2	2.18	0.40
2:I:930:THR:O	2:I:934:VAL:HG23	2.21	0.40
1:F:632:LEU:O	1:F:633:THR:C	2.59	0.40
2:I:1410:GLY:HA2	2:I:1437:GLY:H	1.86	0.40
2:L:1769:VAL:HG22	2:L:1775:ILE:HG23	2.03	0.40
1:D:21:GLN:O	2:J:2006:HIS:HD2	2.03	0.40
2:G:1410:GLY:HA2	2:G:1437:GLY:H	1.86	0.40
1:A:1562:THR:HB	1:A:1572:TRP:CZ3	2.56	0.40
2:G:382:LEU:HG	2:G:390:VAL:HB	2.02	0.40
1:E:1565:PRO:HG3	1:E:1572:TRP:CH2	2.54	0.40
2:J:290:VAL:HB	2:J:315:LEU:HD11	2.03	0.40
2:I:162:ALA:CA	2:I:167:VAL:HG22	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1884:CYS:CB	2:K:1936:LEU:HD12	2.46	0.40
1:A:1584:GLY:HA2	1:A:1617:ILE:HD12	2.03	0.40
1:A:1617:ILE:CD1	1:A:1617:ILE:N	2.79	0.40
2:K:1764:MET:O	2:K:1780:ILE:HG13	2.22	0.40
1:A:1094:LYS:HE3	1:A:1316:TYR:CG	2.54	0.40
2:L:1764:MET:HG3	2:L:1781:PHE:CD1	2.56	0.40
2:J:1040:TYR:CE1	2:J:1044:LYS:HD2	2.57	0.40
1:C:537:ASN:HB2	1:C:585:MET:SD	2.61	0.40
2:G:662:LEU:HD22	2:G:673:GLN:OE1	2.22	0.40
2:H:785:SER:O	2:H:789:TYR:HB2	2.21	0.40
2:L:1358:THR:O	2:L:1361:ILE:HG13	2.22	0.40
2:L:1316:VAL:HG21	2:L:1393:ASP:HB2	2.04	0.40
2:J:1171:TRP:CG	2:J:1172:ARG:N	2.90	0.40
2:L:1236:LEU:HD21	2:L:1239:ASP:O	2.21	0.40
2:I:1236:LEU:HD12	2:I:1242:ILE:HA	2.03	0.40
2:G:906:LEU:HD22	2:G:906:LEU:HA	1.78	0.40
2:I:815:ARG:NH2	2:I:1086:ILE:CG2	2.85	0.40
2:K:529:ASN:ND2	2:K:552:VAL:HG23	2.34	0.40
2:I:1589:PRO:HB2	2:I:1596:PHE:HB3	2.04	0.40
1:C:1223:GLY:CA	1:C:1276:PRO:HD2	2.51	0.40
2:L:1880:ASN:HB3	2:L:1881:TYR:CE1	2.56	0.40
1:D:1162:GLY:O	1:D:1354:SER:HA	2.21	0.40
1:E:958:GLU:HA	1:E:959:PRO:HD3	1.85	0.40
2:K:396:ILE:HD12	2:K:396:ILE:N	2.36	0.40
2:J:817:MET:HB3	2:J:817:MET:HE2	1.84	0.40
2:I:541:LEU:HG	2:I:552:VAL:HG11	2.02	0.40
2:H:887:ASP:O	2:H:888:ARG:C	2.60	0.40
2:L:1577:ASN:OD1	2:L:1607:THR:HA	2.21	0.40
2:I:2050:ILE:O	2:I:2050:ILE:HG12	2.21	0.40
2:H:196:PHE:CD1	2:H:266:LYS:HB3	2.57	0.40
2:J:1910:VAL:HG11	2:J:1973:ILE:CG2	2.51	0.40
2:I:976:GLN:HA	2:I:977:PRO:HD3	1.92	0.40
2:L:1041:TRP:CE3	2:L:1041:TRP:HA	2.56	0.40
1:D:1232:LEU:HD23	1:D:1253:SER:HB2	2.03	0.40
2:L:540:ILE:HD13	2:L:557:GLU:HB2	2.04	0.40
2:J:1960:MET:HB3	2:J:1964:ASP:HB2	2.03	0.40
1:F:726:VAL:HG21	1:F:780:ALA:HB3	2.04	0.40
2:K:1472:TRP:CD2	2:K:1540:VAL:HG22	2.56	0.40
2:H:332:ALA:HB3	2:H:335:THR:OG1	2.22	0.40
1:F:970:LEU:HA	1:F:971:PRO:HD3	1.98	0.40
2:H:1820:ASP:O	2:H:1823:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:538:ARG:HD2	2:I:539:VAL:H	1.87	0.40
1:A:1435:TRP:HD1	1:E:1427:LEU:HD11	1.86	0.40
2:I:1384:PRO:HB3	2:I:1829:ARG:HH12	1.86	0.40
2:J:1810:LEU:HA	2:J:1810:LEU:HD23	1.85	0.40
1:F:1321:MET:HB3	1:F:1321:MET:HE2	1.78	0.40
1:A:681:ILE:HG23	1:A:681:ILE:O	2.21	0.40
2:L:890:LYS:HB2	2:L:890:LYS:HE3	1.79	0.40
2:G:1708:LEU:O	2:G:1708:LEU:HD22	2.21	0.40
2:J:890:LYS:HB2	2:J:890:LYS:HE3	1.78	0.40
1:D:709:LEU:HA	1:D:709:LEU:HD23	1.81	0.40
2:G:237:GLN:HA	2:G:238:PRO:HD3	1.87	0.40
1:C:1466:TYR:CE2	1:C:1470:ARG:HG3	2.56	0.40
2:H:1261:PHE:HE2	2:H:1285:ILE:HD11	1.87	0.40
1:A:1268:SER:OG	1:A:1686:PRO:HD3	2.21	0.40
2:I:1067:LEU:CB	4:I:2101:FMN:HM82	2.52	0.40
2:H:866:HIS:HB3	2:H:1068:GLN:O	2.22	0.40
2:K:955:LEU:HD21	2:K:1026:LYS:O	2.21	0.40
2:H:169:ILE:HG22	2:H:279:PHE:CD2	2.57	0.40
2:H:472:THR:HG22	2:H:473:LYS:N	2.37	0.40
2:G:613:VAL:H	2:G:614:PRO:HD3	1.85	0.40
2:J:1350:ILE:HD13	2:J:1610:MET:SD	2.62	0.40
1:F:1703:VAL:HG22	1:F:1712:LYS:C	2.41	0.40
1:E:612:ILE:CD1	1:E:628:TYR:HD2	2.34	0.40
2:I:1048:TRP:NE1	2:I:1049:GLN:HG2	2.34	0.40
2:J:1873:ARG:NH1	2:J:2002:ASP:CB	2.83	0.40
1:A:1104:GLN:HG3	1:A:1105:ASP:O	2.22	0.40
2:K:1265:TYR:CZ	2:K:1267:PRO:HG3	2.54	0.40
2:K:791:TYR:HD2	2:K:796:TRP:CG	2.40	0.40
2:K:314:LEU:HG	2:K:318:ILE:CD1	2.45	0.40
1:E:650:PHE:CE2	1:E:881:LEU:HD22	2.57	0.40
2:J:1880:ASN:HB3	2:J:1881:TYR:CE1	2.57	0.40
2:G:797:SER:O	2:G:802:TYR:HB2	2.21	0.40
1:C:1280:CYS:HA	1:C:1566:LYS:O	2.21	0.40
1:C:681:ILE:HG23	1:C:681:ILE:O	2.21	0.40
2:J:497:ASP:HA	2:J:498:PRO:HD3	1.92	0.40
2:L:2003:VAL:HA	2:L:2004:PRO:HD3	1.78	0.40
2:H:747:ARG:NH2	2:H:757:PHE:CE1	2.90	0.40
2:G:1745:LEU:HD12	2:G:1746:THR:H	1.86	0.40
2:H:1891:ILE:HG22	2:H:1892:SER:N	2.36	0.40
2:J:1645:PRO:O	2:J:1646:ASN:HB2	2.21	0.40
1:C:759:ILE:N	1:C:759:ILE:HD12	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1933:LEU:HB3	2:H:1987:VAL:HB	2.03	0.40
1:F:827:ARG:NH1	1:F:831:GLU:OE2	2.55	0.40
1:B:1363:MET:HE3	1:B:1368:ALA:CB	2.52	0.40
1:B:1365:ALA:O	1:B:1368:ALA:HB3	2.21	0.40
1:F:1199:LEU:HD23	1:F:1199:LEU:O	2.22	0.40
2:H:1706:MET:HE2	2:H:1738:VAL:CG1	2.51	0.40
2:H:1734:ILE:HG13	2:H:1735:ILE:N	2.36	0.40
2:J:48:LEU:HD11	2:J:101:VAL:HG21	2.03	0.40
2:I:1845:VAL:CB	2:I:1856:LEU:HD22	2.52	0.40
2:L:1933:LEU:HB3	2:L:1987:VAL:HB	2.03	0.40
2:J:1342:PHE:HE2	2:J:1391:VAL:CB	2.34	0.40
2:J:186:LEU:HD23	2:J:186:LEU:HA	1.82	0.40
2:G:1083:ILE:HG13	2:G:1083:ILE:H	1.48	0.40
2:G:789:TYR:O	2:G:792:LEU:HB3	2.22	0.40
2:L:815:ARG:NH2	2:L:1086:ILE:CG2	2.84	0.40
2:I:1865:LEU:O	2:I:1869:VAL:HG22	2.21	0.40
2:L:1171:TRP:CG	2:L:1172:ARG:N	2.89	0.40
1:B:1086:PHE:CZ	1:B:1310:PHE:HD2	2.39	0.40
2:H:1236:LEU:HD12	2:H:1242:ILE:HA	2.03	0.40
2:H:221:TYR:N	2:H:222:PRO:HD3	2.35	0.40
2:J:1299:VAL:HA	2:J:1300:PRO:HD3	1.80	0.40
2:K:24:LEU:CD1	2:K:37:VAL:HG21	2.48	0.40
2:G:220:GLN:O	2:G:222:PRO:HD3	2.20	0.40
2:I:138:ARG:HB2	2:I:192:THR:HA	2.03	0.40
2:L:521:VAL:O	2:L:521:VAL:HG12	2.21	0.40
2:K:1573:ALA:HA	2:K:1574:PRO:HD3	1.98	0.40
1:E:405:TRP:CH2	1:E:1609:SER:HB3	2.56	0.40
2:H:875:PHE:HE2	2:H:906:LEU:HD23	1.87	0.40
1:E:636:TYR:CE1	1:E:883:LEU:HD23	2.57	0.40
2:L:350:MET:HG3	2:L:435:ILE:CB	2.52	0.40
1:F:1301:VAL:HG22	1:F:1302:CYS:H	1.86	0.40
2:G:1248:GLU:OE2	2:G:1250:ARG:HG2	2.22	0.40
1:A:47:ILE:CD1	2:G:1818:PHE:CD1	3.04	0.40
1:E:1099:GLU:HA	1:E:1149:LEU:HD23	2.03	0.40
1:B:904:GLY:HA2	1:B:906:GLN:CD	2.41	0.40
1:A:12:THR:CG2	2:G:2066:LYS:HD3	2.51	0.40
2:G:2073:ASN:O	2:G:2076:LYS:N	2.54	0.40
1:E:1553:VAL:HG22	1:E:1604:TYR:O	2.21	0.40
2:J:1250:ARG:HD3	2:J:1250:ARG:H	1.86	0.40
2:K:123:ALA:O	2:K:126:VAL:HG23	2.22	0.40
2:G:1951:ILE:H	2:G:1951:ILE:HD12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1599:MET:HA	1:B:1602:PHE:HD2	1.87	0.40
1:C:1185:PRO:O	1:C:1188:LEU:HB2	2.21	0.40
2:H:1313:ARG:HG3	2:H:1394:VAL:CG1	2.52	0.40
2:L:1400:GLN:HE21	2:L:1400:GLN:N	2.20	0.40
2:L:1726:PHE:CE1	2:L:1857:VAL:HB	2.56	0.40
1:A:1527:THR:OG1	1:A:1530:ASN:HB3	2.21	0.40
1:A:996:VAL:HG11	1:A:1578:LEU:HD11	2.04	0.40
2:I:1619:LEU:O	2:I:1623:TRP:HB2	2.21	0.40
1:E:782:LYS:NZ	1:E:786:LYS:HD2	2.35	0.40
1:C:1440:TYR:O	1:C:1444:GLN:HB2	2.21	0.40
2:I:637:ASN:ND2	2:I:639:GLN:HB3	2.37	0.40
2:H:111:ARG:HB2	2:H:111:ARG:HE	1.71	0.40
1:E:1191:LEU:HA	1:E:1191:LEU:HD23	1.95	0.40
2:K:1470:LYS:HA	2:K:1470:LYS:HD3	1.90	0.40
2:I:1702:GLN:HB2	2:I:1702:GLN:HE21	1.68	0.40
2:L:245:SER:HA	2:L:436:THR:OG1	2.22	0.40
2:I:1488:LEU:HB2	2:I:1490:PHE:HE1	1.86	0.40
2:K:1733:SER:O	2:K:1737:ILE:HG13	2.22	0.40

