



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 09:00 am GMT

PDB ID : 4V58
Title : Crystal structure of fatty acid synthase from thermomyces lanuginosus at 3.1 angstrom resolution.
Authors : JENNI, S.; LEIBUNDGUT, M.; BOEHRINGER, D.; FRICK, C.; MIKO-LASEK, B.; BAN, N.
Deposited on : 2007-03-09
Resolution : 3.10 Å(reported)

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

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
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)	:	recalc28972

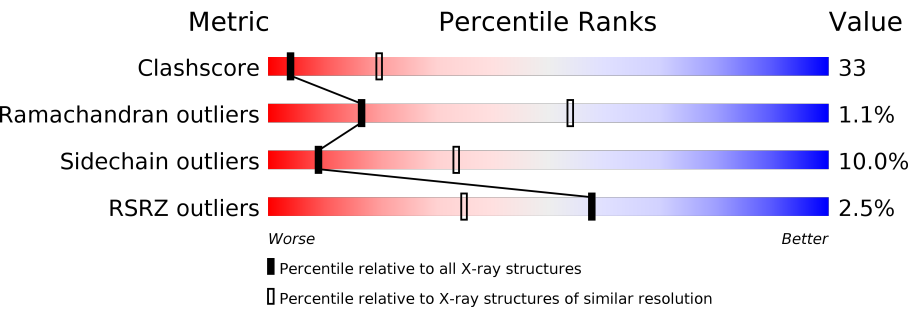
1 Overall quality at a glance i

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.



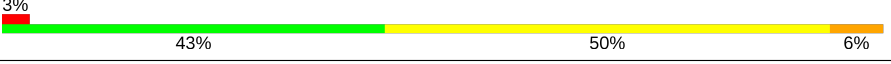
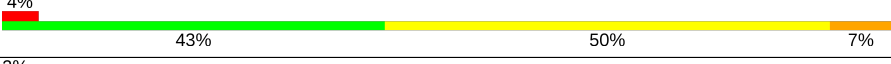
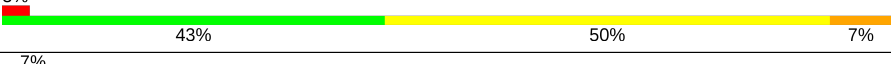
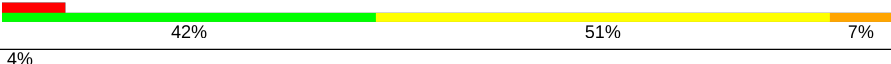
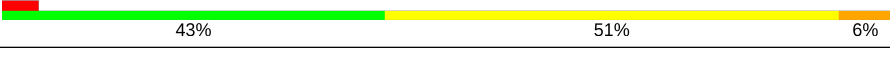
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	112137	1099 (3.12-3.08)
Ramachandran outliers	110173	1057 (3.12-3.08)
Sidechain outliers	110143	1057 (3.12-3.08)
RSRZ outliers	101464	1006 (3.12-3.08)

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

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

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

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

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

2 Entry composition

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

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

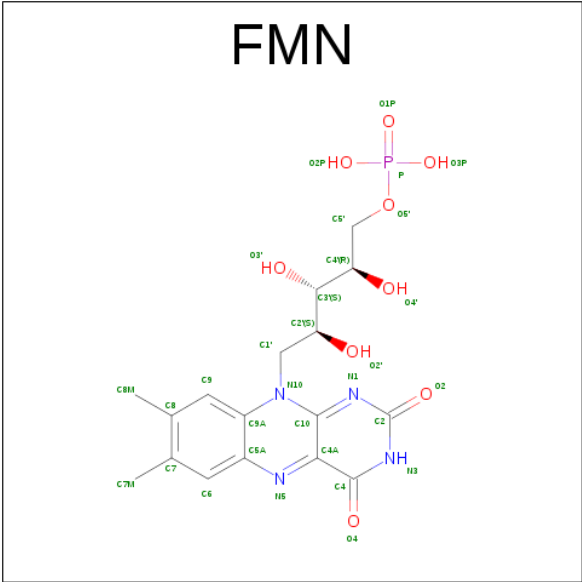
- Molecule 1 is a protein called FATTY ACID SYNTHASE ALPHA SUBUNITS.

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

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

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

- Molecule 3 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C₁₇H₂₁N₄O₉P).



