



Full wwPDB EM Validation Report ⓘ

Aug 24, 2026 – 07:22 pm BST

PDB ID : 4BED / pdb_00004bed
EMDB ID : EMD-1569
Title : Keyhole limpet hemocyanin (KLH): 9A cryoEM structure and molecular model of the KLH1 didecamer reveal the interfaces and intricate topology of the 160 functional units
Authors : Gatsogiannis, C.; Markl, J.
Deposited on : 2013-03-08
Resolution : 9.00 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev133
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

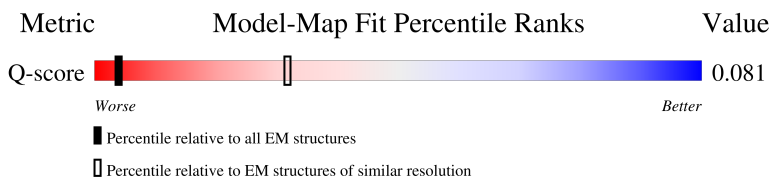
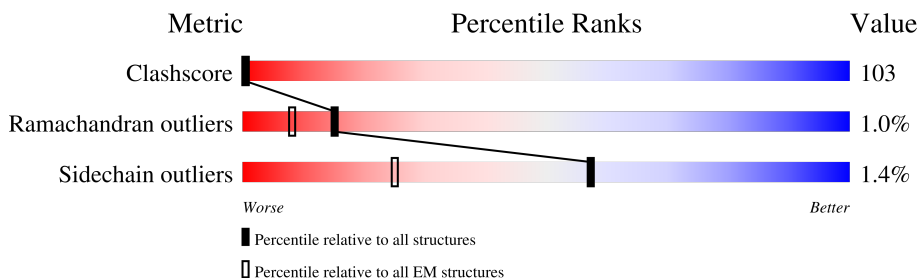
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 9.00 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	244 (8.60 - 9.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1664	28% 25% 66% 9%
1	C	1664	27% 24% 66% 9%
2	B	1734	33% 26% 64% 10%
2	D	1734	29% 26% 64% 10%

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	CUO	B	9008	-	-	X	-
3	CUO	D	9008	-	-	X	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 55292 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 HEMOCYANIN KLH1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1664	Total	C	N	O	S	0	0
			13530	8611	2347	2515	57		
1	C	1664	Total	C	N	O	S	0	0
			13530	8611	2347	2515	57		

There are 62 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	129	ASP	GLY	conflict	UNP Q53IP9
A	139	VAL	ALA	conflict	UNP Q53IP9
A	162	ALA	PRO	conflict	UNP Q53IP9
A	178	ALA	PRO	conflict	UNP Q53IP9
A	259	ASN	-	insertion	UNP Q53IP9
A	260	GLU	-	insertion	UNP Q53IP9
A	261	HIS	-	insertion	UNP Q53IP9
A	262	SER	-	insertion	UNP Q53IP9
A	263	THR	-	insertion	UNP Q53IP9
A	264	PRO	-	insertion	UNP Q53IP9
A	265	ALA	-	insertion	UNP Q53IP9
A	266	ASP	-	insertion	UNP Q53IP9
A	267	LEU	-	insertion	UNP Q53IP9
A	268	PHE	-	insertion	UNP Q53IP9
A	269	ASP	-	insertion	UNP Q53IP9
A	270	TYR	-	insertion	UNP Q53IP9
A	271	CYS	-	insertion	UNP Q53IP9
A	272	GLU	-	insertion	UNP Q53IP9
A	273	LEU	-	insertion	UNP Q53IP9
A	274	HIS	-	insertion	UNP Q53IP9
A	275	TYR	ASN	conflict	UNP Q53IP9
A	?	-	TYR	deletion	UNP Q53IP9
A	?	-	TRP	deletion	UNP Q53IP9
A	?	-	GLY	deletion	UNP Q53IP9
A	?	-	LEU	deletion	UNP Q53IP9
A	?	-	PRO	deletion	UNP Q53IP9

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	GLY	deletion	UNP Q53IP9
A	?	-	LYS	deletion	UNP Q53IP9
A	?	-	LEU	deletion	UNP Q53IP9
A	?	-	ASN	deletion	UNP Q53IP9
A	?	-	ARG	deletion	UNP Q53IP9
C	129	ASP	GLY	conflict	UNP Q53IP9
C	139	VAL	ALA	conflict	UNP Q53IP9
C	162	ALA	PRO	conflict	UNP Q53IP9
C	178	ALA	PRO	conflict	UNP Q53IP9
C	259	ASN	-	insertion	UNP Q53IP9
C	260	GLU	-	insertion	UNP Q53IP9
C	261	HIS	-	insertion	UNP Q53IP9
C	262	SER	-	insertion	UNP Q53IP9
C	263	THR	-	insertion	UNP Q53IP9
C	264	PRO	-	insertion	UNP Q53IP9
C	265	ALA	-	insertion	UNP Q53IP9
C	266	ASP	-	insertion	UNP Q53IP9
C	267	LEU	-	insertion	UNP Q53IP9
C	268	PHE	-	insertion	UNP Q53IP9
C	269	ASP	-	insertion	UNP Q53IP9
C	270	TYR	-	insertion	UNP Q53IP9
C	271	CYS	-	insertion	UNP Q53IP9
C	272	GLU	-	insertion	UNP Q53IP9
C	273	LEU	-	insertion	UNP Q53IP9
C	274	HIS	-	insertion	UNP Q53IP9
C	275	TYR	ASN	conflict	UNP Q53IP9
C	?	-	TYR	deletion	UNP Q53IP9
C	?	-	TRP	deletion	UNP Q53IP9
C	?	-	GLY	deletion	UNP Q53IP9
C	?	-	LEU	deletion	UNP Q53IP9
C	?	-	PRO	deletion	UNP Q53IP9
C	?	-	GLY	deletion	UNP Q53IP9
C	?	-	LYS	deletion	UNP Q53IP9
C	?	-	LEU	deletion	UNP Q53IP9
C	?	-	ASN	deletion	UNP Q53IP9
C	?	-	ARG	deletion	UNP Q53IP9

- Molecule 2 is a protein called HEMOCYANIN KLH1.

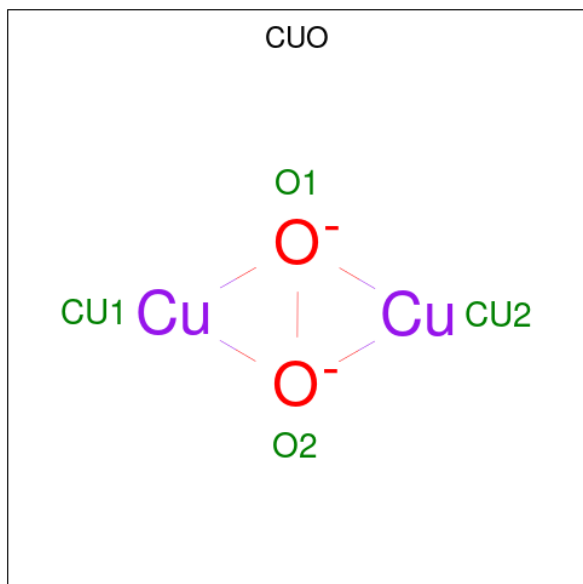
Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1734	Total	C	N	O	S	0	0
			14084	8985	2438	2594	67		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	1734	Total	C	N	O	S	0	0
			14084	8985	2438	2594	67		

- Molecule 3 is CU2-O2 CLUSTER (CCD ID: CUO) (formula: Cu_2O_2).



Mol	Chain	Residues	Atoms			AltConf
3	A	1	Total	Cu	O	0
			4	2	2	
3	A	1	Total	Cu	O	0
			4	2	2	
3	A	1	Total	Cu	O	0
			4	2	2	
3	A	1	Total	Cu	O	0
			4	2	2	
3	B	1	Total	Cu	O	0
			4	2	2	
3	B	1	Total	Cu	O	0
			4	2	2	
3	B	1	Total	Cu	O	0
			4	2	2	
3	B	1	Total	Cu	O	0
			4	2	2	
3	C	1	Total	Cu	O	0
			4	2	2	
3	C	1	Total	Cu	O	0
			4	2	2	

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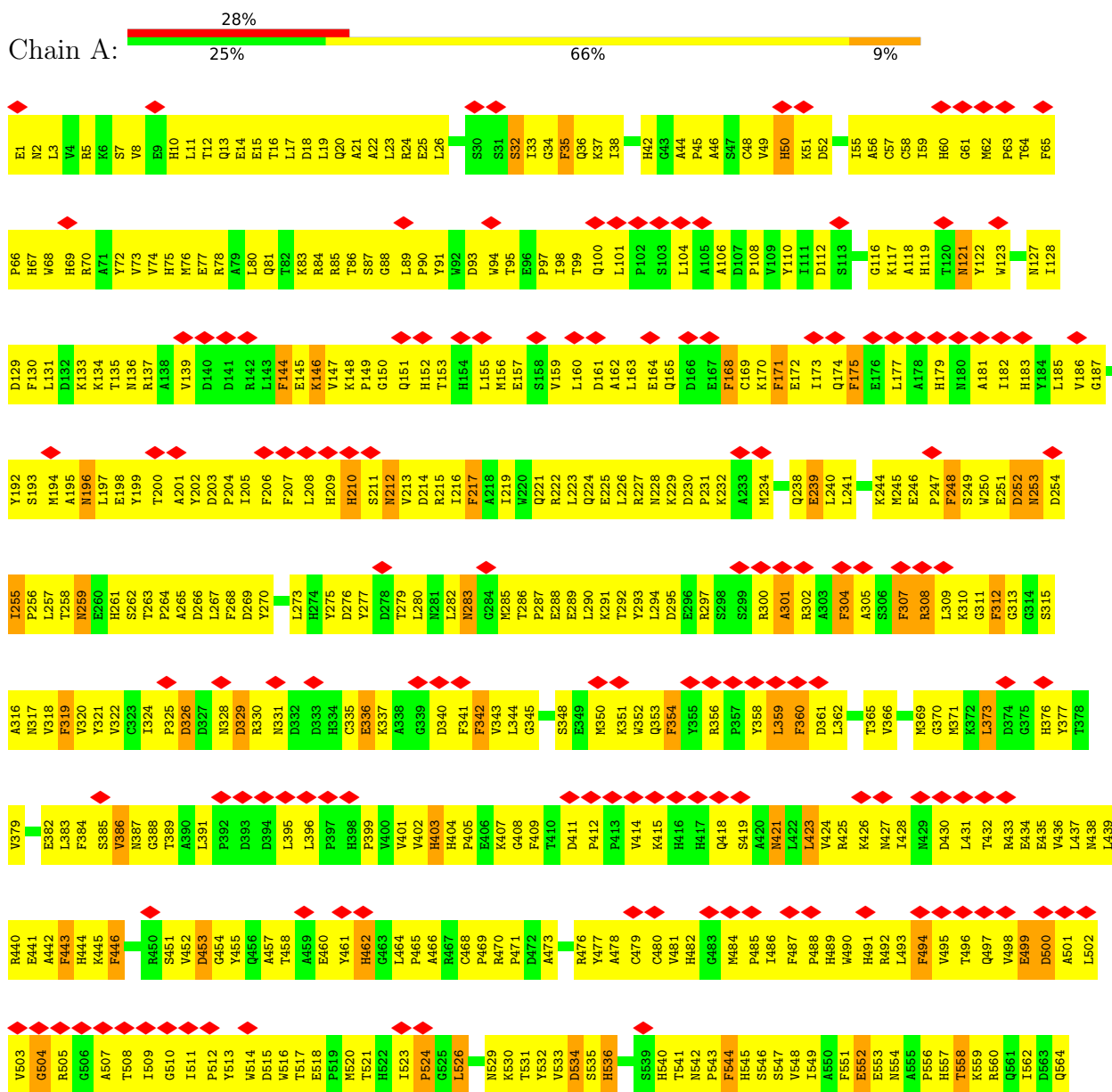
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Mol	Chain	Residues	Atoms			AltConf
3	C	1	Total 4	Cu 2	O 2	0
3	C	1	Total 4	Cu 2	O 2	0
3	D	1	Total 4	Cu 2	O 2	0
3	D	1	Total 4	Cu 2	O 2	0
3	D	1	Total 4	Cu 2	O 2	0
3	D	1	Total 4	Cu 2	O 2	0

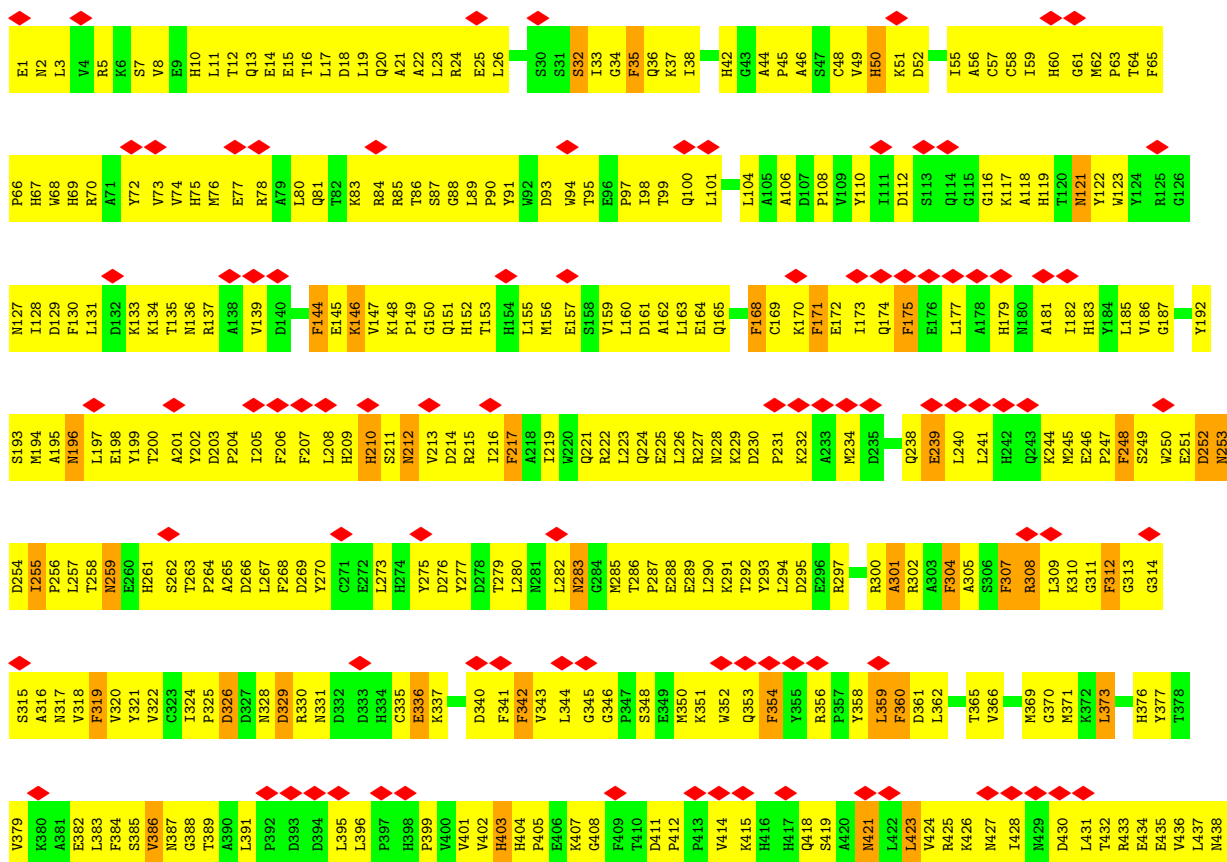
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

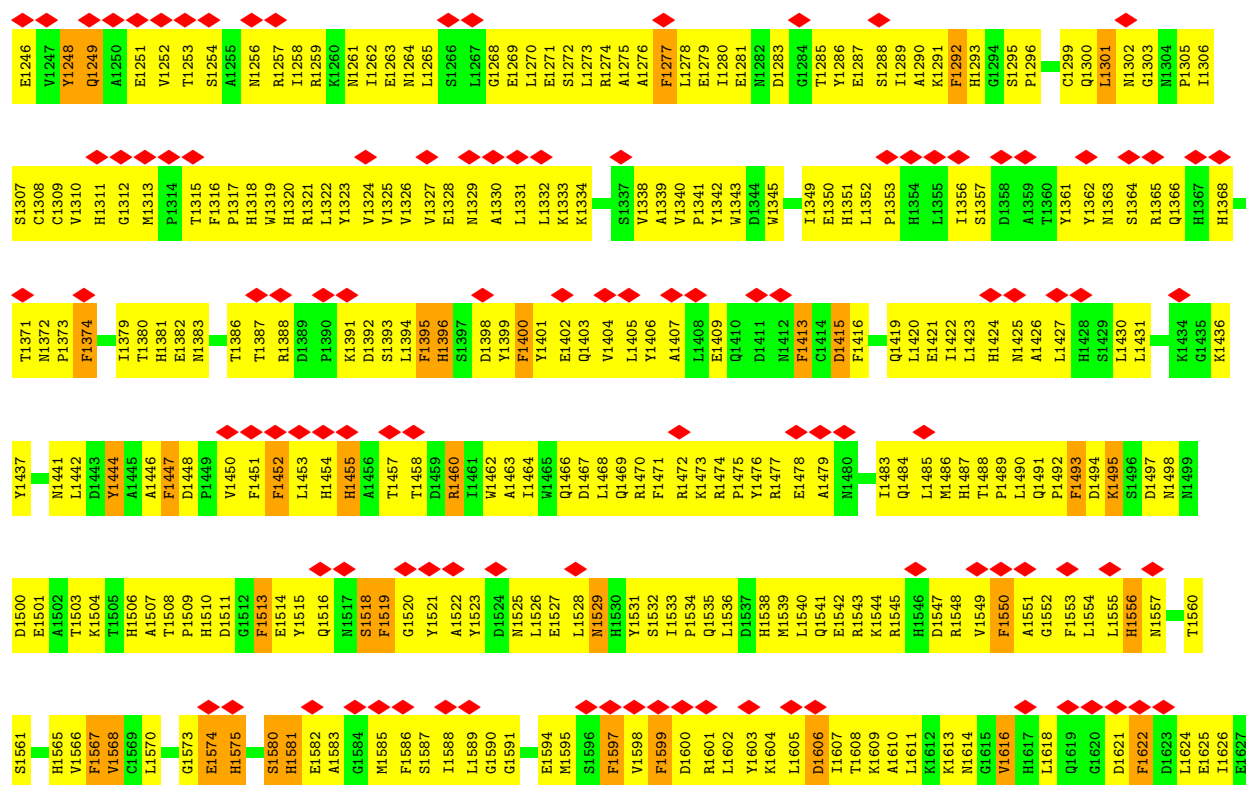
• Molecule 1: HEMOCYANIN KLH1



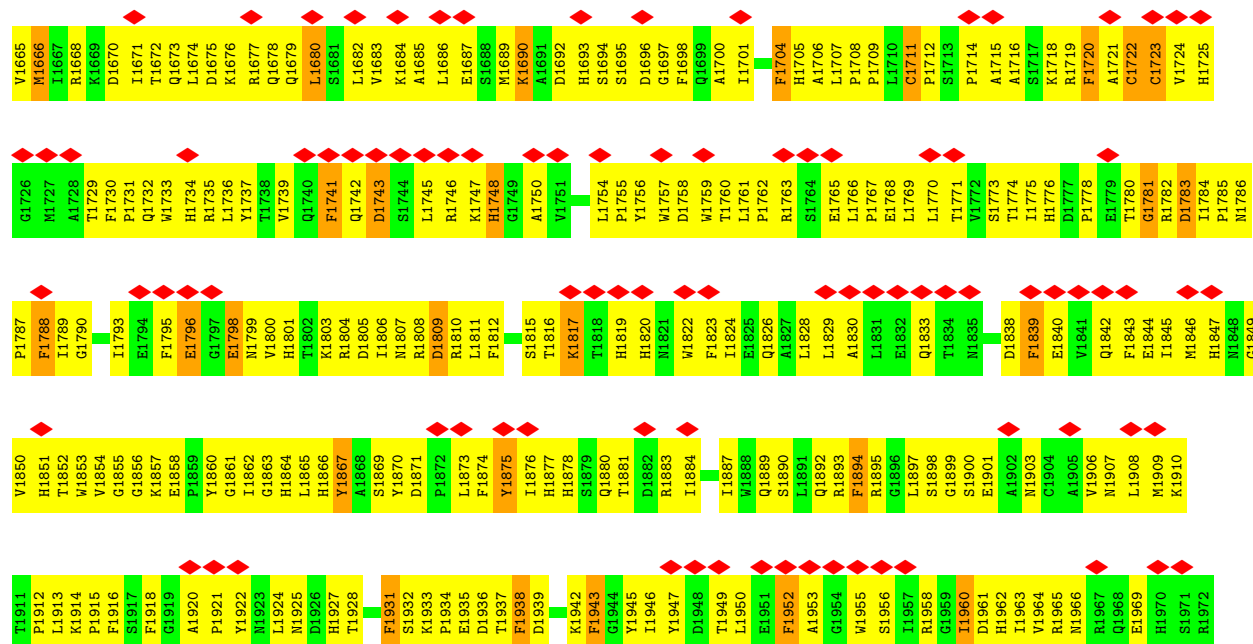
F1316	F1317	H1318	H1319	H1320	R1321	L1322	Y1323	V1324	V1325	V1326	V1327	E1328	A1329	L1330	L1331	L1332	K1333	K1334	V1338	A1339	V1340	P1341	Y1342	Y1343	Y1344	Y1345	T1349	E1350	H1351	L1352	P1353	H1354	L1355	T1356	S1357	F1358	A1359	S1360	Y1361	Y1362	N1363	S1364	R1365	Q1366	H1367	H1368	T1371	N1372	P1373	F1374	T1379	T1380	L1381	E1382	N1383					
A1255	N1256	R1257	L1258	R1259	K1260	N1261	L1262	E1263	N1264	L1265	S1266	L1267	G1268	E1269	L1270	E1271	S1272	L1273	R1274	A1275	A1276	F1277	L1278	E1279	L1280	E1281	N1282	D1283	G1284	L1285	L1286	E1287	S1288	L1289	A1290	K1291	F1292	G1293	S1294	S1295	P1296	G1299	Q1300	L1301	N1302	G1303	N1304	L1305	L1306	L1307	C1308	C1309	V1310	H1311	G1312	G1313	F1314	T1315		
K1192	Y1193	I1194	I1195	T1196	L1197	K1198	L1199	H1200	L1201	K1202	K1203	L1204	H1205	E1207	F1210	Y1211	I1212	D1213	Y1214	E1215	Y1216	F1217	D1218	L1219	K1220	L1224	G1225	K1226	D1227	L1228	F1229	K1230	Q1231	P1232	S1233	V1234	I1235	H1236	E1237	P1238	R1239	I1240	G1241	H1242	H1243	E1244	G1245	E1246	V1247	Y1248	Q1249	L1250	E1251	T1252	S1254					
A1070	N1071	C1072	A1073	V1074	T1075	S1076	N1077	R1078	E1079	P1080	L1081	Q1082	P1083	G1084	F1085	L1086	S1087	L1088	N1089	I1090	N1091	T1092	D1093	H1094	V1095	T1096	K1097	E1098	H1099	S1100	V1101	P1102	F1103	N1104	V1105	F1106	D1107	Y1108	K1109	L1110	F1112	N1113	Y1114	E1115	Y1116	D1117	T1118	L1119	E1120	F1121	N1122	G1123	L1124	S1125	I1126	Q1128	L1129			
N1130	K1131	K1132	L1133	E1134	L1135	T1136	K1137	L1138	L1139	D1140	R1141	F1142	F1143	A1144	G1145	F1146	L1147	L1148	S1149	G1150	F1151	K1152	K1153	S1154	S1155	L1156	V1157	K1158	F1159	N1160	I1161	C1162	T1163	D1164	C1168	H1169	P1170	A1171	G1172	E1173	F1174	Y1175	L1176	L1177	G1178	D1179	E1180	M1181	E1182	M1183	P1184	W1185	A1186	Y1187	D1188	R1189	V1190	F1191		
A1070	N1071	C1072	A1073	V1074	T1075	S1076	N1077	R1078	E1079	P1080	L1081	Q1082	P1083	G1084	F1085	L1086	S1087	L1088	N1089	I1090	N1091	T1092	D1093	H1094	V1095	T1096	K1097	E1098	H1099	S1100	V1101	P1102	F1103	N1104	V1105	F1106	D1107	Y1108	K1109	L1110	F1112	N1113	Y1114	E1115	Y1116	D1117	T1118	L1119	E1120	F1121	N1122	G1123	L1124	S1125	I1126	Q1128	L1129			
N1130	K1131	K1132	L1133	E1134	L1135	T1136	K1137	L1138	L1139	D1140	R1141	F1142	F1143	A1144	G1145	F1146	L1147	L1148	S1149	G1150	F1151	K1152	K1153	S1154	S1155	L1156	V1157	K1158	F1159	N1160	I1161	C1162	T1163	D1164	C1168	H1169	P1170	A1171	G1172	E1173	F1174	Y1175	L1176	L1177	G1178	D1179	E1180	M1181	E1182	M1183	P1184	W1185	A1186	Y1187	D1188	R1189	V1190	F1191		
K1192	Y1193	I1194	I1195	T1196	L1197	K1198	L1199	H1200	L1201	K1202	K1203	L1204	H1205	E1207	F1210	Y1211	I1212	D1213	Y1214	E1215	Y1216	F1217	D1218	L1219	K1220	L1224	G1225	K1226	D1227	L1228	F1229	K1230	Q1231	P1232	S1233	V1234	I1235	H1236	E1237	P1238	R1239	I1240	G1241	H1242	H1243	E1244	G1245	E1246	V1247	Y1248	Q1249	L1250	E1251	T1252	S1254					
A1255	N1256	R1257	L1258	R1259	K1260	N1261	L1262	E1263	N1264	L1265	S1266	L1267	G1268	E1269	L1270	E1271	S1272	L1273	R1274	A1275	A1276	F1277	L1278	E1279	L1280	E1281	N1282	D1283	G1284	L1285	L1286	E1287	S1288	L1289	A1290	K1291	F1292	G1293	S1294	S1295	P1296	G1299	Q1300	L1301	N1302	G1303	N1304	L1305	L1306	L1307	C1308	C1309	V1310	H1311	G1312	G1313	F1314	T1315		
F1316	F1317	H1318	H1319	H1320	R1321	L1322	Y1323	V1324	V1325	V1326	V1327	E1328	A1329	L1330	L1331	L1332	K1333	K1334	V1338	A1339	V1340	P1341	Y1342	Y1343	Y1344	Y1345	T1349	E1350	H1351	L1352	P1353	H1354	L1355	T1356	S1357	F1358	A1359	S1360	Y1361	Y1362	N1363	S1364	R1365	Q1366	H1367	H1368	T1371	N1372	P1373	F1374	T1379	T1380	L1381	E1382	N1383					
R565	L566	F567	T571	F572	G573	H574	H575	L576	D577	L578	F579	N580	Q581	I582	L583	Y584	A585	F586	E587	Q588	E589	D590	Y591	C592	D593	F594	E595	V596	Q597	F598	E599	I600	T601	H602	W603	T604	I605	H606	A607	W608	T609	G610	E613	H614	F615	S616	M617	S618	S619	L620	H621	Y622	T623	A624	F625	D626	P627			
L628	F629	Y630	F631	H632	H633	S634	N635	V636	D637	R638	L639	W640	A641	V642	W643	Q644	A645	L646	Q647	M648	R649	R650	H651	K652	P653	Y654	R655	A656	H657	C658	A659	E721	N722	Q723	L662	E663	H664	M665	H666	L667	K668	P669	F670	A671	F672	S673	S674	P675	L676	N677	S678	N679	L680	H681	T682	N685	A686	M687	P688	
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S752	V753	H754	Q755	A756	G757	G758	T759	F760	G765	S766	K767	E768	M769	K770	W771	G772	F773	D774	R775	V776	F777	K778	F779	L780	I781	T782	H783	W784	L785	K786	D787	L788	D789	L790	T791	A792	D793	G794	D795	F796	E797	V798	T799	V800	D801	I802	T803	E804	V805	D806	G807	T808	F745	K809	L810	A811	E812	S813	L814	
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W881	C882	P883	S884	P885	E886	A887	S888	K889	K890	H891	A892	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
H943	E944	K945	Y946	D951	G952	V953	E954	K955	H956	N957	P958	W959	F960	D961	G962	H963	I964	D965	V967	D968	F969	H970	T971	R972	R973	S974	V975	Q976	N977	F980	S981	Q982	P983	E984	F985	T989	S990	I991	A992	K993	Q994	V995	L996	L997	L998	E999	E1000	Q1001	D1002	N1003	F1004	C1005	F1007	E1008						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N935	H936	L937	L940						
I1009	Q1010	Y1011	E1012	I1013	A1014	H1015	N1016	Y1017	I1018	H1019	A1020	C893	C894	V895	H896	G897	M898	S899	V900	F901	H902	H903	Y904	H905	R906	L907	L908	T909	V910	Q911	S912	E913	N914	A915	L916	R917	H918	D922	G923	A924	L925	P926	Y927	Y928	D929	W930	T931	S932	P933	L934	N9									



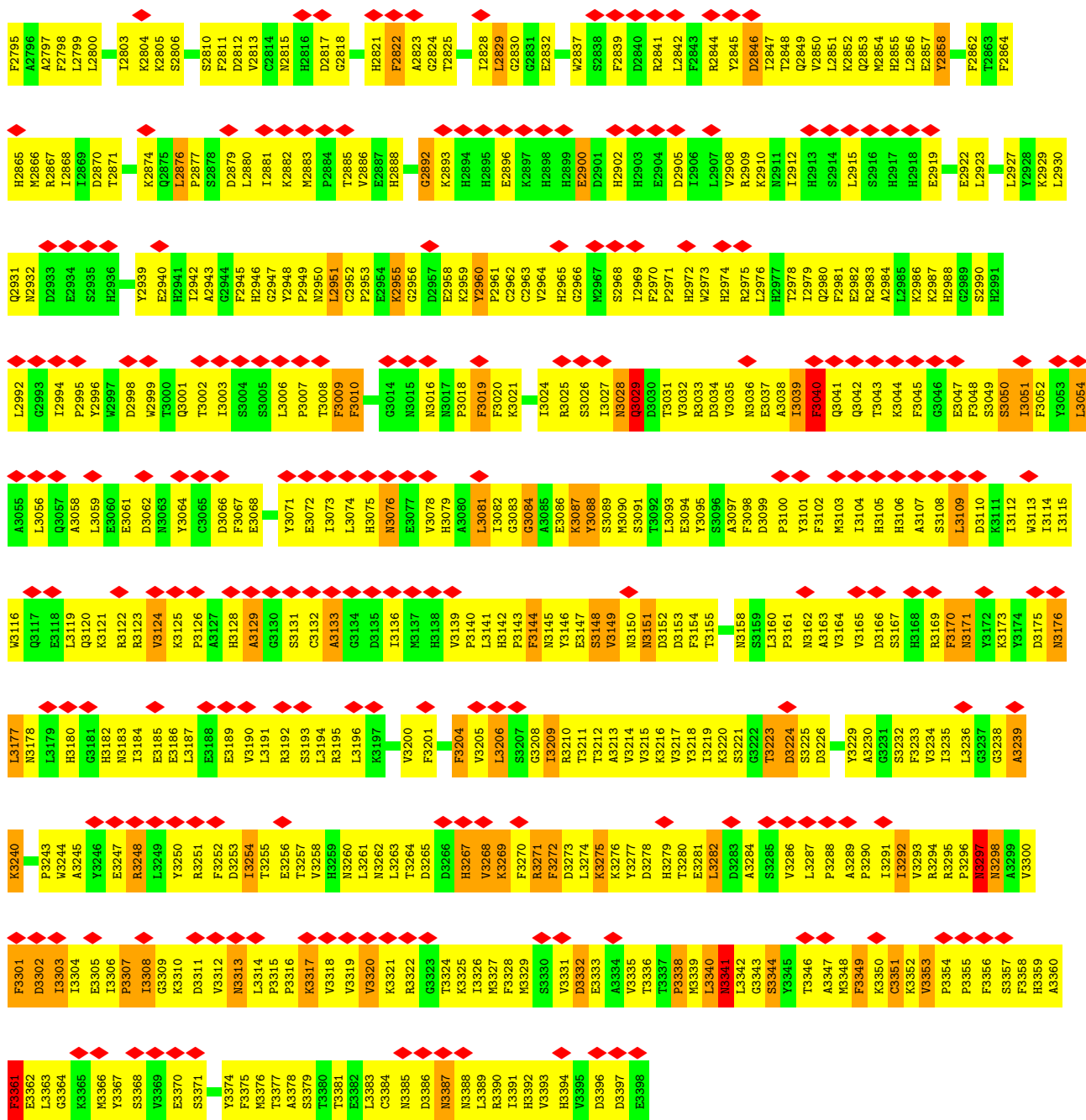
M1183	F1121	K1061	E1000	L934	A874	K809	T749	A886	F825	R565	L502	M1184	M1122	Y1062	L1061	L1185	W1186	A1186	Y1187	D1188	R1189	Q1128	L1127	S1127	I1126	S1125	L1124	G1124	M1064	R1063	G1123	W1185	F1184	M1183																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
W1186	L1123	V1069	F1007	E944	C882	A818	A757	G694	H632	I509	T508	E1191	V1190	F1191	K1192	L1193	D1194	I1195	T1196	E1197	K1198	L1199	Q1139	S1138	R1078	H1077	S1076	T1075	V1074	A1073	G1072	N1071	L1131	N1130	L1129	Q1128	R1189	D1188	Y1187	A1186	W1186	F1184	M1183																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
F1192	L1132	I1071	E1008	K945	P884	S819	A758	H696	H633	G510	I511	S451	V452	R450	F450	D453	G454	Y455	Q456	A457	T458	A459	E460	Y461	H462	G463	L464	P465	A466	R467	C468	P469	R470	P471	D472	A473	R476	Y477	A478	C479	C480	V481	H482	G483	M484	P485	I486	F487	P488	H489	W490	H491	R492	L493	F494	V495	T496	Q497	V498	E499	D500	A501																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
S451	L1133	A1073	E1012	D951	G852	V953	F759	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
V452	L1134	A1073	E1012	D951	G852	V953	F759	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
R450	L1135	V1074	E1013	G953	C894	F829	E768	L706	W642	I582	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S451	L1136	T1075	A1014	K955	E954	K889	G758	H696	H633	G510	I511	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
V452	L1137	S1076	H1015	K955	E954	K889	G758	H696	H633	G510	I511	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
D453	L1138	R1078	H1016	K956	N957	P958	F760	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Y455	Q1139	E1079	Y1017	N957	P958	W959	F760	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Q456	S1138	R1078	H1016	K956	N957	P958	F760	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A457	Q1139	E1079	Y1017	N957	P958	W959	F760	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
T458	S1139	E1079	Y1017	N957	P958	W959	F760	L698	V636	H574	T576	P512	Y513	W514	D515	F516	T517	E518	P519	M520	T521	I523	P524	G525	L526	N529	K530	T531	Y532	V533	D534	S535	H536	H540	T541	N542	P543	F544	H545	S546	S547	V548	I549	A550	E551	E552	E553	N554	A555	P556	H557	T558	K559	R560	Q561	T562	D563	Q564																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A459	D1140	L1081	H1018	K959	F960	D961	G962	H963	I964	D965	T966	P967	G968	K969	N970	T971	T972	R973	S974	V975	Q976	N977	F980	E981	Q982	F983	E984	F985	G986	H987	Y988	T989	S990	A992	K993	Q994	V995	L996	L997	A998	L999																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



• Molecule 2: HEMOCYANIN KLH1



N2732	K2733	R2734	L2735	L2736	R2737	R2738	R2739	R2740	D2741	L2742	L2743	N2744	H2745	F2748	N2752	A2753	K2754	P2755	L2756	L2757	V2758	L2759	E2760	V2761	S2762	L2763	P2764	N2765	L2766	Q2767	V2768	L2769	N2770	L2771	L2772	R2773	H2774	G2775	N2776	L2777	L2778	K2779	K2780	E2781	E2782	L2783	E2784	L2785	E2786	L2787	Q2788	K2789	E2790	L2791	L2792	L2793	L2794
I2668	T2669	H2670	N2671	A2672	L2673	V2676	T2677	G2678	G2679	L2680	L2681	P2682	P2683	Q2684	M2685	S2686	L2688	E2689	V2690	L2691	L2692	L2693	D2694	P2695	L2696	L2697	L2698	L2699	H2700	H2701	A2702	N2703	L2704	D2705	R2706	L2707	L2708	V2711	Q2712	A2713	L2714	Q2715	E2716	V2717	L2718	Q2719	L2720	P2721	V2722	D2723	H2724	F2662	E2663	V2664	Q2665	F2666	E2667
V2606	T2607	D2608	E2609	E2610	D2611	N2612	P2613	F2614	H2615	H2618	L2619	D2620	L2621	L2622	G2623	V2624	D2625	L2626	T2627	L2628	D2629	R2631	D2632	K2633	L2634	F2635	L2636	D2637	P2638	E2639	R2640	G2641	S2642	E2643	S2644	F2645	F2646	V2647	R2648	Q2649	V2650	L2651	L2652	A2653	L2654	E2655	Q2656	L2657	D2658	D2659	C2660	Q2661	F2662	E2663	V2664	Q2665	F2666
H2542	G2543	N2544	P2545	P2546	M2547	C2548	F2549	M2550	N2555	V2556	S2557	C2558	L2559	T2560	H2561	Q2562	M2563	A2564	T2565	P2566	F2567	H2568	V2569	H2570	L2571	Y2573	T2574	K2575	Q2576	M2577	E2578	D2579	A2580	L2581	T2582	A2583	H2584	R2587	V2588	Q2589	L2590	P2591	Y2592	V2593	D2594	G2595	L2596	T2597	A2598	F2599	T2600	A2601	L2602	P2603	T2604	F2605	
A2479	P2480	T2481	L2482	L2483	V2484	E2485	F2486	G2487	L2488	H2489	H2490	H2491	E2492	D2493	H2494	H2495	S2496	S2497	S2498	H2499	A2500	G2501	H2502	G2503	K2506	E2507	L2508	N2509	T2510	L2511	T2512	A2514	V2515	V2516	L2517	N2518	K2519	K2520	D2521	A2522	N2523	V2526	M2527	A2528	G2529	H2530	Q2531	N2532	M2533	G2534	Y2535	L2538	A2539	F2541			
L2354	G2355	Y2356	G2357	Y2358	E2362	L2363	G2364	G2365	M2366	N2367	L2368	H2369	E2370	L2371	E2372	K2373	E2374	L2375	K2376	D2377	H2380	H2381	R2382	V2383	L2384	F2385	A2386	G2387	F2388	L2389	L2390	H2391	G2392	L2393	R2394	T2395	S2396	A2397	D2398	Q2400	F2401	Q2402	L2403	C2404	K2405	T2406	S2407	E2408	D2409	C2410	H2411	H2412	G2413	G2414	Q2415	L2416	
F2417	V2418	L2419	G2420	G2421	T2422	K2423	E2424	M2425	A2426	V2427	A2428	V2429	N2430	R2431	L2432	F2433	K2434	Y2435	D2436	L2437	T2438	H2439	A2440	L2441	A2444	H2445	L2446	T2447	P2448	E2449	D2450	V2451	F2452	H2453	S2455	E2456	P2457	F2458	T2459	L2460	K2461	V2462	S2463	V2464	A2465	A2466	V2467	N2468	V2471	L2472	P2473	A2474	S2475	L2476	L2477	H2478	
A2479	P2480	T2481	L2482	L2483	V2484	E2485	F2486	G2487	L2488	H2489	H2490	H2491	E2492	D2493	H2494	H2495	S2496	S2497	S2498	H2499	A2500	G2501	H2502	G2503	K2506	E2507	L2508	N2509	T2510	L2511	T2512	A2514	V2515	V2516	L2517	N2518	K2519	K2520	D2521	A2522	N2523	V2526	M2527	A2528	G2529	H2530	Q2531	N2532	M2533	G2534	Y2535	L2538	A2539	F2541			
H2542	G2543	N2544	P2545	P2546	M2547	C2548	F2549	M2550	N2555	V2556	S2557	C2558	L2559	T2560	H2561	Q2562	M2563	A2564	T2565	P2566	F2567	H2568	V2569	H2570	L2571	Y2573	T2574	K2575	Q2576	M2577	E2578	D2579	A2580	L2581	T2582	A2583	H2584	R2587	V2588	Q2589	L2590	P2591	Y2592	V2593	D2594	G2595	L2596	T2597	A2598	F2599	T2600	A2601	L2602	P2603	T2604	F2605	
V2606	T2607	D2608	E2609	E2610	D2611	N2612	P2613	F2614	H2615	H2618	L2619	D2620	L2621	L2622	G2623	V2624	D2625	L2626	T2627	L2628	D2629	R2631	D2632	K2633	L2634	F2635	L2636	D2637	P2638	E2639	R2640	G2641	S2642	E2643	S2644	F2645	F2646	V2647	R2648	Q2649	V2650	L2651	L2652	A2653	L2654	E2655	Q2656	L2657	D2658	D2659	C2660	Q2661	F2662	E2663	V2664	Q2665	F2666
I2668	T2669	H2670	N2671	A2672	L2673	V2676	T2677	G2678	G2679	L2680	L2681	P2682	P2683	Q2684	M2685	S2686	L2688	E2689	V2690	L2691	L2692	L2693	D2694	P2695	L2696	L2697	L2698	L2699	H2700	H2701	A2702	N2703	L2704	D2705	R2706	L2707	L2708	V2711	Q2712	A2713	L2714	Q2715	E2716	V2717	L2718	Q2719	L2720	P2721	V2722	D2723	H2724	F2662	E2663	V2664	Q2665	F2666	
N2732	K2733	R2734	L2735	L2736	R2737	R2738	R2739	R2740	D2741	L2742	L2743	N2744	H2745	F2748	N2752	A2753	K2754	P2755	L2756	L2757	V2758	L2759	E2760	V2761	S2762	L2763	P2764	N2765	L2766	Q2767	V2768	L2769	N2770	L2771	L2772	R2773	H2774	G2775	N2776	L2777	L2778	K2779	K2780	E2781	E2782	L2783	E2784	L2785	E2786	L2787	Q2788	K2789	E2790	L2791	L2792	L2793	L2794







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D5	Depositor
Number of particles used	4762	Depositor
Resolution determination method	Not provided	
CTF correction method	PER MICROGRAPH	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.037	Depositor
Minimum map value	-0.023	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.006	Depositor
Map size ($\text{\AA}$)	558, 558, 558	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	1.24, 1.24, 1.24	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	1.40	2/13940 (0.0%)	1.76	231/18926 (1.2%)
1	C	1.40	4/13940 (0.0%)	1.76	229/18926 (1.2%)
2	B	1.35	7/14526 (0.0%)	1.67	186/19734 (0.9%)
2	D	1.35	7/14526 (0.0%)	1.67	180/19734 (0.9%)
All	All	1.38	20/56932 (0.0%)	1.71	826/77320 (1.1%)

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	C	0	1
2	B	0	2
2	D	0	2
All	All	0	6

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	524	PRO	N-CD	16.13	1.70	1.47
1	A	524	PRO	N-CD	16.11	1.70	1.47
2	B	2457	PRO	N-CD	13.77	1.67	1.47
2	D	2457	PRO	N-CD	13.72	1.67	1.47
1	C	468	CYS	CB-SG	-10.52	1.82	2.03
1	C	653	PRO	N-CD	8.95	1.60	1.47
1	A	653	PRO	N-CD	8.87	1.60	1.47
2	D	2489	ASP	CA-C	-6.64	1.50	1.53
2	B	1722	CYS	CA-C	-6.08	1.45	1.52
2	B	2502	HIS	CA-C	-6.05	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	1722	CYS	CA-C	-5.95	1.45	1.52
2	D	1799	ASN	CA-C	-5.72	1.47	1.53
2	D	2071	HIS	CA-C	-5.67	1.49	1.52
2	B	1799	ASN	CA-C	-5.57	1.47	1.53
2	B	2071	HIS	CA-C	-5.53	1.49	1.52
2	D	2195	TRP	NE1-CE2	-5.53	1.31	1.37
2	B	2195	TRP	NE1-CE2	-5.46	1.31	1.37
2	D	1723	CYS	N-CA	-5.33	1.40	1.46
2	B	1723	CYS	N-CA	-5.31	1.40	1.46
1	C	731	GLY	CA-C	-5.01	1.48	1.52

All (826) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1632	ASN	CB-CG-OD1	-38.10	44.60	120.80
1	A	1632	ASN	CB-CG-OD1	-38.08	44.65	120.80
1	A	212	ASN	CB-CG-OD1	-37.85	45.10	120.80
1	C	212	ASN	CB-CG-OD1	-37.84	45.13	120.80
1	C	212	ASN	OD1-CG-ND2	15.90	138.50	122.60
1	A	212	ASN	OD1-CG-ND2	15.84	138.44	122.60
1	A	1632	ASN	OD1-CG-ND2	15.56	138.16	122.60
1	C	1632	ASN	OD1-CG-ND2	15.45	138.05	122.60
1	A	212	ASN	CB-CG-ND2	-15.36	93.35	116.40
1	C	212	ASN	CB-CG-ND2	-15.34	93.39	116.40
1	C	1632	ASN	CB-CG-ND2	-15.30	93.45	116.40
1	A	1632	ASN	CB-CG-ND2	-15.25	93.52	116.40
2	B	2186	PHE	CA-CB-CG	-11.46	102.34	113.80
2	D	2186	PHE	CA-CB-CG	-11.45	102.35	113.80
1	A	793	ASP	CA-CB-CG	-11.07	101.53	112.60
1	C	793	ASP	CA-CB-CG	-11.03	101.57	112.60
2	D	1931	PHE	CA-CB-CG	-10.41	103.39	113.80
2	B	1931	PHE	CA-CB-CG	-10.37	103.43	113.80
2	D	3010	PHE	CA-CB-CG	-9.75	104.05	113.80
2	B	3010	PHE	CA-CB-CG	-9.70	104.11	113.80
2	D	2645	PHE	CA-CB-CG	-9.54	104.27	113.80
2	B	2635	PHE	CA-CB-CG	-9.49	104.31	113.80
2	B	2645	PHE	CA-CB-CG	-9.48	104.32	113.80
1	A	1169	HIS	CA-CB-CG	9.45	123.25	113.80
1	C	1169	HIS	CA-CB-CG	9.43	123.23	113.80
2	D	2635	PHE	CA-CB-CG	-9.36	104.44	113.80
2	D	3353	VAL	CA-C-N	9.26	126.33	119.66
2	D	3353	VAL	C-N-CA	9.26	126.33	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	328	ASN	CA-CB-CG	-9.19	103.41	112.60
1	C	328	ASN	CA-CB-CG	-9.17	103.43	112.60
2	B	3353	VAL	CA-C-N	9.16	126.35	119.66
2	B	3353	VAL	C-N-CA	9.16	126.35	119.66
2	D	3040	PHE	CA-CB-CG	-9.07	104.73	113.80
2	B	3040	PHE	CA-CB-CG	-9.06	104.74	113.80
2	D	3170	PHE	CA-CB-CG	-9.04	104.76	113.80
1	A	1244	GLU	CA-C-N	9.02	129.77	119.94
1	A	1244	GLU	C-N-CA	9.02	129.77	119.94
1	C	1244	GLU	CA-C-N	9.01	129.76	119.94
1	C	1244	GLU	C-N-CA	9.01	129.76	119.94
2	B	3170	PHE	CA-CB-CG	-9.00	104.80	113.80
2	B	2288	PHE	CA-CB-CG	-8.80	105.00	113.80
2	D	2288	PHE	CA-CB-CG	-8.78	105.02	113.80
2	B	2614	PHE	CA-CB-CG	-8.58	105.22	113.80
2	D	2614	PHE	CA-CB-CG	-8.54	105.26	113.80
2	B	2646	PHE	CA-CB-CG	-8.48	105.32	113.80
2	D	2646	PHE	CA-CB-CG	-8.46	105.34	113.80
2	D	2489	ASP	N-CA-C	-8.36	101.92	108.78
2	B	1807	ASN	CA-CB-CG	-8.35	104.25	112.60
1	A	670	PHE	CA-CB-CG	-8.30	105.50	113.80
1	C	670	PHE	CA-CB-CG	-8.30	105.50	113.80
2	D	1807	ASN	CA-CB-CG	-8.26	104.34	112.60
1	C	737	ILE	N-CA-C	8.08	118.66	110.82
2	B	2951	LEU	N-CA-C	8.01	123.25	111.96
2	D	2951	LEU	N-CA-C	8.00	123.24	111.96
1	A	737	ILE	N-CA-C	8.00	118.58	110.82
1	C	984	GLU	N-CA-C	-7.93	102.58	111.07
1	A	984	GLU	N-CA-C	-7.91	102.61	111.07
2	D	3298	ASN	CA-CB-CG	-7.88	104.72	112.60
2	B	3298	ASN	CA-CB-CG	-7.88	104.72	112.60
1	A	796	PHE	CA-CB-CG	-7.81	105.99	113.80
1	C	796	PHE	CA-CB-CG	-7.78	106.02	113.80
2	D	2759	PHE	CA-CB-CG	-7.77	106.03	113.80
2	B	2759	PHE	CA-CB-CG	-7.74	106.06	113.80
1	C	1447	PHE	CA-CB-CG	-7.73	106.07	113.80
2	D	3349	PHE	CA-CB-CG	-7.71	106.09	113.80
1	A	1447	PHE	CA-CB-CG	-7.71	106.09	113.80
2	B	3349	PHE	CA-CB-CG	-7.69	106.11	113.80
2	B	2632	ASP	CA-CB-CG	-7.67	104.93	112.60
2	B	2329	PHE	CA-CB-CG	-7.62	106.18	113.80
2	B	2599	PHE	CA-CB-CG	-7.60	106.20	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1256	ASN	N-CA-C	7.60	119.46	111.03
2	D	2329	PHE	CA-CB-CG	-7.59	106.21	113.80
1	A	1233	SER	CA-C-N	-7.59	113.78	123.19
1	A	1233	SER	C-N-CA	-7.59	113.78	123.19
1	A	248	PHE	CA-CB-CG	-7.58	106.22	113.80
1	C	248	PHE	CA-CB-CG	-7.58	106.22	113.80
1	C	1256	ASN	N-CA-C	7.57	119.43	111.03
2	D	2632	ASP	CA-CB-CG	-7.55	105.05	112.60
1	C	1233	SER	CA-C-N	-7.54	113.84	123.19
1	C	1233	SER	C-N-CA	-7.54	113.84	123.19
2	D	2599	PHE	CA-CB-CG	-7.51	106.29	113.80
1	A	421	ASN	CA-CB-CG	-7.39	105.21	112.60
1	C	421	ASN	CA-CB-CG	-7.37	105.23	112.60
2	D	1788	PHE	CA-CB-CG	-7.34	106.46	113.80
2	B	1788	PHE	CA-CB-CG	-7.32	106.48	113.80
1	A	1519	PHE	CA-CB-CG	-7.31	106.49	113.80
2	B	1809	ASP	N-CA-C	-7.31	104.34	113.18
2	D	2458	PHE	CA-CB-CG	7.29	121.09	113.80
2	B	2458	PHE	CA-CB-CG	7.27	121.07	113.80
1	A	1493	PHE	CA-CB-CG	-7.27	106.53	113.80
1	C	1493	PHE	CA-CB-CG	-7.27	106.53	113.80
2	D	1809	ASP	N-CA-C	-7.26	104.39	113.18
1	C	1519	PHE	CA-CB-CG	-7.26	106.54	113.80
1	C	625	PHE	CA-CB-CG	-7.21	106.58	113.80
2	B	3301	PHE	CA-CB-CG	-7.20	106.60	113.80
1	A	625	PHE	CA-CB-CG	-7.20	106.60	113.80
2	D	3301	PHE	CA-CB-CG	-7.20	106.60	113.80
1	A	370	GLY	N-CA-C	-7.18	105.58	114.92
1	C	370	GLY	N-CA-C	-7.17	105.61	114.92
1	A	598	PHE	CA-CB-CG	-7.15	106.65	113.80
1	C	598	PHE	CA-CB-CG	-7.14	106.66	113.80
2	D	3009	PHE	CA-CB-CG	-7.10	106.70	113.80
2	B	3009	PHE	CA-CB-CG	-7.09	106.71	113.80
2	B	3051	ILE	CB-CA-C	-7.07	102.83	111.88
2	D	3051	ILE	CB-CA-C	-7.04	102.86	111.88
2	B	1741	PHE	CA-CB-CG	-7.04	106.76	113.80
1	C	1103	PHE	CA-CB-CG	-7.03	106.77	113.80
2	D	1741	PHE	CA-CB-CG	-7.03	106.77	113.80
1	A	1580	SER	N-CA-C	-7.02	103.70	111.36
2	D	3019	PHE	CA-CB-CG	-7.02	106.78	113.80
1	A	1567	PHE	CA-CB-CG	-7.02	106.78	113.80
1	A	1103	PHE	CA-CB-CG	-7.02	106.78	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2637	ASP	CA-CB-CG	-7.02	105.58	112.60
1	A	1574	GLU	CA-C-N	7.01	130.24	120.29
1	A	1574	GLU	C-N-CA	7.01	130.24	120.29
2	D	1938	PHE	CA-CB-CG	-7.01	106.79	113.80
1	A	443	PHE	CA-CB-CG	-6.99	106.81	113.80
1	A	1038	PHE	CA-CB-CG	-6.99	106.81	113.80
2	B	1938	PHE	CA-CB-CG	-6.99	106.81	113.80
1	C	1574	GLU	CA-C-N	6.99	130.21	120.29
1	C	1574	GLU	C-N-CA	6.99	130.21	120.29
1	C	443	PHE	CA-CB-CG	-6.98	106.82	113.80
2	D	2739	PHE	CA-CB-CG	-6.98	106.82	113.80
1	C	1580	SER	N-CA-C	-6.98	103.75	111.36
1	A	536	HIS	N-CA-C	-6.97	103.61	111.14
1	C	1567	PHE	CA-CB-CG	-6.96	106.84	113.80
1	C	1038	PHE	CA-CB-CG	-6.96	106.84	113.80
2	D	1979	LEU	CA-C-N	6.96	130.88	120.31
2	D	1979	LEU	C-N-CA	6.96	130.88	120.31
2	B	3019	PHE	CA-CB-CG	-6.95	106.85	113.80
1	C	1393	SER	N-CA-C	-6.95	104.77	113.18
1	C	586	PHE	CA-CB-CG	-6.94	106.86	113.80
2	B	1979	LEU	CA-C-N	6.93	130.84	120.31
2	B	1979	LEU	C-N-CA	6.93	130.84	120.31
1	A	586	PHE	CA-CB-CG	-6.91	106.89	113.80
2	B	2637	ASP	CA-CB-CG	-6.91	105.69	112.60
1	C	536	HIS	N-CA-C	-6.91	103.68	111.14
1	A	1393	SER	N-CA-C	-6.91	104.82	113.18
1	A	1239	ARG	N-CA-C	-6.90	100.27	110.48
1	C	1239	ARG	N-CA-C	-6.88	100.29	110.48
2	D	3151	ASN	CA-CB-CG	-6.87	105.73	112.60
2	D	2293	PHE	CA-CB-CG	-6.87	106.93	113.80
1	A	526	LEU	N-CA-C	-6.86	103.73	111.07
2	D	3133	ALA	CA-C-N	6.86	128.98	120.34
2	D	3133	ALA	C-N-CA	6.86	128.98	120.34
2	B	2739	PHE	CA-CB-CG	-6.85	106.95	113.80
2	B	3151	ASN	CA-CB-CG	-6.84	105.75	112.60
1	C	526	LEU	N-CA-C	-6.84	103.75	111.07
2	B	2293	PHE	CA-CB-CG	-6.84	106.96	113.80
2	D	1916	PHE	CA-CB-CG	-6.83	106.97	113.80
1	A	1084	PHE	CA-CB-CG	-6.83	106.97	113.80
2	B	2213	ASP	N-CA-C	-6.81	104.92	113.23
1	C	1084	PHE	CA-CB-CG	-6.81	106.99	113.80
2	B	1916	PHE	CA-CB-CG	-6.81	106.99	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1452	PHE	CA-CB-CG	-6.80	107.00	113.80
2	B	3133	ALA	CA-C-N	6.79	128.90	120.34
2	B	3133	ALA	C-N-CA	6.79	128.90	120.34
1	C	1452	PHE	CA-CB-CG	-6.79	107.01	113.80
2	D	2213	ASP	N-CA-C	-6.79	104.95	113.23
2	D	3224	ASP	CA-CB-CG	-6.76	105.83	112.60
2	B	2351	TYR	CA-C-N	6.76	129.34	120.28
2	B	2351	TYR	C-N-CA	6.76	129.34	120.28
1	A	1395	PHE	CA-CB-CG	-6.75	107.05	113.80
1	A	1400	PHE	CA-CB-CG	-6.75	107.05	113.80
2	B	3224	ASP	CA-CB-CG	-6.74	105.86	112.60
1	C	534	ASP	N-CA-C	-6.74	104.02	111.36
1	C	1395	PHE	CA-CB-CG	-6.74	107.06	113.80
1	A	1210	PHE	CA-CB-CG	-6.73	107.07	113.80
2	D	2351	TYR	CA-C-N	6.73	129.29	120.28
2	D	2351	TYR	C-N-CA	6.73	129.29	120.28
1	A	534	ASP	N-CA-C	-6.72	104.03	111.36
1	C	1292	PHE	CA-CB-CG	-6.71	107.09	113.80
1	A	1243	HIS	CA-C-N	6.71	129.56	120.44
1	A	1243	HIS	C-N-CA	6.71	129.56	120.44
1	C	1400	PHE	CA-CB-CG	-6.71	107.09	113.80
1	A	1292	PHE	CA-CB-CG	-6.70	107.10	113.80
1	A	1374	PHE	CA-CB-CG	-6.70	107.10	113.80
2	B	3356	PHE	CA-CB-CG	-6.70	107.11	113.80
1	C	1413	PHE	CA-CB-CG	-6.70	107.11	113.80
1	A	500	ASP	CA-CB-CG	-6.69	105.91	112.60
2	D	3356	PHE	CA-CB-CG	-6.67	107.12	113.80
2	B	1720	PHE	CA-CB-CG	-6.67	107.13	113.80
1	C	1243	HIS	CA-C-N	6.66	129.50	120.44
1	C	1243	HIS	C-N-CA	6.66	129.50	120.44
1	A	1413	PHE	CA-CB-CG	-6.66	107.14	113.80
1	C	1210	PHE	CA-CB-CG	-6.66	107.14	113.80
2	D	1720	PHE	CA-CB-CG	-6.66	107.14	113.80
1	C	500	ASP	CA-CB-CG	-6.65	105.95	112.60
1	C	1374	PHE	CA-CB-CG	-6.65	107.15	113.80
1	A	580	ASN	CA-CB-CG	-6.63	105.97	112.60
1	C	580	ASN	CA-CB-CG	-6.62	105.98	112.60
2	D	2666	PHE	CA-CB-CG	-6.61	107.19	113.80
1	A	724	GLN	CA-C-N	6.61	130.25	120.87
1	A	724	GLN	C-N-CA	6.61	130.25	120.87
2	B	2666	PHE	CA-CB-CG	-6.61	107.19	113.80
1	C	1648	PHE	CA-CB-CG	-6.61	107.19	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	1796	GLU	N-CA-C	-6.60	100.51	110.28
1	A	329	ASP	N-CA-C	6.59	117.84	108.74
1	A	1648	PHE	CA-CB-CG	-6.59	107.21	113.80
2	B	1796	GLU	N-CA-C	-6.58	100.54	110.28
1	C	329	ASP	N-CA-C	6.58	117.82	108.74
1	C	724	GLN	CA-C-N	6.58	130.21	120.87
1	C	724	GLN	C-N-CA	6.58	130.21	120.87
1	A	1277	PHE	CA-CB-CG	-6.57	107.23	113.80
2	B	2683	TYR	CA-CB-CG	-6.57	102.08	113.90
2	D	2683	TYR	CA-CB-CG	-6.56	102.09	113.90
2	D	3144	PHE	CA-CB-CG	-6.55	107.25	113.80
1	A	615	PHE	CA-CB-CG	-6.52	107.28	113.80
1	C	1217	PHE	CA-CB-CG	-6.51	107.29	113.80
1	C	1277	PHE	CA-CB-CG	-6.50	107.30	113.80
1	C	615	PHE	CA-CB-CG	-6.50	107.30	113.80
1	A	1217	PHE	CA-CB-CG	-6.48	107.32	113.80
1	A	544	PHE	CA-CB-CG	-6.46	107.34	113.80
1	C	544	PHE	CA-CB-CG	-6.44	107.36	113.80
2	B	3144	PHE	CA-CB-CG	-6.44	107.36	113.80
1	A	494	PHE	CA-CB-CG	-6.43	107.37	113.80
1	C	494	PHE	CA-CB-CG	-6.43	107.37	113.80
2	D	2822	PHE	CA-CB-CG	-6.42	107.38	113.80
1	A	1121	PHE	CA-CB-CG	-6.41	107.39	113.80
2	B	2454	PRO	N-CA-C	6.40	121.98	113.40
1	A	196	ASN	CA-CB-CG	-6.39	106.21	112.60
2	B	2822	PHE	CA-CB-CG	-6.39	107.41	113.80
1	A	328	ASN	CA-C-N	-6.38	111.97	122.11
1	A	328	ASN	C-N-CA	-6.38	111.97	122.11
1	C	328	ASN	CA-C-N	-6.38	111.97	122.11
1	C	328	ASN	C-N-CA	-6.38	111.97	122.11
1	C	1302	ASN	CA-CB-CG	-6.38	106.22	112.60
1	C	175	PHE	CA-CB-CG	-6.38	107.42	113.80
1	C	1121	PHE	CA-CB-CG	-6.37	107.43	113.80
2	D	2454	PRO	N-CA-C	6.37	121.93	113.40
2	D	2684	GLY	CA-C-N	6.37	129.99	120.31
2	D	2684	GLY	C-N-CA	6.37	129.99	120.31
1	C	196	ASN	CA-CB-CG	-6.36	106.24	112.60
1	A	175	PHE	CA-CB-CG	-6.36	107.44	113.80
1	A	1302	ASN	CA-CB-CG	-6.35	106.25	112.60
2	D	2890	PRO	N-CA-C	6.35	120.59	111.13
1	C	558	THR	N-CA-C	-6.34	104.36	111.28
1	C	1191	PHE	CA-CB-CG	-6.34	107.45	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1191	PHE	CA-CB-CG	-6.34	107.46	113.80
2	B	2684	GLY	CA-C-N	6.33	129.94	120.31
2	B	2684	GLY	C-N-CA	6.33	129.94	120.31
1	A	558	THR	N-CA-C	-6.33	104.38	111.28
2	B	2892	GLY	CA-C-O	-6.33	115.99	122.26
2	B	2902	HIS	CA-CB-CG	6.33	120.13	113.80
2	D	3176	ASN	CA-CB-CG	-6.32	106.28	112.60
1	C	373	LEU	N-CA-C	-6.30	104.41	111.28
1	A	373	LEU	N-CA-C	-6.30	104.41	111.28
1	A	360	PHE	CA-CB-CG	-6.30	107.50	113.80
2	B	2456	GLU	N-CA-C	-6.28	102.17	110.40
2	B	1817	LYS	N-CA-C	-6.28	104.49	111.71
1	C	144	PHE	CA-CB-CG	-6.27	107.53	113.80
2	D	1743	ASP	CA-CB-CG	-6.27	106.33	112.60
1	A	144	PHE	CA-CB-CG	-6.26	107.54	113.80
1	A	217	PHE	CA-CB-CG	-6.26	107.54	113.80
2	B	3204	PHE	CA-C-N	6.25	133.23	121.97
2	B	3204	PHE	C-N-CA	6.25	133.23	121.97
1	C	360	PHE	CA-CB-CG	-6.25	107.55	113.80
2	D	3095	TYR	CA-CB-CG	-6.25	102.65	113.90
2	D	2456	GLU	N-CA-C	-6.25	102.22	110.40
2	D	1817	LYS	N-CA-C	-6.23	104.55	111.71
1	A	301	ALA	CA-C-N	-6.22	112.40	122.36
1	A	301	ALA	C-N-CA	-6.22	112.40	122.36
1	C	1471	PHE	CA-CB-CG	-6.22	107.58	113.80
2	B	3095	TYR	CA-CB-CG	-6.22	102.71	113.90
2	B	1743	ASP	CA-CB-CG	-6.21	106.39	112.60
2	B	3176	ASN	CA-CB-CG	-6.21	106.39	112.60
2	D	3204	PHE	CA-C-N	6.20	133.12	121.97
2	D	3204	PHE	C-N-CA	6.20	133.12	121.97
1	C	217	PHE	CA-CB-CG	-6.19	107.61	113.80
1	A	1471	PHE	CA-CB-CG	-6.18	107.61	113.80
1	C	301	ALA	CA-C-N	-6.18	112.47	122.36
1	C	301	ALA	C-N-CA	-6.18	112.47	122.36
2	D	1875	TYR	CA-CB-CG	-6.18	102.78	113.90
1	C	1004	PHE	CA-CB-CG	-6.17	107.63	113.80
1	C	1597	PHE	CA-CB-CG	-6.17	107.64	113.80
2	B	1875	TYR	CA-CB-CG	-6.16	102.81	113.90
1	C	779	PHE	CA-CB-CG	-6.16	107.64	113.80
1	A	1597	PHE	CA-CB-CG	-6.15	107.65	113.80
1	A	1004	PHE	CA-CB-CG	-6.14	107.66	113.80
2	B	1952	PHE	CA-CB-CG	-6.13	107.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	779	PHE	CA-CB-CG	-6.12	107.67	113.80
1	C	252	ASP	N-CA-C	-6.12	104.72	111.82
2	D	2501	GLY	N-CA-C	-6.12	104.13	112.52
1	A	252	ASP	N-CA-C	-6.12	104.72	111.82
1	A	869	PHE	CA-CB-CG	-6.12	107.68	113.80
1	C	1622	PHE	CA-CB-CG	-6.11	107.69	113.80
2	D	2748	PHE	CA-CB-CG	-6.11	107.69	113.80
1	C	1600	ASP	CA-CB-CG	-6.10	106.50	112.60
2	D	1952	PHE	CA-CB-CG	-6.09	107.71	113.80
1	A	1600	ASP	CA-CB-CG	-6.08	106.52	112.60
1	A	1622	PHE	CA-CB-CG	-6.08	107.72	113.80
1	C	1497	ASP	N-CA-C	-6.08	104.72	111.71
1	C	777	PHE	CA-CB-CG	-6.07	107.73	113.80
2	B	2748	PHE	CA-CB-CG	-6.06	107.74	113.80
2	D	3084	GLY	CA-C-N	6.06	131.75	121.14
2	D	3084	GLY	C-N-CA	6.06	131.75	121.14
1	A	777	PHE	CA-CB-CG	-6.05	107.75	113.80
1	A	1497	ASP	N-CA-C	-6.05	104.75	111.71
1	C	1149	SER	N-CA-C	-6.03	104.78	111.36
2	B	2662	PHE	CA-CB-CG	-6.03	107.78	113.80
1	C	869	PHE	CA-CB-CG	-6.02	107.78	113.80
1	A	1149	SER	N-CA-C	-6.02	104.80	111.36
1	C	1301	LEU	N-CA-C	-6.02	104.72	111.28
2	B	3084	GLY	CA-C-N	6.01	131.66	121.14
2	B	3084	GLY	C-N-CA	6.01	131.66	121.14
2	B	3302	ASP	CA-CB-CG	-6.01	106.59	112.60
1	C	730	ALA	CA-C-N	-6.00	116.97	122.80
1	C	730	ALA	C-N-CA	-6.00	116.97	122.80
1	A	1301	LEU	N-CA-C	-6.00	104.74	111.28
1	A	1616	VAL	CB-CA-C	-5.99	103.37	111.63
1	A	171	PHE	CA-CB-CG	-5.98	107.82	113.80
1	A	730	ALA	CA-C-N	-5.97	117.01	122.80
1	A	730	ALA	C-N-CA	-5.97	117.01	122.80
2	D	2157	PHE	CA-CB-CG	-5.97	107.83	113.80
1	C	1616	VAL	CB-CA-C	-5.97	103.39	111.63
2	D	2719	GLY	N-CA-C	-5.97	106.93	115.64
1	A	678	ASN	CA-CB-CG	-5.96	106.64	112.60
2	B	2157	PHE	CA-CB-CG	-5.95	107.85	113.80
2	D	3262	ASN	CA-CB-CG	-5.95	106.65	112.60
2	D	2662	PHE	CA-CB-CG	-5.95	107.85	113.80
1	C	171	PHE	CA-CB-CG	-5.95	107.85	113.80
1	A	307	PHE	CA-CB-CG	-5.94	107.86	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	3029	GLN	CB-CG-CD	-5.94	102.51	112.60
2	B	3029	GLN	CB-CG-CD	-5.93	102.51	112.60
1	A	121	ASN	CA-CB-CG	-5.93	106.67	112.60
2	D	2636	ASN	CA-CB-CG	-5.92	106.68	112.60
2	B	3262	ASN	CA-CB-CG	-5.92	106.68	112.60
1	C	678	ASN	CA-CB-CG	-5.92	106.68	112.60
2	B	2719	GLY	N-CA-C	-5.92	107.00	115.64
1	A	622	TYR	CA-CB-CG	-5.91	103.27	113.90
1	C	121	ASN	CA-CB-CG	-5.91	106.69	112.60
2	D	3302	ASP	CA-CB-CG	-5.91	106.69	112.60
2	B	2636	ASN	CA-CB-CG	-5.89	106.71	112.60
1	C	622	TYR	CA-CB-CG	-5.89	103.31	113.90
1	C	307	PHE	CA-CB-CG	-5.88	107.92	113.80
1	C	1574	GLU	CB-CG-CD	-5.88	102.60	112.60
1	A	1653	ASP	CA-CB-CG	-5.87	106.73	112.60
2	D	1977	PHE	CA-CB-CG	-5.87	107.93	113.80
2	D	3153	ASP	CA-CB-CG	-5.87	106.73	112.60
1	C	1653	ASP	CA-CB-CG	-5.86	106.74	112.60
1	A	1574	GLU	CB-CG-CD	-5.86	102.63	112.60
1	A	312	PHE	CA-CB-CG	-5.86	107.94	113.80
1	A	61	GLY	N-CA-C	-5.86	107.16	115.30
1	C	61	GLY	N-CA-C	-5.86	107.16	115.30
2	B	1977	PHE	CA-CB-CG	-5.86	107.94	113.80
2	B	2550	MET	N-CA-C	-5.86	101.60	110.50
2	B	3153	ASP	CA-CB-CG	-5.85	106.75	112.60
1	C	312	PHE	CA-CB-CG	-5.85	107.95	113.80
2	D	3154	PHE	CA-CB-CG	-5.85	107.95	113.80
2	D	2968	SER	CA-C-N	5.85	130.49	121.19
2	D	2968	SER	C-N-CA	5.85	130.49	121.19
2	B	3154	PHE	CA-CB-CG	-5.84	107.95	113.80
1	C	750	THR	N-CA-C	-5.84	104.99	111.71
1	A	499	GLU	CA-C-N	5.84	128.11	120.28
1	A	499	GLU	C-N-CA	5.84	128.11	120.28
2	B	1781	GLY	N-CA-C	-5.84	107.26	115.32
1	C	1329	ASN	CA-CB-CG	-5.84	106.76	112.60
2	B	1799	ASN	N-CA-C	-5.84	101.48	109.71
1	C	552	GLU	CB-CG-CD	-5.83	102.69	112.60
2	D	1799	ASN	N-CA-C	-5.83	101.49	109.71
1	A	552	GLU	CB-CG-CD	-5.82	102.70	112.60
1	A	1329	ASN	CA-CB-CG	-5.82	106.78	112.60
2	D	1781	GLY	N-CA-C	-5.82	107.28	115.32
1	C	1575	HIS	CA-C-N	5.82	129.75	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1575	HIS	C-N-CA	5.82	129.75	121.42
1	A	1553	PHE	CA-CB-CG	-5.82	107.98	113.80
1	A	750	THR	N-CA-C	-5.81	105.02	111.71
1	C	499	GLU	CA-C-N	5.81	128.06	120.28
1	C	499	GLU	C-N-CA	5.81	128.06	120.28
2	B	3088	TYR	CA-CB-CG	-5.81	103.45	113.90
1	A	386	VAL	N-CA-C	-5.80	104.70	110.62
2	D	2550	MET	N-CA-C	-5.80	101.68	110.50
1	A	1575	HIS	CA-C-N	5.80	129.71	121.42
1	A	1575	HIS	C-N-CA	5.80	129.71	121.42
1	C	386	VAL	N-CA-C	-5.79	104.72	110.62
2	B	2251	ASP	CA-CB-CG	-5.78	106.82	112.60
2	D	3088	TYR	CA-CB-CG	-5.78	103.49	113.90
1	C	1553	PHE	CA-CB-CG	-5.78	108.02	113.80
2	B	3332	ASP	CA-CB-CG	-5.78	106.82	112.60
1	A	1249	GLN	CA-C-N	5.77	128.58	120.28
1	A	1249	GLN	C-N-CA	5.77	128.58	120.28
2	D	2519	LEU	CB-CA-C	-5.77	101.83	110.88
2	B	2818	GLY	N-CA-C	-5.76	106.70	115.00
2	D	2818	GLY	N-CA-C	-5.76	106.71	115.00
2	D	2251	ASP	CA-CB-CG	-5.75	106.85	112.60
2	B	1711	CYS	CB-CA-C	-5.75	103.03	113.49
1	C	1249	GLN	CA-C-N	5.74	128.55	120.28
1	C	1249	GLN	C-N-CA	5.74	128.55	120.28
2	B	2073	ASP	CA-CB-CG	-5.74	106.86	112.60
2	D	2073	ASP	CA-CB-CG	-5.73	106.87	112.60
2	B	1894	PHE	CA-CB-CG	-5.73	108.07	113.80
2	B	2519	LEU	CB-CA-C	-5.73	101.89	110.88
2	B	2968	SER	CA-C-N	5.73	130.54	121.09
2	B	2968	SER	C-N-CA	5.73	130.54	121.09
2	B	2019	ASP	CA-CB-CG	-5.72	106.88	112.60
1	A	571	THR	N-CA-C	-5.72	104.95	111.07
2	D	1711	CYS	CB-CA-C	-5.72	103.07	113.49
1	A	1383	ASN	CA-CB-CG	-5.72	106.88	112.60
2	D	3332	ASP	CA-CB-CG	-5.72	106.88	112.60
1	A	985	PHE	CA-CB-CG	-5.72	108.08	113.80
1	C	1383	ASN	CA-CB-CG	-5.72	106.88	112.60
2	D	1807	ASN	N-CA-C	-5.72	105.05	111.28
1	C	571	THR	N-CA-C	-5.71	104.96	111.07
1	C	985	PHE	CA-CB-CG	-5.71	108.09	113.80
2	D	2019	ASP	CA-CB-CG	-5.70	106.90	112.60
2	B	1807	ASN	N-CA-C	-5.70	105.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	1894	PHE	CA-CB-CG	-5.69	108.11	113.80
2	B	2774	HIS	CA-CB-CG	-5.69	108.11	113.80
2	B	3272	PHE	CA-CB-CG	-5.69	108.11	113.80
1	A	1556	HIS	N-CA-C	-5.69	101.03	109.11
2	B	3361	PHE	CA-CB-CG	-5.69	108.11	113.80
2	D	3272	PHE	CA-CB-CG	-5.68	108.11	113.80
1	C	1556	HIS	N-CA-C	-5.68	101.04	109.11
2	B	1666	MET	CA-C-N	-5.68	115.77	123.10
2	B	1666	MET	C-N-CA	-5.68	115.77	123.10
1	C	146	LYS	CA-C-N	-5.68	115.63	122.90
1	C	146	LYS	C-N-CA	-5.68	115.63	122.90
1	C	1444	TYR	CA-CB-CG	-5.67	103.69	113.90
2	D	1870	TYR	CA-CB-CG	-5.67	103.69	113.90
2	B	2115	PHE	CA-CB-CG	-5.67	108.13	113.80
1	A	1444	TYR	CA-CB-CG	-5.67	103.69	113.90
2	D	2445	HIS	N-CA-C	-5.67	104.32	111.92
2	D	1666	MET	CA-C-N	-5.67	115.79	123.10
2	D	1666	MET	C-N-CA	-5.67	115.79	123.10
2	D	2774	HIS	CA-CB-CG	-5.67	108.14	113.80
2	D	3253	ASP	CA-C-N	5.66	130.30	121.35
2	D	3253	ASP	C-N-CA	5.66	130.30	121.35
2	B	1975	ALA	CA-C-N	-5.65	117.32	122.80
2	B	1975	ALA	C-N-CA	-5.65	117.32	122.80
2	D	2052	GLY	N-CA-C	-5.65	106.87	115.00
2	B	2445	HIS	N-CA-C	-5.64	104.36	111.92
2	B	2467	VAL	N-CA-C	-5.64	104.86	110.62
1	A	1194	ASP	CA-C-N	5.64	129.55	120.30
1	A	1194	ASP	C-N-CA	5.64	129.55	120.30
2	B	1870	TYR	CA-CB-CG	-5.64	103.75	113.90
1	C	789	ASP	N-CA-C	-5.64	106.35	113.23
2	B	2052	GLY	N-CA-C	-5.64	106.88	115.00
2	D	2115	PHE	CA-CB-CG	-5.63	108.17	113.80
1	A	146	LYS	CA-C-N	-5.63	115.70	122.90
1	A	146	LYS	C-N-CA	-5.63	115.70	122.90
1	A	319	PHE	CA-CB-CG	-5.63	108.17	113.80
1	C	1160	ASN	CA-CB-CG	-5.63	106.97	112.60
1	A	789	ASP	N-CA-C	-5.62	106.37	113.23
1	C	1194	ASP	CA-C-N	5.62	129.52	120.30
1	C	1194	ASP	C-N-CA	5.62	129.52	120.30
1	A	354	PHE	CA-CB-CG	-5.62	108.18	113.80
1	A	1160	ASN	CA-CB-CG	-5.62	106.98	112.60
2	D	2252	PHE	CA-CB-CG	-5.62	108.18	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2587	ARG	N-CA-C	-5.62	101.73	110.10
2	B	2902	HIS	CA-C-N	5.61	130.14	122.34
2	B	2902	HIS	C-N-CA	5.61	130.14	122.34
2	D	1975	ALA	CA-C-N	-5.61	117.36	122.80
2	D	1975	ALA	C-N-CA	-5.61	117.36	122.80
2	B	2587	ARG	N-CA-C	-5.60	101.75	110.10
1	C	354	PHE	CA-CB-CG	-5.60	108.20	113.80
2	B	2526	VAL	CB-CA-C	-5.60	104.58	112.14
2	B	3253	ASP	CA-C-N	5.60	130.20	121.35
2	B	3253	ASP	C-N-CA	5.60	130.20	121.35
2	D	2467	VAL	N-CA-C	-5.60	104.91	110.62
2	B	2252	PHE	CA-CB-CG	-5.60	108.20	113.80
1	A	1146	PHE	CA-CB-CG	-5.59	108.21	113.80
2	D	2336	ASN	CA-CB-CG	-5.58	107.02	112.60
1	C	1248	TYR	N-CA-C	-5.58	102.02	110.28
1	C	446	PHE	CA-CB-CG	-5.58	108.22	113.80
1	C	1106	PHE	CA-CB-CG	-5.57	108.23	113.80
1	A	446	PHE	CA-CB-CG	-5.57	108.23	113.80
1	A	403	HIS	N-CA-CB	5.57	119.76	110.85
1	C	929	ASP	CA-CB-CG	-5.57	107.03	112.60
1	A	1220	LYS	N-CA-C	-5.57	102.11	110.24
1	C	319	PHE	CA-CB-CG	-5.57	108.23	113.80
1	C	1220	LYS	N-CA-C	-5.56	102.12	110.24
1	A	929	ASP	CA-CB-CG	-5.56	107.04	112.60
2	B	2521	ASP	CA-CB-CG	-5.56	107.04	112.60
1	C	403	HIS	N-CA-CB	5.56	119.74	110.85
2	B	2433	PHE	CA-CB-CG	-5.56	108.24	113.80
1	C	1146	PHE	CA-CB-CG	-5.56	108.24	113.80
1	A	239	GLU	CB-CG-CD	-5.55	103.16	112.60
2	B	2386	ALA	CA-C-N	-5.55	117.41	122.80
2	B	2386	ALA	C-N-CA	-5.55	117.41	122.80
2	D	2526	VAL	CB-CA-C	-5.55	104.64	112.14
2	B	2195	TRP	N-CA-C	-5.55	105.23	111.28
1	A	1248	TYR	N-CA-C	-5.55	102.07	110.28
2	D	3361	PHE	CA-CB-CG	-5.54	108.25	113.80
1	A	32	SER	N-CA-C	-5.54	105.33	111.71
1	A	1441	ASN	CA-CB-CG	-5.54	107.06	112.60
2	B	3171	ASN	CB-CA-C	-5.54	104.72	111.82
1	C	239	GLU	CB-CG-CD	-5.54	103.18	112.60
1	C	1441	ASN	CA-CB-CG	-5.54	107.06	112.60
2	D	2195	TRP	N-CA-C	-5.54	105.24	111.28
1	A	774	ASP	CA-CB-CG	-5.54	107.06	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2417	PHE	CA-CB-CG	-5.54	108.26	113.80
1	A	1106	PHE	CA-CB-CG	-5.54	108.26	113.80
2	D	2521	ASP	CA-CB-CG	-5.54	107.06	112.60
1	A	331	ASN	CA-C-N	5.53	128.56	120.71
1	A	331	ASN	C-N-CA	5.53	128.56	120.71
1	C	331	ASN	CA-C-N	5.53	128.56	120.71
1	C	331	ASN	C-N-CA	5.53	128.56	120.71
2	D	2433	PHE	CA-CB-CG	-5.53	108.27	113.80
1	A	1227	ASP	CA-CB-CG	-5.53	107.07	112.60
2	B	2336	ASN	CA-CB-CG	-5.53	107.07	112.60
1	A	919	HIS	CA-CB-CG	-5.53	108.27	113.80
1	C	32	SER	N-CA-C	-5.53	105.36	111.71
1	C	471	PRO	N-CA-C	-5.52	106.33	113.57
1	A	35	PHE	CA-CB-CG	-5.52	108.28	113.80
2	D	3171	ASN	CB-CA-C	-5.52	104.75	111.82
1	C	35	PHE	CA-CB-CG	-5.52	108.28	113.80
2	D	2386	ALA	CA-C-N	-5.52	117.44	122.80
2	D	2386	ALA	C-N-CA	-5.52	117.44	122.80
2	B	2659	PHE	CA-CB-CG	-5.52	108.28	113.80
1	C	774	ASP	CA-CB-CG	-5.52	107.08	112.60
1	A	1391	LYS	N-CA-C	-5.52	105.35	111.36
1	C	1396	HIS	CB-CA-C	-5.52	104.47	111.70
1	C	259	ASN	CA-CB-CG	-5.51	107.09	112.60
2	D	2142	GLY	N-CA-C	-5.51	106.41	114.90
2	D	2659	PHE	CA-CB-CG	-5.51	108.29	113.80
1	C	935	ASN	N-CA-C	-5.51	105.17	111.07
1	C	919	HIS	CA-CB-CG	-5.50	108.30	113.80
1	C	1391	LYS	N-CA-C	-5.50	105.36	111.36
1	A	594	PHE	CA-CB-CG	-5.50	108.30	113.80
2	B	2492	GLU	CA-C-N	-5.50	113.25	122.92
2	B	2492	GLU	C-N-CA	-5.50	113.25	122.92
2	D	2121	PHE	CA-CB-CG	-5.49	108.31	113.80
1	C	1227	ASP	CA-CB-CG	-5.49	107.11	112.60
2	D	2417	PHE	CA-CB-CG	-5.49	108.31	113.80
1	A	453	ASP	N-CA-C	-5.48	105.85	112.54
1	C	594	PHE	CA-CB-CG	-5.48	108.32	113.80
1	A	259	ASN	CA-CB-CG	-5.48	107.12	112.60
2	B	2496	SER	CA-C-N	5.48	128.08	120.63
2	B	2496	SER	C-N-CA	5.48	128.08	120.63
1	A	471	PRO	N-CA-C	-5.48	106.39	113.57
1	A	504	GLY	N-CA-C	-5.48	106.16	112.73
2	B	1783	ASP	CA-CB-CG	-5.48	107.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1581	HIS	CA-C-N	-5.48	114.33	123.04
1	C	1581	HIS	C-N-CA	-5.48	114.33	123.04
2	B	2121	PHE	CA-CB-CG	-5.47	108.33	113.80
1	C	504	GLY	N-CA-C	-5.47	106.16	112.73
1	A	1396	HIS	CB-CA-C	-5.47	104.54	111.70
1	A	935	ASN	N-CA-C	-5.47	105.22	111.07
1	A	1581	HIS	CA-C-N	-5.47	114.34	123.04
1	A	1581	HIS	C-N-CA	-5.47	114.34	123.04
1	C	453	ASP	N-CA-C	-5.47	105.87	112.54
2	D	1783	ASP	CA-CB-CG	-5.47	107.13	112.60
2	B	2027	THR	CB-CA-C	-5.46	101.67	110.74
2	B	2142	GLY	N-CA-C	-5.46	106.49	114.90
1	A	1111	ASN	CA-CB-CG	-5.46	107.14	112.60
1	A	1518	SER	N-CA-C	-5.46	104.97	111.03
2	B	1839	PHE	CA-CB-CG	-5.46	108.34	113.80
2	B	2389	LEU	CA-C-N	-5.46	115.75	122.84
2	B	2389	LEU	C-N-CA	-5.46	115.75	122.84
1	C	1219	LEU	N-CA-C	-5.46	105.33	111.28
2	D	1839	PHE	CA-CB-CG	-5.46	108.34	113.80
1	A	553	GLU	N-CA-C	-5.45	106.58	113.23
1	C	1518	SER	N-CA-C	-5.45	104.99	111.03
2	D	2027	THR	CB-CA-C	-5.44	101.70	110.74
1	A	631	PHE	CA-CB-CG	-5.43	108.36	113.80
1	A	329	ASP	CA-C-N	5.43	130.12	122.46
1	A	329	ASP	C-N-CA	5.43	130.12	122.46
2	D	3313	ASN	CA-CB-CG	-5.43	107.17	112.60
2	B	2497	SER	CB-CA-C	-5.43	102.54	110.95
1	C	1111	ASN	CA-CB-CG	-5.43	107.17	112.60
1	C	631	PHE	CA-CB-CG	-5.42	108.38	113.80
1	C	960	PHE	CA-CB-CG	-5.42	108.38	113.80
2	D	2669	THR	CA-C-N	5.42	127.81	120.38
2	D	2669	THR	C-N-CA	5.42	127.81	120.38
1	A	1219	LEU	N-CA-C	-5.42	105.38	111.28
1	C	1568	VAL	CB-CA-C	-5.42	104.37	111.25
1	A	958	PRO	N-CA-C	-5.41	106.48	113.57
1	C	709	GLY	N-CA-C	-5.41	107.78	115.30
1	C	329	ASP	CA-C-N	5.41	130.09	122.46
1	C	329	ASP	C-N-CA	5.41	130.09	122.46
1	A	960	PHE	CA-CB-CG	-5.41	108.39	113.80
1	C	1333	LYS	N-CA-C	-5.41	105.38	111.28
1	A	1333	LYS	N-CA-C	-5.41	105.39	111.28
2	B	3087	LYS	CA-C-N	5.40	132.75	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3087	LYS	C-N-CA	5.40	132.75	121.94
2	D	2075	SER	CA-C-N	5.40	131.51	121.62
2	D	2075	SER	C-N-CA	5.40	131.51	121.62
1	C	553	GLU	N-CA-C	-5.40	106.64	113.23
1	A	709	GLY	N-CA-C	-5.40	107.80	115.30
1	C	419	SER	CA-C-N	5.40	127.95	120.29
1	C	419	SER	C-N-CA	5.40	127.95	120.29
1	C	875	PHE	CA-CB-CG	-5.40	108.40	113.80
1	A	1568	VAL	CB-CA-C	-5.39	104.40	111.25
1	A	149	PRO	N-CA-C	-5.39	107.12	113.86
2	B	2075	SER	CA-C-N	5.39	131.48	121.62
2	B	2075	SER	C-N-CA	5.39	131.48	121.62
1	C	1161	ILE	CA-C-N	-5.38	114.36	122.81
1	C	1161	ILE	C-N-CA	-5.38	114.36	122.81
2	D	3087	LYS	CA-C-N	5.38	132.70	121.94
2	D	3087	LYS	C-N-CA	5.38	132.70	121.94
1	A	419	SER	CA-C-N	5.38	127.93	120.29
1	A	419	SER	C-N-CA	5.38	127.93	120.29
2	D	2389	LEU	CA-C-N	-5.38	115.85	122.84
2	D	2389	LEU	C-N-CA	-5.38	115.85	122.84
1	A	1161	ILE	CA-C-N	-5.38	114.37	122.81
1	A	1161	ILE	C-N-CA	-5.38	114.37	122.81
1	C	780	ASP	CA-C-N	5.38	129.12	120.30
1	C	780	ASP	C-N-CA	5.38	129.12	120.30
1	C	149	PRO	N-CA-C	-5.37	107.14	113.86
2	B	2401	PHE	CA-CB-CG	-5.37	108.43	113.80
1	C	732	PHE	CA-CB-CG	-5.37	108.43	113.80
1	A	875	PHE	CA-CB-CG	-5.37	108.43	113.80
2	D	2401	PHE	CA-CB-CG	-5.37	108.43	113.80
1	A	1007	PHE	CA-CB-CG	-5.36	108.44	113.80
2	B	3313	ASN	CA-CB-CG	-5.36	107.24	112.60
1	A	780	ASP	CA-C-N	5.36	129.09	120.30
1	A	780	ASP	C-N-CA	5.36	129.09	120.30
2	D	1856	GLY	CA-C-N	5.36	128.46	120.31
2	D	1856	GLY	C-N-CA	5.36	128.46	120.31
1	A	304	PHE	CA-CB-CG	-5.36	108.44	113.80
1	C	958	PRO	N-CA-C	-5.36	106.56	113.57
2	B	1960	ILE	CB-CA-C	-5.35	105.12	111.97
1	A	1122	ASN	CB-CA-C	-5.35	108.83	115.89
2	B	2669	THR	CA-C-N	5.35	127.71	120.38
2	B	2669	THR	C-N-CA	5.35	127.71	120.38
1	C	304	PHE	CA-CB-CG	-5.35	108.45	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2385	PHE	CA-CB-CG	-5.35	108.45	113.80
1	A	732	PHE	CA-CB-CG	-5.35	108.45	113.80
1	C	1203	LYS	N-CA-C	-5.34	106.71	113.23
1	C	1007	PHE	CA-CB-CG	-5.34	108.46	113.80
1	A	1151	PHE	CA-CB-CG	-5.34	108.46	113.80
2	D	1960	ILE	CB-CA-C	-5.33	105.14	111.97
1	C	1122	ASN	CB-CA-C	-5.33	108.85	115.89
1	A	1243	HIS	CA-CB-CG	5.33	119.13	113.80
1	A	751	ASP	N-CA-C	-5.32	105.89	112.38
2	B	2533	ASN	N-CA-C	-5.32	105.02	112.25
2	D	2489	ASP	CB-CA-C	-5.31	109.42	117.07
1	A	1203	LYS	N-CA-C	-5.31	106.76	113.23
1	C	751	ASP	N-CA-C	-5.31	105.91	112.38
1	C	1243	HIS	CA-CB-CG	5.31	119.11	113.80
2	B	2459	PHE	N-CA-C	-5.30	100.39	109.24
2	B	2225	PHE	N-CA-C	-5.30	102.07	109.96
1	A	529	ASN	CA-CB-CG	-5.29	107.31	112.60
2	D	2459	PHE	N-CA-C	-5.29	100.41	109.24
2	D	2533	ASN	N-CA-C	-5.29	105.05	112.25
1	A	837	LEU	N-CA-CB	5.29	118.81	110.56
2	D	2846	ASP	CA-C-N	5.28	129.31	120.64
2	D	2846	ASP	C-N-CA	5.28	129.31	120.64
2	B	1856	GLY	CA-C-N	5.28	128.34	120.31
2	B	1856	GLY	C-N-CA	5.28	128.34	120.31
1	C	418	GLN	CA-C-N	5.28	128.37	120.87
1	C	418	GLN	C-N-CA	5.28	128.37	120.87
2	D	2225	PHE	N-CA-C	-5.28	102.09	109.96
1	C	672	PHE	CA-C-N	5.28	129.52	120.71
1	C	672	PHE	C-N-CA	5.28	129.52	120.71
1	C	1460	ARG	N-CA-CB	5.28	117.97	110.16
1	C	1151	PHE	CA-CB-CG	-5.28	108.53	113.80
1	A	418	GLN	CA-C-N	5.27	128.36	120.87
1	A	418	GLN	C-N-CA	5.27	128.36	120.87
1	A	1460	ARG	N-CA-CB	5.26	117.95	110.16
1	C	760	PHE	CA-CB-CG	-5.26	108.54	113.80
1	C	837	LEU	N-CA-CB	5.26	118.76	110.56
2	B	2385	PHE	CA-CB-CG	-5.26	108.54	113.80
2	D	2396	SER	CA-C-N	-5.25	113.70	122.21
2	D	2396	SER	C-N-CA	-5.25	113.70	122.21
2	D	2425	MET	CA-C-N	5.25	129.13	121.31
2	D	2425	MET	C-N-CA	5.25	129.13	121.31
1	A	283	ASN	CA-CB-CG	-5.24	107.36	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	672	PHE	CA-C-N	5.24	129.46	120.71
1	A	672	PHE	C-N-CA	5.24	129.46	120.71
1	A	760	PHE	CA-CB-CG	-5.24	108.56	113.80
1	C	529	ASN	CA-CB-CG	-5.24	107.36	112.60
1	C	1153	LYS	CA-C-O	-5.23	115.51	120.90
2	B	2396	SER	CA-C-N	-5.23	113.73	122.21
2	B	2396	SER	C-N-CA	-5.23	113.73	122.21
2	D	3158	ASN	CA-CB-CG	-5.23	107.37	112.60
2	B	1867	TYR	CA-CB-CG	-5.23	104.48	113.90
2	B	2425	MET	CA-C-N	5.23	129.10	121.31
2	B	2425	MET	C-N-CA	5.23	129.10	121.31
2	D	1867	TYR	CA-CB-CG	-5.23	104.49	113.90
1	C	1169	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	C	283	ASN	CA-CB-CG	-5.21	107.39	112.60
1	C	807	GLY	N-CA-C	-5.21	107.92	115.27
1	A	807	GLY	N-CA-C	-5.21	107.92	115.27
2	D	2325	ASN	CA-CB-CG	-5.21	107.39	112.60
1	A	168	PHE	CA-CB-CG	-5.21	108.59	113.80
1	A	255	ILE	CA-C-N	5.21	124.82	119.56
1	A	255	ILE	C-N-CA	5.21	124.82	119.56
1	C	255	ILE	CA-C-N	5.20	124.81	119.56
1	C	255	ILE	C-N-CA	5.20	124.81	119.56
2	B	2846	ASP	CA-C-N	5.20	129.16	120.64
2	B	2846	ASP	C-N-CA	5.20	129.16	120.64
1	A	1529	ASN	CA-CB-CG	-5.20	107.40	112.60
2	B	1748	HIS	CA-CB-CG	-5.20	108.61	113.80
1	A	295	ASP	CA-CB-CG	-5.19	107.41	112.60
1	C	295	ASP	CA-CB-CG	-5.19	107.41	112.60
2	D	2489	ASP	CA-C-O	5.19	120.95	117.94
1	C	866	ALA	N-CA-C	-5.19	105.62	111.28
2	B	2325	ASN	CA-CB-CG	-5.19	107.41	112.60
1	C	1529	ASN	CA-CB-CG	-5.19	107.41	112.60
2	D	2436	ASP	CA-CB-CG	-5.18	107.42	112.60
1	A	866	ALA	N-CA-C	-5.18	105.64	111.28
2	B	2494	HIS	CA-C-N	-5.18	114.93	122.44
2	B	2494	HIS	C-N-CA	-5.18	114.93	122.44
2	B	3385	ASN	CA-CB-CG	-5.18	107.42	112.60
1	A	1153	LYS	CA-C-O	-5.17	115.57	120.90
2	B	2858	TYR	N-CA-C	-5.17	105.54	111.07
1	A	1551	ALA	CA-C-N	-5.17	117.79	122.80
1	A	1551	ALA	C-N-CA	-5.17	117.79	122.80
1	C	1606	ASP	CA-C-N	5.17	129.11	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1606	ASP	C-N-CA	5.17	129.11	120.64
2	B	2436	ASP	CA-CB-CG	-5.16	107.44	112.60
1	C	210	HIS	CA-CB-CG	-5.16	108.64	113.80
1	A	1169	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	C	691	ILE	CB-CA-C	-5.16	105.17	112.14
2	B	2313	ASP	CB-CA-C	-5.16	102.78	110.88
1	C	1513	PHE	CA-CB-CG	-5.16	108.64	113.80
1	C	1551	ALA	CA-C-N	-5.15	117.80	122.80
1	C	1551	ALA	C-N-CA	-5.15	117.80	122.80
1	A	596	VAL	CB-CA-C	-5.15	105.38	111.97
1	C	168	PHE	CA-CB-CG	-5.15	108.65	113.80
2	B	2436	ASP	CA-C-N	5.14	128.74	120.30
2	B	2436	ASP	C-N-CA	5.14	128.74	120.30
2	D	1748	HIS	CA-CB-CG	-5.14	108.66	113.80
2	D	2313	ASP	CB-CA-C	-5.14	102.81	110.88
1	A	691	ILE	CB-CA-C	-5.14	105.21	112.14
1	A	1071	ASN	CA-CB-CG	-5.14	107.46	112.60
1	C	93	ASP	CA-CB-CG	-5.14	107.46	112.60
1	C	326	ASP	CA-CB-CG	-5.14	107.46	112.60
1	A	733	LEU	CA-C-N	-5.13	115.54	123.14
1	A	733	LEU	C-N-CA	-5.13	115.54	123.14
2	B	3354	PRO	O-C-N	5.13	123.67	121.31
1	C	733	LEU	CA-C-N	-5.13	115.55	123.14
1	C	733	LEU	C-N-CA	-5.13	115.55	123.14
1	A	1513	PHE	CA-CB-CG	-5.13	108.67	113.80
1	A	253	ASN	CA-CB-CG	-5.13	107.47	112.60
2	B	3158	ASN	CA-CB-CG	-5.13	107.47	112.60
1	C	596	VAL	CB-CA-C	-5.12	105.41	111.97
1	C	726	ASP	CA-C-N	-5.12	112.98	121.89
1	C	726	ASP	C-N-CA	-5.12	112.98	121.89
1	C	1393	SER	CA-C-N	5.12	127.65	120.28
1	C	1393	SER	C-N-CA	5.12	127.65	120.28
1	C	253	ASN	CA-CB-CG	-5.12	107.48	112.60
2	D	2406	THR	N-CA-C	-5.11	105.71	111.28
2	D	3385	ASN	CA-CB-CG	-5.11	107.49	112.60
1	A	326	ASP	CA-CB-CG	-5.11	107.49	112.60
1	A	210	HIS	CA-CB-CG	-5.11	108.69	113.80
1	C	1071	ASN	CA-CB-CG	-5.11	107.49	112.60
2	D	2723	ASP	CA-CB-CG	-5.11	107.49	112.60
2	D	2436	ASP	CA-C-N	5.11	128.67	120.30
2	D	2436	ASP	C-N-CA	5.11	128.67	120.30
2	D	3076	ASN	CA-CB-CG	-5.11	107.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1861	GLY	CA-C-N	5.10	128.53	120.47
2	B	1861	GLY	C-N-CA	5.10	128.53	120.47
1	C	965	ASP	CA-CB-CG	-5.10	107.50	112.60
2	B	1704	PHE	CA-CB-CG	-5.10	108.70	113.80
2	D	2127	LYS	CA-C-N	5.10	127.88	120.79
2	D	2127	LYS	C-N-CA	5.10	127.88	120.79
1	A	1393	SER	CA-C-N	5.10	127.62	120.28
1	A	1393	SER	C-N-CA	5.10	127.62	120.28
1	A	965	ASP	CA-CB-CG	-5.10	107.50	112.60
2	B	2723	ASP	CA-CB-CG	-5.10	107.50	112.60
2	D	1704	PHE	CA-CB-CG	-5.10	108.70	113.80
2	D	2204	PHE	CA-CB-CG	-5.10	108.70	113.80
1	C	737	ILE	CB-CA-C	-5.09	105.36	112.04
1	A	1606	ASP	CA-C-N	5.09	129.09	120.64
1	A	1606	ASP	C-N-CA	5.09	129.09	120.64
1	A	653	PRO	CA-C-N	5.09	127.60	120.28
1	A	653	PRO	C-N-CA	5.09	127.60	120.28
2	B	2230	THR	CB-CA-C	-5.09	102.89	110.88
2	D	1861	GLY	CA-C-N	5.09	128.51	120.47
2	D	1861	GLY	C-N-CA	5.09	128.51	120.47
2	D	1722	CYS	N-CA-CB	5.08	118.02	110.49
2	B	1692	ASP	CA-C-N	5.08	128.04	120.31
2	B	1692	ASP	C-N-CA	5.08	128.04	120.31
1	A	1239	ARG	CA-C-N	-5.08	114.15	122.33
1	A	1239	ARG	C-N-CA	-5.08	114.15	122.33
2	D	1692	ASP	CA-C-N	5.08	128.03	120.31
2	D	1692	ASP	C-N-CA	5.08	128.03	120.31
1	A	726	ASP	CA-C-N	-5.08	113.05	121.89
1	A	726	ASP	C-N-CA	-5.08	113.05	121.89
1	A	737	ILE	CB-CA-C	-5.08	105.39	112.04
2	B	2729	ILE	CB-CA-C	-5.08	105.28	112.14
1	C	653	PRO	CA-C-N	5.08	127.59	120.28
1	C	653	PRO	C-N-CA	5.08	127.59	120.28
2	B	3076	ASN	CA-CB-CG	-5.08	107.53	112.60
1	C	1239	ARG	CA-C-N	-5.08	114.16	122.33
1	C	1239	ARG	C-N-CA	-5.08	114.16	122.33
2	B	2204	PHE	CA-CB-CG	-5.07	108.73	113.80
1	C	980	PHE	CA-CB-CG	-5.07	108.73	113.80
2	B	2406	THR	N-CA-C	-5.07	105.75	111.28
2	D	2858	TYR	N-CA-C	-5.07	105.64	111.07
1	A	1599	PHE	CA-CB-CG	-5.07	108.73	113.80
1	A	93	ASP	CA-CB-CG	-5.07	107.53	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	308	ARG	CA-C-N	-5.07	115.67	123.07
1	C	308	ARG	C-N-CA	-5.07	115.67	123.07
1	A	1586	PHE	CA-CB-CG	-5.06	108.74	113.80
2	B	2225	PHE	CA-CB-CG	-5.06	108.74	113.80
1	A	308	ARG	CA-C-N	-5.06	115.69	123.07
1	A	308	ARG	C-N-CA	-5.06	115.69	123.07
1	A	1455	HIS	CA-CB-CG	-5.06	108.74	113.80
2	D	2798	PHE	CA-CB-CG	-5.06	108.74	113.80
2	B	2127	LYS	CA-C-N	5.05	127.82	120.79
2	B	2127	LYS	C-N-CA	5.05	127.82	120.79
2	D	1943	PHE	CA-CB-CG	-5.05	108.75	113.80
2	D	2729	ILE	CB-CA-C	-5.05	105.32	112.14
2	B	1722	CYS	N-CA-CB	5.05	117.97	110.49
1	C	1599	PHE	CA-CB-CG	-5.05	108.75	113.80
1	C	462	HIS	CA-C-N	-5.05	118.27	122.16
1	C	462	HIS	C-N-CA	-5.05	118.27	122.16
2	D	3260	ASN	CA-CB-CG	-5.05	107.55	112.60
1	A	1415	ASP	CA-CB-CG	-5.05	107.55	112.60
2	B	1943	PHE	CA-CB-CG	-5.05	108.75	113.80
2	B	2966	GLY	N-CA-C	-5.05	109.07	115.08
2	D	2230	THR	CB-CA-C	-5.04	102.96	110.88
1	A	876	HIS	CA-C-N	-5.04	118.28	122.16
1	A	876	HIS	C-N-CA	-5.04	118.28	122.16
1	A	342	PHE	CA-CB-CG	-5.04	108.76	113.80
1	C	1586	PHE	CA-CB-CG	-5.04	108.76	113.80
1	C	1550	PHE	CA-CB-CG	-5.03	108.77	113.80
2	D	2906	ILE	N-CA-C	-5.03	101.40	109.20
1	C	1455	HIS	CA-CB-CG	-5.03	108.77	113.80
2	D	2966	GLY	N-CA-C	-5.03	109.09	115.08
1	A	1282	ASN	CA-CB-CG	-5.03	107.57	112.60
1	C	342	PHE	CA-CB-CG	-5.03	108.77	113.80
2	D	1943	PHE	N-CA-C	-5.02	100.33	108.41
1	A	462	HIS	CA-C-N	-5.01	118.30	122.16
1	A	462	HIS	C-N-CA	-5.01	118.30	122.16
1	C	1415	ASP	CA-CB-CG	-5.01	107.59	112.60
1	A	980	PHE	CA-CB-CG	-5.01	108.79	113.80
2	B	3260	ASN	CA-CB-CG	-5.00	107.59	112.60
2	D	2128	CYS	CA-CB-SG	-5.00	102.89	114.40
2	D	2225	PHE	CA-CB-CG	-5.00	108.80	113.80
2	B	2128	CYS	CA-CB-SG	-5.00	102.90	114.40
2	B	3317	LYS	CA-C-N	-5.00	116.30	123.10
2	B	3317	LYS	C-N-CA	-5.00	116.30	123.10