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

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

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1451/1878 (77%)	1270 (88%)	164 (11%)	17 (1%)	<b>16</b> 52

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1458/1878 (78%)	1278 (88%)	160 (11%)	20 (1%)	14	48
1	C	1456/1878 (78%)	1283 (88%)	156 (11%)	17 (1%)	16	52
1	D	1461/1878 (78%)	1276 (87%)	161 (11%)	24 (2%)	12	44
1	E	1450/1878 (77%)	1276 (88%)	155 (11%)	19 (1%)	15	50
1	F	1455/1878 (78%)	1282 (88%)	153 (10%)	20 (1%)	14	48
2	G	2058/2060 (100%)	1789 (87%)	237 (12%)	32 (2%)	12	44
2	H	2058/2060 (100%)	1791 (87%)	230 (11%)	37 (2%)	11	42
2	I	2058/2060 (100%)	1787 (87%)	238 (12%)	33 (2%)	12	44
2	J	2058/2060 (100%)	1784 (87%)	240 (12%)	34 (2%)	11	43
2	K	2058/2060 (100%)	1785 (87%)	239 (12%)	34 (2%)	11	43
2	L	2058/2060 (100%)	1780 (86%)	241 (12%)	37 (2%)	11	42
All	All	21079/23628 (89%)	18381 (87%)	2374 (11%)	324 (2%)	13	46

All (324) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1220/1527 (80%)	1107 (91%)	113 (9%)	11	39
1	B	1227/1527 (80%)	1117 (91%)	110 (9%)	12	41
1	C	1225/1527 (80%)	1110 (91%)	115 (9%)	11	39
1	D	1229/1527 (80%)	1107 (90%)	122 (10%)	10	34
1	E	1219/1527 (80%)	1106 (91%)	113 (9%)	11	39
1	F	1224/1527 (80%)	1111 (91%)	113 (9%)	11	40
2	G	1752/1752 (100%)	1569 (90%)	183 (10%)	9	32
2	H	1752/1752 (100%)	1569 (90%)	183 (10%)	9	32
2	I	1752/1752 (100%)	1565 (89%)	187 (11%)	8	31
2	J	1752/1752 (100%)	1567 (89%)	185 (11%)	8	31
2	K	1752/1752 (100%)	1566 (89%)	186 (11%)	8	31
2	L	1752/1752 (100%)	1563 (89%)	189 (11%)	8	30
All	All	17856/19674 (91%)	16057 (90%)	1799 (10%)	9	33

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.



## 5.6 Ligand geometry ⓘ

18 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
3	NAP	A	1901	-	45,52,52	1.16	3 (6%)	55,80,80	1.82	4 (7%)
3	NAP	B	1901	-	45,52,52	1.16	3 (6%)	55,80,80	1.78	5 (9%)
3	NAP	C	1901	-	45,52,52	1.20	3 (6%)	55,80,80	1.83	4 (7%)
3	NAP	D	1901	-	45,52,52	1.31	3 (6%)	55,80,80	1.97	4 (7%)
3	NAP	E	1901	-	45,52,52	1.18	3 (6%)	55,80,80	1.92	6 (10%)
3	NAP	F	1901	-	45,52,52	1.19	3 (6%)	55,80,80	1.93	5 (9%)
4	FMN	G	2101	-	32,33,33	5.94	21 (65%)	34,50,50	2.05	6 (17%)
3	NAP	G	2102	-	45,52,52	1.12	4 (8%)	55,80,80	1.88	5 (9%)
4	FMN	H	2101	-	32,33,33	5.95	21 (65%)	34,50,50	1.90	6 (17%)
3	NAP	H	2102	-	45,52,52	1.13	4 (8%)	55,80,80	1.90	4 (7%)
4	FMN	I	2101	-	32,33,33	5.96	19 (59%)	34,50,50	1.91	6 (17%)
3	NAP	I	2102	-	45,52,52	1.08	3 (6%)	55,80,80	1.91	3 (5%)
4	FMN	J	2101	-	32,33,33	6.20	22 (68%)	34,50,50	2.00	4 (11%)
3	NAP	J	2102	-	45,52,52	1.16	4 (8%)	55,80,80	1.90	6 (10%)
4	FMN	K	2101	-	32,33,33	6.21	21 (65%)	34,50,50	1.83	5 (14%)
3	NAP	K	2102	-	45,52,52	1.09	4 (8%)	55,80,80	1.79	5 (9%)
4	FMN	L	2101	-	32,33,33	6.01	21 (65%)	34,50,50	1.91	5 (14%)
3	NAP	L	2102	-	45,52,52	1.12	3 (6%)	55,80,80	1.84	4 (7%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAP	A	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	B	1901	-	-	0/27/67/67	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAP	C	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	D	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	E	1901	-	-	0/27/67/67	0/5/5/5
3	NAP	F	1901	-	-	0/27/67/67	0/5/5/5
4	FMN	G	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	G	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	H	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	H	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	I	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	I	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	J	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	J	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	K	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	K	2102	-	-	0/27/67/67	0/5/5/5
4	FMN	L	2101	-	-	0/18/18/18	0/3/3/3
3	NAP	L	2102	-	-	0/27/67/67	0/5/5/5

All (165) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	2101	FMN	C8M-C8	2.00	1.55	1.51
3	G	2102	NAP	C6N-N1N	2.01	1.41	1.35
4	H	2101	FMN	P-O5'	2.09	1.65	1.59
3	K	2102	NAP	C6N-N1N	2.15	1.41	1.35
3	I	2102	NAP	C2A-N1A	2.17	1.38	1.33
4	L	2101	FMN	P-O5'	2.19	1.66	1.59
3	H	2102	NAP	C6N-N1N	2.19	1.41	1.35
4	J	2101	FMN	P-O5'	2.23	1.66	1.59
3	K	2102	NAP	C2A-N1A	2.25	1.38	1.33
3	J	2102	NAP	C2A-N1A	2.27	1.38	1.33
3	H	2102	NAP	C2A-N1A	2.34	1.38	1.33
4	G	2101	FMN	C5'-C4'	2.35	1.55	1.51
3	G	2102	NAP	C2A-N1A	2.37	1.38	1.33
3	A	1901	NAP	C2A-N1A	2.37	1.38	1.33
3	L	2102	NAP	C2A-N1A	2.42	1.38	1.33
3	E	1901	NAP	C2A-N1A	2.44	1.38	1.33
3	C	1901	NAP	C2A-N1A	2.45	1.38	1.33
3	B	1901	NAP	C2A-N1A	2.46	1.38	1.33
4	J	2101	FMN	C8M-C8	2.48	1.55	1.51
4	L	2101	FMN	C5'-C4'	2.50	1.55	1.51
3	J	2102	NAP	C6N-N1N	2.50	1.42	1.35
4	K	2101	FMN	C5'-C4'	2.62	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	1901	NAP	C2A-N1A	2.66	1.39	1.33
3	F	1901	NAP	C2A-N1A	2.77	1.39	1.33
4	K	2101	FMN	P-O5'	2.79	1.67	1.59
4	H	2101	FMN	C5'-C4'	2.90	1.56	1.51
4	I	2101	FMN	P-O3P	2.99	1.65	1.54
4	G	2101	FMN	P-O3P	2.99	1.65	1.54
4	I	2101	FMN	P-O2P	3.09	1.65	1.54
4	L	2101	FMN	P-O3P	3.09	1.65	1.54
4	J	2101	FMN	P-O2P	3.12	1.65	1.54
4	H	2101	FMN	P-O3P	3.13	1.65	1.54
3	I	2102	NAP	C2N-N1N	3.16	1.39	1.35
4	L	2101	FMN	P-O2P	3.17	1.65	1.54
4	J	2101	FMN	C5'-C4'	3.19	1.56	1.51
4	H	2101	FMN	P-O2P	3.28	1.66	1.54
3	F	1901	NAP	C2A-N3A	3.32	1.38	1.32
3	L	2102	NAP	C2N-N1N	3.36	1.39	1.35
4	K	2101	FMN	P-O2P	3.36	1.66	1.54
3	I	2102	NAP	C2A-N3A	3.43	1.38	1.32
3	B	1901	NAP	C2A-N3A	3.45	1.38	1.32
4	G	2101	FMN	P-O2P	3.46	1.66	1.54
4	K	2101	FMN	P-O3P	3.48	1.66	1.54
4	J	2101	FMN	P-O3P	3.49	1.66	1.54
3	K	2102	NAP	C2A-N3A	3.49	1.38	1.32
3	H	2102	NAP	C2A-N3A	3.52	1.38	1.32
3	J	2102	NAP	C2A-N3A	3.54	1.38	1.32
3	H	2102	NAP	C2N-N1N	3.57	1.40	1.35
3	E	1901	NAP	C2N-N1N	3.58	1.40	1.35
3	G	2102	NAP	C2A-N3A	3.62	1.38	1.32
3	K	2102	NAP	C2N-N1N	3.63	1.40	1.35
3	G	2102	NAP	C2N-N1N	3.64	1.40	1.35
3	B	1901	NAP	C2N-N1N	3.71	1.40	1.35
3	J	2102	NAP	C2N-N1N	3.72	1.40	1.35
3	A	1901	NAP	C2A-N3A	3.77	1.38	1.32
3	L	2102	NAP	C2A-N3A	3.80	1.38	1.32
3	A	1901	NAP	C2N-N1N	3.86	1.40	1.35
3	C	1901	NAP	C2A-N3A	3.92	1.39	1.32
3	D	1901	NAP	C2A-N3A	3.92	1.39	1.32
3	E	1901	NAP	C2A-N3A	3.93	1.39	1.32
3	F	1901	NAP	C2N-N1N	3.94	1.40	1.35
3	C	1901	NAP	C2N-N1N	4.00	1.40	1.35
3	D	1901	NAP	C2N-N1N	4.80	1.41	1.35
4	L	2101	FMN	C4-C4A	4.93	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	2101	FMN	C4-C4A	5.03	1.51	1.41
4	G	2101	FMN	C4-C4A	5.15	1.51	1.41
4	J	2101	FMN	C4-C4A	5.26	1.52	1.41
4	I	2101	FMN	C4-C4A	5.34	1.52	1.41
4	I	2101	FMN	C9A-C5A	5.44	1.54	1.42
4	K	2101	FMN	C9A-C5A	5.67	1.54	1.42
4	G	2101	FMN	C9A-C5A	5.67	1.54	1.42
4	H	2101	FMN	C9A-C5A	5.75	1.54	1.42
4	L	2101	FMN	C9A-C5A	5.92	1.55	1.42
4	G	2101	FMN	C8-C7	6.03	1.57	1.41
4	K	2101	FMN	C4-C4A	6.03	1.53	1.41
4	I	2101	FMN	C8-C7	6.10	1.57	1.41
4	L	2101	FMN	O4-C4	6.28	1.40	1.24
4	L	2101	FMN	C8-C7	6.33	1.58	1.41
4	J	2101	FMN	C9A-C5A	6.35	1.56	1.42
4	K	2101	FMN	C8-C7	6.39	1.58	1.41
4	H	2101	FMN	C8-C7	6.39	1.58	1.41
4	G	2101	FMN	C2-N3	6.40	1.51	1.38
4	H	2101	FMN	O4-C4	6.41	1.40	1.24
4	I	2101	FMN	O4-C4	6.42	1.40	1.24
4	H	2101	FMN	C2-N3	6.50	1.51	1.38
4	I	2101	FMN	C2-N3	6.53	1.51	1.38
4	L	2101	FMN	C9-C8	6.54	1.56	1.37
4	I	2101	FMN	C9-C8	6.58	1.56	1.37
4	G	2101	FMN	O4-C4	6.58	1.41	1.24
4	K	2101	FMN	C2-N3	6.61	1.51	1.38
4	K	2101	FMN	O4-C4	6.61	1.41	1.24
4	H	2101	FMN	C9-C8	6.70	1.56	1.37
4	J	2101	FMN	O4-C4	6.71	1.41	1.24
4	L	2101	FMN	C2-N3	6.71	1.52	1.38
4	K	2101	FMN	C9-C8	6.76	1.56	1.37
4	L	2101	FMN	C6-C7	6.78	1.56	1.37
4	I	2101	FMN	C6-C7	6.81	1.56	1.37
4	J	2101	FMN	C2-N3	6.84	1.52	1.38
4	G	2101	FMN	C4A-C10	6.84	1.53	1.40
4	G	2101	FMN	C9-C8	6.85	1.56	1.37
4	H	2101	FMN	C4A-C10	6.85	1.53	1.40
4	J	2101	FMN	C9A-N10	6.88	1.48	1.38
4	G	2101	FMN	C6-C7	6.92	1.57	1.37
4	L	2101	FMN	C4A-C10	6.95	1.53	1.40
4	H	2101	FMN	C10-N1	6.97	1.47	1.35
4	I	2101	FMN	C4A-C10	6.97	1.53	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	K	2101	FMN	C4A-C10	7.01	1.53	1.40
4	J	2101	FMN	C8-C7	7.07	1.59	1.41
4	H	2101	FMN	C6-C7	7.13	1.57	1.37
4	I	2101	FMN	C10-N1	7.17	1.47	1.35
4	K	2101	FMN	C6-C7	7.20	1.57	1.37
4	J	2101	FMN	C6-C7	7.24	1.58	1.37
4	H	2101	FMN	C2-N1	7.24	1.53	1.38
4	J	2101	FMN	C9-C8	7.28	1.58	1.37
4	G	2101	FMN	C10-N1	7.28	1.48	1.35
4	G	2101	FMN	C9A-N10	7.31	1.49	1.38
4	L	2101	FMN	C2-N1	7.32	1.53	1.38
4	L	2101	FMN	C10-N1	7.38	1.48	1.35
4	J	2101	FMN	C4A-C10	7.52	1.54	1.40
4	L	2101	FMN	C9A-N10	7.53	1.49	1.38
4	H	2101	FMN	C9A-N10	7.55	1.49	1.38
4	G	2101	FMN	C2-N1	7.58	1.53	1.38
4	I	2101	FMN	C2-N1	7.61	1.54	1.38
4	J	2101	FMN	C2-N1	7.63	1.54	1.38
4	J	2101	FMN	C10-N1	7.64	1.48	1.35
4	K	2101	FMN	C9A-N10	7.75	1.49	1.38
4	I	2101	FMN	C9A-N10	7.79	1.49	1.38
4	K	2101	FMN	C10-N1	7.93	1.49	1.35
4	K	2101	FMN	C2-N1	8.25	1.55	1.38
4	L	2101	FMN	C9-C9A	8.65	1.59	1.40
4	G	2101	FMN	C9-C9A	8.66	1.59	1.40
4	I	2101	FMN	C9-C9A	8.73	1.59	1.40
4	K	2101	FMN	C9-C9A	8.94	1.60	1.40
4	L	2101	FMN	C4-N3	8.94	1.49	1.33
4	G	2101	FMN	C4-N3	8.95	1.49	1.33
4	J	2101	FMN	C9-C9A	8.96	1.60	1.40
4	H	2101	FMN	C9-C9A	8.97	1.60	1.40
4	H	2101	FMN	C4-N3	8.99	1.49	1.33
4	I	2101	FMN	C4-N3	9.02	1.49	1.33
4	K	2101	FMN	C4-N3	9.43	1.50	1.33
4	K	2101	FMN	C5A-N5	9.44	1.50	1.35
4	H	2101	FMN	C5A-N5	9.44	1.50	1.35
4	J	2101	FMN	C5A-N5	9.53	1.50	1.35
4	I	2101	FMN	C5A-N5	9.54	1.50	1.35
4	G	2101	FMN	C5A-N5	9.65	1.50	1.35
4	J	2101	FMN	C4-N3	9.66	1.50	1.33
4	L	2101	FMN	C5A-N5	10.03	1.51	1.35
4	H	2101	FMN	C10-N10	10.18	1.51	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	2101	FMN	C10-N10	10.53	1.51	1.39
4	I	2101	FMN	C10-N10	10.75	1.51	1.39
4	I	2101	FMN	C6-C5A	10.84	1.58	1.41
4	H	2101	FMN	C6-C5A	10.86	1.58	1.41
4	J	2101	FMN	C10-N10	10.90	1.51	1.39
4	G	2101	FMN	C4A-N5	10.91	1.50	1.33
4	L	2101	FMN	C6-C5A	10.94	1.58	1.41
4	G	2101	FMN	C6-C5A	10.95	1.58	1.41
4	K	2101	FMN	C6-C5A	11.01	1.58	1.41
4	L	2101	FMN	C4A-N5	11.02	1.50	1.33
4	J	2101	FMN	C6-C5A	11.22	1.58	1.41
4	I	2101	FMN	C4A-N5	11.22	1.50	1.33
4	H	2101	FMN	C4A-N5	11.25	1.50	1.33
4	J	2101	FMN	C4A-N5	11.34	1.50	1.33
4	L	2101	FMN	C10-N10	11.37	1.52	1.39
4	K	2101	FMN	C4A-N5	11.60	1.51	1.33
4	K	2101	FMN	C10-N10	11.61	1.52	1.39