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





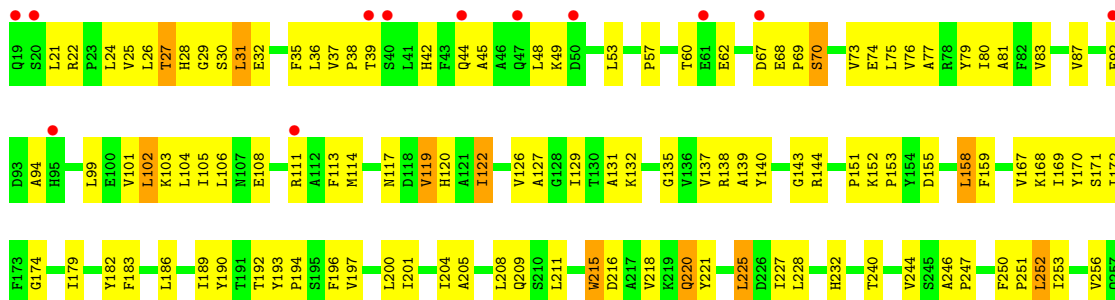


- Molecule 1: FATTY ACID SYNTHASE ALPHA SUBUNITS

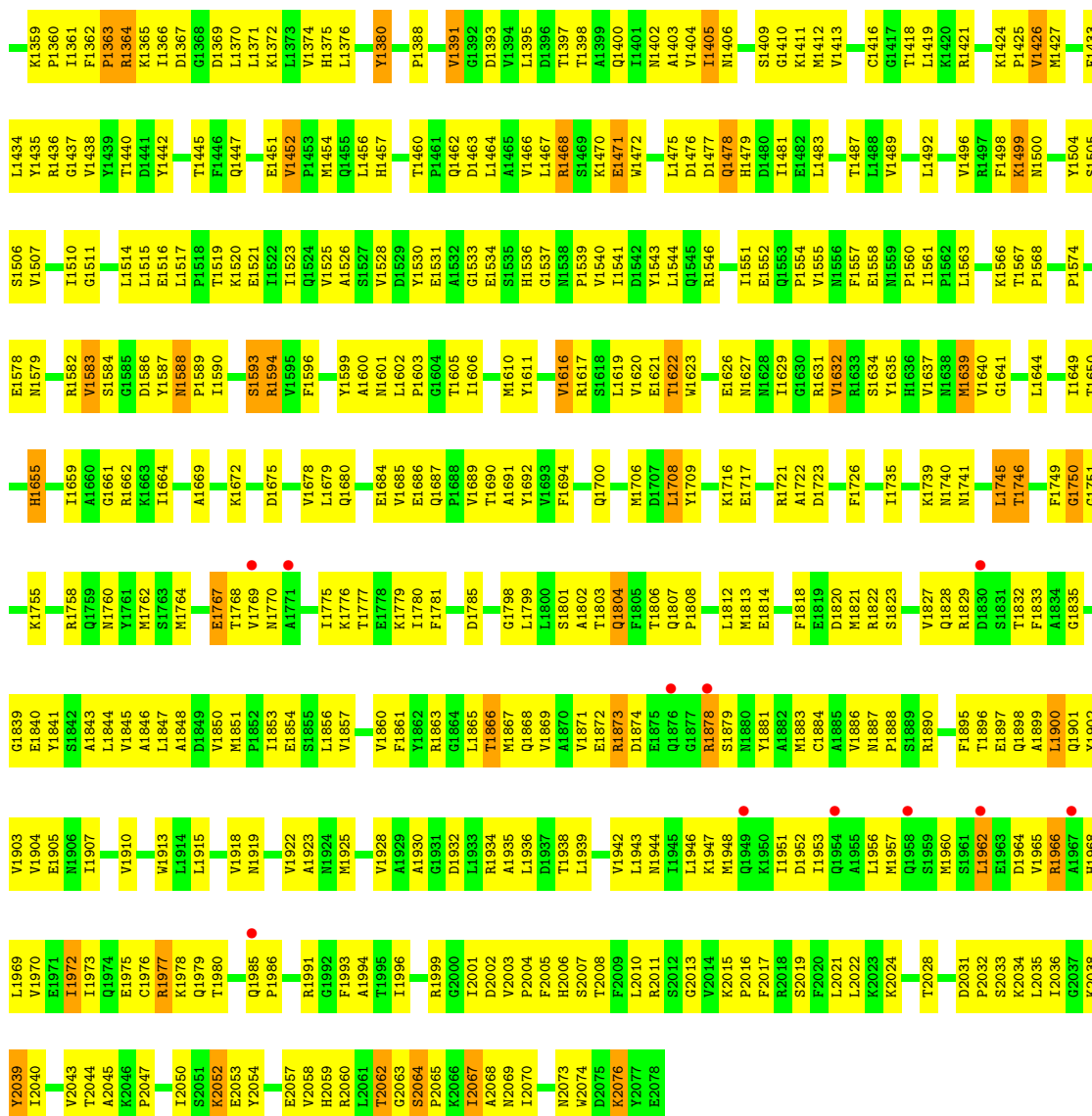




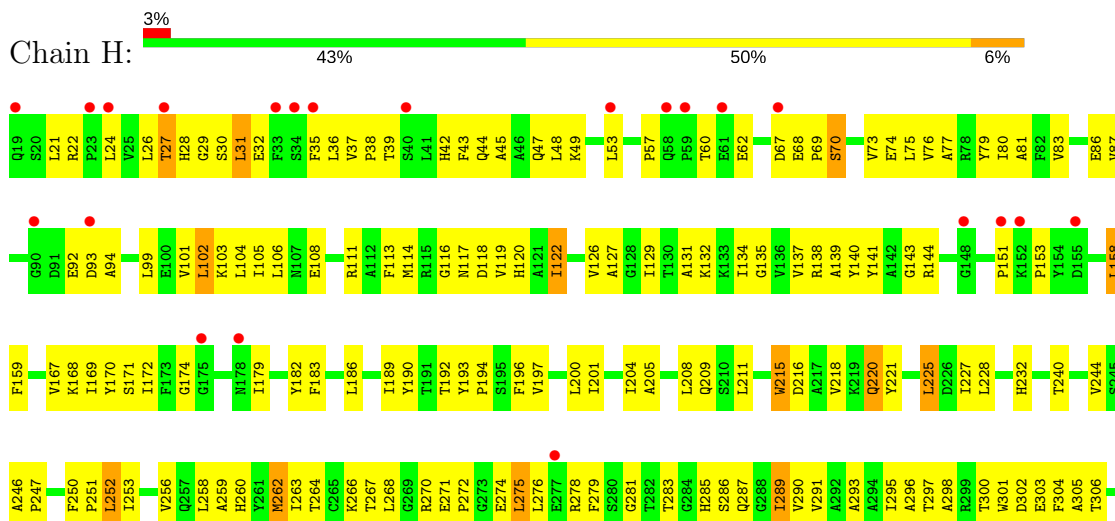




R1281	N1208	R1137	L1067	A999	D928	R849	F782	L709	Y635	Y554	G475	R406	R321	L258
I1284	P1209	D138	Q1068	Y1000	M929	P859	G783	R712	Y636	K555	Q476	A410	Q324	A259
I1285	D1210	A139	G1069	P1001	Y930	T851	G784	H713	M637	P556	D477	P411	Q325	H260
K1286	D1211	N140	P1070	E1002	Y931	T852	S785	H714	A638	E557	L478	T412	Y261	Y261
E1287	P1212	K141	A1071	A1003	A932	T853	G786	S715	M641	L558	R479	T413	M262	M262
F1288	T1215	I142	A1073	S1004	E933	T854	D787	S715	M641	F559	E480	L414	P327	L263
Y1289	V1216	S143	K1074	T1005	V934	T856	T788	S715	M641	D560	L481	L415	T264	T264
I1290	I1217	L146	Y1075	Q1006	V935	H857	T789	P718	T645	R561	G482	Q416	C265	C265
R1291	S1218	S147	Y1076	L1007	H936	L858	P790	G719	S646	D562	D485	D562	A332	K266
V1292	S1219	L154	K1077	M1008	R937	S859	G791	G719	K647	D563	L486	P420	P333	L268
V1293	R1220	M153	D1080	M1009	M938	R861	L792	A723	I648	V573	I419	P421	S334	L269
F1294	S1223	P1155	D1081	A1010	V939	G862	G793	G725	E650		P488	T422	T335	G269
V1299	Q1224	D1157	I1083	Q1012	L941	E863	S795	G726	A851	P578	E489	T422	S339	E271
P1300	S1225	V1157	Q1013	V1013	M942	P884	G796	G726	I653	R579	L490	Q423	V340	G273
F1301	I1226	D1085	K1084	Q1014	Y943	T865	S797	G727	P653	V581	L580	Q423	E341	G272
K1302	K1227	F1160	H1085	H1015	V944	H866	T798	G727	P653		R492	K425	N342	E274
T1303	I1228	L1087	L1087	F1016	K948	K867	T798	G731	R656	K582	M493	A426	L275	L275
P1304	L1229	D1088	L1017	L1017	R949	L868	Y802	G731	G657	T583	D497	R427	T346	L276
L1305	K1230	G1089	L1018	L1018	R949	A889	P803	A733	I658	S584	P498	F432	P347	E277
V1308	I1234	N1167	L1019	L1019	W950	T870	P804	N734	T659	S594	P498	F432	M350	R278
F1309	K1235	S1168	C1020	C1020	I951	R871	M805		V660	V499	L433	P434	L351	F279
R1313	L1236	N1169	Q1021	Q1021	I951		P806	F737	N661	Q587	N500	P434	S352	S280
E1314	V1237	S1170	H1090	H1091	L955	F875	F807	P738	L662	V590	N501	I435	S352	G281
I1315	G1238	H1173	I1090	I1091	K956	H876	D808	I739	I663	V590	E502	T436	I353	T282
V1316	D1239	R1172	Q1021	Q1021	K957	L879	G809	I740	Y664	D591	T503	A437	T283	T283