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1150	GLY	Mainchain
2	B	2951	LEU	Peptide
2	B	3248	ARG	Sidechain
1	C	1150	GLY	Mainchain
2	D	2951	LEU	Peptide
2	D	3248	ARG	Sidechain

5.2 Too-close contacts [i](#)

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	13530	0	12792	2933	0
1	C	13530	0	12792	2963	0
2	B	14084	0	13309	2833	0
2	D	14084	0	13311	2814	0
3	A	16	0	0	1	0
3	B	16	0	0	3	0
3	C	16	0	0	1	0
3	D	16	0	0	3	0
All	All	55292	0	52204	11119	0

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 103.

All (11119) 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:D:2279:HIS:HE1	2:D:2280:TYR:CZ	1.08	1.67
2:D:2279:HIS:CE1	2:D:2280:TYR:CE2	1.80	1.65
1:C:724:GLN:HE22	1:C:828:LYS:CE	1.10	1.63
2:B:2279:HIS:CE1	2:B:2280:TYR:CE2	1.80	1.63
2:B:2279:HIS:HE1	2:B:2280:TYR:CZ	1.08	1.63
2:B:1714:PRO:CG	2:B:1922:TYR:HE2	1.12	1.62
2:D:1714:PRO:CG	2:D:1922:TYR:HE2	1.12	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1087:SER:HA	1:A:1097:LYS:CE	1.15	1.62
2:B:2538:ILE:CD1	2:B:2577:MET:CE	1.78	1.61
1:A:724:GLN:HE22	1:A:828:LYS:CE	1.09	1.60
2:D:1707:LEU:HD23	2:D:1709:PRO:CD	1.32	1.59
2:B:2195:TRP:HB2	2:D:1922:TYR:CD1	1.16	1.59
2:D:2538:ILE:CD1	2:D:2577:MET:CE	1.78	1.59
1:C:1189:ARG:CZ	2:D:2431:ARG:HA	1.24	1.57
1:C:1087:SER:HA	1:C:1097:LYS:CE	1.15	1.57
2:B:2101:TYR:CD1	2:D:1693:HIS:HB3	1.39	1.56
2:B:1707:LEU:HD23	2:B:1709:PRO:CD	1.32	1.55
1:C:560:ARG:HD3	1:C:609:THR:C	1.25	1.55
2:B:2195:TRP:CB	2:D:1922:TYR:HD1	1.13	1.54
1:C:1248:TYR:HA	1:C:1470:ARG:CD	1.38	1.52
1:A:560:ARG:HD3	1:A:609:THR:C	1.25	1.51
2:D:2538:ILE:HD11	2:D:2577:MET:CE	1.36	1.51
2:D:2697:PHE:CE1	2:D:2701:HIS:CE1	1.99	1.51
2:D:1985:SER:HB3	2:D:2050:TYR:CE2	1.46	1.50
2:B:2101:TYR:CD1	2:D:1693:HIS:CB	1.90	1.50
2:B:2195:TRP:HE3	2:D:1922:TYR:CE1	1.27	1.49
1:A:1087:SER:CB	1:A:1097:LYS:HD3	1.39	1.49
1:A:5:ARG:NE	1:A:89:LEU:HD21	1.18	1.49
1:C:1087:SER:CB	1:C:1097:LYS:HD3	1.40	1.48
2:B:2697:PHE:CE1	2:B:2701:HIS:CE1	1.99	1.48
2:B:2538:ILE:HD11	2:B:2577:MET:CE	1.36	1.48
2:B:1714:PRO:CG	2:B:1922:TYR:CE2	1.97	1.48
2:B:1985:SER:HB3	2:B:2050:TYR:CE2	1.47	1.47
1:A:676:LEU:HG	1:A:1365:ARG:CB	1.43	1.47
1:A:1257:ARG:HG3	1:A:1521:TYR:CE1	1.48	1.47
2:D:1714:PRO:CG	2:D:1922:TYR:CE2	1.97	1.47
2:B:1707:LEU:CD2	2:B:1709:PRO:HD3	1.41	1.46
1:C:676:LEU:HG	1:C:1365:ARG:CB	1.43	1.46
2:D:1707:LEU:CD2	2:D:1709:PRO:HD3	1.41	1.46
2:B:2577:MET:HG3	2:B:2698:TRP:NE1	1.27	1.45
2:B:2697:PHE:CE1	2:B:2701:HIS:HE1	1.32	1.43
1:C:5:ARG:NE	1:C:89:LEU:HD21	1.18	1.43
1:C:676:LEU:CG	1:C:1365:ARG:HB3	1.45	1.43
2:B:2279:HIS:CE1	2:B:2280:TYR:CZ	1.93	1.42
1:A:676:LEU:CG	1:A:1365:ARG:HB3	1.46	1.42
1:C:524:PRO:CD	1:C:524:PRO:N	1.70	1.42
2:B:2195:TRP:CA	2:D:1921:PRO:HB2	1.47	1.41
1:A:1248:TYR:HA	1:A:1470:ARG:CD	1.39	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2697:PHE:CE1	2:D:2701:HIS:HE1	1.32	1.41
2:D:2279:HIS:CE1	2:D:2280:TYR:CZ	1.93	1.41
1:A:1293:HIS:HD2	1:A:1309:CYS:SG	1.44	1.40
2:D:2577:MET:HG3	2:D:2698:TRP:NE1	1.27	1.40
1:A:1248:TYR:CA	1:A:1470:ARG:CD	1.93	1.39
1:C:1293:HIS:HD2	1:C:1309:CYS:SG	1.44	1.39
2:B:2101:TYR:CG	2:D:1693:HIS:HB2	1.57	1.39
1:A:1662:THR:O	2:B:1893:ARG:CD	1.70	1.39
1:C:1079:GLU:HB2	2:D:2456:GLU:CD	1.46	1.39
1:A:1087:SER:HA	1:A:1097:LYS:CD	1.53	1.38
2:B:3316:PRO:HD2	2:D:3350:LYS:NZ	1.39	1.38
2:B:2279:HIS:CE1	2:B:2280:TYR:CD2	2.12	1.36
1:C:1257:ARG:HG3	1:C:1521:TYR:CE1	1.59	1.36
2:D:1909:MET:HE2	2:D:1938:PHE:CE2	1.58	1.36
2:B:1909:MET:HE2	2:B:1938:PHE:CE2	1.58	1.35
2:D:2279:HIS:CE1	2:D:2280:TYR:CD2	2.12	1.35
2:B:2279:HIS:NE2	2:B:2280:TYR:CE2	1.95	1.35
1:A:524:PRO:CD	1:A:524:PRO:N	1.70	1.34
1:C:1087:SER:HA	1:C:1097:LYS:CD	1.53	1.34
2:D:2279:HIS:NE2	2:D:2280:TYR:CE2	1.95	1.34
1:A:1618:LEU:CD2	2:B:1906:VAL:HG11	1.56	1.33
1:A:724:GLN:NE2	1:A:828:LYS:HE2	1.40	1.32
1:A:1088:ALA:N	1:A:1097:LYS:HZ3	1.25	1.32
2:B:1707:LEU:CD2	2:B:1709:PRO:CD	2.00	1.32
1:C:724:GLN:NE2	1:C:828:LYS:HE2	1.40	1.32
2:B:2195:TRP:CE3	2:D:1922:TYR:CE1	2.16	1.31
2:B:2494:HIS:NE2	2:B:3125:LYS:HG2	1.43	1.31
1:C:89:LEU:HD12	1:C:211:SER:OG	1.24	1.31
1:C:1248:TYR:CA	1:C:1470:ARG:CD	1.93	1.31
1:C:1293:HIS:CD2	1:C:1309:CYS:SG	2.22	1.31
1:A:1293:HIS:CD2	1:A:1309:CYS:SG	2.22	1.31
2:B:2194:VAL:C	2:D:1921:PRO:CB	2.05	1.29
2:B:3316:PRO:CD	2:D:3350:LYS:HZ2	1.45	1.29
1:C:1088:ALA:N	1:C:1097:LYS:HZ3	1.27	1.29
1:A:5:ARG:CZ	1:A:89:LEU:HD21	1.62	1.29
1:A:1087:SER:CA	1:A:1097:LYS:CE	2.10	1.29
2:B:3316:PRO:CD	2:D:3350:LYS:NZ	1.93	1.29
2:D:2279:HIS:HE1	2:D:2280:TYR:CE1	1.50	1.29
1:A:89:LEU:HD12	1:A:211:SER:OG	1.25	1.28
1:C:1087:SER:CA	1:C:1097:LYS:CE	2.10	1.28
1:A:1515:TYR:CE1	1:A:1519:PHE:CB	2.16	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5:ARG:CZ	1:C:89:LEU:HD21	1.62	1.28
2:D:1707:LEU:CD2	2:D:1709:PRO:CD	2.00	1.28
2:B:1757:TRP:CE3	2:B:1873:LEU:HD11	1.67	1.27
2:D:1757:TRP:CE3	2:D:1873:LEU:HD11	1.67	1.27
1:A:1161:ILE:HD13	1:A:1198:LYS:CE	1.63	1.27
2:B:2279:HIS:HE1	2:B:2280:TYR:CE1	1.50	1.27
2:B:1874:PHE:CZ	2:B:1878:HIS:CE1	2.23	1.27
1:C:1515:TYR:CE1	1:C:1519:PHE:CB	2.17	1.27
2:D:1714:PRO:CB	2:D:1922:TYR:HE2	1.46	1.27
1:A:724:GLN:NE2	1:A:828:LYS:CE	1.95	1.27
1:C:1161:ILE:HD13	1:C:1198:LYS:CE	1.63	1.27
2:B:1714:PRO:CB	2:B:1922:TYR:HE2	1.46	1.26
2:B:2195:TRP:CD1	2:D:1695:SER:HB2	1.69	1.26
2:B:2195:TRP:HD1	2:D:1695:SER:CB	1.47	1.26
1:A:1249:GLN:O	1:A:1470:ARG:NH2	1.68	1.26
2:D:1874:PHE:CZ	2:D:1878:HIS:CE1	2.23	1.26
2:B:1747:LYS:HZ1	2:D:2094:ARG:CD	1.49	1.25
1:C:5:ARG:NE	1:C:89:LEU:CD2	2.00	1.25
2:B:2101:TYR:CE2	2:D:1694:SER:HA	1.70	1.25
2:D:1890:SER:O	2:D:1893:ARG:HG2	1.34	1.25
1:C:1249:GLN:O	1:C:1470:ARG:NH2	1.67	1.25
2:B:3347:ALA:HB2	2:D:3315:PRO:CB	1.66	1.24
1:A:5:ARG:NE	1:A:89:LEU:CD2	1.99	1.24
1:C:560:ARG:CD	1:C:609:THR:HB	1.66	1.24
1:C:5:ARG:CD	1:C:89:LEU:HD21	1.68	1.24
2:B:1715:ALA:HA	2:B:1719:ARG:NH2	1.51	1.23
2:B:1693:HIS:CD2	2:D:2101:TYR:HB3	1.36	1.23
2:B:1714:PRO:CB	2:B:1922:TYR:CE2	2.21	1.23
1:C:1248:TYR:CA	1:C:1470:ARG:HD3	1.57	1.23
1:A:5:ARG:CD	1:A:89:LEU:HD21	1.68	1.23
2:B:2195:TRP:CD1	2:D:1695:SER:CB	2.22	1.22
2:D:1715:ALA:HA	2:D:1719:ARG:NH2	1.51	1.22
1:A:560:ARG:CD	1:A:609:THR:HB	1.68	1.22
1:A:1515:TYR:CE2	1:A:1521:TYR:HB2	1.75	1.22
2:B:1890:SER:O	2:B:1893:ARG:HG2	1.34	1.22
1:C:1251:GLU:O	1:C:1516:GLN:HB3	1.32	1.21
1:A:1251:GLU:O	1:A:1516:GLN:HB3	1.32	1.21
2:B:1840:GLU:OE2	2:B:1844:GLU:HB2	1.41	1.21
2:B:3316:PRO:HB3	2:B:3392:HIS:HB3	1.21	1.21
2:D:1714:PRO:CB	2:D:1922:TYR:CE2	2.21	1.21
2:B:1693:HIS:CD2	2:D:2101:TYR:CB	2.15	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:560:ARG:HH21	1:C:617:MET:CG	1.53	1.20
1:C:1515:TYR:CE2	1:C:1521:TYR:HB2	1.75	1.20
1:A:560:ARG:HH21	1:A:617:MET:CG	1.53	1.20
1:A:1087:SER:CA	1:A:1097:LYS:HD3	1.71	1.20
2:B:2697:PHE:CZ	2:B:2701:HIS:CE1	2.29	1.20
2:D:2577:MET:HE2	2:D:2698:TRP:CZ2	1.77	1.20
2:D:2697:PHE:CZ	2:D:2701:HIS:CE1	2.29	1.20
2:B:2494:HIS:HE1	2:B:3125:LYS:NZ	1.36	1.20
1:C:1515:TYR:OH	1:C:1521:TYR:CD2	1.95	1.20
2:B:2494:HIS:CB	2:B:3124:VAL:CG1	2.21	1.19
1:C:629:PHE:CZ	1:C:633:HIS:CE1	2.30	1.19
2:B:2577:MET:HE2	2:B:2698:TRP:CZ2	1.77	1.19
1:C:1087:SER:CA	1:C:1097:LYS:HD3	1.71	1.19
1:A:895:VAL:HG23	1:A:898:MET:HE3	1.25	1.19
2:B:3054:LEU:HB2	2:B:3074:LEU:HD23	1.23	1.19
1:C:724:GLN:NE2	1:C:828:LYS:CE	1.95	1.19
2:D:2096:ILE:HG12	2:D:2185:LEU:HD12	1.20	1.19
2:B:2101:TYR:CB	2:D:1693:HIS:HB2	1.72	1.19
1:C:1189:ARG:CZ	2:D:2431:ARG:CA	2.19	1.19
2:D:2384:VAL:HG13	2:D:2437:ILE:HG23	1.20	1.19
1:A:629:PHE:CZ	1:A:633:HIS:CE1	2.30	1.18
2:B:2194:VAL:C	2:D:1921:PRO:HB3	1.67	1.18
1:C:1189:ARG:HD3	2:D:2430:ASN:O	1.39	1.18
1:C:629:PHE:CE1	1:C:633:HIS:HE1	1.62	1.18
2:D:2577:MET:CG	2:D:2698:TRP:HE1	1.57	1.18
2:D:3205:VAL:HG23	2:D:3288:PRO:HG2	1.25	1.18
2:B:2494:HIS:HB2	2:B:3124:VAL:CG1	1.74	1.17
2:B:2194:VAL:O	2:D:1921:PRO:CB	1.93	1.17
1:C:1233:SER:CB	2:D:2320:SER:HB2	1.74	1.17
2:B:3318:VAL:HG12	2:B:3320:VAL:HG22	1.26	1.17
1:A:1087:SER:C	1:A:1097:LYS:NZ	2.03	1.17
1:A:629:PHE:CE1	1:A:633:HIS:HE1	1.62	1.16
1:A:1251:GLU:O	1:A:1516:GLN:CB	1.94	1.16
1:C:1251:GLU:O	1:C:1516:GLN:CB	1.93	1.16
2:B:1714:PRO:HG2	2:B:1922:TYR:CE2	1.68	1.16
2:B:2577:MET:CG	2:B:2698:TRP:HE1	1.57	1.16
2:D:1714:PRO:HG2	2:D:1922:TYR:CE2	1.68	1.16
2:D:1840:GLU:OE2	2:D:1844:GLU:HB2	1.41	1.16
2:D:2279:HIS:HB3	2:D:2423:LYS:HE2	1.23	1.16
1:C:1078:ARG:CB	2:D:2457:PRO:HD3	1.76	1.16
1:C:1153:LYS:HG3	1:C:1176:LEU:HD21	1.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1233:SER:HB2	2:D:2320:SER:HB2	1.24	1.15
1:C:163:LEU:HD12	1:C:294:LEU:HD11	1.27	1.15
1:C:1087:SER:C	1:C:1097:LYS:NZ	2.04	1.15
2:D:2794:THR:HG23	2:D:2847:ILE:HG13	1.16	1.15
1:A:1618:LEU:HD21	2:B:1906:VAL:CG1	1.75	1.15
1:A:1515:TYR:CZ	1:A:1521:TYR:HB2	1.80	1.15
2:B:2494:HIS:CB	2:B:3124:VAL:HG13	1.77	1.15
1:A:58:CYS:SG	1:A:60:HIS:CE1	2.40	1.15
1:A:89:LEU:CD1	1:A:211:SER:OG	1.95	1.15
1:A:8:VAL:HG13	1:A:104:LEU:HD12	1.30	1.14
1:A:1515:TYR:OH	1:A:1521:TYR:CD2	2.00	1.14
2:B:2091:LEU:HD11	2:B:2171:PRO:HG2	1.27	1.14
2:B:2494:HIS:HB2	2:B:3124:VAL:HG11	1.17	1.14
1:C:1087:SER:CA	1:C:1097:LYS:CD	2.23	1.14
1:C:1515:TYR:CZ	1:C:1521:TYR:HB2	1.81	1.14
2:D:2124:LEU:HD22	2:D:2125:PRO:HA	1.16	1.14
1:C:1233:SER:HB2	2:D:2320:SER:CB	1.77	1.14
1:A:1274:ARG:HD3	1:A:1365:ARG:HH22	1.05	1.14
2:B:2195:TRP:N	2:D:1921:PRO:HB2	1.58	1.14
2:B:2384:VAL:HG13	2:B:2437:ILE:HG23	1.20	1.14
2:B:2538:ILE:HD12	2:B:2577:MET:SD	0.57	1.14
1:C:89:LEU:CD1	1:C:211:SER:OG	1.95	1.14
2:D:2091:LEU:HD11	2:D:2171:PRO:HG2	1.27	1.14
2:D:2140:ILE:HD13	2:D:2145:THR:HB	1.15	1.14
1:A:560:ARG:CD	1:A:609:THR:C	2.20	1.14
1:A:560:ARG:HH21	1:A:617:MET:HG2	1.00	1.14
2:D:1874:PHE:CE2	2:D:1878:HIS:HE1	1.66	1.14
1:A:74:VAL:HG21	1:A:273:LEU:HD23	1.27	1.14
2:B:2140:ILE:HD13	2:B:2145:THR:HB	1.15	1.14
1:C:58:CYS:SG	1:C:60:HIS:CE1	2.40	1.14
2:D:3316:PRO:HB3	2:D:3392:HIS:HB3	1.21	1.14
1:A:1248:TYR:CA	1:A:1470:ARG:HD3	1.58	1.13
1:C:74:VAL:HG21	1:C:273:LEU:HD23	1.27	1.13
1:C:1353:PRO:HG2	1:C:1356:ILE:HG12	1.28	1.13
2:D:3054:LEU:HB2	2:D:3074:LEU:HD23	1.23	1.13
1:A:1087:SER:CA	1:A:1097:LYS:CD	2.23	1.13
2:D:1757:TRP:CZ3	2:D:1873:LEU:HD11	1.82	1.13
1:A:163:LEU:HD12	1:A:294:LEU:HD11	1.27	1.13
1:A:498:VAL:HG13	1:A:511:ILE:HD11	1.20	1.13
2:B:2506:LYS:HG2	2:B:2769:ASP:HB3	1.16	1.13
1:C:498:VAL:HG13	1:C:511:ILE:HD11	1.20	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2538:ILE:CD1	2:D:2577:MET:SD	1.21	1.13
2:B:1693:HIS:HD2	2:D:2101:TYR:CB	1.54	1.13
1:C:8:VAL:HG13	1:C:104:LEU:HD12	1.30	1.13
2:D:3318:VAL:HG12	2:D:3320:VAL:HG22	1.26	1.13
2:D:1973:VAL:HG23	2:D:2026:ILE:HG13	1.30	1.12
2:B:1874:PHE:CE2	2:B:1878:HIS:HE1	1.66	1.12
2:D:2538:ILE:HD12	2:D:2577:MET:SD	0.56	1.12
1:A:1086:LEU:HD22	1:A:1090:ILE:HD13	1.26	1.12
1:A:1153:LYS:HG3	1:A:1176:LEU:HD21	1.21	1.12
1:A:1248:TYR:CA	1:A:1470:ARG:HD2	1.65	1.12
2:B:1922:TYR:CD1	2:D:2195:TRP:HB2	1.84	1.12
2:B:1973:VAL:HG23	2:B:2026:ILE:HG13	1.29	1.12
1:C:1248:TYR:CB	1:C:1470:ARG:HD2	1.79	1.12
1:A:1257:ARG:HB2	1:A:1521:TYR:CD1	1.84	1.12
1:C:560:ARG:CD	1:C:609:THR:C	2.20	1.12
1:C:1248:TYR:CA	1:C:1470:ARG:HD2	1.65	1.12
1:A:1078:ARG:HB3	2:B:2457:PRO:HD3	1.27	1.12
1:A:1248:TYR:CB	1:A:1470:ARG:HD2	1.80	1.12
1:A:486:ILE:HD11	1:A:688:PRO:HG2	1.26	1.11
1:C:895:VAL:HG23	1:C:898:MET:HE3	1.25	1.11
1:C:1079:GLU:OE1	2:D:2456:GLU:OE2	1.68	1.11
1:C:1662:THR:O	2:D:1893:ARG:HD3	1.46	1.11
2:D:2506:LYS:HG2	2:D:2769:ASP:HB3	1.16	1.11
1:A:1468:LEU:HD23	1:A:1533:ILE:HG23	1.26	1.11
2:B:1689:MET:HE3	2:B:1698:PHE:HD1	1.15	1.11
2:B:2195:TRP:CB	2:D:1922:TYR:HA	1.79	1.11
2:B:3347:ALA:HB2	2:D:3315:PRO:HB3	1.11	1.11
1:C:769:MET:HA	1:C:769:MET:HE3	1.32	1.11
2:D:1874:PHE:CE2	2:D:1878:HIS:CE1	2.39	1.11
1:A:1656:HIS:HA	2:B:1898:SER:HB2	1.24	1.11
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD11	1.83	1.11
1:C:1189:ARG:NH2	2:D:2431:ARG:HA	1.64	1.11
2:D:3149:VAL:HG23	2:D:3151:ASN:H	1.02	1.11
2:B:1909:MET:CE	2:B:1938:PHE:CE2	2.33	1.11
2:B:2494:HIS:CE1	2:B:3125:LYS:NZ	2.19	1.11
2:D:2912:ILE:HG22	2:D:2995:PRO:HB2	1.11	1.11
2:B:2096:ILE:HG12	2:B:2185:LEU:HD12	1.20	1.10
2:D:2254:VAL:HG12	2:D:2433:PHE:HD1	1.16	1.10
2:D:2714:LEU:HD23	2:D:2778:ILE:HG23	1.25	1.10
2:B:1988:VAL:HG12	2:B:2047:ILE:HG12	1.25	1.10
2:B:2279:HIS:HB3	2:B:2423:LYS:HE2	1.23	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2538:ILE:CD1	2:B:2577:MET:SD	1.21	1.10
1:C:560:ARG:HH21	1:C:617:MET:HG2	1.00	1.10
1:A:95:THR:HA	1:A:155:LEU:HD23	1.23	1.10
1:A:405:PRO:HG3	1:A:657:HIS:CB	1.81	1.10
1:A:896:HIS:CE1	1:A:1033:LEU:HD21	1.86	1.10
1:A:1515:TYR:CD1	1:A:1519:PHE:CD2	2.39	1.10
2:B:2714:LEU:HD23	2:B:2778:ILE:HG23	1.25	1.10
2:D:1909:MET:CE	2:D:1938:PHE:CE2	2.33	1.10
1:A:1515:TYR:CE1	1:A:1519:PHE:HB3	1.83	1.10
2:B:2697:PHE:CD1	2:B:2701:HIS:HE1	1.70	1.10
1:C:1515:TYR:CD1	1:C:1519:PHE:CD2	2.39	1.10
2:D:1689:MET:HE3	2:D:1698:PHE:HD1	1.15	1.10
1:A:1087:SER:C	1:A:1097:LYS:HZ3	1.58	1.10
2:B:2176:THR:HG22	2:B:2236:LEU:HD12	1.24	1.10
2:B:2627:THR:HG22	2:B:2683:TYR:HB2	1.27	1.10
1:C:1086:LEU:HD22	1:C:1090:ILE:HD13	1.26	1.10
2:D:2176:THR:HG22	2:D:2236:LEU:HD12	1.24	1.10
1:A:498:VAL:CG1	1:A:511:ILE:HD11	1.81	1.09
1:A:1353:PRO:HG2	1:A:1356:ILE:HG12	1.28	1.09
2:B:2124:LEU:HD22	2:B:2125:PRO:HA	1.16	1.09
2:B:3149:VAL:HG23	2:B:3151:ASN:H	1.02	1.09
1:C:325:PRO:HD3	1:C:377:TYR:HA	1.33	1.09
1:C:896:HIS:HE1	1:C:1033:LEU:HD21	0.94	1.09
2:D:1988:VAL:HG12	2:D:2047:ILE:HG12	1.25	1.09
1:A:1257:ARG:CG	1:A:1521:TYR:CE1	2.34	1.09
1:A:1549:VAL:HG13	1:A:1607:ILE:HG13	1.35	1.09
2:B:2472:LEU:HD22	2:B:2473:PRO:HD2	1.33	1.09
1:C:486:ILE:HD11	1:C:688:PRO:HG2	1.26	1.09
1:C:498:VAL:CG1	1:C:511:ILE:HD11	1.81	1.09
2:D:2697:PHE:CD1	2:D:2701:HIS:HE1	1.70	1.09
1:C:405:PRO:HG3	1:C:657:HIS:CB	1.81	1.09
1:A:179:HIS:HD1	1:A:213:VAL:HG11	1.14	1.09
1:A:1618:LEU:CG	2:B:1906:VAL:HG11	1.83	1.09
2:B:2254:VAL:HG12	2:B:2433:PHE:HD1	1.16	1.09
2:B:2437:ILE:HD11	2:B:2441:LEU:HD21	1.33	1.09
2:B:2974:HIS:CE1	3:B:9008:CUO:O2	2.06	1.09
1:C:183:HIS:HD1	1:C:194:MET:HG2	1.12	1.09
1:C:1549:VAL:HG13	1:C:1607:ILE:HG13	1.35	1.09
1:A:325:PRO:HD3	1:A:377:TYR:HA	1.33	1.08
1:A:724:GLN:HE22	1:A:828:LYS:HE3	1.18	1.08
1:A:1409:GLU:CD	1:A:1544:LYS:HE2	1.77	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:95:THR:HA	1:C:155:LEU:HD23	1.22	1.08
1:C:179:HIS:HD1	1:C:213:VAL:HG11	1.14	1.08
1:C:1087:SER:HA	1:C:1097:LYS:HE2	1.11	1.08
1:C:1409:GLU:CD	1:C:1544:LYS:HE2	1.77	1.08
2:B:2794:THR:HG23	2:B:2847:ILE:HG13	1.16	1.08
1:C:579:PHE:HE1	1:C:583:LEU:HD12	1.15	1.08
1:C:1078:ARG:HB2	2:D:2457:PRO:HD3	1.33	1.08
2:B:1985:SER:CB	2:B:2050:TYR:CE2	2.36	1.08
1:C:896:HIS:CE1	1:C:1033:LEU:HD21	1.86	1.08
2:B:2195:TRP:HA	2:D:1921:PRO:CB	1.84	1.08
2:B:2912:ILE:HG22	2:B:2995:PRO:HB2	1.11	1.08
2:D:2472:LEU:HD22	2:D:2473:PRO:HD2	1.33	1.08
1:A:1662:THR:O	2:B:1893:ARG:HD3	0.91	1.08
2:B:1865:LEU:HD22	2:B:2013:GLU:HG2	1.31	1.08
2:B:1874:PHE:CE2	2:B:1878:HIS:CE1	2.39	1.08
1:C:560:ARG:HD3	1:C:609:THR:O	1.54	1.08
2:D:1865:LEU:HD22	2:D:2013:GLU:HG2	1.31	1.08
1:A:560:ARG:HD3	1:A:609:THR:O	1.54	1.07
1:A:1087:SER:HA	1:A:1097:LYS:HE2	1.11	1.07
1:C:560:ARG:HD2	1:C:609:THR:HB	1.14	1.07
1:C:782:THR:HG22	1:C:786:LYS:HE2	1.33	1.07
1:C:1274:ARG:HD3	1:C:1365:ARG:HH22	1.05	1.07
1:A:560:ARG:NH2	1:A:617:MET:CG	2.17	1.07
1:C:1066:PRO:HB2	1:C:1069:VAL:HG22	1.36	1.07
2:B:2195:TRP:HA	2:D:1921:PRO:HB2	1.11	1.07
2:B:3205:VAL:HG23	2:B:3288:PRO:HG2	1.25	1.07
2:B:3243:PRO:HG2	2:D:3354:PRO:HB3	1.30	1.07
2:D:2100:LYS:HA	2:D:2204:PHE:HE1	1.18	1.07
1:A:549:ILE:HG13	1:A:556:PRO:HG3	1.37	1.07
2:B:1747:LYS:HZ1	2:D:2094:ARG:HD2	1.14	1.07
2:B:2526:VAL:HG21	2:B:2581:LEU:HD23	1.35	1.07
1:C:1468:LEU:HD23	1:C:1533:ILE:HG23	1.26	1.07
1:C:1549:VAL:H	1:C:1608:THR:HG22	1.16	1.07
2:D:2627:THR:HG22	2:D:2683:TYR:HB2	1.27	1.07
1:A:769:MET:HA	1:A:769:MET:HE3	1.32	1.07
1:A:1157:VAL:HG22	1:A:1216:VAL:HG12	1.37	1.07
1:A:1515:TYR:CE1	1:A:1519:PHE:CG	2.43	1.07
1:C:943:HIS:HD2	1:C:945:LYS:O	1.37	1.07
1:C:1189:ARG:NH2	2:D:2431:ARG:CA	2.18	1.07
1:A:466:ALA:HB2	1:A:767:LYS:HD3	1.08	1.06
1:A:560:ARG:HD2	1:A:609:THR:HB	1.15	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:895:VAL:HG13	1:A:901:PHE:HA	1.34	1.06
1:A:1476:TYR:CE2	1:A:1477:ARG:HB2	1.90	1.06
1:C:452:VAL:HG11	1:C:676:LEU:HD12	1.08	1.06
1:C:464:LEU:HD22	1:C:465:PRO:HA	1.35	1.06
1:C:1189:ARG:HH22	2:D:2432:LEU:N	1.53	1.06
1:C:1463:ALA:HA	1:C:1466:GLN:HE21	1.14	1.06
2:D:1806:ILE:HG12	2:D:1854:VAL:HA	1.37	1.06
2:D:1985:SER:CB	2:D:2050:TYR:CE2	2.36	1.06
1:A:486:ILE:HB	1:A:662:LEU:HD21	1.33	1.06
1:A:943:HIS:HD2	1:A:945:LYS:O	1.37	1.06
2:B:2101:TYR:HB3	2:D:1693:HIS:HB2	1.36	1.06
2:B:3308:ILE:HA	2:B:3329:MET:HB2	1.37	1.06
1:C:1239:ARG:CZ	1:C:1242:HIS:CE1	2.39	1.06
2:D:2538:ILE:CG1	2:D:2577:MET:SD	2.43	1.06
1:A:1226:LYS:HE2	1:A:1226:LYS:HA	1.38	1.06
1:A:1463:ALA:HA	1:A:1466:GLN:HE21	1.14	1.06
2:B:1806:ILE:HG12	2:B:1854:VAL:HA	1.37	1.06
1:C:486:ILE:HB	1:C:662:LEU:HD21	1.33	1.06
1:C:560:ARG:NH2	1:C:617:MET:CG	2.17	1.06
1:C:1079:GLU:HB2	2:D:2456:GLU:OE2	1.54	1.06
1:C:1515:TYR:CE1	1:C:1519:PHE:HB3	1.84	1.06
2:B:2100:LYS:HA	2:B:2204:PHE:HE1	1.18	1.06
2:B:2195:TRP:CD1	2:D:1695:SER:HG	1.74	1.06
1:C:405:PRO:HG3	1:C:657:HIS:HB3	1.07	1.06
1:C:1515:TYR:CE1	1:C:1519:PHE:CG	2.43	1.06
2:D:1991:GLN:HG2	2:D:2001:ASP:HA	1.12	1.06
1:A:464:LEU:HD22	1:A:465:PRO:HA	1.35	1.05
1:A:896:HIS:HE1	1:A:1033:LEU:HD21	0.94	1.05
1:A:1249:GLN:HG3	1:A:1476:TYR:CD1	1.91	1.05
1:A:1515:TYR:CD1	1:A:1519:PHE:CG	2.44	1.05
2:B:2494:HIS:CG	2:B:3124:VAL:HG13	1.91	1.05
1:C:1226:LYS:HE2	1:C:1226:LYS:HA	1.38	1.05
1:C:1233:SER:CA	2:D:2320:SER:HB2	1.84	1.05
1:A:1618:LEU:HD21	2:B:1906:VAL:HG11	1.08	1.05
2:B:2101:TYR:CD1	2:D:1693:HIS:HB2	1.68	1.05
2:B:2577:MET:CG	2:B:2698:TRP:NE1	2.18	1.05
1:C:629:PHE:CE1	1:C:633:HIS:CE1	2.43	1.05
2:D:1847:HIS:HD1	2:D:1881:THR:HG21	1.15	1.05
1:A:579:PHE:HE1	1:A:583:LEU:HD12	1.15	1.05
1:C:1476:TYR:CE2	1:C:1477:ARG:HB2	1.90	1.05
2:D:2437:ILE:HD11	2:D:2441:LEU:HD21	1.33	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3308:ILE:HA	2:D:3329:MET:HB2	1.37	1.05
1:A:183:HIS:HD1	1:A:194:MET:HG2	1.12	1.05
1:A:1549:VAL:H	1:A:1608:THR:HG22	1.16	1.05
2:B:1847:HIS:HD1	2:B:1881:THR:HG21	1.15	1.05
2:B:2194:VAL:HG12	2:B:2196:ARG:H	1.21	1.05
2:B:2538:ILE:CG1	2:B:2577:MET:SD	2.43	1.05
1:C:1515:TYR:CD1	1:C:1519:PHE:CG	2.44	1.05
2:D:2526:VAL:HG21	2:D:2581:LEU:HD23	1.34	1.05
2:D:2974:HIS:CE1	3:D:9008:CUO:O2	2.09	1.05
2:B:1991:GLN:HG2	2:B:2001:ASP:HA	1.12	1.05
1:C:1249:GLN:HG3	1:C:1476:TYR:CD1	1.91	1.05
1:A:1239:ARG:CZ	1:A:1242:HIS:CE1	2.39	1.04
2:B:2390:LEU:HB2	2:B:2429:TYR:HD2	1.20	1.04
1:C:943:HIS:CD2	1:C:945:LYS:O	2.10	1.04
1:A:412:PRO:CG	1:A:654:TYR:HB2	1.87	1.04
1:C:148:LYS:HD2	1:C:150:GLY:O	1.56	1.04
2:D:2387:GLY:HA3	2:D:2432:LEU:HD21	1.34	1.04
1:A:1515:TYR:OH	1:A:1521:TYR:HB2	1.55	1.04
2:B:1922:TYR:HD1	2:D:2195:TRP:HB2	1.17	1.04
2:B:2195:TRP:HB3	2:D:1922:TYR:HA	1.34	1.04
2:B:2387:GLY:HA3	2:B:2432:LEU:HD21	1.34	1.04
1:C:724:GLN:HE22	1:C:828:LYS:HE3	1.18	1.04
1:C:895:VAL:HG13	1:C:901:PHE:HA	1.34	1.04
1:A:629:PHE:CE1	1:A:633:HIS:CE1	2.44	1.04
1:A:782:THR:HG22	1:A:786:LYS:HE2	1.33	1.04
1:A:810:LEU:HD11	1:A:814:LEU:HD22	1.40	1.04
2:B:2094:ARG:HG2	2:D:1924:LEU:HB3	1.39	1.04
1:C:183:HIS:HD1	1:C:194:MET:CG	1.69	1.04
1:C:1622:PHE:HZ	1:C:1646:ILE:HD12	1.21	1.04
1:A:1365:ARG:HG2	1:A:1366:GLN:OE1	1.58	1.04
1:A:1477:ARG:HG3	1:A:1513:PHE:HB2	1.40	1.04
1:C:466:ALA:HB2	1:C:767:LYS:HD3	1.08	1.04
1:C:810:LEU:HD11	1:C:814:LEU:HD22	1.40	1.04
1:C:1087:SER:CB	1:C:1097:LYS:CD	2.35	1.04
1:C:1157:VAL:HG22	1:C:1216:VAL:HG12	1.37	1.04
1:A:590:ASP:OD1	1:A:657:HIS:NE2	1.91	1.03
2:B:2437:ILE:HG12	2:B:2441:LEU:HG	1.39	1.03
1:C:412:PRO:CG	1:C:654:TYR:HB2	1.87	1.03
1:C:560:ARG:CD	1:C:609:THR:CB	2.36	1.03
1:A:943:HIS:CD2	1:A:945:LYS:O	2.10	1.03
1:A:1087:SER:CB	1:A:1097:LYS:CD	2.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1747:LYS:NZ	2:D:2094:ARG:HD2	1.72	1.03
2:B:2538:ILE:HD11	2:B:2577:MET:HE1	1.05	1.03
1:C:1274:ARG:HD3	1:C:1365:ARG:NH2	1.74	1.03
2:D:2577:MET:CG	2:D:2698:TRP:NE1	2.18	1.03
1:C:1142:PHE:HE1	1:C:1234:VAL:HB	1.22	1.03
1:A:405:PRO:HG3	1:A:657:HIS:HB3	1.07	1.03
1:C:1087:SER:C	1:C:1097:LYS:HZ3	1.64	1.03
1:C:1242:HIS:CB	1:C:1476:TYR:HE1	1.72	1.03
1:C:1257:ARG:HB2	1:C:1521:TYR:CD1	1.93	1.03
1:A:148:LYS:HD2	1:A:150:GLY:O	1.56	1.03
1:A:183:HIS:HD1	1:A:194:MET:CG	1.70	1.03
1:A:1242:HIS:CB	1:A:1476:TYR:HE1	1.72	1.03
1:A:1161:ILE:HD13	1:A:1198:LYS:HE3	1.41	1.02
2:B:2175:TRP:HH2	2:B:2224:LEU:HB2	1.21	1.02
1:C:241:LEU:HD22	1:C:264:PRO:HB2	1.39	1.02
1:C:407:LYS:HE3	1:C:652:LYS:HG3	1.41	1.02
1:C:1477:ARG:HG3	1:C:1513:PHE:HB2	1.40	1.02
2:D:2194:VAL:HG12	2:D:2196:ARG:H	1.21	1.02
2:B:2494:HIS:NE2	2:B:3125:LYS:CG	2.21	1.02
2:B:2628:ARG:HH22	2:B:2696:LEU:HB2	1.25	1.02
2:D:2228:THR:HG23	2:D:2231:GLY:H	1.23	1.02
2:D:2437:ILE:HG12	2:D:2441:LEU:HG	1.39	1.02
1:A:560:ARG:CD	1:A:609:THR:CB	2.37	1.02
1:C:309:LEU:HB2	1:C:354:PHE:HD2	1.24	1.02
1:C:1161:ILE:HD13	1:C:1198:LYS:HE3	1.41	1.02
2:B:2144:PRO:HG2	2:B:2318:ALA:HB2	1.42	1.02
2:B:3243:PRO:CG	2:D:3354:PRO:HB3	1.89	1.02
1:C:1515:TYR:OH	1:C:1521:TYR:HB2	1.58	1.02
1:A:309:LEU:HB2	1:A:354:PHE:HD2	1.24	1.02
1:A:405:PRO:CG	1:A:657:HIS:HB3	1.90	1.02
1:A:452:VAL:HG11	1:A:676:LEU:HD12	1.08	1.02
1:A:1066:PRO:HB2	1:A:1069:VAL:HG22	1.36	1.02
1:A:1656:HIS:CA	2:B:1898:SER:HB2	1.88	1.02
1:A:1079:GLU:HB2	2:B:2456:GLU:HG3	1.03	1.01
2:D:2390:LEU:HB2	2:D:2429:TYR:HD2	1.20	1.01
1:A:481:VAL:HG21	1:A:486:ILE:HG23	1.42	1.01
1:A:1274:ARG:HD3	1:A:1365:ARG:NH2	1.74	1.01
2:B:2195:TRP:CA	2:D:1921:PRO:CB	2.38	1.01
2:B:2195:TRP:N	2:D:1921:PRO:CB	2.19	1.01
2:B:2228:THR:HG23	2:B:2231:GLY:H	1.23	1.01
2:D:2538:ILE:HD11	2:D:2577:MET:HE1	1.04	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:LYS:HE3	1:A:652:LYS:HG3	1.41	1.01
1:C:1189:ARG:NH1	2:D:2430:ASN:O	1.93	1.01
1:C:1306:ILE:HG21	1:C:1595:MET:HB3	1.42	1.01
1:A:1087:SER:HA	1:A:1097:LYS:NZ	1.75	1.01
2:B:2086:HIS:HB3	2:B:2090:THR:HG21	1.42	1.01
1:C:452:VAL:HG11	1:C:676:LEU:CD1	1.91	1.01
1:C:549:ILE:HG13	1:C:556:PRO:HG3	1.37	1.01
1:C:1087:SER:HA	1:C:1097:LYS:NZ	1.75	1.01
2:D:2083:LYS:HG2	2:D:2169:ALA:HB2	1.42	1.01
2:D:2144:PRO:HG2	2:D:2318:ALA:HB2	1.42	1.01
1:C:590:ASP:OD1	1:C:657:HIS:NE2	1.91	1.00
1:C:1254:SER:OG	1:C:1522:ALA:HB2	1.60	1.00
1:C:1365:ARG:HG2	1:C:1366:GLN:OE1	1.58	1.00
2:D:2973:TRP:HA	2:D:3141:LEU:HD13	1.42	1.00
1:A:1142:PHE:HE1	1:A:1234:VAL:HB	1.22	1.00
1:A:1622:PHE:HZ	1:A:1646:ILE:HD12	1.21	1.00
1:C:405:PRO:CG	1:C:657:HIS:HB3	1.90	1.00
1:C:1189:ARG:HH22	2:D:2432:LEU:H	1.06	1.00
2:D:2175:TRP:HH2	2:D:2224:LEU:HB2	1.21	1.00
2:D:2175:TRP:HB2	2:D:2263:ILE:HD11	1.43	1.00
1:A:1395:PHE:HB3	1:A:1400:PHE:HZ	1.25	1.00
1:A:1469:GLN:HG3	1:A:1474:ARG:HB2	1.43	1.00
2:B:3316:PRO:HD3	2:D:3350:LYS:HZ1	1.22	1.00
1:C:1469:GLN:HG3	1:C:1474:ARG:HB2	1.43	1.00
1:A:241:LEU:HD22	1:A:264:PRO:HB2	1.39	1.00
1:A:452:VAL:HG11	1:A:676:LEU:CD1	1.91	1.00
1:A:578:LEU:HD11	1:A:604:THR:HG21	1.39	1.00
1:A:1404:VAL:HG22	1:A:1423:LEU:HD22	1.43	1.00
1:C:1646:ILE:HD13	2:D:1906:VAL:CG2	1.91	1.00
2:D:1715:ALA:HA	2:D:1719:ARG:HH21	0.84	1.00
2:B:1747:LYS:NZ	2:D:2094:ARG:CD	2.25	0.99
1:C:578:LEU:HD11	1:C:604:THR:HG21	1.40	0.99
1:C:578:LEU:HD21	1:C:608:TRP:HH2	1.24	0.99
1:C:1233:SER:CB	2:D:2320:SER:CB	2.36	0.99
2:D:2628:ARG:HH22	2:D:2696:LEU:HB2	1.24	0.99
1:A:1254:SER:OG	1:A:1522:ALA:HB2	1.60	0.99
1:A:781:ILE:HG22	1:A:785:LEU:HG	1.44	0.99
1:C:366:VAL:HA	1:C:369:MET:HE3	1.40	0.99
1:A:1657:THR:N	2:B:1898:SER:OG	1.94	0.99
1:A:1306:ILE:HG21	1:A:1595:MET:HB3	1.42	0.99
2:B:2279:HIS:CE1	2:B:2280:TYR:CG	2.51	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:860:LEU:HD23	1:A:869:PHE:HB2	1.40	0.99
1:A:1334:LYS:HA	1:A:1334:LYS:HE2	1.45	0.99
1:A:5:ARG:CZ	1:A:89:LEU:CD2	2.38	0.99
1:A:1087:SER:HB2	1:A:1097:LYS:HD3	1.42	0.99
1:A:1087:SER:OG	1:A:1097:LYS:HD3	1.62	0.99
2:B:2175:TRP:HB2	2:B:2263:ILE:HD11	1.43	0.99
1:A:578:LEU:HD21	1:A:608:TRP:CH2	1.98	0.99
2:B:1909:MET:HE2	2:B:1938:PHE:CZ	1.98	0.99
1:C:781:ILE:HG22	1:C:785:LEU:HG	1.45	0.99
1:C:1257:ARG:CG	1:C:1521:TYR:CE1	2.45	0.99
2:D:2279:HIS:CE1	2:D:2280:TYR:CG	2.51	0.99
1:A:1618:LEU:CD1	2:B:1906:VAL:HG21	1.93	0.98
1:C:587:GLU:HG2	1:C:719:ILE:HG23	1.46	0.98
1:A:930:TRP:CH2	1:A:991:ILE:HD13	1.98	0.98
1:A:1648:PHE:HB3	2:B:1903:ASN:O	1.62	0.98
2:B:2036:ARG:HH21	2:B:2038:ASP:HB2	1.27	0.98
2:B:2195:TRP:O	2:D:1922:TYR:CE1	2.16	0.98
2:B:2973:TRP:HA	2:B:3141:LEU:HD13	1.42	0.98
1:C:860:LEU:HD23	1:C:869:PHE:HB2	1.40	0.98
2:D:1715:ALA:CA	2:D:1719:ARG:HH21	1.77	0.98
2:D:2085:ARG:HD2	2:D:2358:TYR:CE1	1.99	0.98
2:D:2086:HIS:HB3	2:D:2090:THR:HG21	1.42	0.98
2:D:3079:HIS:HA	2:D:3090:MET:HE3	1.45	0.98
1:A:587:GLU:HG2	1:A:719:ILE:HG23	1.45	0.98
1:C:481:VAL:HG21	1:C:486:ILE:HG23	1.43	0.98
1:A:20:GLN:HA	1:A:122:TYR:CE1	1.99	0.98
2:B:1817:LYS:O	2:D:1676:LYS:HD3	1.61	0.98
1:C:1395:PHE:HB3	1:C:1400:PHE:HZ	1.25	0.98
2:D:1909:MET:HE2	2:D:1938:PHE:CZ	1.98	0.98
2:D:2036:ARG:HH21	2:D:2038:ASP:HB2	1.27	0.98
2:D:2634:LEU:HA	2:D:2676:TRP:CE3	1.98	0.98
1:A:578:LEU:HD21	1:A:608:TRP:HH2	1.24	0.98
1:A:1087:SER:CA	1:A:1097:LYS:HE2	1.87	0.98
2:B:2500:ALA:CB	2:B:3131:SER:HA	1.94	0.98
1:C:1087:SER:HB2	1:C:1097:LYS:HD3	1.43	0.98
1:A:94:TRP:HD1	1:A:155:LEU:HD22	1.28	0.98
1:A:412:PRO:CD	1:A:654:TYR:HB2	1.94	0.98
1:A:1079:GLU:CB	2:B:2456:GLU:HG3	1.93	0.98
2:B:2173:TRP:CE3	2:B:2286:ILE:HD11	1.98	0.98
1:C:578:LEU:HD21	1:C:608:TRP:CH2	1.98	0.98
1:C:930:TRP:CH2	1:C:991:ILE:HD13	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1657:THR:CB	2:B:1900:SER:HB3	1.94	0.98
2:B:2194:VAL:O	2:D:1921:PRO:CG	2.11	0.98
2:B:2403:ILE:HD12	2:B:2460:ILE:HD11	1.43	0.98
1:A:1310:VAL:HG23	1:A:1316:PHE:HA	1.47	0.97
2:B:2493:ASP:O	2:B:2495:HIS:CD2	2.17	0.97
1:C:1404:VAL:HG22	1:C:1423:LEU:HD22	1.43	0.97
1:A:366:VAL:HA	1:A:369:MET:HE3	1.40	0.97
1:A:1161:ILE:HD13	1:A:1198:LYS:HE2	1.44	0.97
2:B:1715:ALA:CA	2:B:1719:ARG:HH21	1.77	0.97
1:C:560:ARG:HD2	1:C:609:THR:CB	1.95	0.97
2:B:2194:VAL:C	2:D:1921:PRO:HB2	1.76	0.97
1:C:1036:THR:HG22	1:C:1042:PHE:HD2	1.28	0.97
1:A:89:LEU:HD12	1:A:211:SER:HG	1.25	0.97
1:A:546:SER:HA	1:A:558:THR:HG21	1.44	0.97
2:B:2083:LYS:HG2	2:B:2169:ALA:HB2	1.43	0.97
2:B:2085:ARG:HD2	2:B:2358:TYR:CE1	1.99	0.97
1:C:546:SER:HA	1:C:558:THR:HG21	1.44	0.97
1:C:1161:ILE:HD13	1:C:1198:LYS:HE2	1.44	0.97
1:A:408:GLY:H	1:A:653:PRO:HG2	1.29	0.97
1:A:411:ASP:HB3	1:A:655:ARG:HB2	1.45	0.97
2:B:1715:ALA:HA	2:B:1719:ARG:HH21	0.84	0.97
1:C:412:PRO:CD	1:C:654:TYR:HB2	1.94	0.97
2:D:3062:ASP:HB2	2:D:3301:PHE:CE1	2.00	0.97
1:C:20:GLN:HA	1:C:122:TYR:CE1	1.99	0.97
1:C:1189:ARG:NH2	2:D:2432:LEU:H	1.61	0.97
2:B:2634:LEU:HA	2:B:2676:TRP:CE3	1.98	0.97
1:C:5:ARG:CZ	1:C:89:LEU:CD2	2.38	0.97
1:C:1484:GLN:NE2	2:D:2065:ILE:HB	1.80	0.97
2:D:2403:ILE:HD12	2:D:2460:ILE:HD11	1.43	0.97
2:B:1780:THR:HG23	2:B:1782:ARG:H	1.28	0.97
1:C:411:ASP:HB3	1:C:655:ARG:HB2	1.45	0.97
1:A:1618:LEU:HD22	1:A:1648:PHE:CD1	2.00	0.96
2:B:1845:ILE:HD12	2:B:2022:TYR:CD1	2.00	0.96
1:C:1334:LYS:HE2	1:C:1334:LYS:HA	1.45	0.96
2:D:2354:LEU:HD12	2:D:2356:TYR:HE1	1.30	0.96
2:B:2195:TRP:HD1	2:D:1695:SER:HB2	0.82	0.96
1:C:481:VAL:HG23	1:C:487:PHE:HA	1.47	0.96
2:D:2173:TRP:CE3	2:D:2286:ILE:HD11	1.98	0.96
1:C:1148:LEU:HB2	1:C:1187:TYR:CD2	2.00	0.96
1:A:694:TYR:HB2	1:A:700:TYR:CE1	2.00	0.96
1:C:1484:GLN:NE2	2:D:2065:ILE:HD13	1.81	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1607:ILE:HD12	1:C:1611:LEU:HD11	1.47	0.96
2:B:1714:PRO:O	2:B:1719:ARG:NH2	1.99	0.96
1:C:94:TRP:HD1	1:C:155:LEU:HD22	1.28	0.96
1:C:408:GLY:H	1:C:653:PRO:HG2	1.29	0.96
1:C:1087:SER:OG	1:C:1097:LYS:HD3	1.62	0.96
1:C:1156:LEU:HD13	1:C:1175:TYR:CE2	1.99	0.96
1:C:1214:TYR:CE2	1:C:1226:LYS:HD3	2.00	0.96
1:C:1310:VAL:HG23	1:C:1316:PHE:HA	1.47	0.96
1:A:896:HIS:HE1	1:A:1033:LEU:CD2	1.79	0.96
1:C:1079:GLU:N	2:D:2456:GLU:HG3	1.78	0.96
1:C:226:LEU:HD23	1:C:291:LYS:HE2	1.47	0.96
1:A:23:LEU:HD23	1:A:122:TYR:HD2	1.30	0.96
1:A:1156:LEU:HD13	1:A:1175:TYR:CE2	1.99	0.96
1:C:694:TYR:HB2	1:C:700:TYR:CE1	2.00	0.96
1:C:1646:ILE:HD13	2:D:1906:VAL:HG21	1.46	0.96
1:A:514:TRP:CE3	1:A:628:LEU:HD11	2.01	0.96
1:C:1088:ALA:N	1:C:1097:LYS:NZ	2.11	0.96
1:C:1249:GLN:C	1:C:1470:ARG:NH2	2.23	0.96
1:A:560:ARG:HD2	1:A:609:THR:CB	1.95	0.95
2:B:3062:ASP:HB2	2:B:3301:PHE:CE1	2.00	0.95
1:C:460:GLU:HG2	1:C:465:PRO:HD2	1.45	0.95
1:C:514:TRP:HE3	1:C:628:LEU:HD11	1.28	0.95
2:D:2186:PHE:CZ	2:D:2289:ILE:HG12	2.01	0.95
1:A:1239:ARG:NH1	1:A:1242:HIS:CE1	2.34	0.95
1:A:1249:GLN:C	1:A:1470:ARG:NH2	2.24	0.95
2:B:1686:LEU:HD12	2:B:1689:MET:HE2	1.48	0.95
2:B:2494:HIS:CE1	2:B:3125:LYS:CE	2.48	0.95
1:C:579:PHE:CE1	1:C:583:LEU:HD12	2.02	0.95
1:C:1657:THR:HB	2:D:1898:SER:OG	1.67	0.95
2:D:1845:ILE:HD12	2:D:2022:TYR:CD1	2.00	0.95
1:A:460:GLU:HG2	1:A:465:PRO:HD2	1.45	0.95
1:A:1214:TYR:CE2	1:A:1226:LYS:HD3	2.00	0.95
2:B:3079:HIS:HA	2:B:3090:MET:HE3	1.46	0.95
2:D:2665:GLN:HE22	2:D:2844:ARG:H	1.15	0.95
1:A:1148:LEU:HB2	1:A:1187:TYR:CD2	2.00	0.95
1:C:1618:LEU:HD22	1:C:1648:PHE:CD1	1.99	0.95
2:B:2401:PHE:CD2	2:B:2413:GLY:HA3	2.02	0.95
1:C:1079:GLU:HB2	2:D:2456:GLU:CG	1.96	0.95
2:B:2494:HIS:CB	2:B:3124:VAL:HG11	1.89	0.95
1:C:1153:LYS:HG3	1:C:1176:LEU:CD2	1.97	0.95
1:C:486:ILE:HD13	1:C:662:LEU:HG	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1395:PHE:HB3	1:C:1400:PHE:CZ	2.02	0.95
1:A:1257:ARG:CG	1:A:1521:TYR:HE1	1.73	0.95
1:A:1395:PHE:HB3	1:A:1400:PHE:CZ	2.02	0.95
2:B:2101:TYR:CE2	2:D:1694:SER:CA	2.50	0.95
1:C:514:TRP:CE3	1:C:628:LEU:HD11	2.01	0.95
1:C:1189:ARG:CD	2:D:2430:ASN:O	2.14	0.95
2:D:1686:LEU:HD12	2:D:1689:MET:HE2	1.48	0.95
1:A:514:TRP:HE3	1:A:628:LEU:HD11	1.28	0.95
1:A:1555:LEU:HB2	1:A:1599:PHE:CD2	2.02	0.95
2:B:2186:PHE:CZ	2:B:2289:ILE:HG12	2.01	0.95
1:C:309:LEU:HB2	1:C:354:PHE:CD2	2.02	0.95
1:A:481:VAL:HG23	1:A:487:PHE:HA	1.47	0.94
1:A:1239:ARG:NH1	1:A:1242:HIS:HE1	1.64	0.94
2:B:3243:PRO:HG2	2:D:3354:PRO:CB	1.96	0.94
2:D:1714:PRO:O	2:D:1719:ARG:NH2	1.99	0.94
1:A:1515:TYR:CZ	1:A:1519:PHE:HB3	2.00	0.94
1:C:1192:LYS:HZ2	1:C:1235:ILE:HD12	1.32	0.94
2:D:2670:HIS:HD1	2:D:2704:THR:HG21	1.32	0.94
1:A:5:ARG:CD	1:A:89:LEU:CD2	2.41	0.94
2:B:2307:LYS:HE3	2:B:2369:HIS:HA	1.47	0.94
2:D:1800:VAL:HG22	2:D:1803:LYS:HE2	1.49	0.94
1:C:1515:TYR:CZ	1:C:1519:PHE:HB3	2.02	0.94
1:A:130:PHE:CE2	1:A:131:LEU:HG	2.03	0.94
1:C:74:VAL:CG2	1:C:273:LEU:HD23	1.98	0.94
1:C:896:HIS:HE1	1:C:1033:LEU:CD2	1.79	0.94
1:C:1239:ARG:NH1	1:C:1242:HIS:CE1	2.34	0.94
1:A:486:ILE:HD13	1:A:662:LEU:HG	1.47	0.94
2:B:1747:LYS:CE	2:D:2094:ARG:HD2	1.98	0.94
2:B:2275:LEU:HD11	2:B:2284:ASP:HB3	1.48	0.94
2:B:3245:ALA:HB2	2:D:3352:LYS:HZ3	1.32	0.94
1:C:745:ILE:HG23	1:C:757:ALA:HB3	1.47	0.94
2:D:1780:THR:HG23	2:D:1782:ARG:H	1.28	0.94
1:A:745:ILE:HG23	1:A:757:ALA:HB3	1.47	0.94
2:B:3347:ALA:CB	2:D:3315:PRO:HB3	1.98	0.94
1:C:1142:PHE:CE1	1:C:1234:VAL:HB	2.02	0.94
1:C:1248:TYR:HA	1:C:1470:ARG:HD3	0.94	0.94
1:A:579:PHE:CE1	1:A:583:LEU:HD12	2.02	0.94
1:A:1079:GLU:HB2	2:B:2456:GLU:CG	1.97	0.94
1:A:1248:TYR:HA	1:A:1470:ARG:HD3	0.96	0.94
2:B:1800:VAL:HG22	2:B:1803:LYS:HE2	1.49	0.94
1:C:23:LEU:HD23	1:C:122:TYR:HD2	1.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:130:PHE:CE2	1:C:131:LEU:HG	2.03	0.94
1:C:688:PRO:HA	1:C:691:ILE:HG12	1.49	0.94
2:D:1761:LEU:HD12	2:D:1762:PRO:HD2	1.49	0.94
1:A:74:VAL:CG2	1:A:273:LEU:HD23	1.98	0.94
1:C:1010:GLN:HA	1:C:1191:PHE:HE1	1.32	0.94
1:C:1083:PRO:HA	1:C:1086:LEU:HD13	1.50	0.94
1:C:1618:LEU:CG	2:D:1906:VAL:HG11	1.98	0.94
2:D:2800:LEU:HD13	2:D:2828:ILE:HD11	1.50	0.94
1:A:309:LEU:HB2	1:A:354:PHE:CD2	2.02	0.94
1:A:560:ARG:HD3	1:A:609:THR:CA	1.98	0.94
1:A:1153:LYS:HG3	1:A:1176:LEU:CD2	1.97	0.94
1:C:5:ARG:CD	1:C:89:LEU:CD2	2.41	0.94
1:A:1036:THR:HG22	1:A:1042:PHE:HD2	1.28	0.93
1:A:1142:PHE:CE1	1:A:1234:VAL:HB	2.02	0.93
1:A:1607:ILE:HD12	1:A:1611:LEU:HD11	1.47	0.93
2:B:1874:PHE:CE1	2:B:1878:HIS:CE1	2.55	0.93
2:B:2665:GLN:HE22	2:B:2844:ARG:H	1.14	0.93
1:C:1189:ARG:NH1	2:D:2431:ARG:HA	1.82	0.93
1:C:1325:VAL:HG11	1:C:1515:TYR:HE1	1.32	0.93
1:A:1427:LEU:HD11	1:A:1431:LEU:HD12	1.51	0.93
2:D:2384:VAL:HG11	2:D:2441:LEU:HD12	1.50	0.93
2:D:3054:LEU:CB	2:D:3074:LEU:HD23	1.98	0.93
1:C:1239:ARG:NH1	1:C:1242:HIS:HE1	1.64	0.93
1:C:1427:LEU:HD11	1:C:1431:LEU:HD12	1.51	0.93
2:D:2279:HIS:CE1	2:D:2280:TYR:CE1	2.35	0.93
2:D:2401:PHE:CD2	2:D:2413:GLY:HA3	2.02	0.93
1:A:26:LEU:HB2	1:A:83:LYS:HD2	1.49	0.93
1:A:1365:ARG:CG	1:A:1366:GLN:OE1	2.16	0.93
2:B:3308:ILE:HG13	2:B:3329:MET:HB2	1.50	0.93
2:D:1874:PHE:CE1	2:D:1878:HIS:CE1	2.55	0.93
2:D:2275:LEU:HD11	2:D:2284:ASP:HB3	1.48	0.93
2:D:2390:LEU:HB2	2:D:2429:TYR:CD2	2.03	0.93
1:A:226:LEU:HD23	1:A:291:LYS:HE2	1.48	0.93
2:B:1714:PRO:HB3	2:B:1922:TYR:CE2	2.02	0.93
1:A:58:CYS:SG	1:A:60:HIS:HE1	1.91	0.93
2:B:1922:TYR:HE1	2:D:2195:TRP:O	1.52	0.93
1:C:1555:LEU:HB2	1:C:1599:PHE:HD2	1.31	0.93
1:A:688:PRO:HA	1:A:691:ILE:HG12	1.49	0.93
1:A:1010:GLN:HA	1:A:1191:PHE:HE1	1.32	0.93
2:B:1714:PRO:HG3	2:B:1922:TYR:CE2	2.01	0.93
2:B:2176:THR:HG22	2:B:2236:LEU:CD1	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2354:LEU:HD12	2:B:2356:TYR:HE1	1.30	0.93
2:B:3316:PRO:HD3	2:D:3350:LYS:NZ	1.75	0.93
1:C:1555:LEU:HB2	1:C:1599:PHE:CD2	2.02	0.93
1:C:1628:ILE:CG2	1:C:1636:LEU:HB2	1.99	0.93
1:C:1365:ARG:CG	1:C:1366:GLN:OE1	2.16	0.93
2:B:3054:LEU:CB	2:B:3074:LEU:HD23	1.98	0.93
1:C:560:ARG:HD3	1:C:609:THR:CA	1.98	0.93
2:D:1714:PRO:HB3	2:D:1922:TYR:CE2	2.02	0.93
1:A:1568:VAL:HG22	1:A:1624:LEU:CD2	1.99	0.93
2:B:2384:VAL:HG11	2:B:2441:LEU:HD12	1.50	0.93
2:D:2307:LYS:HE3	2:D:2369:HIS:HA	1.47	0.93
1:A:1327:VAL:HG11	1:A:1452:PHE:CE1	2.04	0.92
2:B:2390:LEU:HB2	2:B:2429:TYR:CD2	2.03	0.92
2:B:2800:LEU:HD13	2:B:2828:ILE:HD11	1.50	0.92
1:C:1568:VAL:HG22	1:C:1624:LEU:CD2	1.99	0.92
2:D:2176:THR:HG22	2:D:2236:LEU:CD1	1.99	0.92
2:D:3378:ALA:HB1	2:D:3383:LEU:HD12	1.51	0.92
1:C:383:LEU:CD2	1:C:391:LEU:HD22	1.99	0.92
2:D:3215:VAL:HG21	2:D:3233:PHE:CZ	2.05	0.92
1:C:58:CYS:SG	1:C:60:HIS:HE1	1.91	0.92
2:D:2157:PHE:HB2	2:D:2288:PHE:CE2	2.03	0.92
2:D:3348:MET:SD	2:D:3352:LYS:HB3	2.10	0.92
1:A:748:LYS:HE2	1:A:797:GLU:OE1	1.69	0.92
1:A:878:GLU:HG2	1:A:1034:ARG:HB2	1.52	0.92
1:A:1555:LEU:HB2	1:A:1599:PHE:HD2	1.31	0.92
2:B:2502:HIS:HD2	2:B:2765:ASN:HA	1.34	0.92
1:C:748:LYS:HE2	1:C:797:GLU:OE1	1.69	0.92
1:C:1319:TRP:HD1	1:C:1490:LEU:HD11	1.32	0.92
1:C:1515:TYR:OH	1:C:1521:TYR:CG	2.21	0.92
1:A:552:GLU:HG3	1:A:554:ASN:H	1.33	0.92
2:B:2497:SER:CB	2:B:3322:ARG:CZ	2.47	0.92
2:B:3291:ILE:HD11	2:B:3314:LEU:HD13	1.51	0.92
2:B:3348:MET:SD	2:B:3352:LYS:HB3	2.10	0.92
1:C:329:ASP:OD2	1:C:330:ARG:NH1	2.03	0.92
2:D:2240:ALA:HA	2:D:2259:MET:CE	2.00	0.92
1:A:383:LEU:CD2	1:A:391:LEU:HD22	1.99	0.92
1:A:1325:VAL:HG11	1:A:1515:TYR:HE1	1.32	0.92
1:A:1328:GLU:OE1	1:A:1521:TYR:CD2	2.22	0.92
2:B:2279:HIS:CE1	2:B:2280:TYR:CE1	2.35	0.92
2:D:2942:ILE:HD11	2:D:2980:GLN:CG	2.00	0.92
1:A:329:ASP:OD2	1:A:330:ARG:NH1	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:PRO:HD3	1:A:654:TYR:HB2	1.52	0.92
2:B:2157:PHE:HB2	2:B:2288:PHE:CE2	2.03	0.92
2:B:2195:TRP:CG	2:D:1695:SER:HG	1.86	0.92
2:B:2255:GLN:HA	2:B:2433:PHE:HE1	1.34	0.92
1:C:26:LEU:HB2	1:C:83:LYS:HD2	1.49	0.92
1:C:1328:GLU:OE1	1:C:1521:TYR:CD2	2.22	0.92
1:C:1515:TYR:CE2	1:C:1521:TYR:CB	2.53	0.92
2:D:1757:TRP:CZ3	2:D:1873:LEU:CD1	2.53	0.92
2:B:1761:LEU:HD12	2:B:1762:PRO:HD2	1.49	0.92
2:B:2497:SER:OG	2:B:3322:ARG:NH2	2.03	0.92
2:B:2670:HIS:HD1	2:B:2704:THR:HG21	1.32	0.92
1:C:435:GLU:OE2	1:C:509:ILE:HD11	1.70	0.92
1:A:241:LEU:HD11	1:A:265:ALA:CA	2.00	0.92
1:A:549:ILE:CG2	1:A:552:GLU:HG2	2.00	0.92
1:A:1657:THR:HB	2:B:1900:SER:HB3	1.52	0.92
1:C:241:LEU:HD11	1:C:265:ALA:CA	2.00	0.92
1:C:1087:SER:CA	1:C:1097:LYS:NZ	2.26	0.92
2:D:1714:PRO:HG3	2:D:1922:TYR:CE2	2.01	0.92
1:A:1257:ARG:HB2	1:A:1521:TYR:HD1	1.31	0.91
2:B:1729:THR:CG2	2:B:1913:LEU:HD21	2.00	0.91
2:B:2140:ILE:HG12	2:B:2143:MET:HB2	1.53	0.91
2:D:2140:ILE:HD13	2:D:2145:THR:CB	2.00	0.91
1:A:19:LEU:HD21	1:A:123:TRP:CZ2	2.05	0.91
1:A:464:LEU:HD12	1:A:551:PHE:CZ	2.05	0.91
1:A:1319:TRP:HD1	1:A:1490:LEU:HD11	1.32	0.91
1:C:464:LEU:HD12	1:C:551:PHE:CZ	2.05	0.91
1:C:1249:GLN:HG3	1:C:1476:TYR:HB3	1.50	0.91
1:C:1568:VAL:HG22	1:C:1624:LEU:HD22	1.53	0.91
1:A:1549:VAL:HG13	1:A:1607:ILE:CG1	2.01	0.91
2:B:3215:VAL:HG21	2:B:3233:PHE:CZ	2.05	0.91
1:C:186:VAL:HG11	1:C:205:ILE:CD1	2.00	0.91
1:C:552:GLU:HG3	1:C:554:ASN:H	1.33	0.91
1:A:1628:ILE:CG2	1:A:1636:LEU:HB2	1.99	0.91
2:B:3378:ALA:HB1	2:B:3383:LEU:HD12	1.52	0.91
1:A:1083:PRO:HA	1:A:1086:LEU:HD13	1.50	0.91
1:C:412:PRO:HD3	1:C:654:TYR:HB2	1.52	0.91
2:D:1689:MET:HE3	2:D:1698:PHE:CD1	2.04	0.91
2:D:3308:ILE:HG13	2:D:3329:MET:HB2	1.50	0.91
1:A:411:ASP:CB	1:A:655:ARG:H	1.84	0.91
1:A:498:VAL:CG1	1:A:511:ILE:CD1	2.48	0.91
1:A:1249:GLN:HG3	1:A:1476:TYR:HB3	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1515:TYR:CE2	1:A:1521:TYR:CB	2.52	0.91
1:A:186:VAL:HG11	1:A:205:ILE:CD1	2.00	0.91
2:B:1817:LYS:HA	2:D:1676:LYS:HE2	1.52	0.91
2:B:1921:PRO:HB2	2:D:2195:TRP:HA	1.53	0.91
1:C:498:VAL:HG13	1:C:511:ILE:CD1	2.00	0.91
1:C:698:LEU:HD12	1:C:700:TYR:HB3	1.52	0.91
1:C:791:THR:HG23	1:C:794:GLY:H	1.35	0.91
1:C:1160:ASN:HD22	1:C:1168:CYS:HB3	1.35	0.91
1:A:435:GLU:OE2	1:A:509:ILE:HD11	1.70	0.91
1:A:1515:TYR:CE2	1:A:1521:TYR:O	2.24	0.91
2:B:2140:ILE:HD13	2:B:2145:THR:CB	2.00	0.91
1:C:878:GLU:HG2	1:C:1034:ARG:HB2	1.52	0.91
1:C:1549:VAL:HG13	1:C:1607:ILE:CG1	2.01	0.91
1:C:1557:ASN:HB3	1:C:1597:PHE:CZ	2.06	0.91
1:A:1088:ALA:N	1:A:1097:LYS:NZ	2.11	0.91
1:A:1657:THR:OG1	2:B:1900:SER:HB3	1.71	0.91
1:C:1327:VAL:HG11	1:C:1452:PHE:CE1	2.04	0.91
2:D:2140:ILE:HG12	2:D:2143:MET:HB2	1.53	0.91
1:A:1568:VAL:HG22	1:A:1624:LEU:HD22	1.53	0.91
2:B:3223:THR:HG23	2:B:3224:ASP:H	1.35	0.91
1:C:498:VAL:CG1	1:C:511:ILE:CD1	2.48	0.91
2:D:3291:ILE:HD11	2:D:3314:LEU:HD13	1.51	0.91
1:A:498:VAL:HG13	1:A:511:ILE:CD1	2.00	0.90
1:A:895:VAL:HG21	1:A:900:VAL:HB	1.51	0.90
2:B:1757:TRP:CZ3	2:B:1873:LEU:CD1	2.53	0.90
2:B:2240:ALA:HA	2:B:2259:MET:CE	2.00	0.90
2:B:2942:ILE:HD11	2:B:2980:GLN:CG	2.00	0.90
2:B:3178:ASN:HD22	2:B:3183:ASN:HA	1.35	0.90
1:C:19:LEU:HD21	1:C:123:TRP:CZ2	2.05	0.90
1:A:791:THR:HG23	1:A:794:GLY:H	1.36	0.90
2:B:1707:LEU:CD2	2:B:1709:PRO:HD2	2.01	0.90
2:B:2175:TRP:CH2	2:B:2224:LEU:HB2	2.06	0.90
2:D:1757:TRP:HE3	2:D:1873:LEU:HD11	1.30	0.90
1:A:1442:LEU:HA	1:A:1589:LEU:HD11	1.53	0.90
2:B:1757:TRP:HE3	2:B:1873:LEU:HD11	1.29	0.90
2:B:2494:HIS:HE1	2:B:3125:LYS:HZ1	0.99	0.90
2:D:1729:THR:CG2	2:D:1913:LEU:HD21	2.00	0.90
1:A:466:ALA:HB2	1:A:767:LYS:CD	2.00	0.90
1:A:560:ARG:NH2	1:A:617:MET:HG2	1.83	0.90
1:A:1156:LEU:HD13	1:A:1175:TYR:CZ	2.07	0.90
2:D:2140:ILE:HG23	2:D:2146:PHE:HA	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2175:TRP:CB	2:B:2263:ILE:HD11	2.01	0.90
1:C:1189:ARG:NH2	2:D:2432:LEU:N	2.17	0.90
2:D:3178:ASN:HD22	2:D:3183:ASN:HA	1.35	0.90
1:A:186:VAL:HG11	1:A:205:ILE:HD13	1.54	0.90
1:A:1160:ASN:HD22	1:A:1168:CYS:HB3	1.35	0.90
2:B:1689:MET:HE3	2:B:1698:PHE:CD1	2.04	0.90
1:C:1079:GLU:CB	2:D:2456:GLU:OE2	2.19	0.90
1:A:163:LEU:HD12	1:A:294:LEU:CD1	2.02	0.90
2:B:2494:HIS:CD2	2:B:3124:VAL:O	2.25	0.90
1:C:186:VAL:HG11	1:C:205:ILE:HD13	1.54	0.90
1:C:549:ILE:CG2	1:C:552:GLU:HG2	2.01	0.90
1:C:560:ARG:NH2	1:C:617:MET:HG3	1.85	0.90
1:C:1216:VAL:CG2	1:C:1224:LEU:HB2	2.02	0.90
2:D:1707:LEU:HD22	2:D:1709:PRO:CD	2.02	0.90
1:A:427:ASN:HB3	1:A:513:TYR:CZ	2.07	0.90
1:A:1216:VAL:CG2	1:A:1224:LEU:HB2	2.02	0.90
2:B:3020:PHE:CZ	2:B:3021:LYS:HE3	2.07	0.90
1:C:411:ASP:CB	1:C:655:ARG:H	1.84	0.90
1:C:1087:SER:CA	1:C:1097:LYS:HE2	1.87	0.90
2:D:2255:GLN:HA	2:D:2433:PHE:HE1	1.34	0.90
1:A:698:LEU:HD12	1:A:700:TYR:HB3	1.52	0.90
1:C:95:THR:CA	1:C:155:LEU:HD23	2.02	0.90
1:C:853:LEU:HB3	1:C:959:TRP:CZ2	2.07	0.90
2:D:2577:MET:HG3	2:D:2698:TRP:CE2	2.07	0.90
2:B:2498:SER:O	2:B:3397:ASP:OD1	1.90	0.89
2:B:2634:LEU:HD12	2:B:2676:TRP:HE3	1.37	0.89
1:A:425:ARG:HD2	1:A:702:TYR:CE1	2.08	0.89
1:A:1249:GLN:CB	1:A:1470:ARG:HH21	1.85	0.89
1:A:1549:VAL:HG11	1:A:1611:LEU:HD12	1.55	0.89
2:B:2526:VAL:HG22	2:B:2584:HIS:CD2	2.07	0.89
1:C:163:LEU:HD12	1:C:294:LEU:CD1	2.02	0.89
1:C:1141:ARG:HG3	1:C:1143:PHE:HE1	1.37	0.89
1:C:1409:GLU:HB2	1:C:1543:ARG:HH21	1.37	0.89
1:C:1515:TYR:OH	1:C:1521:TYR:CB	2.20	0.89
2:D:2233:HIS:HA	2:D:2237:LEU:HD23	1.55	0.89
1:A:1468:LEU:CD2	1:A:1533:ILE:HG23	2.03	0.89
2:B:2101:TYR:HD1	2:D:1693:HIS:HB3	1.09	0.89
2:D:2224:LEU:HD23	2:D:2225:PHE:H	1.36	0.89
1:A:95:THR:CA	1:A:155:LEU:HD23	2.02	0.89
1:A:1087:SER:CA	1:A:1097:LYS:NZ	2.25	0.89
1:A:1515:TYR:CD1	1:A:1519:PHE:CB	2.56	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1557:ASN:HB3	1:A:1597:PHE:CZ	2.06	0.89
2:B:1707:LEU:HD22	2:B:1709:PRO:CD	2.02	0.89
1:C:425:ARG:HD2	1:C:702:TYR:CE1	2.07	0.89
1:C:1468:LEU:CD2	1:C:1533:ILE:HG23	2.03	0.89
1:C:1515:TYR:CE2	1:C:1521:TYR:O	2.24	0.89
1:A:853:LEU:HB3	1:A:959:TRP:CZ2	2.07	0.89
1:A:1141:ARG:HG3	1:A:1143:PHE:HE1	1.37	0.89
2:B:1817:LYS:CA	2:D:1676:LYS:HE2	2.02	0.89
2:B:1985:SER:OG	2:B:2050:TYR:OH	1.91	0.89
2:B:2195:TRP:C	2:D:1922:TYR:CE1	2.51	0.89
1:C:23:LEU:HB3	1:C:122:TYR:CD2	2.08	0.89
1:C:94:TRP:CZ2	1:C:185:LEU:HD22	2.08	0.89
1:C:629:PHE:CE2	1:C:633:HIS:CE1	2.60	0.89
1:C:724:GLN:HE22	1:C:828:LYS:HE2	0.73	0.89
2:D:2221:GLN:HG2	2:D:2266:LEU:CD1	2.02	0.89
2:D:2263:ILE:HD12	2:D:2290:HIS:CE1	2.07	0.89
2:D:3020:PHE:CZ	2:D:3021:LYS:HE3	2.07	0.89
2:D:3086:GLU:HB2	2:D:3089:SER:HB3	1.55	0.89
1:A:1192:LYS:NZ	1:A:1235:ILE:HD12	1.87	0.89
2:B:2140:ILE:HG23	2:B:2146:PHE:HA	1.54	0.89
2:D:2103:LEU:HD23	2:D:2161:LEU:HD11	1.54	0.89
2:D:2124:LEU:HB3	2:D:2279:HIS:HB2	1.54	0.89
2:D:2526:VAL:HG22	2:D:2584:HIS:CD2	2.07	0.89
1:A:23:LEU:HB3	1:A:122:TYR:CD2	2.08	0.89
1:A:248:PHE:CD1	1:A:258:THR:HG21	2.07	0.89
1:A:629:PHE:CE2	1:A:633:HIS:CE1	2.60	0.89
1:C:1235:ILE:HA	2:D:2319:VAL:HB	1.55	0.89
1:C:1442:LEU:HA	1:C:1589:LEU:HD11	1.53	0.89
2:D:2175:TRP:CB	2:D:2263:ILE:HD11	2.01	0.89
1:A:251:GLU:HG2	1:A:259:ASN:CG	1.98	0.89
1:A:1662:THR:HB	2:B:1893:ARG:HB2	1.52	0.89
2:B:1671:ILE:HD11	2:B:1769:LEU:HD13	1.54	0.89
1:C:427:ASN:HB3	1:C:513:TYR:CZ	2.07	0.89
1:C:995:VAL:HG21	1:C:1121:PHE:CZ	2.07	0.89
1:A:995:VAL:HG21	1:A:1121:PHE:CZ	2.07	0.89
1:A:1242:HIS:HB3	1:A:1476:TYR:HE1	1.37	0.89
1:A:1515:TYR:OH	1:A:1521:TYR:CB	2.20	0.89
2:B:3149:VAL:HG23	2:B:3151:ASN:N	1.88	0.89
1:C:1249:GLN:CA	1:C:1470:ARG:HH21	1.85	0.89
1:A:560:ARG:NH2	1:A:617:MET:HG3	1.85	0.89
2:B:2263:ILE:HD12	2:B:2290:HIS:CE1	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2279:HIS:CE1	2:B:2280:TYR:CD1	2.61	0.89