All (87) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	2102	NAP	N3A-C2A-N1A	-12.04	119.41	128.87
3	D	1901	NAP	N3A-C2A-N1A	-11.99	119.45	128.87
3	G	2102	NAP	N3A-C2A-N1A	-11.57	119.78	128.87
3	J	2102	NAP	N3A-C2A-N1A	-11.55	119.80	128.87
3	L	2102	NAP	N3A-C2A-N1A	-11.45	119.88	128.87
3	H	2102	NAP	N3A-C2A-N1A	-11.38	119.93	128.87
3	E	1901	NAP	N3A-C2A-N1A	-11.37	119.94	128.87
3	F	1901	NAP	N3A-C2A-N1A	-11.13	120.13	128.87
3	K	2102	NAP	N3A-C2A-N1A	-10.94	120.28	128.87
3	C	1901	NAP	N3A-C2A-N1A	-10.93	120.29	128.87
3	A	1901	NAP	N3A-C2A-N1A	-10.58	120.56	128.87
3	B	1901	NAP	N3A-C2A-N1A	-9.96	121.05	128.87
4	G	2101	FMN	N3-C2-N1	-5.10	119.10	127.69
4	K	2101	FMN	N3-C2-N1	-5.04	119.21	127.69
4	J	2101	FMN	N3-C2-N1	-4.84	119.54	127.69
4	L	2101	FMN	N3-C2-N1	-4.80	119.60	127.69
4	I	2101	FMN	N3-C2-N1	-4.71	119.75	127.69
4	H	2101	FMN	N3-C2-N1	-4.68	119.80	127.69
4	J	2101	FMN	C4A-C4-N3	-3.61	118.80	123.52
4	G	2101	FMN	C4A-C4-N3	-3.31	119.20	123.52
4	L	2101	FMN	C4A-C4-N3	-3.28	119.23	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	2101	FMN	C4A-C4-N3	-3.26	119.26	123.52
4	I	2101	FMN	C4A-C4-N3	-3.02	119.57	123.52
3	F	1901	NAP	C2D-C1D-N1N	-2.91	107.82	113.53
3	A	1901	NAP	C2D-C1D-N1N	-2.67	108.30	113.53
3	D	1901	NAP	C2D-C1D-N1N	-2.61	108.42	113.53
3	C	1901	NAP	C4D-O4D-C1D	-2.47	107.03	109.64
3	B	1901	NAP	C2D-C1D-N1N	-2.38	108.88	113.53
4	G	2101	FMN	O4'-C4'-C5'	-2.32	105.03	110.09
3	E	1901	NAP	C2D-C1D-N1N	-2.30	109.02	113.53
4	I	2101	FMN	O4'-C4'-C5'	-2.28	105.13	110.09
3	B	1901	NAP	C4D-O4D-C1D	-2.22	107.29	109.64
3	B	1901	NAP	C3N-C7N-N7N	-2.21	115.33	117.82
3	J	2102	NAP	C3N-C7N-N7N	-2.18	115.36	117.82
3	F	1901	NAP	C4D-O4D-C1D	-2.15	107.37	109.64
4	H	2101	FMN	C4A-C10-N10	-2.15	118.96	120.52
3	H	2102	NAP	C3N-C7N-N7N	-2.14	115.40	117.82
3	G	2102	NAP	C1B-N9A-C4A	-2.09	124.47	126.81
4	K	2101	FMN	C4A-C4-N3	-2.06	120.82	123.52
3	C	1901	NAP	C2D-C1D-N1N	-2.04	109.54	113.53
3	E	1901	NAP	C4D-O4D-C1D	-2.01	107.51	109.64
3	K	2102	NAP	O3X-P2B-O2B	2.00	112.61	106.62
3	I	2102	NAP	O4B-C1B-N9A	2.04	111.96	108.11
3	E	1901	NAP	O2N-PN-O1N	2.07	123.33	112.56
3	L	2102	NAP	O3X-P2B-O2B	2.08	112.83	106.62
3	F	1901	NAP	O4B-C1B-N9A	2.10	112.07	108.11
3	J	2102	NAP	O3X-P2B-O2B	2.18	113.15	106.62
3	G	2102	NAP	O4B-C1B-N9A	2.23	112.31	108.11
3	K	2102	NAP	O4B-C1B-N9A	2.27	112.39	108.11
3	D	1901	NAP	O4B-C1B-N9A	2.29	112.43	108.11
3	K	2102	NAP	O4D-C1D-N1N	2.30	110.59	108.10
3	A	1901	NAP	O7N-C7N-C3N	2.34	122.19	119.60
3	E	1901	NAP	O7N-C7N-C3N	2.39	122.24	119.60
4	H	2101	FMN	C4A-N5-C5A	2.42	119.57	116.72
3	L	2102	NAP	O4D-C1D-N1N	2.58	110.89	108.10
3	J	2102	NAP	O4B-C1B-N9A	2.59	112.99	108.11
3	J	2102	NAP	O4D-C1D-N1N	2.59	110.90	108.10
3	G	2102	NAP	O4D-C1D-N1N	2.85	111.18	108.10
3	L	2102	NAP	P2B-O2B-C2B	2.86	128.89	121.56
4	G	2101	FMN	C4A-N5-C5A	2.88	120.12	116.72
3	I	2102	NAP	P2B-O2B-C2B	2.89	128.96	121.56
3	J	2102	NAP	P2B-O2B-C2B	2.90	128.99	121.56
4	L	2101	FMN	C4A-N5-C5A	2.96	120.21	116.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	I	2101	FMN	C4A-N5-C5A	2.99	120.24	116.72
3	G	2102	NAP	P2B-O2B-C2B	3.12	129.56	121.56
3	K	2102	NAP	P2B-O2B-C2B	3.13	129.58	121.56
3	H	2102	NAP	O4D-C1D-N1N	3.21	111.58	108.10
4	K	2101	FMN	C4A-N5-C5A	3.29	120.60	116.72
3	H	2102	NAP	P2B-O2B-C2B	3.45	130.40	121.56
4	L	2101	FMN	C5A-C9A-N10	3.49	120.19	117.58
4	G	2101	FMN	C5A-C9A-N10	3.82	120.44	117.58
4	K	2101	FMN	C5A-C9A-N10	3.85	120.47	117.58
4	H	2101	FMN	C5A-C9A-N10	4.16	120.69	117.58
4	I	2101	FMN	C5A-C9A-N10	4.17	120.71	117.58
3	D	1901	NAP	O4D-C1D-N1N	4.29	112.74	108.10
3	E	1901	NAP	O4D-C1D-N1N	4.44	112.90	108.10
4	J	2101	FMN	C5A-C9A-N10	4.59	121.02	117.58
3	B	1901	NAP	O4D-C1D-N1N	4.69	113.17	108.10
3	C	1901	NAP	O4D-C1D-N1N	4.70	113.18	108.10
3	F	1901	NAP	O4D-C1D-N1N	4.89	113.38	108.10
3	A	1901	NAP	O4D-C1D-N1N	4.89	113.38	108.10
4	K	2101	FMN	C4-N3-C2	5.63	119.85	115.16
4	I	2101	FMN	C4-N3-C2	6.42	120.51	115.16
4	H	2101	FMN	C4-N3-C2	6.79	120.82	115.16
4	L	2101	FMN	C4-N3-C2	6.79	120.82	115.16
4	G	2101	FMN	C4-N3-C2	7.37	121.31	115.16
4	J	2101	FMN	C4-N3-C2	7.38	121.32	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