N1317	N1240	M1175	F1097	F1097	L958	D880	M811	L741	P665		A504	P438	L356	G284
A1318	T1245	T1178	L1098	L1098	G960	D881	M811	G742	N666	M594	T505	F439	T357	H285
F1324	L1246	E1179	L1100	P1032	R962	K892	S814	G746	M670	V600	G671	Y443	S359	S286
V1325	E1247	F1180	Y1103	A1033	R963	F884	R815	R747	G672	P601	P602	L444	Q287	Q287
N1330	G1248	F1181	D1104	L1034	R965	E894	T818	G750	P603	P602	T511	A447	E374	I289
E1333	R1250	V1182	G1105	D1035	V966	L895	K820	H751	P675	M604	H512	H448	D375	V290
A1334	T1251	Q1183	E1036	E1036	E967	K896	E821	H752	L676	V605	V514	A449	A292	V291
F1335	V1256	R1186	E1039	E1039	R969	K897	A822	E755	R679	A606	D515	H450	A293	A293
R1338	V1257	F1187	Y1040	Y1040	P970	T903	Q827	Q759	V685	M608	G517	L452	H377	L295
L1339	P1258	Q1188	W1041	F1042	T971	K904	A828	P760	P686	P610	G520	V455	S381	A296
G1339	L1259	T1189	K1043	K1043	S972	K905	K829	I761	I687	T611	V521	D456	L382	A298
V1340	T1260	N1190	P1111	K1044	P977	L906	K829	L762	G688	T612	S522	D457	V383	R299
D1341	F1261	P1191	I1113	W1048	S976	D909	I832	Y765	G689	V613	V526	M458	N388	T300
F1342	L1192	L1192	E1114	Q1049	L979	F910	V833	S766	L690	P614	L527	K459	F389	D302
A1344	H1266	L1195	D1052	S1050	Q991	K912	A835	R767	T691	D616	T528	I460	V390	E303
M1346	F1196	A1197	I1053	E1051	Q991	V913	P836	K770	A694	F617	N529	A462	V391	F304
D1347	P1267	F1196	V1056	D1052	D985	F914	G837	K770	S698	V618	T540	S463	P394	A305
A1348	E1268	P1198	V1057	Y1057	D987	G916	D839	C771	E700		L541	S464	P394	T306
Y1271	G1270	T1199	Y1057	Y1057	E988	R917	D840	S772	F699	V466	L541	L465	P395	K309
I1274	Y1271	G1201	E1126	E1126	P989	N918	Q842	I774	V701	V466	G543	I467	I396	R310
V1352	P1128	P1128	G1062	G1062	P991	G921	W843	I776	A702	A544	G543	P468	Y399	L314
R1275	Y1203	Y1203	G1062	G1062	P991	G921	W843	I776	A702	A544	G543	P468	Y399	L314
E1276	V1204	V1204	A1063	A1063	R995	Y924	N845	A778	Y705	H627	T550	Y470	G400	L315
V1353	E1205	E1205	A1063	A1063	R996	D925	N845	A778	Y705	H627	T550	Y470	G400	L315
K1355	M1277	M1277	C1065	C1065	L997	D925	N845	A778	Y705	H627	T550	Y470	G400	L315
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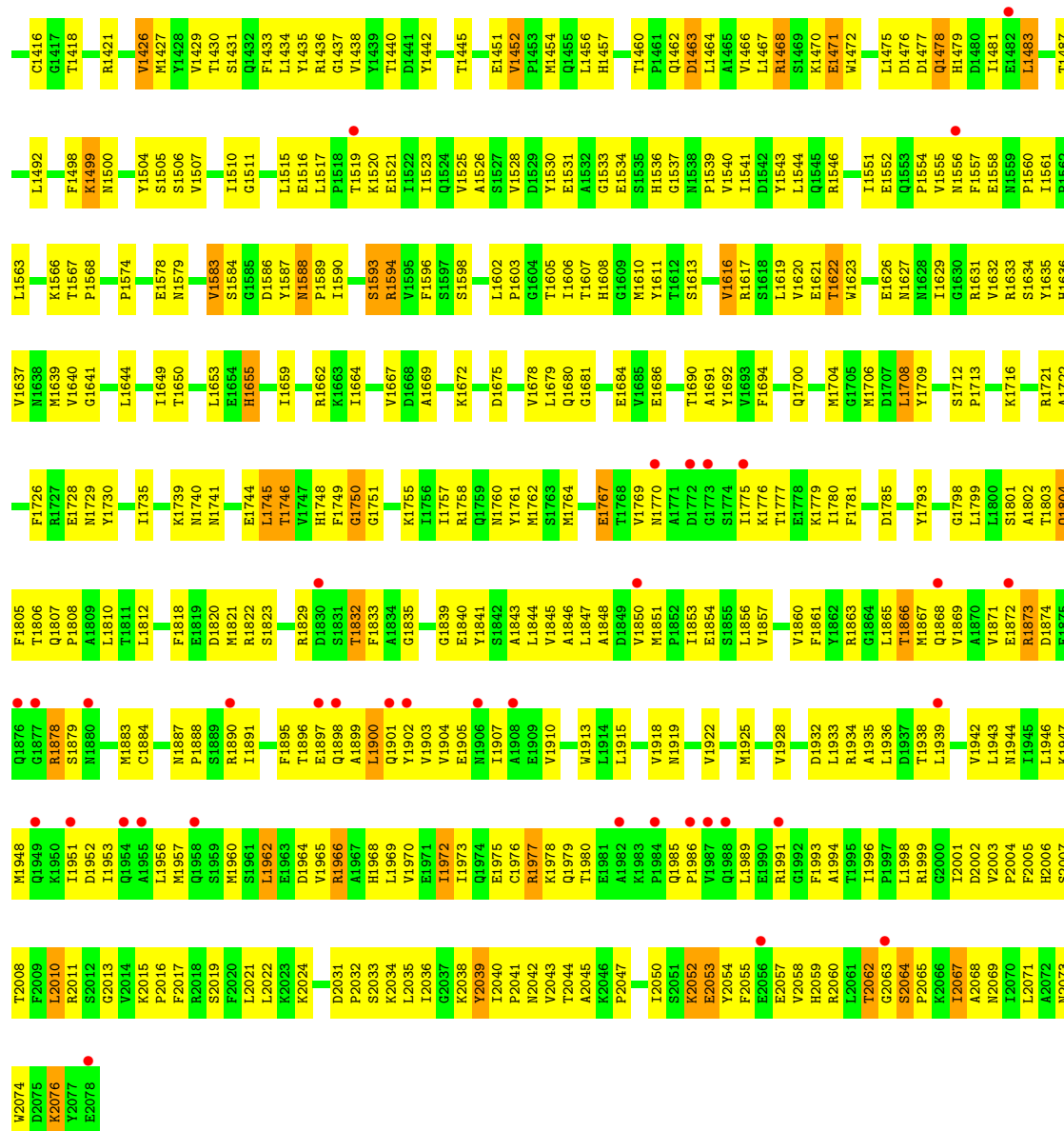
- Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