1:C:248:PHE:CD1	1:C:258:THR:HG21	2.07	0.89
1:C:782:THR:CG2	1:C:786:LYS:HE2	2.02	0.89
1:C:1156:LEU:HD13	1:C:1175:TYR:CZ	2.06	0.89
1:C:1192:LYS:NZ	1:C:1235:ILE:HD12	1.87	0.89
1:C:1613:LYS:O	2:D:2779:LYS:HE2	1.73	0.89
2:D:2175:TRP:CH2	2:D:2224:LEU:HB2	2.06	0.89
1:A:26:LEU:CB	1:A:83:LYS:HD2	2.03	0.88
2:B:3086:GLU:HB2	2:B:3089:SER:HB3	1.55	0.88
1:C:251:GLU:HG2	1:C:259:ASN:CG	1.98	0.88
2:D:1985:SER:OG	2:D:2050:TYR:OH	1.91	0.88
2:D:2279:HIS:CB	2:D:2423:LYS:HE2	2.03	0.88
2:D:3223:THR:HG23	2:D:3224:ASP:H	1.35	0.88
1:A:1515:TYR:OH	1:A:1521:TYR:CG	2.25	0.88
2:B:2577:MET:HG3	2:B:2698:TRP:CE2	2.08	0.88
1:C:177:LEU:HD12	1:C:358:TYR:CE1	2.08	0.88
1:C:895:VAL:HG21	1:C:900:VAL:HB	1.51	0.88
1:C:1079:GLU:CB	2:D:2456:GLU:CD	2.42	0.88
2:D:1909:MET:CE	2:D:1938:PHE:HE2	1.79	0.88
1:A:177:LEU:HD12	1:A:358:TYR:CE1	2.08	0.88
1:A:250:TRP:CE3	1:A:252:ASP:HB2	2.08	0.88
2:B:2194:VAL:O	2:D:1921:PRO:HG2	1.73	0.88
2:B:2195:TRP:HE3	2:D:1922:TYR:CD1	1.91	0.88
2:B:2221:GLN:HG2	2:B:2266:LEU:CD1	2.02	0.88
1:C:183:HIS:ND1	1:C:194:MET:HG2	1.88	0.88
1:C:273:LEU:HD22	1:C:275:TYR:HE2	1.37	0.88
1:C:895:VAL:HG23	1:C:898:MET:CE	2.04	0.88
1:C:1476:TYR:CE2	1:C:1477:ARG:CB	2.57	0.88
2:D:1766:LEU:HB3	2:D:1767:PRO:HD2	1.55	0.88
2:D:2777:THR:HG23	2:D:2780:LYS:H	1.38	0.88
2:D:3209:ILE:H	2:D:3209:ILE:HD13	1.38	0.88
1:A:1274:ARG:HA	1:A:1374:PHE:HE1	1.36	0.88
2:B:2103:LEU:HD23	2:B:2161:LEU:HD11	1.54	0.88
1:A:273:LEU:HD22	1:A:275:TYR:HE2	1.37	0.88
1:A:1409:GLU:HB2	1:A:1543:ARG:HH21	1.37	0.88
1:C:407:LYS:HE3	1:C:652:LYS:CG	2.04	0.88
1:C:1242:HIS:HB3	1:C:1476:TYR:HE1	1.37	0.88
2:D:2279:HIS:CE1	2:D:2280:TYR:CD1	2.61	0.88
1:A:782:THR:CG2	1:A:786:LYS:HE2	2.02	0.88
1:A:1515:TYR:HE2	1:A:1521:TYR:CA	1.86	0.88
2:B:1766:LEU:HB3	2:B:1767:PRO:HD2	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2500:ALA:HB1	2:B:3131:SER:HA	1.53	0.88
2:D:2697:PHE:CD1	2:D:2701:HIS:CE1	2.51	0.88
1:A:895:VAL:HG23	1:A:898:MET:CE	2.03	0.88
2:B:2697:PHE:CD1	2:B:2701:HIS:CE1	2.51	0.88
1:C:1274:ARG:HA	1:C:1374:PHE:HE1	1.36	0.88
1:C:1506:HIS:CE1	1:C:1518:SER:HB3	2.09	0.88
2:D:1988:VAL:CG1	2:D:2047:ILE:HG12	2.04	0.88
2:D:2345:PRO:HA	2:D:2348:VAL:HG13	1.55	0.88
1:A:1506:HIS:CE1	1:A:1518:SER:HB3	2.09	0.88
2:B:2568:HIS:CE1	2:B:2732:MET:HE1	2.09	0.88
2:B:3206:LEU:H	2:B:3206:LEU:HD22	1.38	0.88
1:C:560:ARG:NH2	1:C:617:MET:HG2	1.84	0.88
1:C:895:VAL:CG1	1:C:901:PHE:HA	2.03	0.88
2:D:1671:ILE:HD11	2:D:1769:LEU:HD13	1.54	0.88
2:D:2634:LEU:HD12	2:D:2676:TRP:HE3	1.37	0.88
2:B:1843:PHE:HE1	2:B:1884:ILE:HG13	1.39	0.88
1:C:746:PHE:CE2	1:C:799:THR:HB	2.09	0.88
1:C:1091:ASN:HB3	1:C:1097:LYS:HE2	1.56	0.88
1:A:22:ALA:HB1	1:A:83:LYS:HB3	1.56	0.88
1:C:26:LEU:CB	1:C:83:LYS:HD2	2.03	0.88
1:C:466:ALA:HB2	1:C:767:LYS:CD	2.00	0.88
1:A:1515:TYR:HD1	1:A:1519:PHE:CD2	1.92	0.87
2:B:1745:LEU:HD12	2:B:1754:LEU:HD21	1.56	0.87
2:B:1909:MET:HE2	2:B:1938:PHE:HE2	1.04	0.87
1:C:435:GLU:OE2	1:C:509:ILE:CD1	2.23	0.87
1:C:1274:ARG:CD	1:C:1365:ARG:HH22	1.87	0.87
2:D:2322:MET:HE1	2:D:2349:PHE:HE1	1.38	0.87
1:A:1249:GLN:CA	1:A:1470:ARG:HH21	1.86	0.87
1:A:1659:ASP:OD2	2:B:1942:LYS:HE3	1.74	0.87
1:C:1257:ARG:HG3	1:C:1521:TYR:HE1	1.05	0.87
2:D:1707:LEU:HD22	2:D:1709:PRO:HD2	1.56	0.87
2:D:1745:LEU:HD12	2:D:1754:LEU:HD21	1.56	0.87
2:D:1843:PHE:HE1	2:D:1884:ILE:HG13	1.39	0.87
1:A:94:TRP:CZ2	1:A:185:LEU:HD22	2.08	0.87
2:B:1745:LEU:HB3	2:B:1750:ALA:HB2	1.57	0.87
2:B:2322:MET:HE1	2:B:2349:PHE:HE1	1.38	0.87
1:C:70:ARG:HD3	1:C:267:LEU:HD11	1.57	0.87
1:C:688:PRO:HA	1:C:691:ILE:CG1	2.04	0.87
1:C:1248:TYR:HB3	1:C:1470:ARG:HD2	1.53	0.87
2:D:3076:ASN:CG	2:D:3236:LEU:HD13	1.99	0.87
1:A:1091:ASN:O	1:A:1097:LYS:HE3	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1249:GLN:NE2	1:A:1476:TYR:CE1	2.43	0.87
2:B:2100:LYS:HA	2:B:2204:PHE:CE1	2.09	0.87
2:B:2124:LEU:HB3	2:B:2279:HIS:HB2	1.54	0.87
2:D:1707:LEU:CD2	2:D:1709:PRO:HD2	2.01	0.87
1:A:688:PRO:HA	1:A:691:ILE:CG1	2.04	0.87
1:A:724:GLN:HE22	1:A:828:LYS:HE2	0.72	0.87
1:A:945:LYS:HG2	1:A:956:HIS:HA	1.56	0.87
2:B:1985:SER:HB3	2:B:2050:TYR:CZ	2.08	0.87
2:B:2224:LEU:HD23	2:B:2225:PHE:H	1.36	0.87
2:B:2279:HIS:CB	2:B:2423:LYS:HE2	2.03	0.87
1:C:1515:TYR:HE2	1:C:1521:TYR:CA	1.87	0.87
2:D:1985:SER:HB3	2:D:2050:TYR:CZ	2.08	0.87
1:A:860:LEU:CD2	1:A:869:PHE:HB2	2.04	0.87
1:A:1257:ARG:CB	1:A:1521:TYR:CD1	2.57	0.87
1:A:1274:ARG:CD	1:A:1365:ARG:HH22	1.87	0.87
1:A:1657:THR:HA	2:B:1901:GLU:OE1	1.74	0.87
2:B:2714:LEU:CD2	2:B:2778:ILE:HG23	2.04	0.87
2:B:3340:LEU:HB3	2:B:3377:THR:HG22	1.56	0.87
2:B:3346:THR:HA	2:B:3349:PHE:CD2	2.08	0.87
2:D:2124:LEU:CD2	2:D:2125:PRO:HA	2.04	0.87
1:A:183:HIS:ND1	1:A:194:MET:HG2	1.88	0.87
1:A:248:PHE:HB3	1:A:258:THR:HG22	1.57	0.87
1:A:324:ILE:HG12	1:A:371:MET:SD	2.15	0.87
1:C:22:ALA:HB1	1:C:83:LYS:HB3	1.56	0.87
1:C:246:GLU:HB3	1:C:247:PRO:HA	1.55	0.87
1:C:250:TRP:CE3	1:C:252:ASP:HB2	2.08	0.87
2:D:1745:LEU:HB3	2:D:1750:ALA:HB2	1.57	0.87
2:D:2687:THR:HG21	2:D:2690:TYR:HD2	1.39	0.87
2:D:3149:VAL:HG23	2:D:3151:ASN:N	1.88	0.87
2:D:3346:THR:HA	2:D:3349:PHE:CD2	2.08	0.87
1:A:746:PHE:CE2	1:A:799:THR:HB	2.09	0.87
1:A:895:VAL:CG1	1:A:901:PHE:HA	2.04	0.87
1:A:1148:LEU:HB2	1:A:1187:TYR:HD2	1.37	0.87
1:C:860:LEU:CD2	1:C:869:PHE:HB2	2.03	0.87
1:A:1091:ASN:HB3	1:A:1097:LYS:HE2	1.56	0.87
1:A:1099:HIS:NE2	1:A:1111:ASN:HB3	1.90	0.87
2:D:3216:LYS:HE2	2:D:3229:TYR:CD2	2.10	0.87
1:A:895:VAL:CG2	1:A:898:MET:HE3	2.05	0.86
2:B:1973:VAL:CG2	2:B:2026:ILE:HG13	2.04	0.86
2:B:3062:ASP:HB2	2:B:3301:PHE:HE1	1.40	0.86
1:C:600:ILE:HG21	1:C:777:PHE:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1242:HIS:NE2	1:C:1477:ARG:NH2	2.23	0.86
1:C:1549:VAL:HG11	1:C:1611:LEU:HD12	1.55	0.86
1:A:407:LYS:HE3	1:A:652:LYS:CG	2.04	0.86
1:A:1248:TYR:HB3	1:A:1470:ARG:HD2	1.53	0.86
1:A:1476:TYR:CE2	1:A:1477:ARG:CB	2.57	0.86
2:B:2244:LEU:HD11	2:B:2304:LEU:HD22	1.56	0.86
2:B:3216:LYS:HE2	2:B:3229:TYR:CD2	2.10	0.86
2:B:3248:ARG:NE	2:B:3320:VAL:HG21	1.89	0.86
2:B:3320:VAL:HG12	2:B:3321:LYS:H	1.41	0.86
2:B:3387:ASN:ND2	2:B:3389:LEU:HG	1.89	0.86
1:C:1091:ASN:O	1:C:1097:LYS:HE3	1.75	0.86
1:C:1099:HIS:NE2	1:C:1111:ASN:HB3	1.90	0.86
1:C:1249:GLN:CB	1:C:1470:ARG:HH21	1.86	0.86
2:D:2100:LYS:HA	2:D:2204:PHE:CE1	2.09	0.86
1:A:70:ARG:HD3	1:A:267:LEU:HD11	1.57	0.86
1:A:435:GLU:OE2	1:A:509:ILE:CD1	2.23	0.86
1:A:928:TRP:CE3	1:A:1041:LEU:HD11	2.10	0.86
2:B:2233:HIS:HA	2:B:2237:LEU:HD23	1.55	0.86
1:C:1249:GLN:NE2	1:C:1476:TYR:CE1	2.43	0.86
1:C:1365:ARG:HG2	1:C:1366:GLN:H	1.41	0.86
2:D:3248:ARG:NE	2:D:3320:VAL:HG21	1.89	0.86
2:D:3306:ILE:HG22	2:D:3329:MET:HG2	1.57	0.86
2:D:3318:VAL:HG12	2:D:3320:VAL:CG2	2.05	0.86
2:D:3366:MET:HG2	2:D:3367:TYR:H	1.40	0.86
1:A:1242:HIS:NE2	1:A:1477:ARG:NH2	2.23	0.86
2:B:1988:VAL:CG1	2:B:2047:ILE:HG12	2.04	0.86
2:B:2777:THR:HG23	2:B:2780:LYS:H	1.38	0.86
2:B:3209:ILE:HD13	2:B:3209:ILE:H	1.39	0.86
1:C:58:CYS:SG	1:C:60:HIS:ND1	2.49	0.86
2:D:3340:LEU:HB3	2:D:3377:THR:HG22	1.56	0.86
1:C:319:PHE:HD2	1:C:337:LYS:HE3	1.41	0.86
1:C:1249:GLN:CA	1:C:1470:ARG:NH2	2.38	0.86
2:D:1973:VAL:CG2	2:D:2026:ILE:HG13	2.04	0.86
2:D:2538:ILE:CD1	2:D:2577:MET:HE1	1.75	0.86
2:D:2538:ILE:HD13	2:D:2577:MET:SD	1.44	0.86
1:A:58:CYS:SG	1:A:60:HIS:ND1	2.49	0.86
1:A:1515:TYR:HE2	1:A:1521:TYR:CB	1.88	0.86
2:B:1985:SER:HB3	2:B:2050:TYR:HE2	0.91	0.86
1:C:928:TRP:CE3	1:C:1041:LEU:HD11	2.10	0.86
1:C:1228:LEU:HD23	1:C:1229:PHE:H	1.41	0.86
2:D:3160:LEU:HD13	2:D:3162:ASN:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3387:ASN:ND2	2:D:3389:LEU:HG	1.89	0.86
1:A:183:HIS:CE1	1:A:194:MET:HE2	2.11	0.86
2:B:2195:TRP:CE3	2:D:1922:TYR:CD1	2.63	0.86
2:B:2494:HIS:HB3	2:B:3124:VAL:CG1	2.04	0.86
1:C:324:ILE:HG12	1:C:371:MET:SD	2.15	0.86
1:C:1539:MET:HA	1:C:1539:MET:HE3	1.58	0.86
2:D:2106:LEU:HD11	2:D:2161:LEU:CD1	2.06	0.86
2:D:2221:GLN:HG2	2:D:2266:LEU:HD13	1.58	0.86
2:D:2401:PHE:HD2	2:D:2413:GLY:HA3	1.41	0.86
2:D:3206:LEU:HD22	2:D:3206:LEU:H	1.38	0.86
1:A:319:PHE:HD2	1:A:337:LYS:HE3	1.41	0.86
1:A:600:ILE:HG21	1:A:777:PHE:CE1	2.10	0.86
2:B:1745:LEU:HD12	2:B:1754:LEU:CD2	2.06	0.86
2:B:2687:THR:HG21	2:B:2690:TYR:HD2	1.39	0.86
2:B:2761:TYR:HA	2:B:2764:PHE:CD1	2.11	0.86
1:C:1148:LEU:HB2	1:C:1187:TYR:HD2	1.37	0.86
2:D:1706:ALA:HB1	2:D:1866:HIS:HA	1.56	0.86
2:D:2254:VAL:HG12	2:D:2433:PHE:CD1	2.09	0.86
2:D:2267:VAL:HG21	2:D:2275:LEU:HG	1.57	0.86
2:D:2538:ILE:HD12	2:D:2577:MET:CG	2.06	0.86
2:D:2636:ASN:ND2	2:D:2645:PHE:HB2	1.91	0.86
1:A:80:LEU:HB3	1:A:85:ARG:HB2	1.57	0.86
2:B:2267:VAL:HG21	2:B:2275:LEU:HG	1.57	0.86
2:B:3076:ASN:CG	2:B:3236:LEU:HD13	1.99	0.86
1:C:516:TRP:CZ2	1:C:566:LEU:HG	2.11	0.86
1:C:1030:MET:HE1	1:C:1042:PHE:HA	1.58	0.86
1:C:1091:ASN:HB3	1:C:1097:LYS:CE	2.06	0.86
2:D:2568:HIS:CE1	2:D:2732:MET:HE1	2.09	0.86
1:A:1657:THR:HB	2:B:1901:GLU:OE1	1.76	0.86
2:B:2636:ASN:ND2	2:B:2645:PHE:HB2	1.91	0.86
1:C:239:GLU:OE2	1:C:819:SER:HB3	1.76	0.86
1:C:997:LEU:O	1:C:1000:GLU:HG2	1.76	0.86
1:C:1515:TYR:CD1	1:C:1519:PHE:CB	2.57	0.86
1:A:1033:LEU:HB3	1:A:1179:ASP:HB2	1.56	0.85
1:A:1622:PHE:CZ	1:A:1646:ILE:HD12	2.10	0.85
1:A:1628:ILE:HG23	1:A:1636:LEU:HB2	1.57	0.85
2:B:2538:ILE:HD13	2:B:2577:MET:SD	1.44	0.85
2:B:3347:ALA:CB	2:D:3315:PRO:CB	2.52	0.85
2:D:2244:LEU:HD11	2:D:2304:LEU:HD22	1.55	0.85
1:A:179:HIS:ND1	1:A:213:VAL:HG11	1.91	0.85
1:A:384:PHE:CZ	1:A:388:GLY:HA2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1817:LYS:O	2:D:1676:LYS:CD	2.24	0.85
2:B:2155:LEU:HD21	2:B:2354:LEU:HD13	1.56	0.85
2:B:2209:VAL:CG1	2:B:2212:HIS:HB2	2.06	0.85
2:B:2279:HIS:NE2	2:B:2280:TYR:CD2	2.35	0.85
2:B:2538:ILE:HD12	2:B:2577:MET:CG	2.06	0.85
2:B:2680:LEU:HD12	2:B:2681:THR:N	1.91	0.85
1:C:384:PHE:CZ	1:C:388:GLY:HA2	2.11	0.85
1:C:1078:ARG:CB	2:D:2457:PRO:CD	2.53	0.85
1:C:1605:LEU:HD13	1:C:1606:ASP:N	1.91	0.85
1:C:1628:ILE:HG23	1:C:1636:LEU:HB2	1.57	0.85
2:D:2155:LEU:HD21	2:D:2354:LEU:HD13	1.56	0.85
1:A:1463:ALA:HA	1:A:1466:GLN:NE2	1.91	0.85
1:C:1254:SER:OG	1:C:1522:ALA:CB	2.24	0.85
2:D:3062:ASP:HB2	2:D:3301:PHE:HE1	1.40	0.85
1:A:60:HIS:CD2	1:A:65:PHE:HE2	1.94	0.85
1:A:1091:ASN:HB3	1:A:1097:LYS:CE	2.06	0.85
1:A:1249:GLN:CA	1:A:1470:ARG:NH2	2.39	0.85
2:B:1676:LYS:HD3	2:D:1817:LYS:O	1.74	0.85
2:B:2106:LEU:HD11	2:B:2161:LEU:CD1	2.06	0.85
2:B:2596:THR:HG22	2:B:2774:HIS:HE1	1.41	0.85
2:B:2794:THR:CG2	2:B:2847:ILE:HG13	2.06	0.85
2:B:3328:PHE:HE1	2:B:3364:GLY:HA2	1.42	0.85
1:C:26:LEU:CA	1:C:83:LYS:HD2	2.07	0.85
1:C:183:HIS:CE1	1:C:194:MET:HE2	2.11	0.85
1:C:1033:LEU:HB3	1:C:1179:ASP:HB2	1.56	0.85
1:C:1406:TYR:HA	1:C:1543:ARG:HH22	1.42	0.85
2:D:1909:MET:HE2	2:D:1938:PHE:HE2	1.04	0.85
1:A:443:PHE:HA	1:A:505:ARG:HH11	1.41	0.85
1:A:1365:ARG:HG2	1:A:1366:GLN:H	1.41	0.85
1:C:945:LYS:HG2	1:C:956:HIS:HA	1.56	0.85
2:D:2209:VAL:CG1	2:D:2212:HIS:HB2	2.06	0.85
2:D:2279:HIS:HB3	2:D:2423:LYS:CE	2.06	0.85
2:D:2680:LEU:HD12	2:D:2681:THR:N	1.91	0.85
1:A:239:GLU:OE2	1:A:819:SER:HB3	1.76	0.85
1:A:246:GLU:HB3	1:A:247:PRO:HA	1.55	0.85
1:A:373:LEU:HD12	1:A:403:HIS:CE1	2.11	0.85
1:A:748:LYS:CE	1:A:797:GLU:OE1	2.25	0.85
1:A:1515:TYR:CZ	1:A:1519:PHE:CB	2.58	0.85
2:B:1706:ALA:HB1	2:B:1866:HIS:HA	1.56	0.85
1:C:1102:PRO:O	1:C:1105:VAL:HG22	1.77	0.85
1:A:234:MET:HE1	1:A:241:LEU:HD23	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2345:PRO:HA	2:B:2348:VAL:HG13	1.55	0.85
1:C:443:PHE:HA	1:C:505:ARG:HH11	1.41	0.85
1:A:590:ASP:OD1	1:A:657:HIS:CE1	2.29	0.85
1:A:629:PHE:CD1	1:A:633:HIS:HE1	1.95	0.85
2:B:1707:LEU:HD22	2:B:1709:PRO:HD2	1.56	0.85
2:B:2354:LEU:HD12	2:B:2356:TYR:CE1	2.12	0.85
2:B:3318:VAL:HG12	2:B:3320:VAL:CG2	2.05	0.85
2:D:1745:LEU:HD12	2:D:1754:LEU:CD2	2.06	0.85
2:D:3275:LYS:HE3	2:D:3282:LEU:CD1	2.06	0.85
1:A:26:LEU:CA	1:A:83:LYS:HD2	2.07	0.85
1:A:482:HIS:HA	1:A:487:PHE:HD2	1.41	0.85
1:A:931:THR:HA	1:A:991:ILE:HG21	1.59	0.85
1:A:1244:GLU:HG3	1:A:1473:LYS:O	1.77	0.85
2:B:2627:THR:HG22	2:B:2683:TYR:CB	2.07	0.85
1:C:60:HIS:CD2	1:C:65:PHE:HE2	1.94	0.85
1:C:179:HIS:ND1	1:C:213:VAL:HG11	1.90	0.85
1:C:1622:PHE:CZ	1:C:1646:ILE:HD12	2.10	0.85
2:D:2067:TYR:CD2	2:D:2069:PRO:HD3	2.12	0.85
2:D:2714:LEU:CD2	2:D:2778:ILE:HG23	2.04	0.85
1:A:516:TRP:CZ2	1:A:566:LEU:HG	2.11	0.85
1:A:1605:LEU:HD13	1:A:1606:ASP:N	1.91	0.85
2:B:2254:VAL:HG12	2:B:2433:PHE:CD1	2.09	0.85
2:B:3275:LYS:HE3	2:B:3282:LEU:CD1	2.06	0.85
1:C:373:LEU:HD12	1:C:403:HIS:CE1	2.11	0.85
1:C:590:ASP:OD1	1:C:657:HIS:CE1	2.29	0.85
1:C:1142:PHE:CD1	1:C:1195:ILE:HG21	2.11	0.85
1:A:583:LEU:CD1	1:A:718:MET:HE2	2.07	0.84
2:B:1880:GLN:HE22	2:B:1884:ILE:HG23	1.39	0.84
2:B:1909:MET:CE	2:B:1938:PHE:HE2	1.79	0.84
2:B:3160:LEU:HD13	2:B:3162:ASN:H	1.38	0.84
1:C:1244:GLU:HG3	1:C:1473:LYS:O	1.77	0.84
2:D:1880:GLN:HE22	2:D:1884:ILE:HG23	1.39	0.84
1:A:546:SER:CA	1:A:558:THR:HG21	2.07	0.84
1:A:1254:SER:OG	1:A:1522:ALA:CB	2.24	0.84
2:B:2228:THR:HG23	2:B:2231:GLY:N	1.92	0.84
2:B:3318:VAL:CG1	2:B:3320:VAL:HG22	2.07	0.84
1:C:482:HIS:HA	1:C:487:PHE:HD2	1.41	0.84
1:C:1189:ARG:HE	2:D:2431:ARG:HG2	1.41	0.84
1:C:1515:TYR:HA	1:C:1519:PHE:HD2	1.42	0.84
1:A:1142:PHE:CD1	1:A:1195:ILE:HG21	2.11	0.84
1:A:1228:LEU:HD23	1:A:1229:PHE:H	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LEU:HD12	1:A:1424:HIS:N	1.92	0.84
1:A:1539:MET:HA	1:A:1539:MET:HE3	1.58	0.84
2:B:1714:PRO:O	2:B:1719:ARG:CZ	2.25	0.84
2:B:1747:LYS:NZ	2:D:2094:ARG:NE	2.24	0.84
2:B:3243:PRO:CD	2:D:3354:PRO:HB3	2.07	0.84
1:C:1161:ILE:HB	1:C:1198:LYS:HZ1	1.42	0.84
1:C:1409:GLU:OE2	1:C:1544:LYS:NZ	2.09	0.84
1:C:1618:LEU:HG	2:D:1906:VAL:HG11	1.57	0.84
2:D:1768:GLU:HA	2:D:1771:THR:HG22	1.59	0.84
2:D:2627:THR:HG22	2:D:2683:TYR:CB	2.07	0.84
2:D:3320:VAL:HG12	2:D:3321:LYS:H	1.41	0.84
1:A:721:GLU:O	1:A:724:GLN:HG2	1.77	0.84
1:A:997:LEU:O	1:A:1000:GLU:HG2	1.76	0.84
2:B:2503:GLY:CA	2:B:2588:VAL:HB	2.07	0.84
1:C:234:MET:HE1	1:C:241:LEU:HD23	1.59	0.84
2:D:1714:PRO:O	2:D:1719:ARG:CZ	2.25	0.84
1:A:745:ILE:HD11	1:A:798:VAL:CG1	2.08	0.84
2:B:2067:TYR:CD2	2:B:2069:PRO:HD3	2.12	0.84
2:B:2180:HIS:HA	2:B:2225:PHE:CE2	2.13	0.84
1:C:57:CYS:SG	1:C:247:PRO:HD3	2.18	0.84
1:C:583:LEU:CD1	1:C:718:MET:HE2	2.07	0.84
1:C:745:ILE:HD11	1:C:798:VAL:HG11	1.59	0.84
1:C:853:LEU:HB3	1:C:959:TRP:HZ2	1.40	0.84
1:C:1515:TYR:HE2	1:C:1521:TYR:HB2	1.40	0.84
2:D:2124:LEU:HD13	2:D:2125:PRO:CD	2.08	0.84
2:D:2761:TYR:HA	2:D:2764:PHE:CD1	2.11	0.84
2:B:1694:SER:HA	2:D:2101:TYR:CE2	2.12	0.84
2:B:1747:LYS:HZ3	2:D:2094:ARG:HE	1.25	0.84
2:D:2354:LEU:HD12	2:D:2356:TYR:CE1	2.12	0.84
2:D:2687:THR:CG2	2:D:2690:TYR:HB2	2.08	0.84
1:A:1102:PRO:O	1:A:1105:VAL:HG22	1.77	0.84
1:A:1618:LEU:HD11	2:B:1906:VAL:HG21	1.59	0.84
2:B:1768:GLU:HA	2:B:1771:THR:HG22	1.59	0.84
2:B:2221:GLN:HG2	2:B:2266:LEU:HD13	1.58	0.84
2:B:2502:HIS:CE1	2:B:3128:HIS:NE2	2.46	0.84
1:C:80:LEU:HB3	1:C:85:ARG:HB2	1.57	0.84
1:C:310:LYS:HZ3	1:C:351:LYS:HE2	1.43	0.84
1:C:748:LYS:CE	1:C:797:GLU:OE1	2.25	0.84
1:C:1249:GLN:C	1:C:1470:ARG:HH21	1.84	0.84
1:C:1423:LEU:HD12	1:C:1424:HIS:N	1.92	0.84
1:C:1515:TYR:HE2	1:C:1521:TYR:CB	1.88	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2275:LEU:HD21	2:D:2284:ASP:OD2	1.78	0.84
1:A:1657:THR:CA	2:B:1901:GLU:OE1	2.26	0.84
2:B:2279:HIS:HB3	2:B:2423:LYS:CE	2.06	0.84
1:C:1275:ALA:O	1:C:1278:LEU:HG	1.78	0.84
1:A:749:THR:CG2	1:A:751:ASP:HB2	2.08	0.84
1:A:749:THR:HG21	1:A:751:ASP:HB2	1.58	0.84
1:A:895:VAL:CG2	1:A:898:MET:HB2	2.08	0.84
1:A:907:LEU:HD21	1:A:1105:VAL:HG12	1.58	0.84
1:A:1078:ARG:CB	2:B:2457:PRO:HD3	2.08	0.84
1:A:1133:LEU:O	1:A:1136:ILE:HG22	1.78	0.84
2:B:1815:SER:HB3	2:B:1820:HIS:CE1	2.13	0.84
2:B:2195:TRP:CD1	2:D:1695:SER:OG	2.29	0.84
2:B:2300:VAL:HG13	2:B:2368:LEU:CD2	2.08	0.84
1:C:1611:LEU:HA	1:C:1614:ASN:HD21	1.41	0.84
2:D:2087:ASP:O	2:D:2090:THR:HG22	1.78	0.84
2:D:2522:ALA:O	2:D:2526:VAL:HG23	1.78	0.84
2:D:2631:ARG:HE	2:D:2679:GLY:HA2	1.43	0.84
2:D:3042:GLN:OE1	2:D:3049:SER:HB3	1.78	0.84
1:A:77:GLU:HA	1:A:80:LEU:HD23	1.60	0.84
1:A:89:LEU:HG	1:A:89:LEU:O	1.77	0.84
1:A:344:LEU:HD13	1:A:345:GLY:N	1.93	0.84
1:A:666:HIS:HD2	1:A:686:ALA:HB3	1.43	0.84
1:A:1319:TRP:HA	1:A:1490:LEU:CD2	2.08	0.84
2:B:1768:GLU:HA	2:B:1771:THR:CG2	2.08	0.84
2:B:1805:ASP:HB2	2:B:1858:GLU:HG2	1.60	0.84
2:B:2124:LEU:HD13	2:B:2125:PRO:CD	2.08	0.84
2:B:3044:LYS:HD2	2:B:3180:HIS:NE2	1.93	0.84
2:B:3306:ILE:HG22	2:B:3329:MET:HG2	1.58	0.84
1:C:217:PHE:HE2	1:C:221:GLN:HE21	1.26	0.84
1:C:493:LEU:HD21	1:C:682:THR:HB	1.58	0.84
1:C:721:GLU:O	1:C:724:GLN:HG2	1.77	0.84
2:D:2506:LYS:HG2	2:D:2769:ASP:CB	2.05	0.84
2:D:3044:LYS:HD2	2:D:3180:HIS:NE2	1.93	0.84
1:A:11:LEU:HD11	1:A:90:PRO:HG2	1.59	0.83
1:A:1157:VAL:HG22	1:A:1216:VAL:CG1	2.08	0.83
1:A:1328:GLU:OE1	1:A:1521:TYR:HD2	1.56	0.83
2:B:2275:LEU:HD21	2:B:2284:ASP:OD2	1.78	0.83
2:B:3347:ALA:CB	2:D:3315:PRO:CG	2.56	0.83
1:C:248:PHE:HB3	1:C:258:THR:HG22	1.57	0.83
1:C:1463:ALA:HA	1:C:1466:GLN:NE2	1.91	0.83
2:D:1768:GLU:HA	2:D:1771:THR:CG2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1985:SER:CB	2:D:2050:TYR:CZ	2.61	0.83
2:D:2180:HIS:HA	2:D:2225:PHE:CE2	2.13	0.83
1:A:408:GLY:O	1:A:653:PRO:HG3	1.79	0.83
1:A:411:ASP:HB3	1:A:655:ARG:CB	2.07	0.83
1:A:604:THR:HG23	1:A:605:ILE:HD13	1.60	0.83
1:A:745:ILE:HD11	1:A:798:VAL:HG11	1.59	0.83
1:A:1254:SER:CB	1:A:1522:ALA:HB2	2.08	0.83
1:A:1325:VAL:HG11	1:A:1519:PHE:CD1	2.13	0.83
2:B:1695:SER:OG	2:D:2195:TRP:HB3	1.77	0.83
2:B:2240:ALA:HA	2:B:2259:MET:HE1	1.60	0.83
2:B:2929:LYS:HA	2:B:2932:ASN:HD21	1.43	0.83
1:C:546:SER:CA	1:C:558:THR:HG21	2.08	0.83
1:C:626:ASP:OD1	1:C:628:LEU:N	2.10	0.83
1:C:749:THR:CG2	1:C:751:ASP:HB2	2.08	0.83
1:C:1257:ARG:HB2	1:C:1521:TYR:HD1	1.40	0.83
2:D:1865:LEU:HD22	2:D:2013:GLU:CG	2.07	0.83
2:D:2149:TRP:HA	2:D:2326:MET:SD	2.19	0.83
2:D:2300:VAL:HG13	2:D:2368:LEU:CD2	2.08	0.83
1:A:197:LEU:HD23	1:A:344:LEU:HD12	1.60	0.83
1:A:1409:GLU:OE2	1:A:1544:LYS:NZ	2.09	0.83
2:B:2101:TYR:CE1	2:D:1693:HIS:HB3	2.11	0.83
2:B:2195:TRP:CB	2:D:1922:TYR:CA	2.57	0.83
2:B:2206:ARG:HH21	2:B:2218:ARG:HG2	1.42	0.83
2:B:2522:ALA:O	2:B:2526:VAL:HG23	1.78	0.83
2:B:3269:LYS:HE3	2:B:3270:PHE:N	1.93	0.83
1:C:197:LEU:HD23	1:C:344:LEU:HD12	1.60	0.83
1:C:1515:TYR:HD1	1:C:1519:PHE:CD2	1.93	0.83
2:D:3265:ASP:HB2	2:D:3292:ILE:CD1	2.09	0.83
1:A:973:ARG:HA	1:A:1026:GLN:NE2	1.93	0.83
1:A:1406:TYR:HA	1:A:1543:ARG:HH22	1.42	0.83
1:A:1662:THR:HB	2:B:1893:ARG:CB	2.08	0.83
2:B:2687:THR:CG2	2:B:2690:TYR:HB2	2.08	0.83
1:C:516:TRP:CD2	1:C:605:ILE:HD12	2.14	0.83
1:C:629:PHE:CD1	1:C:633:HIS:HE1	1.95	0.83
1:C:1161:ILE:HB	1:C:1198:LYS:NZ	1.93	0.83
1:C:1319:TRP:HA	1:C:1490:LEU:CD2	2.08	0.83
2:D:2240:ALA:HA	2:D:2259:MET:HE1	1.60	0.83
1:A:649:ARG:NH1	1:A:716:GLU:HG2	1.93	0.83
1:A:1591:GLY:O	1:A:1594:GLU:HG2	1.78	0.83
1:A:1618:LEU:HD22	1:A:1648:PHE:CG	2.13	0.83
2:B:3042:GLN:OE1	2:B:3049:SER:HB3	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:810:LEU:HD21	1:C:814:LEU:HD21	1.61	0.83
1:C:1254:SER:CB	1:C:1522:ALA:HB2	2.08	0.83
1:A:647:GLN:HB3	1:A:652:LYS:HB3	1.61	0.83
2:B:1865:LEU:HD22	2:B:2013:GLU:CG	2.07	0.83
2:B:3082:ILE:HB	2:B:3090:MET:HE2	1.60	0.83
1:C:482:HIS:HD2	1:C:487:PHE:CE2	1.96	0.83
1:C:839:ARG:HD2	1:C:1116:TYR:CE1	2.13	0.83
1:C:931:THR:HA	1:C:991:ILE:HG21	1.59	0.83
1:C:1328:GLU:OE1	1:C:1521:TYR:HD2	1.57	0.83
1:C:1363:ASN:HB2	1:C:1365:ARG:CZ	2.07	0.83
2:D:2228:THR:HG23	2:D:2231:GLY:N	1.92	0.83
2:D:2604:THR:HA	2:D:2607:THR:HG22	1.61	0.83
1:A:626:ASP:OD1	1:A:628:LEU:N	2.10	0.83
1:A:853:LEU:HB3	1:A:959:TRP:HZ2	1.40	0.83
1:A:1099:HIS:CE1	1:A:1111:ASN:HB3	2.14	0.83
1:A:1363:ASN:HB2	1:A:1365:ARG:CZ	2.07	0.83
1:A:1501:GLU:O	1:A:1504:LYS:HG2	1.78	0.83
1:A:1515:TYR:HE2	1:A:1521:TYR:HB2	1.41	0.83
2:B:1874:PHE:CD2	2:B:1878:HIS:HE1	1.97	0.83
2:B:2776:MET:HG2	2:B:2780:LYS:HE3	1.60	0.83
2:B:3076:ASN:HB3	2:B:3234:VAL:HG13	1.61	0.83
2:B:3211:THR:HA	2:B:3238:GLY:HA2	1.60	0.83
1:C:895:VAL:CG2	1:C:898:MET:HB2	2.08	0.83
1:C:1022:VAL:HG21	1:C:1041:LEU:CD2	2.08	0.83
2:D:2596:THR:HG22	2:D:2774:HIS:HE1	1.41	0.83
1:A:402:VAL:HG23	1:A:657:HIS:O	1.78	0.83
1:A:493:LEU:HD22	1:A:670:PHE:CE1	2.14	0.83
1:A:1249:GLN:NE2	1:A:1476:TYR:CD1	2.46	0.83
1:A:1515:TYR:CE1	1:A:1519:PHE:HB2	2.11	0.83
2:B:2087:ASP:O	2:B:2090:THR:HG22	1.78	0.83
2:B:2179:ILE:HD11	2:B:2182:ILE:HA	1.60	0.83
2:B:2571:ARG:NH2	2:B:2761:TYR:HB3	1.94	0.83
1:C:1133:LEU:O	1:C:1136:ILE:HG22	1.78	0.83
1:C:1591:GLY:O	1:C:1594:GLU:HG2	1.78	0.83
2:D:1874:PHE:CD2	2:D:1878:HIS:HE1	1.97	0.83
2:D:3211:THR:HA	2:D:3238:GLY:HA2	1.61	0.83
1:A:383:LEU:HD23	1:A:391:LEU:HD22	1.59	0.83
1:A:1022:VAL:HG21	1:A:1041:LEU:CD2	2.08	0.83
1:A:1249:GLN:HG3	1:A:1476:TYR:CG	2.13	0.83
2:B:3265:ASP:HB2	2:B:3292:ILE:CD1	2.09	0.83
2:D:1757:TRP:CE3	2:D:1873:LEU:CD1	2.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1214:TYR:CD2	1:A:1226:LYS:HD3	2.13	0.83
1:A:1275:ALA:O	1:A:1278:LEU:HG	1.78	0.83
1:A:1611:LEU:HA	1:A:1614:ASN:HD21	1.41	0.83
2:B:2101:TYR:CZ	2:D:1694:SER:HA	2.14	0.83
2:B:2149:TRP:HA	2:B:2326:MET:SD	2.19	0.83
1:C:383:LEU:HD23	1:C:391:LEU:HD22	1.59	0.83
1:C:493:LEU:HD22	1:C:670:PHE:CE1	2.14	0.83
1:C:749:THR:HG21	1:C:751:ASP:HB2	1.58	0.83
1:C:895:VAL:CG2	1:C:898:MET:HE3	2.05	0.83
1:C:907:LEU:HD21	1:C:1105:VAL:HG12	1.58	0.83
2:D:2206:ARG:HH21	2:D:2218:ARG:HG2	1.42	0.83
2:D:2929:LYS:HA	2:D:2932:ASN:HD21	1.43	0.83
2:D:3341:ASN:HB3	2:D:3361:PHE:HB3	1.59	0.83
1:A:57:CYS:SG	1:A:247:PRO:HD3	2.18	0.82
1:A:1515:TYR:HA	1:A:1519:PHE:HD2	1.42	0.82
2:B:1770:LEU:HD21	2:B:1876:ILE:HG13	1.61	0.82
2:B:2124:LEU:CB	2:B:2279:HIS:HB2	2.09	0.82
2:B:3205:VAL:CG2	2:B:3288:PRO:HG2	2.08	0.82
2:B:3366:MET:HG2	2:B:3367:TYR:H	1.40	0.82
1:C:402:VAL:HG23	1:C:657:HIS:O	1.78	0.82
1:C:411:ASP:HB3	1:C:655:ARG:CB	2.07	0.82
1:C:604:THR:HG23	1:C:605:ILE:HD13	1.60	0.82
1:C:649:ARG:NH1	1:C:716:GLU:HG2	1.93	0.82
1:C:1087:SER:C	1:C:1097:LYS:HZ2	1.82	0.82
1:C:1273:LEU:HB3	1:C:1374:PHE:HZ	1.43	0.82
2:B:2155:LEU:CD2	2:B:2354:LEU:HD13	2.10	0.82
2:B:2970:PHE:HD2	2:B:2971:PRO:HD3	1.44	0.82
2:B:3218:TYR:O	2:B:3271:ARG:HB2	1.79	0.82
1:C:973:ARG:HA	1:C:1026:GLN:NE2	1.94	0.82
1:C:1249:GLN:HG3	1:C:1476:TYR:CG	2.13	0.82
1:C:1325:VAL:HG11	1:C:1519:PHE:CD1	2.13	0.82
1:C:1618:LEU:HD22	1:C:1648:PHE:CG	2.13	0.82
2:D:1811:LEU:HG	2:D:1853:TRP:CZ3	2.13	0.82
2:D:1815:SER:HB3	2:D:1820:HIS:CE1	2.13	0.82
2:D:2099:LEU:HB3	2:D:2204:PHE:HZ	1.44	0.82
2:D:3269:LYS:HE3	2:D:3270:PHE:N	1.93	0.82
1:A:493:LEU:HD21	1:A:682:THR:HB	1.58	0.82
1:A:595:GLU:OE2	1:A:599:GLU:HB2	1.79	0.82
1:A:632:HIS:O	1:A:636:VAL:HG23	1.79	0.82
1:C:77:GLU:HA	1:C:80:LEU:HD23	1.60	0.82
1:C:165:GLN:NE2	1:C:171:PHE:HA	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:408:GLY:O	1:C:653:PRO:HG3	1.79	0.82
1:C:1214:TYR:CD2	1:C:1226:LYS:HD3	2.13	0.82
1:C:1249:GLN:NE2	1:C:1476:TYR:CD1	2.46	0.82
1:C:1515:TYR:CE1	1:C:1519:PHE:HB2	2.12	0.82
2:D:1709:PRO:O	2:D:1719:ARG:HD3	1.80	0.82
2:D:3318:VAL:CG1	2:D:3320:VAL:HG22	2.07	0.82
1:A:426:LYS:HB3	1:A:430:ASP:OD2	1.78	0.82
1:A:486:ILE:HB	1:A:662:LEU:CD2	2.08	0.82
1:A:1273:LEU:HB3	1:A:1374:PHE:HZ	1.43	0.82
2:B:1985:SER:CB	2:B:2050:TYR:CZ	2.61	0.82
2:B:2401:PHE:HD2	2:B:2413:GLY:HA3	1.41	0.82
2:B:2494:HIS:CE1	2:B:3125:LYS:HZ1	1.90	0.82
2:B:3341:ASN:HB3	2:B:3361:PHE:HB3	1.59	0.82
1:C:486:ILE:HB	1:C:662:LEU:CD2	2.08	0.82
1:C:745:ILE:HD11	1:C:798:VAL:CG1	2.08	0.82
1:C:1233:SER:HA	2:D:2320:SER:CB	2.08	0.82
1:C:1248:TYR:HA	1:C:1470:ARG:HD2	1.30	0.82
1:C:1365:ARG:H	1:C:1365:ARG:HD3	1.44	0.82
2:D:1805:ASP:HB2	2:D:1858:GLU:HG2	1.60	0.82
2:D:3082:ILE:HB	2:D:3090:MET:HE2	1.60	0.82
1:A:1153:LYS:HB3	1:A:1178:GLY:HA3	1.60	0.82
1:A:1280:ILE:HA	1:A:1283:ASP:OD2	1.79	0.82
2:B:2494:HIS:CE1	2:B:3125:LYS:HE2	2.14	0.82
1:C:765:GLY:O	1:C:768:GLU:HG2	1.79	0.82
1:C:1233:SER:CA	2:D:2320:SER:CB	2.57	0.82
2:B:1811:LEU:HG	2:B:1853:TRP:CZ3	2.13	0.82
2:B:2195:TRP:CB	2:D:1922:TYR:CD1	2.05	0.82
2:B:2202:ASN:OD1	2:B:2204:PHE:HB2	1.79	0.82
2:B:2506:LYS:HG2	2:B:2769:ASP:CB	2.05	0.82
1:C:11:LEU:HD11	1:C:90:PRO:HG2	1.59	0.82
1:C:344:LEU:HD13	1:C:345:GLY:N	1.93	0.82
1:C:479:CYS:SG	1:C:669:PRO:HD3	2.20	0.82
2:D:2479:ALA:HB1	2:D:2480:PRO:HD2	1.62	0.82
2:D:2571:ARG:NH2	2:D:2761:TYR:HB3	1.94	0.82
2:D:2622:LEU:HG	2:D:2683:TYR:CE1	2.15	0.82
2:D:2970:PHE:HD2	2:D:2971:PRO:HD3	1.44	0.82
1:A:1030:MET:HE1	1:A:1042:PHE:HA	1.58	0.82
1:A:1416:PHE:CE2	1:A:1420:LEU:HD22	2.15	0.82
2:B:2086:HIS:HB3	2:B:2090:THR:CG2	2.09	0.82
2:B:2099:LEU:HB3	2:B:2204:PHE:HZ	1.44	0.82
2:D:1770:LEU:HD21	2:D:1876:ILE:HG13	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2776:MET:HG2	2:D:2780:LYS:HE3	1.60	0.82
1:A:802:ILE:HD11	1:A:815:ILE:HG12	1.62	0.82
2:B:2088:LEU:HD12	2:B:2089:SER:N	1.94	0.82
2:B:2464:VAL:O	2:B:2471:VAL:HG13	1.80	0.82
2:B:2942:ILE:HD11	2:B:2980:GLN:HG2	1.59	0.82
1:C:481:VAL:CG2	1:C:486:ILE:HG23	2.10	0.82
1:C:1501:GLU:O	1:C:1504:LYS:HG2	1.78	0.82
1:C:1515:TYR:CZ	1:C:1519:PHE:CB	2.59	0.82
2:D:2086:HIS:HB3	2:D:2090:THR:CG2	2.09	0.82
2:D:2155:LEU:CD2	2:D:2354:LEU:HD13	2.10	0.82
2:D:2399:VAL:O	2:D:2415:GLN:HG3	1.80	0.82
1:A:469:PRO:HG2	1:A:476:ARG:HA	1.62	0.82
1:A:479:CYS:SG	1:A:669:PRO:HD3	2.20	0.82
1:A:516:TRP:CD2	1:A:605:ILE:HD12	2.14	0.82
2:B:1697:GLY:O	2:B:1701:ILE:HG12	1.79	0.82
2:B:2437:ILE:CD1	2:B:2441:LEU:HD21	2.09	0.82
1:C:638:ARG:HG2	1:C:702:TYR:CE1	2.15	0.82
1:C:1153:LYS:HB3	1:C:1178:GLY:HA3	1.60	0.82
2:D:2464:VAL:O	2:D:2471:VAL:HG13	1.79	0.82
2:D:2472:LEU:HD13	2:D:2473:PRO:N	1.94	0.82
1:A:5:ARG:HD3	1:A:89:LEU:HD21	1.61	0.82
1:A:94:TRP:HZ2	1:A:185:LEU:HD22	1.45	0.82
1:A:285:MET:HE3	1:A:290:LEU:CD2	2.10	0.82
1:A:482:HIS:HD2	1:A:487:PHE:CE2	1.96	0.82
1:A:729:TYR:HB2	1:A:821:ILE:HD11	1.62	0.82
1:A:1468:LEU:HD23	1:A:1533:ILE:CG2	2.08	0.82
2:B:1709:PRO:O	2:B:1719:ARG:HD3	1.80	0.82
1:C:1091:ASN:O	1:C:1097:LYS:CE	2.28	0.82
1:C:1157:VAL:HG22	1:C:1216:VAL:CG1	2.08	0.82
1:C:1477:ARG:HG3	1:C:1513:PHE:CB	2.10	0.82
2:D:2155:LEU:CG	2:D:2354:LEU:HD13	2.10	0.82
1:A:165:GLN:NE2	1:A:171:PHE:HA	1.94	0.81
1:A:182:ILE:HD12	1:A:209:HIS:CE1	2.15	0.81
1:A:810:LEU:HD21	1:A:814:LEU:HD21	1.61	0.81
1:A:1161:ILE:HB	1:A:1198:LYS:NZ	1.93	0.81
1:A:1205:HIS:HD2	1:A:1207:GLU:H	1.24	0.81
1:A:1422:ILE:HG13	1:A:1603:TYR:CE1	2.15	0.81
2:B:2100:LYS:HE2	2:B:2203:PRO:HD3	1.62	0.81
2:B:2124:LEU:CD2	2:B:2125:PRO:HA	2.04	0.81
1:C:182:ILE:HD12	1:C:209:HIS:CE1	2.15	0.81
1:C:1515:TYR:OH	1:C:1521:TYR:HD2	1.57	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1985:SER:HB3	2:D:2050:TYR:HE2	0.91	0.81
2:D:2446:ILE:HG23	2:D:2450:ASP:OD1	1.79	0.81
2:D:3341:ASN:CB	2:D:3361:PHE:HB3	2.10	0.81
1:A:638:ARG:HG2	1:A:702:TYR:CE1	2.15	0.81
1:A:1075:THR:HB	2:B:2482:ILE:HG22	1.62	0.81
1:A:1409:GLU:CD	1:A:1544:LYS:CE	2.54	0.81
1:A:1657:THR:OG1	2:B:1900:SER:CB	2.28	0.81
2:B:1866:HIS:NE2	2:B:2012:LYS:HG2	1.95	0.81
2:B:2096:ILE:HG12	2:B:2185:LEU:CD1	2.08	0.81
2:B:2221:GLN:O	2:B:2224:LEU:HD22	1.80	0.81
2:B:2479:ALA:HB1	2:B:2480:PRO:HD2	1.62	0.81
1:C:256:PRO:HA	1:C:259:ASN:HD22	1.45	0.81
1:C:426:LYS:HB3	1:C:430:ASP:OD2	1.78	0.81
1:C:560:ARG:CD	1:C:609:THR:O	2.25	0.81
1:C:1082:GLN:HB3	1:C:1083:PRO:HA	1.62	0.81
1:C:1099:HIS:CE1	1:C:1111:ASN:HB3	2.14	0.81
1:C:1205:HIS:HD2	1:C:1207:GLU:H	1.24	0.81
2:D:1697:GLY:O	2:D:1701:ILE:HG12	1.79	0.81
1:A:582:ILE:HG21	1:A:639:LEU:HD23	1.62	0.81
1:A:765:GLY:O	1:A:768:GLU:HG2	1.79	0.81
1:A:839:ARG:HD2	1:A:1116:TYR:CE1	2.13	0.81
1:A:1091:ASN:O	1:A:1097:LYS:CE	2.28	0.81
2:B:2399:VAL:O	2:B:2415:GLN:HG3	1.80	0.81
2:B:2446:ILE:HG23	2:B:2450:ASP:OD1	1.79	0.81
2:B:2472:LEU:HD13	2:B:2473:PRO:N	1.94	0.81
1:C:5:ARG:NH1	1:C:89:LEU:HD11	1.96	0.81
1:C:89:LEU:HG	1:C:89:LEU:O	1.77	0.81
1:C:582:ILE:HG21	1:C:639:LEU:HD23	1.61	0.81
1:C:1079:GLU:H	2:D:2456:GLU:HG3	1.41	0.81
1:C:1244:GLU:HG2	1:C:1245:GLY:N	1.95	0.81
1:C:1280:ILE:HA	1:C:1283:ASP:OD2	1.79	0.81
1:C:1468:LEU:HD23	1:C:1533:ILE:CG2	2.08	0.81
1:C:1515:TYR:HE2	1:C:1521:TYR:C	1.89	0.81
2:D:2124:LEU:CB	2:D:2279:HIS:HB2	2.09	0.81
2:D:2221:GLN:O	2:D:2224:LEU:HD22	1.80	0.81
2:D:3187:LEU:O	2:D:3190:VAL:HG12	1.80	0.81
2:D:3218:TYR:O	2:D:3271:ARG:HB2	1.80	0.81
2:D:3310:LYS:HA	2:D:3387:ASN:OD1	1.81	0.81
2:D:3322:ARG:HG3	2:D:3371:SER:HB3	1.62	0.81
1:A:1365:ARG:HG2	1:A:1366:GLN:N	1.91	0.81
1:A:1515:TYR:HE2	1:A:1521:TYR:C	1.88	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1657:THR:CB	2:B:1901:GLU:OE1	2.29	0.81
2:B:2387:GLY:HA3	2:B:2481:THR:CG2	2.11	0.81
1:C:1647:LEU:HD12	1:C:1648:PHE:H	1.45	0.81
2:D:2437:ILE:CD1	2:D:2441:LEU:HD21	2.09	0.81
2:D:2983:ARG:HD3	2:D:3152:ASP:OD2	1.80	0.81
1:A:217:PHE:HE2	1:A:221:GLN:HE21	1.26	0.81
1:A:256:PRO:HA	1:A:259:ASN:HD22	1.45	0.81
2:B:2101:TYR:CG	2:D:1693:HIS:CB	2.37	0.81
2:B:2578:GLU:OE2	2:B:2589:GLY:HA2	1.81	0.81
2:B:3217:VAL:HG13	2:B:3230:ALA:HB3	1.62	0.81
1:C:632:HIS:O	1:C:636:VAL:HG23	1.79	0.81
1:C:1416:PHE:CE2	1:C:1420:LEU:HD22	2.15	0.81
2:D:2088:LEU:HD12	2:D:2089:SER:N	1.94	0.81
2:D:2566:PHE:HD1	2:D:2567:PRO:HD3	1.46	0.81
2:D:3205:VAL:CG2	2:D:3288:PRO:HG2	2.08	0.81
1:A:464:LEU:HD13	1:A:465:PRO:N	1.96	0.81
1:A:906:ARG:NH1	1:A:1108:TYR:HB3	1.96	0.81
1:A:1082:GLN:HB3	1:A:1083:PRO:HA	1.62	0.81
2:B:1773:SER:HA	2:B:1789:ILE:HD12	1.62	0.81
2:B:1778:PRO:HB2	2:D:1817:LYS:HD3	1.62	0.81
2:B:1922:TYR:HD1	2:D:2195:TRP:CB	1.92	0.81
2:B:2604:THR:HA	2:B:2607:THR:HG22	1.61	0.81
2:B:2622:LEU:HG	2:B:2683:TYR:CE1	2.15	0.81
1:C:469:PRO:HG2	1:C:476:ARG:HA	1.62	0.81
1:C:1242:HIS:CB	1:C:1476:TYR:CE1	2.63	0.81
2:D:2942:ILE:HD11	2:D:2980:GLN:HG2	1.59	0.81
2:D:2974:HIS:O	2:D:2978:THR:HG23	1.80	0.81
2:D:3340:LEU:HG	2:D:3341:ASN:HD22	1.44	0.81
1:A:481:VAL:CG2	1:A:486:ILE:HG23	2.10	0.81
1:A:1442:LEU:HD23	1:A:1589:LEU:HD12	1.61	0.81
1:A:1477:ARG:HG3	1:A:1513:PHE:CB	2.10	0.81
2:B:2494:HIS:HB3	2:B:3124:VAL:HG13	1.61	0.81
2:B:3275:LYS:HE3	2:B:3282:LEU:HD13	1.62	0.81
2:B:3340:LEU:HG	2:B:3341:ASN:HD22	1.44	0.81
1:C:910:VAL:HG11	1:C:1112:PHE:HD2	1.45	0.81
2:D:2186:PHE:CE1	2:D:2289:ILE:HG12	2.16	0.81
2:D:2387:GLY:HA3	2:D:2481:THR:CG2	2.10	0.81
1:A:1010:GLN:HA	1:A:1191:PHE:CE1	2.16	0.81
1:C:89:LEU:H	1:C:89:LEU:HD23	1.46	0.81
1:C:548:VAL:HA	1:C:556:PRO:HD2	1.62	0.81
1:C:647:GLN:HB3	1:C:652:LYS:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1422:ILE:HG13	1:C:1603:TYR:CE1	2.15	0.81
2:D:1866:HIS:NE2	2:D:2012:LYS:HG2	1.96	0.81
1:A:412:PRO:CG	1:A:654:TYR:CB	2.59	0.81
1:A:1647:LEU:HD12	1:A:1648:PHE:H	1.45	0.81
2:B:1854:VAL:HG23	2:B:1862:ILE:HB	1.63	0.81
2:B:2566:PHE:HD1	2:B:2567:PRO:HD3	1.46	0.81
1:C:80:LEU:HB3	1:C:85:ARG:CB	2.11	0.81
1:C:440:ARG:HA	1:C:544:PHE:CE2	2.16	0.81
1:C:900:VAL:HG13	1:C:1081:LEU:HD11	1.62	0.81
2:D:1854:VAL:HG23	2:D:1862:ILE:HB	1.63	0.81
2:D:2100:LYS:HE2	2:D:2203:PRO:HD3	1.62	0.81
2:D:2179:ILE:HD11	2:D:2182:ILE:HA	1.60	0.81
2:D:2248:ASP:OD2	2:D:2431:ARG:NH1	2.14	0.81
2:D:3076:ASN:HB3	2:D:3234:VAL:HG13	1.61	0.81
1:A:1249:GLN:HG3	1:A:1476:TYR:CB	2.10	0.81
2:B:1865:LEU:CD2	2:B:2013:GLU:HG2	2.09	0.81
2:B:2631:ARG:HE	2:B:2679:GLY:HA2	1.43	0.81
2:B:3310:LYS:HA	2:B:3387:ASN:OD1	1.80	0.81
1:C:729:TYR:HB2	1:C:821:ILE:HD11	1.61	0.81
1:C:906:ARG:NH1	1:C:1108:TYR:HB3	1.96	0.81
1:C:1325:VAL:CG1	1:C:1515:TYR:HE1	1.94	0.81
1:C:1365:ARG:HG2	1:C:1366:GLN:N	1.91	0.81
1:C:1436:LYS:HD2	1:C:1437:TYR:CE1	2.15	0.81
2:D:2202:ASN:OD1	2:D:2204:PHE:HB2	1.79	0.81
2:D:3387:ASN:HD21	2:D:3389:LEU:HG	1.45	0.81
1:A:548:VAL:HA	1:A:556:PRO:HD2	1.62	0.80
1:A:694:TYR:HB2	1:A:700:TYR:HE1	1.45	0.80
1:A:1365:ARG:H	1:A:1365:ARG:HD3	1.44	0.80
2:B:2983:ARG:HD3	2:B:3152:ASP:OD2	1.80	0.80
1:C:285:MET:HE3	1:C:290:LEU:CD2	2.10	0.80
1:C:666:HIS:HD2	1:C:686:ALA:HB3	1.43	0.80
1:C:841:ASN:ND2	1:C:844:ARG:HB2	1.96	0.80
1:C:1353:PRO:HG2	1:C:1356:ILE:CG1	2.10	0.80
1:A:1161:ILE:HB	1:A:1198:LYS:HZ1	1.46	0.80
1:A:1436:LYS:HD2	1:A:1437:TYR:CE1	2.15	0.80
2:B:1757:TRP:CE3	2:B:1873:LEU:CD1	2.59	0.80
2:B:2155:LEU:CG	2:B:2354:LEU:HD13	2.10	0.80
2:B:2186:PHE:CE1	2:B:2289:ILE:HG12	2.16	0.80
2:B:2195:TRP:C	2:D:1922:TYR:HE1	1.88	0.80
2:B:2500:ALA:O	2:B:3126:PRO:O	2.00	0.80
1:C:486:ILE:CB	1:C:662:LEU:HD21	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:496:THR:HB	1:C:698:LEU:HD21	1.63	0.80
2:D:1714:PRO:HG2	2:D:1922:TYR:HE2	1.07	0.80
2:D:2029:THR:O	2:D:2033:MET:HG2	1.80	0.80
2:D:3142:HIS:HD2	2:D:3145:ASN:HD21	1.30	0.80
1:A:440:ARG:HA	1:A:544:PHE:CE2	2.16	0.80
2:B:2974:HIS:O	2:B:2978:THR:HG23	1.80	0.80
2:B:3347:ALA:HB1	2:D:3315:PRO:CG	2.12	0.80
1:C:1426:ALA:O	1:C:1430:LEU:HD13	1.82	0.80
1:C:1589:LEU:HD13	1:C:1590:GLY:N	1.96	0.80
1:C:1662:THR:HB	2:D:1893:ARG:HB2	1.62	0.80
2:D:1865:LEU:CD2	2:D:2013:GLU:HG2	2.09	0.80
2:D:2096:ILE:HG12	2:D:2185:LEU:CD1	2.08	0.80
2:D:2136:VAL:HB	2:D:2425:MET:HB2	1.63	0.80
1:A:305:ALA:CB	1:A:362:LEU:HD11	2.11	0.80
1:A:322:VAL:HG11	1:A:369:MET:HE1	1.64	0.80
1:A:1244:GLU:HG2	1:A:1245:GLY:N	1.95	0.80
2:B:1817:LYS:O	2:D:1676:LYS:CE	2.28	0.80
2:B:2127:LYS:HD3	2:B:2333:ILE:HD13	1.62	0.80
2:B:2136:VAL:HB	2:B:2425:MET:HB2	1.63	0.80
2:B:2950:ASN:HB3	2:B:2960:TYR:C	2.06	0.80
2:B:2980:GLN:OE1	2:B:3155:THR:HG21	1.81	0.80
2:B:3341:ASN:CB	2:B:3361:PHE:HB3	2.10	0.80
1:C:5:ARG:HD3	1:C:89:LEU:HD21	1.61	0.80
1:C:1153:LYS:CB	1:C:1178:GLY:HA3	2.11	0.80
2:D:1773:SER:HA	2:D:1789:ILE:HD12	1.62	0.80
2:D:2384:VAL:CG1	2:D:2437:ILE:HG23	2.07	0.80
2:D:2550:MET:HG3	2:D:2556:TYR:CE2	2.16	0.80
2:D:2627:THR:CG2	2:D:2683:TYR:HB2	2.11	0.80
2:D:3002:THR:HG21	2:D:3041:GLN:CD	2.06	0.80
2:D:3217:VAL:HG13	2:D:3230:ALA:HB3	1.62	0.80
2:D:3328:PHE:HE1	2:D:3364:GLY:HA2	1.42	0.80
1:A:508:THR:HG23	1:A:509:ILE:HG13	1.64	0.80
1:A:560:ARG:CD	1:A:609:THR:O	2.25	0.80
2:B:2384:VAL:HG13	2:B:2437:ILE:CG2	2.09	0.80
2:B:2542:HIS:HE1	2:B:2688:LEU:HD12	1.46	0.80
2:B:3002:THR:HG21	2:B:3041:GLN:CD	2.06	0.80
1:C:322:VAL:HG11	1:C:369:MET:HE1	1.64	0.80
1:C:1189:ARG:NE	2:D:2431:ARG:HG2	1.95	0.80
2:D:1714:PRO:CG	2:D:1922:TYR:CD2	2.65	0.80
1:A:5:ARG:NH1	1:A:89:LEU:HD11	1.96	0.80
1:A:373:LEU:HD12	1:A:403:HIS:ND1	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1515:TYR:OH	1:A:1521:TYR:HD2	1.62	0.80
2:B:1695:SER:HA	2:D:2195:TRP:CD1	2.17	0.80
2:B:1747:LYS:HE3	2:D:2094:ARG:HD2	1.61	0.80
2:B:1920:ALA:HB1	2:B:1921:PRO:HA	1.63	0.80
2:B:2195:TRP:HB3	2:D:1922:TYR:CA	2.10	0.80
1:C:595:GLU:OE2	1:C:599:GLU:HB2	1.79	0.80
1:C:1454:HIS:O	1:C:1457:THR:HG22	1.82	0.80
2:D:2670:HIS:ND1	2:D:2704:THR:HG21	1.96	0.80
1:A:256:PRO:HA	1:A:259:ASN:ND2	1.97	0.80
1:A:552:GLU:OE2	1:A:554:ASN:HB2	1.82	0.80
1:A:1262:ILE:HA	1:A:1265:LEU:HD23	1.64	0.80
1:A:1409:GLU:HB2	1:A:1543:ARG:NH2	1.97	0.80
2:B:3245:ALA:HB2	2:D:3352:LYS:NZ	1.97	0.80
1:C:305:ALA:CB	1:C:362:LEU:HD11	2.11	0.80
1:C:694:TYR:HB2	1:C:700:TYR:HE1	1.45	0.80
1:C:1010:GLN:HA	1:C:1191:PHE:CE1	2.16	0.80
1:C:1257:ARG:CG	1:C:1521:TYR:HE1	1.88	0.80
1:C:1409:GLU:CD	1:C:1544:LYS:CE	2.54	0.80
2:D:1925:ASN:ND2	2:D:1928:THR:HG23	1.97	0.80
2:D:2794:THR:CG2	2:D:2847:ILE:HG13	2.06	0.80
1:A:85:ARG:NH1	1:A:86:THR:HG22	1.97	0.80
1:A:1141:ARG:HG3	1:A:1143:PHE:CE1	2.16	0.80
1:A:1153:LYS:CB	1:A:1178:GLY:HA3	2.11	0.80
2:B:1711:CYS:HB2	2:B:1712:PRO:HD3	1.63	0.80
2:B:1714:PRO:CG	2:B:1922:TYR:CD2	2.65	0.80
2:B:1961:ASP:O	2:B:1964:VAL:HG22	1.82	0.80
2:B:2194:VAL:HG12	2:B:2196:ARG:N	1.96	0.80
2:B:2550:MET:HG3	2:B:2556:TYR:CE2	2.16	0.80
1:C:802:ILE:HD11	1:C:815:ILE:HG12	1.62	0.80
2:D:2091:LEU:HD11	2:D:2171:PRO:CG	2.10	0.80
1:A:80:LEU:HB3	1:A:85:ARG:CB	2.11	0.80
1:A:601:THR:O	1:A:604:THR:HG22	1.82	0.80
2:B:2094:ARG:HB3	2:D:1747:LYS:HZ2	1.47	0.80
2:B:3322:ARG:HG3	2:B:3371:SER:HB3	1.61	0.80
1:C:1249:GLN:HG3	1:C:1476:TYR:CB	2.11	0.80
1:C:1442:LEU:HD23	1:C:1589:LEU:HD12	1.61	0.80
2:D:1711:CYS:HB2	2:D:1712:PRO:HD3	1.63	0.80
2:D:1961:ASP:O	2:D:1964:VAL:HG22	1.82	0.80
2:D:3308:ILE:HG13	2:D:3329:MET:CB	2.11	0.80
2:B:1694:SER:N	2:D:2101:TYR:CE2	2.50	0.80
1:C:112:ASP:HB2	1:C:116:GLY:HA3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:LEU:HD12	1:C:403:HIS:ND1	1.96	0.80
1:C:1141:ARG:HG3	1:C:1143:PHE:CE1	2.16	0.80
1:C:1233:SER:HA	2:D:2320:SER:HB2	1.64	0.80
1:C:1262:ILE:HA	1:C:1265:LEU:HD23	1.64	0.80
1:C:1566:VAL:CG2	1:C:1626:ILE:HG22	2.11	0.80
1:A:900:VAL:HG13	1:A:1081:LEU:HD11	1.62	0.79
1:A:910:VAL:HG11	1:A:1112:PHE:HD2	1.45	0.79
1:A:1192:LYS:HZ2	1:A:1235:ILE:HD12	1.46	0.79
1:A:1353:PRO:HG2	1:A:1356:ILE:CG1	2.10	0.79
1:A:1589:LEU:HD13	1:A:1590:GLY:N	1.96	0.79
2:B:2029:THR:O	2:B:2033:MET:HG2	1.80	0.79
2:B:2248:ASP:OD2	2:B:2431:ARG:NH1	2.14	0.79
1:C:216:ILE:HA	1:C:219:ILE:HD12	1.64	0.79
1:C:484:MET:HB2	1:C:486:ILE:HG22	1.63	0.79
1:C:492:ARG:O	1:C:495:VAL:HG12	1.83	0.79
1:C:943:HIS:HE1	1:C:946:TYR:CZ	2.01	0.79
1:C:1233:SER:HB2	2:D:2320:SER:HB3	1.64	0.79
2:D:2542:HIS:HE1	2:D:2688:LEU:HD12	1.46	0.79
2:D:3275:LYS:HE3	2:D:3282:LEU:HD13	1.62	0.79
1:A:492:ARG:O	1:A:495:VAL:HG12	1.83	0.79
1:A:514:TRP:CZ2	1:A:524:PRO:HD3	2.18	0.79
1:A:1087:SER:C	1:A:1097:LYS:HZ2	1.87	0.79
1:A:1352:LEU:HB3	1:A:1353:PRO:HD2	1.63	0.79
1:A:1379:ILE:HG23	1:A:1382:GLU:O	1.83	0.79
1:A:1515:TYR:CD1	1:A:1519:PHE:HB2	2.17	0.79
1:A:1567:PHE:HA	1:A:1583:ALA:HB2	1.64	0.79
2:B:1924:LEU:HB3	2:D:2094:ARG:HG2	1.64	0.79
2:B:3310:LYS:HD3	2:B:3332:ASP:OD2	1.82	0.79
1:C:412:PRO:CG	1:C:654:TYR:CB	2.59	0.79
2:D:2127:LYS:HD3	2:D:2333:ILE:HD13	1.62	0.79
1:A:1274:ARG:HH11	1:A:1365:ARG:HH21	1.28	0.79
1:A:1566:VAL:CG2	1:A:1626:ILE:HG22	2.12	0.79
2:B:2494:HIS:HE1	2:B:3125:LYS:CE	1.90	0.79
1:C:464:LEU:HD13	1:C:465:PRO:N	1.96	0.79
2:D:2578:GLU:OE2	2:D:2589:GLY:HA2	1.80	0.79
1:A:443:PHE:HA	1:A:505:ARG:NH1	1.98	0.79
2:B:2419:LEU:HD23	2:B:2420:GLY:N	1.97	0.79
2:B:3187:LEU:O	2:B:3190:VAL:HG12	1.80	0.79
2:B:3325:LYS:HG3	2:B:3367:TYR:HB2	1.64	0.79
1:C:1363:ASN:CB	1:C:1365:ARG:CZ	2.61	0.79
1:C:1567:PHE:HA	1:C:1583:ALA:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1786:ASN:O	2:D:1789:ILE:HG22	1.83	0.79
1:A:1426:ALA:O	1:A:1430:LEU:HD13	1.82	0.79
2:B:1925:ASN:ND2	2:B:1928:THR:HG23	1.97	0.79
2:B:2400:GLN:HG3	2:B:2412:HIS:CE1	2.18	0.79
2:B:3142:HIS:HD2	2:B:3145:ASN:HD21	1.30	0.79
2:D:2194:VAL:HG12	2:D:2196:ARG:N	1.96	0.79
2:D:2980:GLN:OE1	2:D:3155:THR:HG21	1.81	0.79
2:D:2999:TRP:CH2	2:D:3074:LEU:HD11	2.18	0.79
1:A:305:ALA:HB2	1:A:362:LEU:HD11	1.65	0.79
1:A:1325:VAL:CG1	1:A:1515:TYR:HE1	1.94	0.79
2:B:1695:SER:CB	2:D:2195:TRP:HB3	2.12	0.79
1:C:94:TRP:HZ2	1:C:185:LEU:HD22	1.45	0.79
1:C:432:THR:HG23	1:C:435:GLU:H	1.47	0.79
1:C:1205:HIS:CD2	1:C:1207:GLU:H	2.01	0.79
2:D:1707:LEU:HD21	2:D:2012:LYS:HD2	1.64	0.79
2:D:1920:ALA:HB1	2:D:1921:PRO:HA	1.63	0.79
2:D:2182:ILE:HD11	2:D:2224:LEU:HD11	1.65	0.79
1:A:693:ASP:O	1:A:697:VAL:HG22	1.83	0.79
1:A:821:ILE:HD12	1:A:821:ILE:O	1.83	0.79
1:A:841:ASN:ND2	1:A:844:ARG:HB2	1.96	0.79
2:B:1707:LEU:HD21	2:B:2012:LYS:HD2	1.64	0.79
2:B:1747:LYS:NZ	2:D:2094:ARG:HE	1.80	0.79
1:C:601:THR:O	1:C:604:THR:HG22	1.82	0.79
1:C:1070:ALA:CB	1:C:1077:MET:HE1	2.13	0.79
2:D:2866:MET:HE1	2:D:2881:ILE:HB	1.65	0.79
1:A:810:LEU:HD11	1:A:814:LEU:CD2	2.13	0.79
2:B:2149:TRP:HA	2:B:2326:MET:CE	2.13	0.79
2:B:2170:VAL:HB	2:B:2288:PHE:CE1	2.18	0.79
2:B:2670:HIS:ND1	2:B:2704:THR:HG21	1.96	0.79
2:B:3308:ILE:HG13	2:B:3329:MET:CB	2.11	0.79
2:B:3328:PHE:CE1	2:B:3364:GLY:HA2	2.18	0.79
1:C:325:PRO:CD	1:C:377:TYR:HA	2.12	0.79
2:D:2437:ILE:HG12	2:D:2441:LEU:CG	2.12	0.79
1:A:1249:GLN:C	1:A:1470:ARG:HH21	1.86	0.79
2:B:2503:GLY:HA3	2:B:2588:VAL:HB	1.63	0.79
1:C:210:HIS:HA	1:C:213:VAL:HG22	1.63	0.79
1:C:1361:TYR:HE2	1:C:1365:ARG:HH12	1.30	0.79
1:C:1379:ILE:HG23	1:C:1382:GLU:O	1.83	0.79
2:D:1689:MET:HA	2:D:1748:HIS:NE2	1.97	0.79
2:D:2170:VAL:HB	2:D:2288:PHE:CE1	2.18	0.79
2:D:3216:LYS:HD2	2:D:3232:SER:OG	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:THR:O	1:A:16:THR:HG23	1.83	0.79
1:A:23:LEU:HD23	1:A:122:TYR:CD2	2.17	0.79
1:A:489:HIS:CG	1:A:688:PRO:HB3	2.18	0.79
2:B:2506:LYS:CG	2:B:2769:ASP:HB3	2.07	0.79
2:B:3178:ASN:ND2	2:B:3183:ASN:HA	1.98	0.79
1:C:489:HIS:CG	1:C:688:PRO:HB3	2.18	0.79
1:C:552:GLU:OE2	1:C:554:ASN:HB2	1.82	0.79
1:C:1219:LEU:HD12	1:C:1220:LYS:N	1.98	0.79
2:D:2419:LEU:HD23	2:D:2420:GLY:N	1.97	0.79
2:D:2950:ASN:HB3	2:D:2960:TYR:C	2.06	0.79
2:D:3391:ILE:H	2:D:3391:ILE:HD12	1.48	0.79
1:A:244:LYS:NZ	1:A:263:THR:HB	1.98	0.78
1:A:484:MET:HB2	1:A:486:ILE:HG22	1.63	0.78
1:A:1363:ASN:CB	1:A:1365:ARG:CZ	2.61	0.78
1:A:1454:HIS:O	1:A:1457:THR:HG22	1.82	0.78
2:B:1985:SER:OG	2:B:2050:TYR:CZ	2.36	0.78
1:C:42:HIS:HB3	1:C:201:ALA:HB2	1.65	0.78
1:C:85:ARG:NH1	1:C:86:THR:HG22	1.97	0.78
1:C:412:PRO:HG3	1:C:654:TYR:HB2	1.65	0.78
1:C:443:PHE:HA	1:C:505:ARG:NH1	1.98	0.78
1:C:1319:TRP:CD1	1:C:1490:LEU:HD11	2.18	0.78
1:A:432:THR:HG23	1:A:435:GLU:H	1.47	0.78
1:A:464:LEU:HD13	1:A:465:PRO:CD	2.13	0.78
1:A:1161:ILE:HD12	1:A:1171:ALA:HB2	1.66	0.78
2:B:1689:MET:HA	2:B:1748:HIS:NE2	1.97	0.78
2:B:2106:LEU:HD23	2:B:2164:HIS:CG	2.17	0.78
2:B:3075:HIS:HB2	2:B:3109:LEU:CD1	2.13	0.78
2:B:3391:ILE:H	2:B:3391:ILE:HD12	1.48	0.78
1:C:549:ILE:HG13	1:C:556:PRO:CG	2.14	0.78
1:C:810:LEU:HD11	1:C:814:LEU:CD2	2.13	0.78
1:C:1274:ARG:HH11	1:C:1365:ARG:HH21	1.28	0.78
1:C:1352:LEU:HB3	1:C:1353:PRO:HD2	1.63	0.78
1:C:1409:GLU:HB2	1:C:1543:ARG:NH2	1.97	0.78
2:D:1708:PRO:HD3	2:D:1795:PHE:CE1	2.18	0.78
2:D:1819:HIS:O	2:D:1824:ILE:HD12	1.83	0.78
2:D:2400:GLN:HG3	2:D:2412:HIS:CE1	2.18	0.78
2:D:3325:LYS:HG3	2:D:3367:TYR:HB2	1.64	0.78
1:A:42:HIS:HB3	1:A:201:ALA:HB2	1.65	0.78
1:A:496:THR:HB	1:A:698:LEU:HD21	1.63	0.78
1:A:560:ARG:HA	1:A:613:GLU:OE1	1.83	0.78
1:A:1083:PRO:CA	1:A:1086:LEU:HD13	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:THR:O	1:C:16:THR:HG23	1.83	0.78
1:C:810:LEU:CD1	1:C:814:LEU:HD22	2.14	0.78
1:C:973:ARG:HD2	1:C:1022:VAL:CG1	2.14	0.78
1:C:1239:ARG:NH2	1:C:1242:HIS:NE2	2.32	0.78
1:C:1476:TYR:CD2	1:C:1477:ARG:HB2	2.18	0.78
2:D:2149:TRP:HA	2:D:2326:MET:CE	2.13	0.78
2:D:3316:PRO:HB3	2:D:3392:HIS:CB	2.10	0.78
2:D:3328:PHE:CE1	2:D:3364:GLY:HA2	2.18	0.78
1:A:482:HIS:CD2	1:A:487:PHE:CE2	2.72	0.78
1:A:973:ARG:HD2	1:A:1022:VAL:CG1	2.14	0.78
1:A:1070:ALA:CB	1:A:1077:MET:HE1	2.13	0.78
1:A:1219:LEU:HD12	1:A:1220:LYS:N	1.98	0.78
1:A:1319:TRP:CD1	1:A:1490:LEU:HD21	2.19	0.78
2:B:2091:LEU:HD11	2:B:2171:PRO:CG	2.10	0.78
2:B:2106:LEU:HA	2:B:2164:HIS:NE2	1.99	0.78
2:B:2345:PRO:O	2:B:2348:VAL:HG22	1.83	0.78
2:B:2494:HIS:HD2	2:B:3124:VAL:O	1.64	0.78
1:A:560:ARG:CD	1:A:609:THR:CA	2.58	0.78
1:A:943:HIS:HE1	1:A:946:TYR:CZ	2.01	0.78
2:B:2209:VAL:HG13	2:B:2212:HIS:HB2	1.65	0.78
2:B:2385:PHE:HE1	2:B:2485:GLU:HB2	1.46	0.78
2:B:2931:GLN:NE2	2:B:3018:PRO:HB3	1.99	0.78
2:B:3316:PRO:CD	2:D:3350:LYS:HZ1	1.79	0.78
1:C:369:MET:SD	1:C:371:MET:HE2	2.23	0.78
1:C:464:LEU:HD13	1:C:465:PRO:CD	2.13	0.78
1:C:514:TRP:CZ2	1:C:524:PRO:HD3	2.18	0.78