18 monomers are involved in 147 short contacts:

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

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	I	2101	FMN	16	0
3	I	2102	NAP	4	0
4	J	2101	FMN	15	0
3	J	2102	NAP	4	0
4	K	2101	FMN	15	0
3	K	2102	NAP	4	0
4	L	2101	FMN	15	0
3	L	2102	NAP	4	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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(Å²)	Q<0.9
1	A	1457/1878 (77%)	0.29	44 (3%)	54	29	16, 50, 103, 146	0
1	B	1464/1878 (77%)	0.31	38 (2%)	59	35	17, 50, 106, 157	0
1	C	1462/1878 (77%)	0.33	43 (2%)	55	31	15, 48, 107, 155	0
1	D	1467/1878 (78%)	0.29	48 (3%)	50	26	17, 52, 106, 151	0
1	E	1456/1878 (77%)	0.31	46 (3%)	51	27	17, 50, 106, 152	0
1	F	1461/1878 (77%)	0.34	37 (2%)	61	37	17, 47, 106, 156	0
2	G	2060/2060 (100%)	0.48	170 (8%)	14	5	24, 83, 128, 156	0
2	H	2060/2060 (100%)	0.57	222 (10%)	8	2	24, 85, 129, 155	0
2	I	2060/2060 (100%)	0.51	212 (10%)	9	3	20, 85, 129, 158	0
2	J	2060/2060 (100%)	0.61	274 (13%)	4	2	27, 88, 132, 157	0
2	K	2060/2060 (100%)	0.84	352 (17%)	2	1	25, 90, 133, 157	0
2	L	2060/2060 (100%)	0.58	257 (12%)	5	2	22, 86, 131, 158	0
All	All	21127/23628 (89%)	0.48	1743 (8%)	14	5	15, 74, 125, 158	0

All (1743) RSRZ outliers are listed below:

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

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Mol	Chain	Res	Type	RSRZ
2	H	1953	ILE	9.2
2	L	1915	LEU	9.2
2	K	543	GLY	8.5
2	K	40	SER	8.3
2	K	105	ILE	8.2
2	L	1348	PHE	8.2
2	I	1900	LEU	8.2
2	K	279	PHE	8.0
2	K	294	ALA	8.0
2	H	40	SER	8.0
2	L	109	PHE	8.0
2	J	24	LEU	8.0
2	K	817	MET	7.8
2	K	177	GLY	7.8
2	K	109	PHE	7.8
2	K	285	HIS	7.7
2	K	1068	GLN	7.6
2	K	104	LEU	7.6
2	J	26	LEU	7.6
2	H	177	GLY	7.4
2	J	261	TYR	7.4
2	K	76	VAL	7.4
2	J	1357	ILE	7.4
2	H	76	VAL	7.3
2	G	44	GLN	7.2
2	J	1123	ALA	7.0
2	K	1900	LEU	7.0
2	K	435	ILE	6.9
2	L	41	LEU	6.9
2	L	2005	PHE	6.9
2	K	173	PHE	6.8
2	H	1124	THR	6.8
2	J	558	LEU	6.8
2	K	478	LEU	6.7
2	K	102	LEU	6.7
2	K	1067	LEU	6.7
2	K	807	PHE	6.7
2	H	295	ILE	6.7
2	K	113	PHE	6.7
2	K	487	ILE	6.6
2	K	260	HIS	6.5
2	I	178	ASN	6.5

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Mol	Chain	Res	Type	RSRZ
2	H	23	PRO	6.5
2	K	515	ASP	6.4
2	H	79	TYR	6.4
2	I	2077	TYR	6.4
2	J	175	GLY	6.3
2	J	516	PHE	6.3
2	K	171	SER	6.3
2	H	33	PHE	6.2
2	K	605	VAL	6.2
2	G	606	ALA	6.2
2	J	45	ALA	6.1
2	L	478	LEU	6.1
2	K	100	GLU	6.1
2	K	258	LEU	6.1
2	K	252	LEU	6.0
2	K	123	ALA	6.0
2	I	1357	ILE	6.0
2	K	486	ILE	6.0
2	K	606	ALA	6.0
2	I	1128	PRO	6.0
2	K	159	PHE	6.0
2	K	283	THR	6.0
2	K	558	LEU	5.9
2	H	37	VAL	5.9
2	K	810	CYS	5.9
2	L	1142	ILE	5.9
2	L	1900	LEU	5.9
2	I	176	GLN	5.8
2	L	1841	TYR	5.8
2	K	35	PHE	5.8
2	J	25	VAL	5.8
2	L	275	LEU	5.8
2	G	171	SER	5.8
2	L	1886	VAL	5.7
2	J	1196	PHE	5.7
2	J	1943	LEU	5.7
2	K	544	ALA	5.7
2	H	225	LEU	5.7
2	H	175	GLY	5.7
2	J	252	LEU	5.7
2	K	604	MET	5.7
2	K	80	ILE	5.6

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

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

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

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Mol	Chain	Res	Type	RSRZ
2	L	35	PHE	4.2
2	L	264	THR	4.2
2	G	627	HIS	4.2
2	L	1692	TYR	4.2
2	K	690	LEU	4.2
2	I	1122	LYS	4.2
2	I	177	GLY	4.2
2	J	1128	PRO	4.2
2	K	782	PHE	4.2
2	I	24	LEU	4.2
2	J	659	THR	4.2
2	H	811	MET	4.2
2	K	72	VAL	4.2
2	K	384	ASN	4.2
2	J	1192	LEU	4.2
2	K	282	THR	4.2
2	K	91	ASP	4.2
1	D	852	LEU	4.2
2	J	490	LEU	4.2
2	H	1870	ALA	4.1
2	K	598	LEU	4.1
2	K	1965	VAL	4.1
2	H	328	ARG	4.1
2	H	41	LEU	4.1
2	J	158	LEU	4.1
2	K	251	PRO	4.1
2	L	158	LEU	4.1
2	K	1401	ILE	4.1
2	K	27	THR	4.1
2	L	1068	GLN	4.1
2	J	136	VAL	4.1
2	L	2042	ASN	4.1
2	L	2017	PHE	4.1
2	G	811	MET	4.1
2	I	35	PHE	4.1
2	K	603	VAL	4.1
2	I	487	ILE	4.1
2	J	41	LEU	4.1
2	K	36	LEU	4.1
2	J	1217	ILE	4.1
2	L	268	LEU	4.1
2	J	1596	PHE	4.0

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Mol	Chain	Res	Type	RSRZ
2	J	28	HIS	4.0
1	F	77	GLN	4.0
2	K	448	HIS	4.0
2	I	1427	MET	4.0
2	K	1175	MET	4.0
2	I	255	LEU	4.0
2	G	807	PHE	4.0
2	K	48	LEU	4.0
2	J	1348	PHE	4.0
1	C	36	LEU	4.0
2	H	186	LEU	4.0
2	J	452	LEU	4.0
2	K	169	ILE	4.0
2	K	597	LEU	4.0
2	G	294	ALA	4.0
2	I	104	LEU	4.0
2	L	513	ILE	4.0
2	H	102	LEU	4.0
2	H	2005	PHE	4.0
1	C	35	ILE	4.0
2	J	1771	ALA	4.0
2	K	627	HIS	4.0
2	G	119	VAL	3.9
2	K	24	LEU	3.9
2	H	227	ILE	3.9
2	J	782	PHE	3.9
1	A	44	ILE	3.9
2	H	173	PHE	3.9
2	H	176	GLN	3.9
2	I	1415	VAL	3.9
2	J	48	LEU	3.9
2	K	28	HIS	3.9
2	J	1697	GLN	3.9
2	K	1049	GLN	3.9
2	I	1217	ILE	3.9
2	K	172	ILE	3.9
2	K	1590	ILE	3.9
2	L	76	VAL	3.9
2	H	100	GLU	3.9
2	L	105	ILE	3.9
2	L	172	ILE	3.9
2	K	1426	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
2	H	779	GLY	3.9
2	K	1448	ARG	3.9
2	J	1066	ILE	3.9
2	H	45	ALA	3.9
2	H	294	ALA	3.9
2	K	1029	PRO	3.9
2	H	1401	ILE	3.9
2	K	860	GLU	3.9
2	L	1361	ILE	3.9
2	K	1227	LYS	3.9
2	H	552	VAL	3.8
2	K	186	LEU	3.8
2	L	1943	LEU	3.8
2	L	79	TYR	3.8
2	J	279	PHE	3.8
2	H	1954	GLN	3.8
1	B	14	LEU	3.8
2	H	1943	LEU	3.8
2	H	59	PRO	3.8
2	L	37	VAL	3.8
2	L	605	VAL	3.8
2	I	1243	ALA	3.8
2	K	33	PHE	3.8
2	I	1144	TYR	3.8
2	J	79	TYR	3.8
2	J	1886	VAL	3.8
2	G	1366	ILE	3.8
2	J	291	VAL	3.8
2	K	120	HIS	3.8
2	I	1730	TYR	3.7
2	L	518	PRO	3.7
2	I	27	THR	3.7
2	J	139	ALA	3.7
2	K	23	PRO	3.7
2	L	167	VAL	3.7
2	J	604	MET	3.7
2	L	1124	THR	3.7
2	H	467	ILE	3.7
2	I	1953	ILE	3.7
2	G	662	LEU	3.7
2	I	1850	VAL	3.7
2	J	312	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
1	F	41	THR	3.7
2	J	283	THR	3.7
2	K	1483	LEU	3.7
2	L	225	LEU	3.7
2	J	807	PHE	3.7
2	J	259	ALA	3.7
2	H	986	LEU	3.7
2	H	513	ILE	3.7
2	J	603	VAL	3.7
2	K	262	MET	3.7
1	B	1574	LEU	3.7
2	H	598	LEU	3.7
1	E	78	ILE	3.7
2	K	617	PHE	3.7
2	K	1596	PHE	3.7
2	J	805	MET	3.7
2	K	493	MET	3.7
2	J	1917	ILE	3.7
2	J	286	SER	3.7
2	K	37	VAL	3.7
2	K	304	PHE	3.7
2	L	1995	THR	3.6
1	E	566	PHE	3.6
2	L	810	CYS	3.6
2	I	113	PHE	3.6
1	A	548	VAL	3.6
2	I	1734	ILE	3.6
2	J	169	ILE	3.6
2	L	568	PHE	3.6
2	L	1917	ILE	3.6
2	H	284	GLY	3.6
2	K	525	GLY	3.6
1	D	14	LEU	3.6
2	I	45	ALA	3.6
2	K	589	PHE	3.6
1	E	45	VAL	3.6
2	L	469	VAL	3.6
2	I	1127	GLU	3.6
2	H	617	PHE	3.6
2	H	77	ALA	3.6
2	K	738	PRO	3.6
2	G	1196	PHE	3.6