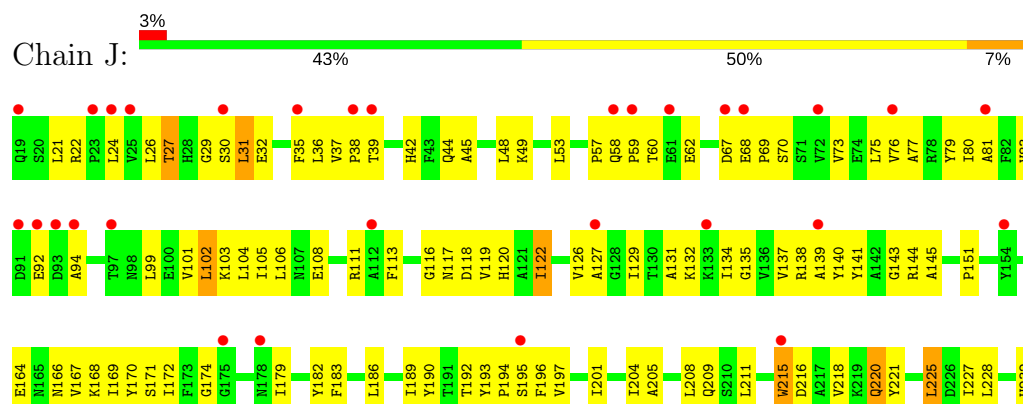
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F1342	F1343	Q1188	W1041	E967	K997	K829	I768	A620	T621	S463	S463	P394	A311
F1344	F1345	T1189	F1042	R968	I903	I832	K770	K622	N622	L465	L465	P395	E313
A1344	F1346	N1190	P1111	E969	K904	R833	C771	E701	N623	L541	L466	I396	E314
P1345	M1346	P1191	K1044	F970	K905	R633	S772	A702	A594	G543	I467	L396	L314
M1346	F1347	L1192	L1047	T971	L906	A835	N773	N703	G625	A544	P468	Y399	L315
F1347	F1348	L1193	W1048	S972	D909	P836	I774	E704	V626	E704	V469	G400	F316
A1349	F1349	R1119	Q1049	P977	F910	D839	W775	N705	E627	N549	Y470	Y399	L317
A1350	A1351	I1120	S978	S978	Q911	D840	W777	I706	H627	T550	D471	G400	Q319
V1351	V1352	E1050	E1051	L973	K912	D841	A778	I707	H627	T550	D471	N402	L318
V1352	V1353	L980	D1052	L980	V913	Q842	G779	W708	E629	E551	T472	N402	Q319
V1353	V1354	V914	I1053	V914	V914	W843	S780	L709	V635	V552	T474	N404	L320
V1354	V1355	D985	Y1057	D985	F915	E344	G781	R712	N637	G553	T474	N405	R321
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K1359	P1360	P991	G921	V924	V924	T851	G788	F718	P645	P559	L478	P411	Y326
P1360	P1361	V924	V924	V924	V924	T851	G788	F718	P645	P559	L478	P411	Y326
P1361	P1362	L926	L926	L926	L926	T851	G788	F718	P645	P559	L478	P411	Y326
P1362	P1363	E927	E927	E927	E927	T851	G788	F718	P645	P559	L478	P411	Y326
P1363	P1364	A999	A999	A999	A999	T851	G788	F718	P645	P559	L478	P411	Y326
P1364	P1365	G1069	G1069	G1069	G1069	T851	G788	F718	P645	P559	L478	P411	Y326
P1365	P1366	P1070	P1070	P1070	P1070	T851	G788	F718	P645	P559	L478	P411	Y326
P1366	P1367	P1071	P1071	P1071	P1071	T851	G788	F718	P645	P559	L478	P411	Y326
P1367	P1368	E1002	E1002	E1002	E1002	T851	G788	F718	P645	P559	L478	P411	Y326
P1368	P1369	Q1006	Q1006	Q1006	Q1006	T851	G788	F718	P645	P559	L478	P411	Y326
P1369	P1370	L1007	L1007	L1007	L1007	T851	G788	F718	P645	P559	L478	P411	Y326
P1370	P1371	N1008	N1008	N1008	N1008	T851	G788	F718	P645	P559	L478	P411	Y326
P1371	P1372	A1010	A1010	A1010	A1010	T851	G788	F718	P645	P559	L478	P411	Y326
P1372	P1373	R1009	R1009	R1009	R1009	T851	G788	F718	P645	P559	L478	P411	Y326
P1373	P1374	R1011	R1011	R1011	R1011	T851	G788	F718	P645	P559	L478	P411	Y326
P1374	P1375	Q1012	Q1012	Q1012	Q1012	T851	G788	F718	P645	P559	L478	P411	Y326
P1375	P1376	V1013	V1013	V1013	V1013	T851	G788	F718	P645	P559	L478	P411	Y326
P1376	P1377	F1014	F1014	F1014	F1014	T851	G788	F718	P645	P559	L478	P411	Y326
P1377	P1378	H1015	H1015	H1015	H1015	T851	G788	F718	P645	P559	L478	P411	Y326
P1378	P1379	F1016	F1016	F1016	F1016	T851	G788	F718	P645	P559	L478	P411	Y326
P1379	P1380	L1017	L1017	L1017	L1017	T851	G788	F718	P645	P559	L478	P411	Y326
P1380	P1381	G1018	G1018	G1018	G1018	T851	G788	F718	P645	P559	L478	P411	Y326
P1381	P1382	I1019	I1019	I1019	I1019	T851	G788	F718	P645	P559	L478	P411	Y326
P1382	P1383	C1020	C1020	C1020	C1020	T851	G788	F718	P645	P559	L478	P411	Y326
P1383	P1384	Q1021	Q1021	Q1021	Q1021	T851	G788	F718	P645	P559	L478	P411	Y326
P1384	P1385	R1022	R1022	R1022	R1022	T851	G788	F718	P645	P559	L478	P411	Y326
P1385	P1386	K1026	K1026	K1026	K1026	T851	G788	F718	P645	P559	L478	P411	Y326
P1386	P1387	P1027	P1027	P1027	P1027	T851	G788	F718	P645	P559	L478	P411	Y326
P1387	P1388	L1028	L1028	L1028	L1028	T851	G788	F718	P645	P559	L478	P411	Y326
P1388	P1389	F1029	F1029	F1029	F1029	T851	G788	F718	P645	P559	L478	P411	Y326
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P1439	P1440	Q1080	Q1080	Q1080	Q1080	T851	G788	F718	P645	P559	L478	P411	Y326
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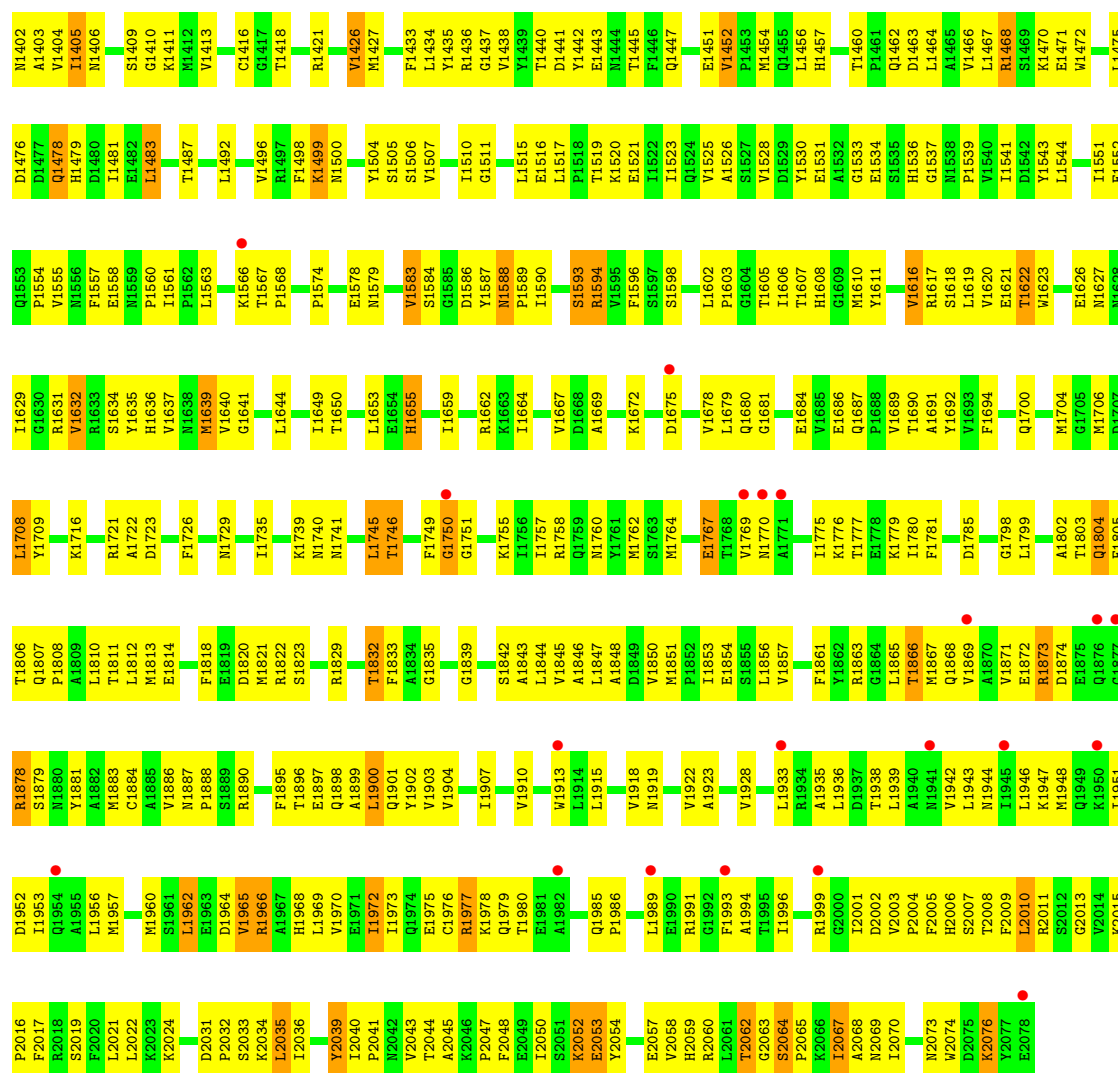
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	G1249	M1175	V1028	K1096	V1028	D961	D881	R815	G750	P602	F516	L452	G379	T297
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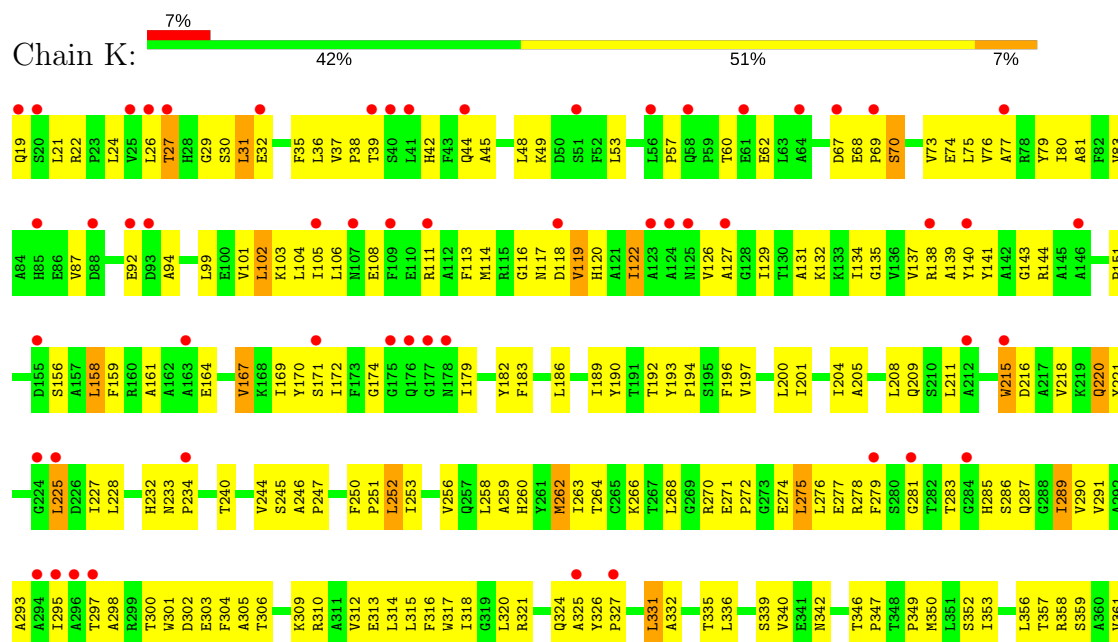
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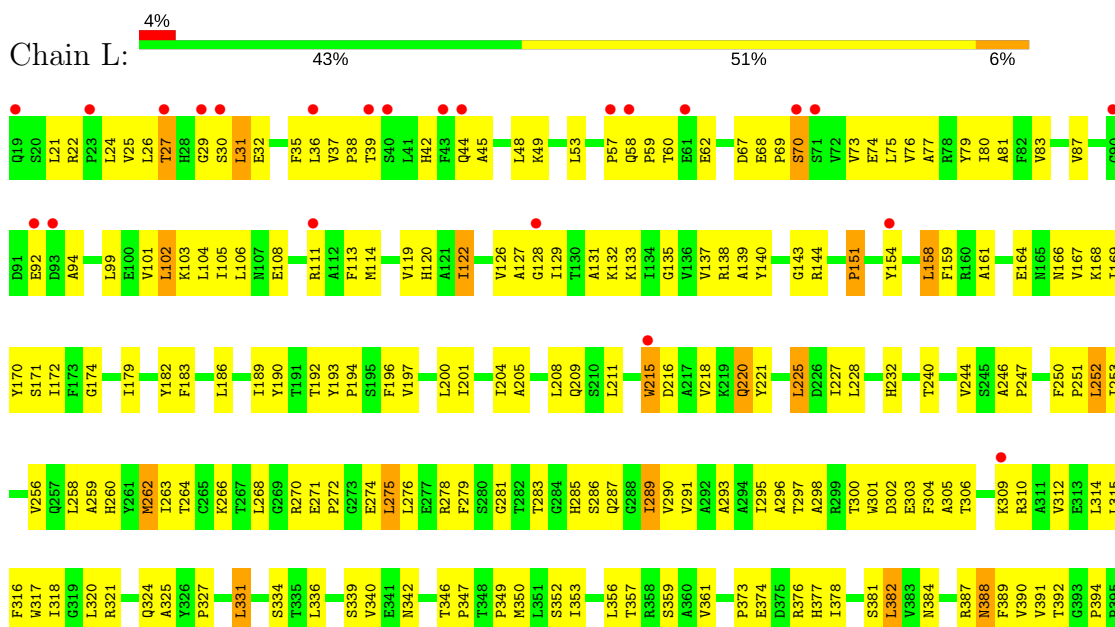
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			R1172	F1031	K957	L883	M817			T609	G517	H450		A296
A1318			H1173	P1032	L1032	F884	T818	E755		P610		I451	E374	T297
Q1319	T1245	T1245	A1174	A1033	T959		A819			T611	G520	L452	D375	A298
	L1246	L1246	M1175	L1034	G960	R888	K820	Q789	V685	T612	V521	G453	R376	R299
D1323	F1247	F1247		D1035	D961	S889	E821	P760	P686	V613	S522	D454	R377	T300
F1324	E1248	E1248	T1178	E1036	F962	K890	A822	I761	I687	P614	V455	V455	I378	W301
V1325	G1249	G1249	E1179	A1036	I963	R891	H823	L762	L687	W615	V526	D456	D302	D302
D1396	T1250	T1250	V1180	Y1039	R964	E894	Q827	L763	G689	D616	L527	D457	S381	E303
V1328	R1251	R1251	F1181	E1040	R965	L395	A828	M764	L690	F617	T528	M458	L382	F304
G1329	A1252	A1252		W1041	V966	L395	A828	Y765	T691	V618	N529	K459	V383	A305
T1397			R1186	F1042	E967	K897	K329	S766	I692	A619	R530	I460	N384	T306
L1398			F1187	K1043	E968	R898	I632	R767	G693	A620		P461		
A1399	V1256	V1256	Q1188	K1044	R969			I768	A694			A462	N388	K309