1:C:560:ARG:CD	1:C:609:THR:CA	2.58	0.78
1:C:783:HIS:CE1	1:C:784:VAL:HG23	2.19	0.78
1:C:1557:ASN:CG	1:C:1588:ILE:HG12	2.09	0.78
2:D:2687:THR:HG21	2:D:2690:TYR:CD2	2.17	0.78
2:D:2794:THR:HG23	2:D:2847:ILE:CG1	2.08	0.78
1:A:210:HIS:HA	1:A:213:VAL:HG22	1.63	0.78
1:A:464:LEU:CD2	1:A:465:PRO:HA	2.12	0.78
1:A:486:ILE:CB	1:A:662:LEU:HD21	2.11	0.78
1:A:744:ASP:OD1	1:A:801:ASP:HB2	1.83	0.78
1:A:1205:HIS:CD2	1:A:1207:GLU:H	2.01	0.78
1:A:1249:GLN:CG	1:A:1476:TYR:CD1	2.67	0.78
1:A:1515:TYR:CD2	1:A:1521:TYR:O	2.36	0.78
1:A:1618:LEU:HG	2:B:1906:VAL:HG11	1.66	0.78
2:B:2999:TRP:CH2	2:B:3074:LEU:HD11	2.18	0.78
1:C:204:PRO:O	1:C:207:PHE:HB3	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:LYS:NZ	1:C:263:THR:HB	1.98	0.78
1:C:305:ALA:HB2	1:C:362:LEU:HD11	1.65	0.78
1:C:508:THR:HG23	1:C:509:ILE:HG13	1.63	0.78
1:C:660:ILE:O	1:C:663:GLU:HG2	1.83	0.78
1:C:1066:PRO:HB2	1:C:1069:VAL:CG2	2.13	0.78
2:D:2942:ILE:HD11	2:D:2980:GLN:HG3	1.65	0.78
2:D:3178:ASN:ND2	2:D:3183:ASN:HA	1.98	0.78
1:A:204:PRO:O	1:A:207:PHE:HB3	1.83	0.78
1:A:1274:ARG:NH1	1:A:1365:ARG:HH21	1.81	0.78
2:B:2101:TYR:HD1	2:D:1693:HIS:CB	1.62	0.78
2:B:2195:TRP:HB2	2:D:1922:TYR:CG	2.12	0.78
1:C:362:LEU:O	1:C:365:THR:HG22	1.83	0.78
1:C:845:LEU:HD11	1:C:926:PRO:CG	2.13	0.78
1:C:1277:PHE:O	1:C:1280:ILE:HG22	1.84	0.78
1:C:1491:GLN:OE1	1:C:1494:ASP:HB2	1.84	0.78
2:D:3346:THR:HA	2:D:3349:PHE:HD2	1.48	0.78
1:A:500:ASP:O	1:A:503:VAL:HG22	1.84	0.78
1:A:1066:PRO:HB2	1:A:1069:VAL:CG2	2.13	0.78
1:A:1242:HIS:CB	1:A:1476:TYR:CE1	2.63	0.78
1:A:1248:TYR:HA	1:A:1470:ARG:HD2	1.30	0.78
1:A:1249:GLN:HB2	1:A:1470:ARG:HH21	1.47	0.78
2:B:2685:MET:SD	2:B:2696:LEU:HD23	2.24	0.78
2:B:3387:ASN:HD21	2:B:3389:LEU:HG	1.45	0.78
1:C:146:LYS:NZ	1:C:148:LYS:HE3	1.99	0.78
1:C:1515:TYR:CD1	1:C:1519:PHE:HB2	2.18	0.78
2:D:3075:HIS:HB2	2:D:3109:LEU:CD1	2.13	0.78
2:D:3310:LYS:HD3	2:D:3332:ASP:OD2	1.82	0.78
1:A:216:ILE:HA	1:A:219:ILE:HD12	1.64	0.78
1:A:583:LEU:HD11	1:A:718:MET:HE2	1.65	0.78
1:A:660:ILE:O	1:A:663:GLU:HG2	1.83	0.78
2:B:2384:VAL:CG1	2:B:2437:ILE:HG23	2.07	0.78
2:B:3340:LEU:CB	2:B:3377:THR:HG22	2.14	0.78
1:C:23:LEU:HD23	1:C:122:TYR:CD2	2.17	0.78
1:C:318:VAL:HG11	1:C:341:PHE:CZ	2.19	0.78
1:C:464:LEU:CD2	1:C:465:PRO:HA	2.12	0.78
1:C:901:PHE:HB3	1:C:902:PRO:HD3	1.66	0.78
1:C:928:TRP:HE1	1:C:934:LEU:HD11	1.49	0.78
1:C:1611:LEU:HA	1:C:1614:ASN:ND2	1.99	0.78
2:D:2267:VAL:HG23	2:D:2275:LEU:HB2	1.66	0.78
2:D:2685:MET:SD	2:D:2696:LEU:HD23	2.24	0.78
1:A:89:LEU:HD23	1:A:89:LEU:H	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:VAL:HG11	1:A:341:PHE:CZ	2.19	0.78
2:B:1819:HIS:O	2:B:1824:ILE:HD12	1.83	0.78
2:B:2687:THR:HG21	2:B:2690:TYR:CD2	2.18	0.78
2:B:2794:THR:HG23	2:B:2847:ILE:CG1	2.08	0.78
2:B:2892:GLY:O	2:B:2893:LYS:HG3	1.84	0.78
2:B:3269:LYS:HE3	2:B:3270:PHE:H	1.49	0.78
1:C:482:HIS:CD2	1:C:487:PHE:CE2	2.72	0.78
1:C:698:LEU:O	1:C:698:LEU:HD13	1.84	0.78
1:C:821:ILE:HD12	1:C:821:ILE:O	1.83	0.78
2:D:2106:LEU:HD23	2:D:2164:HIS:CG	2.17	0.78
1:A:369:MET:SD	1:A:371:MET:HE2	2.23	0.77
1:A:412:PRO:HG3	1:A:654:TYR:HB2	1.65	0.77
1:A:810:LEU:CD1	1:A:814:LEU:HD22	2.14	0.77
1:A:1239:ARG:NH2	1:A:1242:HIS:NE2	2.32	0.77
1:A:1277:PHE:O	1:A:1280:ILE:HG22	1.84	0.77
1:A:1659:ASP:OD2	2:B:1939:ASP:HB2	1.83	0.77
2:B:1994:ARG:HD3	2:B:2035:LEU:HD21	1.66	0.77
2:B:2622:LEU:HD12	2:B:2624:VAL:HG12	1.66	0.77
1:C:256:PRO:HA	1:C:259:ASN:ND2	1.97	0.77
1:C:321:TYR:CD2	1:C:337:LYS:HA	2.19	0.77
1:C:693:ASP:O	1:C:697:VAL:HG22	1.83	0.77
1:C:1257:ARG:CB	1:C:1521:TYR:CD1	2.66	0.77
2:D:3378:ALA:HB1	2:D:3383:LEU:CD1	2.14	0.77
1:A:509:ILE:HG22	1:A:510:GLY:N	1.98	0.77
1:A:853:LEU:HG	1:A:921:TYR:CE1	2.20	0.77
2:B:2182:ILE:HD11	2:B:2224:LEU:HD11	1.65	0.77
2:B:2267:VAL:HG23	2:B:2275:LEU:HB2	1.66	0.77
1:C:500:ASP:O	1:C:503:VAL:HG22	1.84	0.77
1:C:1515:TYR:CD2	1:C:1521:TYR:O	2.36	0.77
2:D:3339:MET:CE	2:D:3389:LEU:HD13	2.14	0.77
2:D:3340:LEU:CB	2:D:3377:THR:HG22	2.14	0.77
1:A:325:PRO:CD	1:A:377:TYR:HA	2.12	0.77
1:A:845:LEU:HD11	1:A:926:PRO:CG	2.13	0.77
1:A:1491:GLN:OE1	1:A:1494:ASP:HB2	1.84	0.77
2:B:1708:PRO:HD3	2:B:1795:PHE:CE1	2.18	0.77
2:B:1982:PHE:HE2	2:B:2047:ILE:HD13	1.49	0.77
2:B:3378:ALA:HB1	2:B:3383:LEU:CD1	2.14	0.77
1:C:302:ARG:HD2	1:C:361:ASP:OD2	1.85	0.77
1:C:1249:GLN:CG	1:C:1476:TYR:CD1	2.67	0.77
1:C:1415:ASP:OD1	1:C:1601:ARG:NH1	2.17	0.77
2:D:2307:LYS:CE	2:D:2369:HIS:HA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2931:GLN:NE2	2:D:3018:PRO:HB3	1.99	0.77
1:A:112:ASP:HB2	1:A:116:GLY:HA3	1.64	0.77
1:A:1345:TRP:CZ2	1:A:1430:LEU:HD22	2.20	0.77
1:A:1533:ILE:HB	1:A:1534:PRO:HD3	1.65	0.77
1:A:1611:LEU:HA	1:A:1614:ASN:ND2	1.99	0.77
2:B:2538:ILE:CD1	2:B:2577:MET:HE1	1.75	0.77
2:B:2572:LEU:HD23	2:B:2764:PHE:HE2	1.48	0.77
2:B:2622:LEU:HD12	2:B:2624:VAL:CG1	2.15	0.77
2:B:3216:LYS:HD2	2:B:3232:SER:OG	1.83	0.77
2:D:2106:LEU:HA	2:D:2164:HIS:NE2	1.99	0.77
1:A:302:ARG:HD2	1:A:361:ASP:OD2	1.85	0.77
1:A:464:LEU:HD23	1:A:767:LYS:HE3	1.67	0.77
1:A:1476:TYR:CD2	1:A:1477:ARG:HB2	2.18	0.77
2:B:1693:HIS:CD2	2:D:2101:TYR:CA	2.67	0.77
1:C:724:GLN:NE2	1:C:828:LYS:HE3	1.84	0.77
1:C:1161:ILE:HD12	1:C:1171:ALA:HB2	1.66	0.77
1:C:1345:TRP:CZ2	1:C:1430:LEU:HD22	2.20	0.77
2:D:1985:SER:OG	2:D:2050:TYR:CZ	2.36	0.77
2:D:2208:TYR:HB3	2:D:2215:TYR:CD1	2.20	0.77
2:D:2572:LEU:HD23	2:D:2764:PHE:HE2	1.48	0.77
2:D:3248:ARG:CD	2:D:3320:VAL:HG21	2.15	0.77
2:D:3292:ILE:HD13	2:D:3293:VAL:N	2.00	0.77
1:A:179:HIS:CE1	1:A:209:HIS:HE2	2.03	0.77
1:A:743:VAL:O	1:A:759:THR:HG23	1.85	0.77
1:A:901:PHE:HB3	1:A:902:PRO:HD3	1.66	0.77
2:B:2437:ILE:HG12	2:B:2441:LEU:CG	2.12	0.77
2:B:2866:MET:HE1	2:B:2881:ILE:HB	1.65	0.77
2:B:3292:ILE:HD13	2:B:3293:VAL:N	2.00	0.77
1:C:482:HIS:CD2	1:C:487:PHE:HE2	2.01	0.77
1:C:560:ARG:HA	1:C:613:GLU:OE1	1.83	0.77
1:C:1319:TRP:CD1	1:C:1490:LEU:HD21	2.19	0.77
1:C:1533:ILE:HB	1:C:1534:PRO:HD3	1.65	0.77
2:D:2170:VAL:HG11	2:D:2288:PHE:CD1	2.20	0.77
1:A:1326:VAL:HG21	1:A:1493:PHE:HE1	1.49	0.77
2:B:2208:TYR:HB3	2:B:2215:TYR:CD1	2.19	0.77
2:B:2550:MET:HG3	2:B:2556:TYR:HE2	1.50	0.77
1:C:179:HIS:CE1	1:C:209:HIS:HE2	2.03	0.77
1:C:583:LEU:HD11	1:C:718:MET:HE2	1.64	0.77
1:C:1189:ARG:CZ	2:D:2430:ASN:O	2.32	0.77
1:C:1189:ARG:NE	2:D:2431:ARG:HA	1.98	0.77
1:C:1274:ARG:NH1	1:C:1365:ARG:HH21	1.81	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2209:VAL:HG13	2:D:2212:HIS:HB2	1.65	0.77
2:D:2622:LEU:HD12	2:D:2624:VAL:CG1	2.15	0.77
1:A:146:LYS:NZ	1:A:148:LYS:HE3	1.99	0.77
2:B:1729:THR:HG22	2:B:1913:LEU:HD21	1.67	0.77
2:B:1890:SER:O	2:B:1893:ARG:CG	2.25	0.77
1:C:549:ILE:CG1	1:C:556:PRO:HG3	2.15	0.77
1:C:749:THR:HG22	1:C:753:VAL:H	1.50	0.77
1:C:1142:PHE:HB3	1:C:1195:ILE:CG2	2.15	0.77
2:D:2622:LEU:HG	2:D:2683:TYR:HE1	1.49	0.77
2:D:2622:LEU:HD12	2:D:2624:VAL:HG12	1.66	0.77
1:A:578:LEU:HD13	1:A:581:GLN:NE2	1.99	0.77
1:A:783:HIS:CE1	1:A:784:VAL:HG23	2.19	0.77
1:A:928:TRP:HE1	1:A:934:LEU:HD11	1.49	0.77
1:A:1216:VAL:HG23	1:A:1224:LEU:HB2	1.66	0.77
2:B:2919:GLU:HA	2:B:2922:GLU:OE2	1.85	0.77
2:B:3339:MET:CE	2:B:3389:LEU:HD13	2.14	0.77
1:C:1083:PRO:CA	1:C:1086:LEU:HD13	2.13	0.77
1:C:1249:GLN:HB2	1:C:1470:ARG:HH21	1.48	0.77
1:C:1356:ILE:HD12	1:C:1388:ARG:HH12	1.49	0.77
2:D:1763:ARG:O	2:D:1812:PHE:HB3	1.85	0.77
2:D:1890:SER:O	2:D:1893:ARG:CG	2.25	0.77
2:D:1982:PHE:HE2	2:D:2047:ILE:HD13	1.50	0.77
2:D:2506:LYS:CG	2:D:2769:ASP:HB3	2.07	0.77
2:D:3079:HIS:HA	2:D:3090:MET:CE	2.14	0.77
1:A:321:TYR:CD2	1:A:337:LYS:HA	2.19	0.77
1:A:482:HIS:CD2	1:A:487:PHE:HE2	2.01	0.77
1:A:749:THR:HG22	1:A:753:VAL:H	1.50	0.77
2:B:1714:PRO:HG3	2:B:1922:TYR:CD2	2.20	0.77
2:B:2942:ILE:HD11	2:B:2980:GLN:HG3	1.65	0.77
1:C:578:LEU:HD13	1:C:581:GLN:NE2	1.99	0.77
2:D:1759:TRP:HZ3	2:D:1877:HIS:HA	1.49	0.77
2:D:2513:THR:O	2:D:2516:VAL:HG22	1.84	0.77
2:D:2975:ARG:NH1	2:D:3167:SER:HB3	2.00	0.77
2:D:3037:GLU:O	2:D:3039:ILE:HG13	1.85	0.77
1:A:408:GLY:H	1:A:653:PRO:CG	1.98	0.76
2:B:1786:ASN:O	2:B:1789:ILE:HG22	1.83	0.76
2:B:2307:LYS:CE	2:B:2369:HIS:HA	2.14	0.76
2:B:3079:HIS:HA	2:B:3090:MET:CE	2.14	0.76
2:B:3375:PHE:HE2	2:B:3377:THR:HB	1.50	0.76
1:C:94:TRP:CB	1:C:182:ILE:HD11	2.15	0.76
1:C:853:LEU:HG	1:C:921:TYR:CE1	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1506:HIS:HE1	1:C:1518:SER:HB3	1.49	0.76
2:D:2096:ILE:CG1	2:D:2185:LEU:HD12	2.10	0.76
2:D:2202:ASN:ND2	2:D:2203:PRO:HD2	2.00	0.76
1:A:442:ALA:HB1	1:A:505:ARG:CB	2.15	0.76
1:A:1261:ASN:OD1	1:A:1264:ASN:HB2	1.85	0.76
2:B:2170:VAL:HG11	2:B:2288:PHE:CD1	2.20	0.76
2:B:2256:PHE:CZ	2:B:2294:VAL:HG22	2.20	0.76
2:B:2513:THR:O	2:B:2516:VAL:HG22	1.84	0.76
1:C:1192:LYS:HZ2	1:C:1235:ILE:CD1	1.98	0.76
1:C:1192:LYS:NZ	1:C:1235:ILE:CD1	2.48	0.76
2:D:2976:LEU:O	2:D:2979:ILE:HG13	1.85	0.76
2:D:3383:LEU:O	2:D:3383:LEU:HD13	1.85	0.76
1:A:362:LEU:O	1:A:365:THR:HG22	1.83	0.76
1:A:549:ILE:HG13	1:A:556:PRO:CG	2.14	0.76
1:A:551:PHE:HE1	1:A:625:PHE:HZ	1.31	0.76
1:A:698:LEU:O	1:A:698:LEU:HD13	1.84	0.76
1:A:1506:HIS:HE1	1:A:1518:SER:HB3	1.49	0.76
1:A:1557:ASN:CG	1:A:1588:ILE:HG12	2.09	0.76
2:B:1759:TRP:HZ3	2:B:1877:HIS:HA	1.49	0.76
2:B:2151:ARG:NH1	2:B:2351:TYR:HB3	2.01	0.76
2:B:2178:PRO:HB3	2:B:2226:HIS:HB2	1.68	0.76
2:B:2976:LEU:HD21	2:B:3155:THR:HG23	1.68	0.76
1:C:408:GLY:H	1:C:653:PRO:CG	1.98	0.76
1:C:509:ILE:HG22	1:C:510:GLY:N	1.98	0.76
1:C:744:ASP:OD1	1:C:801:ASP:HB2	1.83	0.76
2:D:1729:THR:HG22	2:D:1913:LEU:HD21	1.67	0.76
2:D:2760:GLU:HB3	2:D:2763:ARG:HD2	1.68	0.76
1:A:910:VAL:HG21	1:A:1112:PHE:CD2	2.20	0.76
2:B:2502:HIS:CD2	2:B:2765:ASN:HA	2.21	0.76
2:B:2627:THR:HG23	2:B:2681:THR:CG2	2.16	0.76
1:A:70:ARG:O	1:A:73:VAL:HG22	1.85	0.76
2:B:1693:HIS:HD2	2:D:2101:TYR:CA	1.97	0.76
2:B:1922:TYR:CE1	2:D:2195:TRP:O	2.37	0.76
2:B:2263:ILE:HD12	2:B:2290:HIS:ND1	2.00	0.76
2:B:2931:GLN:HE22	2:B:3018:PRO:HB3	1.50	0.76
2:B:2975:ARG:NH1	2:B:3167:SER:HB3	2.00	0.76
1:C:238:GLN:NE2	1:C:820:VAL:HG12	2.00	0.76
2:D:1759:TRP:CZ3	2:D:1877:HIS:HA	2.21	0.76
2:D:2345:PRO:O	2:D:2348:VAL:HG22	1.83	0.76
2:D:2384:VAL:HG13	2:D:2437:ILE:CG2	2.09	0.76
1:A:76:MET:O	1:A:80:LEU:HD22	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:928:TRP:HE1	1:A:934:LEU:CD1	1.99	0.76
2:B:1759:TRP:CZ3	2:B:1877:HIS:HA	2.21	0.76
2:B:1778:PRO:CB	2:D:1817:LYS:HD3	2.16	0.76
2:B:2177:LYS:NZ	2:B:2364:GLY:HA2	2.00	0.76
2:B:2195:TRP:O	2:D:1922:TYR:HE1	1.68	0.76
2:B:3037:GLU:O	2:B:3039:ILE:HG13	1.86	0.76
1:C:910:VAL:HG21	1:C:1112:PHE:CD2	2.20	0.76
2:D:1714:PRO:HG3	2:D:1922:TYR:CD2	2.20	0.76
2:D:2256:PHE:CZ	2:D:2294:VAL:HG22	2.20	0.76
1:A:117:LYS:HD3	1:A:119:HIS:CE1	2.21	0.76
1:A:464:LEU:HD12	1:A:551:PHE:CE2	2.21	0.76
1:A:1022:VAL:HG21	1:A:1041:LEU:HD23	1.67	0.76
1:A:1356:ILE:HD12	1:A:1388:ARG:HH12	1.49	0.76
1:A:1406:TYR:HA	1:A:1543:ARG:NH2	2.00	0.76
2:B:2322:MET:HE1	2:B:2349:PHE:CE1	2.20	0.76
2:B:2502:HIS:CE1	2:B:3128:HIS:CE1	2.74	0.76
2:B:2760:GLU:HB3	2:B:2763:ARG:HD2	1.68	0.76
2:B:3201:PHE:HB2	2:B:3293:VAL:HG23	1.68	0.76
1:C:117:LYS:HD3	1:C:119:HIS:CE1	2.21	0.76
2:D:2182:ILE:HG23	2:D:2183:PRO:HD2	1.67	0.76
2:D:2627:THR:HG23	2:D:2681:THR:CG2	2.16	0.76
2:D:3275:LYS:HG3	2:D:3282:LEU:CD1	2.16	0.76
1:A:1415:ASP:OD1	1:A:1601:ARG:NH1	2.17	0.76
2:B:2182:ILE:HG23	2:B:2183:PRO:HD2	1.67	0.76
2:B:2202:ASN:ND2	2:B:2203:PRO:HD2	2.00	0.76
2:B:3346:THR:HA	2:B:3349:PHE:HD2	1.48	0.76
1:C:301:ALA:HB1	1:C:404:HIS:HB3	1.68	0.76
1:C:1124:LEU:HD22	1:C:1128:GLN:HG2	1.67	0.76
2:D:2178:PRO:HB3	2:D:2226:HIS:HB2	1.68	0.76
2:D:2542:HIS:HA	2:D:2559:CYS:SG	2.25	0.76
1:A:301:ALA:HB1	1:A:404:HIS:HB3	1.68	0.76
2:B:3044:LYS:HD2	2:B:3180:HIS:CE1	2.21	0.76
2:B:3353:VAL:HG22	2:B:3381:THR:HG22	1.67	0.76
1:C:551:PHE:HE1	1:C:625:PHE:HZ	1.31	0.76
1:C:1261:ASN:OD1	1:C:1264:ASN:HB2	1.85	0.76
2:D:1994:ARG:HD3	2:D:2035:LEU:HD21	1.66	0.76
2:D:2931:GLN:HE22	2:D:3018:PRO:HB3	1.50	0.76
2:D:3269:LYS:HE3	2:D:3270:PHE:H	1.49	0.76
2:D:3353:VAL:HG22	2:D:3381:THR:HG22	1.67	0.76
1:A:310:LYS:HZ3	1:A:351:LYS:HE2	1.51	0.76
1:A:1124:LEU:HD22	1:A:1128:GLN:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1157:VAL:CG2	1:A:1216:VAL:HG12	2.13	0.76
2:B:2356:TYR:HE2	2:B:2358:TYR:CZ	2.04	0.76
2:B:2542:HIS:HA	2:B:2559:CYS:SG	2.25	0.76
2:B:2976:LEU:O	2:B:2979:ILE:HG13	1.85	0.76
2:B:3056:LEU:HD11	2:B:3191:LEU:HD23	1.68	0.76
2:B:3144:PHE:O	2:B:3149:VAL:HG11	1.86	0.76
2:D:2182:ILE:CG2	2:D:2183:PRO:HD2	2.16	0.76
2:D:2263:ILE:HD12	2:D:2290:HIS:ND1	2.00	0.76
2:D:3200:VAL:HG12	2:D:3255:THR:HA	1.67	0.76
1:A:238:GLN:NE2	1:A:820:VAL:HG12	2.00	0.75
1:A:1192:LYS:NZ	1:A:1235:ILE:CD1	2.48	0.75
1:A:1319:TRP:CD1	1:A:1490:LEU:HD11	2.18	0.75
1:A:1319:TRP:CG	1:A:1490:LEU:HD21	2.21	0.75
2:B:2627:THR:CG2	2:B:2683:TYR:HB2	2.11	0.75
2:B:3219:ILE:HD13	2:B:3271:ARG:HD3	1.68	0.75
2:B:3248:ARG:CD	2:B:3320:VAL:HG21	2.15	0.75
1:C:464:LEU:HD23	1:C:767:LYS:HE3	1.67	0.75
2:D:3039:ILE:HG22	2:D:3040:PHE:H	1.51	0.75
2:D:3044:LYS:HD2	2:D:3180:HIS:CE1	2.21	0.75
2:D:3144:PHE:O	2:D:3149:VAL:HG11	1.86	0.75
1:A:11:LEU:HD11	1:A:90:PRO:CG	2.16	0.75
1:A:597:GLN:O	1:A:600:ILE:HG22	1.86	0.75
1:A:853:LEU:HG	1:A:921:TYR:CZ	2.21	0.75
1:A:1361:TYR:HE2	1:A:1365:ARG:HH12	1.30	0.75
1:C:59:ILE:HG21	1:C:64:THR:HB	1.67	0.75
1:C:70:ARG:O	1:C:73:VAL:HG22	1.85	0.75
1:C:442:ALA:HB1	1:C:505:ARG:CB	2.15	0.75
1:C:781:ILE:CG2	1:C:785:LEU:HG	2.16	0.75
1:C:1022:VAL:HG21	1:C:1041:LEU:HD23	1.67	0.75
2:D:2322:MET:HE1	2:D:2349:PHE:CE1	2.20	0.75
2:D:2604:THR:O	2:D:2607:THR:HG22	1.86	0.75
2:D:3201:PHE:HB2	2:D:3293:VAL:HG23	1.68	0.75
2:D:3375:PHE:HE2	2:D:3377:THR:HB	1.50	0.75
1:A:1142:PHE:HB3	1:A:1195:ILE:CG2	2.15	0.75
1:A:1638:SER:O	1:A:1641:ILE:HG22	1.85	0.75
2:B:1763:ARG:O	2:B:1812:PHE:HB3	1.85	0.75
2:B:1960:ILE:O	2:B:1963:ILE:HG22	1.86	0.75
2:B:2101:TYR:HB3	2:D:1693:HIS:CB	2.14	0.75
2:B:2334:ASN:ND2	2:B:2339:THR:HG21	2.01	0.75
2:B:2568:HIS:HA	2:B:2758:VAL:HG11	1.69	0.75
2:B:2604:THR:CA	2:B:2607:THR:HG22	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1216:VAL:HG23	1:C:1224:LEU:HB2	1.65	0.75
1:C:1566:VAL:HG13	1:C:1625:GLU:O	1.86	0.75
2:D:1960:ILE:O	2:D:1963:ILE:HG22	1.86	0.75
2:D:2177:LYS:NZ	2:D:2364:GLY:HA2	2.01	0.75
2:D:2356:TYR:HE2	2:D:2358:TYR:CZ	2.04	0.75
2:D:2645:PHE:HA	2:D:2648:ARG:HG2	1.69	0.75
2:D:2919:GLU:HA	2:D:2922:GLU:OE2	1.85	0.75
1:A:59:ILE:HG21	1:A:64:THR:HB	1.67	0.75
1:A:852:GLU:HB2	1:A:921:TYR:CE1	2.21	0.75
1:A:1278:LEU:HD12	1:A:1279:GLU:N	2.01	0.75
2:B:1843:PHE:CE1	2:B:1884:ILE:HG13	2.22	0.75
2:B:2494:HIS:CE1	2:B:3125:LYS:HG2	2.19	0.75
2:B:3265:ASP:HB2	2:B:3292:ILE:HD12	1.69	0.75
2:B:3275:LYS:HG3	2:B:3282:LEU:CD1	2.16	0.75
2:B:3308:ILE:CG2	2:B:3312:VAL:HB	2.16	0.75
1:C:1326:VAL:HG21	1:C:1493:PHE:HE1	1.49	0.75
1:C:1406:TYR:HA	1:C:1543:ARG:NH2	2.00	0.75
2:D:2151:ARG:NH1	2:D:2351:TYR:HB3	2.01	0.75
1:A:94:TRP:CB	1:A:182:ILE:HD11	2.15	0.75
1:A:549:ILE:CG1	1:A:556:PRO:HG3	2.15	0.75
1:A:1161:ILE:CD1	1:A:1171:ALA:HB2	2.17	0.75
1:A:1607:ILE:HD12	1:A:1611:LEU:CD1	2.17	0.75
2:B:2950:ASN:HB3	2:B:2960:TYR:O	1.86	0.75
2:B:3200:VAL:HG12	2:B:3255:THR:HA	1.67	0.75
1:C:165:GLN:OE1	1:C:170:LYS:HG3	1.87	0.75
1:C:1319:TRP:CG	1:C:1490:LEU:HD21	2.21	0.75
1:A:1321:ARG:O	1:A:1324:VAL:HG12	1.86	0.75
2:B:2243:ALA:HA	2:B:2246:GLN:HE21	1.50	0.75
2:B:2810:SER:HB3	2:B:2822:PHE:CE1	2.22	0.75
2:B:3383:LEU:O	2:B:3383:LEU:HD13	1.85	0.75
1:C:11:LEU:HD11	1:C:90:PRO:CG	2.16	0.75
1:C:674:SER:HB3	1:C:675:PRO:HD3	1.69	0.75
1:C:1002:ASP:OD2	1:C:1065:LYS:HE3	1.87	0.75
1:C:1254:SER:HA	1:C:1516:GLN:HG3	1.69	0.75
1:C:1327:VAL:HG11	1:C:1452:PHE:HE1	1.49	0.75
2:D:2321:LEU:HD22	2:D:2321:LEU:H	1.52	0.75
1:A:674:SER:HB3	1:A:675:PRO:HD3	1.69	0.75
1:A:1124:LEU:HD22	1:A:1128:GLN:CG	2.17	0.75
1:A:1566:VAL:HG13	1:A:1625:GLU:O	1.86	0.75
2:B:2182:ILE:CG2	2:B:2183:PRO:HD2	2.16	0.75
2:B:3316:PRO:HB3	2:B:3392:HIS:CB	2.10	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:22:ALA:HB1	1:C:83:LYS:CB	2.17	0.75
1:C:231:PRO:HG2	1:C:232:LYS:HE3	1.69	0.75
1:C:521:THR:HA	1:C:567:PHE:CD1	2.22	0.75
1:C:743:VAL:O	1:C:759:THR:HG23	1.85	0.75
1:C:928:TRP:HE1	1:C:934:LEU:CD1	1.99	0.75
2:D:1757:TRP:HB2	2:D:1876:ILE:HG21	1.68	0.75
2:D:1843:PHE:CE1	2:D:1884:ILE:HG13	2.22	0.75
2:D:2472:LEU:HD22	2:D:2473:PRO:CD	2.16	0.75
2:D:3308:ILE:CG2	2:D:3312:VAL:HB	2.16	0.75
1:A:1285:THR:O	1:A:1289:ILE:HG23	1.87	0.75
2:B:2604:THR:HA	2:B:2607:THR:CG2	2.17	0.75
2:B:2622:LEU:O	2:B:2622:LEU:HD13	1.86	0.75
1:C:852:GLU:HB2	1:C:921:TYR:CE1	2.21	0.75
1:C:913:GLU:OE2	1:C:924:ALA:HB1	1.86	0.75
1:C:1157:VAL:CG2	1:C:1216:VAL:HG12	2.13	0.75
1:C:1285:THR:O	1:C:1289:ILE:HG23	1.87	0.75
1:C:1321:ARG:O	1:C:1324:VAL:HG12	1.86	0.75
2:D:2106:LEU:HD11	2:D:2161:LEU:HD11	1.69	0.75
2:D:2243:ALA:HB2	2:D:2255:GLN:CG	2.16	0.75
2:D:2334:ASN:ND2	2:D:2339:THR:HG21	2.01	0.75
2:D:2622:LEU:O	2:D:2622:LEU:HD13	1.86	0.75
1:A:544:PHE:CD1	1:A:631:PHE:HZ	2.05	0.75
1:A:913:GLU:OE2	1:A:924:ALA:HB1	1.86	0.75
1:A:989:THR:CG2	1:A:991:ILE:HG22	2.17	0.75
1:C:94:TRP:CD1	1:C:155:LEU:HD22	2.18	0.75
1:C:387:ASN:OD1	1:C:389:THR:HG22	1.87	0.75
1:C:464:LEU:HD12	1:C:551:PHE:CE2	2.21	0.75
1:C:1607:ILE:HD12	1:C:1611:LEU:CD1	2.17	0.75
2:D:2550:MET:HG3	2:D:2556:TYR:HE2	1.50	0.75
2:D:2568:HIS:HA	2:D:2758:VAL:HG11	1.68	0.75
1:A:65:PHE:HB3	1:A:66:PRO:HD3	1.69	0.74
1:A:231:PRO:HG2	1:A:232:LYS:HE3	1.69	0.74
1:A:1476:TYR:CD2	1:A:1477:ARG:N	2.55	0.74
2:B:2605:PHE:HE2	2:B:2614:PHE:CE2	2.04	0.74
1:C:76:MET:O	1:C:80:LEU:HD22	1.86	0.74
1:C:597:GLN:O	1:C:600:ILE:HG22	1.86	0.74
1:C:1249:GLN:CG	1:C:1476:TYR:HB3	2.16	0.74
1:C:1638:SER:O	1:C:1641:ILE:HG22	1.85	0.74
2:D:2255:GLN:O	2:D:2258:VAL:HG12	1.87	0.74
2:D:2508:ILE:O	2:D:2511:LEU:HG	1.87	0.74
2:D:2810:SER:HB3	2:D:2822:PHE:CE1	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3189:GLU:HA	2:D:3192:ARG:HD3	1.68	0.74
1:A:466:ALA:CB	1:A:767:LYS:HD3	2.03	0.74
1:A:1254:SER:HA	1:A:1516:GLN:HG3	1.69	0.74
2:B:1693:HIS:C	2:D:2101:TYR:CZ	2.64	0.74
2:B:2173:TRP:HE3	2:B:2286:ILE:HD11	1.53	0.74
2:B:2401:PHE:CE1	2:B:2460:ILE:HG12	2.22	0.74
1:C:442:ALA:O	1:C:505:ARG:HD3	1.87	0.74
1:C:1487:HIS:CE1	2:D:2038:ASP:OD1	2.40	0.74
2:D:2279:HIS:NE2	2:D:2280:TYR:CD2	2.35	0.74
2:D:2604:THR:CA	2:D:2607:THR:HG22	2.17	0.74
2:D:2962:CYS:HB3	2:D:3143:PRO:HD3	1.68	0.74
2:D:2976:LEU:HD21	2:D:3155:THR:HG23	1.68	0.74
2:D:3204:PHE:HB3	2:D:3206:LEU:CD2	2.17	0.74
1:A:442:ALA:O	1:A:505:ARG:HD3	1.87	0.74
1:A:1091:ASN:O	1:A:1097:LYS:NZ	2.20	0.74
1:A:1257:ARG:CG	1:A:1521:TYR:CD1	2.71	0.74
1:A:1278:LEU:HB3	1:A:1373:PRO:HG2	1.69	0.74
1:A:1554:LEU:HG	1:A:1602:LEU:CD2	2.18	0.74
2:B:2115:PHE:HA	2:B:2118:ILE:HG22	1.69	0.74
2:B:2256:PHE:O	2:B:2259:MET:HG2	1.87	0.74
2:B:3102:PHE:CZ	2:B:3106:HIS:CE1	2.75	0.74
1:C:544:PHE:CD1	1:C:631:PHE:HZ	2.05	0.74
1:C:853:LEU:HG	1:C:921:TYR:CZ	2.21	0.74
1:C:1161:ILE:CD1	1:C:1171:ALA:HB2	2.17	0.74
2:D:2130:ASP:HB3	2:D:2132:HIS:ND1	2.01	0.74
2:D:2256:PHE:O	2:D:2259:MET:HG2	1.87	0.74
1:A:22:ALA:HB1	1:A:83:LYS:CB	2.17	0.74
1:A:32:SER:HA	1:A:37:LYS:HG3	1.70	0.74
1:A:152:HIS:HA	1:A:156:MET:SD	2.27	0.74
1:A:781:ILE:CG2	1:A:785:LEU:HG	2.16	0.74
2:B:2622:LEU:HG	2:B:2683:TYR:HE1	1.50	0.74
2:B:3056:LEU:HD13	2:B:3056:LEU:O	1.87	0.74
2:B:3204:PHE:HB3	2:B:3206:LEU:CD2	2.17	0.74
1:C:123:TRP:CZ3	1:C:208:LEU:HD21	2.22	0.74
1:C:1278:LEU:HD12	1:C:1279:GLU:N	2.01	0.74
2:D:1759:TRP:CH2	2:D:1877:HIS:HB2	2.22	0.74
2:D:1811:LEU:HG	2:D:1853:TRP:HZ3	1.49	0.74
2:D:2175:TRP:HD1	2:D:2236:LEU:HG	1.52	0.74
2:D:2544:ASN:HB2	2:D:2689:GLU:OE1	1.88	0.74
2:D:2628:ARG:NH2	2:D:2696:LEU:HB2	2.01	0.74
1:A:59:ILE:CG2	1:A:62:MET:HB2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1931:PHE:HE1	2:B:1942:LYS:HD3	1.53	0.74
2:B:2243:ALA:HB2	2:B:2255:GLN:CG	2.16	0.74
2:B:2604:THR:O	2:B:2607:THR:HG22	1.86	0.74
2:B:2645:PHE:HA	2:B:2648:ARG:HG2	1.69	0.74
1:C:32:SER:HA	1:C:37:LYS:HG3	1.69	0.74
1:C:462:HIS:HD2	1:C:480:CYS:HB2	1.52	0.74
1:C:620:LEU:CD1	1:C:768:GLU:HB3	2.18	0.74
1:C:638:ARG:O	1:C:642:VAL:HG23	1.88	0.74
1:C:906:ARG:O	1:C:909:THR:HG22	1.88	0.74
1:C:1322:LEU:HD11	1:C:1506:HIS:HB3	1.69	0.74
1:C:1436:LYS:HD2	1:C:1437:TYR:HE1	1.52	0.74
1:C:1476:TYR:CD2	1:C:1477:ARG:N	2.55	0.74
2:D:2560:THR:HB	2:D:2563:MET:HE3	1.70	0.74
1:A:880:LYS:HB2	1:A:890:LYS:HB3	1.69	0.74
1:A:1345:TRP:CZ2	1:A:1400:PHE:HE2	2.05	0.74
2:B:2183:PRO:O	2:B:2187:THR:HG23	1.87	0.74
2:B:2508:ILE:O	2:B:2511:LEU:HG	1.87	0.74
2:B:2538:ILE:HD12	2:B:2577:MET:CE	1.81	0.74
2:B:2962:CYS:HB3	2:B:3143:PRO:HD3	1.68	0.74
1:C:487:PHE:HB3	1:C:488:PRO:HD3	1.70	0.74
1:C:1484:GLN:NE2	2:D:2065:ILE:CD1	2.50	0.74
1:C:1525:ASN:OD1	1:C:1527:GLU:HG3	1.88	0.74
1:C:1614:ASN:HA	2:D:2779:LYS:HE3	1.69	0.74
1:C:1648:PHE:HB3	2:D:1903:ASN:O	1.87	0.74
2:D:2159:GLN:HG2	2:D:2336:ASN:ND2	2.03	0.74
2:D:2646:PHE:CZ	2:D:2676:TRP:HZ3	2.05	0.74
2:D:2950:ASN:HB3	2:D:2960:TYR:O	1.86	0.74
2:D:3056:LEU:O	2:D:3056:LEU:HD13	1.87	0.74
1:A:1249:GLN:CG	1:A:1476:TYR:HB3	2.16	0.74
1:A:1618:LEU:HD11	2:B:1906:VAL:CG2	2.17	0.74
2:B:1759:TRP:CH2	2:B:1877:HIS:HB2	2.23	0.74
2:B:2385:PHE:HB2	2:B:2483:ILE:HB	1.67	0.74
2:B:3039:ILE:HG22	2:B:3040:PHE:H	1.51	0.74
1:C:566:LEU:HD11	1:C:608:TRP:CD2	2.23	0.74
1:C:1549:VAL:H	1:C:1608:THR:CG2	1.98	0.74
2:D:2243:ALA:HA	2:D:2246:GLN:HE21	1.50	0.74
2:D:3347:ALA:O	2:D:3350:LYS:HD3	1.88	0.74
1:A:165:GLN:OE1	1:A:170:LYS:HG3	1.87	0.74
1:A:1568:VAL:CG1	1:A:1622:PHE:HB2	2.17	0.74
2:B:1811:LEU:HG	2:B:1853:TRP:HZ3	1.49	0.74
1:C:241:LEU:HD11	1:C:265:ALA:CB	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:668:LYS:HB3	1:C:669:PRO:HA	1.70	0.74
1:C:1356:ILE:HG13	1:C:1357:SER:N	2.02	0.74
2:D:2115:PHE:HA	2:D:2118:ILE:HG22	1.69	0.74
2:D:3056:LEU:HD11	2:D:3191:LEU:HD23	1.68	0.74
2:D:3102:PHE:CZ	2:D:3106:HIS:CE1	2.75	0.74
1:A:464:LEU:CD2	1:A:767:LYS:HE3	2.18	0.74
1:A:469:PRO:HG3	1:A:477:TYR:CD2	2.22	0.74
1:A:1142:PHE:HD1	1:A:1195:ILE:HG21	1.52	0.74
1:C:59:ILE:CG2	1:C:62:MET:HB2	2.17	0.74
1:C:1568:VAL:CG1	1:C:1622:PHE:HB2	2.17	0.74
2:D:2604:THR:HA	2:D:2607:THR:CG2	2.17	0.74
2:D:2605:PHE:HE2	2:D:2614:PHE:CE2	2.05	0.74
2:D:3216:LYS:HG2	2:D:3218:TYR:CZ	2.23	0.74
1:A:241:LEU:HD11	1:A:265:ALA:HB2	1.69	0.74
1:A:387:ASN:OD1	1:A:389:THR:HG22	1.87	0.74
1:A:521:THR:HA	1:A:567:PHE:CD1	2.22	0.74
1:A:1322:LEU:HD11	1:A:1506:HIS:HB3	1.69	0.74
1:A:1436:LYS:HD2	1:A:1437:TYR:HE1	1.52	0.74
2:B:1729:THR:HG21	2:B:1913:LEU:HD21	1.70	0.74
2:B:1985:SER:CB	2:B:2050:TYR:OH	2.36	0.74
2:B:2106:LEU:HD11	2:B:2161:LEU:HD11	1.69	0.74
2:B:2115:PHE:O	2:B:2118:ILE:HG22	1.88	0.74
2:B:2377:ASP:HA	2:B:2380:HIS:ND1	2.03	0.74
2:B:2628:ARG:NH2	2:B:2696:LEU:HB2	2.01	0.74
2:B:2646:PHE:CZ	2:B:2676:TRP:HZ3	2.05	0.74
1:C:21:ALA:HA	1:C:24:ARG:HD3	1.70	0.74
1:C:464:LEU:CD2	1:C:767:LYS:HE3	2.18	0.74
1:C:999:LEU:HD13	1:C:1129:LEU:HD21	1.70	0.74
2:D:2539:ALA:O	2:D:2692:THR:HG21	1.88	0.74
2:D:2810:SER:HB3	2:D:2822:PHE:HE1	1.53	0.74
2:D:3321:LYS:O	2:D:3324:THR:HG23	1.88	0.74
1:A:1002:ASP:OD2	1:A:1065:LYS:HE3	1.87	0.73
1:A:1395:PHE:CZ	1:A:1430:LEU:HB3	2.23	0.73
2:B:1953:ALA:HB3	2:B:1955:TRP:HZ3	1.52	0.73
2:B:2130:ASP:HB3	2:B:2132:HIS:ND1	2.01	0.73
2:B:2175:TRP:HD1	2:B:2236:LEU:HG	1.53	0.73
2:B:2255:GLN:O	2:B:2258:VAL:HG12	1.87	0.73
2:B:2472:LEU:HD22	2:B:2473:PRO:CD	2.16	0.73
2:B:3216:LYS:HG2	2:B:3218:TYR:CZ	2.23	0.73
1:C:1345:TRP:CZ2	1:C:1400:PHE:HE2	2.05	0.73
1:C:1395:PHE:CZ	1:C:1430:LEU:HB3	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1554:LEU:HG	1:C:1602:LEU:CD2	2.17	0.73
2:D:2385:PHE:HB2	2:D:2483:ILE:HB	1.67	0.73
1:A:441:GLU:O	1:A:445:LYS:HG2	1.88	0.73
1:A:487:PHE:HB3	1:A:488:PRO:HD3	1.70	0.73
2:B:1747:LYS:HZ1	2:D:2094:ARG:NE	1.84	0.73
2:B:1909:MET:CE	2:B:1938:PHE:CZ	2.66	0.73
2:B:2321:LEU:HD22	2:B:2321:LEU:H	1.52	0.73
2:B:3094:GLU:OE2	2:B:3239:ALA:HB3	1.88	0.73
1:C:1124:LEU:HD22	1:C:1128:GLN:CG	2.17	0.73
1:C:1427:LEU:HD11	1:C:1431:LEU:CD1	2.18	0.73
2:D:1909:MET:CE	2:D:1938:PHE:CZ	2.66	0.73
2:D:2154:THR:HA	2:D:2288:PHE:CE2	2.23	0.73
2:D:3144:PHE:HD2	2:D:3155:THR:CG2	2.01	0.73
2:D:3160:LEU:HD22	2:D:3161:PRO:HD2	1.70	0.73
1:A:1011:TYR:OH	1:A:1049:THR:HG22	1.88	0.73
1:A:1398:ASP:OD1	1:A:1401:TYR:HB3	1.88	0.73
1:A:1525:ASN:OD1	1:A:1527:GLU:HG3	1.88	0.73
2:B:1670:ASP:HB3	2:B:1673:GLN:HG3	1.71	0.73
2:B:1757:TRP:HB2	2:B:1876:ILE:HG21	1.68	0.73
2:B:1973:VAL:HG22	2:B:2027:THR:HA	1.70	0.73
2:B:3189:GLU:HA	2:B:3192:ARG:HD3	1.68	0.73
2:B:3248:ARG:CZ	2:B:3320:VAL:HG21	2.18	0.73
1:C:1520:GLY:O	1:C:1521:TYR:CD1	2.42	0.73
2:D:2115:PHE:O	2:D:2118:ILE:HG22	1.88	0.73
1:A:318:VAL:HG11	1:A:341:PHE:CE1	2.24	0.73
1:A:566:LEU:HD11	1:A:608:TRP:CD2	2.23	0.73
1:A:906:ARG:O	1:A:909:THR:HG22	1.88	0.73
1:A:1251:GLU:O	1:A:1516:GLN:HB2	1.87	0.73
2:B:2154:THR:HA	2:B:2288:PHE:CE2	2.23	0.73
2:B:2560:THR:HB	2:B:2563:MET:HE3	1.70	0.73
2:B:3321:LYS:O	2:B:3324:THR:HG23	1.88	0.73
2:B:3347:ALA:HB2	2:D:3315:PRO:CG	2.19	0.73
1:C:152:HIS:HA	1:C:156:MET:SD	2.27	0.73
1:C:469:PRO:HG3	1:C:477:TYR:CD2	2.22	0.73
1:C:989:THR:CG2	1:C:991:ILE:HG22	2.17	0.73
2:D:1847:HIS:ND1	2:D:1881:THR:HG21	1.99	0.73
2:D:1985:SER:CB	2:D:2050:TYR:OH	2.36	0.73
2:D:2214:THR:HG22	2:D:2215:TYR:H	1.53	0.73
2:D:2893:LYS:HG2	2:D:2894:HIS:H	1.53	0.73
1:A:1153:LYS:CG	1:A:1176:LEU:HD21	2.12	0.73
2:B:1914:LYS:HD3	2:B:1918:PHE:HE1	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:LEU:HD13	1:C:85:ARG:NE	2.04	0.73
1:C:1361:TYR:HE2	1:C:1365:ARG:NH1	1.87	0.73
2:D:1914:LYS:HD3	2:D:1918:PHE:HE1	1.54	0.73
2:D:1969:GLU:HA	2:D:2073:ASP:OD1	1.89	0.73
2:D:2183:PRO:O	2:D:2187:THR:HG23	1.87	0.73
2:D:2962:CYS:SG	2:D:3143:PRO:HD3	2.29	0.73
2:D:3183:ASN:ND2	2:D:3186:GLU:HB2	2.04	0.73
1:A:123:TRP:CZ3	1:A:208:LEU:HD21	2.22	0.73
1:A:724:GLN:NE2	1:A:828:LYS:HE3	1.84	0.73
1:A:912:SER:HB2	1:A:1043:TYR:CE1	2.23	0.73
1:A:1057:GLN:HB2	1:A:1067:TYR:HB2	1.69	0.73
1:A:1356:ILE:HG13	1:A:1357:SER:N	2.02	0.73
1:A:1515:TYR:CE2	1:A:1521:TYR:CA	2.72	0.73
2:B:1707:LEU:HA	2:B:1709:PRO:HD3	1.69	0.73
2:B:2327:ARG:HB3	2:B:2328:PRO:HA	1.69	0.73
2:B:2500:ALA:HB2	2:B:3131:SER:HA	1.70	0.73
2:B:3028:ASN:O	2:B:3029:GLN:HG3	1.89	0.73
1:C:234:MET:CE	1:C:241:LEU:HD23	2.18	0.73
1:C:912:SER:HB2	1:C:1043:TYR:CE1	2.23	0.73
1:C:1161:ILE:CD1	1:C:1198:LYS:HE2	2.17	0.73
1:C:1371:THR:O	1:C:1373:PRO:HD3	1.89	0.73
1:C:1484:GLN:HE22	2:D:2065:ILE:HB	1.51	0.73
2:D:1729:THR:HG21	2:D:1913:LEU:HD21	1.70	0.73
2:D:2132:HIS:CD2	2:D:2134:ASN:HB2	2.23	0.73
2:D:2327:ARG:HB3	2:D:2328:PRO:HA	1.69	0.73
2:D:2401:PHE:CE1	2:D:2460:ILE:HG12	2.22	0.73
2:D:3340:LEU:HD21	2:D:3343:GLY:HA2	1.71	0.73
1:A:241:LEU:HD11	1:A:265:ALA:CB	2.18	0.73
1:A:1515:TYR:HE2	1:A:1521:TYR:O	1.69	0.73
2:B:3144:PHE:HD2	2:B:3155:THR:CG2	2.01	0.73
1:C:130:PHE:CD2	1:C:131:LEU:HG	2.23	0.73
1:C:1091:ASN:O	1:C:1097:LYS:NZ	2.20	0.73
1:C:1398:ASP:OD1	1:C:1401:TYR:HB3	1.88	0.73
1:C:1566:VAL:HG22	1:C:1626:ILE:HA	1.71	0.73
2:D:1670:ASP:HB3	2:D:1673:GLN:HG3	1.70	0.73
2:D:1931:PHE:HE1	2:D:1942:LYS:HD3	1.53	0.73
2:D:2173:TRP:HE3	2:D:2286:ILE:HD11	1.53	0.73
2:D:3048:PHE:CD2	2:D:3052:PHE:HB3	2.24	0.73
1:A:668:LYS:HB3	1:A:669:PRO:HA	1.70	0.73
1:A:1361:TYR:HE2	1:A:1365:ARG:NH1	1.87	0.73
2:B:2962:CYS:SG	2:B:3143:PRO:HD3	2.29	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:441:GLU:O	1:C:445:LYS:HG2	1.88	0.73
1:C:1251:GLU:O	1:C:1516:GLN:HB2	1.87	0.73
2:D:1707:LEU:HD21	2:D:2012:LYS:HG3	1.70	0.73
2:D:1988:VAL:HG21	2:D:2005:PHE:CZ	2.24	0.73
2:D:2546:PRO:HB2	2:D:2555:ASN:ND2	2.03	0.73
2:D:3265:ASP:HB2	2:D:3292:ILE:HD12	1.69	0.73
1:A:1566:VAL:HG22	1:A:1626:ILE:HA	1.71	0.73
1:A:1628:ILE:HG21	1:A:1636:LEU:HB2	1.71	0.73
1:A:1657:THR:HA	2:B:1901:GLU:CD	2.12	0.73
2:B:1773:SER:HA	2:B:1789:ILE:CD1	2.17	0.73
2:B:2159:GLN:HG2	2:B:2336:ASN:ND2	2.03	0.73
2:B:2544:ASN:HB2	2:B:2689:GLU:OE1	1.87	0.73
2:B:2732:MET:HE2	2:B:2759:PHE:CE2	2.24	0.73
2:B:3347:ALA:O	2:B:3350:LYS:HD3	1.88	0.73
1:C:171:PHE:CE2	1:C:175:PHE:HB2	2.24	0.73
1:C:1416:PHE:HE2	1:C:1420:LEU:HD22	1.53	0.73
2:D:2243:ALA:HA	2:D:2246:GLN:NE2	2.04	0.73
2:D:3219:ILE:HD13	2:D:3271:ARG:HD3	1.68	0.73
1:A:94:TRP:CD1	1:A:155:LEU:HD22	2.18	0.73
1:A:620:LEU:CD1	1:A:768:GLU:HB3	2.18	0.73
1:A:999:LEU:HD13	1:A:1129:LEU:HD21	1.69	0.73
2:B:2633:LYS:HA	2:B:2633:LYS:HZ2	1.52	0.73
2:B:3048:PHE:CD2	2:B:3052:PHE:HB3	2.24	0.73
1:C:273:LEU:CD2	1:C:275:TYR:HE2	2.02	0.73
1:C:1278:LEU:HB3	1:C:1373:PRO:HG2	1.69	0.73
1:A:171:PHE:CE2	1:A:175:PHE:HB2	2.24	0.72
1:A:956:HIS:O	1:A:958:PRO:HD3	1.89	0.72
1:A:1083:PRO:HA	1:A:1086:LEU:CD1	2.18	0.72
1:A:1362:TYR:CE2	1:A:1364:SER:HA	2.24	0.72
1:A:1427:LEU:HD11	1:A:1431:LEU:CD1	2.18	0.72
2:B:2307:LYS:HE3	2:B:2369:HIS:CA	2.19	0.72
1:C:241:LEU:HD11	1:C:265:ALA:HB2	1.69	0.72
1:C:250:TRP:CZ3	1:C:252:ASP:HB2	2.23	0.72
1:C:579:PHE:CZ	1:C:718:MET:HE1	2.24	0.72
1:C:1011:TYR:OH	1:C:1049:THR:HG22	1.88	0.72
2:D:2142:GLY:HA3	2:D:2427:TRP:CD2	2.24	0.72
2:D:2377:ASP:HA	2:D:2380:HIS:ND1	2.03	0.72
1:A:130:PHE:CD2	1:A:131:LEU:HG	2.23	0.72
1:A:1371:THR:O	1:A:1373:PRO:HD3	1.89	0.72
2:B:1990:PHE:HB3	2:B:2045:VAL:HG22	1.69	0.72
2:B:2539:ALA:O	2:B:2692:THR:HG21	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3243:PRO:HG2	2:D:3354:PRO:CA	2.19	0.72
1:C:8:VAL:CG1	1:C:104:LEU:HD12	2.15	0.72
1:C:148:LYS:CD	1:C:150:GLY:O	2.36	0.72
2:D:1773:SER:HA	2:D:1789:ILE:CD1	2.17	0.72
1:A:1242:HIS:HB3	1:A:1476:TYR:CE1	2.22	0.72
1:A:1416:PHE:HE2	1:A:1420:LEU:HD22	1.53	0.72
1:A:1549:VAL:H	1:A:1608:THR:CG2	1.98	0.72
1:A:1549:VAL:HG22	1:A:1607:ILE:HD11	1.72	0.72
2:B:1694:SER:CA	2:D:2101:TYR:CE2	2.71	0.72
2:B:2132:HIS:CD2	2:B:2134:ASN:HB2	2.24	0.72
2:B:2546:PRO:HB2	2:B:2555:ASN:ND2	2.03	0.72
2:B:2735:PRO:HG3	2:B:2754:LYS:HE3	1.70	0.72
2:B:2974:HIS:HE1	3:B:9008:CUO:O2	1.68	0.72
1:C:1036:THR:HG22	1:C:1042:PHE:CD2	2.19	0.72
1:C:1057:GLN:HB2	1:C:1067:TYR:HB2	1.69	0.72
1:C:1293:HIS:CE1	1:C:1451:PHE:HE2	2.07	0.72
2:D:1990:PHE:HB3	2:D:2045:VAL:HG22	1.69	0.72
2:D:2258:VAL:CG2	2:D:2416:ILE:HG23	2.20	0.72
2:D:2546:PRO:HB2	2:D:2555:ASN:CG	2.14	0.72
2:D:3248:ARG:CZ	2:D:3320:VAL:HG21	2.18	0.72
1:A:19:LEU:HD13	1:A:85:ARG:NE	2.03	0.72
2:B:1707:LEU:HD21	2:B:2012:LYS:HG3	1.70	0.72
2:B:1953:ALA:HB3	2:B:1955:TRP:CZ3	2.25	0.72
2:B:2193:ASP:O	2:B:2194:VAL:HG23	1.89	0.72
2:B:2387:GLY:CA	2:B:2432:LEU:HD21	2.14	0.72
1:C:956:HIS:O	1:C:958:PRO:HD3	1.89	0.72
1:C:1083:PRO:HA	1:C:1086:LEU:CD1	2.18	0.72
1:C:1142:PHE:HD1	1:C:1195:ILE:HG21	1.52	0.72
1:C:1153:LYS:HA	1:C:1176:LEU:HD23	1.71	0.72
2:D:3028:ASN:O	2:D:3029:GLN:HG3	1.89	0.72
2:D:3044:LYS:HG3	2:D:3045:PHE:H	1.52	0.72
1:A:234:MET:CE	1:A:241:LEU:HD23	2.18	0.72
1:A:273:LEU:CD2	1:A:275:TYR:HE2	2.02	0.72
1:A:462:HIS:HD2	1:A:480:CYS:HB2	1.52	0.72
1:A:698:LEU:HD12	1:A:700:TYR:CD1	2.23	0.72
1:A:1023:GLY:HA2	1:A:1026:GLN:NE2	2.05	0.72
1:A:1161:ILE:CD1	1:A:1198:LYS:HE2	2.17	0.72
1:A:1257:ARG:HG3	1:A:1521:TYR:HE1	0.87	0.72
1:A:1442:LEU:CA	1:A:1589:LEU:HD11	2.20	0.72
2:B:2387:GLY:C	2:B:2432:LEU:HD11	2.14	0.72
2:B:3312:VAL:HG12	2:B:3389:LEU:HD23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:LEU:HD12	1:C:211:SER:HG	1.54	0.72
1:C:810:LEU:HD21	1:C:814:LEU:CD2	2.19	0.72
2:D:2153:TYR:CZ	2:D:2157:PHE:HE1	2.08	0.72
2:D:2387:GLY:C	2:D:2432:LEU:HD11	2.14	0.72
2:D:2732:MET:HE2	2:D:2759:PHE:CE2	2.24	0.72
2:D:3312:VAL:HG12	2:D:3389:LEU:HD23	1.71	0.72
1:A:174:GLN:HA	1:A:358:TYR:HE1	1.54	0.72
1:A:576:THR:CG2	1:A:579:PHE:HB2	2.20	0.72
2:B:1969:GLU:HA	2:B:2073:ASP:OD1	1.89	0.72
2:B:1988:VAL:HG21	2:B:2005:PHE:CZ	2.24	0.72
2:B:2546:PRO:HB2	2:B:2555:ASN:CG	2.13	0.72
2:B:3240:LYS:H	2:B:3240:LYS:HD2	1.54	0.72
2:B:3338:PRO:HB3	2:B:3358:PHE:HE1	1.54	0.72
1:C:541:THR:O	1:C:543:PRO:HD3	1.90	0.72
1:C:746:PHE:CZ	1:C:799:THR:HB	2.24	0.72
1:C:880:LYS:HB2	1:C:890:LYS:HB3	1.69	0.72
2:D:1953:ALA:HB3	2:D:1955:TRP:HZ3	1.52	0.72
2:D:1973:VAL:HG22	2:D:2027:THR:HA	1.70	0.72
2:D:2258:VAL:HG11	2:D:2433:PHE:CZ	2.25	0.72
2:D:2387:GLY:CA	2:D:2432:LEU:HD21	2.13	0.72
2:D:3094:GLU:OE2	2:D:3239:ALA:HB3	1.89	0.72
1:A:250:TRP:CZ3	1:A:252:ASP:HB2	2.23	0.72
1:A:1239:ARG:NH2	1:A:1242:HIS:CE1	2.58	0.72
2:B:2105:SER:HB3	2:D:1693:HIS:NE2	2.05	0.72
2:B:3136:ILE:CD1	2:D:3345:TYR:OH	2.37	0.72
1:C:174:GLN:HA	1:C:358:TYR:HE1	1.54	0.72
1:C:698:LEU:HD12	1:C:700:TYR:CD1	2.23	0.72
1:C:1491:GLN:NE2	1:C:1495:LYS:HE2	2.05	0.72
2:D:2246:GLN:NE2	2:D:2252:PHE:HA	2.05	0.72
1:A:156:MET:HE3	1:A:285:MET:CE	2.20	0.72
1:A:497:GLN:HE22	1:A:679:ASN:HB2	1.54	0.72
1:A:1327:VAL:HG11	1:A:1452:PHE:HE1	1.49	0.72
2:B:1854:VAL:HG21	2:B:1862:ILE:HG13	1.72	0.72
2:B:2172:TYR:CD2	2:B:2293:PHE:HD1	2.08	0.72
2:B:2195:TRP:HB2	2:D:1922:TYR:CA	2.18	0.72
2:B:2279:HIS:HE2	2:B:2280:TYR:HE2	1.37	0.72
2:B:2976:LEU:HD22	2:B:3144:PHE:CE2	2.25	0.72
2:B:3044:LYS:HG3	2:B:3045:PHE:H	1.53	0.72
1:C:65:PHE:HB3	1:C:66:PRO:HD3	1.69	0.72
1:C:318:VAL:HG11	1:C:341:PHE:CE1	2.24	0.72
1:C:551:PHE:HE1	1:C:625:PHE:CZ	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:ARG:HG2	1:C:702:TYR:CD1	2.24	0.72
1:C:749:THR:CG2	1:C:753:VAL:H	2.02	0.72
1:C:1395:PHE:CE1	1:C:1430:LEU:HD23	2.25	0.72
1:C:1483:ILE:HD13	2:D:2037:HIS:HB2	1.71	0.72
1:C:1621:ASP:HB3	2:D:1910:LYS:HG2	1.72	0.72
1:C:1622:PHE:HZ	1:C:1646:ILE:CD1	2.01	0.72
2:D:1707:LEU:HA	2:D:1709:PRO:HD3	1.69	0.72
2:D:2907:LEU:HD21	2:D:2986:LYS:HD3	1.70	0.72
2:D:2976:LEU:HD22	2:D:3144:PHE:CE2	2.25	0.72
1:A:1395:PHE:CE1	1:A:1430:LEU:HD23	2.25	0.72
1:A:1422:ILE:HG13	1:A:1603:TYR:CD1	2.25	0.72
1:A:1491:GLN:NE2	1:A:1495:LYS:HE2	2.04	0.72
2:B:2142:GLY:HA3	2:B:2427:TRP:CD2	2.24	0.72
2:B:2153:TYR:CZ	2:B:2157:PHE:HE1	2.08	0.72
2:B:2494:HIS:CE1	2:B:3125:LYS:CG	2.73	0.72
1:C:876:HIS:CE1	1:C:1042:PHE:HE2	2.08	0.72
1:C:1467:ASP:O	1:C:1470:ARG:HG2	1.90	0.72
1:C:1657:THR:CB	2:D:1898:SER:OG	2.38	0.72
2:D:1737:TYR:CZ	2:D:1741:PHE:HE1	2.08	0.72
2:D:1769:LEU:O	2:D:1786:ASN:ND2	2.22	0.72
2:D:2172:TYR:CD2	2:D:2293:PHE:HD1	2.08	0.72
2:D:2320:SER:O	2:D:2323:THR:HG22	1.89	0.72
2:D:2526:VAL:HG21	2:D:2581:LEU:CD2	2.17	0.72
2:D:3177:LEU:HD23	2:D:3184:ILE:HG23	1.71	0.72
1:A:21:ALA:HA	1:A:24:ARG:HD3	1.70	0.72
1:A:70:ARG:CD	1:A:267:LEU:HD11	2.20	0.72
1:A:383:LEU:HD21	1:A:391:LEU:HD22	1.72	0.72
1:A:638:ARG:O	1:A:642:VAL:HG23	1.88	0.72
1:A:810:LEU:HD21	1:A:814:LEU:CD2	2.19	0.72
1:A:1618:LEU:CD2	2:B:1906:VAL:CG1	2.45	0.72
2:B:2096:ILE:CG1	2:B:2185:LEU:HD12	2.10	0.72
2:B:3123:ARG:O	2:B:3124:VAL:HG12	1.90	0.72
2:B:3160:LEU:HD22	2:B:3161:PRO:HD2	1.70	0.72
1:C:1442:LEU:CA	1:C:1589:LEU:HD11	2.20	0.72
1:C:1538:HIS:ND1	2:D:2498:SER:HB3	2.03	0.72
1:A:7:SER:HB3	1:A:10:HIS:ND1	2.05	0.71
1:A:860:LEU:HA	1:A:919:HIS:CE1	2.25	0.71
1:A:910:VAL:HG11	1:A:1112:PHE:CD2	2.25	0.71
1:A:1293:HIS:CE1	1:A:1451:PHE:HE2	2.07	0.71
2:B:2258:VAL:HG11	2:B:2433:PHE:CZ	2.25	0.71
2:B:2500:ALA:HB1	2:B:3131:SER:CA	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3316:PRO:CB	2:B:3392:HIS:HB3	2.12	0.71
1:C:1274:ARG:HA	1:C:1374:PHE:CE1	2.24	0.71
1:C:1532:SER:O	1:C:1536:LEU:HD22	1.90	0.71
2:D:1730:PHE:HB3	2:D:1731:PRO:HD3	1.72	0.71
2:D:1931:PHE:CZ	2:D:1942:LYS:HB3	2.25	0.71
2:D:1953:ALA:HB3	2:D:1955:TRP:CZ3	2.25	0.71
2:D:3123:ARG:O	2:D:3124:VAL:HG12	1.90	0.71
1:A:541:THR:O	1:A:543:PRO:HD3	1.90	0.71
1:A:638:ARG:HG2	1:A:702:TYR:CD1	2.24	0.71
1:A:876:HIS:CE1	1:A:1042:PHE:HE2	2.08	0.71
1:A:1153:LYS:HA	1:A:1176:LEU:HD23	1.71	0.71
2:B:2173:TRP:CZ3	2:B:2286:ILE:HD11	2.25	0.71
2:B:2664:VAL:O	2:B:2668:ILE:HD13	1.90	0.71
1:C:70:ARG:CD	1:C:267:LEU:HD11	2.20	0.71
1:C:83:LYS:HE2	1:C:83:LYS:HA	1.72	0.71
1:C:560:ARG:NE	1:C:609:THR:HB	2.05	0.71
1:C:712:LEU:O	1:C:715:ILE:HG22	1.91	0.71
1:C:1484:GLN:CD	2:D:2065:ILE:HD13	2.15	0.71
2:D:2735:PRO:HG3	2:D:2754:LYS:HE3	1.70	0.71
1:A:1316:PHE:HB3	1:A:1317:PRO:HD3	1.73	0.71
1:A:1656:HIS:HA	2:B:1898:SER:CB	2.14	0.71
2:B:1737:TYR:CZ	2:B:1741:PHE:HE1	2.08	0.71
2:B:1769:LEU:O	2:B:1786:ASN:ND2	2.22	0.71
2:B:1815:SER:HB3	2:B:1820:HIS:NE2	2.05	0.71
2:B:3291:ILE:HG22	2:B:3305:GLU:OE2	1.90	0.71
1:C:383:LEU:HD21	1:C:391:LEU:HD22	1.72	0.71
1:C:1628:ILE:HG21	1:C:1636:LEU:HB2	1.71	0.71
2:D:3160:LEU:CD1	2:D:3162:ASN:H	2.03	0.71
1:A:366:VAL:HG12	1:A:371:MET:O	1.90	0.71
1:A:409:PHE:CD2	2:B:3186:GLU:OE1	2.43	0.71
1:A:1334:LYS:HE2	1:A:1334:LYS:CA	2.20	0.71
2:B:1730:PHE:HB3	2:B:1731:PRO:HD3	1.72	0.71
2:B:2214:THR:HG22	2:B:2215:TYR:H	1.53	0.71
2:B:2258:VAL:CG2	2:B:2416:ILE:HG23	2.20	0.71
2:B:2526:VAL:HG21	2:B:2581:LEU:CD2	2.17	0.71
2:B:3160:LEU:CD1	2:B:3162:ASN:H	2.03	0.71
1:C:1575:HIS:HA	2:D:2783:HIS:HB2	1.73	0.71
2:D:1852:THR:HG23	2:D:1853:TRP:HD1	1.56	0.71
2:D:1973:VAL:CG2	2:D:2027:THR:HA	2.20	0.71
2:D:2185:LEU:HD22	2:D:2185:LEU:H	1.56	0.71
1:A:317:ASN:O	1:A:383:LEU:HD12	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:PHE:HE1	1:A:625:PHE:CZ	2.08	0.71
1:A:579:PHE:CZ	1:A:718:MET:HE1	2.24	0.71
2:B:1757:TRP:HE1	2:B:1763:ARG:CD	2.04	0.71
2:B:2246:GLN:NE2	2:B:2252:PHE:HA	2.05	0.71
2:B:2497:SER:HB3	2:B:3397:ASP:OD2	1.90	0.71
1:C:7:SER:HB3	1:C:10:HIS:ND1	2.05	0.71
1:C:458:THR:HA	1:C:461:TYR:CE1	2.26	0.71
2:D:1707:LEU:HD23	2:D:1709:PRO:CG	2.19	0.71
2:D:1757:TRP:HE1	2:D:1763:ARG:CD	2.04	0.71
2:D:1815:SER:HB3	2:D:1820:HIS:NE2	2.05	0.71
2:D:2193:ASP:O	2:D:2194:VAL:HG23	1.89	0.71
1:A:1372:ASN:OD1	1:A:1374:PHE:HB2	1.91	0.71
2:B:2243:ALA:HA	2:B:2246:GLN:NE2	2.04	0.71
2:B:2493:ASP:OD2	2:B:3124:VAL:HG21	1.91	0.71
2:B:2606:VAL:HG11	2:B:2628:ARG:NH2	2.05	0.71
2:B:3075:HIS:HB2	2:B:3109:LEU:HD12	1.73	0.71
2:B:3183:ASN:ND2	2:B:3186:GLU:HB2	2.04	0.71
1:C:317:ASN:O	1:C:383:LEU:HD12	1.90	0.71
1:C:462:HIS:CE1	1:C:629:PHE:CZ	2.79	0.71
1:C:566:LEU:HD11	1:C:608:TRP:CE3	2.25	0.71
1:C:1013:ILE:HD12	1:C:1014:ALA:N	2.06	0.71
1:C:1325:VAL:HG21	1:C:1519:PHE:CE1	2.25	0.71
1:C:1334:LYS:HE2	1:C:1334:LYS:CA	2.20	0.71
1:C:1362:TYR:CE2	1:C:1364:SER:HA	2.25	0.71
2:D:1757:TRP:HE1	2:D:1763:ARG:HD2	1.56	0.71
2:D:2571:ARG:HH21	2:D:2761:TYR:HB3	1.56	0.71
2:D:2606:VAL:HG11	2:D:2628:ARG:NH2	2.05	0.71
2:D:3325:LYS:CG	2:D:3367:TYR:HB2	2.20	0.71
1:A:59:ILE:HG22	1:A:62:MET:HB2	1.72	0.71
1:A:179:HIS:CE1	1:A:209:HIS:NE2	2.59	0.71
1:A:566:LEU:HD11	1:A:608:TRP:CE3	2.26	0.71
1:A:769:MET:HA	1:A:769:MET:CE	2.18	0.71
1:A:1467:ASP:O	1:A:1470:ARG:HG2	1.90	0.71
2:B:1670:ASP:H	2:B:1673:GLN:NE2	1.89	0.71
2:B:1931:PHE:CZ	2:B:1942:LYS:HB3	2.25	0.71
2:B:1973:VAL:CG2	2:B:2027:THR:HA	2.20	0.71
2:B:1979:LEU:HB2	2:B:2018:PHE:CD2	2.25	0.71
2:B:2320:SER:O	2:B:2323:THR:HG22	1.89	0.71
2:B:2577:MET:HG3	2:B:2698:TRP:HE1	0.75	0.71
2:B:3136:ILE:H	2:B:3136:ILE:HD12	1.56	0.71
1:C:411:ASP:HB3	1:C:655:ARG:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1239:ARG:NH2	1:C:1242:HIS:CE1	2.58	0.71
1:C:1405:LEU:HD11	1:C:1540:LEU:HD23	1.73	0.71
2:D:1757:TRP:HZ3	2:D:1873:LEU:CD1	2.02	0.71
2:D:1851:HIS:HA	2:D:1862:ILE:CG2	2.21	0.71
1:A:60:HIS:CD2	1:A:65:PHE:CE2	2.79	0.71
1:A:466:ALA:HB1	1:A:477:TYR:O	1.91	0.71
1:A:712:LEU:O	1:A:715:ILE:HG22	1.91	0.71
2:B:2195:TRP:CE3	2:D:1922:TYR:HE1	1.99	0.71
2:B:3274:LEU:HD11	2:B:3281:GLU:OE2	1.91	0.71
2:B:3308:ILE:HA	2:B:3329:MET:CB	2.19	0.71
2:B:3338:PRO:HB3	2:B:3358:PHE:CE1	2.25	0.71
2:D:2146:PHE:HB3	2:D:2147:PRO:HD3	1.72	0.71
1:A:83:LYS:HE2	1:A:83:LYS:HA	1.72	0.71
1:A:230:ASP:OD1	1:A:231:PRO:HD2	1.91	0.71
1:A:1151:PHE:C	1:A:1153:LYS:HD2	2.16	0.71
1:A:1405:LEU:HD11	1:A:1540:LEU:HD23	1.72	0.71
2:B:1931:PHE:CE1	2:B:1942:LYS:HB3	2.26	0.71
2:B:3177:LEU:HD23	2:B:3184:ILE:HG23	1.71	0.71
2:B:3325:LYS:CG	2:B:3367:TYR:HB2	2.20	0.71
2:B:3340:LEU:HD21	2:B:3343:GLY:HA2	1.71	0.71
1:C:366:VAL:HG12	1:C:371:MET:O	1.90	0.71
1:C:1233:SER:CB	2:D:2320:SER:HB3	2.19	0.71
2:D:2713:ALA:HB1	2:D:2778:ILE:HD13	1.73	0.71
1:A:1325:VAL:HG21	1:A:1519:PHE:CE1	2.24	0.71
1:A:1618:LEU:HD12	2:B:1906:VAL:HG21	1.73	0.71
1:A:1646:ILE:HD13	2:B:1906:VAL:CG2	2.21	0.71
2:B:2713:ALA:HB1	2:B:2778:ILE:HD13	1.73	0.71
1:C:497:GLN:HE22	1:C:679:ASN:HB2	1.54	0.71
1:C:815:ILE:HG22	1:C:816:PRO:O	1.90	0.71
1:C:860:LEU:HA	1:C:919:HIS:CE1	2.25	0.71
2:D:2307:LYS:HE3	2:D:2369:HIS:CA	2.19	0.71
2:D:3338:PRO:HB3	2:D:3358:PHE:CE1	2.25	0.71
1:A:749:THR:CG2	1:A:753:VAL:H	2.02	0.70
1:A:891:PHE:HB2	1:A:1183:MET:CE	2.21	0.70
1:A:1093:ASP:OD2	1:A:1096:THR:HG23	1.91	0.70
2:B:1956:SER:O	2:B:1960:ILE:HG12	1.91	0.70
2:B:2185:LEU:H	2:B:2185:LEU:HD22	1.56	0.70
2:B:3071:TYR:CZ	2:B:3109:LEU:HD22	2.25	0.70
1:C:891:PHE:HB2	1:C:1183:MET:CE	2.21	0.70
1:C:910:VAL:HG11	1:C:1112:PHE:CD2	2.25	0.70
1:C:1242:HIS:CG	1:C:1476:TYR:OH	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1422:ILE:HG13	1:C:1603:TYR:CD1	2.25	0.70
1:A:495:VAL:O	1:A:498:VAL:HG12	1.91	0.70
1:A:973:ARG:HA	1:A:1026:GLN:HE22	1.55	0.70
1:A:1086:LEU:CD2	1:A:1090:ILE:HD13	2.16	0.70
1:A:1532:SER:O	1:A:1536:LEU:HD22	1.90	0.70
2:B:1693:HIS:C	2:D:2101:TYR:CE2	2.69	0.70
2:B:2103:LEU:HD12	2:B:2204:PHE:CD1	2.26	0.70
1:C:60:HIS:CD2	1:C:65:PHE:CE2	2.79	0.70
1:C:127:ASN:OD1	1:C:134:LYS:HD2	1.91	0.70
1:C:160:LEU:HD21	1:C:297:ARG:HD2	1.73	0.70
1:C:576:THR:CG2	1:C:579:PHE:HB2	2.20	0.70
1:C:1023:GLY:HA2	1:C:1026:GLN:NE2	2.05	0.70
1:C:1189:ARG:NH2	2:D:2431:ARG:CB	2.53	0.70
1:C:1242:HIS:HB3	1:C:1476:TYR:CE1	2.22	0.70
1:C:1319:TRP:HA	1:C:1490:LEU:HD21	1.72	0.70
2:D:2180:HIS:HA	2:D:2225:PHE:HE2	1.55	0.70
2:D:2633:LYS:HA	2:D:2633:LYS:HZ2	1.56	0.70
1:A:1464:ILE:HD13	1:A:1526:LEU:HB3	1.73	0.70
2:B:2195:TRP:CA	2:D:1922:TYR:CD1	2.74	0.70
2:B:3195:ARG:HH12	2:B:3295:ARG:HE	1.39	0.70
2:B:3297:ASN:H	2:B:3297:ASN:HD22	1.39	0.70
1:C:230:ASP:OD1	1:C:231:PRO:HD2	1.91	0.70
1:C:495:VAL:O	1:C:498:VAL:HG12	1.91	0.70
1:C:973:ARG:HA	1:C:1026:GLN:HE22	1.55	0.70
1:C:1093:ASP:OD2	1:C:1096:THR:HG23	1.91	0.70
1:C:1148:LEU:HD12	1:C:1187:TYR:CE2	2.26	0.70
1:C:1153:LYS:CG	1:C:1176:LEU:HD21	2.12	0.70
2:D:1931:PHE:CE1	2:D:1942:LYS:HB3	2.26	0.70
2:D:2279:HIS:HE2	2:D:2280:TYR:HE2	1.37	0.70
2:D:2664:VAL:O	2:D:2668:ILE:HD13	1.90	0.70
2:D:3240:LYS:H	2:D:3240:LYS:HD2	1.54	0.70
1:A:462:HIS:CE1	1:A:629:PHE:CZ	2.79	0.70
1:A:746:PHE:CZ	1:A:799:THR:HB	2.25	0.70
1:A:815:ILE:HG22	1:A:816:PRO:O	1.90	0.70
1:A:1662:THR:HG22	2:B:1899:GLY:H	1.57	0.70
2:B:1979:LEU:HB2	2:B:2018:PHE:HD2	1.56	0.70
2:B:2224:LEU:HD23	2:B:2225:PHE:N	2.06	0.70
2:B:2810:SER:HB3	2:B:2822:PHE:HE1	1.53	0.70
1:C:411:ASP:HB2	1:C:655:ARG:H	1.55	0.70
1:C:1026:GLN:HG3	1:C:1028:TYR:O	1.91	0.70
1:C:1403:GLN:HE22	1:C:1605:LEU:CD2	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1515:TYR:HE2	1:C:1521:TYR:O	1.69	0.70
1:A:516:TRP:CG	1:A:605:ILE:HD12	2.27	0.70
1:A:810:LEU:HD13	1:A:811:ALA:O	1.91	0.70
1:A:891:PHE:HB2	1:A:1183:MET:HE2	1.74	0.70
1:A:975:VAL:HG23	1:A:1021:LEU:O	1.92	0.70
1:A:1026:GLN:HG3	1:A:1028:TYR:O	1.92	0.70
1:A:1274:ARG:HA	1:A:1374:PHE:CE1	2.24	0.70
1:A:1274:ARG:HH11	1:A:1365:ARG:NH2	1.90	0.70
1:C:748:LYS:HA	1:C:754:GLN:HG2	1.72	0.70
1:C:810:LEU:HD13	1:C:811:ALA:O	1.91	0.70