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Mol	Chain	Res	Type	RSRZ
2	J	1361	ILE	3.6
2	K	259	ALA	3.6
2	I	26	LEU	3.6
1	B	1453	GLN	3.6
2	J	1042	PHE	3.6
2	J	134	ILE	3.6
1	D	851	GLY	3.6
2	J	1599	TYR	3.6
1	F	36	LEU	3.6
2	H	36	LEU	3.6
2	J	1370	LEU	3.6
2	K	75	LEU	3.6
2	I	1358	THR	3.6
2	L	1616	VAL	3.6
2	L	598	LEU	3.6
1	B	78	ILE	3.6
2	K	56	LEU	3.6
2	H	158	LEU	3.6
1	B	552	ILE	3.5
2	G	435	ILE	3.5
2	H	101	VAL	3.5
2	H	2035	LEU	3.5
2	J	264	THR	3.5
2	J	709	LEU	3.5
2	K	748	GLY	3.5
2	I	2017	PHE	3.5
1	C	569	LEU	3.5
2	H	1192	LEU	3.5
2	G	279	PHE	3.5
2	I	716	PHE	3.5
2	J	1125	ASP	3.5
2	K	1793	TYR	3.5
2	I	1361	ILE	3.5
2	H	285	HIS	3.5
2	H	179	ILE	3.5
2	I	119	VAL	3.5
2	H	694	ALA	3.5
2	K	1902	TYR	3.5
2	J	1620	VAL	3.5
2	K	743	TRP	3.5
2	G	173	PHE	3.5
2	J	137	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
2	I	1943	LEU	3.5
2	I	810	CYS	3.5
1	A	1443	LEU	3.5
1	C	1635	ILE	3.5
2	G	1121	LEU	3.5
2	L	1067	LEU	3.5
2	L	1936	LEU	3.5
2	H	1068	GLN	3.5
2	K	1699	SER	3.5
2	I	1599	TYR	3.5
2	L	807	PHE	3.5
2	I	1995	THR	3.5
2	L	774	ILE	3.5
2	L	43	PHE	3.5
2	L	175	GLY	3.5
2	J	171	SER	3.5
2	J	876	TRP	3.5
2	J	1289	TYR	3.5
2	K	190	TYR	3.5
2	I	1371	LEU	3.5
2	J	1067	LEU	3.5
2	K	1943	LEU	3.5
1	B	18	LEU	3.4
2	L	1143	SER	3.4
2	K	1016	PHE	3.4
1	E	541	VAL	3.4
2	K	201	ILE	3.4
2	H	782	PHE	3.4
1	C	78	ILE	3.4
2	I	1067	LEU	3.4
2	L	252	LEU	3.4
2	K	458	MET	3.4
2	G	778	ALA	3.4
2	J	1900	LEU	3.4
1	E	28	TRP	3.4
2	J	816	MET	3.4
2	K	1043	LYS	3.4
2	J	690	LEU	3.4
2	L	261	TYR	3.4
2	L	1928	VAL	3.4
2	H	627	HIS	3.4
2	H	264	THR	3.4

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Mol	Chain	Res	Type	RSRZ
2	J	1998	LEU	3.4
2	G	716	PHE	3.4
2	H	260	HIS	3.4
2	I	2040	ILE	3.4
2	G	255	LEU	3.4
2	H	106	LEU	3.4
2	H	120	HIS	3.4
2	J	76	VAL	3.4
2	L	1123	ALA	3.4
2	L	1939	LEU	3.4
2	I	1931	GLY	3.4
2	G	469	VAL	3.4
2	J	1939	LEU	3.4
2	G	742	GLN	3.4
2	K	1397	THR	3.4
2	L	1642	MET	3.4
2	J	542	ALA	3.4
2	K	79	TYR	3.4
2	K	1326	HIS	3.4
2	I	868	LEU	3.3
2	L	1653	LEU	3.3
2	J	298	ALA	3.3
1	D	44	ILE	3.3
1	A	1490	GLY	3.3
1	D	656	LEU	3.3
2	H	1612	THR	3.3
2	L	1349	ALA	3.3
2	L	1293	TRP	3.3
2	G	630	LEU	3.3
2	H	48	LEU	3.3
2	J	72	VAL	3.3
2	K	351	LEU	3.3
2	J	1953	ILE	3.3
2	G	1067	LEU	3.3
2	K	1419	LEU	3.3
2	I	279	PHE	3.3
2	K	713	HIS	3.3
2	G	41	LEU	3.3
2	G	72	VAL	3.3
2	I	1261	PHE	3.3
2	J	430	ASN	3.3
2	K	1691	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
2	J	1126	GLU	3.3
1	B	1627	PHE	3.3
2	H	105	ILE	3.3
2	H	1836	HIS	3.3
2	G	1070	PRO	3.3
1	D	1443	LEU	3.3
2	J	677	LEU	3.3
2	L	1989	LEU	3.3
2	I	105	ILE	3.3
2	L	2066	LYS	3.3
2	J	1305	LEU	3.3
2	K	350	MET	3.3
2	J	307	ALA	3.3
2	H	1939	LEU	3.3
2	I	102	LEU	3.3
2	K	1261	PHE	3.3
2	I	123	ALA	3.3
2	K	147	ALA	3.3
2	L	1217	ILE	3.3
2	K	148	GLY	3.3
2	I	1836	HIS	3.3
2	H	1196	PHE	3.3
2	K	811	MET	3.3
2	K	741	LEU	3.3
2	I	2013	GLY	3.3
2	I	2070	ILE	3.3
1	B	558	LEU	3.3
2	I	1946	LEU	3.3
2	J	1160	PHE	3.3
2	L	559	PHE	3.3
2	I	1906	ASN	3.2
2	H	663	ILE	3.2
2	H	1969	LEU	3.2
2	J	1467	LEU	3.2
2	L	1042	PHE	3.2
2	I	2074	TRP	3.2
2	J	122	ILE	3.2
2	G	1259	LEU	3.2
2	K	611	THR	3.2
2	G	494	ILE	3.2
2	I	435	ILE	3.2
2	H	25	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
2	K	142	ALA	3.2
2	K	488	PRO	3.2
2	K	868	LEU	3.2
2	G	635	TYR	3.2
2	K	1041	TRP	3.2
2	L	1951	ILE	3.2
2	J	566	VAL	3.2
2	K	572	TRP	3.2
2	J	276	LEU	3.2
2	J	513	ILE	3.2
2	K	946	HIS	3.2
2	L	627	HIS	3.2
2	G	298	ALA	3.2
2	L	1196	PHE	3.2
2	K	92	GLU	3.2
2	G	490	LEU	3.2
2	G	744	THR	3.2
2	H	807	PHE	3.2
1	D	570	TYR	3.2
2	H	290	VAL	3.2
2	K	390	VAL	3.2
2	K	1425	PRO	3.2
2	G	783	GLY	3.2
2	H	1867	MET	3.2
2	J	102	LEU	3.2
1	B	1519	VAL	3.2
2	H	606	ALA	3.2
2	I	72	VAL	3.2
2	L	558	LEU	3.2
2	G	290	VAL	3.2
2	I	505	THR	3.2
2	K	140	TYR	3.2
2	K	69	PRO	3.2
2	H	543	GLY	3.2
2	J	867	LYS	3.2
1	D	1620	PHE	3.2
2	L	1833	PHE	3.2
2	H	193	TYR	3.2
2	J	1435	TYR	3.2
2	L	1580	TYR	3.2
1	E	79	LEU	3.1
2	L	1121	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
2	H	812	PHE	3.1
2	H	1916	GLU	3.1
2	I	1370	LEU	3.1
2	J	868	LEU	3.1
2	H	524	ILE	3.1
1	B	555	GLN	3.1
2	K	1050	SER	3.1
1	C	18	LEU	3.1
1	E	880	LEU	3.1
2	G	281	GLY	3.1
2	G	1850	VAL	3.1
2	K	1530	TYR	3.1
2	H	580	LEU	3.1
2	K	268	LEU	3.1
1	B	44	ILE	3.1
1	C	584	ILE	3.1
2	I	1234	ILE	3.1
2	I	1917	ILE	3.1
2	I	617	PHE	3.1
2	L	1694	PHE	3.1
1	A	26	VAL	3.1
2	L	1126	GLU	3.1
2	L	1840	GLU	3.1
2	G	176	GLN	3.1
1	F	14	LEU	3.1
2	I	1936	LEU	3.1
2	J	1053	ILE	3.1
2	K	227	ILE	3.1
2	K	364	HIS	3.1
2	G	32	GLU	3.1
2	G	45	ALA	3.1
2	K	986	LEU	3.1
2	K	1030	PHE	3.1
2	H	1883	MET	3.1
2	K	1999	ARG	3.1
2	L	190	TYR	3.1
2	L	255	LEU	3.1
2	J	589	PHE	3.1
2	K	1090	ILE	3.1
2	K	1818	PHE	3.1
2	J	598	LEU	3.1
2	J	1350	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
2	K	951	ILE	3.1
1	B	778	LEU	3.1
2	H	1244	LEU	3.1
2	L	293	ALA	3.1
2	L	1994	ALA	3.1
2	K	694	ALA	3.1
2	L	1246	LEU	3.1
2	G	109	PHE	3.1
2	I	1481	ILE	3.1
2	J	740	ILE	3.1
2	H	603	VAL	3.1
2	H	1620	VAL	3.1
1	E	18	LEU	3.1
2	H	99	LEU	3.1
2	H	1350	ILE	3.1
2	K	297	THR	3.1
1	C	9	LEU	3.1
2	J	284	GLY	3.0
2	J	1176	PHE	3.0
2	G	761	ILE	3.0
2	K	661	ASN	3.0
2	L	178	ASN	3.0
2	L	1234	ILE	3.0
2	K	1028	VAL	3.0
2	G	815	ARG	3.0
2	H	208	LEU	3.0
2	K	1246	LEU	3.0
2	H	1692	TYR	3.0
2	J	791	TYR	3.0
2	H	1361	ILE	3.0
2	J	501	TRP	3.0
2	L	1347	ASP	3.0
2	K	1065	CYS	3.0
2	G	487	ILE	3.0
2	G	664	TYR	3.0
2	I	1348	PHE	3.0
2	H	38	PRO	3.0
1	A	77	GLN	3.0
2	K	1225	SER	3.0
2	K	717	LYS	3.0
2	L	294	ALA	3.0
2	L	180	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	F	1460	PRO	3.0
2	L	260	HIS	3.0
2	L	1141	LYS	3.0
2	H	1067	LEU	3.0
2	H	2010	LEU	3.0
1	E	1220	ASN	3.0
2	L	631	ALA	3.0
1	E	560	LYS	3.0
2	H	1429	VAL	3.0
2	K	1374	VAL	3.0
2	K	1939	LEU	3.0
1	B	1274	LYS	3.0
2	G	1841	TYR	3.0
2	G	390	VAL	3.0
2	K	1336	VAL	3.0
2	L	581	VAL	3.0
2	J	578	PRO	3.0
2	J	935	VAL	3.0
2	K	1031	VAL	3.0
2	L	1599	TYR	3.0
2	L	1693	VAL	3.0
1	D	1574	LEU	3.0
2	G	1969	LEU	3.0
2	J	33	PHE	3.0
2	K	674	ILE	3.0
2	L	1055	ALA	3.0
2	K	119	VAL	3.0
2	H	1919	ASN	3.0
2	I	1395	LEU	3.0
2	L	630	LEU	3.0
2	L	1619	LEU	3.0
2	L	1261	PHE	3.0
2	H	32	GLU	3.0
1	D	9	LEU	3.0
2	G	1943	LEU	3.0
2	K	47	GLN	3.0
1	C	954	ARG	2.9
2	K	437	ALA	2.9
2	K	791	TYR	2.9
2	L	1885	ALA	2.9
1	A	1554	LEU	2.9
2	G	113	PHE	2.9