● Molecule 2: FATTY ACID SYNTHASE BETA SUBUNITS



T1358	Y1289	A1213	S1143	A1073	Q1006	R936	I865	Y802	I740	V664	F589	V506	Y443	N369
K1359	Y1290	K1214	L1146	K1074	L1007	R937	R866	P903	L741	V665	V590	F507	Y444	
P1360	R1291	T1215		Y1075	N1008	M938	R867	P804	W743	N666	D591	P508		P373
I1361	V1292	V1216		S1076	N1009	V939	L868	M805			M594	D509		E374
P1362	W1293	I1217		A1077	A1010	E940	A869	P906	G746	W670	S595	T511	A447	D375
F1363	W1294	N1153		V1078	Q1011	L941	T870	F807	R747	Q672	H512	T511	H448	R376
I1364		L1154		I1079	P1012	K942	R871	D808	G748	Q673		H512	A449	
		P1155		D1080	V1013	K943	G872	G809	G749	P601	D515		H450	H377
K1297		D1156			W1014	Y944		M811	G750	P602	F516		L451	L378
E1298		K948		I1083	H1015		R875		H751	V603	G517		L452	
V1299		R949		T1084	K1016		W876		G752	M604			Y455	S381
F1301		D1158		I1088	L1017		R877		E755	V605	G520		D456	L382
F1302		S1159		G1089	L1018		L879		D756	V521	G520		D457	V383
T1303		F1160			L1019		R891		F757	S522			M458	
P1304		T1164			C1020		D880		F758				R387	
F1305		I1091		H1091	P1021		P885		H758	P686	N388		N388	
T1306		N1092		N1092	R1022		D881		Q759	T609	V526		I460	F389
A1307		K1093		L1098			R892		Q759	P610	I527		P461	V390
W1308		S1170		H1094	Q1025		R893		P760	T611	T528		A462	V391
F1309		W1171		I1095	F1030		F884		I761	G683	N529		S463	T392
R1313		H1172		I1095	P1027				L762	L690			S464	G393
E1314		H1173		F1097	K1026		R888		L763	V613	D533		S465	G393
I1315		A1174		L1098	V1028		R891		M764	W615			V466	P394
V1316		M1175		L1099	P1029				Y765	D616	I540		V467	P395
A1317		F1176		L1099	F1031		E884		S766	F617	I540		P468	I396
A1318		T1177		R1100	V1031		R894		R767	V618	I541		V469	
Q1319		T1178			P1032		L895		I768		A542		Y470	Y399
		T1178		Y1103	A1033		R896		T769	T621	G543		Y471	G400
		E1179		D1104	L1034		R897		W770	M622	G544		D471	A544
		V1180		G1105	E1035				C771	N623	I545		T472	N402
		F1181		L1106	D1036		I903		S773	K624	D546		K473	L403
		V1182		E1107	E1037		K904		N773	G625	T548		T474	R404
		Q1183		E1108	E1039		K905		W703	G625	T548		T475	L405
		G1184		E1109	F1040		L906		E704	N549	T548		Q476	R406
		H1185		N1109	W1041				W775	T550	T550		D477	
		R1186		V1110	F1042		D909		L776	E551	L478		L478	K409
		F1187		F1111	K1043		F910		W777	E629	V552		R479	A410
		Q1188		I1112	E1044		D911		W778	G553	G553		E480	P411
		T1189		I1113	K1044		K912		G779	Y635	Y554		L481	
		N1190		E1114	L1047		K913		S780	Y636	K555		G482	L414
		P1191		Y1115	W1048		W914		G781	N637	P556		D415	D415
		L1192		F1116	Q1049		F915		F782	A638	E557		E484	Q416
		K1193			S1050		N945		G783		L558		D485	
		R1194		L1121	E1051		R917		G784	M641	F559		I419	I419
		L1195		K1122	D1052		W918		S785		D560		P420	P420
		F1196		A1123	D1053		K918		G791	I645	R561		F421	F421
		A1197			I1053		G921		E786	S646	D562		T422	T422
		P1198		E1126	Y1057		E922		D787	K647	D563		L490	Q423
		T1199		E1127			P989		W788	Q725	D563		V491	R424
		P1200		P1128	Y990		P923		P790	Q726			R492	K425
		R1200		D1129	P991		T851		Y791	V727	V573		K493	K425
		G1201		D1130	V1061		V854		L792				P578	A426
		M1202		I1130	G1062		T855		T793	I652			D497	R427
		Y1203		D1131	R1063		T856		G794	P653			F432	F432
		Y1204		G1132	T1064		V857		S795	A731			P498	F432
		V1205		L1133	C1065		N928		G796	L433			V499	L433
		I1206		E1205	T1066		N929		W796	N500			N500	N500
		T1207		L1137	L1067		T930		S797	A733			K582	P434
		N1208		D1138	D1068		Y931		T798	N734			T583	I435
		P1209		A1139	G1069		A932		F799	G657			E502	T436
		D1210		N1140	P1070		E933		F800	N661			T503	F439
		I1211		K1141	E1002		V934		L662	P738			A504	
		P1212		I1142	T1005		V935		G801	I663			T505	