1:C:1324:VAL:O	1:C:1327:VAL:HG22	1.91	0.70
1:C:1549:VAL:HG22	1:C:1607:ILE:HD11	1.71	0.70
2:D:2032:LYS:O	2:D:2032:LYS:HD3	1.92	0.70
2:D:2208:TYR:O	2:D:2210:PRO:HD3	1.91	0.70
2:D:2385:PHE:CE1	2:D:2485:GLU:HG3	2.26	0.70
2:D:3200:VAL:HG11	2:D:3258:VAL:HG21	1.73	0.70
2:D:3291:ILE:HG22	2:D:3305:GLU:OE2	1.91	0.70
1:A:241:LEU:CD1	1:A:265:ALA:HB2	2.21	0.70
1:A:560:ARG:NE	1:A:609:THR:HB	2.07	0.70
1:A:676:LEU:HD22	1:A:676:LEU:N	2.05	0.70
1:A:1242:HIS:CG	1:A:1476:TYR:OH	2.44	0.70
1:A:1403:GLN:HE22	1:A:1605:LEU:CD2	2.04	0.70
2:B:2195:TRP:HA	2:D:1921:PRO:C	2.17	0.70
2:B:2208:TYR:O	2:B:2210:PRO:HD3	1.91	0.70
1:C:156:MET:HE3	1:C:285:MET:CE	2.20	0.70
1:C:226:LEU:HD23	1:C:291:LYS:CE	2.20	0.70
1:C:811:ALA:O	1:C:814:LEU:HD13	1.92	0.70
1:C:841:ASN:HD21	1:C:844:ARG:HB2	1.56	0.70
1:C:964:ILE:HD11	1:C:1035:TYR:HD1	1.57	0.70
1:C:975:VAL:HG23	1:C:1021:LEU:O	1.92	0.70
1:C:1372:ASN:OD1	1:C:1374:PHE:HB2	1.91	0.70
2:D:2667:GLU:O	2:D:2670:HIS:HB3	1.92	0.70
2:D:3297:ASN:H	2:D:3297:ASN:HD22	1.40	0.70
2:D:3308:ILE:HA	2:D:3329:MET:CB	2.19	0.70
2:D:3338:PRO:HB3	2:D:3358:PHE:HE1	1.54	0.70
1:A:582:ILE:CG2	1:A:639:LEU:HD23	2.22	0.70
1:A:930:TRP:CE3	1:A:1018:ILE:HD11	2.27	0.70
1:A:1036:THR:HG22	1:A:1042:PHE:CD2	2.19	0.70
1:A:1101:VAL:HG23	1:A:1104:ASN:H	1.57	0.70
2:B:1852:THR:HG23	2:B:1853:TRP:HD1	1.56	0.70
1:C:179:HIS:CE1	1:C:209:HIS:NE2	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:498:VAL:HG11	1:C:511:ILE:CD1	2.21	0.70
1:C:951:ASP:OD1	1:C:953:VAL:HG12	1.92	0.70
1:C:1151:PHE:C	1:C:1153:LYS:HD2	2.16	0.70
2:D:1670:ASP:H	2:D:1673:GLN:NE2	1.89	0.70
2:D:1854:VAL:HG21	2:D:1862:ILE:HG13	1.72	0.70
2:D:2173:TRP:CZ3	2:D:2286:ILE:HD11	2.25	0.70
2:D:2367:ASN:O	2:D:2371:ILE:HG23	1.91	0.70
2:D:2594:ASP:HA	2:D:2703:ASN:ND2	2.07	0.70
1:A:160:LEU:HD21	1:A:297:ARG:HD2	1.73	0.70
1:A:860:LEU:HA	1:A:919:HIS:NE2	2.07	0.70
1:A:1088:ALA:H	1:A:1097:LYS:HZ3	1.35	0.70
1:A:1293:HIS:HA	1:A:1309:CYS:SG	2.31	0.70
1:A:1324:VAL:O	1:A:1327:VAL:HG22	1.91	0.70
2:B:1759:TRP:HD1	2:B:1811:LEU:HD11	1.57	0.70
1:C:239:GLU:OE2	1:C:819:SER:CB	2.40	0.70
1:C:241:LEU:CD1	1:C:265:ALA:HB2	2.21	0.70
1:C:466:ALA:HB1	1:C:477:TYR:O	1.91	0.70
1:C:546:SER:HA	1:C:558:THR:CG2	2.22	0.70
1:C:860:LEU:HA	1:C:919:HIS:NE2	2.07	0.70
1:C:900:VAL:CG1	1:C:1081:LEU:HD11	2.21	0.70
1:C:1101:VAL:HG23	1:C:1104:ASN:H	1.57	0.70
1:C:1179:ASP:O	1:C:1182:GLU:HG2	1.92	0.70
2:D:1880:GLN:HE22	2:D:1884:ILE:CG2	2.05	0.70
2:D:1979:LEU:HB2	2:D:2018:PHE:CD2	2.25	0.70
2:D:2124:LEU:HD13	2:D:2125:PRO:N	2.07	0.70
2:D:3335:VAL:HG12	2:D:3383:LEU:HD21	1.74	0.70
1:A:239:GLU:OE2	1:A:819:SER:CB	2.40	0.70
1:A:498:VAL:HG11	1:A:511:ILE:CD1	2.21	0.70
1:A:748:LYS:HA	1:A:754:GLN:HG2	1.72	0.70
2:B:1880:GLN:HE22	2:B:1884:ILE:CG2	2.05	0.70
2:B:2126:ALA:HB1	2:B:2136:VAL:O	1.92	0.70
2:B:2367:ASN:O	2:B:2371:ILE:HG23	1.91	0.70
1:C:582:ILE:CG2	1:C:639:LEU:HD23	2.22	0.70
1:C:698:LEU:HD12	1:C:700:TYR:CB	2.22	0.70
2:D:2126:ALA:HB1	2:D:2136:VAL:O	1.92	0.70
2:D:2970:PHE:CD2	2:D:2971:PRO:HD3	2.27	0.70
2:D:3254:ILE:H	2:D:3254:ILE:HD13	1.55	0.70
1:A:70:ARG:HH22	1:A:270:TYR:HB3	1.57	0.70
1:A:173:ILE:HG13	1:A:174:GLN:N	2.07	0.70
1:A:411:ASP:HB3	1:A:655:ARG:H	1.55	0.70
1:A:498:VAL:O	1:A:501:ALA:HB3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:ILE:HD12	1:A:1014:ALA:N	2.06	0.70
1:A:1161:ILE:HG12	1:A:1195:ILE:HD11	1.74	0.70
2:B:2106:LEU:HD23	2:B:2164:HIS:CE1	2.27	0.70
2:B:2159:GLN:O	2:B:2163:ARG:HG3	1.92	0.70
2:B:2497:SER:HB3	2:B:3322:ARG:CZ	2.21	0.70
2:B:3335:VAL:HG12	2:B:3383:LEU:HD21	1.74	0.70
1:C:21:ALA:O	1:C:25:GLU:HG3	1.92	0.70
1:C:930:TRP:CE3	1:C:1018:ILE:HD11	2.27	0.70
1:C:1078:ARG:HB3	2:D:2457:PRO:CD	2.21	0.70
2:D:3071:TYR:CZ	2:D:3109:LEU:HD22	2.25	0.70
2:D:3274:LEU:HD11	2:D:3281:GLU:OE2	1.91	0.70
1:A:21:ALA:O	1:A:25:GLU:HG3	1.92	0.69
1:A:432:THR:HG22	1:A:435:GLU:HG3	1.74	0.69
1:A:440:ARG:HA	1:A:544:PHE:HE2	1.57	0.69
1:A:458:THR:HA	1:A:461:TYR:CE1	2.26	0.69
1:A:646:LEU:HD21	1:A:716:GLU:OE1	1.92	0.69
1:A:811:ALA:O	1:A:814:LEU:HD13	1.92	0.69
1:A:1101:VAL:CG2	1:A:1104:ASN:HB2	2.22	0.69
1:C:1101:VAL:CG2	1:C:1104:ASN:HB2	2.22	0.69
2:D:3136:ILE:H	2:D:3136:ILE:HD12	1.56	0.69
1:A:1319:TRP:HA	1:A:1490:LEU:HD21	1.72	0.69
2:B:1694:SER:HA	2:D:2101:TYR:HE2	1.57	0.69
2:B:1757:TRP:HE1	2:B:1763:ARG:HD2	1.56	0.69
2:B:1847:HIS:ND1	2:B:1881:THR:HG21	1.99	0.69
2:B:1907:ASN:CG	2:B:1908:LEU:HD12	2.17	0.69
2:B:2032:LYS:O	2:B:2032:LYS:HD3	1.92	0.69
2:B:2124:LEU:HD13	2:B:2125:PRO:N	2.07	0.69
2:B:2594:ASP:HA	2:B:2703:ASN:ND2	2.07	0.69
2:D:2103:LEU:HD12	2:D:2204:PHE:CD1	2.26	0.69
2:D:3263:LEU:HD22	2:D:3269:LYS:HD2	1.73	0.69
1:A:226:LEU:HD23	1:A:291:LYS:CE	2.20	0.69
1:A:431:LEU:HA	1:A:435:GLU:OE1	1.92	0.69
1:A:439:LEU:HB3	1:A:544:PHE:HZ	1.57	0.69
1:A:951:ASP:OD1	1:A:953:VAL:HG12	1.92	0.69
1:A:1202:LEU:HB3	1:A:1204:LEU:HG	1.75	0.69
1:A:1476:TYR:CG	1:A:1477:ARG:N	2.61	0.69
1:A:1622:PHE:HZ	1:A:1646:ILE:CD1	2.02	0.69
2:B:1851:HIS:HA	2:B:1862:ILE:CG2	2.21	0.69
2:B:2400:GLN:HG3	2:B:2412:HIS:HE1	1.57	0.69
2:B:3200:VAL:HG11	2:B:3258:VAL:HG21	1.73	0.69
2:B:3263:LEU:HD22	2:B:3269:LYS:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:59:ILE:HG22	1:C:62:MET:HB2	1.72	0.69
1:C:439:LEU:HB3	1:C:544:PHE:HZ	1.57	0.69
2:D:2322:MET:CE	2:D:2349:PHE:HE1	2.05	0.69
1:A:900:VAL:CG1	1:A:1081:LEU:HD11	2.21	0.69
1:A:964:ILE:HG12	1:A:1038:PHE:CD1	2.27	0.69
2:B:1707:LEU:HD23	2:B:1709:PRO:CG	2.19	0.69
2:B:1757:TRP:HZ3	2:B:1873:LEU:CD1	2.02	0.69
2:B:2571:ARG:HH21	2:B:2761:TYR:HB3	1.56	0.69
2:B:3314:LEU:HD21	2:B:3391:ILE:CG1	2.22	0.69
2:B:3340:LEU:HG	2:B:3341:ASN:ND2	2.08	0.69
1:C:431:LEU:HA	1:C:435:GLU:OE1	1.92	0.69
1:C:436:VAL:HG23	1:C:526:LEU:HD11	1.75	0.69
1:C:440:ARG:HA	1:C:544:PHE:HE2	1.57	0.69
1:C:1079:GLU:CA	2:D:2456:GLU:HG3	2.22	0.69
1:C:1293:HIS:HA	1:C:1309:CYS:SG	2.31	0.69
1:C:1515:TYR:HA	1:C:1519:PHE:CD2	2.26	0.69
2:D:1845:ILE:HD12	2:D:2022:TYR:CE1	2.26	0.69
2:D:2224:LEU:HD23	2:D:2225:PHE:N	2.06	0.69
2:D:2823:ALA:HA	2:D:2850:VAL:HG21	1.75	0.69
2:D:2862:PHE:HE1	2:D:2864:PHE:CE1	2.10	0.69
1:A:841:ASN:HD21	1:A:844:ARG:HB2	1.56	0.69
1:A:964:ILE:HD11	1:A:1035:TYR:HD1	1.57	0.69
1:A:1142:PHE:O	1:A:1195:ILE:HG22	1.92	0.69
1:A:1148:LEU:HD12	1:A:1187:TYR:CE2	2.26	0.69
1:A:1325:VAL:HG11	1:A:1515:TYR:CE1	2.24	0.69
1:A:1662:THR:O	2:B:1893:ARG:CG	2.40	0.69
2:B:1845:ILE:HD12	2:B:2022:TYR:CE1	2.26	0.69
2:B:2146:PHE:HB3	2:B:2147:PRO:HD3	1.73	0.69
2:B:2175:TRP:CH2	2:B:2266:LEU:HD22	2.27	0.69
2:B:2870:ASP:OD2	2:B:2874:LYS:HB3	1.92	0.69
2:B:2970:PHE:CD2	2:B:2971:PRO:HD3	2.27	0.69
2:B:3254:ILE:HD13	2:B:3254:ILE:H	1.55	0.69
1:C:552:GLU:HG3	1:C:554:ASN:N	2.07	0.69
1:C:1142:PHE:O	1:C:1195:ILE:HG22	1.92	0.69
1:C:1316:PHE:HB3	1:C:1317:PRO:HD3	1.72	0.69
1:A:1363:ASN:HA	1:A:1365:ARG:NH1	2.07	0.69
2:B:2497:SER:OG	2:B:3322:ARG:CZ	2.40	0.69
2:B:2695:PRO:HA	2:B:2698:TRP:CZ3	2.28	0.69
1:C:498:VAL:HB	1:C:630:TYR:CE1	2.28	0.69
1:C:676:LEU:HD22	1:C:676:LEU:N	2.05	0.69
2:D:2175:TRP:CH2	2:D:2266:LEU:HD22	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2634:LEU:HD12	2:D:2676:TRP:CE3	2.26	0.69
1:A:127:ASN:OD1	1:A:134:LYS:HD2	1.92	0.69
1:A:1034:ARG:HD2	1:A:1035:TYR:CZ	2.27	0.69
1:A:1036:THR:CG2	1:A:1042:PHE:HD2	2.04	0.69
1:A:1469:GLN:OE1	1:A:1474:ARG:HD3	1.92	0.69
2:B:1780:THR:HG23	2:B:1782:ARG:N	2.05	0.69
2:B:2127:LYS:CE	2:B:2333:ILE:HD11	2.23	0.69
1:C:5:ARG:HD3	1:C:89:LEU:CD2	2.17	0.69
1:C:891:PHE:HB2	1:C:1183:MET:HE2	1.74	0.69
1:C:1363:ASN:HA	1:C:1365:ARG:NH1	2.07	0.69
1:C:1515:TYR:CE2	1:C:1521:TYR:CA	2.73	0.69
1:C:1567:PHE:HD1	1:C:1583:ALA:N	1.91	0.69
2:D:1759:TRP:HD1	2:D:1811:LEU:HD11	1.57	0.69
2:D:3119:LEU:O	2:D:3119:LEU:HD23	1.93	0.69
1:A:8:VAL:CG1	1:A:104:LEU:HD12	2.15	0.69
1:A:183:HIS:ND1	1:A:194:MET:HE2	2.07	0.69
1:A:411:ASP:HB2	1:A:655:ARG:H	1.55	0.69
1:A:498:VAL:HB	1:A:630:TYR:CE1	2.28	0.69
1:A:546:SER:HA	1:A:558:THR:CG2	2.22	0.69
1:A:723:GLN:HG3	1:A:826:ARG:HH21	1.57	0.69
1:A:730:ALA:HB2	1:A:781:ILE:HD11	1.75	0.69
1:A:791:THR:HG23	1:A:794:GLY:N	2.05	0.69
1:A:895:VAL:HG11	1:A:900:VAL:HG12	1.74	0.69
1:A:1179:ASP:O	1:A:1182:GLU:HG2	1.92	0.69
1:A:1515:TYR:HA	1:A:1519:PHE:CD2	2.27	0.69
2:B:2498:SER:HB2	2:B:3397:ASP:HB3	1.74	0.69
2:B:2862:PHE:HE1	2:B:2864:PHE:CE1	2.10	0.69
2:B:3310:LYS:H	2:B:3389:LEU:HD21	1.57	0.69
2:B:3353:VAL:HG12	2:B:3377:THR:HG21	1.75	0.69
1:C:70:ARG:HH22	1:C:270:TYR:HB3	1.57	0.69
1:C:160:LEU:HD21	1:C:293:TYR:CE2	2.28	0.69
1:C:173:ILE:HG13	1:C:174:GLN:N	2.07	0.69
1:C:183:HIS:ND1	1:C:194:MET:HE2	2.07	0.69
1:C:791:THR:HG23	1:C:794:GLY:N	2.05	0.69
1:C:1107:ASP:CG	1:C:1110:THR:HG22	2.18	0.69
1:C:1491:GLN:CD	1:C:1494:ASP:HB2	2.18	0.69
2:D:1956:SER:O	2:D:1960:ILE:HG12	1.91	0.69
2:D:1979:LEU:HB2	2:D:2018:PHE:HD2	1.56	0.69
2:D:2237:LEU:O	2:D:2241:LEU:HG	1.92	0.69
2:D:2660:CYS:SG	2:D:2728:GLU:HG2	2.33	0.69
2:D:2684:GLY:O	2:D:2687:THR:HG22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:LEU:HD21	1:A:293:TYR:CE2	2.28	0.69
1:A:973:ARG:HD3	1:A:1039:ASP:OD2	1.93	0.69
1:A:1219:LEU:CD1	1:A:1220:LYS:HG3	2.23	0.69
1:A:1273:LEU:HB3	1:A:1374:PHE:CZ	2.27	0.69
1:A:1520:GLY:O	1:A:1521:TYR:CD1	2.46	0.69
2:B:1914:LYS:CD	2:B:1918:PHE:HE1	2.06	0.69
2:B:3314:LEU:HD21	2:B:3391:ILE:HG12	1.75	0.69
1:C:23:LEU:CD2	1:C:122:TYR:HD2	2.05	0.69
1:C:32:SER:O	1:C:37:LYS:HB3	1.93	0.69
1:C:516:TRP:CG	1:C:605:ILE:HD12	2.27	0.69
1:C:964:ILE:HG12	1:C:1038:PHE:CD1	2.27	0.69
1:C:1087:SER:OG	1:C:1097:LYS:CD	2.39	0.69
1:C:1567:PHE:HD1	1:C:1583:ALA:CA	2.06	0.69
2:D:2175:TRP:CG	2:D:2263:ILE:HD11	2.27	0.69
2:D:3314:LEU:HD21	2:D:3391:ILE:HG12	1.75	0.69
1:A:32:SER:O	1:A:37:LYS:HB3	1.93	0.69
1:A:497:GLN:OE1	1:A:682:THR:HG21	1.93	0.69
2:B:1705:HIS:HE1	2:B:1865:LEU:HD12	1.58	0.69
2:B:1714:PRO:HG2	2:B:1922:TYR:HE2	1.06	0.69
2:B:1924:LEU:HB3	2:D:2094:ARG:CG	2.23	0.69
2:B:2608:ASP:HB3	2:B:2612:ASN:HD22	1.58	0.69
2:B:3090:MET:SD	2:B:3101:TYR:HD2	2.16	0.69
2:B:3121:LYS:HD3	2:B:3126:PRO:HB3	1.74	0.69
1:C:723:GLN:HG3	1:C:826:ARG:HH21	1.57	0.69
1:C:1202:LEU:HB3	1:C:1204:LEU:HG	1.75	0.69
1:C:1249:GLN:HG3	1:C:1476:TYR:HD1	1.57	0.69
2:D:2695:PRO:HA	2:D:2698:TRP:CZ3	2.28	0.69
2:D:2912:ILE:CG2	2:D:2995:PRO:HB2	2.06	0.69
2:D:3340:LEU:HG	2:D:3341:ASN:ND2	2.08	0.69
1:A:156:MET:HE3	1:A:285:MET:HE2	1.75	0.68
1:A:169:CYS:HB3	1:A:356:ARG:CZ	2.24	0.68
1:A:694:TYR:CZ	1:A:695:GLU:HG3	2.28	0.68
1:A:1395:PHE:CZ	1:A:1430:LEU:HD23	2.28	0.68
1:A:1491:GLN:CD	1:A:1494:ASP:HB2	2.18	0.68
2:B:2237:LEU:O	2:B:2241:LEU:HG	1.92	0.68
2:B:2667:GLU:O	2:B:2670:HIS:HB3	1.92	0.68
1:C:498:VAL:HG11	1:C:630:TYR:CD1	2.28	0.68
1:C:502:LEU:HA	1:C:505:ARG:CD	2.23	0.68
1:C:1034:ARG:HD2	1:C:1035:TYR:CZ	2.27	0.68
1:C:1219:LEU:CD1	1:C:1220:LYS:HG3	2.23	0.68
1:C:1476:TYR:CG	1:C:1477:ARG:N	2.60	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2930:LEU:HG	2:D:2939:TYR:HB2	1.75	0.68
2:D:3075:HIS:HB2	2:D:3109:LEU:HD12	1.73	0.68
2:D:3358:PHE:CE2	2:D:3360:ALA:HA	2.28	0.68
1:A:464:LEU:HD13	1:A:465:PRO:CA	2.24	0.68
1:A:513:TYR:CD1	1:A:638:ARG:HD2	2.28	0.68
2:B:1815:SER:CB	2:B:1820:HIS:NE2	2.57	0.68
2:B:2300:VAL:HG13	2:B:2368:LEU:HD22	1.75	0.68
2:B:2792:ASP:HB3	2:B:2888:HIS:CE1	2.29	0.68
1:C:169:CYS:HB3	1:C:356:ARG:CZ	2.24	0.68
1:C:694:TYR:CZ	1:C:695:GLU:HG3	2.29	0.68
1:C:1134:GLU:O	1:C:1137:LYS:HG2	1.94	0.68
1:C:1233:SER:HA	2:D:2320:SER:OG	1.93	0.68
1:C:1257:ARG:CG	1:C:1521:TYR:CD1	2.75	0.68
1:C:1274:ARG:HH11	1:C:1365:ARG:NH2	1.90	0.68
2:D:2964:VAL:HG11	2:D:2969:ILE:HG13	1.75	0.68
1:A:498:VAL:HG11	1:A:630:TYR:CD1	2.28	0.68
1:A:1143:PHE:CD2	1:A:1194:ASP:HA	2.28	0.68
1:A:1567:PHE:HD1	1:A:1583:ALA:CA	2.06	0.68
2:B:2036:ARG:HH21	2:B:2038:ASP:CB	2.05	0.68
2:B:2100:LYS:CA	2:B:2204:PHE:HE1	2.03	0.68
2:B:2322:MET:CE	2:B:2349:PHE:HE1	2.05	0.68
2:B:2366:MET:HB2	2:B:2371:ILE:HG22	1.75	0.68
2:B:3177:LEU:H	2:B:3177:LEU:HD13	1.59	0.68
2:B:3327:MET:HG2	2:B:3328:PHE:H	1.59	0.68
1:C:289:GLU:O	1:C:292:THR:HG22	1.93	0.68
1:C:666:HIS:CD2	1:C:686:ALA:HB3	2.29	0.68
1:C:1464:ILE:HD13	1:C:1526:LEU:HB3	1.73	0.68
2:D:1815:SER:CB	2:D:1820:HIS:NE2	2.57	0.68
2:D:2106:LEU:HD23	2:D:2164:HIS:CE1	2.27	0.68
1:A:70:ARG:HH11	1:A:217:PHE:HD2	1.39	0.68
1:A:676:LEU:HD11	1:A:1365:ARG:HD2	1.75	0.68
1:A:1611:LEU:HD22	1:A:1616:VAL:HG21	1.74	0.68
2:B:2175:TRP:CG	2:B:2263:ILE:HD11	2.28	0.68
2:B:2209:VAL:HG11	2:B:2212:HIS:HB2	1.74	0.68
2:B:2628:ARG:HH12	2:B:2696:LEU:HD22	1.58	0.68
1:C:497:GLN:OE1	1:C:682:THR:HG21	1.93	0.68
1:C:516:TRP:HE1	1:C:566:LEU:HD12	1.59	0.68
2:D:1914:LYS:CD	2:D:1918:PHE:HE1	2.06	0.68
2:D:2127:LYS:CE	2:D:2333:ILE:HD11	2.23	0.68
2:D:2209:VAL:HG23	2:D:2283:TYR:CZ	2.29	0.68
2:D:2366:MET:HB2	2:D:2371:ILE:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3090:MET:SD	2:D:3101:TYR:HD2	2.16	0.68
1:A:621:HIS:NE2	1:A:767:LYS:HB2	2.09	0.68
1:A:1567:PHE:HD1	1:A:1583:ALA:N	1.91	0.68
2:B:1817:LYS:HD3	2:D:1778:PRO:HB2	1.76	0.68
2:B:2660:CYS:SG	2:B:2728:GLU:HG2	2.33	0.68
2:B:2962:CYS:CB	2:B:3143:PRO:HD3	2.23	0.68
2:B:3279:HIS:CD2	2:B:3280:THR:HG23	2.29	0.68
1:C:285:MET:HB2	1:C:290:LEU:HD21	1.75	0.68
1:C:498:VAL:O	1:C:501:ALA:HB3	1.92	0.68
1:C:621:HIS:NE2	1:C:767:LYS:HB2	2.09	0.68
1:C:641:ALA:O	1:C:644:GLN:HG2	1.94	0.68
1:C:646:LEU:HD21	1:C:716:GLU:OE1	1.92	0.68
1:C:1143:PHE:CD2	1:C:1194:ASP:HA	2.28	0.68
1:C:1161:ILE:HG12	1:C:1195:ILE:HD11	1.74	0.68
2:D:1757:TRP:HZ3	2:D:1873:LEU:CD2	2.06	0.68
1:A:289:GLU:O	1:A:292:THR:HG22	1.94	0.68
1:A:436:VAL:HG23	1:A:526:LEU:HD11	1.75	0.68
2:B:2180:HIS:HA	2:B:2225:PHE:HE2	1.55	0.68
2:B:2327:ARG:HG2	2:B:2331:TYR:HE1	1.58	0.68
2:B:2494:HIS:CE1	2:B:3125:LYS:HZ3	2.07	0.68
2:B:3119:LEU:O	2:B:3119:LEU:HD23	1.93	0.68
1:C:676:LEU:HD11	1:C:1365:ARG:HD2	1.75	0.68
1:C:1236:HIS:CD2	1:C:1238:PRO:HD3	2.29	0.68
2:D:1852:THR:HG23	2:D:1853:TRP:CD1	2.28	0.68
2:D:1907:ASN:CG	2:D:1908:LEU:HD12	2.18	0.68
2:D:1982:PHE:CD1	2:D:2007:VAL:HG11	2.29	0.68
2:D:2100:LYS:CA	2:D:2204:PHE:HE1	2.03	0.68
2:D:2103:LEU:HD12	2:D:2204:PHE:CE1	2.29	0.68
2:D:2159:GLN:O	2:D:2163:ARG:HG3	1.93	0.68
2:D:3310:LYS:H	2:D:3389:LEU:HD21	1.57	0.68
1:A:560:ARG:HD3	1:A:610:GLY:N	2.07	0.68
1:A:598:PHE:CZ	1:A:636:VAL:HG13	2.29	0.68
1:A:641:ALA:O	1:A:644:GLN:HG2	1.94	0.68
1:A:1107:ASP:CG	1:A:1110:THR:HG22	2.18	0.68
2:B:2195:TRP:CG	2:D:1922:TYR:CD1	2.81	0.68
2:B:2503:GLY:HA2	2:B:2588:VAL:HB	1.76	0.68
2:B:2660:CYS:HB3	2:B:2841:ARG:HH12	1.59	0.68
2:B:2767:GLN:OE1	2:B:3121:LYS:NZ	2.24	0.68
2:B:3243:PRO:HD2	2:D:3354:PRO:HB3	1.76	0.68
2:B:3316:PRO:HD2	2:D:3350:LYS:HZ2	0.59	0.68
1:C:598:PHE:CZ	1:C:636:VAL:HG13	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:895:VAL:HG11	1:C:900:VAL:HG12	1.75	0.68
1:C:1265:LEU:HB2	1:C:1270:LEU:HD21	1.76	0.68
1:C:1306:ILE:CG2	1:C:1595:MET:HB3	2.22	0.68
1:C:1404:VAL:CG2	1:C:1423:LEU:HD22	2.23	0.68
1:C:1657:THR:HB	2:D:1898:SER:HG	1.59	0.68
2:D:1758:ASP:HA	2:D:1880:GLN:HG3	1.76	0.68
2:D:2255:GLN:HA	2:D:2433:PHE:CE1	2.23	0.68
2:D:2628:ARG:HH12	2:D:2696:LEU:HD22	1.58	0.68
2:D:3314:LEU:HD21	2:D:3391:ILE:CG1	2.22	0.68
1:A:318:VAL:O	1:A:340:ASP:HB2	1.93	0.68
1:A:452:VAL:O	1:A:457:ALA:HB3	1.93	0.68
2:B:1707:LEU:CD2	2:B:1709:PRO:CG	2.71	0.68
2:B:1758:ASP:HA	2:B:1880:GLN:HG3	1.76	0.68
2:B:1823:PHE:HD1	2:B:1846:MET:SD	2.17	0.68
2:B:1982:PHE:CD1	2:B:2007:VAL:HG11	2.29	0.68
2:B:2173:TRP:HZ2	2:B:2179:ILE:HD12	1.59	0.68
2:B:2493:ASP:O	2:B:2495:HIS:HD2	1.74	0.68
2:B:2684:GLY:O	2:B:2687:THR:HG22	1.93	0.68
1:C:164:GLU:HB3	1:C:294:LEU:HD13	1.75	0.68
1:C:318:VAL:O	1:C:340:ASP:HB2	1.93	0.68
1:C:1469:GLN:OE1	1:C:1474:ARG:HD3	1.92	0.68
1:C:1547:ASP:HB3	1:C:1648:PHE:CZ	2.29	0.68
2:D:1705:HIS:HE1	2:D:1865:LEU:HD12	1.58	0.68
2:D:1808:ARG:HE	2:D:1810:ARG:HB2	1.59	0.68
2:D:2400:GLN:HG3	2:D:2412:HIS:HE1	1.57	0.68
2:D:3279:HIS:CD2	2:D:3280:THR:HG23	2.29	0.68
1:A:37:LYS:O	1:A:37:LYS:HD3	1.94	0.68
1:A:931:THR:HG21	1:A:1121:PHE:CE1	2.29	0.68
1:A:1319:TRP:HD1	1:A:1490:LEU:CD1	2.06	0.68
2:B:1852:THR:HG23	2:B:1853:TRP:CD1	2.28	0.68
2:B:2103:LEU:HD12	2:B:2204:PHE:CE1	2.29	0.68
2:B:2823:ALA:HA	2:B:2850:VAL:HG21	1.75	0.68
2:B:2930:LEU:HG	2:B:2939:TYR:HB2	1.75	0.68
1:C:1188:ASP:OD1	2:D:2389:LEU:CD1	2.42	0.68
1:C:1273:LEU:HB3	1:C:1374:PHE:CZ	2.26	0.68
1:C:1395:PHE:CZ	1:C:1430:LEU:HD23	2.28	0.68
1:C:1611:LEU:HD22	1:C:1616:VAL:HG21	1.74	0.68
2:D:2441:LEU:O	2:D:2444:ALA:HB3	1.94	0.68
2:D:2870:ASP:OD2	2:D:2874:LYS:HB3	1.93	0.68
2:D:3121:LYS:HD3	2:D:3126:PRO:HB3	1.74	0.68
1:A:579:PHE:CE1	1:A:718:MET:HE1	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:788:LEU:HB3	1:A:790:LEU:HG	1.76	0.68
1:A:1265:LEU:HB2	1:A:1270:LEU:HD21	1.76	0.68
2:B:1815:SER:CB	2:B:1820:HIS:CE1	2.77	0.68
2:B:2222:GLU:O	2:B:2224:LEU:HD23	1.93	0.68
1:C:432:THR:CG2	1:C:435:GLU:H	2.07	0.68
1:C:432:THR:HG22	1:C:435:GLU:HG3	1.74	0.68
1:C:452:VAL:O	1:C:457:ALA:HB3	1.93	0.68
1:C:1647:LEU:HD12	1:C:1648:PHE:N	2.09	0.68
2:D:1823:PHE:HD1	2:D:1846:MET:SD	2.17	0.68
2:D:2121:PHE:O	2:D:2138:CYS:HB2	1.94	0.68
2:D:2173:TRP:HZ2	2:D:2179:ILE:CD1	2.07	0.68
2:D:2173:TRP:HZ2	2:D:2179:ILE:HD12	1.59	0.68
2:D:2341:LYS:O	2:D:2341:LYS:HD3	1.94	0.68
2:D:2945:PHE:CD2	2:D:3143:PRO:HG2	2.29	0.68
2:D:3195:ARG:HH12	2:D:3295:ARG:HE	1.39	0.68
1:A:1134:GLU:O	1:A:1137:LYS:HG2	1.94	0.67
2:B:2195:TRP:HA	2:D:1921:PRO:CA	2.23	0.67
2:B:2503:GLY:HA3	2:B:2588:VAL:CG1	2.23	0.67
1:C:70:ARG:HH11	1:C:217:PHE:HD2	1.39	0.67
1:C:973:ARG:HD3	1:C:1039:ASP:OD2	1.93	0.67
2:D:2660:CYS:HB3	2:D:2841:ARG:HH12	1.59	0.67
2:D:2962:CYS:CB	2:D:3143:PRO:HD3	2.23	0.67
1:A:146:LYS:HZ1	1:A:148:LYS:HE3	1.57	0.67
1:A:502:LEU:HA	1:A:505:ARG:CD	2.23	0.67
1:A:516:TRP:HE1	1:A:566:LEU:HD12	1.59	0.67
1:A:560:ARG:CZ	1:A:617:MET:HG3	2.24	0.67
2:B:2209:VAL:HG23	2:B:2283:TYR:CZ	2.29	0.67
1:C:155:LEU:O	1:C:159:VAL:HG13	1.94	0.67
1:C:156:MET:HE3	1:C:285:MET:HE2	1.75	0.67
1:C:931:THR:HG21	1:C:1121:PHE:CE1	2.29	0.67
1:C:1549:VAL:HG21	1:C:1646:ILE:HD11	1.76	0.67
2:D:1674:LEU:HD11	2:D:1755:PRO:HG3	1.75	0.67
2:D:1780:THR:HG23	2:D:1782:ARG:N	2.05	0.67
2:D:1809:ASP:HB3	2:D:1812:PHE:CE2	2.30	0.67
2:D:2222:GLU:O	2:D:2224:LEU:HD23	1.93	0.67
2:D:2608:ASP:HB3	2:D:2612:ASN:HD22	1.58	0.67
2:D:2999:TRP:CE3	2:D:3051:ILE:HG21	2.29	0.67
2:B:1798:GLU:HG3	2:B:1800:VAL:CG1	2.25	0.67
2:B:1851:HIS:HA	2:B:1862:ILE:HG22	1.75	0.67
2:B:2441:LEU:O	2:B:2444:ALA:HB3	1.94	0.67
2:B:2923:LEU:HD13	2:B:2995:PRO:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:513:TYR:CD1	1:C:638:ARG:HD2	2.28	0.67
1:C:579:PHE:CE1	1:C:718:MET:HE1	2.29	0.67
1:C:1331:LEU:O	1:C:1334:LYS:HB2	1.95	0.67
2:D:2209:VAL:HG11	2:D:2212:HIS:HB2	1.75	0.67
2:D:2327:ARG:HG2	2:D:2331:TYR:HE1	1.58	0.67
2:D:3353:VAL:HG12	2:D:3377:THR:HG21	1.75	0.67
1:A:442:ALA:HB1	1:A:505:ARG:HB2	1.77	0.67
2:B:1674:LEU:HD11	2:B:1755:PRO:HG3	1.75	0.67
2:B:2502:HIS:HD2	2:B:2765:ASN:CA	2.08	0.67
2:B:2822:PHE:CE2	2:B:2825:THR:HG23	2.29	0.67
2:B:3378:ALA:HB2	2:B:3384:CYS:HA	1.76	0.67
1:C:565:ARG:HG3	1:C:565:ARG:O	1.93	0.67
1:C:1405:LEU:HD11	1:C:1540:LEU:CD2	2.25	0.67
1:A:164:GLU:HB3	1:A:294:LEU:HD13	1.75	0.67
1:A:285:MET:HB2	1:A:290:LEU:HD21	1.75	0.67
1:A:432:THR:CG2	1:A:435:GLU:H	2.07	0.67
1:A:493:LEU:O	1:A:493:LEU:HD23	1.95	0.67
1:A:1392:ASP:HB2	1:A:1395:PHE:CE1	2.30	0.67
1:A:1404:VAL:CG2	1:A:1423:LEU:HD22	2.23	0.67
2:B:2172:TYR:HB2	2:B:2293:PHE:CA	2.25	0.67
2:B:3294:ARG:O	2:B:3304:ILE:HG22	1.95	0.67
1:C:37:LYS:O	1:C:37:LYS:HD3	1.94	0.67
1:C:466:ALA:CB	1:C:767:LYS:HD3	2.03	0.67
2:D:1707:LEU:CD2	2:D:1709:PRO:CG	2.71	0.67
2:D:1798:GLU:HG3	2:D:1800:VAL:CG1	2.25	0.67
1:A:565:ARG:HG3	1:A:565:ARG:O	1.93	0.67
1:A:1236:HIS:CD2	1:A:1238:PRO:HD3	2.29	0.67
1:A:1405:LEU:HD11	1:A:1540:LEU:CD2	2.24	0.67
2:B:2124:LEU:HD12	2:B:2212:HIS:HE1	1.59	0.67
2:B:2194:VAL:O	2:D:1921:PRO:HB2	1.72	0.67
2:B:3358:PHE:CE2	2:B:3360:ALA:HA	2.28	0.67
1:C:241:LEU:HD11	1:C:265:ALA:HA	1.77	0.67
1:C:895:VAL:HG21	1:C:900:VAL:CB	2.23	0.67
1:C:1236:HIS:HD2	1:C:1238:PRO:HD3	1.60	0.67
1:C:1618:LEU:CD2	2:D:1906:VAL:HG11	2.24	0.67
2:D:1670:ASP:H	2:D:1673:GLN:HE21	1.41	0.67
2:D:2761:TYR:HA	2:D:2764:PHE:HD1	1.60	0.67
2:D:2822:PHE:CE2	2:D:2825:THR:HG23	2.29	0.67
1:A:5:ARG:HD3	1:A:89:LEU:CD2	2.17	0.67
1:A:101:LEU:HD23	1:A:137:ARG:HH22	1.60	0.67
1:A:160:LEU:CD1	1:A:294:LEU:HD21	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1662:THR:C	2:B:1893:ARG:HB2	2.20	0.67
2:B:1670:ASP:H	2:B:1673:GLN:HE21	1.42	0.67
2:B:2121:PHE:O	2:B:2138:CYS:HB2	1.94	0.67
2:B:2945:PHE:CD2	2:B:3143:PRO:HG2	2.29	0.67
1:C:101:LEU:HD23	1:C:137:ARG:HH22	1.60	0.67
1:C:730:ALA:HB2	1:C:781:ILE:HD11	1.75	0.67
1:C:788:LEU:HB3	1:C:790:LEU:HG	1.76	0.67
1:C:964:ILE:HG12	1:C:1038:PHE:CG	2.30	0.67
1:C:1257:ARG:HG3	1:C:1521:TYR:CD1	2.26	0.67
1:C:1274:ARG:NH1	1:C:1365:ARG:NH2	2.42	0.67
1:A:155:LEU:O	1:A:159:VAL:HG13	1.94	0.67
1:A:1226:LYS:HA	1:A:1226:LYS:CE	2.21	0.67
2:B:1768:GLU:CA	2:B:1771:THR:HG22	2.25	0.67
2:B:2401:PHE:CE1	2:B:2460:ILE:HG21	2.30	0.67
2:B:3328:PHE:HE1	2:B:3364:GLY:CA	2.07	0.67
1:C:26:LEU:HB2	1:C:83:LYS:CD	2.24	0.67
1:C:373:LEU:H	1:C:373:LEU:HD22	1.60	0.67
1:C:1575:HIS:HB3	2:D:2783:HIS:CG	2.30	0.67
2:D:3328:PHE:HE1	2:D:3364:GLY:CA	2.07	0.67
1:A:302:ARG:CZ	1:A:304:PHE:HZ	2.08	0.67
1:A:1547:ASP:HB3	1:A:1648:PHE:CZ	2.29	0.67
2:B:1809:ASP:HB3	2:B:1812:PHE:CE2	2.30	0.67
2:B:2173:TRP:HZ2	2:B:2179:ILE:CD1	2.07	0.67
2:B:2177:LYS:HZ1	2:B:2364:GLY:HA2	1.59	0.67
2:B:2195:TRP:HB3	2:D:1921:PRO:C	2.20	0.67
2:B:3081:LEU:H	2:B:3081:LEU:HD22	1.60	0.67
1:C:26:LEU:HA	1:C:83:LYS:HD2	1.76	0.67
1:C:183:HIS:ND1	1:C:194:MET:CG	2.52	0.67
1:C:302:ARG:CZ	1:C:304:PHE:HZ	2.08	0.67
1:C:442:ALA:HB1	1:C:505:ARG:HB2	1.77	0.67
2:D:2175:TRP:HB2	2:D:2263:ILE:CD1	2.23	0.67
2:D:2432:LEU:CD2	2:D:2481:THR:HG21	2.25	0.67
2:D:3208:GLY:HA2	2:D:3244:TRP:CE2	2.30	0.67
1:A:464:LEU:HD23	1:A:767:LYS:CE	2.25	0.67
1:A:698:LEU:HD12	1:A:700:TYR:CB	2.22	0.67
1:A:895:VAL:HG21	1:A:900:VAL:CB	2.23	0.67
1:A:1075:THR:HB	2:B:2482:ILE:CG2	2.25	0.67
2:B:1757:TRP:HZ3	2:B:1873:LEU:CD2	2.07	0.67
2:B:2432:LEU:CD2	2:B:2481:THR:HG21	2.25	0.67
1:C:160:LEU:CD1	1:C:294:LEU:HD21	2.24	0.67
1:C:224:GLN:O	1:C:227:ARG:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:LYS:HZ2	1:C:263:THR:HB	1.59	0.67
1:C:560:ARG:CZ	1:C:617:MET:HG3	2.24	0.67
1:C:1084:PHE:O	1:C:1097:LYS:HG2	1.95	0.67
2:D:1757:TRP:HB2	2:D:1876:ILE:CG2	2.25	0.67
2:D:1815:SER:CB	2:D:1820:HIS:CE1	2.77	0.67
2:D:2382:VAL:HG11	2:D:2484:TYR:CE1	2.31	0.67
1:A:153:THR:H	1:A:156:MET:HB3	1.60	0.66
1:A:1156:LEU:HD21	1:A:1173:GLU:OE1	1.95	0.66
2:B:1689:MET:HG2	2:B:1698:PHE:HB2	1.77	0.66
2:B:1808:ARG:HE	2:B:1810:ARG:HB2	1.59	0.66
2:B:2341:LYS:O	2:B:2341:LYS:HD3	1.94	0.66
2:B:3208:GLY:HA2	2:B:3244:TRP:CE2	2.29	0.66
1:C:19:LEU:HD13	1:C:85:ARG:HE	1.60	0.66
1:C:153:THR:H	1:C:156:MET:HB3	1.60	0.66
1:C:1242:HIS:HB2	1:C:1476:TYR:HE1	1.58	0.66
2:D:1829:LEU:O	2:D:1829:LEU:HD13	1.95	0.66
2:D:2172:TYR:HB2	2:D:2293:PHE:CA	2.25	0.66
2:D:3177:LEU:HD13	2:D:3177:LEU:H	1.59	0.66
1:A:224:GLN:OE1	1:A:229:LYS:HD3	1.96	0.66
1:A:373:LEU:HD22	1:A:373:LEU:H	1.60	0.66
1:A:676:LEU:HD21	1:A:1365:ARG:N	2.11	0.66
1:A:845:LEU:HD11	1:A:926:PRO:HG3	1.76	0.66
1:A:1249:GLN:HB2	1:A:1470:ARG:NH2	2.09	0.66
1:A:1647:LEU:HD12	1:A:1648:PHE:N	2.09	0.66
2:B:2140:ILE:CG1	2:B:2143:MET:HG3	2.25	0.66
2:B:2999:TRP:CE3	2:B:3051:ILE:HG21	2.29	0.66
1:C:408:GLY:N	1:C:653:PRO:HG2	2.06	0.66
1:C:676:LEU:HD21	1:C:1365:ARG:N	2.11	0.66
1:C:1319:TRP:HD1	1:C:1490:LEU:CD1	2.07	0.66
1:C:1392:ASP:HB2	1:C:1395:PHE:CE1	2.30	0.66
2:D:1793:ILE:HD13	2:D:1867:TYR:HD1	1.60	0.66
2:D:1851:HIS:HA	2:D:1862:ILE:HG22	1.75	0.66
2:D:2950:ASN:CB	2:D:2960:TYR:H	2.09	0.66
1:A:468:CYS:HB2	1:A:479:CYS:CA	2.25	0.66
1:A:643:TRP:O	1:A:647:GLN:HG2	1.96	0.66
1:A:1331:LEU:O	1:A:1334:LYS:HB2	1.94	0.66
1:A:1363:ASN:HD21	1:A:1368:HIS:HB2	1.61	0.66
1:A:1585:MET:SD	1:A:1585:MET:C	2.78	0.66
2:B:1693:HIS:HD2	2:D:2101:TYR:C	2.03	0.66
2:B:1793:ILE:HD13	2:B:1867:TYR:HD1	1.60	0.66
2:B:2964:VAL:HG11	2:B:2969:ILE:HG13	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3162:ASN:O	2:B:3165:VAL:HG22	1.95	0.66
2:B:3338:PRO:HB2	2:B:3379:SER:CB	2.26	0.66
1:C:273:LEU:HD22	1:C:275:TYR:CE2	2.27	0.66
1:C:1313:MET:HE3	1:C:1595:MET:HE3	1.77	0.66
2:D:2156:GLN:NE2	2:D:2334:ASN:HD21	1.94	0.66
2:D:2291:HIS:O	2:D:2294:VAL:HG12	1.95	0.66
2:D:2300:VAL:HG13	2:D:2368:LEU:HD22	1.75	0.66
2:D:2798:PHE:CE2	2:D:2884:PRO:HG3	2.30	0.66
2:D:3162:ASN:O	2:D:3165:VAL:HG22	1.95	0.66
2:D:3327:MET:HG2	2:D:3328:PHE:H	1.59	0.66
1:A:148:LYS:CD	1:A:150:GLY:O	2.36	0.66
1:A:224:GLN:O	1:A:227:ARG:HB3	1.95	0.66
1:A:286:THR:HG22	1:A:288:GLU:H	1.60	0.66
1:A:853:LEU:HD13	1:A:959:TRP:CZ2	2.30	0.66
1:A:931:THR:HG22	1:A:991:ILE:CG1	2.25	0.66
1:A:943:HIS:CE1	1:A:946:TYR:CZ	2.84	0.66
1:A:1244:GLU:HG3	1:A:1473:LYS:C	2.20	0.66
2:B:1675:ASP:O	2:B:1679:GLN:HG3	1.95	0.66
2:B:1811:LEU:HD12	2:B:1853:TRP:HE3	1.61	0.66
2:B:2336:ASN:O	2:B:2339:THR:HG22	1.95	0.66
2:B:2493:ASP:CG	2:B:3124:VAL:HG21	2.20	0.66
2:B:2761:TYR:HA	2:B:2764:PHE:HD1	1.59	0.66
2:B:2912:ILE:CG2	2:B:2995:PRO:HB2	2.06	0.66
2:B:3308:ILE:CG1	2:B:3329:MET:HB2	2.25	0.66
1:C:481:VAL:CG2	1:C:487:PHE:HA	2.25	0.66
1:C:600:ILE:HG21	1:C:777:PHE:CZ	2.29	0.66
1:C:845:LEU:HD11	1:C:926:PRO:HG3	1.76	0.66
1:C:931:THR:HG22	1:C:991:ILE:CG1	2.25	0.66
1:C:1254:SER:HB3	1:C:1521:TYR:C	2.21	0.66
1:C:1363:ASN:HD21	1:C:1368:HIS:HB2	1.61	0.66
1:C:1388:ARG:NH1	1:C:1450:VAL:HG21	2.11	0.66
2:D:2026:ILE:HD12	2:D:2030:LEU:HD11	1.77	0.66
2:D:2036:ARG:HH21	2:D:2038:ASP:CB	2.05	0.66
2:D:2953:PRO:HD2	2:D:2960:TYR:HB3	1.76	0.66
2:D:3150:ASN:HD22	2:D:3152:ASP:HB2	1.61	0.66
2:D:3318:VAL:HG22	2:D:3394:HIS:HB3	1.77	0.66
1:A:322:VAL:HA	1:A:379:VAL:HG12	1.77	0.66
1:A:1313:MET:HE3	1:A:1595:MET:HE3	1.77	0.66
2:B:1844:GLU:O	2:B:1847:HIS:HB3	1.96	0.66
2:B:2529:ASP:OD1	2:B:2534:GLY:HA2	1.95	0.66
2:B:3216:LYS:HE2	2:B:3229:TYR:HD2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1088:ALA:H	1:C:1097:LYS:HZ3	1.34	0.66
1:C:1325:VAL:HG11	1:C:1515:TYR:CE1	2.23	0.66
1:C:1498:ASN:ND2	1:C:1503:THR:HG21	2.11	0.66
2:D:1880:GLN:NE2	2:D:1884:ILE:HG23	2.09	0.66
2:D:2102:ALA:O	2:D:2106:LEU:HG	1.96	0.66
2:D:3338:PRO:HB2	2:D:3379:SER:CB	2.26	0.66
1:A:408:GLY:N	1:A:653:PRO:HG2	2.06	0.66
1:A:666:HIS:CD2	1:A:686:ALA:HB3	2.28	0.66
1:A:928:TRP:HZ3	1:A:1041:LEU:HD21	1.61	0.66
1:A:1034:ARG:HD2	1:A:1035:TYR:CE2	2.31	0.66
2:B:1711:CYS:SG	2:B:1722:CYS:HA	2.36	0.66
2:B:1829:LEU:HD13	2:B:1829:LEU:O	1.95	0.66
2:B:2102:ALA:O	2:B:2106:LEU:HG	1.96	0.66
2:B:2953:PRO:HD2	2:B:2960:TYR:HB3	1.76	0.66
1:C:446:PHE:CE2	1:C:455:TYR:HA	2.31	0.66
1:C:464:LEU:HD23	1:C:767:LYS:CE	2.25	0.66
1:C:1148:LEU:HB2	1:C:1187:TYR:CE2	2.31	0.66
1:C:1244:GLU:HG3	1:C:1473:LYS:C	2.19	0.66
1:C:1549:VAL:CG2	1:C:1607:ILE:HD11	2.26	0.66
2:D:2124:LEU:HD12	2:D:2212:HIS:HE1	1.59	0.66
2:D:2529:ASP:OD1	2:D:2534:GLY:HA2	1.95	0.66
2:D:3378:ALA:HB2	2:D:3384:CYS:HA	1.76	0.66
1:A:26:LEU:HB2	1:A:83:LYS:CD	2.24	0.66
1:A:26:LEU:HA	1:A:83:LYS:HD2	1.77	0.66
1:A:964:ILE:HG12	1:A:1038:PHE:CG	2.30	0.66
1:A:1306:ILE:CG2	1:A:1595:MET:HB3	2.22	0.66
1:A:1549:VAL:CG2	1:A:1607:ILE:HD11	2.26	0.66
2:B:1695:SER:HB2	2:D:2195:TRP:HB3	1.76	0.66
2:B:1707:LEU:HA	2:B:1708:PRO:C	2.20	0.66
2:B:1747:LYS:HZ3	2:D:2094:ARG:NE	1.91	0.66
2:B:2498:SER:HB2	2:B:3397:ASP:CB	2.26	0.66
2:B:2596:THR:HG21	2:B:2773:PHE:CZ	2.30	0.66
2:B:3347:ALA:HB1	2:D:3315:PRO:HG3	1.76	0.66
1:C:322:VAL:HA	1:C:379:VAL:HG12	1.77	0.66
1:C:769:MET:HA	1:C:769:MET:CE	2.18	0.66
1:C:802:ILE:HB	1:C:810:LEU:HD12	1.78	0.66
1:C:1156:LEU:HD21	1:C:1173:GLU:OE1	1.95	0.66
2:D:1850:VAL:HG21	2:D:1877:HIS:CE1	2.31	0.66
2:D:1969:GLU:O	2:D:2070:ALA:HB2	1.96	0.66
2:D:2923:LEU:HD13	2:D:2995:PRO:HG3	1.76	0.66
1:A:600:ILE:HG21	1:A:777:PHE:CZ	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2106:LEU:HD23	2:B:2164:HIS:CD2	2.30	0.66
2:B:2127:LYS:HD3	2:B:2333:ILE:CD1	2.25	0.66
2:B:3044:LYS:HG3	2:B:3045:PHE:N	2.10	0.66
2:B:3340:LEU:HD21	2:B:3343:GLY:CA	2.26	0.66
1:C:464:LEU:HD13	1:C:465:PRO:CA	2.24	0.66
1:C:1249:GLN:HB2	1:C:1470:ARG:NH2	2.10	0.66
1:C:1319:TRP:HA	1:C:1490:LEU:HD22	1.78	0.66
2:D:1890:SER:HA	2:D:1893:ARG:NE	2.11	0.66
2:D:2596:THR:HG21	2:D:2773:PHE:CZ	2.30	0.66
2:D:3294:ARG:O	2:D:3304:ILE:HG22	1.95	0.66
1:A:446:PHE:CE2	1:A:455:TYR:HA	2.31	0.66
1:A:552:GLU:HG3	1:A:554:ASN:N	2.07	0.66
1:A:1549:VAL:HG21	1:A:1646:ILE:HD11	1.76	0.66
1:A:1662:THR:O	2:B:1893:ARG:CB	2.44	0.66
2:B:2382:VAL:HG11	2:B:2484:TYR:CE1	2.31	0.66
1:C:454:GLY:O	1:C:458:THR:HG23	1.96	0.66
1:C:493:LEU:O	1:C:493:LEU:HD23	1.95	0.66
1:C:853:LEU:HD13	1:C:959:TRP:CZ2	2.31	0.66
2:D:1768:GLU:CA	2:D:1771:THR:HG22	2.25	0.66
2:D:2083:LYS:HD3	2:D:2169:ALA:HA	1.78	0.66
2:D:2140:ILE:HG12	2:D:2143:MET:CB	2.24	0.66
2:D:2140:ILE:CG1	2:D:2143:MET:HG3	2.25	0.66
2:D:3044:LYS:HG3	2:D:3045:PHE:N	2.10	0.66
2:D:3144:PHE:C	2:D:3149:VAL:HG11	2.21	0.66
1:A:1388:ARG:NH1	1:A:1450:VAL:HG21	2.11	0.66
2:B:1707:LEU:HD21	2:B:2012:LYS:CD	2.26	0.66
2:B:1757:TRP:HB2	2:B:1876:ILE:CG2	2.25	0.66
2:B:2083:LYS:HD3	2:B:2169:ALA:HA	1.78	0.66
2:B:2179:ILE:HD13	2:B:2182:ILE:HD13	1.77	0.66
2:B:2255:GLN:HA	2:B:2433:PHE:CE1	2.23	0.66
2:B:2569:TRP:HB2	2:B:2736:LEU:HD13	1.78	0.66
2:B:3339:MET:HE1	2:B:3389:LEU:HD13	1.78	0.66
1:C:395:LEU:O	1:C:395:LEU:HD23	1.95	0.66
1:C:552:GLU:CD	1:C:554:ASN:HB2	2.21	0.66
1:C:1142:PHE:C	1:C:1195:ILE:HG22	2.21	0.66
1:C:1484:GLN:NE2	2:D:2065:ILE:CB	2.57	0.66
1:C:1539:MET:HE1	1:C:1542:GLU:OE1	1.96	0.66
2:D:2026:ILE:HB	2:D:2030:LEU:CD1	2.26	0.66
2:D:2950:ASN:HB3	2:D:2960:TYR:H	1.61	0.66
2:D:3193:SER:O	2:D:3196:LEU:HB3	1.96	0.66
1:A:89:LEU:HD23	1:A:89:LEU:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HG21	1:A:552:GLU:HG2	1.76	0.65
1:A:1325:VAL:CG1	1:A:1515:TYR:CE1	2.80	0.65
1:A:1657:THR:CB	2:B:1900:SER:CB	2.72	0.65
2:B:1880:GLN:NE2	2:B:1884:ILE:HG23	2.09	0.65
2:B:2497:SER:CB	2:B:3322:ARG:NH1	2.59	0.65
2:B:2526:VAL:CG2	2:B:2581:LEU:HD23	2.20	0.65
2:B:3136:ILE:HD11	2:D:3345:TYR:OH	1.95	0.65
1:C:286:THR:HG22	1:C:288:GLU:H	1.60	0.65
1:C:1318:HIS:CG	1:C:1509:PRO:HB3	2.31	0.65
1:C:1585:MET:SD	1:C:1585:MET:C	2.78	0.65
1:C:1614:ASN:OD1	1:C:1616:VAL:HG13	1.96	0.65
2:D:1707:LEU:HD21	2:D:2012:LYS:CD	2.26	0.65
2:D:2979:ILE:HD12	2:D:2980:GLN:N	2.11	0.65
2:D:3292:ILE:HG23	2:D:3306:ILE:HB	1.77	0.65
1:A:244:LYS:HZ2	1:A:263:THR:HB	1.60	0.65
1:A:549:ILE:HB	1:A:552:GLU:HG2	1.77	0.65
1:A:576:THR:HG23	1:A:579:PHE:HB2	1.78	0.65
1:A:1084:PHE:O	1:A:1097:LYS:HG2	1.95	0.65
2:B:1708:PRO:HD3	2:B:1795:PHE:CD1	2.31	0.65
2:B:2979:ILE:HD12	2:B:2980:GLN:N	2.11	0.65
1:C:928:TRP:HZ3	1:C:1041:LEU:HD21	1.61	0.65
2:D:1675:ASP:O	2:D:1679:GLN:HG3	1.95	0.65
1:A:46:ALA:HB1	1:A:55:ILE:O	1.97	0.65
1:A:95:THR:HG22	1:A:283:ASN:HD21	1.61	0.65
1:A:98:ILE:O	1:A:145:GLU:HB3	1.97	0.65
1:A:454:GLY:O	1:A:458:THR:HG23	1.96	0.65
1:A:552:GLU:CD	1:A:554:ASN:HB2	2.21	0.65
1:A:1087:SER:OG	1:A:1097:LYS:CD	2.39	0.65
1:A:1148:LEU:HB2	1:A:1187:TYR:CE2	2.31	0.65
1:A:1498:ASN:ND2	1:A:1503:THR:HG21	2.11	0.65
2:B:1907:ASN:ND2	2:B:1908:LEU:HD12	2.12	0.65
2:B:1991:GLN:CG	2:B:2001:ASP:HA	2.07	0.65
2:B:2155:LEU:HG	2:B:2354:LEU:HD13	1.78	0.65
2:B:2291:HIS:O	2:B:2294:VAL:HG12	1.95	0.65
2:B:2950:ASN:HB3	2:B:2960:TYR:H	1.61	0.65
2:B:3318:VAL:HG22	2:B:3394:HIS:HB3	1.78	0.65
1:C:860:LEU:HB2	1:C:919:HIS:CD2	2.32	0.65
1:C:1034:ARG:HD2	1:C:1035:TYR:CE2	2.31	0.65
1:C:1079:GLU:CB	2:D:2456:GLU:CG	2.72	0.65
2:D:1811:LEU:HD12	2:D:1853:TRP:HE3	1.61	0.65
2:D:1844:GLU:O	2:D:1847:HIS:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3102:PHE:CZ	2:D:3106:HIS:HE1	2.15	0.65
1:A:63:PRO:HA	1:A:172:GLU:HG3	1.78	0.65
1:A:587:GLU:HG2	1:A:719:ILE:CG2	2.25	0.65
1:A:995:VAL:O	1:A:999:LEU:HG	1.96	0.65
1:A:1318:HIS:CG	1:A:1509:PRO:HB3	2.31	0.65
2:B:2100:LYS:HE2	2:B:2203:PRO:CD	2.26	0.65
2:B:2214:THR:HG22	2:B:2215:TYR:N	2.11	0.65
1:C:241:LEU:O	1:C:241:LEU:HD13	1.97	0.65
1:C:895:VAL:HG12	1:C:904:TRP:CB	2.26	0.65
1:C:1036:THR:CG2	1:C:1042:PHE:HD2	2.04	0.65
2:D:1689:MET:HG2	2:D:1698:PHE:HB2	1.77	0.65
2:D:1724:VAL:HG11	2:D:1729:THR:HB	1.79	0.65
2:D:2083:LYS:NZ	2:D:2158:GLU:HB3	2.12	0.65
2:D:2103:LEU:HD11	2:D:2204:PHE:CE2	2.31	0.65
2:D:2106:LEU:HD23	2:D:2164:HIS:CD2	2.30	0.65
2:D:2214:THR:HG22	2:D:2215:TYR:N	2.11	0.65
2:D:2401:PHE:CE1	2:D:2460:ILE:HG21	2.30	0.65
2:D:2887:GLU:HG2	2:D:2888:HIS:N	2.10	0.65
2:D:3144:PHE:HA	2:D:3149:VAL:HG11	1.79	0.65
1:A:241:LEU:CD2	1:A:264:PRO:HB2	2.24	0.65
1:A:698:LEU:HB3	1:A:700:TYR:HD1	1.62	0.65
1:A:1202:LEU:CB	1:A:1204:LEU:HG	2.27	0.65
1:A:1236:HIS:HD2	1:A:1238:PRO:HD3	1.60	0.65
1:A:1271:GLU:O	1:A:1274:ARG:HG2	1.96	0.65
2:B:2156:GLN:NE2	2:B:2334:ASN:HD21	1.94	0.65
2:B:2175:TRP:HB2	2:B:2263:ILE:CD1	2.23	0.65
2:B:2220:VAL:HG13	2:B:2266:LEU:HD11	1.77	0.65
2:B:2220:VAL:HG22	2:B:2267:VAL:HA	1.77	0.65
2:B:2799:LEU:C	2:B:2800:LEU:HD23	2.22	0.65
2:B:2998:ASP:O	2:B:3001:GLN:HG2	1.96	0.65
1:C:63:PRO:HA	1:C:172:GLU:HG3	1.78	0.65
1:C:1086:LEU:CD2	1:C:1090:ILE:HD13	2.16	0.65
2:D:2799:LEU:C	2:D:2800:LEU:HD23	2.22	0.65
2:D:2893:LYS:HG2	2:D:2894:HIS:N	2.11	0.65
1:A:583:LEU:HD12	1:A:718:MET:HE2	1.78	0.65
1:A:860:LEU:HB2	1:A:919:HIS:CD2	2.32	0.65
1:A:1012:GLU:O	1:A:1015:HIS:HB3	1.97	0.65
1:A:1142:PHE:C	1:A:1195:ILE:HG22	2.21	0.65
2:B:1850:VAL:HG21	2:B:1877:HIS:CE1	2.31	0.65
2:B:1890:SER:HA	2:B:1893:ARG:NE	2.11	0.65
2:B:2403:ILE:HD11	2:B:2452:PHE:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3307:PRO:HG2	2:B:3328:PHE:HA	1.79	0.65
1:C:1202:LEU:CB	1:C:1204:LEU:HG	2.27	0.65
2:D:1671:ILE:HD11	2:D:1769:LEU:CD1	2.27	0.65
2:D:2155:LEU:HG	2:D:2354:LEU:HD13	1.78	0.65
2:D:3204:PHE:HB3	2:D:3206:LEU:HD22	1.79	0.65
2:D:3316:PRO:CB	2:D:3392:HIS:HB3	2.12	0.65
1:A:452:VAL:HG12	1:A:1365:ARG:HG3	1.78	0.65
1:A:802:ILE:HB	1:A:810:LEU:HD12	1.78	0.65
1:A:895:VAL:HG12	1:A:904:TRP:CB	2.26	0.65
1:A:991:ILE:O	1:A:995:VAL:HG22	1.97	0.65
1:A:1254:SER:HB3	1:A:1521:TYR:C	2.20	0.65
2:B:2026:ILE:HB	2:B:2030:LEU:CD1	2.26	0.65
2:B:2026:ILE:HD12	2:B:2030:LEU:HD11	1.77	0.65
2:B:2083:LYS:NZ	2:B:2158:GLU:HB3	2.12	0.65
2:B:2929:LYS:HA	2:B:2932:ASN:ND2	2.12	0.65
2:B:3042:GLN:HG2	2:B:3049:SER:OG	1.96	0.65
2:B:3112:ILE:O	2:B:3115:ILE:HG12	1.97	0.65
1:C:408:GLY:N	1:C:653:PRO:CG	2.60	0.65
1:C:428:ILE:HD13	1:C:514:TRP:HA	1.78	0.65
2:D:1706:ALA:CB	2:D:1866:HIS:HA	2.27	0.65
2:D:1707:LEU:HA	2:D:1708:PRO:C	2.20	0.65
2:D:1769:LEU:HB3	2:D:1770:LEU:HD12	1.79	0.65
2:D:1804:ARG:NH1	2:D:1873:LEU:HB2	2.12	0.65
2:D:2387:GLY:HA3	2:D:2481:THR:HG23	1.79	0.65
2:D:2526:VAL:CG2	2:D:2581:LEU:HD23	2.20	0.65
2:D:3039:ILE:HG22	2:D:3040:PHE:N	2.12	0.65
2:D:3042:GLN:HG2	2:D:3049:SER:OG	1.96	0.65
2:D:3081:LEU:H	2:D:3081:LEU:HD22	1.60	0.65
2:D:3307:PRO:HG2	2:D:3328:PHE:HA	1.79	0.65
2:D:3340:LEU:HD21	2:D:3343:GLY:CA	2.26	0.65
1:A:216:ILE:HD13	1:A:219:ILE:HD12	1.78	0.65
1:A:395:LEU:O	1:A:395:LEU:HD23	1.95	0.65
1:A:509:ILE:CG2	1:A:510:GLY:N	2.60	0.65
1:A:1242:HIS:HB2	1:A:1476:TYR:HE1	1.57	0.65
1:A:1310:VAL:CG2	1:A:1316:PHE:HA	2.25	0.65
1:A:1422:ILE:HA	1:A:1425:ASN:ND2	2.12	0.65
2:B:1969:GLU:O	2:B:2070:ALA:HB2	1.96	0.65
2:B:2195:TRP:HB2	2:D:1922:TYR:HA	1.58	0.65
2:B:2950:ASN:CB	2:B:2960:TYR:H	2.09	0.65
2:B:3292:ILE:HG23	2:B:3306:ILE:HB	1.77	0.65
1:C:163:LEU:O	1:C:163:LEU:HD13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:426:LYS:HB3	1:C:430:ASP:CG	2.22	0.65
1:C:1271:GLU:O	1:C:1274:ARG:HG2	1.96	0.65
2:D:2240:ALA:HA	2:D:2259:MET:HE2	1.79	0.65
2:D:2811:PHE:O	2:D:2823:ALA:HB3	1.97	0.65
2:D:3112:ILE:O	2:D:3115:ILE:HG12	1.97	0.65
1:A:163:LEU:HD13	1:A:163:LEU:O	1.97	0.65
1:A:428:ILE:HD13	1:A:514:TRP:HA	1.78	0.65
1:A:1274:ARG:NH1	1:A:1365:ARG:NH2	2.42	0.65
1:A:1319:TRP:HA	1:A:1490:LEU:HD22	1.78	0.65
2:B:2634:LEU:HD12	2:B:2676:TRP:CE3	2.26	0.65
2:B:2811:PHE:O	2:B:2823:ALA:HB3	1.97	0.65
2:B:3150:ASN:HD22	2:B:3152:ASP:HB2	1.61	0.65
1:C:46:ALA:HB1	1:C:55:ILE:O	1.97	0.65
1:C:88:GLY:O	1:C:90:PRO:HD3	1.97	0.65
1:C:1235:ILE:HG23	2:D:2319:VAL:HG23	1.78	0.65
1:C:1618:LEU:CD1	2:D:1906:VAL:HG11	2.25	0.65
2:D:1965:ARG:HD2	2:D:2074:ILE:H	1.62	0.65
2:D:2182:ILE:HD11	2:D:2224:LEU:CD1	2.27	0.65
2:D:2207:GLY:O	2:D:2216:THR:HG23	1.97	0.65
2:D:2688:LEU:HD13	2:D:2829:LEU:CD1	2.27	0.65
1:A:853:LEU:HD21	1:A:921:TYR:CE2	2.32	0.65
2:B:1769:LEU:HB3	2:B:1770:LEU:HD12	1.79	0.65
2:B:1965:ARG:HD2	2:B:2074:ILE:H	1.62	0.65
2:B:2000:GLU:HG3	2:B:2033:MET:SD	2.37	0.65
2:B:2446:ILE:HG21	2:B:2452:PHE:CE1	2.32	0.65
2:B:3020:PHE:CE2	2:B:3021:LYS:HE3	2.32	0.65
2:B:3243:PRO:CG	2:D:3354:PRO:CB	2.66	0.65
1:C:216:ILE:HD13	1:C:219:ILE:HD12	1.78	0.65
1:C:602:HIS:CE1	1:C:636:VAL:HG21	2.31	0.65
2:D:1711:CYS:SG	2:D:1722:CYS:HA	2.36	0.65
2:D:2244:LEU:HD11	2:D:2304:LEU:CD2	2.27	0.65
2:D:2336:ASN:O	2:D:2339:THR:HG22	1.95	0.65
2:D:2998:ASP:O	2:D:3001:GLN:HG2	1.97	0.65
1:A:20:GLN:HA	1:A:122:TYR:CZ	2.32	0.64
1:A:1614:ASN:OD1	1:A:1616:VAL:HG13	1.97	0.64
2:B:1687:GLU:HG3	2:B:1690:LYS:HZ1	1.61	0.64
2:B:1828:LEU:O	2:B:1828:LEU:HD23	1.96	0.64
2:B:3291:ILE:CD1	2:B:3314:LEU:HD13	2.25	0.64
1:C:95:THR:HG22	1:C:283:ASN:HD21	1.61	0.64
1:C:98:ILE:O	1:C:145:GLU:HB3	1.96	0.64
1:C:224:GLN:OE1	1:C:229:LYS:HD3	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:468:CYS:HB2	1:C:479:CYS:CA	2.25	0.64
1:C:549:ILE:HB	1:C:552:GLU:HG2	1.78	0.64
1:C:576:THR:HG23	1:C:579:PHE:HB2	1.78	0.64
1:C:928:TRP:NE1	1:C:934:LEU:HD11	2.12	0.64
1:C:1012:GLU:O	1:C:1015:HIS:HB3	1.97	0.64
1:C:1189:ARG:NH2	2:D:2431:ARG:C	2.54	0.64
1:C:1280:ILE:HA	1:C:1334:LYS:HD2	1.79	0.64
1:C:1409:GLU:CG	1:C:1544:LYS:HE2	2.27	0.64
2:D:2566:PHE:CD1	2:D:2567:PRO:HD3	2.31	0.64
2:D:2822:PHE:HE2	2:D:2825:THR:HG23	1.62	0.64
2:D:2971:PRO:HG2	2:D:3064:TYR:OH	1.98	0.64
2:D:3194:LEU:HD12	2:D:3194:LEU:H	1.62	0.64
2:D:3308:ILE:CG1	2:D:3329:MET:HB2	2.25	0.64
1:A:602:HIS:CE1	1:A:636:VAL:HG21	2.31	0.64
2:B:1695:SER:CA	2:D:2195:TRP:HD1	2.10	0.64
2:B:2103:LEU:HD11	2:B:2204:PHE:CE2	2.31	0.64
2:B:2387:GLY:HA3	2:B:2481:THR:HG23	1.79	0.64
2:B:2688:LEU:HD13	2:B:2829:LEU:CD1	2.27	0.64
2:B:2971:PRO:HG2	2:B:3064:TYR:OH	1.97	0.64
2:B:3144:PHE:C	2:B:3149:VAL:HG11	2.21	0.64
2:B:3204:PHE:HB3	2:B:3206:LEU:HD22	1.79	0.64
2:B:3213:ALA:O	2:B:3234:VAL:HG23	1.97	0.64
2:D:1687:GLU:HG3	2:D:1690:LYS:HZ1	1.61	0.64
2:D:1689:MET:HA	2:D:1748:HIS:CE1	2.32	0.64
2:D:2127:LYS:HD3	2:D:2333:ILE:CD1	2.25	0.64
2:D:2622:LEU:HD12	2:D:2624:VAL:CB	2.27	0.64
2:D:2856:LEU:HD13	2:D:2862:PHE:HB3	1.80	0.64
1:A:1618:LEU:CD2	1:A:1648:PHE:HB2	2.28	0.64
2:B:1693:HIS:O	2:D:2101:TYR:CZ	2.51	0.64
2:B:3076:ASN:CB	2:B:3236:LEU:HD13	2.28	0.64
1:C:146:LYS:HZ2	1:C:148:LYS:HE3	1.62	0.64
2:D:2220:VAL:HG13	2:D:2266:LEU:HD11	1.77	0.64
2:D:2220:VAL:HG22	2:D:2267:VAL:HA	1.77	0.64
2:D:2403:ILE:HD11	2:D:2452:PHE:CD1	2.32	0.64
2:D:2569:TRP:HB2	2:D:2736:LEU:HD13	1.78	0.64
2:D:2794:THR:OG1	2:D:2847:ILE:HD11	1.97	0.64
2:B:2155:LEU:HG	2:B:2354:LEU:HD22	1.79	0.64
2:B:2173:TRP:CZ2	2:B:2179:ILE:HD12	2.33	0.64
2:B:2388:PHE:HB2	2:B:2433:PHE:HB3	1.80	0.64
2:B:2401:PHE:CE2	2:B:2413:GLY:HA3	2.33	0.64
2:B:2627:THR:HG23	2:B:2681:THR:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2651:LEU:O	2:B:2651:LEU:HD13	1.98	0.64
2:B:3193:SER:O	2:B:3196:LEU:HB3	1.96	0.64
1:C:80:LEU:O	1:C:83:LYS:HB2	1.97	0.64
1:C:89:LEU:HD23	1:C:89:LEU:N	2.11	0.64
1:C:1422:ILE:HA	1:C:1425:ASN:ND2	2.11	0.64
1:C:1427:LEU:CD1	1:C:1431:LEU:HD12	2.27	0.64
2:D:1708:PRO:HD3	2:D:1795:PHE:CD1	2.31	0.64
2:D:1907:ASN:ND2	2:D:1908:LEU:HD12	2.12	0.64
2:D:2152:LEU:HD23	2:D:2329:PHE:CD2	2.33	0.64
2:D:2401:PHE:CE2	2:D:2413:GLY:HA3	2.33	0.64
2:D:2651:LEU:O	2:D:2651:LEU:HD13	1.98	0.64
2:D:3071:TYR:CE1	2:D:3109:LEU:HD22	2.33	0.64
2:D:3213:ALA:O	2:D:3234:VAL:HG23	1.98	0.64
1:A:241:LEU:HD13	1:A:241:LEU:O	1.97	0.64
1:A:748:LYS:HB2	1:A:754:GLN:HE21	1.63	0.64
1:A:1345:TRP:HZ2	1:A:1430:LEU:HD22	1.63	0.64
1:A:1409:GLU:CG	1:A:1544:LYS:HE2	2.27	0.64
2:B:1671:ILE:HD11	2:B:1769:LEU:CD1	2.27	0.64
2:B:1724:VAL:HG11	2:B:1729:THR:HB	1.79	0.64
2:B:2040:ILE:HG13	2:B:2040:ILE:O	1.98	0.64
2:B:2566:PHE:CD1	2:B:2567:PRO:HD3	2.31	0.64
2:B:2794:THR:OG1	2:B:2847:ILE:HD11	1.97	0.64
2:B:2965:HIS:HA	2:B:2970:PHE:HD1	1.63	0.64
2:B:3104:ILE:HG13	2:B:3105:HIS:N	2.12	0.64
2:B:3163:ALA:O	2:B:3169:ARG:HD3	1.98	0.64
2:B:3195:ARG:HH12	2:B:3295:ARG:NE	1.95	0.64
2:B:3247:GLU:HG3	2:B:3248:ARG:HG2	1.79	0.64
2:B:3344:SER:HB3	2:B:3348:MET:CB	2.27	0.64
1:C:549:ILE:HG21	1:C:552:GLU:HG2	1.76	0.64
1:C:582:ILE:HG12	1:C:601:THR:HG21	1.80	0.64
1:C:587:GLU:HG2	1:C:719:ILE:CG2	2.25	0.64
1:C:1078:ARG:HB2	2:D:2457:PRO:CD	2.16	0.64
1:C:1079:GLU:CB	2:D:2456:GLU:HG3	2.26	0.64
1:C:1318:HIS:O	1:C:1322:LEU:HD23	1.98	0.64
2:D:1770:LEU:HD12	2:D:1770:LEU:N	2.12	0.64
2:D:1973:VAL:HG23	2:D:2026:ILE:CG1	2.19	0.64
2:D:2100:LYS:HE2	2:D:2203:PRO:CD	2.26	0.64
2:D:2179:ILE:HD13	2:D:2182:ILE:HD13	1.77	0.64
2:D:3339:MET:HE1	2:D:3389:LEU:HD13	1.77	0.64
1:A:80:LEU:O	1:A:83:LYS:HB2	1.97	0.64
1:A:928:TRP:NE1	1:A:934:LEU:HD11	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1539:MET:HE1	1:A:1542:GLU:OE1	1.96	0.64
1:A:1604:LYS:NZ	1:A:1647:LEU:HD23	2.12	0.64
2:B:1804:ARG:NH1	2:B:1873:LEU:HB2	2.13	0.64
2:B:2497:SER:HB2	2:B:3322:ARG:NH1	2.13	0.64
2:B:3016:ASN:O	2:B:3018:PRO:HD3	1.98	0.64
2:B:3102:PHE:CZ	2:B:3106:HIS:HE1	2.15	0.64
1:C:452:VAL:HG12	1:C:1365:ARG:HG3	1.78	0.64
1:C:509:ILE:CG2	1:C:510:GLY:N	2.59	0.64
1:C:583:LEU:HD12	1:C:718:MET:HE2	1.78	0.64
1:C:643:TRP:O	1:C:647:GLN:HG2	1.96	0.64
1:C:995:VAL:O	1:C:999:LEU:HG	1.96	0.64
1:C:1242:HIS:CE1	1:C:1477:ARG:HH21	2.15	0.64
1:C:1287:GLU:OE1	1:C:1380:THR:HG22	1.98	0.64
1:C:1491:GLN:HE22	1:C:1495:LYS:HE2	1.62	0.64
2:D:1977:PHE:HE1	2:D:2063:PRO:HG3	1.62	0.64
2:D:2000:GLU:HG3	2:D:2033:MET:SD	2.37	0.64
2:D:2979:ILE:O	2:D:2983:ARG:HG3	1.98	0.64
2:D:3020:PHE:CE2	2:D:3021:LYS:HE3	2.33	0.64
2:D:3115:ILE:HG13	2:D:3116:TRP:N	2.13	0.64
2:D:3247:GLU:HG3	2:D:3248:ARG:HG2	1.79	0.64
1:A:23:LEU:CD2	1:A:122:TYR:HD2	2.05	0.64
1:A:446:PHE:CE1	1:A:501:ALA:HB1	2.33	0.64
1:A:582:ILE:HG12	1:A:601:THR:HG21	1.80	0.64
1:A:646:LEU:HD23	1:A:646:LEU:O	1.98	0.64
1:A:1059:LEU:HD11	1:A:1063:ARG:NH2	2.13	0.64
1:A:1145:GLY:HA3	1:A:1190:VAL:HG11	1.80	0.64
2:B:1706:ALA:CB	2:B:1866:HIS:HA	2.27	0.64
2:B:2151:ARG:O	2:B:2155:LEU:HD23	1.98	0.64
2:B:2527:MET:HA	2:B:2535:TYR:HB2	1.80	0.64
2:B:2568:HIS:HD2	2:B:2708:TRP:CH2	2.16	0.64
2:B:3039:ILE:HG22	2:B:3040:PHE:N	2.12	0.64
1:C:446:PHE:HB2	1:C:505:ARG:CD	2.28	0.64
1:C:549:ILE:CB	1:C:552:GLU:HG2	2.27	0.64
1:C:853:LEU:HD21	1:C:921:TYR:CE2	2.32	0.64
1:C:991:ILE:O	1:C:995:VAL:HG22	1.97	0.64
1:C:1212:ILE:HG13	1:C:1212:ILE:O	1.97	0.64
2:D:1696:ASP:O	2:D:1701:ILE:HD11	1.98	0.64
2:D:1828:LEU:HD23	2:D:1828:LEU:O	1.96	0.64