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Mol	Chain	Res	Type	RSRZ
2	H	1490	PHE	2.9
2	K	1777	THR	2.9
2	J	1401	ILE	2.9
1	E	963	LEU	2.9
2	J	1915	LEU	2.9
2	L	1289	TYR	2.9
2	J	304	PHE	2.9
2	G	376	ARG	2.9
2	H	166	ASN	2.9
1	B	608	LYS	2.9
2	I	627	HIS	2.9
2	K	512	HIS	2.9
1	E	577	LEU	2.9
2	I	1195	LEU	2.9
2	K	217	ALA	2.9
1	E	569	LEU	2.9
2	J	147	ALA	2.9
2	J	1920	TYR	2.9
1	D	541	VAL	2.9
1	E	1619	ALA	2.9
2	G	514	VAL	2.9
2	I	628	ILE	2.9
2	K	2050	ILE	2.9
2	K	1349	ALA	2.9
1	F	22	PHE	2.9
2	J	757	PHE	2.9
2	K	808	ASP	2.9
1	A	424	VAL	2.9
1	E	558	LEU	2.9
2	L	1904	VAL	2.9
2	L	1914	LEU	2.9
2	L	1345	PRO	2.9
2	G	629	GLU	2.9
2	I	287	GLN	2.9
2	J	91	ASP	2.9
2	I	1032	PRO	2.9
2	I	1433	PHE	2.9
2	L	1730	TYR	2.9
2	H	22	ARG	2.9
2	J	1999	ARG	2.9
2	K	1667	VAL	2.9
2	G	791	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
2	J	1263	PHE	2.9
1	A	42	GLU	2.9
2	G	297	THR	2.9
2	J	843	TRP	2.9
2	L	611	THR	2.9
2	G	645	ILE	2.9
2	H	1366	ILE	2.9
2	I	1930	ALA	2.9
2	I	1954	GLN	2.9
2	J	1029	PRO	2.9
1	D	1287	LEU	2.9
2	J	36	LEU	2.9
2	J	318	ILE	2.9
1	C	75	GLN	2.9
1	D	566	PHE	2.9
2	J	2055	PHE	2.9
2	L	1324	PHE	2.9
2	G	382	LEU	2.9
2	I	467	ILE	2.9
2	I	1998	LEU	2.9
2	K	494	ILE	2.9
2	K	691	THR	2.9
1	F	742	TYR	2.9
2	L	860	GLU	2.9
2	I	1488	LEU	2.9
2	J	777	VAL	2.8
2	K	455	VAL	2.8
2	L	80	ILE	2.8
1	E	578	ALA	2.8
2	J	2077	TYR	2.8
1	F	18	LEU	2.8
2	G	518	PRO	2.8
2	I	1429	VAL	2.8
2	G	617	PHE	2.8
2	J	1016	PHE	2.8
2	J	1116	PHE	2.8
2	L	617	PHE	2.8
2	K	1124	THR	2.8
1	D	800	PRO	2.8
2	G	601	PRO	2.8
2	K	602	PRO	2.8
2	L	1836	HIS	2.8

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Mol	Chain	Res	Type	RSRZ
2	K	307	ALA	2.8
2	G	472	THR	2.8
2	H	255	LEU	2.8
2	K	85	HIS	2.8
2	L	42	HIS	2.8
2	I	311	ALA	2.8
1	A	656	LEU	2.8
1	C	1517	LEU	2.8
2	K	1903	VAL	2.8
2	J	758	HIS	2.8
2	L	38	PRO	2.8
1	F	75	GLN	2.8
2	G	690	LEU	2.8
2	J	258	LEU	2.8
2	L	1921	ASN	2.8
2	L	2013	GLY	2.8
2	K	264	THR	2.8
2	K	499	VAL	2.8
2	L	1357	ILE	2.8
2	J	1891	ILE	2.8
2	I	1916	GLU	2.8
2	H	742	GLN	2.8
2	L	1805	PHE	2.8
2	G	282	THR	2.8
1	D	799	LEU	2.8
1	E	1226	VAL	2.8
1	F	78	ILE	2.8
2	G	505	THR	2.8
2	H	588	THR	2.8
2	K	2062	THR	2.8
2	I	2035	LEU	2.8
2	K	1371	LEU	2.8
1	A	566	PHE	2.8
2	H	201	ILE	2.8
1	D	1492	GLU	2.8
2	I	717	LYS	2.8
2	K	376	ARG	2.8
2	I	286	SER	2.8
2	H	39	THR	2.8
2	H	1419	LEU	2.8
2	H	1834	ALA	2.8
2	L	1144	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
2	L	2077	TYR	2.8
2	J	1204	VAL	2.8
2	H	1164	ILE	2.8
2	J	1988	GLN	2.8
1	C	20	TYR	2.8
2	K	809	GLY	2.8
2	H	183	PHE	2.8
2	L	716	PHE	2.8
2	G	513	ILE	2.7
2	G	604	MET	2.7
2	J	631	ALA	2.7
2	J	745	GLY	2.7
2	G	605	VAL	2.7
2	G	105	ILE	2.7
2	G	258	LEU	2.7
2	H	258	LEU	2.7
2	I	331	LEU	2.7
2	H	719	GLY	2.7
1	C	552	ILE	2.7
1	E	94	PRO	2.7
2	I	180	GLU	2.7
2	K	1357	ILE	2.7
1	D	1274	LYS	2.7
2	J	1456	LEU	2.7
2	L	140	TYR	2.7
2	G	381	SER	2.7
2	G	1200	ARG	2.7
2	L	152	LYS	2.7
2	J	1969	LEU	2.7
1	C	1461	PHE	2.7
2	I	606	ALA	2.7
2	L	171	SER	2.7
2	L	687	ILE	2.7
2	H	1122	LYS	2.7
1	B	963	LEU	2.7
2	I	252	LEU	2.7
2	I	816	MET	2.7
1	A	570	TYR	2.7
2	I	1350	ILE	2.7
2	K	223	LYS	2.7
2	I	541	LEU	2.7
2	I	1805	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
2	H	376	ARG	2.7
2	K	182	TYR	2.7
2	G	1589	PRO	2.7
2	H	2004	PRO	2.7
2	K	90	GLY	2.7
2	K	1732	PHE	2.7
2	L	537	VAL	2.7
2	H	635	TYR	2.7
2	J	140	TYR	2.7
1	B	583	GLN	2.7
2	K	1488	LEU	2.7
2	L	1969	LEU	2.7
2	L	23	PRO	2.7
2	L	1620	VAL	2.7
2	I	926	LEU	2.7
2	J	792	LEU	2.7
2	K	382	LEU	2.7
2	L	75	LEU	2.7
2	I	1451	GLU	2.7
1	A	1538	ILE	2.7
2	G	1164	ILE	2.7
2	J	105	ILE	2.7
2	K	1472	TRP	2.7
2	H	1835	GLY	2.7
2	I	173	PHE	2.7
2	J	328	ARG	2.7
2	J	526	VAL	2.7
2	L	2043	VAL	2.7
1	C	28	TRP	2.7
2	H	478	LEU	2.7
2	L	1488	LEU	2.7
2	G	910	PHE	2.7
1	D	1506	ALA	2.7
2	L	865	ILE	2.7
2	G	1939	LEU	2.6
2	L	690	LEU	2.6
2	L	1371	LEU	2.6
2	J	265	CYS	2.6
2	K	1770	ASN	2.6
2	G	782	PHE	2.6
2	H	1697	GLN	2.6
2	J	1202	MET	2.6