S1409	R1338	V1256	F1181	E1107	E1039	R965	L895	K829	Y765	T691	F617	L541	V466	I396
G1410	G1339	V1257	R1186	E1108	Y1040	V966	K896	K829	S766	A694	V618	A542	I467	
K1411	L1259	P1258	F1187	N1109	Y1041	E967	R898	T832	R767	A694	A619	G543	P468	Y399
M1412	F1342	T1260	Q1188	P1111	E1042	E969	I903	R833	R769	S698	T621	T548	Y470	N401
V1413	F1261	R1261	K1043	V1112	K1043	E970	K904	D834	K770	I699	M622	N549	D471	L402
	R1262		K1044	I1113	T971	T971	K905	A835	C771	E700	N623	T550	T472	L403
C1416	P1345	Y1265	W1048	E1114	W1048	Q976	L906	P836	S772	V701	Y626	T551	T473	R404
G1417	M1346	H1266	Q1049	Y1115	Q1049	P977	L906	C837	N773	A702	H627	E551	T474	L405
T1418	F1347	P1267	S1050	F1116	S1050	S978		D839	T774	E703	Q475	V552	Q476	R406
	F1348	E1268	E1061	I1120	E1061	L979		D840	T776	Y705	E629	Y554	D477	K407
R1421	A1349	A1269	E1062	I1121	D1062	L980		D841	T777	Y706		K555	L478	
K1424	V1351	G1270	I1063	K1122	I1063			Q842	A778	Q707		P556	R479	
V1425	V1352	T1271	Y1057	A1123	Y1057	D985		W843	G779	T708	Y635	E557	E480	
M1427	K1353	I1274	V1061	E1124	V1061	L986		E844	S780	L709	Y636	N637	L481	
	K1354	R1275	G1062	D1125	G1062	D987		N845	F781	R561	A638	Q482	Q482	
L1434	A1355	E1276	G1063	E1126	G1063	P989		T846	G782	W844		Q483	Q483	
Y1435	K1356	V1277	R1064	E1127	R1064	Y990		Y847	G783	H713	M641	Q484	Q484	
G1437	K1357	M1278	E1065	P1128	E1065	P991		R849	G784	T714		D485	D485	
V1438	I1360	R1284	C1066	D1130	C1066	I1996		R850	F716	F716	A644	Q667	L486	
F1439	F1361	I1285	L1067	D1131	L1067	L997		T851	E786	K717	I645	V573	L487	
T1440	P1362	K1286	Q1068	G1132	Q1068	A998		V854	D787	P718	S646	K574	P488	
D1441	R1364	E1287	G1068	L1133	G1068	A999		I855	T788	G719	K647		E489	
Y1442	K1365	D1210	G1069	R1137	G1069	A999		T856	Y789		I648		L490	
	K1366	D1211	V1071	D1138	V1071	Y1000		R857	P790	A723	E649	P578	V491	
T1445	D1367	T1215	A1073	N1140	A1073	E1002		G921	Y791	T724	K650	R579	R492	
E1451	P1368	V1216	K1074	K1141	K1074	I1996		E922	F793	L792	A651	L580	M493	
Y1452	D1369	I1217	K1075	K1142	K1075	I1997		E923	T794	Q726	I652	V581	L487	
F1453	L1370	S1218	S1076	K1143	S1076	A998		N929	G795	W727	P653	K582	P420	
K1454	K1372	R1220	K1077	S1143	K1077	A999		T859	Y796		R656	Q587	F421	
Y1455	L1373	K1297	D1080	L1146	D1080	Y1000		E862	S797	T730	G657	Q587	T422	
L1456	V1374	E1298	K1081	N1153	K1081	I1009		P864	T798	A731	N661	V590	L490	
H1457	H1375	V1299	K1082	L1154	K1082	I1009		I865	K799	N734	L662	D591	P438	
		P1300	K1083	P1155	K1083	Q1011		R866	Y802		I663	A504	P439	
T1460	R1381	F1301	K1084	D1156	K1084	D1012		K867	P803	F737	Y664	T505	H440	
Y1461	M1382	L1305	D1085	D1157	D1085	V1014		L868	P804	P738	V665	M594	L444	
D1463	P1388	V1308	L1086	D1158	L1086	Q1014		A869	P804	I739	N666	S595	F507	
K1465		F1309	L1087	S1159	L1087	H1015		T870	M805	L741	P667	R596		
V1466	V1391	D1310	G1088	F1160	G1088	L1017		R871	P806	G742	M670	L597	A610	
L1467	G1392	I1234	I1090	N1167	I1090	L1018		G872	D807	W743	G671	V600	A447	
R1468	D1393	L1236	H1091	L1164	H1091	L1019		F875	D808		W672	V600	H448	
S1469	V1394	V1237	N1092	P1167	N1092	C1020		W876	C810	G746	Q673	P601	H512	
K1470	L1395	G1238	D1093	S1168	D1093	Q1022		L879	M811	R747	I674	V603	T613	
E1471	D1396	D1239	H1094	Y1169	H1094	R1026		I951	S814	G750	P675	M604	D515	
Y1472	T1397	N1240	K1095	S1170	K1095	K1026		D881	R815	H751	L676	V605	G517	
F1473	T1398	L1245	F1097	W1171	F1097	V1027		K882	R816	H752	R679	A606	D454	
K1474	Q1400	L1246	L1098	H1172	L1098	P1029		F884	T818	E755	D683	G607	D455	
L1475	F1401	F1247	L1099	H1173	L1099	F1030		R888	A819		G684	T609	D456	
D1477	I1401	F1247	R1100	M1175	R1100	L958		S889	G821	Q759	T611	P610	K459	
T1478	N1402	E1248	M1175	Y1103	M1175	T960		R888	E821	T612	I460	T612	P461	
Q1478	A1403	G1249	T1178	G1105	T1178	P1032		K890	A822	I761	P685	V613	L527	
H1479	V1404	R1250	T1179	G1105	T1179	A1033		R891	E888	L762	I687	P614	T528	
D1480	I1405	T1251	G1106	G1106	G1106	L1034		E894	E823	L763	G889	W615	N529	
I1481	N1406	F1335				E1036			Q827		L690	D616	I540	

K2015	Q1954	M1813	K1716	R1631	M1556	E1482
P2016	A1885	E1814		V1632	F1557	L1483
F2017	V1886		R1721	S1633	E1558	
R2018	M1887	F1818	A1722	S1634	M1559	T1487
S2019	P1888	E1819		V1635	P1560	L1488
P2020	S1889	D1820	F1726	H1636	I1561	V1489
L2021	R1890	M1821		V1637	P1562	
L2022	T1894	R1822	K1739	M1638	L1563	L1492
K2023	F1895	S1823	M1740	M1639	K1566	F1498
K2024	T1896		P1742	V1640	T1567	K1499
	E1897	Q1828		G1641	P1568	M1500
T2028	R1898	D1830	L1745	L1644	R1572	Y1504
T2029	A1899	S1831	T1746	P1645	A1573	S1505
I2030	L1900	T1832		M1646	P1574	S1506
D2031	O1901	F1833	F1749	D1647	A1575	V1507
P2032	V1902	G1834	G1750	A1648		
S2033	I1972	G1835	G1751	I1649		
K2034	V1903			T1650		I1510
L2035	V1904	G1839	K1755	L1653		G1511
L2036	E1905	E1840		E1654	V1583	
G2037	M1906	Y1841	R1758	H1655	S1584	L1514
K2038	I1907	S1842	Q1759		G1585	L1515
Y2039		A1843	M1760		D1586	E1516
I2040	V1910	L1844	Y1761		Y1587	L1517
P2041	W1913	V1845	M1762		M1588	F1518
N2042	L1914	A1846	S1763	R1662	P1589	L1519
V2043	L1915	L1847	M1764	K1663	I1590	K1520
T2044	A1918	A1848	T1765	I1664	H1591	E1521
A2045	V1918	D1849	F1766		V1592	I1522
K2046	M1919	V1850	E1767	V1667	S1593	I1523
P2047	Y1920	M1851	T1768	D1668	R1594	Q1524
	N1921	P1852	V1769	A1669	V1595	V1525
I2050	V1922	I1853	M1770		F1596	A1526
S2051	A1923	E1854		K1672		S1527
E2053	Q1926	S1855	I1775		L1502	V1528
Y2054	Y1927	L1856	K1776		P1603	D1529
	V1928	V1857	T1777		G1604	Y1530
E2057		F1861	E1778	V1678	T1605	E1531
V2058	D1932	Y1862	K1779	L1679	I1606	A1532
H2059	L1933	R1863	I1780	Q1680	T1607	G1533
R2060	R1934	G1864	F1781	G1681	H1608	E1534
L2061	A1935	L1865			G1609	S1535
T2062	L1936	T1866	D1785	E1684	M1610	H1536
G2063	D1937	M1867	S1788	V1685	Y1611	G1537
S2064	L1939	Q1868		E1686		M1538
K2065	L1939	V1869	Y1793	Q1687	V1616	P1539
K2066		A1870		P1688	R1617	V1540
I2067	V1942	V1871	L1799	V1689	S1618	I1541
A2068	L1943	E1872		T1690	L1619	D1542
N2069	N1944	R1873	A1802	A1691	V1620	Y1543
	L1945	D1874	T1803	V1692	E1621	L1544
N2073	L1946		Q1804	F1694	T1622	Q1545
W2074	K1947	R1878	F1805		W1623	R1546
D2075	M1948	S1879	T1806	M1706		I1551
K2076		N1880	Q1807	D1707	E1626	I1552
Y2077	I1951	Y1881	P1808	Y1709	M1628	Q1553
E2078	D1952	A1882	L1812		I1629	P1554
	I1953	M1883			G1630	V1555

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	216.37Å 414.43Å 221.51Å 90.00° 111.65° 90.00°	Depositor
Resolution (Å)	12.00 – 3.10 88.45 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (12.00-3.10) 89.5 (88.45-3.10)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.59 (at 3.13Å)	Xtriage
Refinement program	PHENIX.REFINE	Depositor
R, R_{free}	0.290 , 0.320 0.252 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	38.3	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.12 , -83.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.21$, $\langle L^2 \rangle = 0.07$	Xtriage
Estimated twinning fraction	0.280 for l,-k,h	Xtriage
F_o, F_c correlation	0.76	EDS
Total number of atoms	166671	wwPDB-VP
Average B, all atoms (Å ²)	76.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

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

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

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

There are no bond length outliers.