2:D:2275:LEU:HD22	2:D:2275:LEU:H	1.63	0.64
2:D:2527:MET:HA	2:D:2535:TYR:HB2	1.80	0.64
2:D:2971:PRO:HB3	2:D:3071:TYR:CE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3195:ARG:HH12	2:D:3295:ARG:NE	1.95	0.64
2:D:3291:ILE:CD1	2:D:3314:LEU:HD13	2.25	0.64
2:D:3344:SER:HB3	2:D:3348:MET:CB	2.27	0.64
1:A:19:LEU:HD13	1:A:85:ARG:HE	1.60	0.64
1:A:241:LEU:HD11	1:A:265:ALA:N	2.13	0.64
1:A:319:PHE:HD2	1:A:337:LYS:CE	2.10	0.64
1:A:943:HIS:HE1	1:A:946:TYR:CE1	2.16	0.64
1:A:1212:ILE:O	1:A:1212:ILE:HG13	1.97	0.64
1:A:1242:HIS:CE1	1:A:1477:ARG:HH21	2.15	0.64
1:A:1287:GLU:OE1	1:A:1380:THR:HG22	1.98	0.64
2:B:2140:ILE:HG12	2:B:2143:MET:CB	2.24	0.64
2:B:2760:GLU:HB3	2:B:2763:ARG:CD	2.28	0.64
2:B:2979:ILE:O	2:B:2983:ARG:HG3	1.98	0.64
2:B:3071:TYR:CE1	2:B:3109:LEU:HD22	2.33	0.64
2:B:3322:ARG:HH21	2:B:3397:ASP:HB2	1.63	0.64
1:C:319:PHE:HD2	1:C:337:LYS:CE	2.10	0.64
2:D:2155:LEU:HG	2:D:2354:LEU:HD22	1.79	0.64
2:D:2761:TYR:O	2:D:2764:PHE:HB2	1.98	0.64
2:D:2777:THR:CG2	2:D:2780:LYS:H	2.11	0.64
2:D:2929:LYS:HA	2:D:2932:ASN:ND2	2.11	0.64
2:D:3322:ARG:HH21	2:D:3397:ASP:HB2	1.63	0.64
1:A:426:LYS:HB3	1:A:430:ASP:CG	2.22	0.64
1:A:1086:LEU:HD22	1:A:1090:ILE:CD1	2.17	0.64
1:A:1280:ILE:HA	1:A:1334:LYS:HD2	1.80	0.64
1:A:1379:ILE:HD11	1:A:1381:HIS:CE1	2.33	0.64
2:B:1684:LYS:HE3	2:D:2162:ARG:HH22	1.62	0.64
2:B:1800:VAL:CG2	2:B:1803:LYS:HE2	2.26	0.64
2:B:2209:VAL:HG23	2:B:2283:TYR:CE2	2.33	0.64
2:B:2856:LEU:HD13	2:B:2862:PHE:HB3	1.80	0.64
2:B:3187:LEU:HD12	2:B:3190:VAL:HG11	1.80	0.64
2:B:3194:LEU:H	2:B:3194:LEU:HD12	1.62	0.64
1:C:270:TYR:HA	1:C:273:LEU:HD13	1.80	0.64
1:C:698:LEU:HD12	1:C:700:TYR:HD1	1.61	0.64
1:C:943:HIS:HE1	1:C:946:TYR:CE1	2.16	0.64
1:C:1059:LEU:HD11	1:C:1063:ARG:NH2	2.13	0.64
1:C:1365:ARG:HG3	1:C:1366:GLN:OE1	1.96	0.64
1:C:1566:VAL:HG22	1:C:1626:ILE:HG22	1.80	0.64
1:C:1604:LYS:NZ	1:C:1647:LEU:HD23	2.12	0.64
2:D:2151:ARG:O	2:D:2155:LEU:HD23	1.97	0.64
1:A:486:ILE:CD1	1:A:688:PRO:HG2	2.17	0.64
1:A:582:ILE:HG22	1:A:586:PHE:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:LEU:CD1	1:A:1365:ARG:HD2	2.28	0.64
2:B:2182:ILE:HD11	2:B:2224:LEU:CD1	2.27	0.64
2:B:2665:GLN:NE2	2:B:2844:ARG:H	1.92	0.64
1:C:123:TRP:CH2	1:C:208:LEU:HD21	2.33	0.64
1:C:241:LEU:CD2	1:C:264:PRO:HB2	2.24	0.64
1:C:698:LEU:HB3	1:C:700:TYR:HD1	1.62	0.64
1:C:853:LEU:HD23	1:C:921:TYR:CG	2.33	0.64
1:C:1310:VAL:CG2	1:C:1316:PHE:HA	2.25	0.64
1:C:1345:TRP:HZ2	1:C:1430:LEU:HD22	1.63	0.64
1:C:1609:LYS:C	1:C:1609:LYS:HD3	2.23	0.64
2:D:2350:LYS:HG3	2:D:2352:GLU:OE1	1.98	0.64
1:A:170:LYS:O	1:A:173:ILE:HG12	1.98	0.63
1:A:710:ILE:HG22	1:A:711:SER:O	1.99	0.63
1:A:1141:ARG:HD2	1:A:1143:PHE:HZ	1.63	0.63
1:A:1239:ARG:HG3	1:A:1241:GLY:O	1.98	0.63
2:B:1689:MET:HA	2:B:1748:HIS:CE1	2.32	0.63
2:B:2542:HIS:CB	2:B:2692:THR:HB	2.28	0.63
2:B:2654:LEU:HD13	2:B:2781:LEU:HD21	1.80	0.63
2:B:2812:ASP:OD1	2:B:2865:HIS:HB3	1.98	0.63
1:C:646:LEU:O	1:C:646:LEU:HD23	1.98	0.63
1:C:943:HIS:CE1	1:C:946:TYR:CZ	2.84	0.63
1:C:1404:VAL:HA	1:C:1423:LEU:CD2	2.29	0.63
2:D:1800:VAL:CG2	2:D:1803:LYS:HE2	2.26	0.63
2:D:2577:MET:CE	2:D:2698:TRP:CZ2	2.71	0.63
2:D:2812:ASP:OD1	2:D:2865:HIS:HB3	1.98	0.63
2:D:3082:ILE:HB	2:D:3090:MET:CE	2.28	0.63
2:D:3200:VAL:O	2:D:3254:ILE:HD13	1.98	0.63
1:A:88:GLY:O	1:A:90:PRO:HD3	1.97	0.63
1:A:1427:LEU:CD1	1:A:1431:LEU:HD12	2.27	0.63
1:A:1472:ARG:O	1:A:1473:LYS:HG2	1.98	0.63
1:A:1662:THR:CB	2:B:1893:ARG:HB2	2.27	0.63
2:B:1977:PHE:HE1	2:B:2063:PRO:HG3	1.62	0.63
2:B:2622:LEU:HD12	2:B:2624:VAL:CB	2.27	0.63
1:C:234:MET:HB2	1:C:268:PHE:CZ	2.34	0.63
1:C:676:LEU:CD1	1:C:1365:ARG:HD2	2.28	0.63
2:D:2345:PRO:HA	2:D:2348:VAL:CG1	2.26	0.63
2:D:2741:ASP:HB3	2:D:2743:ILE:HG22	1.81	0.63
2:D:2965:HIS:HA	2:D:2970:PHE:HD1	1.63	0.63
2:D:3163:ALA:O	2:D:3169:ARG:HD3	1.98	0.63
1:A:549:ILE:HD13	1:A:622:TYR:CD1	2.34	0.63
1:A:549:ILE:CB	1:A:552:GLU:HG2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:931:THR:HA	1:A:991:ILE:CG2	2.28	0.63
1:A:1091:ASN:HB3	1:A:1097:LYS:HE3	1.79	0.63
1:A:1318:HIS:O	1:A:1322:LEU:HD23	1.98	0.63
1:C:2:ASN:ND2	1:C:276:ASP:HB2	2.13	0.63
1:C:197:LEU:HD23	1:C:344:LEU:CD1	2.29	0.63
1:C:446:PHE:CE1	1:C:501:ALA:HB1	2.33	0.63
1:C:710:ILE:HG22	1:C:711:SER:O	1.99	0.63
1:C:1013:ILE:HG12	1:C:1191:PHE:CE1	2.33	0.63
1:C:1156:LEU:HD13	1:C:1175:TYR:CD2	2.32	0.63
1:C:1235:ILE:HG23	2:D:2319:VAL:CG2	2.29	0.63
2:D:2772:ARG:HG2	2:D:2777:THR:HA	1.79	0.63
1:A:2:ASN:ND2	1:A:276:ASP:HB2	2.13	0.63
1:A:270:TYR:HA	1:A:273:LEU:HD13	1.80	0.63
1:A:424:VAL:O	1:A:509:ILE:HG23	1.98	0.63
1:A:468:CYS:HB3	1:A:477:TYR:CE1	2.34	0.63
1:A:1156:LEU:HD13	1:A:1175:TYR:CD2	2.32	0.63
1:A:1606:ASP:OD1	1:A:1608:THR:HG23	1.98	0.63
2:B:1714:PRO:CB	2:B:1922:TYR:CZ	2.80	0.63
2:B:2140:ILE:HG23	2:B:2146:PHE:CA	2.28	0.63
2:B:2275:LEU:H	2:B:2275:LEU:HD22	1.63	0.63
2:B:2278:LEU:HD22	2:B:2421:GLY:H	1.63	0.63
2:B:3115:ILE:HG13	2:B:3116:TRP:N	2.13	0.63
1:C:499:GLU:HA	1:C:502:LEU:HD13	1.81	0.63
1:C:576:THR:HG23	1:C:579:PHE:H	1.64	0.63
1:C:1240:ILE:O	1:C:1240:ILE:HG13	1.98	0.63
2:D:1849:GLY:O	2:D:1852:THR:HG22	1.97	0.63
2:D:1991:GLN:HG2	2:D:2001:ASP:CA	2.07	0.63
2:D:2099:LEU:HB3	2:D:2204:PHE:CZ	2.32	0.63
2:D:2206:ARG:NH1	2:D:2217:VAL:HA	2.14	0.63
2:D:2568:HIS:HD2	2:D:2708:TRP:CH2	2.16	0.63
2:D:2974:HIS:NE2	3:D:9008:CUO:O2	2.31	0.63
2:D:3016:ASN:O	2:D:3018:PRO:HD3	1.98	0.63
1:A:19:LEU:HB2	1:A:85:ARG:CZ	2.28	0.63
1:A:273:LEU:HD22	1:A:275:TYR:CE2	2.27	0.63
1:A:408:GLY:N	1:A:653:PRO:CG	2.60	0.63
1:A:930:TRP:CZ2	1:A:991:ILE:HD13	2.34	0.63
2:B:2152:LEU:HD23	2:B:2329:PHE:CD2	2.33	0.63
2:B:2195:TRP:CA	2:D:1921:PRO:C	2.71	0.63
2:B:2240:ALA:HA	2:B:2259:MET:HE2	1.79	0.63
2:B:2244:LEU:CD1	2:B:2304:LEU:HD22	2.29	0.63
2:B:3144:PHE:HA	2:B:3149:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:468:CYS:HB3	1:C:477:TYR:CE1	2.34	0.63
1:C:1472:ARG:O	1:C:1473:LYS:HG2	1.98	0.63
2:D:2112:ALA:O	2:D:2117:ALA:HB3	1.99	0.63
2:D:2305:GLN:OE1	2:D:2308:ARG:HD2	1.99	0.63
2:D:2542:HIS:CB	2:D:2692:THR:HB	2.28	0.63
2:D:3291:ILE:HD11	2:D:3314:LEU:CD1	2.28	0.63
1:A:1491:GLN:HE22	1:A:1495:LYS:HE2	1.62	0.63
1:A:1609:LYS:HD3	1:A:1609:LYS:C	2.23	0.63
2:B:1695:SER:CB	2:D:2195:TRP:CD1	2.81	0.63
2:B:1770:LEU:HD12	2:B:1770:LEU:N	2.12	0.63
2:B:1849:GLY:O	2:B:1852:THR:HG22	1.97	0.63
2:B:2083:LYS:HZ3	2:B:2158:GLU:HB3	1.63	0.63
2:B:2207:GLY:O	2:B:2216:THR:HG23	1.97	0.63
2:B:2224:LEU:HD13	2:B:2266:LEU:HD21	1.80	0.63
2:B:2670:HIS:HD1	2:B:2704:THR:CG2	2.09	0.63
1:C:151:GLN:HE21	1:C:283:ASN:HB3	1.63	0.63
1:C:433:ARG:O	1:C:436:VAL:HG12	1.98	0.63
1:C:748:LYS:HB2	1:C:754:GLN:HE21	1.63	0.63
1:C:1091:ASN:HB3	1:C:1097:LYS:HE3	1.79	0.63
1:C:1316:PHE:HD2	1:C:1317:PRO:HD3	1.64	0.63
1:C:1379:ILE:HD11	1:C:1381:HIS:CE1	2.33	0.63
2:D:2446:ILE:HG21	2:D:2452:PHE:CE1	2.32	0.63
2:D:3104:ILE:HG13	2:D:3105:HIS:N	2.12	0.63
1:A:257:LEU:HD11	1:A:261:HIS:HE1	1.64	0.63
1:A:446:PHE:HB2	1:A:505:ARG:CD	2.28	0.63
1:A:1158:LYS:HD3	1:A:1173:GLU:OE2	1.98	0.63
1:A:1404:VAL:HA	1:A:1423:LEU:CD2	2.29	0.63
2:B:2178:PRO:CB	2:B:2226:HIS:HB2	2.29	0.63
2:B:2714:LEU:HD23	2:B:2778:ILE:CG2	2.16	0.63
2:B:2777:THR:CG2	2:B:2780:LYS:H	2.11	0.63
2:B:2971:PRO:HB3	2:B:3071:TYR:CE2	2.33	0.63
1:C:267:LEU:O	1:C:267:LEU:HD13	1.98	0.63
1:C:804:GLU:HG2	1:C:806:ASP:H	1.64	0.63
2:D:1793:ILE:HD13	2:D:1867:TYR:CD1	2.33	0.63
2:D:1991:GLN:CG	2:D:2001:ASP:HA	2.07	0.63
2:D:3362:GLU:HG3	2:D:3376:MET:HG2	1.81	0.63
1:A:560:ARG:CG	1:A:609:THR:O	2.47	0.63
1:A:582:ILE:CG2	1:A:586:PHE:HE1	2.12	0.63
1:A:853:LEU:HD23	1:A:921:TYR:CG	2.33	0.63
1:A:1205:HIS:CD2	1:A:1207:GLU:HG2	2.34	0.63
2:B:1990:PHE:CD2	2:B:2002:ALA:HB3	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2206:ARG:NH1	2:B:2217:VAL:HA	2.14	0.63
2:B:2345:PRO:HA	2:B:2348:VAL:CG1	2.26	0.63
2:B:3264:THR:H	2:B:3267:HIS:CE1	2.17	0.63
1:C:408:GLY:O	1:C:653:PRO:CG	2.47	0.63
1:C:424:VAL:O	1:C:509:ILE:HG23	1.98	0.63
1:C:578:LEU:HD13	1:C:581:GLN:HE22	1.64	0.63
1:C:1141:ARG:HD2	1:C:1143:PHE:HZ	1.62	0.63
1:C:1158:LYS:HD3	1:C:1173:GLU:OE2	1.98	0.63
1:C:1293:HIS:CE1	1:C:1451:PHE:CE2	2.87	0.63
1:C:1618:LEU:CD2	1:C:1648:PHE:HB2	2.28	0.63
2:D:2278:LEU:HD22	2:D:2421:GLY:H	1.63	0.63
2:D:2568:HIS:HD2	2:D:2708:TRP:HH2	1.46	0.63
2:D:3042:GLN:CD	2:D:3049:SER:HB3	2.24	0.63
2:D:3076:ASN:CB	2:D:3236:LEU:HD13	2.28	0.63
1:A:123:TRP:CH2	1:A:208:LEU:HD21	2.33	0.63
1:A:267:LEU:O	1:A:267:LEU:HD13	1.98	0.63
1:A:412:PRO:HG3	1:A:654:TYR:CB	2.26	0.63
1:A:549:ILE:HD12	1:A:552:GLU:OE2	1.99	0.63
1:A:697:VAL:HG23	1:A:698:LEU:N	2.14	0.63
1:A:1100:SER:O	1:A:1102:PRO:HD3	1.99	0.63
2:B:1696:ASP:O	2:B:1701:ILE:HD11	1.98	0.63
2:B:2503:GLY:HA3	2:B:2588:VAL:CB	2.29	0.63
2:B:2604:THR:C	2:B:2607:THR:HG22	2.24	0.63
2:B:2797:ALA:HB1	2:B:2842:LEU:HB3	1.80	0.63
2:B:2893:LYS:HD3	2:B:2896:GLU:OE1	1.99	0.63
2:B:3036:ASN:HB3	2:B:3081:LEU:HD12	1.80	0.63
2:B:3308:ILE:CA	2:B:3329:MET:HB2	2.23	0.63
1:C:549:ILE:HD13	1:C:622:TYR:CD1	2.34	0.63
1:C:560:ARG:HD3	1:C:610:GLY:N	2.07	0.63
1:C:582:ILE:CG2	1:C:586:PHE:HE1	2.12	0.63
1:C:615:PHE:HD1	1:C:622:TYR:CE1	2.17	0.63
1:C:895:VAL:HG12	1:C:904:TRP:HB3	1.80	0.63
1:C:1239:ARG:HG3	1:C:1241:GLY:O	1.98	0.63
1:C:1274:ARG:HG3	1:C:1275:ALA:N	2.14	0.63
2:D:2627:THR:HG23	2:D:2681:THR:HG23	1.78	0.63
2:D:2732:MET:HE2	2:D:2759:PHE:HE2	1.62	0.63
2:D:2760:GLU:HB3	2:D:2763:ARG:CD	2.28	0.63
2:D:3264:THR:H	2:D:3267:HIS:CE1	2.17	0.63
1:A:164:GLU:HA	1:A:294:LEU:HD13	1.81	0.62
1:A:197:LEU:HD23	1:A:344:LEU:CD1	2.29	0.62
1:A:241:LEU:HD11	1:A:265:ALA:HA	1.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:311:GLY:HA3	1:A:352:TRP:CH2	2.34	0.62
1:A:481:VAL:CG2	1:A:487:PHE:HA	2.25	0.62
2:B:1793:ILE:HD13	2:B:1867:TYR:CD1	2.33	0.62
2:B:1973:VAL:HG23	2:B:2026:ILE:CG1	2.19	0.62
2:B:3054:LEU:HB2	2:B:3074:LEU:CD2	2.15	0.62
2:D:1759:TRP:CD1	2:D:1850:VAL:HG12	2.34	0.62
2:D:1987:THR:HG22	2:D:2048:THR:CG2	2.29	0.62
2:D:2300:VAL:HG13	2:D:2368:LEU:HD21	1.81	0.62
2:D:2959:LYS:O	2:D:2960:TYR:HB2	1.99	0.62
2:D:3187:LEU:HD12	2:D:3190:VAL:HG11	1.80	0.62
1:A:156:MET:O	1:A:159:VAL:HG22	1.99	0.62
1:A:446:PHE:CE2	1:A:455:TYR:HD1	2.17	0.62
2:B:1914:LYS:CG	2:B:1918:PHE:HE1	2.13	0.62
2:B:2099:LEU:HB3	2:B:2204:PHE:CZ	2.32	0.62
2:B:2318:ALA:O	2:B:2322:MET:HG2	1.99	0.62
2:B:2772:ARG:HG2	2:B:2777:THR:HA	1.79	0.62
2:B:2822:PHE:HE2	2:B:2825:THR:HG23	1.62	0.62
2:B:3001:GLN:HA	2:B:3180:HIS:CE1	2.34	0.62
1:C:257:LEU:HD11	1:C:261:HIS:HE1	1.63	0.62
1:C:311:GLY:HA3	1:C:352:TRP:CH2	2.34	0.62
1:C:412:PRO:HG3	1:C:654:TYR:CB	2.26	0.62
1:C:1262:ILE:HG22	1:C:1341:PRO:HB2	1.80	0.62
1:C:1295:SER:HA	1:C:1296:PRO:C	2.24	0.62
1:C:1325:VAL:CG1	1:C:1515:TYR:CE1	2.79	0.62
1:C:1401:TYR:CE2	1:C:1405:LEU:HD22	2.33	0.62
2:D:1757:TRP:HZ3	2:D:1873:LEU:HD21	1.62	0.62
2:D:2140:ILE:HG23	2:D:2146:PHE:CA	2.28	0.62
2:D:2173:TRP:CZ2	2:D:2179:ILE:HD12	2.33	0.62
1:A:315:SER:O	1:A:386:VAL:HG23	2.00	0.62
1:A:407:LYS:HA	1:A:653:PRO:HD2	1.81	0.62
1:A:493:LEU:HD13	1:A:670:PHE:CD2	2.34	0.62
1:A:596:VAL:HG22	1:A:773:PHE:CD1	2.34	0.62
1:A:895:VAL:HG12	1:A:904:TRP:HB3	1.80	0.62
1:A:1013:ILE:HG12	1:A:1191:PHE:CE1	2.33	0.62
2:B:1683:VAL:HG23	2:B:1787:PRO:CD	2.29	0.62
2:B:1686:LEU:CD1	2:B:1689:MET:HE2	2.26	0.62
2:B:1955:TRP:HB2	2:B:1960:ILE:HD11	1.81	0.62
2:B:2103:LEU:HD23	2:B:2106:LEU:HD12	1.80	0.62
2:B:2321:LEU:HD22	2:B:2321:LEU:N	2.13	0.62
2:B:2350:LYS:HG3	2:B:2352:GLU:OE1	1.98	0.62
2:B:2761:TYR:O	2:B:2764:PHE:HB2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:LEU:HB2	1:C:85:ARG:CZ	2.28	0.62
1:C:20:GLN:HA	1:C:122:TYR:CZ	2.32	0.62
1:C:170:LYS:O	1:C:173:ILE:HG12	1.98	0.62
1:C:241:LEU:HD11	1:C:265:ALA:N	2.13	0.62
1:C:407:LYS:HA	1:C:653:PRO:HD2	1.81	0.62
1:C:1205:HIS:CD2	1:C:1207:GLU:HG2	2.34	0.62
1:C:1484:GLN:HE21	2:D:2065:ILE:HD13	1.60	0.62
2:D:1714:PRO:CB	2:D:1922:TYR:CZ	2.81	0.62
2:D:2040:ILE:HG13	2:D:2040:ILE:O	1.98	0.62
2:D:2093:GLU:HA	2:D:2096:ILE:HG22	1.81	0.62
2:D:2209:VAL:HG23	2:D:2283:TYR:CE2	2.33	0.62
2:D:2388:PHE:HB2	2:D:2433:PHE:HB3	1.80	0.62
2:D:2461:LYS:HG3	2:D:2461:LYS:O	1.98	0.62
2:D:2714:LEU:HD23	2:D:2778:ILE:CG2	2.16	0.62
1:A:164:GLU:CA	1:A:294:LEU:HD13	2.29	0.62
1:A:1240:ILE:HG13	1:A:1240:ILE:O	1.98	0.62
1:A:1262:ILE:HG22	1:A:1341:PRO:HB2	1.80	0.62
1:A:1293:HIS:CE1	1:A:1451:PHE:CE2	2.87	0.62
2:B:1722:CYS:SG	2:B:1915:PRO:HD3	2.40	0.62
2:B:2568:HIS:HD2	2:B:2708:TRP:HH2	1.45	0.62
2:B:2794:THR:HG21	2:B:2851:LEU:HD22	1.81	0.62
1:C:156:MET:O	1:C:159:VAL:HG22	1.99	0.62
1:C:582:ILE:HG22	1:C:586:PHE:CE1	2.33	0.62
1:C:697:VAL:HG23	1:C:698:LEU:N	2.14	0.62
1:C:903:HIS:HD2	1:C:1053:TRP:CH2	2.17	0.62
1:C:930:TRP:CZ2	1:C:991:ILE:HD13	2.34	0.62
2:D:2100:LYS:CE	2:D:2203:PRO:HD3	2.30	0.62
2:D:2103:LEU:CD2	2:D:2106:LEU:HD12	2.30	0.62
2:D:2124:LEU:HD12	2:D:2212:HIS:CE1	2.35	0.62
2:D:2321:LEU:HD22	2:D:2321:LEU:N	2.13	0.62
2:D:2604:THR:C	2:D:2607:THR:HG22	2.24	0.62
2:D:2665:GLN:NE2	2:D:2844:ARG:H	1.93	0.62
1:A:151:GLN:HE21	1:A:283:ASN:HB3	1.63	0.62
2:B:2101:TYR:HB3	2:D:1693:HIS:CD2	2.35	0.62
2:B:2157:PHE:HB2	2:B:2288:PHE:HE2	1.63	0.62
2:B:2168:VAL:HG22	2:B:2169:ALA:N	2.14	0.62
2:B:2197:ASN:OD1	2:D:1921:PRO:HG2	1.99	0.62
2:B:2236:LEU:HD13	2:B:2236:LEU:O	2.00	0.62
2:B:3074:LEU:C	2:B:3074:LEU:HD13	2.24	0.62
2:B:3274:LEU:CD1	2:B:3276:LYS:HE3	2.29	0.62
2:B:3326:ILE:O	2:B:3367:TYR:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:44:ALA:HA	1:C:45:PRO:C	2.24	0.62
1:C:549:ILE:HD12	1:C:552:GLU:OE2	1.99	0.62
1:C:1379:ILE:HD12	1:C:1447:PHE:CE2	2.35	0.62
1:C:1606:ASP:OD1	1:C:1608:THR:HG23	1.98	0.62
1:C:1659:ASP:OD2	2:D:1939:ASP:HB2	1.99	0.62
2:D:1686:LEU:CD1	2:D:1689:MET:HE2	2.26	0.62
2:D:2714:LEU:HD11	2:D:2781:LEU:HD23	1.82	0.62
2:D:2795:PHE:CD1	2:D:2846:ASP:HA	2.35	0.62
1:A:717:LYS:NZ	1:A:831:LYS:HE3	2.15	0.62
1:A:724:GLN:NE2	1:A:828:LYS:CG	2.63	0.62
1:A:748:LYS:HD3	1:A:754:GLN:HE21	1.65	0.62
1:A:903:HIS:HD2	1:A:1053:TRP:CH2	2.17	0.62
1:A:1078:ARG:HB3	2:B:2457:PRO:CD	2.18	0.62
1:A:1365:ARG:HG3	1:A:1366:GLN:OE1	1.96	0.62
1:A:1401:TYR:CE2	1:A:1405:LEU:HD22	2.33	0.62
2:B:1759:TRP:CD1	2:B:1850:VAL:HG12	2.34	0.62
2:B:2244:LEU:HD11	2:B:2304:LEU:CD2	2.27	0.62
2:B:2795:PHE:CD1	2:B:2846:ASP:HA	2.35	0.62
2:B:3200:VAL:O	2:B:3254:ILE:HD13	1.98	0.62
2:B:3370:GLU:HB3	2:B:3374:TYR:OH	2.00	0.62
1:C:446:PHE:CE2	1:C:455:TYR:HD1	2.17	0.62
2:D:1722:CYS:SG	2:D:1915:PRO:HD3	2.40	0.62
2:D:1735:ARG:HH12	2:D:1889:GLN:HE22	1.45	0.62
2:D:1990:PHE:CD2	2:D:2002:ALA:HB3	2.34	0.62
2:D:2091:LEU:HD22	2:D:2095:ASP:OD1	1.99	0.62
2:D:2103:LEU:HD23	2:D:2106:LEU:HD12	1.80	0.62
2:D:2178:PRO:CB	2:D:2226:HIS:HB2	2.29	0.62
2:D:2209:VAL:HG21	2:D:2212:HIS:ND1	2.14	0.62
2:D:2224:LEU:HD13	2:D:2266:LEU:HD21	1.80	0.62
2:D:3216:LYS:HE2	2:D:3229:TYR:HD2	1.59	0.62
2:D:3322:ARG:CG	2:D:3371:SER:HB3	2.30	0.62
1:A:312:PHE:CD1	1:A:351:LYS:HD3	2.35	0.62
1:A:433:ARG:O	1:A:436:VAL:HG12	1.98	0.62
1:A:452:VAL:HG12	1:A:1365:ARG:CG	2.30	0.62
1:A:452:VAL:CG1	1:A:1365:ARG:HD2	2.30	0.62
1:A:698:LEU:HD12	1:A:700:TYR:HD1	1.61	0.62
1:A:724:GLN:CD	1:A:828:LYS:HE2	2.22	0.62
1:A:1303:GLY:O	1:A:1305:PRO:HD3	1.99	0.62
1:A:1467:ASP:CB	1:A:1470:ARG:NH1	2.63	0.62
1:A:1614:ASN:OD1	1:A:1616:VAL:HG22	2.00	0.62
2:B:1735:ARG:HH12	2:B:1889:GLN:HE22	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1991:GLN:HG2	2:B:2001:ASP:CA	2.07	0.62
2:B:2508:ILE:CD1	2:B:2699:LEU:HD13	2.30	0.62
2:B:2959:LYS:O	2:B:2960:TYR:HB2	1.99	0.62
2:B:3042:GLN:CD	2:B:3049:SER:HB3	2.24	0.62
1:C:322:VAL:HG23	1:C:379:VAL:HG12	1.82	0.62
1:C:366:VAL:HA	1:C:369:MET:CE	2.22	0.62
1:C:620:LEU:HD23	1:C:620:LEU:O	2.00	0.62
1:C:891:PHE:HB3	1:C:1183:MET:CG	2.30	0.62
1:C:1158:LYS:HA	1:C:1173:GLU:HG2	1.82	0.62
1:C:1303:GLY:O	1:C:1305:PRO:HD3	1.99	0.62
2:D:1874:PHE:CZ	2:D:1878:HIS:NE2	2.68	0.62
2:D:2236:LEU:O	2:D:2236:LEU:HD13	2.00	0.62
2:D:2318:ALA:O	2:D:2322:MET:HG2	1.99	0.62
2:D:3115:ILE:O	2:D:3119:LEU:HB2	2.00	0.62
2:D:3274:LEU:CD1	2:D:3276:LYS:HE3	2.29	0.62
1:A:78:ARG:HA	1:A:81:GLN:OE1	1.99	0.62
1:A:234:MET:HB2	1:A:268:PHE:CZ	2.34	0.62
1:A:366:VAL:HA	1:A:369:MET:CE	2.22	0.62
1:A:499:GLU:HA	1:A:502:LEU:HD13	1.81	0.62
1:A:615:PHE:HD1	1:A:622:TYR:CE1	2.17	0.62
1:A:1161:ILE:CD1	1:A:1198:LYS:CE	2.57	0.62
1:A:1274:ARG:HG3	1:A:1275:ALA:N	2.14	0.62
2:B:1695:SER:HA	2:D:2195:TRP:HD1	1.65	0.62
2:B:2300:VAL:HG13	2:B:2368:LEU:HD21	1.81	0.62
2:B:2500:ALA:CB	2:B:3131:SER:CA	2.72	0.62
1:C:468:CYS:CB	1:C:479:CYS:HA	2.29	0.62
1:C:596:VAL:HG22	1:C:773:PHE:CD1	2.34	0.62
1:C:724:GLN:NE2	1:C:828:LYS:CG	2.63	0.62
1:C:1141:ARG:HD2	1:C:1143:PHE:CZ	2.35	0.62
2:D:1736:LEU:O	2:D:1739:VAL:HG22	1.99	0.62
2:D:2168:VAL:HG22	2:D:2169:ALA:N	2.14	0.62
2:D:2508:ILE:CD1	2:D:2699:LEU:HD13	2.30	0.62
2:D:3036:ASN:HB3	2:D:3081:LEU:HD12	1.80	0.62
1:A:44:ALA:HA	1:A:45:PRO:C	2.24	0.62
1:A:469:PRO:O	1:A:470:ARG:HG2	2.00	0.62
1:A:891:PHE:HB3	1:A:1183:MET:CG	2.30	0.62
1:A:1158:LYS:HA	1:A:1173:GLU:HG2	1.82	0.62
1:A:1515:TYR:CE2	1:A:1521:TYR:N	2.67	0.62
2:B:2091:LEU:HD22	2:B:2095:ASP:OD1	1.99	0.62
2:B:2112:ALA:O	2:B:2117:ALA:HB3	1.99	0.62
2:B:2653:ALA:O	2:B:2662:PHE:HD1	1.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2862:PHE:HE1	2:B:2864:PHE:CZ	2.18	0.62
1:C:560:ARG:CG	1:C:609:THR:O	2.47	0.62
1:C:853:LEU:HD23	1:C:921:TYR:CD1	2.35	0.62
1:C:1075:THR:O	2:D:2456:GLU:HG2	1.99	0.62
1:C:1560:THR:HG22	1:C:1561:SER:N	2.14	0.62
2:D:1683:VAL:HG23	2:D:1787:PRO:CD	2.29	0.62
2:D:1955:TRP:HB2	2:D:1960:ILE:HD11	1.81	0.62
2:D:2653:ALA:O	2:D:2662:PHE:HD1	1.83	0.62
2:D:2654:LEU:HD13	2:D:2781:LEU:HD21	1.80	0.62
2:D:3056:LEU:CD1	2:D:3191:LEU:HD23	2.30	0.62
1:A:322:VAL:HG23	1:A:379:VAL:HG12	1.82	0.62
1:A:431:LEU:HD11	1:A:512:PRO:HG3	1.82	0.62
1:A:620:LEU:HD23	1:A:620:LEU:O	2.00	0.62
1:A:1141:ARG:HD2	1:A:1143:PHE:CZ	2.35	0.62
1:A:1192:LYS:CE	1:A:1235:ILE:HD12	2.29	0.62
2:B:1736:LEU:O	2:B:1739:VAL:HG22	1.99	0.62
2:B:2103:LEU:CD2	2:B:2106:LEU:HD12	2.30	0.62
2:B:2124:LEU:HD12	2:B:2212:HIS:CE1	2.35	0.62
2:B:2209:VAL:HG21	2:B:2212:HIS:ND1	2.14	0.62
2:B:2305:GLN:OE1	2:B:2308:ARG:HD2	1.98	0.62
2:B:2461:LYS:HG3	2:B:2461:LYS:O	1.98	0.62
2:B:2511:LEU:HD22	2:B:2516:VAL:HG12	1.82	0.62
2:B:2622:LEU:HD12	2:B:2624:VAL:HB	1.82	0.62
2:B:3204:PHE:HB3	2:B:3206:LEU:HD21	1.82	0.62
1:C:12:THR:HG22	1:C:13:GLN:N	2.15	0.62
1:C:452:VAL:HG12	1:C:1365:ARG:CG	2.30	0.62
1:C:724:GLN:CD	1:C:828:LYS:HE2	2.22	0.62
1:C:1467:ASP:CB	1:C:1470:ARG:NH1	2.63	0.62
2:D:1910:LYS:HE2	2:D:1933:LYS:HE2	1.82	0.62
2:D:1955:TRP:HB2	2:D:1960:ILE:CD1	2.30	0.62
2:D:2538:ILE:HG13	2:D:2539:ALA:N	2.15	0.62
2:D:2797:ALA:HB1	2:D:2842:LEU:HB3	1.80	0.62
1:A:468:CYS:CB	1:A:479:CYS:HA	2.28	0.61
1:A:1379:ILE:HD12	1:A:1447:PHE:CE2	2.35	0.61
2:B:1695:SER:CA	2:D:2195:TRP:CD1	2.82	0.61
2:B:1910:LYS:HE2	2:B:1933:LYS:HE2	1.82	0.61
2:B:2256:PHE:HA	2:B:2259:MET:HE3	1.82	0.61
2:B:2714:LEU:HD11	2:B:2781:LEU:HD23	1.82	0.61
1:C:310:LYS:NZ	1:C:351:LYS:HE2	2.16	0.61
1:C:407:LYS:HE3	1:C:652:LYS:CD	2.30	0.61
1:C:462:HIS:CE1	1:C:629:PHE:CE1	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:989:THR:HG22	1:C:991:ILE:HG22	1.81	0.61
1:C:1100:SER:O	1:C:1102:PRO:HD3	1.99	0.61
1:C:1618:LEU:HD21	2:D:1906:VAL:HG11	1.82	0.61
2:D:2622:LEU:HD12	2:D:2624:VAL:HB	1.82	0.61
2:D:2862:PHE:HE1	2:D:2864:PHE:CZ	2.18	0.61
2:D:3120:GLN:O	2:D:3123:ARG:HB2	2.00	0.61
2:D:3370:GLU:HB3	2:D:3374:TYR:OH	2.00	0.61
1:A:219:ILE:HG22	1:A:223:LEU:CD2	2.30	0.61
1:A:285:MET:HE3	1:A:290:LEU:HD21	1.82	0.61
1:A:408:GLY:O	1:A:653:PRO:CG	2.47	0.61
1:A:872:LEU:HA	1:A:875:PHE:CE1	2.35	0.61
1:A:1171:ALA:HA	1:A:1198:LYS:HD3	1.82	0.61
1:A:1380:THR:HG23	1:A:1381:HIS:N	2.15	0.61
2:B:1850:VAL:HG21	2:B:1877:HIS:CD2	2.35	0.61
2:B:1955:TRP:HB2	2:B:1960:ILE:CD1	2.30	0.61
2:B:2122:HIS:HB3	2:B:2282:SER:HB3	1.81	0.61
2:B:2792:ASP:HB3	2:B:2888:HIS:HE1	1.64	0.61
2:B:3056:LEU:CD1	2:B:3191:LEU:HD23	2.30	0.61
2:B:3078:VAL:O	2:B:3082:ILE:HD13	2.00	0.61
2:B:3362:GLU:HG3	2:B:3376:MET:HG2	1.81	0.61
1:C:78:ARG:HA	1:C:81:GLN:OE1	1.99	0.61
1:C:164:GLU:CA	1:C:294:LEU:HD13	2.29	0.61
1:C:729:TYR:HB2	1:C:821:ILE:CD1	2.30	0.61
1:C:748:LYS:HD3	1:C:754:GLN:HE21	1.65	0.61
1:C:749:THR:HG22	1:C:753:VAL:N	2.14	0.61
1:C:1226:LYS:HA	1:C:1226:LYS:CE	2.21	0.61
2:D:2246:GLN:OE1	2:D:2251:ASP:HB3	2.01	0.61
2:D:2794:THR:HG21	2:D:2851:LEU:HD22	1.81	0.61
2:D:3204:PHE:HB3	2:D:3206:LEU:HD21	1.82	0.61
2:D:3361:PHE:O	2:D:3366:MET:HE1	2.00	0.61
1:A:804:GLU:HG2	1:A:806:ASP:H	1.64	0.61
1:A:1460:ARG:O	1:A:1464:ILE:HG12	2.01	0.61
1:A:1560:THR:HG22	1:A:1561:SER:N	2.14	0.61
1:A:1566:VAL:HG21	1:A:1626:ILE:HG22	1.82	0.61
1:A:1567:PHE:CD2	1:A:1580:SER:HB3	2.35	0.61
2:B:2228:THR:HG23	2:B:2231:GLY:CA	2.31	0.61
2:B:2246:GLN:OE1	2:B:2251:ASP:HB3	2.01	0.61
2:B:2404:CYS:HA	2:B:2410:CYS:HA	1.82	0.61
2:B:2741:ASP:HB3	2:B:2743:ILE:HG22	1.81	0.61
2:B:3115:ILE:O	2:B:3119:LEU:HB2	1.99	0.61
2:B:3291:ILE:HD11	2:B:3314:LEU:CD1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3291:ILE:HG23	2:B:3307:PRO:HA	1.83	0.61
1:C:219:ILE:HG22	1:C:223:LEU:CD2	2.30	0.61
1:C:493:LEU:HD13	1:C:670:PHE:CD2	2.34	0.61
2:D:1668:ARG:HD2	2:D:1754:LEU:O	2.00	0.61
2:D:1914:LYS:CG	2:D:1918:PHE:HE1	2.13	0.61
2:D:1914:LYS:HG2	2:D:1918:PHE:CE1	2.35	0.61
2:D:2256:PHE:HA	2:D:2259:MET:HE3	1.82	0.61
2:D:3078:VAL:HG12	2:D:3082:ILE:HD13	1.82	0.61
1:A:468:CYS:HB2	1:A:479:CYS:HA	1.82	0.61
1:A:647:GLN:HE22	1:A:650:ARG:NH2	1.98	0.61
1:A:647:GLN:OE1	1:A:652:LYS:HD3	2.01	0.61
1:A:720:HIS:CD2	1:A:829:PHE:HB2	2.36	0.61
1:A:964:ILE:HG12	1:A:1038:PHE:CE1	2.35	0.61
2:B:1668:ARG:HD2	2:B:1754:LEU:O	2.00	0.61
2:B:1778:PRO:HB2	2:D:1817:LYS:CD	2.29	0.61
2:B:1862:ILE:HD11	2:B:1871:ASP:HB3	1.81	0.61
2:B:1987:THR:HG22	2:B:2048:THR:CG2	2.29	0.61
2:B:2093:GLU:HA	2:B:2096:ILE:HG22	1.81	0.61
2:B:2100:LYS:CE	2:B:2203:PRO:HD3	2.30	0.61
2:B:2106:LEU:HD23	2:B:2164:HIS:ND1	2.15	0.61
2:B:2149:TRP:HD1	2:B:2326:MET:HG3	1.65	0.61
2:B:2388:PHE:O	2:B:2432:LEU:HD12	2.00	0.61
2:B:2741:ASP:CG	2:B:2743:ILE:HG22	2.25	0.61
1:C:605:ILE:HG13	1:C:632:HIS:CE1	2.35	0.61
1:C:1006:ASP:O	1:C:1009:ILE:HG22	2.00	0.61
2:D:1798:GLU:HG3	2:D:1800:VAL:HG12	1.82	0.61
2:D:2254:VAL:CG1	2:D:2433:PHE:HD1	2.03	0.61
2:D:2307:LYS:HE2	2:D:2369:HIS:ND1	2.16	0.61
1:A:1171:ALA:HA	1:A:1198:LYS:CE	2.30	0.61
1:A:1566:VAL:HG22	1:A:1626:ILE:HG22	1.80	0.61
2:B:2254:VAL:CG1	2:B:2433:PHE:HD1	2.03	0.61
2:B:3361:PHE:O	2:B:3366:MET:HE1	2.01	0.61
1:C:312:PHE:CD1	1:C:351:LYS:HD3	2.35	0.61
1:C:452:VAL:CG1	1:C:1365:ARG:HD2	2.30	0.61
1:C:1078:ARG:CG	2:D:2457:PRO:HD3	2.30	0.61
1:C:1145:GLY:HA3	1:C:1190:VAL:HG11	1.80	0.61
1:C:1539:MET:HE3	1:C:1539:MET:CA	2.30	0.61
1:C:1566:VAL:HG21	1:C:1626:ILE:HG22	1.82	0.61
1:C:1567:PHE:CD2	1:C:1580:SER:HB3	2.35	0.61
1:C:1614:ASN:OD1	1:C:1616:VAL:HG22	2.00	0.61
2:D:2404:CYS:HA	2:D:2410:CYS:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2538:ILE:HD12	2:D:2577:MET:CE	1.81	0.61
2:D:3078:VAL:O	2:D:3082:ILE:HD13	2.00	0.61
2:D:3223:THR:HG23	2:D:3224:ASP:N	2.12	0.61
1:A:484:MET:CB	1:A:486:ILE:HG22	2.30	0.61
1:A:605:ILE:HG13	1:A:632:HIS:CE1	2.35	0.61
2:B:3255:THR:O	2:B:3258:VAL:HG22	2.00	0.61
1:C:85:ARG:HH12	1:C:86:THR:HG22	1.63	0.61
1:C:164:GLU:HA	1:C:294:LEU:HD13	1.81	0.61
1:C:469:PRO:O	1:C:470:ARG:HG2	2.00	0.61
1:C:579:PHE:CD2	1:C:707:PHE:HE2	2.19	0.61
1:C:647:GLN:HE22	1:C:650:ARG:NH2	1.98	0.61
1:C:647:GLN:OE1	1:C:652:LYS:HD3	2.01	0.61
1:C:720:HIS:CD2	1:C:829:PHE:HB2	2.36	0.61
1:C:810:LEU:CD1	1:C:814:LEU:HD13	2.30	0.61
2:D:1718:LYS:HD3	2:D:1720:PHE:CE2	2.36	0.61
2:D:3074:LEU:HD13	2:D:3074:LEU:C	2.24	0.61
1:A:872:LEU:O	1:A:875:PHE:HD1	1.83	0.61
1:A:1006:ASP:O	1:A:1009:ILE:HG22	2.00	0.61
2:B:2026:ILE:HB	2:B:2030:LEU:HD11	1.82	0.61
2:B:2384:VAL:CG1	2:B:2438:THR:HA	2.31	0.61
2:B:2494:HIS:CD2	2:B:3124:VAL:HG13	2.34	0.61
2:B:3120:GLN:O	2:B:3123:ARG:HB2	2.01	0.61
1:C:964:ILE:HG12	1:C:1038:PHE:CE1	2.35	0.61
1:C:1161:ILE:CD1	1:C:1198:LYS:CE	2.57	0.61
1:C:1192:LYS:CE	1:C:1235:ILE:HD12	2.29	0.61
1:C:1228:LEU:HD23	1:C:1229:PHE:N	2.13	0.61
1:C:1460:ARG:O	1:C:1464:ILE:HG12	2.01	0.61
2:D:1767:PRO:O	2:D:1771:THR:HG22	2.00	0.61
1:A:5:ARG:HH12	1:A:73:VAL:HG21	1.65	0.61
1:A:316:ALA:HB1	1:A:383:LEU:HD11	1.83	0.61
1:A:720:HIS:HD2	1:A:829:PHE:HB2	1.65	0.61
1:A:729:TYR:HB2	1:A:821:ILE:CD1	2.30	0.61
2:B:1718:LYS:HD3	2:B:1720:PHE:CE2	2.36	0.61
2:B:1767:PRO:O	2:B:1771:THR:HG22	2.00	0.61
2:B:2099:LEU:CB	2:B:2204:PHE:HZ	2.13	0.61
2:B:2242:LEU:O	2:B:2242:LEU:HD13	2.00	0.61
2:B:2500:ALA:HB1	2:B:3131:SER:OG	2.00	0.61
2:B:2732:MET:HE2	2:B:2759:PHE:HE2	1.62	0.61
1:C:1171:ALA:HA	1:C:1198:LYS:CE	2.30	0.61
1:C:1239:ARG:HH12	1:C:1242:HIS:HE1	1.48	0.61
1:C:1259:ARG:HH22	1:C:1324:VAL:HG11	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1293:HIS:HB3	1:C:1446:ALA:HB2	1.83	0.61
2:D:1874:PHE:CD2	2:D:1878:HIS:CE1	2.82	0.61
2:D:2964:VAL:HG11	2:D:2969:ILE:CG1	2.30	0.61
2:D:3142:HIS:CD2	2:D:3145:ASN:HD21	2.16	0.61
2:D:3275:LYS:HE3	2:D:3282:LEU:HD11	1.82	0.61
1:A:310:LYS:NZ	1:A:351:LYS:HE2	2.15	0.61
1:A:853:LEU:HD23	1:A:921:TYR:CD1	2.35	0.61
2:B:2195:TRP:CB	2:D:1922:TYR:N	2.64	0.61
2:B:2195:TRP:HE3	2:D:1922:TYR:CZ	2.09	0.61
2:B:3274:LEU:HD11	2:B:3276:LYS:HE3	1.83	0.61
2:B:3391:ILE:HD12	2:B:3391:ILE:N	2.16	0.61
1:C:60:HIS:HA	1:C:65:PHE:HD2	1.66	0.61
1:C:273:LEU:N	1:C:273:LEU:HD12	2.16	0.61
1:C:484:MET:CB	1:C:486:ILE:HG22	2.30	0.61
1:C:582:ILE:CG1	1:C:601:THR:HG21	2.31	0.61
1:C:717:LYS:NZ	1:C:831:LYS:HE3	2.15	0.61
1:C:928:TRP:HE3	1:C:1041:LEU:HD11	1.64	0.61
1:C:1436:LYS:HG3	1:C:1437:TYR:CD1	2.36	0.61
2:D:1854:VAL:HG23	2:D:1862:ILE:CB	2.31	0.61
2:D:2122:HIS:HB3	2:D:2282:SER:HB3	1.81	0.61
2:D:2602:LEU:HD13	2:D:2628:ARG:NH1	2.16	0.61
2:D:3001:GLN:HA	2:D:3180:HIS:CE1	2.34	0.61
2:D:3274:LEU:HD11	2:D:3276:LYS:HE3	1.83	0.61
2:D:3291:ILE:HG23	2:D:3307:PRO:HA	1.83	0.61
2:D:3326:ILE:O	2:D:3367:TYR:HA	1.99	0.61
1:A:359:LEU:N	1:A:359:LEU:HD22	2.15	0.61
1:A:710:ILE:HD13	1:A:718:MET:SD	2.40	0.61
1:A:1032:SER:HB3	1:A:1035:TYR:HD2	1.66	0.61
1:A:1249:GLN:HG3	1:A:1476:TYR:HD1	1.57	0.61
1:A:1464:ILE:HA	1:A:1467:ASP:OD1	2.01	0.61
2:B:1695:SER:HB2	2:D:2195:TRP:CD1	2.35	0.61
2:B:2161:LEU:HB3	2:B:2166:SER:HB2	1.83	0.61
2:B:2602:LEU:HD13	2:B:2628:ARG:NH1	2.16	0.61
2:B:3275:LYS:HE3	2:B:3282:LEU:HD11	1.82	0.61
2:B:3322:ARG:CG	2:B:3371:SER:HB3	2.30	0.61
1:C:315:SER:O	1:C:386:VAL:HG23	2.00	0.61
1:C:710:ILE:HD13	1:C:718:MET:SD	2.40	0.61
1:C:743:VAL:HG22	1:C:802:ILE:HG12	1.83	0.61
1:C:1159:PHE:HB3	1:C:1214:TYR:HB3	1.82	0.61
2:D:1707:LEU:HD21	2:D:2012:LYS:CG	2.30	0.61
2:D:2242:LEU:O	2:D:2242:LEU:HD13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2602:LEU:HD13	2:D:2628:ARG:HH11	1.66	0.61
2:D:3308:ILE:CA	2:D:3329:MET:HB2	2.23	0.61
1:A:903:HIS:ND1	1:A:1102:PRO:HB3	2.16	0.60
1:A:1083:PRO:O	1:A:1086:LEU:HD13	2.01	0.60
1:A:1293:HIS:HB3	1:A:1446:ALA:HB2	1.83	0.60
2:B:1974:PHE:CD2	2:B:2025:ASP:HA	2.36	0.60
2:B:2195:TRP:CD1	2:D:1695:SER:CA	2.84	0.60
2:B:3078:VAL:HG12	2:B:3082:ILE:HD13	1.82	0.60
1:C:1604:LYS:HZ2	1:C:1647:LEU:HD23	1.65	0.60
2:D:1695:SER:HB3	2:D:1924:LEU:HD21	1.83	0.60
2:D:1932:SER:O	2:D:1934:PRO:HD3	2.01	0.60
2:D:2688:LEU:HD13	2:D:2829:LEU:HD12	1.83	0.60
2:D:2741:ASP:CG	2:D:2743:ILE:HG22	2.25	0.60
2:D:3066:ASP:OD1	2:D:3248:ARG:HD2	2.00	0.60
2:D:3391:ILE:HD12	2:D:3391:ILE:N	2.16	0.60
1:A:13:GLN:O	1:A:17:LEU:HD13	2.01	0.60
1:A:285:MET:HB2	1:A:290:LEU:CD2	2.31	0.60
1:A:931:THR:HG21	1:A:1121:PHE:HE1	1.67	0.60
1:A:1316:PHE:HD2	1:A:1317:PRO:HD3	1.64	0.60
2:B:1675:ASP:HB2	2:B:1678:GLN:HG3	1.83	0.60
2:B:1707:LEU:HD21	2:B:2012:LYS:CG	2.30	0.60
2:B:1757:TRP:HZ3	2:B:1873:LEU:HD21	1.65	0.60
2:B:2148:HIS:CB	2:B:2345:PRO:HB3	2.31	0.60
2:B:2688:LEU:HD13	2:B:2829:LEU:HD12	1.83	0.60
2:B:3082:ILE:HB	2:B:3090:MET:CE	2.28	0.60
2:B:3340:LEU:CD2	2:B:3377:THR:HG22	2.32	0.60
2:B:3366:MET:HG2	2:B:3367:TYR:N	2.14	0.60
1:C:316:ALA:HB1	1:C:383:LEU:HD11	1.83	0.60
1:C:385:SER:HB3	1:C:387:ASN:OD1	2.01	0.60
1:C:1278:LEU:HD12	1:C:1278:LEU:C	2.26	0.60
2:D:2124:LEU:HD13	2:D:2125:PRO:HD3	1.80	0.60
2:D:2275:LEU:CD1	2:D:2284:ASP:HB3	2.27	0.60
2:D:2511:LEU:HD22	2:D:2516:VAL:HG12	1.82	0.60
2:D:2908:VAL:HG23	2:D:3173:LYS:O	2.02	0.60
2:D:3219:ILE:CD1	2:D:3271:ARG:HD3	2.31	0.60
1:A:12:THR:HG22	1:A:13:GLN:N	2.15	0.60
1:A:462:HIS:CE1	1:A:629:PHE:CE1	2.88	0.60
1:A:576:THR:HG23	1:A:579:PHE:H	1.64	0.60
1:A:810:LEU:CD1	1:A:814:LEU:HD13	2.30	0.60
1:A:1280:ILE:CD1	1:A:1330:ALA:HB1	2.31	0.60
1:A:1406:TYR:CA	1:A:1543:ARG:HH12	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2091:LEU:HD21	2:B:2171:PRO:HG3	1.84	0.60
2:B:2307:LYS:HE2	2:B:2369:HIS:ND1	2.16	0.60
2:B:2538:ILE:HG13	2:B:2539:ALA:N	2.15	0.60
2:B:2964:VAL:HG11	2:B:2969:ILE:CG1	2.30	0.60
2:B:3136:ILE:HD12	2:D:3345:TYR:OH	2.01	0.60
1:C:906:ARG:HH11	1:C:1108:TYR:HB3	1.67	0.60
1:C:1171:ALA:HA	1:C:1198:LYS:HD3	1.82	0.60
1:C:1325:VAL:HG21	1:C:1519:PHE:HE1	1.66	0.60
1:C:1464:ILE:HA	1:C:1467:ASP:OD1	2.02	0.60
1:C:1567:PHE:CE2	1:C:1580:SER:HB3	2.36	0.60
2:D:1862:ILE:HD11	2:D:1871:ASP:HB3	1.81	0.60
2:D:1974:PHE:CD2	2:D:2025:ASP:HA	2.36	0.60
2:D:2189:LYS:HG3	2:D:2190:GLU:HG3	1.82	0.60
2:D:2228:THR:HG23	2:D:2231:GLY:CA	2.31	0.60
1:A:219:ILE:HG22	1:A:223:LEU:HD23	1.82	0.60
1:A:628:LEU:HA	1:A:631:PHE:HD2	1.64	0.60
1:A:698:LEU:HB3	1:A:700:TYR:CD1	2.37	0.60
1:A:989:THR:HG22	1:A:991:ILE:HG22	1.81	0.60
1:A:1052:ILE:O	1:A:1055:ILE:HG12	2.02	0.60
1:A:1295:SER:HA	1:A:1296:PRO:C	2.24	0.60
2:B:2399:VAL:HG22	2:B:2416:ILE:O	2.02	0.60
1:C:13:GLN:O	1:C:17:LEU:HD13	2.01	0.60
1:C:359:LEU:HD22	1:C:359:LEU:N	2.15	0.60
1:C:462:HIS:ND1	1:C:629:PHE:CZ	2.69	0.60
1:C:872:LEU:HA	1:C:875:PHE:CE1	2.35	0.60
1:C:931:THR:HA	1:C:991:ILE:CG2	2.28	0.60
1:C:1079:GLU:HB2	2:D:2456:GLU:HG3	1.77	0.60
1:C:1464:ILE:CD1	1:C:1526:LEU:HB3	2.31	0.60
2:D:3340:LEU:CD2	2:D:3377:THR:HG22	2.31	0.60
1:A:128:ILE:HG23	1:A:130:PHE:CE1	2.37	0.60
1:A:273:LEU:HD12	1:A:273:LEU:N	2.16	0.60
1:A:407:LYS:HE3	1:A:652:LYS:CD	2.30	0.60
1:A:972:THR:HG22	1:A:973:ARG:N	2.16	0.60
1:A:1159:PHE:HB3	1:A:1214:TYR:HB3	1.82	0.60
1:A:1228:LEU:HD23	1:A:1229:PHE:N	2.13	0.60
2:B:1914:LYS:HG2	2:B:1918:PHE:CE1	2.35	0.60
2:B:2124:LEU:HD13	2:B:2125:PRO:HD3	1.80	0.60
2:B:2127:LYS:HE3	2:B:2333:ILE:HD11	1.83	0.60
2:B:2189:LYS:HG3	2:B:2190:GLU:HG3	1.82	0.60
2:B:2267:VAL:CG2	2:B:2275:LEU:HB2	2.32	0.60
1:C:198:GLU:HG2	1:C:199:TYR:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:HIS:HD2	1:C:829:PHE:HB2	1.65	0.60
1:C:1052:ILE:O	1:C:1055:ILE:HG12	2.02	0.60
1:C:1380:THR:HG23	1:C:1381:HIS:N	2.15	0.60
2:D:1850:VAL:HG21	2:D:1877:HIS:CD2	2.35	0.60
2:D:2026:ILE:HB	2:D:2030:LEU:HD11	1.81	0.60
1:A:385:SER:HB3	1:A:387:ASN:OD1	2.01	0.60
1:A:443:PHE:HD1	1:A:543:PRO:HB3	1.66	0.60
1:A:579:PHE:CD2	1:A:707:PHE:HE2	2.19	0.60
1:A:1139:GLN:OE1	1:A:1139:GLN:HA	2.02	0.60
1:A:1239:ARG:HH12	1:A:1242:HIS:HE1	1.48	0.60
1:A:1436:LYS:HG3	1:A:1437:TYR:CD1	2.36	0.60
2:B:1747:LYS:HZ1	2:D:2094:ARG:CB	2.13	0.60
2:B:1862:ILE:CD1	2:B:1871:ASP:HB3	2.31	0.60
2:B:1927:HIS:O	2:B:1931:PHE:HD2	1.85	0.60
2:B:2397:ALA:HB1	2:B:2465:THR:O	2.01	0.60
1:C:5:ARG:HH12	1:C:73:VAL:HG21	1.65	0.60
1:C:698:LEU:HB3	1:C:700:TYR:CD1	2.37	0.60
1:C:872:LEU:O	1:C:875:PHE:HD1	1.83	0.60
1:C:996:LEU:O	1:C:996:LEU:HD13	2.01	0.60
1:C:1139:GLN:HA	1:C:1139:GLN:OE1	2.02	0.60
1:C:1280:ILE:CD1	1:C:1330:ALA:HB1	2.31	0.60
1:C:1301:LEU:HD23	1:C:1301:LEU:O	2.02	0.60
1:C:1327:VAL:HG11	1:C:1452:PHE:CD1	2.37	0.60
1:C:1442:LEU:HD23	1:C:1589:LEU:CD1	2.32	0.60
2:D:1759:TRP:CD1	2:D:1811:LEU:HD11	2.37	0.60
2:D:1862:ILE:CD1	2:D:1871:ASP:HB3	2.31	0.60
2:D:2384:VAL:CG1	2:D:2438:THR:HA	2.31	0.60
2:D:3209:ILE:H	2:D:3209:ILE:CD1	2.11	0.60
1:A:85:ARG:HH12	1:A:86:THR:HG22	1.63	0.60
1:A:198:GLU:HG2	1:A:199:TYR:CD2	2.36	0.60
1:A:267:LEU:HD13	1:A:267:LEU:C	2.26	0.60
1:A:462:HIS:ND1	1:A:629:PHE:CZ	2.69	0.60
1:A:629:PHE:CD1	1:A:633:HIS:CE1	2.83	0.60
1:A:743:VAL:HG22	1:A:802:ILE:HG12	1.83	0.60
1:A:1010:GLN:HE22	1:A:1192:LYS:H	1.50	0.60
1:A:1259:ARG:NH2	1:A:1324:VAL:HG21	2.17	0.60
1:A:1301:LEU:HD23	1:A:1301:LEU:O	2.02	0.60
1:A:1325:VAL:HG21	1:A:1519:PHE:HE1	1.66	0.60
1:A:1515:TYR:CZ	1:A:1519:PHE:HB2	2.34	0.60
2:B:1798:GLU:HG3	2:B:1800:VAL:HG12	1.82	0.60
2:B:2877:PRO:HB2	2:B:2879:ASP:OD1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:285:MET:HE3	1:C:290:LEU:HD21	1.82	0.60
1:C:749:THR:HG23	1:C:751:ASP:N	2.17	0.60
1:C:1392:ASP:HA	1:C:1394:LEU:HD23	1.84	0.60
1:C:1646:ILE:CG2	2:D:1906:VAL:HG22	2.31	0.60
2:D:2148:HIS:CB	2:D:2345:PRO:HB3	2.31	0.60
2:D:2149:TRP:HD1	2:D:2326:MET:HG3	1.65	0.60
2:D:2185:LEU:HD22	2:D:2185:LEU:N	2.17	0.60
1:A:60:HIS:HA	1:A:65:PHE:HD2	1.66	0.60
1:A:74:VAL:HG21	1:A:273:LEU:CD2	2.18	0.60
1:A:104:LEU:HB3	1:A:123:TRP:CE3	2.37	0.60
1:A:215:ARG:O	1:A:219:ILE:HG13	2.02	0.60
1:A:1542:GLU:HA	1:A:1545:ARG:HD3	1.84	0.60
1:A:1549:VAL:N	1:A:1608:THR:HG22	2.02	0.60
2:B:2343:ALA:O	2:B:2345:PRO:HD3	2.02	0.60
2:B:2624:VAL:HG11	2:B:2683:TYR:CE1	2.36	0.60
2:B:3002:THR:HG21	2:B:3041:GLN:OE1	2.00	0.60
2:B:3066:ASP:OD1	2:B:3248:ARG:HD2	2.01	0.60
2:B:3209:ILE:H	2:B:3209:ILE:CD1	2.11	0.60
1:C:219:ILE:HG22	1:C:223:LEU:HD23	1.82	0.60
1:C:628:LEU:HA	1:C:631:PHE:HD2	1.64	0.60
1:C:688:PRO:HA	1:C:691:ILE:HG13	1.84	0.60
1:C:940:LEU:HD12	1:C:946:TYR:OH	2.02	0.60
1:C:972:THR:HG22	1:C:973:ARG:N	2.17	0.60
1:C:1083:PRO:O	1:C:1086:LEU:HD13	2.01	0.60
1:C:1224:LEU:N	1:C:1224:LEU:HD22	2.17	0.60
1:C:1406:TYR:CA	1:C:1543:ARG:HH12	2.14	0.60
1:C:1515:TYR:CE2	1:C:1521:TYR:N	2.69	0.60
1:C:1542:GLU:OE2	2:D:2501:GLY:CA	2.49	0.60
2:D:2388:PHE:O	2:D:2432:LEU:HD12	2.00	0.60
2:D:2432:LEU:HD21	2:D:2481:THR:CG2	2.32	0.60
2:D:2596:THR:CG2	2:D:2774:HIS:HE1	2.13	0.60
1:A:1464:ILE:CD1	1:A:1526:LEU:HB3	2.31	0.60
1:A:1567:PHE:CE2	1:A:1580:SER:HB3	2.36	0.60
2:B:1695:SER:HB3	2:B:1924:LEU:HD21	1.82	0.60
2:B:1718:LYS:HD3	2:B:1720:PHE:CZ	2.36	0.60
2:B:1730:PHE:HD1	2:B:1731:PRO:HD3	1.67	0.60
2:B:2432:LEU:HD21	2:B:2481:THR:CG2	2.32	0.60
2:B:2539:ALA:HB1	2:B:2692:THR:HG23	1.83	0.60
2:B:2596:THR:CG2	2:B:2774:HIS:HE1	2.13	0.60
2:B:3223:THR:HG23	2:B:3224:ASP:N	2.12	0.60
2:B:3306:ILE:N	2:B:3306:ILE:HD12	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:ARG:O	1:C:84:ARG:HG2	2.01	0.60
1:C:285:MET:HB2	1:C:290:LEU:CD2	2.31	0.60
1:C:698:LEU:CD1	1:C:700:TYR:HB3	2.29	0.60
1:C:989:THR:HG21	1:C:991:ILE:HG22	1.83	0.60
1:C:1345:TRP:CH2	1:C:1430:LEU:HD22	2.37	0.60
2:D:1793:ILE:CG2	2:D:1796:GLU:HB3	2.32	0.60
2:D:1914:LYS:HD3	2:D:1918:PHE:CE1	2.36	0.60
2:D:1927:HIS:O	2:D:1931:PHE:HD2	1.85	0.60
2:D:2065:ILE:HD12	2:D:2065:ILE:N	2.17	0.60
2:D:2127:LYS:HE3	2:D:2333:ILE:HD11	1.83	0.60
2:D:2154:THR:HB	2:D:2288:PHE:CZ	2.37	0.60
2:D:2397:ALA:HB1	2:D:2465:THR:O	2.00	0.60
2:D:2974:HIS:HE1	3:D:9008:CUO:O2	1.79	0.60
2:D:3255:THR:O	2:D:3258:VAL:HG22	2.00	0.60
1:A:464:LEU:HD13	1:A:465:PRO:CG	2.31	0.60
1:A:749:THR:HG22	1:A:753:VAL:N	2.14	0.60
1:A:876:HIS:CE1	1:A:1042:PHE:CE2	2.90	0.60
1:A:940:LEU:HD12	1:A:946:TYR:OH	2.02	0.60
1:A:1147:LEU:HD23	1:A:1148:LEU:N	2.16	0.60
1:A:1327:VAL:HG11	1:A:1452:PHE:CD1	2.37	0.60
1:A:1659:ASP:OD2	2:B:1942:LYS:CE	2.48	0.60
2:B:1817:LYS:HZ2	2:D:1779:GLU:HA	1.67	0.60
2:B:2065:ILE:N	2:B:2065:ILE:HD12	2.17	0.60
2:B:2172:TYR:HB2	2:B:2293:PHE:HB2	1.84	0.60
1:C:177:LEU:HD12	1:C:358:TYR:CZ	2.37	0.60
1:C:238:GLN:HE21	1:C:820:VAL:HG12	1.67	0.60
1:C:267:LEU:HD13	1:C:267:LEU:C	2.26	0.60
1:C:431:LEU:HD11	1:C:512:PRO:HG3	1.82	0.60
1:C:468:CYS:HB2	1:C:479:CYS:HA	1.83	0.60
1:C:1010:GLN:HE22	1:C:1192:LYS:H	1.50	0.60
1:C:1032:SER:HB3	1:C:1035:TYR:HD2	1.66	0.60
1:C:1061:LYS:HE2	1:C:1067:TYR:CE1	2.37	0.60
1:C:1142:PHE:HB3	1:C:1195:ILE:HG23	1.84	0.60
1:C:1316:PHE:CD2	1:C:1317:PRO:HD3	2.37	0.60
1:C:1618:LEU:HD21	1:C:1648:PHE:HB2	1.84	0.60
2:D:1718:LYS:HD3	2:D:1720:PHE:CZ	2.36	0.60
2:D:2106:LEU:HD23	2:D:2164:HIS:ND1	2.16	0.60
2:D:2275:LEU:HD22	2:D:2275:LEU:N	2.16	0.60
2:D:2539:ALA:HB1	2:D:2692:THR:HG23	1.83	0.60
2:D:2624:VAL:HG11	2:D:2683:TYR:CE1	2.36	0.60
2:D:2716:GLU:HG2	2:D:2722:TYR:CD1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:ARG:O	1:A:84:ARG:HG2	2.01	0.59
1:A:128:ILE:HD12	1:A:128:ILE:N	2.17	0.59
1:A:270:TYR:O	1:A:273:LEU:HB2	2.02	0.59
1:A:734:LEU:N	1:A:734:LEU:HD12	2.17	0.59
1:A:1406:TYR:CA	1:A:1543:ARG:HH22	2.14	0.59
1:A:1442:LEU:HD23	1:A:1589:LEU:CD1	2.32	0.59
2:B:2014:MET:SD	2:B:2015:PRO:HD2	2.42	0.59
2:B:2154:THR:HB	2:B:2288:PHE:CZ	2.37	0.59
2:B:2908:VAL:HG23	2:B:3173:LYS:O	2.01	0.59
2:B:2945:PHE:HD2	2:B:3143:PRO:HG2	1.67	0.59
2:B:3302:ASP:O	2:B:3324:THR:HA	2.02	0.59
2:B:3327:MET:CG	2:B:3328:PHE:H	2.15	0.59
1:C:72:TYR:CD2	1:C:76:MET:HE2	2.37	0.59
1:C:286:THR:HG22	1:C:287:PRO:N	2.17	0.59
1:C:734:LEU:HD12	1:C:734:LEU:N	2.17	0.59
1:C:1110:THR:HG23	1:C:1111:ASN:N	2.17	0.59
1:C:1153:LYS:HG2	1:C:1182:GLU:OE2	2.01	0.59
1:C:1188:ASP:OD1	2:D:2389:LEU:HD11	2.01	0.59
1:C:1259:ARG:NH2	1:C:1324:VAL:HG21	2.17	0.59
1:C:1618:LEU:HD11	2:D:1906:VAL:HG11	1.84	0.59
2:D:1784:ILE:HG22	2:D:1785:PRO:N	2.17	0.59
2:D:2091:LEU:HD21	2:D:2171:PRO:HG3	1.84	0.59
2:D:2143:MET:HE3	2:D:2321:LEU:CD1	2.32	0.59
2:D:2670:HIS:HD1	2:D:2704:THR:CG2	2.09	0.59
2:D:2945:PHE:HD2	2:D:3143:PRO:HG2	1.67	0.59
2:D:3378:ALA:CB	2:D:3384:CYS:HA	2.32	0.59
1:A:411:ASP:HB2	1:A:412:PRO:HD3	1.84	0.59
1:A:989:THR:HG22	1:A:990:SER:N	2.17	0.59
1:A:1219:LEU:HD12	1:A:1220:LYS:HG3	1.83	0.59
2:B:2143:MET:HE3	2:B:2321:LEU:CD1	2.32	0.59
2:B:2155:LEU:HD21	2:B:2354:LEU:CD1	2.31	0.59
2:B:2346:ASN:O	2:B:2349:PHE:HD1	1.85	0.59
2:B:2368:LEU:O	2:B:2371:ILE:HG12	2.02	0.59
2:B:2881:ILE:HG22	2:B:2882:LYS:O	2.02	0.59
1:C:203:ASP:HB3	1:C:205:ILE:HG12	1.83	0.59
1:C:513:TYR:CG	1:C:638:ARG:HD3	2.37	0.59
1:C:977:ASN:O	1:C:980:PHE:HD1	1.85	0.59
2:D:1994:ARG:CD	2:D:2035:LEU:HD21	2.32	0.59
2:D:2014:MET:SD	2:D:2015:PRO:HD2	2.42	0.59
2:D:2343:ALA:O	2:D:2345:PRO:HD3	2.02	0.59
2:D:3054:LEU:HB2	2:D:3074:LEU:CD2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3306:ILE:N	2:D:3306:ILE:HD12	2.17	0.59
2:D:3308:ILE:HG12	2:D:3331:VAL:CG1	2.32	0.59
1:A:32:SER:CA	1:A:37:LYS:HG3	2.32	0.59
1:A:462:HIS:HB3	1:A:624:ALA:HB2	1.85	0.59
1:A:933:PRO:HB3	1:A:981:GLU:HA	1.85	0.59
1:A:1013:ILE:HA	1:A:1016:ASN:OD1	2.03	0.59
1:A:1278:LEU:HD12	1:A:1278:LEU:C	2.26	0.59
1:A:1312:GLY:HA3	1:A:1597:PHE:CD2	2.38	0.59
1:A:1316:PHE:CD2	1:A:1317:PRO:HD3	2.37	0.59
2:B:2146:PHE:HD1	2:B:2147:PRO:HD3	1.67	0.59
1:C:104:LEU:HB3	1:C:123:TRP:CE3	2.37	0.59
1:C:486:ILE:CD1	1:C:688:PRO:HG2	2.17	0.59
1:C:493:LEU:HD21	1:C:682:THR:CB	2.31	0.59
1:C:583:LEU:O	1:C:583:LEU:HD23	2.03	0.59
1:C:876:HIS:CE1	1:C:1042:PHE:CE2	2.90	0.59
1:C:903:HIS:ND1	1:C:1102:PRO:HB3	2.16	0.59
2:D:1730:PHE:HD1	2:D:1731:PRO:HD3	1.67	0.59
2:D:2368:LEU:O	2:D:2371:ILE:HG12	2.02	0.59
2:D:3006:LEU:HD21	2:D:3035:VAL:HG11	1.84	0.59
2:D:3187:LEU:HD12	2:D:3190:VAL:CG1	2.32	0.59
2:D:3287:LEU:HB2	2:D:3288:PRO:C	2.28	0.59
2:D:3338:PRO:HB2	2:D:3379:SER:OG	2.03	0.59
1:A:203:ASP:HB3	1:A:205:ILE:HG12	1.83	0.59
1:A:315:SER:HB3	1:A:386:VAL:HG21	1.84	0.59
1:A:582:ILE:HG22	1:A:586:PHE:HE1	1.67	0.59
1:A:749:THR:HG23	1:A:751:ASP:N	2.17	0.59
1:A:996:LEU:O	1:A:996:LEU:HD13	2.01	0.59
1:A:1153:LYS:HG2	1:A:1182:GLU:OE2	2.01	0.59
1:A:1539:MET:HE3	1:A:1539:MET:CA	2.30	0.59
2:B:1707:LEU:CD2	2:B:2012:LYS:HG3	2.32	0.59
2:B:1793:ILE:CG2	2:B:1796:GLU:HB3	2.32	0.59
2:B:1830:ALA:O	2:B:1839:PHE:HD1	1.85	0.59
2:B:2568:HIS:ND1	2:B:2755:PRO:HB3	2.18	0.59
2:B:2577:MET:CE	2:B:2698:TRP:CZ2	2.71	0.59
2:B:2657:THR:HG23	2:B:2658:ASP:N	2.18	0.59
2:B:2716:GLU:HG2	2:B:2722:TYR:CD1	2.37	0.59
2:B:3187:LEU:HD12	2:B:3190:VAL:CG1	2.32	0.59
2:B:3308:ILE:HG12	2:B:3331:VAL:CG1	2.32	0.59
1:C:32:SER:CA	1:C:37:LYS:HG3	2.32	0.59
1:C:270:TYR:O	1:C:273:LEU:HB2	2.03	0.59
1:C:411:ASP:HB2	1:C:412:PRO:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:HIS:CE1	1:C:1033:LEU:CD2	2.66	0.59
1:C:989:THR:HG22	1:C:990:SER:N	2.17	0.59
1:C:1083:PRO:C	1:C:1086:LEU:HD13	2.28	0.59
1:C:1363:ASN:HB3	1:C:1365:ARG:NH2	2.18	0.59
1:C:1421:GLU:O	1:C:1424:HIS:HB3	2.02	0.59
2:D:1675:ASP:HB2	2:D:1678:GLN:HG3	1.83	0.59
2:D:1949:THR:HG22	2:D:1950:LEU:N	2.18	0.59
2:D:2161:LEU:HB3	2:D:2166:SER:HB2	1.83	0.59
2:D:2609:GLU:HA	2:D:2615:HIS:CD2	2.37	0.59
2:D:2986:LYS:HA	2:D:2990:SER:HB3	1.83	0.59
2:D:3002:THR:HG21	2:D:3041:GLN:OE1	2.00	0.59
2:D:3263:LEU:HD22	2:D:3269:LYS:NZ	2.17	0.59
1:A:286:THR:HG22	1:A:287:PRO:N	2.17	0.59
1:A:513:TYR:CG	1:A:638:ARG:HD3	2.37	0.59
1:A:516:TRP:CE2	1:A:605:ILE:HD12	2.37	0.59
1:A:1033:LEU:HD13	1:A:1033:LEU:O	2.02	0.59
1:A:1224:LEU:HD22	1:A:1224:LEU:N	2.17	0.59
1:A:1618:LEU:HD21	1:A:1648:PHE:HB2	1.84	0.59
2:B:1707:LEU:HA	2:B:1709:PRO:CD	2.33	0.59
2:B:1773:SER:CA	2:B:1789:ILE:HD12	2.31	0.59
2:B:2275:LEU:HD22	2:B:2275:LEU:N	2.16	0.59
2:B:2401:PHE:HE1	2:B:2460:ILE:HG12	1.68	0.59
2:B:2520:LYS:O	2:B:2613:PRO:HG2	2.01	0.59
2:B:2986:LYS:HA	2:B:2990:SER:HB3	1.83	0.59
1:C:128:ILE:HG23	1:C:130:PHE:CE1	2.37	0.59
1:C:411:ASP:HB3	1:C:655:ARG:N	2.17	0.59
1:C:443:PHE:HD1	1:C:543:PRO:HB3	1.66	0.59
1:C:566:LEU:HD22	1:C:566:LEU:N	2.18	0.59
1:C:1427:LEU:C	1:C:1427:LEU:HD13	2.27	0.59
1:C:1646:ILE:HD13	2:D:1906:VAL:HG22	1.84	0.59
2:D:2083:LYS:CG	2:D:2169:ALA:HB2	2.27	0.59
2:D:2520:LYS:O	2:D:2613:PRO:HG2	2.02	0.59
2:D:3340:LEU:HD22	2:D:3377:THR:CG2	2.32	0.59
1:A:164:GLU:CB	1:A:294:LEU:HD13	2.32	0.59
1:A:583:LEU:O	1:A:583:LEU:HD23	2.03	0.59
1:A:989:THR:HG21	1:A:991:ILE:HG22	1.83	0.59
1:A:1059:LEU:C	1:A:1059:LEU:HD13	2.28	0.59
1:A:1061:LYS:HE2	1:A:1067:TYR:CE1	2.37	0.59
1:A:1531:TYR:HD1	1:A:1535:GLN:CD	2.10	0.59
2:B:1747:LYS:HZ1	2:D:2094:ARG:CG	2.11	0.59
2:B:1932:SER:O	2:B:1934:PRO:HD3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2062:THR:HG22	2:B:2063:PRO:N	2.18	0.59
2:B:2495:HIS:CD2	2:B:2515:GLU:OE2	2.55	0.59
2:B:3338:PRO:HB2	2:B:3379:SER:OG	2.03	0.59
2:B:3340:LEU:HD22	2:B:3377:THR:CG2	2.33	0.59
1:C:177:LEU:HD12	1:C:358:TYR:CD1	2.38	0.59
1:C:532:TYR:CE2	1:C:534:ASP:HA	2.38	0.59
1:C:582:ILE:HG22	1:C:586:PHE:HE1	1.67	0.59
1:C:1009:ILE:HG23	1:C:1010:GLN:N	2.18	0.59
2:D:1707:LEU:HA	2:D:1709:PRO:CD	2.33	0.59
2:D:2327:ARG:HG2	2:D:2331:TYR:CE1	2.36	0.59
2:D:2815:ASN:OD1	2:D:2817:ASP:HB2	2.03	0.59
2:D:2893:LYS:HE3	2:D:2894:HIS:O	2.03	0.59
2:D:2976:LEU:O	2:D:2976:LEU:HD23	2.03	0.59
2:D:3211:THR:HG22	2:D:3212:THR:N	2.18	0.59
1:A:183:HIS:ND1	1:A:194:MET:CG	2.52	0.59
1:A:1276:ALA:HB1	1:A:1334:LYS:HB2	1.85	0.59
2:B:1990:PHE:CB	2:B:2045:VAL:HG22	2.33	0.59
2:B:2494:HIS:CG	2:B:3124:VAL:CG1	2.72	0.59
2:B:3219:ILE:CD1	2:B:3271:ARG:HD3	2.31	0.59
1:C:164:GLU:CB	1:C:294:LEU:HD13	2.32	0.59
1:C:620:LEU:HD13	1:C:768:GLU:HB3	1.85	0.59
1:C:1542:GLU:HA	1:C:1545:ARG:HD3	1.83	0.59
2:D:1705:HIS:HB3	2:D:1869:SER:HB3	1.85	0.59