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Mol	Chain	Res	Type	RSRZ
2	L	1926	GLN	2.6
2	J	865	ILE	2.6
2	K	253	ILE	2.6
2	L	1350	ILE	2.6
2	L	1399	ALA	2.6
1	F	799	LEU	2.6
2	L	677	LEU	2.6
2	L	1244	LEU	2.6
2	L	1335	PHE	2.6
2	G	1068	GLN	2.6
2	H	526	VAL	2.6
1	D	756	ILE	2.6
1	E	1612	ILE	2.6
2	G	774	ILE	2.6
2	H	28	HIS	2.6
2	H	1034	LEU	2.6
2	H	1619	LEU	2.6
2	K	325	ALA	2.6
2	L	231	LEU	2.6
2	L	597	LEU	2.6
2	K	501	TRP	2.6
1	C	39	LYS	2.6
1	F	777	LEU	2.6
2	I	276	LEU	2.6
2	I	558	LEU	2.6
2	K	1856	LEU	2.6
2	L	208	LEU	2.6
2	I	1993	PHE	2.6
2	J	512	HIS	2.6
2	I	1947	LYS	2.6
2	K	1048	TRP	2.6
2	J	1804	GLN	2.6
2	H	1998	LEU	2.6
2	K	122	ILE	2.6
2	L	789	TYR	2.6
2	G	603	VAL	2.6
2	H	604	MET	2.6
2	I	808	ASP	2.6
2	K	1224	GLN	2.6
1	A	1441	LEU	2.6
1	E	545	LEU	2.6
2	G	1066	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
2	L	724	ILE	2.6
2	J	293	ALA	2.6
2	K	744	THR	2.6
2	G	272	PRO	2.6
2	I	175	GLY	2.6
2	I	557	GLU	2.6
2	I	1844	LEU	2.6
2	K	1234	ILE	2.6
2	L	1366	ILE	2.6
1	D	1632	ALA	2.6
2	G	611	THR	2.6
2	I	1793	TYR	2.6
2	K	78	ARG	2.6
2	H	383	VAL	2.6
2	J	174	GLY	2.6
2	J	557	GLU	2.6
2	I	1915	LEU	2.6
1	B	1318	PHE	2.6
2	J	563	ASP	2.6
2	J	619	ALA	2.6
2	J	775	VAL	2.6
2	K	746	GLY	2.6
2	K	1869	VAL	2.6
1	A	1578	LEU	2.6
2	G	1838	LEU	2.6
2	L	26	LEU	2.6
1	F	76	ARG	2.6
2	G	352	SER	2.6
2	K	193	TYR	2.6
2	G	660	VAL	2.6
2	H	521	VAL	2.6
1	D	853	MET	2.6
2	G	24	LEU	2.6
2	H	43	PHE	2.6
2	H	1324	PHE	2.6
2	I	1732	PHE	2.6
2	K	439	PHE	2.6
2	L	1596	PHE	2.6
1	D	863	VAL	2.6
2	H	1227	LYS	2.6
2	G	1844	LEU	2.6
1	A	78	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
2	J	1293	TRP	2.6
2	G	694	ALA	2.6
2	J	311	ALA	2.6
1	C	648	LEU	2.6
1	E	1425	LEU	2.6
1	F	1	MET	2.6
2	H	1032	PRO	2.6
2	K	96	PRO	2.6
2	K	1032	PRO	2.6
2	J	297	THR	2.6
2	L	1606	ILE	2.6
2	G	35	PHE	2.5
2	I	1473	PHE	2.5
2	H	783	GLY	2.5
2	K	1244	LEU	2.5
2	H	1891	ILE	2.5
2	L	169	ILE	2.5
1	D	75	GLN	2.5
2	K	399	TYR	2.5
1	C	551	LEU	2.5
2	G	356	LEU	2.5
2	I	75	LEU	2.5
2	J	1571	LEU	2.5
2	H	2070	ILE	2.5
2	J	617	PHE	2.5
2	K	812	PHE	2.5
2	L	279	PHE	2.5
1	F	20	TYR	2.5
1	F	43	ARG	2.5
2	J	1061	VAL	2.5
2	K	813	GLY	2.5
2	I	1467	LEU	2.5
2	I	1745	LEU	2.5
2	I	169	ILE	2.5
2	K	1734	ILE	2.5
2	J	1273	PRO	2.5
2	K	712	ARG	2.5
2	H	72	VAL	2.5
2	I	603	VAL	2.5
2	K	197	VAL	2.5
2	H	372	LEU	2.5
2	I	1563	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
2	J	255	LEU	2.5
1	D	743	VAL	2.5
1	D	1633	GLN	2.5
2	I	1068	GLN	2.5
2	I	1336	VAL	2.5
2	G	1371	LEU	2.5
2	I	1939	LEU	2.5
2	H	810	CYS	2.5
2	H	167	VAL	2.5
2	H	466	VAL	2.5
2	I	2046	LYS	2.5
2	I	1326	HIS	2.5
2	K	1693	VAL	2.5
2	G	427	ARG	2.5
1	F	552	ILE	2.5
2	J	2001	ILE	2.5
2	L	265	CYS	2.5
2	L	1884	CYS	2.5
2	J	694	ALA	2.5
2	I	1812	LEU	2.5
2	J	1371	LEU	2.5
2	L	868	LEU	2.5
2	H	535	THR	2.5
2	H	1357	ILE	2.5
2	J	227	ILE	2.5
2	K	1945	ILE	2.5
2	K	1570	GLU	2.5
2	G	19	GLN	2.5
2	G	1456	LEU	2.5
2	I	1761	TYR	2.5
2	L	1844	LEU	2.5
2	L	204	ILE	2.5
2	L	2049	GLU	2.5
1	E	20	TYR	2.5
2	G	174	GLY	2.5
2	G	558	LEU	2.5
2	H	762	LEU	2.5
2	I	1305	LEU	2.5
2	K	394	PRO	2.5
2	H	516	PHE	2.5
2	I	1227	LYS	2.5
2	I	692	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
2	J	263	ILE	2.5
2	J	1945	ILE	2.5
2	K	396	ILE	2.5
2	G	277	GLU	2.5
2	H	27	THR	2.5
1	A	558	LEU	2.5
2	I	312	VAL	2.5
2	J	1395	LEU	2.5
2	H	1160	PHE	2.5
2	I	1405	ILE	2.5
1	E	570	TYR	2.5
2	G	275	LEU	2.5
2	I	1596	PHE	2.5
2	I	1066	ILE	2.5
2	K	1772	ASP	2.5
2	I	1126	GLU	2.5
2	K	1743	LYS	2.4
1	A	1344	THR	2.4
2	H	1841	TYR	2.4
2	H	2039	TYR	2.4
2	I	1435	TYR	2.4
2	I	1600	ALA	2.4
2	L	304	PHE	2.4
1	A	59	ARG	2.4
1	A	681	ILE	2.4
2	K	714	ILE	2.4
2	L	1680	GLN	2.4
1	E	42	GLU	2.4
1	B	837	LEU	2.4
2	J	90	GLY	2.4
2	L	2035	LEU	2.4
2	G	439	PHE	2.4
2	J	1504	TYR	2.4
2	K	1123	ALA	2.4
1	F	88	ILE	2.4
2	G	1361	ILE	2.4
2	H	486	ILE	2.4
1	A	541	VAL	2.4
1	B	1637	VAL	2.4
1	E	841	GLY	2.4
2	H	655	GLY	2.4
2	I	1456	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
2	K	32	GLU	2.4
2	K	718	PRO	2.4
1	F	1267	LEU	2.4
2	I	275	LEU	2.4
2	I	1867	MET	2.4
2	I	1914	LEU	2.4
2	L	1540	VAL	2.4
2	H	743	TRP	2.4
2	K	43	PHE	2.4
2	L	2054	TYR	2.4
2	L	1859	VAL	2.4
2	L	2061	LEU	2.4
1	A	1489	PHE	2.4
2	L	1340	LYS	2.4
1	D	78	ILE	2.4
2	I	742	GLN	2.4
2	J	518	PRO	2.4
2	J	1417	GLY	2.4
2	K	83	VAL	2.4
2	K	1070	PRO	2.4
2	K	1571	LEU	2.4
2	I	284	GLY	2.4
2	I	1160	PHE	2.4
2	G	876	TRP	2.4
2	K	2074	TRP	2.4
1	C	1556	ILE	2.4
2	I	883	ILE	2.4
2	J	768	ILE	2.4
2	K	352	SER	2.4
1	B	1361	VAL	2.4
1	D	1642	LEU	2.4
1	F	1503	LEU	2.4
2	I	1175	MET	2.4
2	J	594	MET	2.4
2	K	792	LEU	2.4
2	K	39	THR	2.4
1	D	20	TYR	2.4
2	K	542	ALA	2.4
2	G	810	CYS	2.4
2	I	1242	ILE	2.4
2	H	558	LEU	2.4
2	I	1230	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
2	L	1202	MET	2.4
2	H	611	THR	2.4
2	I	602	PRO	2.4
2	K	98	ASN	2.4
2	G	1349	ALA	2.4
2	J	1761	TYR	2.4
2	L	1929	ALA	2.4
2	G	169	ILE	2.4
1	F	1519	VAL	2.4
2	L	1842	SER	2.4
2	K	1805	PHE	2.4
2	H	1144	TYR	2.4
2	I	1268	GLU	2.4
2	I	1356	ALA	2.4
2	K	659	THR	2.4
1	D	844	ILE	2.4
2	H	1917	ILE	2.4
2	I	1366	ILE	2.4
1	A	18	LEU	2.4
1	F	778	LEU	2.4
2	J	104	LEU	2.4
2	G	393	GLY	2.4
2	H	1038	PHE	2.4
2	J	1144	TYR	2.4
1	B	1538	ILE	2.4
2	I	172	ILE	2.4
2	L	1066	ILE	2.4
2	J	873	VAL	2.4
2	J	1339	GLY	2.4
2	L	514	VAL	2.4
2	J	2005	PHE	2.4
2	G	1734	ILE	2.4
2	I	1924	ASN	2.4
2	H	527	LEU	2.4
2	K	621	THR	2.4
1	A	553	ARG	2.3
2	J	1616	VAL	2.3
1	F	1461	PHE	2.3
2	H	292	ALA	2.3
2	H	690	LEU	2.3
2	H	1936	LEU	2.3
2	I	711	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
2	J	1033	ALA	2.3
2	L	2039	TYR	2.3
2	I	777	VAL	2.3
2	J	1071	VAL	2.3
2	K	609	THR	2.3
2	L	1436	ARG	2.3
1	E	1669	PHE	2.3
2	K	1309	PHE	2.3
2	L	1433	PHE	2.3
2	H	816	MET	2.3
2	J	1427	MET	2.3
2	J	1127	GLU	2.3
2	K	557	GLU	2.3
1	C	545	LEU	2.3
1	D	775	LEU	2.3
1	E	340	LEU	2.3
1	E	422	LEU	2.3
2	H	247	PRO	2.3
2	I	204	ILE	2.3
2	J	331	LEU	2.3
2	J	351	LEU	2.3
2	K	38	PRO	2.3
2	K	1087	LEU	2.3
1	E	48	GLY	2.3
2	I	76	VAL	2.3
2	J	1358	THR	2.3
2	K	749	GLY	2.3
2	L	1227	LYS	2.3
2	H	1175	MET	2.3
2	I	594	MET	2.3
1	B	90	TYR	2.3
1	D	552	ILE	2.3
1	E	839	ILE	2.3
2	J	294	ALA	2.3
2	K	481	LEU	2.3
2	L	331	LEU	2.3
2	G	76	VAL	2.3
2	G	607	GLY	2.3
2	J	749	GLY	2.3
2	K	1886	VAL	2.3
2	G	816	MET	2.3
2	I	688	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	E	14	LEU	2.3
1	F	90	TYR	2.3
2	G	631	ALA	2.3
2	G	692	ILE	2.3
2	G	1195	LEU	2.3
2	G	1936	LEU	2.3
2	H	435	ILE	2.3
2	I	1571	LEU	2.3
2	J	879	LEU	2.3
2	L	1192	LEU	2.3
2	G	867	LYS	2.3
2	I	49	LYS	2.3
2	H	757	PHE	2.3
2	L	466	VAL	2.3
2	L	603	VAL	2.3
2	J	860	GLU	2.3
2	H	1989	LEU	2.3
2	G	1325	VAL	2.3
2	H	1232	VAL	2.3
2	J	1038	PHE	2.3
2	K	993	VAL	2.3
2	K	1827	VAL	2.3
2	I	750	GLY	2.3
2	L	1032	PRO	2.3
1	B	28	TRP	2.3
2	G	486	ILE	2.3
2	K	353	ILE	2.3
2	L	741	LEU	2.3
2	G	491	VAL	2.3
2	I	73	VAL	2.3
2	I	1050	SER	2.3
2	K	1774	SER	2.3
2	I	817	MET	2.3
2	J	882	LYS	2.3
1	A	778	LEU	2.3
2	G	868	LEU	2.3
2	K	287	GLN	2.3
2	K	1047	LEU	2.3
2	L	102	LEU	2.3
2	L	879	LEU	2.3
2	G	626	TYR	2.3
2	I	1125	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
2	I	1635	TYR	2.3
2	G	1490	PHE	2.3
2	J	290	VAL	2.3
2	L	350	MET	2.3
2	G	401	LEU	2.3
2	H	275	LEU	2.3
2	J	225	LEU	2.3
2	J	1195	LEU	2.3
2	J	743	TRP	2.3
1	C	804	ASN	2.3
2	I	1324	PHE	2.3
2	K	1289	TYR	2.3
2	J	505	THR	2.3
2	K	2017	PHE	2.3
2	L	812	PHE	2.3
2	K	99	LEU	2.3
2	J	285	HIS	2.3
2	J	902	ILE	2.3
2	L	1206	ILE	2.3
2	L	1326	HIS	2.3
1	D	1209	PHE	2.3
2	G	1348	PHE	2.3
2	H	1433	PHE	2.3
2	H	1833	PHE	2.3
2	J	1805	PHE	2.3
2	I	283	THR	2.3
1	A	963	LEU	2.3
2	H	1128	PRO	2.3
2	K	816	MET	2.3
2	J	260	HIS	2.3
2	K	559	PHE	2.3
2	G	755	GLU	2.3
2	G	788	THR	2.3
1	E	656	LEU	2.3
1	D	1556	ILE	2.3
1	A	742	TYR	2.3
2	H	1902	TYR	2.3
2	I	1949	GLN	2.3
2	J	826	LYS	2.3
2	K	408	VAL	2.3
2	K	775	VAL	2.3
2	H	876	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
2	J	520	GLY	2.2
1	C	799	LEU	2.2
1	D	1554	LEU	2.2
2	G	1915	LEU	2.2
2	G	1956	LEU	2.2
2	I	690	LEU	2.2
2	I	986	LEU	2.2
2	K	1427	MET	2.2
2	K	1799	LEU	2.2
2	L	1679	LEU	2.2
2	G	201	ILE	2.2
2	H	540	ILE	2.2
2	H	1997	PRO	2.2