All (5) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (2) planarity outliers are listed below:

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

5.2 Too-close contacts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1451/1878 (77%)	1291 (89%)	148 (10%)	12 (1%)	22	62
1	B	1458/1878 (78%)	1295 (89%)	151 (10%)	12 (1%)	22	62

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1456/1878 (78%)	1293 (89%)	151 (10%)	12 (1%)	22	62
1	D	1461/1878 (78%)	1290 (88%)	155 (11%)	16 (1%)	17	54
1	E	1450/1878 (77%)	1292 (89%)	146 (10%)	12 (1%)	22	62
1	F	1455/1878 (78%)	1300 (89%)	140 (10%)	15 (1%)	18	57
2	G	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	14	48
2	H	2058/2060 (100%)	1786 (87%)	244 (12%)	28 (1%)	13	47
2	I	2058/2060 (100%)	1799 (87%)	233 (11%)	26 (1%)	14	48
2	J	2058/2060 (100%)	1792 (87%)	240 (12%)	26 (1%)	14	48
2	K	2058/2060 (100%)	1772 (86%)	258 (12%)	28 (1%)	13	47
2	L	2058/2060 (100%)	1777 (86%)	253 (12%)	28 (1%)	13	47
All	All	21079/23628 (89%)	18479 (88%)	2359 (11%)	241 (1%)	17	54

All (241) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1220/1527 (80%)	1101 (90%)	119 (10%)	9	35
1	B	1227/1527 (80%)	1111 (90%)	116 (10%)	10	37
1	C	1225/1527 (80%)	1102 (90%)	123 (10%)	9	33
1	D	1229/1527 (80%)	1110 (90%)	119 (10%)	9	35
1	E	1219/1527 (80%)	1101 (90%)	118 (10%)	9	35
1	F	1224/1527 (80%)	1109 (91%)	115 (9%)	10	38
2	G	1752/1752 (100%)	1571 (90%)	181 (10%)	8	32
2	H	1752/1752 (100%)	1579 (90%)	173 (10%)	9	34
2	I	1752/1752 (100%)	1571 (90%)	181 (10%)	8	32
2	J	1752/1752 (100%)	1573 (90%)	179 (10%)	8	32
2	K	1752/1752 (100%)	1575 (90%)	177 (10%)	9	33
2	L	1752/1752 (100%)	1576 (90%)	176 (10%)	9	33
All	All	17856/19674 (91%)	16079 (90%)	1777 (10%)	9	33

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FMN	G	2101	-	31,33,33	6.25	21 (67%)	38,50,50	1.70	4 (10%)
3	FMN	H	2101	-	31,33,33	6.24	20 (64%)	38,50,50	1.82	8 (21%)
3	FMN	I	2101	-	31,33,33	6.25	19 (61%)	38,50,50	1.85	7 (18%)
3	FMN	J	2101	-	31,33,33	6.45	21 (67%)	38,50,50	1.93	8 (21%)
3	FMN	K	2101	-	31,33,33	6.47	22 (70%)	38,50,50	1.79	9 (23%)
3	FMN	L	2101	-	31,33,33	6.22	19 (61%)	38,50,50	1.78	8 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FMN	G	2101	-	-	0/16/18/18	0/3/3/3
3	FMN	H	2101	-	-	0/16/18/18	0/3/3/3
3	FMN	I	2101	-	-	0/16/18/18	0/3/3/3
3	FMN	J	2101	-	-	0/16/18/18	0/3/3/3
3	FMN	K	2101	-	-	0/16/18/18	0/3/3/3
3	FMN	L	2101	-	-	0/16/18/18	0/3/3/3

All (122) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C8M-C8	2.01	1.55	1.51
3	L	2101	FMN	C5'-C4'	2.04	1.54	1.51
3	G	2101	FMN	C7M-C7	2.08	1.55	1.51
3	G	2101	FMN	C8M-C8	2.11	1.55	1.51
3	J	2101	FMN	C7M-C7	2.13	1.55	1.51
3	J	2101	FMN	C8M-C8	2.13	1.55	1.51
3	I	2101	FMN	C8M-C8	2.15	1.55	1.51
3	H	2101	FMN	C7M-C7	2.22	1.55	1.51
3	G	2101	FMN	C5'-C4'	2.23	1.55	1.51
3	K	2101	FMN	C7M-C7	2.31	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	P-O5'	2.36	1.67	1.60
3	L	2101	FMN	P-O3P	2.40	1.64	1.54
3	I	2101	FMN	P-O3P	2.53	1.65	1.54
3	H	2101	FMN	P-O3P	2.56	1.65	1.54
3	G	2101	FMN	P-O3P	2.57	1.65	1.54
3	I	2101	FMN	P-O2P	2.58	1.65	1.54
3	J	2101	FMN	P-O2P	2.59	1.65	1.54
3	K	2101	FMN	C5'-C4'	2.62	1.55	1.51
3	L	2101	FMN	P-O2P	2.71	1.66	1.54
3	H	2101	FMN	P-O2P	2.78	1.66	1.54
3	K	2101	FMN	P-O2P	2.79	1.66	1.54
3	H	2101	FMN	C5'-C4'	2.79	1.55	1.51
3	K	2101	FMN	P-O3P	2.81	1.66	1.54
3	J	2101	FMN	P-O3P	2.87	1.66	1.54
3	G	2101	FMN	P-O2P	2.88	1.66	1.54
3	J	2101	FMN	C5'-C4'	3.00	1.56	1.51
3	H	2101	FMN	C4-C4A	5.69	1.52	1.41
3	G	2101	FMN	C9A-C5A	5.78	1.54	1.42
3	H	2101	FMN	C9A-C5A	5.85	1.54	1.42
3	L	2101	FMN	C9A-C5A	5.91	1.54	1.42
3	I	2101	FMN	C9A-C5A	5.92	1.54	1.42
3	I	2101	FMN	C4-C4A	5.94	1.52	1.41
3	K	2101	FMN	C9A-C5A	5.99	1.54	1.42
3	L	2101	FMN	C4-C4A	6.10	1.53	1.41
3	G	2101	FMN	C4-C4A	6.11	1.53	1.41
3	J	2101	FMN	C4-C4A	6.33	1.53	1.41
3	G	2101	FMN	C8-C7	6.36	1.57	1.41
3	J	2101	FMN	C9A-C5A	6.38	1.55	1.42
3	G	2101	FMN	O4-C4	6.45	1.40	1.24
3	L	2101	FMN	C8-C7	6.47	1.57	1.41
3	K	2101	FMN	C4-C4A	6.48	1.53	1.41
3	H	2101	FMN	C8-C7	6.49	1.57	1.41
3	H	2101	FMN	O4-C4	6.50	1.40	1.24
3	I	2101	FMN	O4-C4	6.50	1.40	1.24
3	K	2101	FMN	O4-C4	6.60	1.41	1.24
3	I	2101	FMN	C8-C7	6.61	1.57	1.41
3	L	2101	FMN	C9-C8	6.62	1.55	1.37
3	L	2101	FMN	O4-C4	6.70	1.41	1.24
3	H	2101	FMN	C2-N3	6.82	1.51	1.38
3	G	2101	FMN	C9-C8	6.83	1.56	1.37
3	H	2101	FMN	C9-C8	6.85	1.56	1.37
3	J	2101	FMN	O4-C4	6.93	1.42	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C8-C7	6.94	1.58	1.41
3	K	2101	FMN	C2-N3	6.94	1.51	1.38
3	L	2101	FMN	C2-N3	6.95	1.51	1.38
3	I	2101	FMN	C9-C8	6.96	1.56	1.37
3	G	2101	FMN	C2-N3	6.97	1.52	1.38
3	I	2101	FMN	C2-N3	6.97	1.52	1.38
3	J	2101	FMN	C9-C8	7.06	1.56	1.37
3	K	2101	FMN	C9-C8	7.08	1.56	1.37
3	J	2101	FMN	C2-N3	7.10	1.52	1.38
3	J	2101	FMN	C8-C7	7.16	1.59	1.41
3	L	2101	FMN	C6-C7	7.23	1.57	1.37
3	I	2101	FMN	C6-C7	7.30	1.57	1.37
3	H	2101	FMN	C4A-C10	7.33	1.53	1.41
3	L	2101	FMN	C4A-C10	7.40	1.54	1.41
3	G	2101	FMN	C6-C7	7.46	1.57	1.37
3	H	2101	FMN	C6-C7	7.52	1.57	1.37
3	G	2101	FMN	C4A-C10	7.53	1.54	1.41
3	J	2101	FMN	C6-C7	7.55	1.57	1.37
3	I	2101	FMN	C4A-C10	7.56	1.54	1.41
3	K	2101	FMN	C6-C7	7.66	1.58	1.37
3	K	2101	FMN	C4A-C10	7.67	1.54	1.41
3	H	2101	FMN	C2-N1	7.91	1.53	1.38
3	J	2101	FMN	C4A-C10	7.99	1.55	1.41
3	I	2101	FMN	C2-N1	8.11	1.54	1.38
3	L	2101	FMN	C2-N1	8.16	1.54	1.38
3	J	2101	FMN	C2-N1	8.23	1.54	1.38
3	G	2101	FMN	C9A-N10	8.40	1.49	1.38
3	G	2101	FMN	C2-N1	8.54	1.55	1.38
3	K	2101	FMN	C9A-N10	8.57	1.50	1.38
3	J	2101	FMN	C9A-N10	8.57	1.50	1.38
3	K	2101	FMN	C2-N1	8.69	1.55	1.38
3	H	2101	FMN	C9A-N10	8.72	1.50	1.38
3	L	2101	FMN	C9A-N10	8.78	1.50	1.38
3	G	2101	FMN	C9-C9A	8.81	1.59	1.40
3	I	2101	FMN	C9A-N10	8.82	1.50	1.38
3	L	2101	FMN	C9-C9A	9.00	1.59	1.40
3	H	2101	FMN	C9-C9A	9.02	1.60	1.40
3	I	2101	FMN	C9-C9A	9.10	1.60	1.40
3	H	2101	FMN	C4-N3	9.13	1.49	1.33
3	G	2101	FMN	C4-N3	9.19	1.49	1.33
3	J	2101	FMN	C9-C9A	9.21	1.60	1.40
3	L	2101	FMN	C4-N3	9.23	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	2101	FMN	C9-C9A	9.24	1.60	1.40
3	I	2101	FMN	C4-N3	9.26	1.49	1.33
3	K	2101	FMN	C4-N3	9.38	1.50	1.33
3	J	2101	FMN	C4-N3	9.47	1.50	1.33
3	G	2101	FMN	C5A-N5	10.17	1.50	1.35
3	L	2101	FMN	C5A-N5	10.20	1.51	1.35
3	I	2101	FMN	C5A-N5	10.31	1.51	1.35
3	H	2101	FMN	C5A-N5	10.36	1.51	1.35
3	J	2101	FMN	C5A-N5	10.47	1.51	1.35
3	K	2101	FMN	C5A-N5	10.57	1.51	1.35
3	L	2101	FMN	C10-N1	10.70	1.48	1.33
3	H	2101	FMN	C10-N1	10.79	1.48	1.33
3	I	2101	FMN	C10-N1	10.98	1.48	1.33
3	J	2101	FMN	C10-N1	10.99	1.48	1.33
3	L	2101	FMN	C6-C5A	11.10	1.58	1.41
3	G	2101	FMN	C6-C5A	11.12	1.58	1.41
3	G	2101	FMN	C10-N1	11.22	1.49	1.33
3	H	2101	FMN	C6-C5A	11.25	1.58	1.41
3	I	2101	FMN	C6-C5A	11.31	1.58	1.41
3	K	2101	FMN	C6-C5A	11.54	1.59	1.41
3	J	2101	FMN	C6-C5A	11.57	1.59	1.41
3	K	2101	FMN	C10-N1	11.62	1.49	1.33
3	I	2101	FMN	C4A-N5	12.08	1.50	1.33
3	G	2101	FMN	C4A-N5	12.32	1.51	1.33
3	H	2101	FMN	C4A-N5	12.44	1.51	1.33
3	L	2101	FMN	C4A-N5	12.48	1.51	1.33
3	J	2101	FMN	C4A-N5	12.73	1.51	1.33
3	K	2101	FMN	C4A-N5	12.83	1.51	1.33