2:D:1707:LEU:CD2	2:D:2012:LYS:HG3	2.32	0.59
2:D:1874:PHE:CE1	2:D:1878:HIS:ND1	2.71	0.59
2:D:1990:PHE:CB	2:D:2045:VAL:HG22	2.33	0.59
2:D:2146:PHE:HD1	2:D:2147:PRO:HD3	1.67	0.59
2:D:2267:VAL:CG2	2:D:2275:LEU:HB2	2.31	0.59
2:D:2346:ASN:O	2:D:2349:PHE:HD1	1.85	0.59
2:D:2829:LEU:HD13	2:D:2830:GLY:N	2.17	0.59
1:A:532:TYR:CE2	1:A:534:ASP:HA	2.38	0.59
1:A:582:ILE:CG1	1:A:601:THR:HG21	2.31	0.59
1:A:1090:ILE:HG23	1:A:1091:ASN:N	2.17	0.59
1:A:1259:ARG:HH22	1:A:1324:VAL:HG11	1.66	0.59
1:A:1427:LEU:C	1:A:1427:LEU:HD13	2.27	0.59
1:A:1659:ASP:OD2	2:B:1939:ASP:CB	2.50	0.59
2:B:1874:PHE:CE1	2:B:1878:HIS:ND1	2.71	0.59
2:B:1949:THR:HG22	2:B:1950:LEU:N	2.18	0.59
2:B:2185:LEU:HD22	2:B:2185:LEU:N	2.17	0.59
2:B:2815:ASN:OD1	2:B:2817:ASP:HB2	2.03	0.59
2:B:3006:LEU:HD21	2:B:3035:VAL:HG11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:LYS:HG3	1:C:134:LYS:N	2.18	0.59
1:C:215:ARG:O	1:C:219:ILE:HG13	2.02	0.59
1:C:464:LEU:HD13	1:C:465:PRO:CG	2.31	0.59
1:C:895:VAL:HG22	1:C:898:MET:HB2	1.83	0.59
1:C:1090:ILE:HG23	1:C:1091:ASN:N	2.17	0.59
1:C:1219:LEU:HD12	1:C:1220:LYS:HG3	1.83	0.59
2:D:1761:LEU:CD1	2:D:1762:PRO:HD2	2.30	0.59
2:D:2172:TYR:HB2	2:D:2293:PHE:HB2	1.84	0.59
2:D:2399:VAL:HG22	2:D:2416:ILE:O	2.02	0.59
1:A:160:LEU:HD21	1:A:293:TYR:HE2	1.67	0.59
1:A:493:LEU:HD21	1:A:682:THR:CB	2.31	0.59
1:A:502:LEU:HA	1:A:505:ARG:CG	2.33	0.59
1:A:841:ASN:OD1	1:A:843:ASP:HB2	2.02	0.59
1:A:928:TRP:HE3	1:A:1041:LEU:HD11	1.64	0.59
1:A:1009:ILE:HG23	1:A:1010:GLN:N	2.17	0.59
1:A:1392:ASP:HA	1:A:1394:LEU:HD23	1.84	0.59
1:A:1421:GLU:O	1:A:1424:HIS:HB3	2.02	0.59
2:B:2244:LEU:C	2:B:2244:LEU:HD13	2.28	0.59
2:B:2660:CYS:CB	2:B:2841:ARG:HH12	2.16	0.59
2:B:3287:LEU:HB2	2:B:3288:PRO:C	2.28	0.59
1:C:1249:GLN:CB	1:C:1470:ARG:NH2	2.61	0.59
2:D:2466:ALA:HB3	2:D:2468:ASN:O	2.03	0.59
2:D:3317:LYS:NZ	2:D:3391:ILE:HG21	2.18	0.59
1:A:23:LEU:CD1	1:A:26:LEU:HD23	2.33	0.59
1:A:34:GLY:O	1:A:38:ILE:HG13	2.03	0.59
1:A:453:ASP:HA	1:A:678:ASN:ND2	2.18	0.59
1:A:482:HIS:HA	1:A:487:PHE:CD2	2.32	0.59
1:A:850:MET:HG2	1:A:940:LEU:HD13	1.85	0.59
1:A:876:HIS:HB3	1:A:1037:ALA:HB2	1.85	0.59
1:A:1083:PRO:C	1:A:1086:LEU:HD13	2.28	0.59
1:A:1363:ASN:HB3	1:A:1365:ARG:NH2	2.17	0.59
2:B:1823:PHE:CD1	2:B:1846:MET:HE1	2.38	0.59
2:B:1845:ILE:HD12	2:B:2022:TYR:CG	2.37	0.59
2:B:2609:GLU:HA	2:B:2615:HIS:CD2	2.37	0.59
2:B:2972:HIS:NE2	2:B:3165:VAL:HG12	2.18	0.59
2:B:3003:ILE:O	2:B:3039:ILE:HG23	2.03	0.59
2:B:3263:LEU:HD22	2:B:3269:LYS:NZ	2.17	0.59
1:C:597:GLN:HA	1:C:777:PHE:HE1	1.68	0.59
1:C:1033:LEU:O	1:C:1033:LEU:HD13	2.02	0.59
1:C:1070:ALA:HB3	1:C:1077:MET:HE1	1.85	0.59
1:C:1086:LEU:HD22	1:C:1090:ILE:CD1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1202:LEU:O	1:C:1203:LYS:HB2	2.03	0.59
1:C:1319:TRP:CZ3	1:C:1323:TYR:HB2	2.38	0.59
1:C:1484:GLN:HE21	2:D:2065:ILE:HB	1.63	0.59
2:D:2083:LYS:HZ3	2:D:2158:GLU:HB3	1.67	0.59
2:D:2099:LEU:CB	2:D:2204:PHE:HZ	2.13	0.59
2:D:2244:LEU:HD13	2:D:2244:LEU:C	2.28	0.59
2:D:2244:LEU:CD1	2:D:2304:LEU:HD22	2.29	0.59
2:D:2687:THR:HG21	2:D:2690:TYR:HB2	1.84	0.59
2:D:2881:ILE:HG22	2:D:2882:LYS:O	2.02	0.59
2:D:2979:ILE:HD12	2:D:2979:ILE:C	2.28	0.59
2:D:2994:ILE:HG23	2:D:3104:ILE:HG22	1.84	0.59
2:D:3003:ILE:O	2:D:3039:ILE:HG23	2.03	0.59
1:A:566:LEU:HD22	1:A:566:LEU:N	2.18	0.58
1:A:891:PHE:HB3	1:A:1183:MET:HG3	1.85	0.58
2:B:2296:LYS:O	2:B:2300:VAL:HG23	2.03	0.58
2:B:2327:ARG:HG2	2:B:2331:TYR:CE1	2.37	0.58
2:B:2829:LEU:HD13	2:B:2830:GLY:N	2.17	0.58
2:B:3297:ASN:O	2:B:3300:VAL:HG13	2.03	0.58
2:B:3316:PRO:CD	2:D:3350:LYS:CE	2.81	0.58
2:B:3317:LYS:NZ	2:B:3391:ILE:HG21	2.18	0.58
1:C:128:ILE:HD12	1:C:128:ILE:N	2.17	0.58
1:C:1147:LEU:HD23	1:C:1148:LEU:N	2.16	0.58
2:D:1773:SER:CA	2:D:1789:ILE:HD12	2.31	0.58
2:D:2144:PRO:HG2	2:D:2318:ALA:CB	2.27	0.58
2:D:2729:ILE:HG22	2:D:2733:LYS:NZ	2.18	0.58
1:A:895:VAL:HG22	1:A:898:MET:HB2	1.83	0.58
1:A:964:ILE:HG12	1:A:1038:PHE:CD2	2.38	0.58
1:A:1345:TRP:CH2	1:A:1430:LEU:HD22	2.37	0.58
1:A:1363:ASN:HB2	1:A:1365:ARG:NE	2.17	0.58
2:B:1784:ILE:HG22	2:B:1785:PRO:N	2.17	0.58
2:B:1924:LEU:HD22	2:B:1924:LEU:N	2.18	0.58
2:B:3211:THR:HG22	2:B:3212:THR:N	2.18	0.58
1:C:516:TRP:CE2	1:C:605:ILE:HD12	2.37	0.58
1:C:964:ILE:HG12	1:C:1038:PHE:CD2	2.38	0.58
1:C:1109:LYS:HG3	1:C:1110:THR:N	2.18	0.58
1:C:1119:LEU:O	1:C:1126:ILE:HD11	2.03	0.58
1:C:1531:TYR:HD1	1:C:1535:GLN:CD	2.10	0.58
2:D:1823:PHE:CD1	2:D:1846:MET:HE1	2.38	0.58
2:D:1890:SER:HA	2:D:1893:ARG:HE	1.67	0.58
2:D:3366:MET:HG2	2:D:3367:TYR:N	2.14	0.58
1:A:177:LEU:HD12	1:A:358:TYR:CZ	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:LEU:HD11	1:A:261:HIS:CE1	2.38	0.58
1:A:458:THR:O	1:A:461:TYR:HD1	1.85	0.58
1:A:649:ARG:HH11	1:A:716:GLU:HG2	1.66	0.58
1:A:1110:THR:HG23	1:A:1111:ASN:N	2.17	0.58
1:A:1484:GLN:H	1:A:1484:GLN:CD	2.12	0.58
1:A:1662:THR:O	2:B:1893:ARG:HB2	2.03	0.58
2:B:1994:ARG:CD	2:B:2035:LEU:HD21	2.32	0.58
2:B:2602:LEU:HD13	2:B:2628:ARG:HH11	1.66	0.58
2:B:2729:ILE:HG22	2:B:2733:LYS:NZ	2.18	0.58
2:B:3006:LEU:HD12	2:B:3006:LEU:H	1.68	0.58
1:C:316:ALA:CB	1:C:383:LEU:HD11	2.33	0.58
1:C:458:THR:O	1:C:461:TYR:HD1	1.85	0.58
1:C:841:ASN:OD1	1:C:843:ASP:HB2	2.02	0.58
2:D:1830:ALA:O	2:D:1839:PHE:HD1	1.85	0.58
2:D:2132:HIS:NE2	2:D:2134:ASN:HB2	2.18	0.58
2:D:2568:HIS:ND1	2:D:2755:PRO:HB3	2.18	0.58
2:D:2640:ARG:HB3	2:D:2643:GLU:CB	2.33	0.58
2:D:2930:LEU:HD13	2:D:2988:HIS:CD2	2.38	0.58
2:D:2972:HIS:NE2	2:D:3165:VAL:HG12	2.18	0.58
2:D:3297:ASN:O	2:D:3300:VAL:HG13	2.03	0.58
2:D:3302:ASP:O	2:D:3324:THR:HA	2.03	0.58
1:A:305:ALA:N	1:A:362:LEU:HD13	2.18	0.58
1:A:384:PHE:CE2	1:A:388:GLY:HA2	2.38	0.58
1:A:405:PRO:CG	1:A:657:HIS:CB	2.63	0.58
1:A:1109:LYS:HG3	1:A:1110:THR:N	2.18	0.58
1:A:1124:LEU:HD11	1:A:1132:LYS:HD2	1.86	0.58
1:A:1171:ALA:HA	1:A:1198:LYS:HE2	1.86	0.58
1:A:1319:TRP:CZ3	1:A:1323:TYR:HB2	2.38	0.58
1:A:1646:ILE:HG21	2:B:1907:ASN:HB3	1.84	0.58
2:B:1811:LEU:O	2:B:1811:LEU:HD23	2.04	0.58
2:B:2323:THR:HG23	2:B:2324:GLN:N	2.18	0.58
1:C:305:ALA:N	1:C:362:LEU:HD13	2.18	0.58
1:C:462:HIS:HB3	1:C:624:ALA:HB2	1.85	0.58
1:C:931:THR:HG21	1:C:1121:PHE:HE1	1.66	0.58
1:C:1277:PHE:HD2	1:C:1373:PRO:HB3	1.69	0.58
2:D:2323:THR:HG23	2:D:2324:GLN:N	2.18	0.58
2:D:2657:THR:HG23	2:D:2658:ASP:N	2.18	0.58
2:D:3006:LEU:H	2:D:3006:LEU:HD12	1.68	0.58
1:A:21:ALA:O	1:A:24:ARG:HG2	2.04	0.58
1:A:157:GLU:OE1	1:A:157:GLU:HA	2.04	0.58
1:A:411:ASP:HB3	1:A:655:ARG:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:HIS:CB	1:A:688:PRO:HB3	2.33	0.58
1:A:1153:LYS:HB2	1:A:1178:GLY:HA3	1.86	0.58
1:A:1322:LEU:O	1:A:1326:VAL:HG23	2.03	0.58
1:A:1395:PHE:CE2	1:A:1430:LEU:HB3	2.39	0.58
2:B:1705:HIS:HB3	2:B:1869:SER:HB3	1.85	0.58
2:B:1854:VAL:HG23	2:B:1862:ILE:CB	2.31	0.58
2:B:2157:PHE:O	2:B:2161:LEU:HD23	2.04	0.58
2:B:2267:VAL:HG23	2:B:2268:GLY:N	2.19	0.58
2:B:2975:ARG:HH12	2:B:3167:SER:HB3	1.68	0.58
2:B:3205:VAL:HG13	2:B:3291:ILE:CD1	2.33	0.58
2:B:3209:ILE:HD11	2:B:3235:ILE:HG22	1.85	0.58
2:B:3314:LEU:N	2:B:3314:LEU:HD23	2.19	0.58
1:C:1363:ASN:HB2	1:C:1365:ARG:NE	2.17	0.58
2:D:2155:LEU:HD21	2:D:2354:LEU:CD1	2.31	0.58
2:D:2296:LYS:O	2:D:2300:VAL:HG23	2.03	0.58
2:D:2472:LEU:HD13	2:D:2472:LEU:C	2.28	0.58
2:D:2533:ASN:OD1	2:D:2580:ALA:HB2	2.03	0.58
2:D:2877:PRO:HB2	2:D:2879:ASP:OD1	2.02	0.58
2:D:3209:ILE:HD11	2:D:3235:ILE:HG22	1.85	0.58
2:D:3320:VAL:HG12	2:D:3321:LYS:N	2.16	0.58
1:A:23:LEU:HD12	1:A:26:LEU:HB3	1.86	0.58
1:A:72:TYR:CD2	1:A:76:MET:HE2	2.37	0.58
1:A:307:PHE:CE2	1:A:320:VAL:HG21	2.38	0.58
1:A:316:ALA:CB	1:A:383:LEU:HD11	2.33	0.58
1:A:896:HIS:CE1	1:A:1033:LEU:CD2	2.66	0.58
1:A:1119:LEU:O	1:A:1126:ILE:HD11	2.03	0.58
1:A:1392:ASP:HB2	1:A:1395:PHE:CZ	2.39	0.58
2:B:1741:PHE:CE1	2:B:1875:TYR:HE1	2.22	0.58
2:B:2466:ALA:HB3	2:B:2468:ASN:O	2.03	0.58
1:C:315:SER:HB3	1:C:386:VAL:HG21	1.84	0.58
1:C:1124:LEU:HD11	1:C:1132:LYS:CD	2.34	0.58
1:C:1312:GLY:HA3	1:C:1597:PHE:CD2	2.37	0.58
1:C:1538:HIS:ND1	2:D:2498:SER:CB	2.67	0.58
1:C:1648:PHE:CB	2:D:1903:ASN:O	2.51	0.58
2:D:2141:HIS:HA	2:D:2146:PHE:HD2	1.68	0.58
2:D:2504:VAL:HG11	2:D:2506:LYS:HE2	1.85	0.58
2:D:2737:ARG:HB3	2:D:2738:PRO:HA	1.85	0.58
2:D:3059:LEU:CD2	2:D:3116:TRP:HB2	2.34	0.58
2:D:3353:VAL:CG2	2:D:3381:THR:HG22	2.33	0.58
1:A:179:HIS:HD1	1:A:213:VAL:CG1	2.04	0.58
1:A:477:TYR:HD1	1:A:478:ALA:O	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:578:LEU:HD13	1:A:581:GLN:HE22	1.64	0.58
1:A:924:ALA:O	1:A:926:PRO:HD3	2.04	0.58
2:B:1806:ILE:HD11	2:B:1854:VAL:HG12	1.85	0.58
2:B:2100:LYS:O	2:B:2100:LYS:HD3	2.04	0.58
2:B:2246:GLN:C	2:B:2308:ARG:HH12	2.12	0.58
2:B:3339:MET:SD	2:B:3389:LEU:HD13	2.44	0.58
1:C:254:ASP:O	1:C:256:PRO:HD3	2.04	0.58
1:C:486:ILE:HG12	1:C:667:LEU:HD21	1.86	0.58
1:C:850:MET:HG2	1:C:940:LEU:HD13	1.85	0.58
1:C:1406:TYR:CA	1:C:1543:ARG:HH22	2.14	0.58
2:D:1811:LEU:O	2:D:1811:LEU:HD23	2.04	0.58
2:D:1924:LEU:HD22	2:D:1924:LEU:N	2.18	0.58
2:D:2140:ILE:CG2	2:D:2146:PHE:HA	2.31	0.58
2:D:2596:THR:HG23	2:D:2647:TYR:HA	1.85	0.58
2:D:3292:ILE:HD13	2:D:3292:ILE:C	2.29	0.58
1:A:22:ALA:CB	1:A:83:LYS:HB3	2.33	0.58
1:A:688:PRO:HA	1:A:691:ILE:HG13	1.84	0.58
1:A:802:ILE:CD1	1:A:810:LEU:HD12	2.34	0.58
1:A:931:THR:HG22	1:A:991:ILE:HG12	1.85	0.58
1:A:1030:MET:SD	1:A:1036:THR:HG23	2.44	0.58
1:A:1124:LEU:HD11	1:A:1132:LYS:CD	2.34	0.58
1:A:1142:PHE:HB3	1:A:1195:ILE:HG23	1.84	0.58
1:A:1189:ARG:NH1	2:B:2431:ARG:HA	2.19	0.58
1:A:1338:VAL:HG12	1:A:1339:ALA:N	2.19	0.58
2:B:1737:TYR:CE2	2:B:1741:PHE:HE1	2.22	0.58
2:B:1817:LYS:NZ	2:D:1779:GLU:HA	2.18	0.58
2:B:1874:PHE:CZ	2:B:1878:HIS:NE2	2.68	0.58
2:B:1890:SER:HA	2:B:1893:ARG:HE	1.67	0.58
2:B:2493:ASP:OD1	2:B:3124:VAL:HG21	2.03	0.58
2:B:2596:THR:HG23	2:B:2647:TYR:HA	1.85	0.58
2:B:2930:LEU:HD13	2:B:2988:HIS:CD2	2.38	0.58
2:B:2948:TYR:OH	2:B:3240:LYS:HD3	2.04	0.58
2:B:2976:LEU:O	2:B:2976:LEU:HD23	2.03	0.58
2:B:2994:ILE:HG23	2:B:3104:ILE:HG22	1.84	0.58
1:C:21:ALA:O	1:C:24:ARG:HG2	2.04	0.58
1:C:23:LEU:HD12	1:C:26:LEU:HB3	1.86	0.58
1:C:748:LYS:CA	1:C:754:GLN:HG2	2.33	0.58
1:C:1059:LEU:C	1:C:1059:LEU:HD13	2.28	0.58
1:C:1124:LEU:HD11	1:C:1132:LYS:HD2	1.86	0.58
1:C:1276:ALA:HB1	1:C:1334:LYS:HB2	1.85	0.58
1:C:1338:VAL:HG12	1:C:1339:ALA:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2100:LYS:O	2:D:2100:LYS:HD3	2.04	0.58
2:D:2115:PHE:CA	2:D:2118:ILE:HG22	2.33	0.58
2:D:2157:PHE:O	2:D:2161:LEU:HD23	2.04	0.58
2:D:2267:VAL:HG23	2:D:2268:GLY:N	2.19	0.58
2:D:3205:VAL:HG13	2:D:3291:ILE:CD1	2.33	0.58
1:A:177:LEU:HD12	1:A:358:TYR:CD1	2.38	0.58
1:A:301:ALA:HB1	1:A:404:HIS:CB	2.34	0.58
1:A:698:LEU:CD1	1:A:700:TYR:HB3	2.29	0.58
1:A:977:ASN:O	1:A:980:PHE:HD1	1.86	0.58
2:B:2115:PHE:CA	2:B:2118:ILE:HG22	2.33	0.58
2:B:2275:LEU:CD1	2:B:2284:ASP:HB3	2.27	0.58
2:B:2472:LEU:HD13	2:B:2472:LEU:C	2.28	0.58
2:B:2979:ILE:HD12	2:B:2979:ILE:C	2.28	0.58
2:B:3142:HIS:CD2	2:B:3145:ASN:HD21	2.16	0.58
2:B:3378:ALA:CB	2:B:3384:CYS:HA	2.32	0.58
1:C:384:PHE:CE2	1:C:388:GLY:HA2	2.38	0.58
1:C:453:ASP:HA	1:C:678:ASN:ND2	2.18	0.58
1:C:533:VAL:HG13	1:C:533:VAL:O	2.03	0.58
1:C:649:ARG:HH11	1:C:716:GLU:HG2	1.66	0.58
1:C:802:ILE:CD1	1:C:810:LEU:HD12	2.34	0.58
1:C:876:HIS:HB3	1:C:1037:ALA:HB2	1.85	0.58
1:C:1030:MET:SD	1:C:1036:THR:HG23	2.44	0.58
1:C:1392:ASP:HB2	1:C:1395:PHE:CZ	2.39	0.58
2:D:1854:VAL:CG2	2:D:1862:ILE:HG13	2.34	0.58
2:D:2115:PHE:HA	2:D:2118:ILE:CG2	2.33	0.58
2:D:2627:THR:HG23	2:D:2681:THR:HG21	1.85	0.58
1:A:162:ALA:HB2	1:A:174:GLN:HB3	1.86	0.58
1:A:1019:HIS:HA	1:A:1030:MET:HG3	1.85	0.58
1:A:1442:LEU:C	1:A:1442:LEU:HD13	2.29	0.58
1:A:1640:VAL:HG23	1:A:1641:ILE:N	2.19	0.58
2:B:2142:GLY:HA3	2:B:2427:TRP:CE3	2.38	0.58
2:B:2195:TRP:CB	2:D:1921:PRO:C	2.77	0.58
2:B:2243:ALA:HB2	2:B:2255:GLN:HG2	1.85	0.58
2:B:2737:ARG:HB3	2:B:2738:PRO:HA	1.85	0.58
2:B:2940:GLU:OE2	2:B:3025:ARG:HB3	2.04	0.58
2:B:3024:ILE:HD12	2:B:3098:PHE:CG	2.39	0.58
2:B:3268:VAL:O	2:B:3268:VAL:HG13	2.04	0.58
1:C:33:ILE:HD11	1:C:254:ASP:OD2	2.04	0.58
1:C:106:ALA:O	1:C:108:PRO:HD3	2.04	0.58
1:C:157:GLU:OE1	1:C:157:GLU:HA	2.04	0.58
1:C:307:PHE:CE2	1:C:320:VAL:HG21	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:489:HIS:CB	1:C:688:PRO:HB3	2.33	0.58
1:C:502:LEU:HA	1:C:505:ARG:CG	2.33	0.58
1:C:931:THR:HG22	1:C:991:ILE:HG12	1.85	0.58
1:C:1322:LEU:O	1:C:1326:VAL:HG23	2.03	0.58
2:D:1854:VAL:HG11	2:D:1873:LEU:CD2	2.34	0.58
2:D:2660:CYS:CB	2:D:2841:ARG:HH12	2.16	0.58
2:D:2697:PHE:CZ	2:D:2701:HIS:NE2	2.72	0.58
2:D:3339:MET:SD	2:D:3389:LEU:HD13	2.44	0.58
1:A:3:LEU:HD11	1:A:81:GLN:CD	2.29	0.57
1:A:106:ALA:O	1:A:108:PRO:HD3	2.03	0.57
1:A:486:ILE:HG12	1:A:667:LEU:HD21	1.86	0.57
1:A:620:LEU:HD13	1:A:768:GLU:HB3	1.85	0.57
1:A:1086:LEU:CB	1:A:1090:ILE:HG21	2.34	0.57
1:A:1108:TYR:HB2	1:A:1114:TYR:CZ	2.39	0.57
2:B:2141:HIS:HA	2:B:2146:PHE:HD2	1.68	0.57
2:B:2533:ASN:OD1	2:B:2580:ALA:HB2	2.03	0.57
2:B:2680:LEU:HD12	2:B:2680:LEU:C	2.29	0.57
1:C:933:PRO:HB3	1:C:981:GLU:HA	1.85	0.57
1:C:1013:ILE:HA	1:C:1016:ASN:OD1	2.03	0.57
1:C:1108:TYR:HB2	1:C:1114:TYR:CZ	2.39	0.57
2:D:1757:TRP:CZ3	2:D:1873:LEU:HD21	2.39	0.57
2:D:1845:ILE:HD12	2:D:2022:TYR:CG	2.37	0.57
2:D:3215:VAL:HG21	2:D:3233:PHE:CE1	2.39	0.57
2:D:3318:VAL:O	2:D:3320:VAL:HG23	2.04	0.57
1:A:496:THR:CB	1:A:698:LEU:HD21	2.33	0.57
1:A:1019:HIS:HA	1:A:1030:MET:CG	2.35	0.57
1:A:1557:ASN:HB3	1:A:1597:PHE:CE2	2.38	0.57
2:B:1854:VAL:CG2	2:B:1862:ILE:HG13	2.34	0.57
2:B:2640:ARG:HB3	2:B:2643:GLU:CB	2.34	0.57
2:B:2953:PRO:CD	2:B:2960:TYR:HB3	2.34	0.57
2:B:3194:LEU:HD12	2:B:3194:LEU:N	2.19	0.57
2:B:3286:VAL:HG23	2:B:3286:VAL:O	2.04	0.57
1:C:477:TYR:HD1	1:C:478:ALA:O	1.87	0.57
1:C:516:TRP:CZ3	1:C:605:ILE:HG23	2.40	0.57
1:C:1286:TYR:O	1:C:1289:ILE:HG12	2.05	0.57
1:C:1484:GLN:CD	1:C:1484:GLN:H	2.11	0.57
1:C:1515:TYR:CZ	1:C:1519:PHE:HB2	2.35	0.57
1:C:1640:VAL:HG23	1:C:1641:ILE:N	2.19	0.57
2:D:1737:TYR:CE2	2:D:1741:PHE:HE1	2.22	0.57
2:D:2760:GLU:CB	2:D:2763:ARG:HD2	2.34	0.57
2:D:2940:GLU:OE2	2:D:3025:ARG:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3045:PHE:HD1	2:D:3182:HIS:HE2	1.51	0.57
2:D:3305:GLU:OE1	2:D:3317:LYS:HE3	2.04	0.57
1:A:33:ILE:H	1:A:33:ILE:HD12	1.69	0.57
1:A:489:HIS:HB3	1:A:691:ILE:HG13	1.85	0.57
1:A:597:GLN:HA	1:A:777:PHE:HE1	1.68	0.57
2:B:1759:TRP:CD1	2:B:1811:LEU:HD11	2.37	0.57
2:B:1850:VAL:HG21	2:B:1877:HIS:CG	2.39	0.57
2:B:2103:LEU:HD23	2:B:2106:LEU:CD1	2.34	0.57
2:B:2115:PHE:HA	2:B:2118:ILE:CG2	2.33	0.57
2:B:2289:ILE:N	2:B:2289:ILE:HD12	2.19	0.57
2:B:3028:ASN:CG	2:B:3029:GLN:H	2.12	0.57
2:B:3308:ILE:HG22	2:B:3312:VAL:HB	1.86	0.57
2:B:3391:ILE:H	2:B:3391:ILE:CD1	2.15	0.57
1:C:23:LEU:CD1	1:C:26:LEU:HD23	2.33	0.57
1:C:33:ILE:H	1:C:33:ILE:HD12	1.69	0.57
1:C:594:PHE:CE2	1:C:598:PHE:HB2	2.39	0.57
1:C:891:PHE:HB3	1:C:1183:MET:HG3	1.85	0.57
1:C:1420:LEU:O	1:C:1423:LEU:HG	2.05	0.57
2:D:2118:ILE:O	2:D:2121:PHE:HD1	1.87	0.57
2:D:2142:GLY:HA3	2:D:2427:TRP:CE3	2.38	0.57
2:D:2246:GLN:C	2:D:2308:ARG:HH12	2.12	0.57
2:D:2622:LEU:HD23	2:D:2690:TYR:OH	2.05	0.57
2:D:3028:ASN:CG	2:D:3029:GLN:H	2.12	0.57
2:D:3286:VAL:HG23	2:D:3286:VAL:O	2.04	0.57
1:A:254:ASP:O	1:A:256:PRO:HD3	2.04	0.57
1:A:749:THR:HG23	1:A:751:ASP:HB2	1.86	0.57
1:A:872:LEU:HD12	1:A:875:PHE:CD1	2.40	0.57
2:B:1854:VAL:HG11	2:B:1873:LEU:CD2	2.35	0.57
2:B:2159:GLN:HG2	2:B:2336:ASN:HD21	1.69	0.57
2:B:2500:ALA:CB	2:B:3131:SER:CB	2.82	0.57
2:B:3059:LEU:CD2	2:B:3116:TRP:HB2	2.34	0.57
2:B:3215:VAL:HG21	2:B:3233:PHE:CE1	2.39	0.57
2:B:3353:VAL:CG2	2:B:3381:THR:HG22	2.33	0.57
1:C:3:LEU:HD11	1:C:81:GLN:CD	2.29	0.57
1:C:95:THR:CG2	1:C:283:ASN:HD21	2.17	0.57
1:C:146:LYS:HZ1	1:C:148:LYS:HE3	1.70	0.57
1:C:924:ALA:O	1:C:926:PRO:HD3	2.04	0.57
1:C:1087:SER:N	1:C:1097:LYS:HE2	2.20	0.57
1:C:1189:ARG:NH2	2:D:2431:ARG:HB3	2.18	0.57
1:C:1345:TRP:CZ3	1:C:1400:PHE:HD2	2.22	0.57
1:C:1557:ASN:HB3	1:C:1597:PHE:CE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2124:LEU:HD13	2:D:2124:LEU:C	2.29	0.57
2:D:3322:ARG:HG3	2:D:3371:SER:CB	2.34	0.57
1:A:89:LEU:CD2	1:A:89:LEU:H	2.17	0.57
1:A:533:VAL:O	1:A:533:VAL:HG13	2.03	0.57
1:A:866:ALA:O	1:A:871:GLN:HB3	2.05	0.57
1:A:1156:LEU:HD21	1:A:1173:GLU:CD	2.29	0.57
1:A:1345:TRP:CZ3	1:A:1400:PHE:HD2	2.22	0.57
2:B:1987:THR:HG22	2:B:2048:THR:HG22	1.86	0.57
2:B:1987:THR:CG2	2:B:2048:THR:HG22	2.34	0.57
2:B:2132:HIS:NE2	2:B:2134:ASN:HB2	2.18	0.57
2:B:2170:VAL:HG11	2:B:2288:PHE:HD1	1.69	0.57
2:B:3160:LEU:HD12	2:B:3162:ASN:HB2	1.86	0.57
2:B:3288:PRO:HB2	2:B:3313:ASN:O	2.04	0.57
2:B:3292:ILE:HD13	2:B:3292:ILE:C	2.29	0.57
1:C:160:LEU:HD21	1:C:293:TYR:HE2	1.67	0.57
1:C:255:ILE:O	1:C:255:ILE:HG23	2.04	0.57
1:C:592:CYS:CB	1:C:775:ARG:HH12	2.17	0.57
1:C:1156:LEU:HD21	1:C:1173:GLU:CD	2.29	0.57
1:C:1395:PHE:CE2	1:C:1430:LEU:HB3	2.39	0.57
2:D:2975:ARG:HH12	2:D:3114:ILE:HD11	1.69	0.57
2:D:3288:PRO:HB2	2:D:3313:ASN:O	2.04	0.57
1:A:33:ILE:HD11	1:A:254:ASP:OD2	2.04	0.57
1:A:169:CYS:HB3	1:A:356:ARG:NH2	2.20	0.57
1:A:516:TRP:CZ3	1:A:605:ILE:HG23	2.39	0.57
1:A:748:LYS:CA	1:A:754:GLN:HG2	2.33	0.57
1:A:1420:LEU:O	1:A:1423:LEU:HG	2.05	0.57
2:B:2562:GLY:HA3	2:B:2837:TRP:CD2	2.40	0.57
2:B:3160:LEU:HD13	2:B:3162:ASN:N	2.17	0.57
1:C:169:CYS:HB3	1:C:356:ARG:NH2	2.20	0.57
1:C:602:HIS:ND1	1:C:636:VAL:HG21	2.19	0.57
1:C:676:LEU:CD2	1:C:1365:ARG:CA	2.83	0.57
1:C:943:HIS:CE1	1:C:946:TYR:CE1	2.93	0.57
1:C:991:ILE:HG23	1:C:992:ALA:N	2.19	0.57
1:C:1019:HIS:HA	1:C:1030:MET:CG	2.35	0.57
1:C:1153:LYS:HB2	1:C:1178:GLY:HA3	1.86	0.57
1:C:1171:ALA:HA	1:C:1198:LYS:HE2	1.86	0.57
1:C:1300:GLN:HE21	1:C:1305:PRO:HA	1.70	0.57
1:C:1545:ARG:NH1	1:C:1545:ARG:HB2	2.20	0.57
2:D:1806:ILE:HD11	2:D:1854:VAL:HG12	1.85	0.57
2:D:1987:THR:CG2	2:D:2048:THR:HG22	2.34	0.57
2:D:2159:GLN:HG2	2:D:2336:ASN:HD21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2569:TRP:CZ3	2:D:2573:TYR:HB2	2.40	0.57
2:D:2680:LEU:HD12	2:D:2680:LEU:C	2.29	0.57
2:D:2999:TRP:HH2	2:D:3074:LEU:HD11	1.69	0.57
2:D:3160:LEU:HD12	2:D:3162:ASN:HB2	1.86	0.57
1:A:55:ILE:HD12	1:A:350:MET:HB2	1.86	0.57
1:A:67:HIS:CG	1:A:264:PRO:HB3	2.40	0.57
1:A:95:THR:CG2	1:A:283:ASN:HD21	2.17	0.57
1:A:205:ILE:HG13	1:A:206:PHE:N	2.19	0.57
1:A:854:ARG:HE	1:A:955:LYS:HD2	1.70	0.57
1:A:1129:LEU:O	1:A:1133:LEU:HG	2.05	0.57
1:A:1277:PHE:HD2	1:A:1373:PRO:HB3	1.69	0.57
1:A:1567:PHE:HD1	1:A:1583:ALA:HA	1.69	0.57
2:B:1914:LYS:HD3	2:B:1918:PHE:CE1	2.36	0.57
2:B:2149:TRP:HA	2:B:2326:MET:HE1	1.87	0.57
2:B:2569:TRP:CZ3	2:B:2573:TYR:HB2	2.40	0.57
2:B:2687:THR:HG21	2:B:2690:TYR:HB2	1.84	0.57
2:B:3287:LEU:HB2	2:B:3288:PRO:CA	2.35	0.57
1:C:34:GLY:O	1:C:38:ILE:HG13	2.03	0.57
1:C:89:LEU:HB2	1:C:207:PHE:CZ	2.40	0.57
1:C:257:LEU:HD11	1:C:261:HIS:CE1	2.38	0.57
1:C:585:ALA:O	1:C:594:PHE:HD1	1.88	0.57
1:C:872:LEU:HD12	1:C:875:PHE:CD1	2.40	0.57
1:C:1070:ALA:HB3	1:C:1077:MET:SD	2.45	0.57
1:C:1134:GLU:OE1	1:C:1134:GLU:HA	2.05	0.57
1:C:1485:LEU:HD12	1:C:1485:LEU:N	2.19	0.57
2:D:2062:THR:HG22	2:D:2063:PRO:N	2.18	0.57
2:D:2953:PRO:CD	2:D:2960:TYR:HB3	2.34	0.57
2:D:3317:LYS:HZ3	2:D:3391:ILE:HG21	1.70	0.57
1:A:89:LEU:HB2	1:A:207:PHE:CZ	2.40	0.57
1:A:502:LEU:O	1:A:505:ARG:HB2	2.04	0.57
2:B:1693:HIS:CD2	2:D:2101:TYR:C	2.83	0.57
2:B:1711:CYS:CB	2:B:1712:PRO:HD3	2.34	0.57
2:B:2103:LEU:CD2	2:B:2161:LEU:HD11	2.31	0.57
2:B:2206:ARG:NH2	2:B:2218:ARG:HG2	2.16	0.57
2:B:2267:VAL:HG21	2:B:2275:LEU:CG	2.31	0.57
2:B:2622:LEU:HD23	2:B:2690:TYR:OH	2.05	0.57
2:B:2634:LEU:CD1	2:B:2676:TRP:HE3	2.14	0.57
2:B:2867:ARG:O	2:B:2867:ARG:HG3	2.04	0.57
1:C:405:PRO:CG	1:C:657:HIS:CB	2.63	0.57
2:D:1741:PHE:CE1	2:D:1875:TYR:HE1	2.22	0.57
2:D:2103:LEU:HD23	2:D:2106:LEU:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3211:THR:HA	2:D:3238:GLY:CA	2.34	0.57
2:D:3391:ILE:H	2:D:3391:ILE:CD1	2.15	0.57
1:A:133:LYS:HG3	1:A:134:LYS:N	2.18	0.57
1:A:436:VAL:HG21	1:A:526:LEU:HG	1.85	0.57
1:A:585:ALA:O	1:A:594:PHE:HD1	1.88	0.57
1:A:592:CYS:CB	1:A:775:ARG:HH12	2.17	0.57
1:A:592:CYS:HB3	1:A:775:ARG:HH12	1.70	0.57
1:A:854:ARG:HB3	1:A:854:ARG:NH1	2.19	0.57
1:A:1073:ALA:HB1	1:A:1076:SER:OG	2.05	0.57
1:A:1286:TYR:O	1:A:1289:ILE:HG12	2.05	0.57
2:B:2647:TYR:HD1	2:B:2774:HIS:CE1	2.23	0.57
2:B:3052:PHE:CZ	2:B:3056:LEU:HD23	2.40	0.57
1:C:55:ILE:HD12	1:C:350:MET:HB2	1.86	0.57
1:C:100:GLN:HG2	1:C:101:LEU:N	2.20	0.57
1:C:436:VAL:HG21	1:C:526:LEU:HG	1.85	0.57
1:C:769:MET:HE3	1:C:769:MET:CA	2.22	0.57
1:C:1086:LEU:CB	1:C:1090:ILE:HG21	2.34	0.57
1:C:1542:GLU:OE2	2:D:2501:GLY:HA3	2.05	0.57
2:D:2289:ILE:HD12	2:D:2289:ILE:N	2.19	0.57
2:D:2562:GLY:HA3	2:D:2837:TRP:CD2	2.40	0.57
2:D:2811:PHE:CE2	2:D:2823:ALA:HB1	2.40	0.57
2:D:2948:TYR:OH	2:D:3240:LYS:HD3	2.04	0.57
2:D:3265:ASP:HB2	2:D:3292:ILE:HD11	1.85	0.57
2:D:3353:VAL:CG1	2:D:3377:THR:HG21	2.35	0.57
1:A:498:VAL:HG11	1:A:511:ILE:HD11	1.76	0.57
1:A:906:ARG:HH11	1:A:1108:TYR:HB3	1.67	0.57
1:A:991:ILE:CD1	1:A:995:VAL:HG13	2.35	0.57
1:A:1055:ILE:HG22	1:A:1119:LEU:HB3	1.86	0.57
1:A:1070:ALA:HB3	1:A:1077:MET:HE1	1.85	0.57
1:A:1485:LEU:HD12	1:A:1485:LEU:N	2.19	0.57
2:B:2124:LEU:HD13	2:B:2124:LEU:C	2.29	0.57
2:B:2280:TYR:O	2:B:2283:TYR:HD1	1.88	0.57
2:B:2519:LEU:HD12	2:B:2605:PHE:CZ	2.40	0.57
2:B:2624:VAL:HG22	2:B:2625:ASP:N	2.20	0.57
2:B:3318:VAL:O	2:B:3320:VAL:HG23	2.04	0.57
1:C:496:THR:CB	1:C:698:LEU:HD21	2.33	0.57
1:C:576:THR:HG23	1:C:579:PHE:CB	2.34	0.57
1:C:1055:ILE:HG22	1:C:1119:LEU:HB3	1.86	0.57
1:C:1289:ILE:HD12	1:C:1327:VAL:HG12	1.85	0.57
1:C:1442:LEU:HD13	1:C:1442:LEU:C	2.29	0.57
2:D:1733:TRP:HB2	2:D:1913:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2194:VAL:HG12	2:D:2195:TRP:N	2.20	0.57
1:A:97:PRO:HG2	1:A:148:LYS:HD3	1.87	0.56
1:A:100:GLN:HG2	1:A:101:LEU:N	2.20	0.56
1:A:576:THR:HG23	1:A:579:PHE:CB	2.34	0.56
1:A:861:LYS:HZ3	1:A:962:GLY:HA3	1.69	0.56
1:A:880:LYS:HD3	1:A:880:LYS:N	2.19	0.56
1:A:943:HIS:CE1	1:A:946:TYR:CE1	2.93	0.56
1:A:991:ILE:HG23	1:A:992:ALA:N	2.19	0.56
1:A:1134:GLU:OE1	1:A:1134:GLU:HA	2.05	0.56
2:B:2146:PHE:CD1	2:B:2147:PRO:HD3	2.40	0.56
2:B:2179:ILE:HG23	2:B:2179:ILE:O	2.04	0.56
2:B:2291:HIS:HA	2:B:2294:VAL:HG12	1.87	0.56
2:B:2535:TYR:CZ	2:B:2698:TRP:HH2	2.22	0.56
2:B:2885:THR:HG22	2:B:2886:VAL:N	2.19	0.56
1:C:402:VAL:CG2	1:C:657:HIS:O	2.53	0.56
1:C:486:ILE:H	1:C:662:LEU:HD21	1.70	0.56
1:C:489:HIS:HB3	1:C:691:ILE:HG13	1.85	0.56
1:C:854:ARG:NH1	1:C:854:ARG:HB3	2.19	0.56
2:D:2146:PHE:CD1	2:D:2147:PRO:HD3	2.40	0.56
2:D:3342:LEU:HA	2:D:3375:PHE:HB3	1.87	0.56
1:A:35:PHE:HA	1:A:38:ILE:HD12	1.87	0.56
1:A:94:TRP:HB2	1:A:182:ILE:HD11	1.87	0.56
1:A:572:PHE:CZ	1:A:848:GLU:HG3	2.41	0.56
1:A:1070:ALA:HB3	1:A:1077:MET:SD	2.45	0.56
1:A:1087:SER:N	1:A:1097:LYS:HE2	2.20	0.56
1:A:1202:LEU:O	1:A:1203:LYS:HB2	2.03	0.56
1:A:1407:ALA:O	1:A:1416:PHE:HD1	1.87	0.56
2:B:2556:TYR:HD1	2:B:2557:SER:O	1.87	0.56
2:B:2948:TYR:CD2	2:B:2949:PRO:HA	2.40	0.56
2:B:2975:ARG:HH12	2:B:3114:ILE:HD11	1.69	0.56
2:B:3215:VAL:HA	2:B:3275:LYS:HA	1.88	0.56
2:B:3322:ARG:HG3	2:B:3371:SER:CB	2.34	0.56
1:C:864:LYS:HA	1:C:864:LYS:HE2	1.87	0.56
1:C:866:ALA:O	1:C:871:GLN:HB3	2.05	0.56
1:C:1476:TYR:CE2	1:C:1477:ARG:HB3	2.41	0.56
1:C:1646:ILE:HG23	1:C:1646:ILE:O	2.05	0.56
2:D:1711:CYS:CB	2:D:1712:PRO:HD3	2.34	0.56
2:D:1730:PHE:CD1	2:D:1731:PRO:HD3	2.40	0.56
2:D:1761:LEU:HD12	2:D:1762:PRO:CD	2.31	0.56
2:D:1784:ILE:HG23	2:D:1785:PRO:HD2	1.87	0.56
2:D:1850:VAL:HG21	2:D:1877:HIS:CG	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2085:ARG:HD2	2:D:2358:TYR:HE1	1.63	0.56
2:D:3287:LEU:HB2	2:D:3288:PRO:CA	2.35	0.56
2:D:3314:LEU:HD23	2:D:3314:LEU:N	2.19	0.56
2:D:3318:VAL:HG13	2:D:3394:HIS:O	2.04	0.56
1:A:234:MET:HE1	1:A:241:LEU:HB2	1.87	0.56
1:A:250:TRP:HE3	1:A:252:ASP:HB2	1.66	0.56
1:A:255:ILE:HG23	1:A:255:ILE:O	2.04	0.56
1:A:324:ILE:HG22	1:A:326:ASP:H	1.70	0.56
1:A:373:LEU:HD22	1:A:373:LEU:N	2.20	0.56
1:A:582:ILE:HG21	1:A:639:LEU:CD2	2.35	0.56
1:A:647:GLN:HE22	1:A:650:ARG:HH21	1.53	0.56
1:A:676:LEU:CD2	1:A:1365:ARG:CA	2.83	0.56
1:A:839:ARG:HG2	1:A:924:ALA:HB1	1.87	0.56
1:A:895:VAL:HG13	1:A:895:VAL:O	2.05	0.56
1:A:998:ALA:O	1:A:1007:PHE:HD1	1.88	0.56
1:A:1033:LEU:HD13	1:A:1033:LEU:C	2.31	0.56
1:A:1289:ILE:HD12	1:A:1327:VAL:HG12	1.85	0.56
1:A:1316:PHE:CB	1:A:1317:PRO:HD3	2.36	0.56
1:A:1557:ASN:HD22	1:A:1597:PHE:HZ	1.53	0.56
1:A:1646:ILE:HG23	1:A:1646:ILE:O	2.05	0.56
2:B:1733:TRP:HB2	2:B:1913:LEU:HD23	1.87	0.56
2:B:1760:THR:CG2	2:B:1824:ILE:HG12	2.36	0.56
2:B:1784:ILE:HG23	2:B:1785:PRO:HD2	1.87	0.56
2:B:1800:VAL:HG22	2:B:1801:HIS:N	2.21	0.56
2:B:1909:MET:HE3	2:B:1934:PRO:C	2.31	0.56
2:B:2118:ILE:O	2:B:2121:PHE:HD1	1.87	0.56
2:B:2195:TRP:HB3	2:D:1921:PRO:O	2.05	0.56
2:B:2356:TYR:HE2	2:B:2358:TYR:CE2	2.23	0.56
2:B:2811:PHE:CE2	2:B:2823:ALA:HB1	2.40	0.56
2:B:2974:HIS:NE2	3:B:9008:CUO:O2	2.38	0.56
2:B:3265:ASP:HB2	2:B:3292:ILE:HD11	1.85	0.56
2:B:3305:GLU:OE1	2:B:3317:LYS:HE3	2.04	0.56
1:C:94:TRP:HB2	1:C:182:ILE:HD11	1.87	0.56
1:C:97:PRO:HG2	1:C:148:LYS:HD3	1.87	0.56
1:C:162:ALA:HB2	1:C:174:GLN:HB3	1.86	0.56
1:C:234:MET:HE1	1:C:241:LEU:HB2	1.87	0.56
1:C:849:GLU:O	1:C:921:TYR:HE1	1.89	0.56
1:C:880:LYS:N	1:C:880:LYS:HD3	2.19	0.56
1:C:1073:ALA:HB1	1:C:1076:SER:OG	2.05	0.56
1:C:1262:ILE:HA	1:C:1265:LEU:CD2	2.34	0.56
1:C:1330:ALA:O	1:C:1334:LYS:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1407:ALA:O	1:C:1416:PHE:HD1	1.87	0.56
2:D:1708:PRO:HD3	2:D:1795:PHE:CZ	2.40	0.56
2:D:2179:ILE:HG23	2:D:2179:ILE:O	2.04	0.56
2:D:2244:LEU:HD13	2:D:2244:LEU:O	2.05	0.56
2:D:2280:TYR:O	2:D:2283:TYR:HD1	1.88	0.56
2:D:2291:HIS:HA	2:D:2294:VAL:HG12	1.87	0.56
2:D:2356:TYR:HE2	2:D:2358:TYR:CE2	2.23	0.56
2:D:2401:PHE:HE1	2:D:2460:ILE:HG21	1.70	0.56
2:D:2401:PHE:HE1	2:D:2460:ILE:HG12	1.68	0.56
2:D:2556:TYR:HD1	2:D:2557:SER:O	1.87	0.56
2:D:3007:PRO:HB2	2:D:3010:PHE:CE2	2.40	0.56
2:D:3184:ILE:HG13	2:D:3185:GLU:N	2.19	0.56
2:D:3308:ILE:HG22	2:D:3312:VAL:HB	1.86	0.56
1:A:83:LYS:O	1:A:84:ARG:HB3	2.05	0.56
1:A:162:ALA:O	1:A:171:PHE:HD1	1.89	0.56
1:A:234:MET:CE	1:A:241:LEU:HB2	2.35	0.56
2:B:1874:PHE:CD2	2:B:1878:HIS:CE1	2.82	0.56
2:B:2390:LEU:HD22	2:B:2390:LEU:N	2.20	0.56
2:B:3184:ILE:HG13	2:B:3185:GLU:N	2.19	0.56
2:B:3318:VAL:HG13	2:B:3394:HIS:O	2.05	0.56
2:B:3342:LEU:HA	2:B:3375:PHE:HB3	1.87	0.56
1:C:307:PHE:CZ	1:C:320:VAL:HG21	2.40	0.56
1:C:486:ILE:HD11	1:C:688:PRO:CG	2.18	0.56
1:C:502:LEU:O	1:C:505:ARG:HB2	2.04	0.56
1:C:1575:HIS:HB3	2:D:2783:HIS:CB	2.36	0.56
2:D:1760:THR:CG2	2:D:1824:ILE:HG12	2.36	0.56
2:D:1909:MET:HE3	2:D:1934:PRO:C	2.31	0.56
2:D:1988:VAL:HG12	2:D:2047:ILE:CG1	2.18	0.56
2:D:1988:VAL:HG21	2:D:2005:PHE:CE1	2.40	0.56
2:D:2948:TYR:CD2	2:D:2949:PRO:HA	2.40	0.56
2:D:3024:ILE:HD12	2:D:3098:PHE:CG	2.39	0.56
1:A:73:VAL:HG23	1:A:74:VAL:N	2.21	0.56
1:A:307:PHE:CZ	1:A:320:VAL:HG21	2.40	0.56
1:A:462:HIS:HD2	1:A:480:CYS:CB	2.19	0.56
1:A:896:HIS:HA	1:A:901:PHE:HD2	1.71	0.56
1:A:1112:PHE:HB2	1:A:1114:TYR:CE2	2.41	0.56
1:A:1192:LYS:HZ1	1:A:1235:ILE:CD1	2.17	0.56
1:A:1300:GLN:HE21	1:A:1305:PRO:HA	1.70	0.56
1:A:1363:ASN:CB	1:A:1365:ARG:NH2	2.69	0.56
1:C:77:GLU:HA	1:C:80:LEU:CD2	2.35	0.56
1:C:572:PHE:CZ	1:C:848:GLU:HG3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:629:PHE:CZ	1:C:633:HIS:NE2	2.72	0.56
1:C:861:LYS:HZ3	1:C:962:GLY:HA3	1.70	0.56
1:C:895:VAL:HG13	1:C:895:VAL:O	2.05	0.56
1:C:1242:HIS:CE1	1:C:1476:TYR:OH	2.59	0.56
1:C:1262:ILE:HD12	1:C:1353:PRO:CB	2.36	0.56
1:C:1453:LEU:HD12	1:C:1453:LEU:N	2.20	0.56
2:D:2149:TRP:HA	2:D:2326:MET:HE1	1.87	0.56
2:D:2390:LEU:HD22	2:D:2390:LEU:N	2.20	0.56
2:D:2535:TYR:CZ	2:D:2698:TRP:HH2	2.22	0.56
2:D:2544:ASN:HA	2:D:2546:PRO:HD3	1.87	0.56
2:D:2624:VAL:HG22	2:D:2625:ASP:N	2.20	0.56
2:D:3194:LEU:HD12	2:D:3194:LEU:N	2.20	0.56
1:A:77:GLU:HA	1:A:80:LEU:CD2	2.35	0.56
1:A:901:PHE:CB	1:A:902:PRO:HD3	2.35	0.56
1:A:1242:HIS:CE1	1:A:1476:TYR:OH	2.59	0.56
1:A:1262:ILE:HD12	1:A:1353:PRO:CB	2.36	0.56
1:A:1277:PHE:HD2	1:A:1373:PRO:CB	2.18	0.56
2:B:1708:PRO:HD3	2:B:1795:PHE:CZ	2.40	0.56
2:B:1730:PHE:CD1	2:B:1731:PRO:HD3	2.40	0.56
2:B:2182:ILE:HG22	2:B:2187:THR:HG23	1.88	0.56
2:B:3007:PRO:HB2	2:B:3010:PHE:CE2	2.40	0.56
2:B:3144:PHE:CA	2:B:3149:VAL:HG11	2.35	0.56
1:C:67:HIS:CG	1:C:264:PRO:HB3	2.40	0.56
1:C:73:VAL:HG23	1:C:74:VAL:N	2.21	0.56
1:C:205:ILE:HG13	1:C:206:PHE:N	2.19	0.56
1:C:579:PHE:CD2	1:C:707:PHE:CE2	2.94	0.56
1:C:629:PHE:CD1	1:C:633:HIS:CE1	2.83	0.56
1:C:901:PHE:CB	1:C:902:PRO:HD3	2.35	0.56
1:C:991:ILE:CD1	1:C:995:VAL:HG13	2.35	0.56
1:C:1033:LEU:HD13	1:C:1033:LEU:C	2.30	0.56
1:C:1129:LEU:O	1:C:1133:LEU:HG	2.05	0.56
1:C:1188:ASP:OD1	2:D:2389:LEU:HD12	2.03	0.56
1:C:1557:ASN:HD22	1:C:1597:PHE:HZ	1.53	0.56
2:D:1987:THR:HG22	2:D:2048:THR:HG22	1.86	0.56
2:D:2217:VAL:HG12	2:D:2218:ARG:N	2.21	0.56
2:D:3081:LEU:HD22	2:D:3081:LEU:N	2.20	0.56
2:D:3144:PHE:CA	2:D:3149:VAL:HG11	2.35	0.56
1:A:486:ILE:H	1:A:662:LEU:HD21	1.70	0.56
1:A:1330:ALA:O	1:A:1334:LYS:HG2	2.06	0.56
2:B:2366:MET:CB	2:B:2371:ILE:HG22	2.35	0.56
2:B:3081:LEU:HD22	2:B:3081:LEU:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3195:ARG:HH22	2:B:3295:ARG:HH21	1.54	0.56
2:B:3213:ALA:HB1	2:B:3276:LYS:O	2.06	0.56
2:B:3243:PRO:CG	2:D:3354:PRO:HA	2.36	0.56
1:C:72:TYR:CE2	1:C:76:MET:HE2	2.41	0.56
1:C:896:HIS:HA	1:C:901:PHE:HD2	1.71	0.56
1:C:1084:PHE:HA	1:C:1091:ASN:HD22	1.71	0.56
2:D:2173:TRP:HB2	2:D:2289:ILE:CG2	2.36	0.56
2:D:2236:LEU:HD13	2:D:2236:LEU:C	2.31	0.56
1:A:65:PHE:CB	1:A:66:PRO:HD3	2.35	0.56
1:A:100:GLN:HG2	1:A:101:LEU:H	1.71	0.56
1:A:577:ASP:O	1:A:581:GLN:HG3	2.06	0.56
1:A:1328:GLU:OE2	1:A:1339:ALA:HB1	2.06	0.56
1:A:1453:LEU:HD12	1:A:1453:LEU:N	2.20	0.56
2:B:1811:LEU:HD23	2:B:1811:LEU:C	2.31	0.56
2:B:2236:LEU:HD13	2:B:2236:LEU:C	2.31	0.56
2:B:2975:ARG:HD2	2:B:3164:VAL:HG12	1.87	0.56
2:B:3275:LYS:HG3	2:B:3282:LEU:HD11	1.87	0.56
2:B:3349:PHE:CD1	2:B:3375:PHE:CD1	2.94	0.56
1:C:273:LEU:HD12	1:C:273:LEU:H	1.71	0.56
1:C:301:ALA:HB1	1:C:404:HIS:CB	2.34	0.56
1:C:391:LEU:HD12	1:C:391:LEU:N	2.20	0.56
1:C:436:VAL:HG23	1:C:526:LEU:CD1	2.36	0.56
1:C:577:ASP:O	1:C:581:GLN:HG3	2.06	0.56
1:C:854:ARG:HE	1:C:955:LYS:HD2	1.70	0.56
1:C:878:GLU:HA	1:C:879:PRO:C	2.30	0.56
1:C:1124:LEU:CD2	1:C:1128:GLN:HG2	2.35	0.56
1:C:1605:LEU:HD13	1:C:1605:LEU:C	2.31	0.56
2:D:2146:PHE:CB	2:D:2147:PRO:HD3	2.36	0.56
2:D:2170:VAL:HG11	2:D:2288:PHE:HD1	1.69	0.56
2:D:2182:ILE:HG22	2:D:2187:THR:HG23	1.87	0.56
2:D:2799:LEU:O	2:D:2800:LEU:HD23	2.06	0.56
2:D:2943:ALA:HA	2:D:3103:MET:HE1	1.87	0.56
2:D:3052:PHE:CZ	2:D:3056:LEU:HD23	2.40	0.56
2:D:3195:ARG:HH22	2:D:3295:ARG:HH21	1.54	0.56
2:D:3215:VAL:HA	2:D:3275:LYS:HA	1.88	0.56
1:A:72:TYR:CE2	1:A:76:MET:HE2	2.41	0.56
1:A:197:LEU:HD13	1:A:197:LEU:C	2.31	0.56
1:A:526:LEU:HD21	1:A:544:PHE:CD2	2.41	0.56
1:A:700:TYR:HE2	1:A:702:TYR:CZ	2.24	0.56
1:A:770:LYS:HE2	1:A:770:LYS:HA	1.88	0.56
1:A:1479:ALA:CB	1:A:1486:MET:HE3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1704:PHE:CE2	2:B:1915:PRO:HB2	2.41	0.56
2:B:2493:ASP:HB3	2:B:2506:LYS:CD	2.35	0.56
2:B:2544:ASN:HA	2:B:2546:PRO:HD3	1.87	0.56
2:B:2822:PHE:HZ	2:B:2825:THR:HG22	1.70	0.56
2:B:3214:VAL:HG12	2:B:3215:VAL:N	2.21	0.56
1:C:35:PHE:HA	1:C:38:ILE:HD12	1.87	0.56
1:C:210:HIS:O	1:C:213:VAL:HG22	2.06	0.56
1:C:241:LEU:HD13	1:C:241:LEU:C	2.31	0.56
1:C:998:ALA:O	1:C:1007:PHE:HD1	1.88	0.56
1:C:1019:HIS:CE1	1:C:1036:THR:HG21	2.41	0.56
1:C:1078:ARG:HB3	2:D:2456:GLU:HA	1.88	0.56
1:C:1277:PHE:HD2	1:C:1373:PRO:CB	2.18	0.56
2:D:1704:PHE:CE2	2:D:1915:PRO:HB2	2.41	0.56
2:D:2182:ILE:HG22	2:D:2187:THR:CG2	2.36	0.56
2:D:2366:MET:CB	2:D:2371:ILE:HG22	2.36	0.56
2:D:2804:LYS:O	2:D:2804:LYS:HG2	2.06	0.56
2:D:3268:VAL:O	2:D:3268:VAL:HG13	2.04	0.56
1:A:21:ALA:HA	1:A:24:ARG:CD	2.35	0.56
1:A:147:VAL:HG13	1:A:147:VAL:O	2.07	0.56
1:A:391:LEU:HD12	1:A:391:LEU:N	2.20	0.56
1:A:424:VAL:O	1:A:509:ILE:CG2	2.54	0.56
2:B:1693:HIS:HD2	2:D:2101:TYR:HB3	0.86	0.56
2:B:2627:THR:HG23	2:B:2681:THR:HG21	1.85	0.56
2:B:2697:PHE:CZ	2:B:2701:HIS:NE2	2.72	0.56
2:B:3033:ARG:HB2	2:B:3082:ILE:O	2.06	0.56
1:C:162:ALA:O	1:C:171:PHE:HD1	1.89	0.56
1:C:592:CYS:HB3	1:C:775:ARG:HH12	1.70	0.56
1:C:1262:ILE:CD1	1:C:1353:PRO:HB3	2.36	0.56
2:D:2121:PHE:CE2	2:D:2328:PRO:HB2	2.41	0.56
2:D:2273:TYR:CD2	2:D:2280:TYR:CE1	2.94	0.56
2:D:2640:ARG:HB3	2:D:2643:GLU:HB2	1.88	0.56
2:D:2822:PHE:HZ	2:D:2825:THR:HG22	1.70	0.56
2:D:2867:ARG:HG3	2:D:2867:ARG:O	2.04	0.56
2:D:2946:HIS:HB3	2:D:3097:ALA:HB2	1.88	0.56
2:D:3006:LEU:HD12	2:D:3006:LEU:N	2.21	0.56
1:A:19:LEU:CD1	1:A:85:ARG:HD3	2.36	0.55
1:A:238:GLN:HE21	1:A:820:VAL:HG12	1.67	0.55
1:A:442:ALA:C	1:A:505:ARG:HD3	2.31	0.55
1:A:594:PHE:CE2	1:A:598:PHE:HB2	2.39	0.55
1:A:891:PHE:CB	1:A:1183:MET:HG2	2.36	0.55
1:A:1019:HIS:CE1	1:A:1036:THR:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1545:ARG:NH1	1:A:1545:ARG:HB2	2.20	0.55
2:B:1757:TRP:CE3	2:B:1759:TRP:CZ2	2.95	0.55
2:B:1770:LEU:HD21	2:B:1876:ILE:CG1	2.34	0.55
2:B:2083:LYS:CG	2:B:2169:ALA:HB2	2.27	0.55
2:B:2605:PHE:HE2	2:B:2614:PHE:CD2	2.24	0.55
2:B:3045:PHE:HD1	2:B:3182:HIS:HE2	1.51	0.55
1:C:19:LEU:CD1	1:C:85:ARG:HD3	2.36	0.55
1:C:122:TYR:CE2	1:C:123:TRP:CD1	2.95	0.55
1:C:197:LEU:HD13	1:C:197:LEU:C	2.31	0.55
1:C:442:ALA:C	1:C:505:ARG:HD3	2.31	0.55
1:C:458:THR:HA	1:C:461:TYR:CD1	2.41	0.55
1:C:1054:ALA:O	1:C:1057:GLN:HG2	2.06	0.55
1:C:1059:LEU:HD13	1:C:1059:LEU:O	2.06	0.55
1:C:1075:THR:HG23	1:C:1076:SER:N	2.21	0.55
1:C:1103:PHE:O	1:C:1106:PHE:HD1	1.89	0.55
1:C:1280:ILE:CA	1:C:1334:LYS:HD2	2.36	0.55
1:C:1479:ALA:CB	1:C:1486:MET:HE3	2.35	0.55
1:C:1567:PHE:HD1	1:C:1583:ALA:HA	1.69	0.55
2:D:2168:VAL:HG22	2:D:2169:ALA:H	1.71	0.55
2:D:2519:LEU:HD12	2:D:2605:PHE:CZ	2.40	0.55
2:D:3010:PHE:CZ	2:D:3101:TYR:HD1	2.24	0.55
1:A:273:LEU:HD12	1:A:273:LEU:H	1.71	0.55
1:A:458:THR:HA	1:A:461:TYR:CD1	2.41	0.55
1:A:572:PHE:HZ	1:A:848:GLU:HG3	1.71	0.55
1:A:602:HIS:ND1	1:A:636:VAL:HG21	2.19	0.55
1:A:703:GLU:HG3	1:A:704:ASP:N	2.22	0.55
1:A:881:TRP:CE3	1:A:1090:ILE:HD12	2.42	0.55
1:A:964:ILE:CD1	1:A:1035:TYR:HD1	2.18	0.55
1:A:1192:LYS:HZ2	1:A:1235:ILE:CD1	2.14	0.55
1:A:1437:TYR:CD2	1:A:1444:TYR:CE1	2.94	0.55
2:B:1671:ILE:CD1	2:B:1770:LEU:HD11	2.36	0.55
2:B:1742:GLN:HE22	2:B:1945:TYR:HB3	1.71	0.55
2:B:1953:ALA:CB	2:B:1955:TRP:HZ3	2.17	0.55
2:B:2140:ILE:CG2	2:B:2146:PHE:HA	2.31	0.55
2:B:2173:TRP:HB2	2:B:2289:ILE:CG2	2.36	0.55
2:B:2277:SER:O	2:B:2281:ALA:HB2	2.07	0.55
2:B:2760:GLU:CB	2:B:2763:ARG:HD2	2.34	0.55
2:B:2804:LYS:O	2:B:2804:LYS:HG2	2.06	0.55
2:B:3353:VAL:CG1	2:B:3377:THR:HG21	2.35	0.55
1:C:33:ILE:HD12	1:C:33:ILE:N	2.22	0.55
1:C:74:VAL:HG21	1:C:273:LEU:CD2	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:ILE:HG22	1:C:326:ASP:H	1.70	0.55
1:C:572:PHE:HZ	1:C:848:GLU:HG3	1.71	0.55
1:C:881:TRP:CE3	1:C:1090:ILE:HD12	2.42	0.55
1:C:891:PHE:CB	1:C:1183:MET:HG2	2.36	0.55
1:C:1019:HIS:HA	1:C:1030:MET:HG3	1.85	0.55
1:C:1160:ASN:HD22	1:C:1168:CYS:CB	2.15	0.55
1:C:1316:PHE:CB	1:C:1317:PRO:HD3	2.35	0.55
1:C:1321:ARG:HH22	1:C:1466:GLN:NE2	2.04	0.55
2:D:1671:ILE:CD1	2:D:1770:LEU:HD11	2.36	0.55
2:D:2243:ALA:CA	2:D:2246:GLN:HE21	2.17	0.55
2:D:2245:GLU:HG3	2:D:2245:GLU:O	2.06	0.55
2:D:2647:TYR:HD1	2:D:2774:HIS:CE1	2.23	0.55
2:D:2975:ARG:HH12	2:D:3167:SER:HB3	1.68	0.55
2:D:3338:PRO:HB2	2:D:3379:SER:HB3	1.87	0.55
1:A:99:THR:HG23	1:A:100:GLN:N	2.21	0.55
1:A:182:ILE:HD12	1:A:209:HIS:HE1	1.71	0.55
1:A:352:TRP:CZ3	1:A:354:PHE:CE2	2.95	0.55
1:A:440:ARG:CA	1:A:544:PHE:HE2	2.18	0.55
1:A:579:PHE:CD2	1:A:707:PHE:CE2	2.94	0.55
1:A:1462:TRP:O	1:A:1466:GLN:HG3	2.06	0.55
2:B:2036:ARG:H	2:B:2039:GLU:HG3	1.71	0.55
2:B:2194:VAL:HG12	2:B:2195:TRP:N	2.20	0.55
2:B:2206:ARG:HD3	2:B:2216:THR:OG1	2.06	0.55
2:B:2996:TYR:HB2	2:B:3108:SER:HA	1.89	0.55
2:B:3274:LEU:C	2:B:3274:LEU:HD13	2.32	0.55
1:C:65:PHE:CB	1:C:66:PRO:HD3	2.35	0.55
1:C:322:VAL:HG23	1:C:379:VAL:CG1	2.36	0.55
1:C:373:LEU:HD22	1:C:373:LEU:N	2.20	0.55
1:C:487:PHE:CB	1:C:488:PRO:HD3	2.36	0.55
1:C:676:LEU:HD23	1:C:1365:ARG:HA	1.89	0.55
1:C:1161:ILE:HD12	1:C:1161:ILE:N	2.21	0.55
1:C:1328:GLU:OE2	1:C:1339:ALA:HB1	2.06	0.55
1:C:1345:TRP:HH2	1:C:1426:ALA:HB1	1.71	0.55
1:C:1462:TRP:O	1:C:1466:GLN:HG3	2.06	0.55
2:D:2657:THR:OG1	2:D:2720:LEU:HD13	2.06	0.55
2:D:2930:LEU:HD23	2:D:2939:TYR:HD1	1.71	0.55
2:D:3349:PHE:CD1	2:D:3375:PHE:CD1	2.94	0.55
1:A:436:VAL:HG23	1:A:526:LEU:CD1	2.36	0.55
1:A:759:THR:HG22	1:A:760:PHE:N	2.22	0.55
1:A:782:THR:O	1:A:786:LYS:HG3	2.07	0.55
1:A:849:GLU:O	1:A:921:TYR:HE1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1262:ILE:CD1	1:A:1353:PRO:HB3	2.36	0.55
1:A:1280:ILE:CA	1:A:1334:LYS:HD2	2.36	0.55
1:A:1406:TYR:HA	1:A:1543:ARG:HH12	1.71	0.55
1:A:1431:LEU:CD1	1:A:1450:VAL:HG11	2.36	0.55
2:B:1730:PHE:CB	2:B:1731:PRO:HD3	2.36	0.55
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD21	2.41	0.55
2:B:1946:ILE:HG12	2:B:1947:TYR:H	1.71	0.55
2:B:1988:VAL:HG21	2:B:2005:PHE:CE1	2.40	0.55
2:B:2596:THR:HG21	2:B:2773:PHE:HZ	1.69	0.55
2:B:3024:ILE:HG12	2:B:3029:GLN:O	2.07	0.55
2:B:3205:VAL:HG13	2:B:3291:ILE:HD12	1.89	0.55
1:C:5:ARG:HG2	1:C:89:LEU:HD23	1.89	0.55
1:C:83:LYS:O	1:C:84:ARG:HB3	2.05	0.55
1:C:182:ILE:HD12	1:C:209:HIS:HE1	1.71	0.55
1:C:210:HIS:CA	1:C:213:VAL:HG22	2.33	0.55
1:C:424:VAL:O	1:C:509:ILE:CG2	2.54	0.55
1:C:759:THR:HG22	1:C:760:PHE:N	2.22	0.55
1:C:1437:TYR:CD2	1:C:1444:TYR:CE1	2.94	0.55
1:C:1568:VAL:HG12	1:C:1622:PHE:HB2	1.88	0.55
2:D:1757:TRP:CE3	2:D:1759:TRP:CZ2	2.95	0.55
2:D:1819:HIS:CG	2:D:1820:HIS:N	2.74	0.55
2:D:1823:PHE:CZ	2:D:1853:TRP:CZ3	2.95	0.55
2:D:1860:TYR:CD2	2:D:1867:TYR:CE1	2.95	0.55
2:D:2277:SER:O	2:D:2281:ALA:HB2	2.06	0.55
2:D:2605:PHE:HE2	2:D:2614:PHE:CD2	2.24	0.55
2:D:2975:ARG:HD2	2:D:3164:VAL:HG12	1.87	0.55
2:D:3275:LYS:HG3	2:D:3282:LEU:HD11	1.87	0.55
1:A:210:HIS:CA	1:A:213:VAL:HG22	2.33	0.55
1:A:248:PHE:HB3	1:A:258:THR:CG2	2.34	0.55
1:A:1028:TYR:CD2	1:A:1035:TYR:CE1	2.95	0.55
1:A:1160:ASN:HD22	1:A:1168:CYS:CB	2.15	0.55
1:A:1262:ILE:HA	1:A:1265:LEU:CD2	2.34	0.55
1:A:1277:PHE:CZ	1:A:1286:TYR:CE1	2.95	0.55
1:A:1353:PRO:HD2	1:A:1356:ILE:HD11	1.88	0.55
2:B:1680:LEU:C	2:B:1680:LEU:HD13	2.31	0.55
2:B:1732:GLN:HG2	2:B:1934:PRO:HB3	1.89	0.55
2:B:1829:LEU:HD13	2:B:1829:LEU:C	2.32	0.55
2:B:1857:LYS:HD3	2:B:2050:TYR:O	2.06	0.55
2:B:2106:LEU:HD11	2:B:2161:LEU:HD13	1.88	0.55
2:B:2244:LEU:HD13	2:B:2244:LEU:O	2.06	0.55
2:B:2258:VAL:HG21	2:B:2416:ILE:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3010:PHE:CZ	2:B:3101:TYR:HD1	2.24	0.55
2:B:3200:VAL:CG1	2:B:3255:THR:HA	2.36	0.55
1:C:70:ARG:NH2	1:C:270:TYR:HB3	2.21	0.55
1:C:440:ARG:CA	1:C:544:PHE:HE2	2.18	0.55
1:C:782:THR:O	1:C:786:LYS:HG3	2.07	0.55
1:C:839:ARG:HG2	1:C:924:ALA:HB1	1.87	0.55
1:C:1500:ASP:O	1:C:1503:THR:HG22	2.07	0.55
2:D:1741:PHE:CZ	2:D:1875:TYR:CE1	2.94	0.55
2:D:1850:VAL:O	2:D:1854:VAL:HG22	2.06	0.55
2:D:2173:TRP:HB2	2:D:2289:ILE:HG21	1.88	0.55
2:D:2176:THR:CG2	2:D:2236:LEU:HD12	2.17	0.55
2:D:3213:ALA:HB1	2:D:3276:LYS:O	2.06	0.55
1:A:210:HIS:O	1:A:213:VAL:HG22	2.05	0.55
1:A:746:PHE:HB3	1:A:756:LYS:HA	1.89	0.55
1:A:878:GLU:HA	1:A:879:PRO:C	2.30	0.55
1:A:1059:LEU:HD13	1:A:1059:LEU:O	2.07	0.55
1:A:1476:TYR:CD2	1:A:1477:ARG:CB	2.88	0.55
2:B:1677:ARG:O	2:B:1680:LEU:HB3	2.07	0.55
2:B:1860:TYR:CD2	2:B:1867:TYR:CE1	2.95	0.55
2:B:2170:VAL:HB	2:B:2288:PHE:HE1	1.70	0.55
2:B:2209:VAL:HG13	2:B:2209:VAL:O	2.06	0.55
2:B:2369:HIS:CD2	2:B:2373:LYS:HD2	2.42	0.55
2:B:3142:HIS:CG	2:B:3146:TYR:HE2	2.25	0.55
1:C:21:ALA:HA	1:C:24:ARG:CD	2.35	0.55
1:C:94:TRP:CD2	1:C:182:ILE:HG12	2.42	0.55
1:C:208:LEU:N	1:C:208:LEU:HD12	2.22	0.55
1:C:509:ILE:CG2	1:C:510:GLY:H	2.20	0.55
1:C:526:LEU:HD21	1:C:544:PHE:CD2	2.41	0.55
1:C:582:ILE:HG21	1:C:639:LEU:CD2	2.35	0.55
1:C:647:GLN:HE22	1:C:650:ARG:HH21	1.53	0.55
1:C:749:THR:HG23	1:C:751:ASP:HB2	1.86	0.55
1:C:881:TRP:CE3	1:C:885:PRO:HB3	2.41	0.55
1:C:1363:ASN:CB	1:C:1365:ARG:NH2	2.69	0.55
1:C:1406:TYR:HA	1:C:1543:ARG:NH1	2.22	0.55
1:C:1547:ASP:HB3	1:C:1648:PHE:HZ	1.72	0.55
1:C:1646:ILE:HG21	2:D:1906:VAL:HG22	1.88	0.55
2:D:1704:PHE:HB2	2:D:1737:TYR:HE1	1.71	0.55
2:D:2596:THR:HG21	2:D:2773:PHE:HZ	1.69	0.55
2:D:2909:ARG:HB3	2:D:2994:ILE:O	2.07	0.55
2:D:3274:LEU:C	2:D:3274:LEU:HD13	2.32	0.55
1:A:5:ARG:HG2	1:A:89:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ILE:HD12	1:A:33:ILE:N	2.22	0.55
1:A:122:TYR:CE2	1:A:123:TRP:CD1	2.95	0.55
1:A:1605:LEU:HD13	1:A:1605:LEU:C	2.31	0.55
2:B:1695:SER:CB	2:D:2195:TRP:HD1	2.19	0.55
2:B:1823:PHE:CZ	2:B:1853:TRP:CZ3	2.95	0.55
2:B:2273:TYR:CD2	2:B:2280:TYR:CE1	2.94	0.55
2:B:2946:HIS:HB3	2:B:3097:ALA:HB2	1.88	0.55
2:B:3338:PRO:HB2	2:B:3379:SER:HB3	1.87	0.55
1:C:100:GLN:HG2	1:C:101:LEU:H	1.71	0.55
1:C:147:VAL:HG13	1:C:147:VAL:O	2.07	0.55
1:C:302:ARG:HB2	1:C:304:PHE:CE1	2.42	0.55
1:C:705:LEU:HD22	1:C:705:LEU:N	2.22	0.55
1:C:1202:LEU:HD12	1:C:1204:LEU:HD12	1.88	0.55
1:C:1306:ILE:HG22	1:C:1307:SER:N	2.22	0.55
2:D:1730:PHE:CB	2:D:1731:PRO:HD3	2.36	0.55
2:D:2106:LEU:HD11	2:D:2161:LEU:HD13	1.88	0.55
2:D:2136:VAL:HG11	2:D:2425:MET:SD	2.46	0.55
2:D:2157:PHE:HB2	2:D:2288:PHE:HE2	1.63	0.55
2:D:2362:GLU:OE2	2:D:2365:GLY:HA2	2.07	0.55
2:D:2427:TRP:CZ3	2:D:2429:TYR:CE2	2.95	0.55
2:D:2540:ALA:HB1	2:D:2547:MET:SD	2.47	0.55
1:A:49:VAL:HB	1:A:52:ASP:OD1	2.07	0.55
1:A:227:ARG:O	1:A:228:ASN:HB2	2.07	0.55
1:A:864:LYS:HE2	1:A:864:LYS:HA	1.87	0.55
1:A:881:TRP:CE3	1:A:885:PRO:HB3	2.42	0.55
1:A:1054:ALA:O	1:A:1057:GLN:HG2	2.06	0.55
1:A:1075:THR:HG23	1:A:1076:SER:N	2.21	0.55
1:A:1321:ARG:HH22	1:A:1466:GLN:NE2	2.04	0.55
1:A:1473:LYS:O	1:A:1473:LYS:HG3	2.06	0.55
2:B:1737:TYR:CE2	2:B:1741:PHE:CE1	2.95	0.55
2:B:2101:TYR:HB3	2:D:1693:HIS:CG	2.42	0.55
2:B:2127:LYS:NZ	2:B:2131:SER:HB2	2.22	0.55
2:B:2156:GLN:HE21	2:B:2156:GLN:HA	1.72	0.55
2:B:2244:LEU:HD12	2:B:2375:ILE:HG21	1.88	0.55
2:B:2653:ALA:HB1	2:B:2662:PHE:CE1	2.41	0.55
2:B:2799:LEU:O	2:B:2800:LEU:HD23	2.06	0.55
2:B:3009:PHE:CE1	2:B:3019:PHE:CG	2.95	0.55
1:C:70:ARG:HB2	1:C:267:LEU:HD21	1.89	0.55
1:C:234:MET:CE	1:C:241:LEU:HB2	2.35	0.55
1:C:802:ILE:HD11	1:C:815:ILE:CG1	2.35	0.55
1:C:930:TRP:CZ3	1:C:991:ILE:HD13	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1242:HIS:ND1	1:C:1476:TYR:OH	2.40	0.55
2:D:1732:GLN:HG2	2:D:1934:PRO:HB3	1.89	0.55
2:D:2179:ILE:CD1	2:D:2182:ILE:HD13	2.37	0.55
2:D:2307:LYS:CD	2:D:2369:HIS:HA	2.37	0.55
2:D:2369:HIS:CD2	2:D:2373:LYS:HD2	2.42	0.55
2:D:2646:PHE:CE1	2:D:2676:TRP:CZ3	2.95	0.55
1:A:70:ARG:HB2	1:A:267:LEU:HD21	1.89	0.55
1:A:996:LEU:HD13	1:A:996:LEU:C	2.32	0.55
1:A:1163:THR:HG22	1:A:1164:ASP:N	2.22	0.55
1:A:1648:PHE:CB	2:B:1903:ASN:O	2.48	0.55
2:B:1913:LEU:HD13	2:B:1934:PRO:HD3	1.88	0.55
2:B:2182:ILE:HG22	2:B:2187:THR:CG2	2.36	0.55
2:B:2245:GLU:HG3	2:B:2245:GLU:O	2.06	0.55