2	I	663	ILE	2.2
1	C	573	VAL	2.2
1	A	1520	ALA	2.2
2	G	1954	GLN	2.2
2	H	1910	VAL	2.2
2	I	261	TYR	2.2
2	J	167	VAL	2.2
2	K	1651	VAL	2.2
2	J	519	GLY	2.2
1	E	1517	LEU	2.2
1	F	551	LEU	2.2
2	G	1357	ILE	2.2
2	I	740	ILE	2.2
2	J	711	ILE	2.2
2	K	761	ILE	2.2
2	K	1294	PHE	2.2
2	L	1401	ILE	2.2
2	I	1200	ARG	2.2
2	H	709	LEU	2.2
2	J	1653	LEU	2.2
1	F	24	MET	2.2
2	I	807	PHE	2.2
2	I	1904	VAL	2.2
2	K	2058	VAL	2.2
2	G	695	GLY	2.2
2	H	1599	TYR	2.2
2	G	1411	LYS	2.2
1	F	908	ILE	2.2
2	I	1038	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
2	K	2048	PHE	2.2
2	G	248	VAL	2.2
2	I	1204	VAL	2.2
1	C	43	ARG	2.2
2	H	2077	TYR	2.2
2	K	495	THR	2.2
1	C	79	LEU	2.2
1	D	1303	LEU	2.2
2	K	215	TRP	2.2
2	L	1133	LEU	2.2
2	G	1225	SER	2.2
1	B	584	ILE	2.2
1	C	908	ILE	2.2
1	E	863	VAL	2.2
2	G	101	VAL	2.2
2	H	172	ILE	2.2
2	J	1643	VAL	2.2
2	K	1917	ILE	2.2
2	L	487	ILE	2.2
2	L	566	VAL	2.2
2	H	532	LYS	2.2
2	H	528	THR	2.2
2	H	1615	ALA	2.2
2	I	140	TYR	2.2
2	K	505	THR	2.2
2	K	588	THR	2.2
2	L	267	THR	2.2
2	L	606	ALA	2.2
1	B	740	LEU	2.2
2	I	1826	LEU	2.2
2	J	810	CYS	2.2
1	D	28	TRP	2.2
2	G	663	ILE	2.2
2	H	589	PHE	2.2
2	H	605	VAL	2.2
2	H	815	ARG	2.2
2	I	811	MET	2.2
2	I	1766	PHE	2.2
2	H	1942	VAL	2.2
2	J	451	ILE	2.2
2	J	460	ILE	2.2
2	J	1987	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
2	K	149	ARG	2.2
2	K	552	VAL	2.2
2	J	100	GLU	2.2
1	D	745	PRO	2.2
2	H	140	TYR	2.2
2	J	543	GLY	2.2
1	A	1574	LEU	2.2
1	B	79	LEU	2.2
1	C	14	LEU	2.2
1	E	799	LEU	2.2
1	F	1673	LEU	2.2
2	H	1358	THR	2.2
2	L	368	THR	2.2
2	K	1094	HIS	2.2
2	L	594	MET	2.2
1	A	797	VAL	2.2
1	F	1379	VAL	2.2
2	J	1769	VAL	2.2
2	L	1130	ILE	2.2
2	I	171	SER	2.2
2	H	1926	GLN	2.2
2	J	478	LEU	2.2
2	G	512	HIS	2.2
2	I	227	ILE	2.2
2	J	1234	ILE	2.2
2	J	2050	ILE	2.2
2	L	73	VAL	2.2
2	L	1857	VAL	2.2
2	H	265	CYS	2.2
1	F	1287	LEU	2.2
2	I	1235	LYS	2.2
2	K	1288	PHE	2.2
2	L	1016	PHE	2.2
2	G	714	ILE	2.2
2	G	1051	GLU	2.2
2	L	1850	VAL	2.2
2	L	1883	MET	2.2
2	L	501	TRP	2.2
1	C	1574	LEU	2.2
1	D	1142	LEU	2.2
2	G	320	LEU	2.2
2	J	541	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
2	J	941	LEU	2.2
2	L	465	LEU	2.2
1	A	22	PHE	2.2
1	E	35	ILE	2.2
2	H	469	VAL	2.2
2	L	435	ILE	2.2
2	I	2000	GLY	2.2
1	C	554	ARG	2.2
2	J	796	TRP	2.2
1	A	655	ALA	2.2
1	C	577	LEU	2.2
1	C	655	ALA	2.2
2	G	1692	TYR	2.2
2	H	776	LEU	2.2
2	H	926	LEU	2.2
2	I	53	LEU	2.2
2	J	141	TYR	2.2
2	J	1087	LEU	2.2
2	L	186	LEU	2.2
2	L	1389	LEU	2.2
1	E	1461	PHE	2.2
2	H	19	GLN	2.2
2	L	1895	PHE	2.2
1	B	45	VAL	2.2
2	J	1175	MET	2.2
2	L	1429	VAL	2.2
2	L	1942	VAL	2.2
2	I	22	ARG	2.2
2	H	1467	LEU	2.1
2	J	776	LEU	2.1
2	K	1969	LEU	2.1
2	L	1800	LEU	2.1
2	J	52	PHE	2.1
2	H	468	PRO	2.1
2	K	815	ARG	2.1
2	K	1361	ILE	2.1
2	K	1850	VAL	2.1
2	L	663	ILE	2.1
2	L	1888	PRO	2.1
2	L	1903	VAL	2.1
1	A	61	LEU	2.1
1	B	1443	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
2	H	104	LEU	2.1
2	H	1456	LEU	2.1
2	I	258	LEU	2.1
2	L	228	LEU	2.1
2	L	1612	THR	2.1
2	K	45	ALA	2.1
1	D	1625	PHE	2.1
2	L	782	PHE	2.1
2	G	963	ILE	2.1
2	H	935	VAL	2.1
2	J	540	ILE	2.1
2	K	489	GLU	2.1
2	L	2014	VAL	2.1
2	J	1480	ASP	2.1
2	K	1069	GLY	2.1
2	J	1246	LEU	2.1
1	F	28	TRP	2.1
2	G	293	ALA	2.1
2	K	443	TYR	2.1
2	G	757	PHE	2.1
2	L	311	ALA	2.1
2	L	744	THR	2.1
2	H	1051	GLU	2.1
2	K	103	LYS	2.1
2	L	101	VAL	2.1
2	L	1590	ILE	2.1
2	L	1891	ILE	2.1
1	C	585	MET	2.1
2	J	310	ARG	2.1
2	J	962	PHE	2.1
2	J	1895	PHE	2.1
2	J	1065	CYS	2.1
2	K	472	THR	2.1
2	H	590	VAL	2.1
2	H	628	ILE	2.1
2	J	714	ILE	2.1
1	B	745	PRO	2.1
2	G	677	LEU	2.1
2	I	434	PRO	2.1
2	J	817	MET	2.1
2	K	519	GLY	2.1
2	L	177	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
2	L	1826	LEU	2.1
2	K	899	ARG	2.1
2	L	2011	ARG	2.1
1	C	680	VAL	2.1
2	G	1903	VAL	2.1
2	H	289	ILE	2.1
2	H	865	ILE	2.1
2	I	1747	VAL	2.1
2	K	166	ASN	2.1
2	K	1241	GLU	2.1
2	K	2070	ILE	2.1
2	L	609	THR	2.1
2	G	776	LEU	2.1
1	B	557	ARG	2.1
1	C	1274	LYS	2.1
1	D	1461	PHE	2.1
2	J	1902	TYR	2.1
2	K	962	PHE	2.1
1	A	1553	VAL	2.1
2	K	1531	GLU	2.1
2	J	628	ILE	2.1
2	K	513	ILE	2.1
2	L	455	VAL	2.1
2	H	58	GLN	2.1
2	K	742	GLN	2.1
2	L	824	THR	2.1
2	L	1953	ILE	2.1
2	I	1856	LEU	2.1
2	J	1867	MET	2.1
2	K	783	GLY	2.1
2	K	858	LEU	2.1
2	L	986	LEU	2.1
2	L	2010	LEU	2.1
1	F	81	TYR	2.1
2	K	1841	TYR	2.1
2	H	1859	VAL	2.1
2	J	1366	ILE	2.1
2	K	914	TRP	2.1
2	L	291	VAL	2.1
1	C	555	GLN	2.1
1	C	1554	LEU	2.1
2	G	1244	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
2	I	1246	LEU	2.1
2	I	1653	LEU	2.1
2	L	376	ARG	2.1
2	H	1596	PHE	2.1
2	G	1535	SER	2.1
2	I	139	ALA	2.1
2	L	193	TYR	2.1
2	J	629	GLU	2.1
1	F	1226	VAL	2.1
2	G	1234	ILE	2.1
2	G	1951	ILE	2.1
2	H	204	ILE	2.1
2	H	291	VAL	2.1
1	B	332	GLN	2.1
1	B	1303	LEU	2.1
1	C	557	ARG	2.1
2	I	902	ILE	2.1
2	K	2075	ASP	2.1
2	G	143	GLY	2.1
2	H	861	MET	2.1
1	E	22	PHE	2.1
2	G	691	THR	2.1
2	K	1231	THR	2.1
2	L	2020	PHE	2.1
2	L	296	ALA	2.1
1	A	839	ILE	2.1
1	D	908	ILE	2.1
2	G	1871	VAL	2.1
1	E	36	LEU	2.1
2	J	1068	GLN	2.1
2	K	1867	MET	2.1
2	J	568	PHE	2.1
2	K	737	PHE	2.1
1	A	1623	THR	2.1
2	J	824	THR	2.1
2	J	447	ALA	2.1
2	J	1040	TYR	2.1
1	A	1226	VAL	2.1
2	H	645	ILE	2.1
1	A	837	LEU	2.1
1	B	774	LEU	2.1
1	D	778	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	9	LEU	2.1
2	K	814	SER	2.1
1	A	708	GLN	2.1
2	I	58	GLN	2.1
2	I	1016	PHE	2.1
2	H	1920	TYR	2.1
2	J	1887	ASN	2.1
2	L	1906	ASN	2.1
1	B	573	VAL	2.1
2	I	1349	ALA	2.1
1	A	9	LEU	2.1
1	C	681	ILE	2.1
2	K	2061	LEU	2.1
1	D	451	HIS	2.1
2	J	1479	HIS	2.1
2	K	1375	HIS	2.1
2	L	1916	GLU	2.0
2	K	838	VAL	2.0
2	L	1509	THR	2.0
1	B	1266	LEU	2.0
2	G	1962	LEU	2.0
2	J	1492	LEU	2.0
2	J	1679	LEU	2.0
2	K	687	ILE	2.0
2	L	1370	LEU	2.0
2	L	1589	PRO	2.0
2	K	1966	ARG	2.0
2	L	1172	ARG	2.0
1	E	573	VAL	2.0
2	G	544	ALA	2.0
2	J	1730	TYR	2.0
2	K	256	VAL	2.0
2	L	1902	TYR	2.0
1	F	681	ILE	2.0
1	D	1225	GLY	2.0
1	D	1503	LEU	2.0
1	E	17	LEU	2.0
1	E	1148	LEU	2.0
2	I	1130	ILE	2.0
2	I	1746	THR	2.0
2	J	1444	ASN	2.0
2	K	1627	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	586	GLN	2.0
2	H	262	MET	2.0
2	L	2048	PHE	2.0
2	G	753	SER	2.0
2	L	185	GLU	2.0
1	C	1380	ALA	2.0
2	G	857	VAL	2.0
2	G	1620	VAL	2.0
2	G	433	LEU	2.0
2	H	308	ALA	2.0
2	K	1435	TYR	2.0
2	I	1163	LEU	2.0
2	J	741	LEU	2.0
2	J	1373	LEU	2.0
2	L	1734	ILE	2.0
2	J	38	PRO	2.0
2	J	657	GLY	2.0
2	G	1016	PHE	2.0
2	H	641	MET	2.0
1	C	45	VAL	2.0
2	G	1321	VAL	2.0
2	I	291	VAL	2.0
2	J	660	VAL	2.0
2	K	1061	VAL	2.0
1	B	1418	ILE	2.0
1	C	1506	ALA	2.0
2	G	102	LEU	2.0
2	I	147	ALA	2.0
2	I	1624	ALA	2.0
2	J	314	LEU	2.0
2	K	373	PRO	2.0
1	A	1382	THR	2.0
2	L	505	THR	2.0
2	I	1223	SER	2.0
2	K	715	SER	2.0
2	L	182	TYR	2.0
2	L	1663	LYS	2.0
2	J	1034	LEU	2.0
2	K	183	PHE	2.0
1	D	606	PRO	2.0
2	G	1122	LYS	2.0
2	I	430	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
2	K	107	ASN	2.0
1	A	1291	TYR	2.0
1	B	58	ARG	2.0
1	B	1607	TYR	2.0
1	D	774	LEU	2.0
1	D	801	LEU	2.0
1	E	1574	LEU	2.0
2	H	997	LEU	2.0
2	I	1692	TYR	2.0
2	I	1989	LEU	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	NAP	B	1901	48/48	0.92	0.32	0.43	23,78,115,145	0
3	NAP	A	1901	48/48	0.90	0.32	0.34	19,76,121,169	0
3	NAP	F	1901	48/48	0.87	0.31	0.30	19,78,125,159	0
3	NAP	C	1901	48/48	0.87	0.34	0.17	23,81,130,171	0
3	NAP	D	1901	48/48	0.87	0.34	0.15	21,83,127,174	0
3	NAP	L	2102	48/48	0.93	0.31	-0.06	37,84,116,120	0
3	NAP	K	2102	48/48	0.90	0.29	-0.33	43,94,127,131	0
3	NAP	E	1901	48/48	0.93	0.26	-0.39	24,77,123,157	0
4	FMN	J	2101	31/31	0.94	0.32	-0.41	23,61,101,113	0
3	NAP	H	2102	48/48	0.92	0.25	-0.43	37,85,113,122	0
3	NAP	I	2102	48/48	0.95	0.26	-0.43	29,80,104,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
4	FMN	L	2101	31/31	0.96	0.29	-0.54	19,59,102,114	0
4	FMN	I	2101	31/31	0.97	0.30	-0.55	22,56,87,103	0
4	FMN	G	2101	31/31	0.95	0.31	-0.57	26,63,101,111	0
3	NAP	G	2102	48/48	0.92	0.24	-0.61	42,87,119,128	0
4	FMN	H	2101	31/31	0.96	0.32	-0.63	25,49,105,113	0
4	FMN	K	2101	31/31	0.92	0.36	-0.67	27,66,110,123	0
3	NAP	J	2102	48/48	0.89	0.21	-0.78	35,88,118,120	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.