All (44) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	2101	FMN	C4A-C4-N3	-3.10	119.07	123.48
3	H	2101	FMN	C4A-C10-N10	-2.91	118.50	120.52
3	J	2101	FMN	C1'-N10-C9A	-2.82	115.76	118.35
3	L	2101	FMN	C4A-C4-N3	-2.60	119.78	123.48
3	K	2101	FMN	C1'-N10-C9A	-2.55	116.01	118.35
3	I	2101	FMN	C4A-C4-N3	-2.53	119.88	123.48
3	H	2101	FMN	C4A-C4-N3	-2.49	119.93	123.48
3	J	2101	FMN	C4A-C10-N10	-2.44	118.82	120.52
3	L	2101	FMN	C4A-C10-N10	-2.40	118.85	120.52
3	K	2101	FMN	C4A-C10-N10	-2.39	118.86	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	2101	FMN	C1'-N10-C9A	-2.27	116.27	118.35
3	I	2101	FMN	C4A-C10-N10	-2.25	118.96	120.52
3	H	2101	FMN	C9A-C5A-N5	-2.22	118.93	122.24
3	I	2101	FMN	C9A-C5A-N5	-2.14	119.05	122.24
3	L	2101	FMN	C9A-C5A-N5	-2.12	119.08	122.24
3	J	2101	FMN	C9A-C5A-N5	-2.10	119.11	122.24
3	L	2101	FMN	C1'-N10-C9A	-2.09	116.43	118.35
3	K	2101	FMN	C9A-C5A-N5	-2.05	119.19	122.24
3	K	2101	FMN	C6-C5A-N5	2.04	121.36	118.97
3	K	2101	FMN	O5'-P-O1P	2.40	113.20	106.47
3	G	2101	FMN	C4A-N5-C5A	3.36	120.31	116.76
3	I	2101	FMN	C4A-N5-C5A	3.39	120.34	116.76
3	K	2101	FMN	C5A-C9A-N10	3.40	120.18	117.66
3	J	2101	FMN	C4A-N5-C5A	3.44	120.40	116.76
3	H	2101	FMN	C4A-N5-C5A	3.56	120.52	116.76
3	L	2101	FMN	C4A-N5-C5A	3.66	120.62	116.76
3	L	2101	FMN	C5A-C9A-N10	3.82	120.49	117.66
3	H	2101	FMN	C5A-C9A-N10	3.87	120.53	117.66
3	G	2101	FMN	C5A-C9A-N10	3.98	120.62	117.66
3	K	2101	FMN	C4A-N5-C5A	4.06	121.05	116.76
3	J	2101	FMN	C5A-C9A-N10	4.06	120.68	117.66
3	G	2101	FMN	C1'-N10-C10	4.34	122.96	118.50
3	H	2101	FMN	C1'-N10-C10	4.35	122.97	118.50
3	L	2101	FMN	C1'-N10-C10	4.43	123.05	118.50
3	I	2101	FMN	C5A-C9A-N10	4.44	120.95	117.66
3	K	2101	FMN	C1'-N10-C10	4.46	123.08	118.50
3	I	2101	FMN	C1'-N10-C10	4.91	123.53	118.50
3	J	2101	FMN	C1'-N10-C10	5.10	123.74	118.50
3	K	2101	FMN	C4-N3-C2	5.42	119.90	115.16
3	G	2101	FMN	C4-N3-C2	5.57	120.03	115.16
3	L	2101	FMN	C4-N3-C2	5.78	120.22	115.16
3	I	2101	FMN	C4-N3-C2	5.82	120.25	115.16
3	H	2101	FMN	C4-N3-C2	6.01	120.42	115.16
3	J	2101	FMN	C4-N3-C2	6.26	120.64	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 61 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	2101	FMN	10	0
3	H	2101	FMN	11	0
3	I	2101	FMN	9	0
3	J	2101	FMN	9	0
3	K	2101	FMN	12	0
3	L	2101	FMN	10	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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å²)	Q<0.9	
1	A	1457/1878 (77%)	-0.50	14 (0%)	82	67	17, 54, 105, 150	0
1	B	1464/1878 (77%)	-0.51	12 (0%)	86	71	16, 52, 111, 158	0
1	C	1462/1878 (77%)	-0.51	17 (1%)	79	61	15, 51, 111, 159	0
1	D	1467/1878 (78%)	-0.52	13 (0%)	84	69	17, 54, 108, 158	0
1	E	1456/1878 (77%)	-0.48	13 (0%)	84	69	15, 54, 110, 157	0
1	F	1461/1878 (77%)	-0.54	12 (0%)	86	71	16, 51, 108, 159	0
2	G	2060/2060 (100%)	-0.12	38 (1%)	69	47	27, 83, 129, 169	0
2	H	2060/2060 (100%)	-0.05	69 (3%)	47	24	24, 86, 132, 167	0
2	I	2060/2060 (100%)	-0.02	73 (3%)	44	22	23, 86, 132, 167	0
2	J	2060/2060 (100%)	0.03	66 (3%)	48	25	28, 89, 133, 172	0
2	K	2060/2060 (100%)	0.25	134 (6%)	20	7	27, 91, 136, 172	0
2	L	2060/2060 (100%)	0.01	76 (3%)	42	21	23, 87, 133, 172	0
All	All	21127/23628 (89%)	-0.20	537 (2%)	58	35	15, 75, 127, 172	0

All (537) RSRZ outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	FMN	G	2101	31/31	0.94	0.20	0.20	19,64,105,124	0
3	FMN	I	2101	31/31	0.93	0.18	-0.38	23,54,85,115	0
3	FMN	L	2101	31/31	0.94	0.18	-0.38	15,51,89,119	0
3	FMN	H	2101	31/31	0.94	0.18	-0.46	21,53,91,110	0
3	FMN	J	2101	31/31	0.94	0.15	-0.92	19,56,106,122	0
3	FMN	K	2101	31/31	0.90	0.19	-0.94	24,63,111,122	0

6.5 Other polymers [i](#)

There are no such residues in this entry.