2:B:2401:PHE:HE1	2:B:2460:ILE:HG21	1.71	0.55
2:B:2500:ALA:HB1	2:B:3131:SER:CB	2.36	0.55
2:B:2538:ILE:CB	2:B:2577:MET:SD	2.95	0.55
2:B:2909:ARG:HB3	2:B:2994:ILE:O	2.07	0.55
2:B:2930:LEU:HD23	2:B:2939:TYR:HD1	1.72	0.55
1:C:352:TRP:CZ3	1:C:354:PHE:CE2	2.95	0.55
1:C:700:TYR:HE2	1:C:702:TYR:CZ	2.24	0.55
1:C:1163:THR:HG22	1:C:1164:ASP:N	2.22	0.55
1:C:1431:LEU:CD1	1:C:1450:VAL:HG11	2.36	0.55
2:D:1737:TYR:CE2	2:D:1741:PHE:CE1	2.95	0.55
2:D:1829:LEU:HD13	2:D:1829:LEU:C	2.32	0.55
2:D:2156:GLN:HA	2:D:2156:GLN:HE21	1.72	0.55
2:D:3024:ILE:HG12	2:D:3029:GLN:O	2.07	0.55
2:D:3142:HIS:CG	2:D:3146:TYR:HE2	2.25	0.55
2:D:3327:MET:CG	2:D:3328:PHE:H	2.15	0.55
1:A:241:LEU:HD13	1:A:241:LEU:C	2.31	0.55
1:A:322:VAL:HG11	1:A:369:MET:CE	2.36	0.55
1:A:402:VAL:CG2	1:A:657:HIS:O	2.52	0.55
1:A:427:ASN:HB3	1:A:513:TYR:CE2	2.42	0.55
1:A:802:ILE:HD11	1:A:815:ILE:CG1	2.35	0.55
2:B:1704:PHE:HB2	2:B:1737:TYR:HE1	1.71	0.55
2:B:1718:LYS:HG3	2:B:1718:LYS:O	2.06	0.55
2:B:1760:THR:HG21	2:B:1952:PHE:CZ	2.42	0.55
2:B:2153:TYR:CE2	2:B:2157:PHE:CE1	2.95	0.55
2:B:2402:GLN:NE2	2:B:2412:HIS:HA	2.22	0.55
2:B:2646:PHE:CE1	2:B:2676:TRP:CZ3	2.95	0.55
1:C:162:ALA:HB2	1:C:174:GLN:CB	2.37	0.55
1:C:385:SER:HB2	1:C:391:LEU:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:515:ASP:O	1:C:518:GLU:HG2	2.07	0.55
1:C:874:ALA:HB1	1:C:881:TRP:HE1	1.71	0.55
1:C:964:ILE:CD1	1:C:1035:TYR:HD1	2.18	0.55
1:C:996:LEU:HD13	1:C:996:LEU:C	2.32	0.55
1:C:1112:PHE:HB2	1:C:1114:TYR:CE2	2.41	0.55
1:C:1310:VAL:HG22	1:C:1319:TRP:HB2	1.89	0.55
1:C:1345:TRP:CZ3	1:C:1426:ALA:HB3	2.42	0.55
1:C:1473:LYS:O	1:C:1473:LYS:HG3	2.06	0.55
2:D:2206:ARG:NH2	2:D:2218:ARG:HG2	2.16	0.55
2:D:2243:ALA:HB2	2:D:2255:GLN:HG2	1.85	0.55
2:D:2252:PHE:CE2	2:D:2256:PHE:CD1	2.95	0.55
2:D:2258:VAL:HG21	2:D:2416:ILE:HG23	1.87	0.55
2:D:2388:PHE:C	2:D:2432:LEU:HD12	2.32	0.55
2:D:2402:GLN:NE2	2:D:2412:HIS:HA	2.22	0.55
2:D:3009:PHE:CE1	2:D:3019:PHE:CG	2.95	0.55
2:D:3161:PRO:O	2:D:3165:VAL:HG13	2.07	0.55
1:A:128:ILE:HG22	1:A:131:LEU:H	1.72	0.54
1:A:442:ALA:HB1	1:A:505:ARG:HB3	1.90	0.54
1:A:509:ILE:CG2	1:A:510:GLY:H	2.20	0.54
1:A:1124:LEU:CD2	1:A:1128:GLN:HG2	2.35	0.54
1:A:1161:ILE:HD12	1:A:1161:ILE:N	2.21	0.54
1:A:1242:HIS:ND1	1:A:1476:TYR:OH	2.40	0.54
1:A:1345:TRP:HH2	1:A:1426:ALA:HB1	1.71	0.54
2:B:1741:PHE:CZ	2:B:1875:TYR:CE1	2.94	0.54
2:B:2121:PHE:CE2	2:B:2328:PRO:HB2	2.41	0.54
2:B:2362:GLU:OE2	2:B:2365:GLY:HA2	2.07	0.54
2:B:2386:ALA:O	2:B:2434:LYS:HA	2.07	0.54
2:B:2646:PHE:CE1	2:B:2676:TRP:HZ3	2.25	0.54
2:B:2680:LEU:HD12	2:B:2681:THR:CA	2.38	0.54
2:B:3020:PHE:O	2:B:3021:LYS:HG3	2.07	0.54
2:B:3083:GLY:HA3	2:B:3091:SER:H	1.72	0.54
1:C:99:THR:HG23	1:C:100:GLN:N	2.22	0.54
1:C:446:PHE:HB2	1:C:505:ARG:NE	2.22	0.54
1:C:462:HIS:HD2	1:C:480:CYS:CB	2.19	0.54
1:C:493:LEU:HD22	1:C:670:PHE:CZ	2.41	0.54
1:C:746:PHE:HB3	1:C:756:LYS:HA	1.89	0.54
1:C:895:VAL:HG23	1:C:898:MET:HB2	1.88	0.54
1:C:1361:TYR:CD2	1:C:1363:ASN:HB3	2.42	0.54
1:C:1549:VAL:O	1:C:1607:ILE:HG12	2.07	0.54
2:D:1672:THR:HG23	2:D:1673:GLN:N	2.23	0.54
2:D:1742:GLN:HE22	2:D:1945:TYR:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1811:LEU:HD23	2:D:1811:LEU:C	2.31	0.54
2:D:1823:PHE:HD1	2:D:1846:MET:HE1	1.72	0.54
2:D:1852:THR:HG23	2:D:1853:TRP:N	2.22	0.54
2:D:1857:LYS:HD3	2:D:2050:TYR:O	2.06	0.54
2:D:1914:LYS:HG2	2:D:1918:PHE:HE1	1.71	0.54
2:D:1953:ALA:CB	2:D:1955:TRP:HZ3	2.17	0.54
2:D:2206:ARG:HD3	2:D:2216:THR:OG1	2.06	0.54
2:D:2209:VAL:HG13	2:D:2209:VAL:O	2.06	0.54
2:D:2467:VAL:HG13	2:D:2468:ASN:N	2.22	0.54
2:D:2653:ALA:HB1	2:D:2662:PHE:CE1	2.41	0.54
2:D:2996:TYR:HB2	2:D:3108:SER:HA	1.89	0.54
2:D:3214:VAL:HG12	2:D:3215:VAL:N	2.21	0.54
1:A:194:MET:HB2	1:A:205:ILE:HD11	1.89	0.54
1:A:498:VAL:O	1:A:502:LEU:HD12	2.07	0.54
1:A:515:ASP:O	1:A:518:GLU:HG2	2.07	0.54
1:A:745:ILE:HG13	1:A:800:VAL:HG22	1.88	0.54
1:A:1406:TYR:HA	1:A:1543:ARG:NH1	2.22	0.54
1:A:1467:ASP:OD2	1:A:1533:ILE:HG13	2.07	0.54
1:A:1528:LEU:O	1:A:1531:TYR:HD2	1.90	0.54
2:B:1676:LYS:CD	2:D:1817:LYS:O	2.51	0.54
2:B:2224:LEU:CD1	2:B:2266:LEU:HD21	2.38	0.54
2:B:2252:PHE:CZ	2:B:2256:PHE:CD1	2.96	0.54
2:B:2540:ALA:HB1	2:B:2547:MET:SD	2.47	0.54
2:B:2640:ARG:HB3	2:B:2643:GLU:HB2	1.88	0.54
2:B:2943:ALA:HA	2:B:3103:MET:HE1	1.87	0.54
2:B:3010:PHE:HZ	2:B:3104:ILE:HD11	1.71	0.54
1:C:210:HIS:HA	1:C:213:VAL:CG2	2.37	0.54
1:C:578:LEU:CD1	1:C:604:THR:HG21	2.27	0.54
1:C:770:LYS:HE2	1:C:770:LYS:HA	1.88	0.54
1:C:839:ARG:HG2	1:C:924:ALA:CB	2.37	0.54
1:C:1214:TYR:HE1	1:C:1231:GLN:NE2	2.05	0.54
2:D:1677:ARG:O	2:D:1680:LEU:HB3	2.07	0.54
2:D:1800:VAL:HG22	2:D:1801:HIS:N	2.21	0.54
2:D:1801:HIS:O	2:D:1803:LYS:HG2	2.07	0.54
2:D:1809:ASP:HB3	2:D:1812:PHE:HE2	1.72	0.54
2:D:2220:VAL:HG13	2:D:2266:LEU:CD1	2.37	0.54
2:D:2321:LEU:H	2:D:2321:LEU:CD2	2.20	0.54
2:D:2646:PHE:CE1	2:D:2676:TRP:HZ3	2.25	0.54
2:D:2923:LEU:CD1	2:D:2995:PRO:HG3	2.38	0.54
2:D:3287:LEU:HB2	2:D:3288:PRO:HA	1.89	0.54
1:A:94:TRP:CD2	1:A:182:ILE:HG12	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:LEU:HD22	1:A:670:PHE:CZ	2.41	0.54
1:A:705:LEU:HD22	1:A:705:LEU:N	2.22	0.54
1:A:874:ALA:HB1	1:A:881:TRP:HE1	1.71	0.54
1:A:1007:PHE:CZ	1:A:1011:TYR:CD1	2.96	0.54
1:A:1214:TYR:HE1	1:A:1231:GLN:NE2	2.05	0.54
1:A:1361:TYR:CD2	1:A:1363:ASN:HB3	2.42	0.54
2:B:1706:ALA:HB3	2:B:1866:HIS:O	2.08	0.54
2:B:1809:ASP:HB3	2:B:1812:PHE:HE2	1.72	0.54
2:B:1850:VAL:HG23	2:B:1851:HIS:N	2.23	0.54
2:B:1850:VAL:O	2:B:1854:VAL:HG22	2.06	0.54
2:B:2010:GLY:H	2:B:2013:GLU:HG3	1.72	0.54
2:B:2179:ILE:CD1	2:B:2182:ILE:HD13	2.37	0.54
2:B:2206:ARG:NH2	2:B:2218:ARG:H	2.06	0.54
2:B:2252:PHE:CE2	2:B:2256:PHE:CD1	2.95	0.54
2:B:2847:ILE:HD12	2:B:2851:LEU:HD11	1.89	0.54
2:B:3161:PRO:O	2:B:3165:VAL:HG13	2.07	0.54
2:B:3211:THR:HA	2:B:3238:GLY:CA	2.34	0.54
1:C:49:VAL:HB	1:C:52:ASP:OD1	2.07	0.54
1:C:1028:TYR:CD2	1:C:1035:TYR:CE1	2.95	0.54
1:C:1189:ARG:NE	2:D:2430:ASN:O	2.39	0.54
1:C:1324:VAL:HG13	1:C:1325:VAL:N	2.22	0.54
1:C:1589:LEU:HD13	1:C:1589:LEU:C	2.32	0.54
2:D:1913:LEU:HD13	2:D:1934:PRO:HD3	1.88	0.54
2:D:2153:TYR:CE2	2:D:2157:PHE:CE1	2.95	0.54
2:D:2252:PHE:CZ	2:D:2256:PHE:CD1	2.96	0.54
1:A:164:GLU:HB3	1:A:294:LEU:HD22	1.88	0.54
1:A:192:TYR:CD2	1:A:199:TYR:CE1	2.95	0.54
1:A:232:LYS:HE2	1:A:232:LYS:HA	1.89	0.54
1:A:486:ILE:HD11	1:A:688:PRO:CG	2.18	0.54
1:A:501:ALA:O	1:A:505:ARG:HG3	2.08	0.54
1:A:521:THR:HA	1:A:567:PHE:HD1	1.69	0.54
2:B:1819:HIS:CG	2:B:1820:HIS:N	2.74	0.54
2:B:2146:PHE:CB	2:B:2147:PRO:HD3	2.36	0.54
2:B:2217:VAL:HG12	2:B:2218:ARG:N	2.21	0.54
2:B:2432:LEU:HD22	2:B:2481:THR:HG21	1.90	0.54
2:B:2651:LEU:HD21	2:B:2785:LEU:CD2	2.38	0.54
2:B:2811:PHE:CD2	2:B:2823:ALA:HB3	2.43	0.54
2:B:3006:LEU:HD12	2:B:3006:LEU:N	2.21	0.54
1:C:232:LYS:HE2	1:C:232:LYS:HA	1.89	0.54
1:C:498:VAL:O	1:C:502:LEU:HD12	2.07	0.54
1:C:599:GLU:O	1:C:602:HIS:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:635:ASN:O	1:C:638:ARG:HB2	2.08	0.54
1:C:929:ASP:HA	1:C:1048:ASN:ND2	2.22	0.54
1:C:1556:HIS:CD2	1:C:1598:VAL:HG22	2.43	0.54
1:C:1560:THR:HG22	1:C:1561:SER:H	1.72	0.54
2:D:1712:PRO:HG2	2:D:1719:ARG:HA	1.89	0.54
2:D:1906:VAL:HG23	2:D:1907:ASN:N	2.23	0.54
2:D:1909:MET:HE1	2:D:1938:PHE:CE2	2.37	0.54
2:D:1912:PRO:C	2:D:1913:LEU:HD12	2.33	0.54
2:D:1946:ILE:HG12	2:D:1947:TYR:H	1.71	0.54
2:D:2242:LEU:HD13	2:D:2242:LEU:C	2.32	0.54
2:D:2244:LEU:HD12	2:D:2375:ILE:HG21	1.88	0.54
2:D:2577:MET:HG3	2:D:2698:TRP:HE1	0.75	0.54
2:D:2634:LEU:O	2:D:2646:PHE:HZ	1.90	0.54
2:D:2695:PRO:HA	2:D:2698:TRP:CE3	2.43	0.54
2:D:3038:ALA:HB2	2:D:3081:LEU:HG	1.89	0.54
1:A:487:PHE:CB	1:A:488:PRO:HD3	2.36	0.54
1:A:560:ARG:NH2	1:A:626:ASP:CG	2.66	0.54
1:A:676:LEU:HD23	1:A:1365:ARG:HA	1.88	0.54
1:A:802:ILE:CB	1:A:810:LEU:HD12	2.38	0.54
1:A:930:TRP:CD2	1:A:1018:ILE:HD11	2.43	0.54
1:A:1103:PHE:O	1:A:1106:PHE:HD1	1.89	0.54
1:A:1306:ILE:HG22	1:A:1307:SER:N	2.22	0.54
1:A:1560:THR:HG22	1:A:1561:SER:H	1.72	0.54
2:B:2136:VAL:HG11	2:B:2425:MET:SD	2.46	0.54
2:B:2619:ILE:HD13	2:B:2690:TYR:HD1	1.73	0.54
2:B:2777:THR:HG22	2:B:2780:LYS:HB2	1.90	0.54
2:B:2971:PRO:HB2	2:B:3113:TRP:CZ3	2.43	0.54
1:C:192:TYR:CD2	1:C:199:TYR:CE1	2.95	0.54
1:C:542:ASN:HB3	1:C:545:HIS:HB2	1.90	0.54
1:C:703:GLU:HG3	1:C:704:ASP:N	2.22	0.54
1:C:1265:LEU:HD12	1:C:1269:GLU:HB3	1.90	0.54
1:C:1277:PHE:CZ	1:C:1286:TYR:CE1	2.95	0.54
1:C:1353:PRO:HD2	1:C:1356:ILE:HD11	1.88	0.54
1:C:1406:TYR:HA	1:C:1543:ARG:HH12	1.71	0.54
1:C:1448:ASP:OD1	1:C:1450:VAL:HG23	2.07	0.54
1:C:1520:GLY:O	1:C:1521:TYR:HD1	1.85	0.54
2:D:1680:LEU:HD13	2:D:1680:LEU:C	2.31	0.54
2:D:1701:ILE:O	2:D:1704:PHE:HD1	1.90	0.54
2:D:1780:THR:HG23	2:D:1781:GLY:N	2.22	0.54
2:D:1817:LYS:HB2	2:D:1820:HIS:ND1	2.23	0.54
2:D:2224:LEU:CD1	2:D:2266:LEU:HD21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2327:ARG:CG	2:D:2331:TYR:HE1	2.21	0.54
2:D:2503:GLY:HA2	2:D:2588:VAL:HB	1.89	0.54
2:D:2777:THR:HG22	2:D:2780:LYS:HB2	1.89	0.54
2:D:2811:PHE:CD2	2:D:2823:ALA:HB3	2.43	0.54
2:D:2971:PRO:HB2	2:D:3113:TRP:CZ3	2.43	0.54
2:D:3201:PHE:HB2	2:D:3293:VAL:CG2	2.37	0.54
2:D:3338:PRO:CB	2:D:3358:PHE:HE1	2.21	0.54
1:A:452:VAL:HG23	1:A:453:ASP:N	2.23	0.54
1:A:517:THR:HG21	1:A:707:PHE:CZ	2.43	0.54
1:A:749:THR:HG23	1:A:752:SER:N	2.23	0.54
1:A:810:LEU:HD11	1:A:814:LEU:CG	2.38	0.54
1:A:906:ARG:HG3	1:A:1050:ASP:OD2	2.08	0.54
1:A:1092:THR:HG23	1:A:1093:ASP:N	2.23	0.54
1:A:1155:SER:HB2	1:A:1217:PHE:O	2.07	0.54
1:A:1185:TRP:CZ3	1:A:1187:TYR:CE2	2.95	0.54
1:A:1202:LEU:HD12	1:A:1204:LEU:HD12	1.88	0.54
1:A:1500:ASP:O	1:A:1503:THR:HG22	2.07	0.54
1:A:1589:LEU:HD13	1:A:1589:LEU:C	2.32	0.54
2:B:1843:PHE:HE1	2:B:1884:ILE:CG1	2.16	0.54
2:B:1852:THR:HG23	2:B:1853:TRP:N	2.22	0.54
2:B:1922:TYR:CD1	2:D:2195:TRP:CB	2.72	0.54
2:B:2173:TRP:HB2	2:B:2289:ILE:HG21	1.88	0.54
2:B:2366:MET:HB2	2:B:2371:ILE:CG2	2.37	0.54
2:B:3038:ALA:HB2	2:B:3081:LEU:HG	1.90	0.54
2:B:3319:VAL:C	2:B:3320:VAL:HG23	2.32	0.54
2:B:3326:ILE:HD11	2:B:3393:VAL:HG21	1.89	0.54
1:C:501:ALA:O	1:C:505:ARG:HG3	2.08	0.54
1:C:769:MET:HE2	1:C:770:LYS:H	1.73	0.54
1:C:1219:LEU:HD12	1:C:1219:LEU:C	2.32	0.54
2:D:3033:ARG:HB2	2:D:3082:ILE:O	2.06	0.54
2:D:3326:ILE:HD11	2:D:3393:VAL:HG21	1.89	0.54
1:A:302:ARG:HB2	1:A:304:PHE:CE1	2.42	0.54
1:A:498:VAL:HG11	1:A:630:TYR:HD1	1.71	0.54
2:B:1674:LEU:HD11	2:B:1755:PRO:CG	2.37	0.54
2:B:2242:LEU:HD13	2:B:2242:LEU:C	2.32	0.54
2:B:3388:ASN:OD1	2:B:3390:ARG:HG3	2.08	0.54
1:C:771:TRP:CZ3	1:C:773:PHE:CE2	2.95	0.54
1:C:930:TRP:CD2	1:C:1018:ILE:HD11	2.43	0.54
1:C:982:GLN:O	1:C:982:GLN:HG3	2.08	0.54
1:C:1242:HIS:HB3	1:C:1249:GLN:NE2	2.23	0.54
1:C:1467:ASP:OD2	1:C:1533:ILE:HG13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2680:LEU:HD12	2:D:2681:THR:CA	2.38	0.54
1:A:70:ARG:NH2	1:A:270:TYR:HB3	2.21	0.54
1:A:542:ASN:HB3	1:A:545:HIS:HB2	1.90	0.54
1:A:560:ARG:HD3	1:A:609:THR:CB	2.23	0.54
1:A:748:LYS:HD3	1:A:754:GLN:NE2	2.23	0.54
1:A:839:ARG:HG2	1:A:924:ALA:CB	2.37	0.54
1:A:1265:LEU:HD12	1:A:1269:GLU:HB3	1.90	0.54
1:A:1549:VAL:O	1:A:1607:ILE:HG12	2.07	0.54
2:B:1724:VAL:CG1	2:B:1729:THR:HB	2.37	0.54
2:B:1780:THR:HG23	2:B:1781:GLY:N	2.22	0.54
2:B:1801:HIS:O	2:B:1803:LYS:HG2	2.07	0.54
2:B:2145:THR:OG1	2:B:2321:LEU:HB3	2.08	0.54
2:B:2220:VAL:HG13	2:B:2266:LEU:CD1	2.37	0.54
2:B:2256:PHE:HZ	2:B:2294:VAL:HG22	1.69	0.54
2:B:2657:THR:OG1	2:B:2720:LEU:HD13	2.06	0.54
2:B:2923:LEU:CD1	2:B:2995:PRO:HG3	2.38	0.54
2:B:3315:PRO:HB3	2:B:3316:PRO:HD2	1.90	0.54
1:C:2:ASN:HD22	1:C:276:ASP:HB2	1.72	0.54
1:C:164:GLU:HB3	1:C:294:LEU:HD22	1.88	0.54
1:C:250:TRP:HE3	1:C:252:ASP:HB2	1.66	0.54
1:C:446:PHE:HB2	1:C:505:ARG:HD3	1.89	0.54
1:C:881:TRP:CZ3	1:C:885:PRO:HB3	2.43	0.54
2:D:1674:LEU:HD11	2:D:1755:PRO:CG	2.37	0.54
2:D:1718:LYS:HG3	2:D:1718:LYS:O	2.06	0.54
2:D:1994:ARG:HG3	2:D:1995:THR:N	2.23	0.54
2:D:2403:ILE:HG23	2:D:2403:ILE:O	2.08	0.54
2:D:2538:ILE:CB	2:D:2577:MET:SD	2.95	0.54
2:D:2619:ILE:HD13	2:D:2690:TYR:HD1	1.73	0.54
2:D:2651:LEU:HD21	2:D:2785:LEU:CD2	2.38	0.54
2:D:2792:ASP:OD1	2:D:2891:GLY:O	2.24	0.54
2:D:3075:HIS:HB2	2:D:3109:LEU:HD11	1.89	0.54
2:D:3205:VAL:HG13	2:D:3291:ILE:HD12	1.89	0.54
2:D:3315:PRO:HB3	2:D:3316:PRO:HD2	1.90	0.54
1:A:101:LEU:N	1:A:101:LEU:HD12	2.23	0.54
1:A:208:LEU:HD12	1:A:208:LEU:N	2.22	0.54
1:A:319:PHE:CD2	1:A:337:LYS:HE3	2.32	0.54
1:A:439:LEU:HB3	1:A:544:PHE:CZ	2.42	0.54
1:A:599:GLU:O	1:A:602:HIS:HB3	2.08	0.54
1:A:1084:PHE:HA	1:A:1091:ASN:HD22	1.71	0.54
1:A:1394:LEU:H	1:A:1394:LEU:HD22	1.73	0.54
2:B:1823:PHE:HD1	2:B:1846:MET:HE1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1909:MET:HE1	2:B:1938:PHE:CE2	2.37	0.54
2:B:2634:LEU:O	2:B:2646:PHE:HZ	1.90	0.54
2:B:3209:ILE:HG12	2:B:3211:THR:O	2.08	0.54
2:B:3315:PRO:HB3	2:D:3350:LYS:NZ	2.22	0.54
1:C:101:LEU:N	1:C:101:LEU:HD12	2.23	0.54
1:C:698:LEU:CG	1:C:700:TYR:HD1	2.21	0.54
1:C:745:ILE:HG13	1:C:800:VAL:HG22	1.88	0.54
2:D:3124:VAL:HG13	2:D:3124:VAL:O	2.08	0.54
2:D:3200:VAL:CG1	2:D:3255:THR:HA	2.36	0.54
1:A:385:SER:HB2	1:A:391:LEU:HD11	1.89	0.54
1:A:446:PHE:HB2	1:A:505:ARG:NE	2.22	0.54
1:A:676:LEU:N	1:A:676:LEU:CD2	2.71	0.54
1:A:724:GLN:HE21	1:A:828:LYS:CG	2.20	0.54
1:A:984:GLU:HG3	1:A:985:PHE:N	2.23	0.54
1:A:1143:PHE:HD2	1:A:1193:TYR:C	2.16	0.54
1:A:1159:PHE:O	1:A:1171:ALA:HB3	2.08	0.54
1:A:1289:ILE:HA	1:A:1292:PHE:CE2	2.43	0.54
1:A:1313:MET:CE	1:A:1595:MET:HE3	2.38	0.54
1:A:1476:TYR:CE2	1:A:1477:ARG:HB3	2.41	0.54
1:A:1618:LEU:HG	2:B:1906:VAL:CG1	2.37	0.54
2:B:1994:ARG:HG3	2:B:1995:THR:N	2.23	0.54
2:B:2176:THR:CG2	2:B:2236:LEU:HD12	2.17	0.54
2:B:2307:LYS:CD	2:B:2369:HIS:HA	2.37	0.54
2:B:2695:PRO:HA	2:B:2698:TRP:HZ3	1.72	0.54
2:B:3027:ILE:O	2:B:3028:ASN:HB2	2.08	0.54
2:B:3344:SER:HB3	2:B:3348:MET:HB2	1.89	0.54
1:C:128:ILE:HG22	1:C:131:LEU:H	1.72	0.54
1:C:194:MET:HB2	1:C:205:ILE:HD11	1.89	0.54
1:C:322:VAL:HG13	1:C:322:VAL:O	2.08	0.54
1:C:498:VAL:HG11	1:C:511:ILE:HD11	1.76	0.54
1:C:517:THR:HG21	1:C:707:PHE:CZ	2.43	0.54
1:C:560:ARG:NH2	1:C:626:ASP:CG	2.66	0.54
1:C:729:TYR:CD1	1:C:821:ILE:HD11	2.43	0.54
1:C:906:ARG:HG3	1:C:1050:ASP:OD2	2.08	0.54
1:C:1379:ILE:HD13	1:C:1444:TYR:CE1	2.43	0.54
1:C:1528:LEU:O	1:C:1531:TYR:HD2	1.90	0.54
2:D:1706:ALA:HB3	2:D:1866:HIS:O	2.08	0.54
2:D:1724:VAL:CG1	2:D:1729:THR:HB	2.37	0.54
2:D:1760:THR:HG21	2:D:1952:PHE:CZ	2.42	0.54
2:D:2036:ARG:H	2:D:2039:GLU:HG3	1.71	0.54
2:D:2206:ARG:NH2	2:D:2218:ARG:H	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3209:ILE:HG12	2:D:3211:THR:O	2.08	0.54
2:D:3388:ASN:OD1	2:D:3390:ARG:HG3	2.08	0.54
1:A:194:MET:HA	1:A:200:THR:OG1	2.08	0.53
1:A:322:VAL:HG23	1:A:379:VAL:CG1	2.37	0.53
1:A:1292:PHE:O	1:A:1308:CYS:HB2	2.08	0.53
1:A:1319:TRP:CA	1:A:1490:LEU:HD21	2.38	0.53
1:A:1453:LEU:HD12	1:A:1453:LEU:H	1.73	0.53
1:A:1556:HIS:CD2	1:A:1598:VAL:HG22	2.43	0.53
1:A:1656:HIS:C	2:B:1898:SER:HB2	2.33	0.53
2:B:1701:ILE:O	2:B:1704:PHE:HD1	1.90	0.53
2:B:2467:VAL:HG13	2:B:2468:ASN:N	2.22	0.53
2:B:2964:VAL:HG11	2:B:2969:ILE:CD1	2.38	0.53
2:B:3338:PRO:CB	2:B:3358:PHE:HE1	2.21	0.53
1:C:439:LEU:HB3	1:C:544:PHE:CZ	2.42	0.53
1:C:498:VAL:HG11	1:C:630:TYR:HD1	1.72	0.53
1:C:747:ILE:HG23	1:C:796:PHE:HD2	1.73	0.53
1:C:810:LEU:HD11	1:C:814:LEU:CG	2.38	0.53
1:C:1289:ILE:O	1:C:1292:PHE:HD2	1.92	0.53
1:C:1318:HIS:CB	1:C:1509:PRO:HB3	2.38	0.53
1:C:1404:VAL:HA	1:C:1423:LEU:HD22	1.90	0.53
1:C:1542:GLU:HA	1:C:1545:ARG:CD	2.38	0.53
1:C:1575:HIS:CB	2:D:2783:HIS:CB	2.87	0.53
1:C:1646:ILE:HG21	2:D:1906:VAL:CG2	2.38	0.53
2:D:1946:ILE:HG12	2:D:1947:TYR:N	2.23	0.53
2:D:2127:LYS:NZ	2:D:2131:SER:HB2	2.22	0.53
2:D:2508:ILE:HD12	2:D:2699:LEU:HD13	1.90	0.53
2:D:2634:LEU:CD1	2:D:2676:TRP:HE3	2.14	0.53
2:D:2964:VAL:HG11	2:D:2969:ILE:CD1	2.38	0.53
1:A:89:LEU:O	1:A:89:LEU:CG	2.55	0.53
1:A:146:LYS:HZ1	1:A:148:LYS:CE	2.21	0.53
1:A:162:ALA:HB2	1:A:174:GLN:CB	2.37	0.53
1:A:629:PHE:CD2	1:A:633:HIS:CE1	2.96	0.53
1:A:635:ASN:O	1:A:638:ARG:HB2	2.08	0.53
1:A:929:ASP:HA	1:A:1048:ASN:ND2	2.23	0.53
1:A:1158:LYS:CB	1:A:1173:GLU:HG2	2.38	0.53
1:A:1289:ILE:O	1:A:1292:PHE:HD2	1.91	0.53
2:B:2144:PRO:HG2	2:B:2318:ALA:CB	2.27	0.53
2:B:2200:MET:HG2	2:B:2201:PRO:N	2.23	0.53
2:B:2427:TRP:CZ3	2:B:2429:TYR:CE2	2.95	0.53
2:B:2624:VAL:HG11	2:B:2683:TYR:CD1	2.44	0.53
1:C:576:THR:HG22	1:C:579:PHE:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:724:GLN:HE21	1:C:828:LYS:CG	2.20	0.53
1:C:1007:PHE:CZ	1:C:1011:TYR:CD1	2.96	0.53
1:C:1394:LEU:HD22	1:C:1394:LEU:H	1.73	0.53
2:D:1850:VAL:HG23	2:D:1851:HIS:N	2.23	0.53
2:D:2220:VAL:CG1	2:D:2266:LEU:HD11	2.37	0.53
2:D:2221:GLN:H	2:D:2266:LEU:CD1	2.22	0.53
2:D:2389:LEU:HD13	2:D:2478:HIS:HB2	1.90	0.53
2:D:3083:GLY:HA3	2:D:3091:SER:H	1.72	0.53
1:A:2:ASN:HD22	1:A:276:ASP:HB2	1.72	0.53
1:A:64:THR:OG1	1:A:240:LEU:HB3	2.09	0.53
1:A:213:VAL:HG23	1:A:214:ASP:N	2.24	0.53
1:A:486:ILE:CD1	1:A:662:LEU:HG	2.30	0.53
1:A:771:TRP:CZ3	1:A:773:PHE:CE2	2.95	0.53
1:A:1242:HIS:HB3	1:A:1249:GLN:NE2	2.23	0.53
1:A:1345:TRP:CZ3	1:A:1426:ALA:HB3	2.42	0.53
2:B:1712:PRO:HG2	2:B:1719:ARG:HA	1.89	0.53
2:B:1761:LEU:HD12	2:B:1762:PRO:CD	2.31	0.53
2:B:2221:GLN:H	2:B:2266:LEU:CD1	2.22	0.53
2:B:2388:PHE:C	2:B:2432:LEU:HD12	2.32	0.53
2:B:3201:PHE:HB2	2:B:3293:VAL:CG2	2.37	0.53
2:B:3206:LEU:H	2:B:3206:LEU:CD2	2.17	0.53
2:B:3287:LEU:HB2	2:B:3288:PRO:HA	1.89	0.53
1:C:64:THR:OG1	1:C:240:LEU:HB3	2.09	0.53
1:C:442:ALA:HB1	1:C:505:ARG:HB3	1.90	0.53
1:C:481:VAL:HG23	1:C:481:VAL:O	2.08	0.53
1:C:496:THR:HG21	1:C:698:LEU:HD23	1.91	0.53
1:C:804:GLU:HG2	1:C:805:VAL:N	2.23	0.53
1:C:964:ILE:HG22	1:C:966:THR:N	2.23	0.53
1:C:1280:ILE:HD11	1:C:1330:ALA:HB1	1.88	0.53
1:C:1345:TRP:CZ2	1:C:1400:PHE:CE2	2.94	0.53
2:D:1770:LEU:HD21	2:D:1876:ILE:CG1	2.34	0.53
2:D:2010:GLY:H	2:D:2013:GLU:HG3	1.72	0.53
2:D:2115:PHE:C	2:D:2118:ILE:HG22	2.33	0.53
2:D:2140:ILE:HG13	2:D:2143:MET:HG3	1.90	0.53
2:D:2258:VAL:HG13	2:D:2259:MET:N	2.22	0.53
2:D:2622:LEU:HD13	2:D:2622:LEU:C	2.34	0.53
2:D:2847:ILE:HD12	2:D:2851:LEU:HD11	1.89	0.53
1:A:481:VAL:HG23	1:A:481:VAL:O	2.08	0.53
1:A:1189:ARG:NE	2:B:2431:ARG:HG2	2.24	0.53
1:A:1265:LEU:HD21	1:A:1341:PRO:HB3	1.91	0.53
1:A:1379:ILE:HD13	1:A:1444:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1448:ASP:OD1	1:A:1450:VAL:HG23	2.07	0.53
1:A:1542:GLU:HA	1:A:1545:ARG:CD	2.38	0.53
1:A:1646:ILE:HG22	2:B:1907:ASN:CG	2.34	0.53
2:B:1770:LEU:CD2	2:B:1873:LEU:HA	2.38	0.53
2:B:1906:VAL:HG23	2:B:1907:ASN:N	2.23	0.53
2:B:2026:ILE:HD12	2:B:2030:LEU:CD1	2.38	0.53
2:B:2140:ILE:HG13	2:B:2143:MET:HG3	1.90	0.53
2:B:2344:VAL:HG13	2:B:2347:ASP:H	1.74	0.53
2:B:2542:HIS:CE1	2:B:2688:LEU:HD12	2.35	0.53
1:C:194:MET:HA	1:C:200:THR:OG1	2.08	0.53
1:C:440:ARG:HH22	1:C:540:HIS:HD2	1.57	0.53
1:C:853:LEU:HB3	1:C:959:TRP:CE2	2.44	0.53
1:C:1185:TRP:CZ3	1:C:1187:TYR:CE2	2.95	0.53
2:D:2172:TYR:HD2	2:D:2293:PHE:HD1	1.53	0.53
2:D:2200:MET:HG2	2:D:2201:PRO:N	2.23	0.53
2:D:2695:PRO:HA	2:D:2698:TRP:HZ3	1.72	0.53
2:D:3020:PHE:O	2:D:3021:LYS:HG3	2.07	0.53
2:D:3078:VAL:HG11	2:D:3105:HIS:CE1	2.44	0.53
1:A:1365:ARG:HD3	1:A:1365:ARG:N	2.21	0.53
1:A:1495:LYS:HD2	1:A:1495:LYS:N	2.24	0.53
1:A:1507:ALA:O	1:A:1509:PRO:HD3	2.09	0.53
1:A:1604:LYS:HZ1	1:A:1647:LEU:HD23	1.71	0.53
1:A:1655:ALA:O	2:B:1898:SER:HB2	2.09	0.53
2:B:1817:LYS:HB2	2:B:1820:HIS:ND1	2.23	0.53
2:B:2168:VAL:HG22	2:B:2169:ALA:H	1.71	0.53
2:B:2172:TYR:HD2	2:B:2293:PHE:HD1	1.53	0.53
1:C:352:TRP:HZ3	1:C:354:PHE:CE2	2.27	0.53
1:C:482:HIS:HA	1:C:487:PHE:CD2	2.32	0.53
1:C:872:LEU:HA	1:C:875:PHE:CD1	2.44	0.53
1:C:1313:MET:CE	1:C:1595:MET:HE3	2.38	0.53
1:C:1477:ARG:HD3	1:C:1514:GLU:HB3	1.90	0.53
2:D:2172:TYR:HB2	2:D:2293:PHE:CB	2.39	0.53
2:D:2351:TYR:O	2:D:2354:LEU:HB2	2.09	0.53
2:D:2569:TRP:CB	2:D:2736:LEU:HD13	2.38	0.53
2:D:2624:VAL:HG11	2:D:2683:TYR:CD1	2.44	0.53
2:D:2729:ILE:HG22	2:D:2733:LYS:HZ2	1.72	0.53
1:A:160:LEU:HD11	1:A:294:LEU:CD2	2.39	0.53
1:A:602:HIS:HD1	1:A:636:VAL:HG21	1.74	0.53
1:A:1349:ILE:O	1:A:1349:ILE:HG13	2.08	0.53
1:A:1406:TYR:HA	1:A:1543:ARG:CZ	2.39	0.53
2:B:1761:LEU:CD1	2:B:1762:PRO:HD2	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1912:PRO:C	2:B:1913:LEU:HD12	2.33	0.53
2:B:1946:ILE:HG12	2:B:1947:TYR:N	2.23	0.53
2:B:2156:GLN:NE2	2:B:2156:GLN:HA	2.23	0.53
2:B:2508:ILE:HD12	2:B:2699:LEU:HD13	1.90	0.53
2:B:2542:HIS:HB3	2:B:2692:THR:HB	1.90	0.53
2:B:2695:PRO:HA	2:B:2698:TRP:CE3	2.42	0.53
2:B:2858:TYR:HE1	2:B:2886:VAL:HG12	1.73	0.53
1:C:544:PHE:HD1	1:C:631:PHE:HZ	1.56	0.53
1:C:676:LEU:N	1:C:676:LEU:CD2	2.71	0.53
1:C:748:LYS:HD3	1:C:754:GLN:NE2	2.23	0.53
1:C:909:THR:HG23	1:C:910:VAL:N	2.24	0.53
1:C:1265:LEU:HD21	1:C:1341:PRO:HB3	1.91	0.53
1:C:1349:ILE:HG13	1:C:1349:ILE:O	2.08	0.53
1:C:1467:ASP:HB3	1:C:1470:ARG:HH12	1.73	0.53
2:D:1883:ARG:O	2:D:1887:ILE:HG12	2.08	0.53
2:D:2622:LEU:CG	2:D:2683:TYR:HE1	2.20	0.53
2:D:2901:ASP:CG	2:D:2902:HIS:H	2.17	0.53
2:D:3311:ASP:H	2:D:3387:ASN:CB	2.22	0.53
2:D:3312:VAL:CG1	2:D:3389:LEU:HD23	2.37	0.53
2:D:3319:VAL:C	2:D:3320:VAL:HG23	2.32	0.53
1:A:322:VAL:HG13	1:A:322:VAL:O	2.08	0.53
1:A:549:ILE:HG23	1:A:551:PHE:CE1	2.44	0.53
1:A:583:LEU:HD21	1:A:719:ILE:HG12	1.91	0.53
1:A:982:GLN:HG3	1:A:982:GLN:O	2.08	0.53
1:A:1262:ILE:HD12	1:A:1353:PRO:HB3	1.91	0.53
1:A:1280:ILE:HD11	1:A:1330:ALA:HB1	1.88	0.53
1:A:1310:VAL:HG22	1:A:1319:TRP:HB2	1.89	0.53
1:A:1437:TYR:HD2	1:A:1444:TYR:CE1	2.27	0.53
1:A:1457:THR:O	1:A:1460:ARG:HG2	2.09	0.53
1:A:1491:GLN:NE2	1:A:1494:ASP:HB2	2.24	0.53
1:A:1554:LEU:HG	1:A:1602:LEU:HD21	1.91	0.53
2:B:1672:THR:HG23	2:B:1673:GLN:N	2.23	0.53
2:B:2243:ALA:CA	2:B:2246:GLN:HE21	2.18	0.53
2:B:2622:LEU:HD13	2:B:2622:LEU:C	2.34	0.53
2:B:2741:ASP:CB	2:B:2743:ILE:HG22	2.38	0.53
2:B:2848:THR:HG22	2:B:2852:LYS:HE3	1.91	0.53
2:B:2946:HIS:CE1	2:B:3093:LEU:HD12	2.44	0.53
2:B:3020:PHE:C	2:B:3021:LYS:HG3	2.34	0.53
2:B:3075:HIS:HB2	2:B:3109:LEU:HD11	1.89	0.53
2:B:3124:VAL:HG13	2:B:3124:VAL:O	2.08	0.53
2:B:3136:ILE:HD12	2:B:3136:ILE:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:226:LEU:HD23	1:C:291:LYS:HB2	1.90	0.53
1:C:984:GLU:HG3	1:C:985:PHE:N	2.23	0.53
1:C:1244:GLU:H	1:C:1244:GLU:CD	2.17	0.53
1:C:1507:ALA:O	1:C:1509:PRO:HD3	2.09	0.53
2:D:1801:HIS:HB2	2:D:1803:LYS:NZ	2.24	0.53
2:D:2026:ILE:HD12	2:D:2030:LEU:CD1	2.38	0.53
2:D:2103:LEU:CD2	2:D:2161:LEU:HD11	2.31	0.53
2:D:2362:GLU:HG3	2:D:2366:MET:O	2.09	0.53
2:D:2471:VAL:HG12	2:D:2472:LEU:N	2.24	0.53
2:D:3308:ILE:HG12	2:D:3331:VAL:HG11	1.90	0.53
2:D:3362:GLU:C	2:D:3363:LEU:HD22	2.34	0.53
1:A:130:PHE:HD1	1:A:202:TYR:HH	1.57	0.53
1:A:162:ALA:HA	1:A:165:GLN:NE2	2.24	0.53
1:A:615:PHE:CD1	1:A:622:TYR:CZ	2.97	0.53
1:A:1171:ALA:HA	1:A:1198:LYS:CD	2.39	0.53
2:B:2175:TRP:HH2	2:B:2266:LEU:HD22	1.73	0.53
2:B:2220:VAL:CG1	2:B:2266:LEU:HD11	2.37	0.53
2:B:2258:VAL:HG13	2:B:2259:MET:N	2.22	0.53
2:B:2403:ILE:HG23	2:B:2403:ILE:O	2.08	0.53
2:B:2651:LEU:HD13	2:B:2651:LEU:C	2.33	0.53
2:B:2786:GLU:OE1	2:B:2786:GLU:HA	2.09	0.53
2:B:2959:LYS:HZ1	2:B:3240:LYS:HE2	1.73	0.53
2:B:2981:PHE:CG	2:B:3103:MET:HB3	2.44	0.53
2:B:3362:GLU:C	2:B:3363:LEU:HD22	2.34	0.53
1:C:319:PHE:CD2	1:C:337:LYS:HE3	2.32	0.53
1:C:549:ILE:HG23	1:C:551:PHE:CE1	2.44	0.53
1:C:802:ILE:CB	1:C:810:LEU:HD12	2.38	0.53
1:C:973:ARG:HD2	1:C:1022:VAL:HG13	1.90	0.53
1:C:1143:PHE:HD2	1:C:1193:TYR:C	2.16	0.53
1:C:1155:SER:HB2	1:C:1217:PHE:O	2.07	0.53
1:C:1406:TYR:HA	1:C:1543:ARG:CZ	2.39	0.53
1:C:1437:TYR:HD2	1:C:1444:TYR:CE1	2.27	0.53
1:C:1453:LEU:HD12	1:C:1453:LEU:H	1.73	0.53
1:C:1542:GLU:HG3	1:C:1545:ARG:HD3	1.90	0.53
1:C:1567:PHE:CD1	1:C:1583:ALA:HA	2.44	0.53
2:D:2106:LEU:HD11	2:D:2161:LEU:CD2	2.39	0.53
2:D:2118:ILE:CD1	2:D:2156:GLN:HG3	2.39	0.53
2:D:2156:GLN:NE2	2:D:2156:GLN:HA	2.23	0.53
2:D:2308:ARG:HH21	2:D:2375:ILE:CD1	2.22	0.53
2:D:2386:ALA:O	2:D:2434:LYS:HA	2.07	0.53
2:D:2946:HIS:CE1	2:D:3093:LEU:HD12	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2981:PHE:CG	2:D:3103:MET:HB3	2.44	0.53
2:D:3010:PHE:HZ	2:D:3104:ILE:HD11	1.71	0.53
2:D:3344:SER:HB3	2:D:3348:MET:HB2	1.89	0.53
1:A:552:GLU:HG3	1:A:554:ASN:HB2	1.91	0.53
1:A:602:HIS:ND1	1:A:632:HIS:NE2	2.57	0.53
1:A:698:LEU:CG	1:A:700:TYR:HD1	2.21	0.53
1:A:729:TYR:CD1	1:A:821:ILE:HD11	2.43	0.53
1:A:769:MET:HE2	1:A:770:LYS:H	1.73	0.53
1:A:895:VAL:HG23	1:A:898:MET:HB2	1.89	0.53
1:A:930:TRP:CZ3	1:A:991:ILE:HD13	2.41	0.53
1:A:1214:TYR:O	1:A:1226:LYS:HG3	2.09	0.53
1:A:1219:LEU:HD12	1:A:1219:LEU:C	2.32	0.53
2:B:2106:LEU:HD11	2:B:2161:LEU:CD2	2.39	0.53
2:B:2118:ILE:CD1	2:B:2156:GLN:HG3	2.39	0.53
2:B:2362:GLU:HG3	2:B:2366:MET:O	2.09	0.53
2:B:3078:VAL:HG11	2:B:3105:HIS:CE1	2.44	0.53
2:B:3132:CYS:HB2	2:B:3396:ASP:OD2	2.09	0.53
1:C:86:THR:HG23	1:C:87:SER:N	2.24	0.53
1:C:748:LYS:CB	1:C:754:GLN:HG2	2.39	0.53
1:C:1156:LEU:HG	1:C:1157:VAL:N	2.23	0.53
1:C:1158:LYS:CB	1:C:1173:GLU:HG2	2.38	0.53
1:C:1214:TYR:O	1:C:1226:LYS:HG3	2.09	0.53
2:D:1804:ARG:HH11	2:D:1873:LEU:HD22	1.73	0.53
2:D:2267:VAL:HG21	2:D:2275:LEU:CG	2.31	0.53
2:D:2432:LEU:HD22	2:D:2481:THR:HG21	1.90	0.53
2:D:2561:HIS:CE1	2:D:2688:LEU:HD11	2.44	0.53
2:D:2619:ILE:HD13	2:D:2690:TYR:CD1	2.44	0.53
2:D:2800:LEU:CD1	2:D:2828:ILE:HD11	2.33	0.53
2:D:3349:PHE:CE1	2:D:3375:PHE:CG	2.97	0.53
1:A:70:ARG:NH1	1:A:217:PHE:HD2	2.07	0.53
1:A:443:PHE:HD1	1:A:543:PRO:CB	2.22	0.53
1:A:446:PHE:HB2	1:A:505:ARG:HD3	1.89	0.53
1:A:496:THR:HG21	1:A:698:LEU:HD23	1.91	0.53
1:A:576:THR:HG22	1:A:579:PHE:HB2	1.90	0.53
1:A:845:LEU:HD11	1:A:926:PRO:HG2	1.89	0.53
1:A:964:ILE:HG22	1:A:966:THR:N	2.23	0.53
1:A:1257:ARG:NE	1:A:1332:LEU:HD21	2.23	0.53
1:A:1277:PHE:CE1	1:A:1286:TYR:CE1	2.97	0.53
1:A:1515:TYR:HH	1:A:1521:TYR:CB	2.14	0.53
2:B:1695:SER:HB2	2:D:2195:TRP:HD1	1.74	0.53
2:B:1786:ASN:OD1	2:B:1788:PHE:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2172:TYR:HB2	2:B:2293:PHE:CB	2.39	0.53
2:B:2195:TRP:C	2:D:1922:TYR:CD1	2.84	0.53
2:B:2239:GLN:HG3	2:B:2255:GLN:NE2	2.24	0.53
2:B:2389:LEU:HD13	2:B:2478:HIS:HB2	1.90	0.53
2:B:2619:ILE:HD13	2:B:2690:TYR:CD1	2.44	0.53
2:B:2673:ILE:HG13	2:B:2700:HIS:CE1	2.44	0.53
2:B:3051:ILE:HG23	2:B:3074:LEU:HD21	1.91	0.53
2:B:3308:ILE:HG12	2:B:3331:VAL:HG11	1.90	0.53
2:B:3312:VAL:CG1	2:B:3389:LEU:HD23	2.37	0.53
2:B:3387:ASN:C	2:B:3387:ASN:HD22	2.16	0.53
1:C:164:GLU:HG3	1:C:164:GLU:O	2.09	0.53
1:C:521:THR:HA	1:C:567:PHE:HD1	1.68	0.53
1:C:600:ILE:HG23	1:C:601:THR:N	2.24	0.53
1:C:1027:PRO:HG3	1:C:1220:LYS:NZ	2.24	0.53
1:C:1257:ARG:NE	1:C:1332:LEU:HD21	2.23	0.53
1:C:1319:TRP:CA	1:C:1490:LEU:HD21	2.38	0.53
1:C:1345:TRP:CE3	1:C:1400:PHE:HD2	2.28	0.53
1:C:1395:PHE:CZ	1:C:1430:LEU:CG	2.92	0.53
2:D:1843:PHE:HE1	2:D:1884:ILE:CG1	2.16	0.53
2:D:2157:PHE:HB2	2:D:2288:PHE:CD2	2.44	0.53
2:D:2652:LEU:HD23	2:D:2665:GLN:OE1	2.09	0.53
2:D:2786:GLU:HA	2:D:2786:GLU:OE1	2.09	0.53
2:D:2848:THR:HG22	2:D:2852:LYS:HE3	1.91	0.53
2:D:3333:GLU:OE1	2:D:3333:GLU:HA	2.09	0.53
1:A:464:LEU:HA	1:A:465:PRO:C	2.34	0.52
1:A:747:ILE:HG23	1:A:796:PHE:HD2	1.73	0.52
1:A:821:ILE:HD12	1:A:821:ILE:C	2.34	0.52
1:A:842:VAL:HG13	1:A:843:ASP:N	2.24	0.52
1:A:881:TRP:CZ3	1:A:885:PRO:HB3	2.43	0.52
1:A:1192:LYS:HZ1	1:A:1235:ILE:HD11	1.74	0.52
1:A:1244:GLU:H	1:A:1244:GLU:CD	2.16	0.52
1:A:1491:GLN:HB3	1:A:1492:PRO:HA	1.92	0.52
1:A:1567:PHE:HE1	1:A:1610:ALA:HB1	1.74	0.52
1:A:1618:LEU:CG	2:B:1906:VAL:CG1	2.74	0.52
2:B:1801:HIS:HB2	2:B:1803:LYS:NZ	2.24	0.52
2:B:1883:ARG:O	2:B:1887:ILE:HG12	2.08	0.52
2:B:2670:HIS:CE1	2:B:2704:THR:HG21	2.44	0.52
1:C:427:ASN:HB3	1:C:513:TYR:CE2	2.42	0.52
1:C:464:LEU:HD13	1:C:464:LEU:C	2.34	0.52
1:C:964:ILE:HG12	1:C:1038:PHE:CZ	2.44	0.52
1:C:1249:GLN:CG	1:C:1476:TYR:CG	2.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1289:ILE:HA	1:C:1292:PHE:CE2	2.43	0.52
2:D:2542:HIS:HB3	2:D:2692:THR:HB	1.91	0.52
2:D:3020:PHE:CE2	2:D:3021:LYS:HD2	2.44	0.52
2:D:3305:GLU:HG3	2:D:3319:VAL:HG11	1.90	0.52
1:A:891:PHE:CB	1:A:1183:MET:CG	2.87	0.52
1:A:1136:ILE:HG23	1:A:1137:LYS:N	2.24	0.52
1:A:1310:VAL:HG23	1:A:1310:VAL:O	2.08	0.52
1:A:1324:VAL:HG13	1:A:1325:VAL:N	2.22	0.52
1:A:1566:VAL:HG22	1:A:1626:ILE:CA	2.39	0.52
2:B:1808:ARG:HE	2:B:1810:ARG:CB	2.21	0.52
2:B:2124:LEU:HA	2:B:2125:PRO:C	2.34	0.52
2:B:2232:GLU:OE1	2:B:2232:GLU:HA	2.09	0.52
2:B:2561:HIS:CE1	2:B:2688:LEU:HD11	2.44	0.52
2:B:2605:PHE:CE2	2:B:2614:PHE:CD2	2.97	0.52
2:B:2999:TRP:CZ3	2:B:3051:ILE:HG21	2.44	0.52
2:B:3362:GLU:OE1	2:B:3362:GLU:HA	2.09	0.52
1:C:160:LEU:HD11	1:C:294:LEU:CD2	2.39	0.52
1:C:213:VAL:HG23	1:C:214:ASP:N	2.24	0.52
1:C:248:PHE:HB3	1:C:258:THR:CG2	2.34	0.52
1:C:508:THR:HG23	1:C:509:ILE:N	2.23	0.52
1:C:1075:THR:O	2:D:2456:GLU:HB3	2.09	0.52
1:C:1159:PHE:O	1:C:1171:ALA:HB3	2.08	0.52
1:C:1310:VAL:HG23	1:C:1310:VAL:O	2.08	0.52
2:D:1770:LEU:CD2	2:D:1873:LEU:HA	2.39	0.52
2:D:1808:ARG:HE	2:D:1810:ARG:CB	2.21	0.52
2:D:2045:VAL:HG12	2:D:2046:THR:N	2.24	0.52
2:D:2232:GLU:OE1	2:D:2232:GLU:HA	2.09	0.52
2:D:2257:GLU:O	2:D:2260:HIS:HB3	2.09	0.52
2:D:2605:PHE:CE2	2:D:2614:PHE:CD2	2.97	0.52
2:D:3340:LEU:HD22	2:D:3377:THR:HG21	1.92	0.52
1:A:168:PHE:HE1	1:A:217:PHE:CZ	2.28	0.52
1:A:362:LEU:O	1:A:366:VAL:HG23	2.09	0.52
1:A:508:THR:HG23	1:A:509:ILE:N	2.23	0.52
1:A:940:LEU:HA	1:A:946:TYR:OH	2.09	0.52
1:A:1146:PHE:N	1:A:1190:VAL:HG13	2.25	0.52
1:A:1318:HIS:CB	1:A:1509:PRO:HB3	2.39	0.52
1:A:1404:VAL:HA	1:A:1423:LEU:HD22	1.90	0.52
1:A:1567:PHE:CD1	1:A:1583:ALA:HA	2.44	0.52
2:B:2247:HIS:HA	2:B:2308:ARG:NH1	2.24	0.52
2:B:2462:VAL:HG22	2:B:2463:SER:N	2.24	0.52
2:B:3020:PHE:CE2	2:B:3021:LYS:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:ARG:NH1	1:C:217:PHE:HD2	2.07	0.52
1:C:433:ARG:HA	1:C:436:VAL:HG12	1.91	0.52
1:C:452:VAL:HG23	1:C:453:ASP:N	2.23	0.52
1:C:482:HIS:HD2	1:C:487:PHE:CD2	2.28	0.52
1:C:583:LEU:HD21	1:C:719:ILE:HG12	1.91	0.52
1:C:615:PHE:CD1	1:C:622:TYR:CZ	2.97	0.52
1:C:698:LEU:CD1	1:C:700:TYR:HD1	2.22	0.52
1:C:731:GLY:O	1:C:818:ALA:HB1	2.10	0.52
1:C:749:THR:HG23	1:C:752:SER:N	2.23	0.52
1:C:845:LEU:HD11	1:C:926:PRO:HG2	1.89	0.52
1:C:1277:PHE:CE1	1:C:1286:TYR:CE1	2.97	0.52
1:C:1292:PHE:O	1:C:1308:CYS:HB2	2.08	0.52
1:C:1618:LEU:HD21	2:D:1906:VAL:CG1	2.40	0.52
2:D:2145:THR:OG1	2:D:2321:LEU:HB3	2.08	0.52
2:D:2239:GLN:HG3	2:D:2255:GLN:NE2	2.24	0.52
2:D:2477:LEU:HD22	2:D:2477:LEU:N	2.24	0.52
1:A:42:HIS:CB	1:A:201:ALA:HB2	2.39	0.52
1:A:146:LYS:NZ	1:A:148:LYS:CE	2.72	0.52
1:A:514:TRP:CE3	1:A:628:LEU:CD1	2.86	0.52
1:A:1018:ILE:HG13	1:A:1045:HIS:CE1	2.45	0.52
2:B:1874:PHE:CD1	2:B:1878:HIS:CE1	2.96	0.52
2:B:1921:PRO:HB2	2:D:2195:TRP:CA	2.35	0.52
2:B:1924:LEU:CB	2:D:2094:ARG:HG2	2.38	0.52
2:B:1960:ILE:O	2:B:1964:VAL:HG13	2.10	0.52
2:B:2115:PHE:C	2:B:2118:ILE:HG22	2.33	0.52
2:B:2405:LYS:HG2	2:B:2406:THR:N	2.25	0.52
2:B:2964:VAL:HG11	2:B:2969:ILE:HD11	1.92	0.52
2:B:3001:GLN:HA	2:B:3180:HIS:ND1	2.24	0.52
2:B:3220:LYS:O	2:B:3261:LEU:HD13	2.10	0.52
1:C:502:LEU:HA	1:C:505:ARG:HG3	1.90	0.52
1:C:674:SER:CB	1:C:675:PRO:HD3	2.38	0.52
1:C:930:TRP:HB2	1:C:1018:ILE:HD11	1.91	0.52
1:C:940:LEU:HA	1:C:946:TYR:OH	2.09	0.52
1:C:1322:LEU:HD11	1:C:1506:HIS:CB	2.38	0.52
1:C:1345:TRP:HZ2	1:C:1430:LEU:CD2	2.23	0.52
1:C:1457:THR:O	1:C:1460:ARG:HG2	2.09	0.52
1:C:1491:GLN:HB3	1:C:1492:PRO:HA	1.91	0.52
1:C:1657:THR:HB	2:D:1901:GLU:OE1	2.09	0.52
2:D:2366:MET:HB2	2:D:2371:ILE:CG2	2.37	0.52
2:D:2741:ASP:CB	2:D:2743:ILE:HG22	2.38	0.52
2:D:2854:MET:CB	2:D:2856:LEU:HG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3024:ILE:CG1	2:D:3029:GLN:HE21	2.23	0.52
2:D:3051:ILE:HG23	2:D:3074:LEU:HD21	1.91	0.52
2:D:3387:ASN:HD22	2:D:3387:ASN:C	2.16	0.52
1:A:183:HIS:CE1	1:A:194:MET:CE	2.90	0.52
1:A:226:LEU:HD23	1:A:291:LYS:HB2	1.90	0.52
1:A:446:PHE:CE2	1:A:455:TYR:CD1	2.98	0.52
1:A:804:GLU:HG2	1:A:805:VAL:N	2.23	0.52
1:A:964:ILE:HG12	1:A:1038:PHE:CZ	2.44	0.52
1:A:1276:ALA:HB1	1:A:1334:LYS:CB	2.40	0.52
1:A:1467:ASP:HB3	1:A:1470:ARG:HH12	1.73	0.52
1:A:1542:GLU:HG3	1:A:1545:ARG:HD3	1.90	0.52
2:B:1674:LEU:HD11	2:B:1755:PRO:CB	2.40	0.52
2:B:1914:LYS:HG2	2:B:1918:PHE:HE1	1.71	0.52
2:B:2652:LEU:HD23	2:B:2665:GLN:OE1	2.09	0.52
1:C:227:ARG:O	1:C:228:ASN:HB2	2.07	0.52
1:C:443:PHE:HD1	1:C:543:PRO:CB	2.22	0.52
1:C:602:HIS:CE1	1:C:632:HIS:CD2	2.98	0.52
1:C:676:LEU:CD2	1:C:1365:ARG:HA	2.40	0.52
1:C:853:LEU:CB	1:C:959:TRP:HZ2	2.17	0.52
1:C:875:PHE:O	1:C:893:CYS:HB2	2.09	0.52
1:C:1018:ILE:HG13	1:C:1045:HIS:CE1	2.45	0.52
1:C:1146:PHE:N	1:C:1190:VAL:HG13	2.25	0.52
2:D:2170:VAL:HB	2:D:2288:PHE:HE1	1.69	0.52
2:D:2837:TRP:CZ3	2:D:2839:PHE:CE2	2.98	0.52
2:D:2999:TRP:CZ3	2:D:3051:ILE:HG21	2.44	0.52
1:A:866:ALA:HA	1:A:871:GLN:HG2	1.91	0.52
1:A:875:PHE:O	1:A:893:CYS:HB2	2.09	0.52
1:A:930:TRP:HB2	1:A:1018:ILE:HD11	1.91	0.52
1:A:994:GLN:NE2	1:A:994:GLN:HA	2.25	0.52
1:A:1014:ALA:HA	1:A:1017:TYR:CD1	2.45	0.52
1:A:1567:PHE:CE1	1:A:1610:ALA:HB1	2.45	0.52
2:B:2085:ARG:HD2	2:B:2358:TYR:HE1	1.63	0.52
2:B:2351:TYR:O	2:B:2354:LEU:HB2	2.09	0.52
2:B:2479:ALA:CB	2:B:2480:PRO:HD2	2.31	0.52
2:B:2829:LEU:HD13	2:B:2829:LEU:C	2.34	0.52
2:B:3317:LYS:HZ3	2:B:3391:ILE:HG21	1.73	0.52
2:B:3320:VAL:HG12	2:B:3321:LYS:N	2.16	0.52
1:C:446:PHE:CE2	1:C:455:TYR:CD1	2.97	0.52
1:C:602:HIS:HD1	1:C:636:VAL:HG21	1.74	0.52
1:C:1231:GLN:NE2	1:C:1231:GLN:HA	2.25	0.52
1:C:1233:SER:C	2:D:2320:SER:HB2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1730:PHE:HD1	2:D:1731:PRO:CD	2.23	0.52
2:D:2651:LEU:HD13	2:D:2651:LEU:C	2.33	0.52
2:D:3001:GLN:HA	2:D:3180:HIS:ND1	2.24	0.52
2:D:3020:PHE:C	2:D:3021:LYS:HG3	2.34	0.52
2:D:3132:CYS:HB2	2:D:3396:ASP:OD2	2.09	0.52
2:D:3296:PRO:O	2:D:3300:VAL:HG12	2.09	0.52
1:A:444:HIS:HB2	1:A:543:PRO:HG2	1.91	0.52
1:A:464:LEU:HD13	1:A:464:LEU:C	2.34	0.52
1:A:493:LEU:HD22	1:A:670:PHE:CD1	2.44	0.52
1:A:502:LEU:HA	1:A:505:ARG:HG3	1.90	0.52
1:A:509:ILE:HG22	1:A:510:GLY:H	1.73	0.52
1:A:717:LYS:HZ3	1:A:831:LYS:HE3	1.74	0.52
1:A:745:ILE:CG1	1:A:800:VAL:HG22	2.39	0.52
1:A:802:ILE:HD12	1:A:810:LEU:HD12	1.92	0.52
1:A:810:LEU:HD11	1:A:814:LEU:HD13	1.92	0.52
1:A:904:TRP:HB2	1:A:1081:LEU:HD13	1.91	0.52
1:A:907:LEU:CD2	1:A:1112:PHE:HZ	2.23	0.52
1:A:909:THR:HG23	1:A:910:VAL:N	2.24	0.52
1:A:1249:GLN:CG	1:A:1476:TYR:CG	2.91	0.52
1:A:1345:TRP:CE3	1:A:1400:PHE:HD2	2.28	0.52
1:A:1568:VAL:HG12	1:A:1622:PHE:HB2	1.88	0.52
2:B:2308:ARG:HH21	2:B:2375:ILE:CD1	2.22	0.52
2:B:2717:TYR:CE1	2:B:2779:LYS:HD2	2.45	0.52
2:B:2805:LYS:HG2	2:B:2806:SER:N	2.24	0.52
2:B:3293:VAL:HG23	2:B:3293:VAL:O	2.09	0.52
1:C:97:PRO:HD3	1:C:153:THR:HG21	1.91	0.52
1:C:162:ALA:HA	1:C:165:GLN:NE2	2.24	0.52
1:C:493:LEU:HD22	1:C:670:PHE:CD1	2.44	0.52
1:C:745:ILE:CG1	1:C:800:VAL:HG22	2.39	0.52
1:C:1124:LEU:HD22	1:C:1128:GLN:HG3	1.91	0.52
1:C:1469:GLN:CG	1:C:1474:ARG:HB2	2.30	0.52
1:C:1483:ILE:CD1	2:D:2037:HIS:HB2	2.39	0.52
1:C:1484:GLN:CG	2:D:2065:ILE:HD13	2.40	0.52
2:D:1743:ASP:HB3	2:D:1746:ARG:NH2	2.25	0.52
2:D:1786:ASN:OD1	2:D:1788:PHE:N	2.39	0.52
2:D:2293:PHE:CE2	2:D:2297:VAL:HG21	2.44	0.52
2:D:2673:ILE:HG13	2:D:2700:HIS:CE1	2.44	0.52
2:D:2717:TYR:CE1	2:D:2779:LYS:HD2	2.45	0.52
2:D:3206:LEU:H	2:D:3206:LEU:CD2	2.17	0.52
1:A:446:PHE:CD2	1:A:455:TYR:HB2	2.44	0.52
1:A:872:LEU:HA	1:A:875:PHE:CD1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1022:VAL:HG21	1:A:1041:LEU:HD21	1.92	0.52
1:A:1156:LEU:HG	1:A:1157:VAL:N	2.23	0.52
1:A:1295:SER:OG	1:A:1296:PRO:HA	2.10	0.52
1:A:1395:PHE:CZ	1:A:1430:LEU:CG	2.92	0.52
1:A:1533:ILE:CB	1:A:1534:PRO:HD3	2.39	0.52
1:A:1628:ILE:HG23	1:A:1628:ILE:O	2.10	0.52
2:B:1775:ILE:HG23	2:B:1775:ILE:O	2.09	0.52
2:B:2136:VAL:CB	2:B:2425:MET:HB2	2.36	0.52
2:B:2321:LEU:H	2:B:2321:LEU:CD2	2.20	0.52
2:B:3296:PRO:O	2:B:3300:VAL:HG12	2.09	0.52
1:C:42:HIS:CB	1:C:201:ALA:HB2	2.39	0.52
1:C:89:LEU:CD2	1:C:89:LEU:H	2.17	0.52
1:C:253:ASN:HD22	1:C:255:ILE:CG2	2.23	0.52
1:C:444:HIS:HB2	1:C:543:PRO:HG2	1.91	0.52
1:C:545:HIS:O	1:C:558:THR:HB	2.09	0.52
1:C:698:LEU:CB	1:C:700:TYR:HD1	2.23	0.52
1:C:810:LEU:HD11	1:C:814:LEU:HD13	1.92	0.52
1:C:1092:THR:HG23	1:C:1093:ASP:N	2.23	0.52
1:C:1234:VAL:N	2:D:2320:SER:HB2	2.25	0.52
1:C:1488:THR:HG22	1:C:1489:PRO:O	2.10	0.52
2:D:1874:PHE:CD1	2:D:1878:HIS:CE1	2.96	0.52
2:D:2663:GLU:OE2	2:D:2667:GLU:HB2	2.10	0.52
2:D:2805:LYS:HG2	2:D:2806:SER:N	2.24	0.52
2:D:2829:LEU:HD13	2:D:2829:LEU:C	2.34	0.52
1:A:207:PHE:HD2	1:A:208:LEU:HD12	1.75	0.52
1:A:602:HIS:CE1	1:A:632:HIS:CD2	2.98	0.52
1:A:931:THR:HG22	1:A:991:ILE:HG13	1.92	0.52
1:A:1249:GLN:HB3	1:A:1251:GLU:OE1	2.10	0.52
2:B:2016:TRP:CZ3	2:B:2018:PHE:CE2	2.98	0.52
2:B:2148:HIS:HD2	2:B:2348:VAL:HG22	1.75	0.52
2:B:2157:PHE:HB2	2:B:2288:PHE:CD2	2.44	0.52
2:B:2200:MET:HG3	2:B:2201:PRO:HD2	1.92	0.52
2:B:2257:GLU:O	2:B:2260:HIS:HB3	2.09	0.52
2:B:2273:TYR:HD2	2:B:2280:TYR:CE1	2.28	0.52
2:B:2477:LEU:N	2:B:2477:LEU:HD22	2.24	0.52
2:B:2628:ARG:NH1	2:B:2696:LEU:HD22	2.25	0.52
2:B:2854:MET:CB	2:B:2856:LEU:HG	2.40	0.52
2:B:3349:PHE:CE1	2:B:3375:PHE:CG	2.97	0.52
1:C:19:LEU:HD21	1:C:123:TRP:CE2	2.45	0.52
1:C:207:PHE:HD2	1:C:208:LEU:HD12	1.75	0.52
1:C:481:VAL:HB	1:C:486:ILE:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:891:PHE:CB	1:C:1183:MET:CG	2.87	0.52
1:C:1014:ALA:HA	1:C:1017:TYR:CD1	2.45	0.52
1:C:1171:ALA:HA	1:C:1198:LYS:CD	2.39	0.52
1:C:1489:PRO:HB2	1:C:1494:ASP:OD2	2.10	0.52
2:D:2273:TYR:HD2	2:D:2280:TYR:CE1	2.28	0.52
2:D:2798:PHE:HB3	2:D:2800:LEU:HD21	1.91	0.52
2:D:2996:TYR:HE1	2:D:3175:ASP:OD1	1.93	0.52
2:D:3054:LEU:HD22	2:D:3054:LEU:N	2.25	0.52
2:D:3335:VAL:CG1	2:D:3383:LEU:HD21	2.39	0.52
1:A:164:GLU:HG3	1:A:164:GLU:O	2.09	0.52
1:A:428:ILE:HD12	1:A:428:ILE:H	1.75	0.52
1:A:545:HIS:O	1:A:558:THR:HB	2.09	0.52
1:A:788:LEU:O	1:A:789:ASP:HB2	2.09	0.52
1:A:1159:PHE:CD2	1:A:1171:ALA:HB3	2.45	0.52
1:A:1345:TRP:HZ2	1:A:1430:LEU:CD2	2.23	0.52
1:A:1381:HIS:HE2	1:A:1447:PHE:HZ	1.58	0.52
1:A:1531:TYR:HD1	1:A:1535:GLN:NE2	2.08	0.52
2:B:2060:ILE:O	2:B:2060:ILE:HG13	2.10	0.52
2:B:2293:PHE:CE2	2:B:2297:VAL:HG21	2.45	0.52
2:B:2569:TRP:CB	2:B:2736:LEU:HD13	2.38	0.52
2:B:3208:GLY:HA2	2:B:3244:TRP:CZ2	2.45	0.52
2:B:3315:PRO:HB3	2:D:3350:LYS:HZ2	1.75	0.52
1:C:322:VAL:HG11	1:C:369:MET:CE	2.36	0.52
1:C:446:PHE:CD2	1:C:455:TYR:HB2	2.44	0.52
1:C:629:PHE:CD2	1:C:633:HIS:CE1	2.96	0.52
1:C:698:LEU:HD13	1:C:698:LEU:C	2.35	0.52
1:C:904:TRP:HB2	1:C:1081:LEU:HD13	1.90	0.52
1:C:1075:THR:HG21	2:D:2480:PRO:O	2.09	0.52
1:C:1136:ILE:HG23	1:C:1137:LYS:N	2.24	0.52
1:C:1156:LEU:HD11	1:C:1173:GLU:HB3	1.92	0.52
1:C:1159:PHE:CD2	1:C:1171:ALA:HB3	2.45	0.52
1:C:1554:LEU:HG	1:C:1602:LEU:HD21	1.91	0.52
1:C:1567:PHE:CE1	1:C:1610:ALA:HB1	2.45	0.52
1:C:1609:LYS:HD3	1:C:1609:LYS:O	2.10	0.52
2:D:2124:LEU:HA	2:D:2125:PRO:C	2.34	0.52
2:D:2247:HIS:HA	2:D:2308:ARG:NH1	2.24	0.52
2:D:3215:VAL:HG21	2:D:3233:PHE:CE2	2.45	0.52
1:A:262:SER:O	1:A:264:PRO:HD3	2.10	0.51
1:A:352:TRP:HZ3	1:A:354:PHE:CE2	2.27	0.51
1:A:442:ALA:HB1	1:A:505:ARG:HD2	1.92	0.51
1:A:629:PHE:CZ	1:A:633:HIS:NE2	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:973:ARG:HD2	1:A:1022:VAL:HG13	1.89	0.51
1:A:993:LYS:HE3	1:A:1197:GLU:OE2	2.10	0.51
1:A:1108:TYR:HB2	1:A:1114:TYR:OH	2.10	0.51
1:A:1262:ILE:CA	1:A:1265:LEU:HD23	2.38	0.51
1:A:1477:ARG:HD3	1:A:1514:GLU:HB3	1.90	0.51
1:A:1503:THR:HG23	1:A:1504:LYS:N	2.24	0.51
1:A:1573:GLY:O	1:A:1574:GLU:HB2	2.10	0.51
2:B:1823:PHE:HD1	2:B:1846:MET:CE	2.23	0.51
2:B:2278:LEU:CA	2:B:2419:LEU:HD21	2.41	0.51
2:B:2732:MET:HE2	2:B:2759:PHE:CZ	2.46	0.51
2:B:2999:TRP:HH2	2:B:3074:LEU:HD11	1.69	0.51
2:B:3024:ILE:CG1	2:B:3029:GLN:HE21	2.23	0.51
1:C:19:LEU:HG	1:C:122:TYR:OH	2.10	0.51
1:C:163:LEU:HD13	1:C:163:LEU:C	2.36	0.51
1:C:181:ALA:O	1:C:185:LEU:HD13	2.10	0.51
1:C:309:LEU:HD22	1:C:354:PHE:CE2	2.46	0.51
1:C:325:PRO:HG2	1:C:376:HIS:ND1	2.25	0.51
1:C:362:LEU:O	1:C:366:VAL:HG23	2.09	0.51
1:C:717:LYS:HZ3	1:C:831:LYS:HE3	1.75	0.51
1:C:805:VAL:HG13	1:C:806:ASP:N	2.25	0.51
1:C:1108:TYR:HB2	1:C:1114:TYR:OH	2.10	0.51
1:C:1126:ILE:N	1:C:1126:ILE:HD12	2.25	0.51
1:C:1311:HIS:CE1	1:C:1442:LEU:HD21	2.45	0.51
1:C:1491:GLN:NE2	1:C:1494:ASP:HB2	2.24	0.51
1:C:1549:VAL:N	1:C:1608:THR:HG22	2.02	0.51
2:D:2134:ASN:O	2:D:2135:GLU:HG3	2.10	0.51
2:D:2214:THR:HG21	2:D:2273:TYR:CD2	2.45	0.51
2:D:2344:VAL:HG13	2:D:2347:ASP:H	1.73	0.51
2:D:2387:GLY:HA3	2:D:2432:LEU:CD2	2.23	0.51
2:D:3293:VAL:HG23	2:D:3293:VAL:O	2.09	0.51
1:A:19:LEU:HG	1:A:122:TYR:OH	2.10	0.51
1:A:551:PHE:CE1	1:A:625:PHE:CZ	2.95	0.51
1:A:698:LEU:CB	1:A:700:TYR:HD1	2.23	0.51
1:A:731:GLY:O	1:A:818:ALA:HB1	2.10	0.51
1:A:911:GLN:OE1	1:A:1096:THR:HG21	2.10	0.51
1:A:1027:PRO:HG3	1:A:1220:LYS:NZ	2.24	0.51
1:A:1242:HIS:CG	1:A:1476:TYR:CE1	2.98	0.51
2:B:1694:SER:N	2:D:2101:TYR:CD2	2.78	0.51
2:B:1743:ASP:HB3	2:B:1746:ARG:NH2	2.25	0.51
2:B:2124:LEU:HB2	2:B:2279:HIS:HB2	1.91	0.51
2:B:2161:LEU:HB3	2:B:2166:SER:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2189:LYS:HG3	2:B:2190:GLU:N	2.25	0.51
2:B:2327:ARG:CG	2:B:2331:TYR:HE1	2.21	0.51
2:B:2339:THR:HG23	2:B:2340:LYS:N	2.25	0.51
2:B:2444:ALA:HB3	2:B:2446:ILE:HB	1.92	0.51
2:B:2864:PHE:CE1	2:B:2886:VAL:HG22	2.44	0.51
1:C:615:PHE:CD1	1:C:622:TYR:CE1	2.98	0.51
1:C:743:VAL:HG13	1:C:800:VAL:CG1	2.41	0.51
1:C:842:VAL:HG13	1:C:843:ASP:N	2.24	0.51
1:C:866:ALA:HA	1:C:871:GLN:HG2	1.91	0.51
1:C:934:LEU:HD22	1:C:934:LEU:N	2.26	0.51
1:C:1078:ARG:CG	2:D:2456:GLU:HA	2.40	0.51
1:C:1295:SER:OG	1:C:1296:PRO:HA	2.10	0.51
1:C:1495:LYS:N	1:C:1495:LYS:HD2	2.24	0.51
2:D:1775:ILE:O	2:D:1775:ILE:HG23	2.09	0.51
2:D:1851:HIS:CA	2:D:1862:ILE:HG22	2.39	0.51
2:D:1910:LYS:HE2	2:D:1933:LYS:CE	2.40	0.51
2:D:2339:THR:HG23	2:D:2340:LYS:N	2.25	0.51
2:D:2462:VAL:HG22	2:D:2463:SER:N	2.24	0.51
2:D:2638:PRO:HB2	2:D:2641:GLY:HA2	1.92	0.51
2:D:2670:HIS:CE1	2:D:2704:THR:HG21	2.44	0.51
2:D:2963:CYS:SG	2:D:3093:LEU:HD11	2.51	0.51
2:D:2976:LEU:HD22	2:D:3144:PHE:CD2	2.45	0.51
2:D:3208:GLY:HA2	2:D:3244:TRP:CZ2	2.45	0.51
1:A:181:ALA:O	1:A:185:LEU:HD13	2.10	0.51
1:A:552:GLU:CG	1:A:554:ASN:HB2	2.41	0.51
1:A:578:LEU:O	1:A:582:ILE:HG13	2.11	0.51
1:A:600:ILE:HG23	1:A:601:THR:N	2.24	0.51
1:A:1010:GLN:O	1:A:1013:ILE:HG13	2.11	0.51
1:A:1216:VAL:HG23	1:A:1224:LEU:HD23	1.91	0.51
1:A:1231:GLN:NE2	1:A:1231:GLN:HA	2.25	0.51
1:A:1427:LEU:HD13	1:A:1427:LEU:O	2.10	0.51
2:B:2094:ARG:CG	2:D:1924:LEU:HB3	2.27	0.51
2:B:2195:TRP:HB3	2:D:1922:TYR:N	2.25	0.51
2:B:2572:LEU:CD2	2:B:2764:PHE:HE2	2.20	0.51
2:B:2627:THR:HG21	2:B:2681:THR:OG1	2.10	0.51
2:B:2777:THR:HG22	2:B:2780:LYS:CB	2.41	0.51
2:B:2798:PHE:HB3	2:B:2800:LEU:HD21	1.91	0.51
2:B:3333:GLU:OE1	2:B:3333:GLU:HA	2.09	0.51
1:C:253:ASN:HD22	1:C:255:ILE:HG22	1.75	0.51
1:C:551:PHE:CE1	1:C:625:PHE:HZ	2.21	0.51
1:C:560:ARG:HD2	1:C:609:THR:CA	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:928:TRP:CZ3	1:C:1041:LEU:HD11	2.45	0.51
1:C:964:ILE:HG12	1:C:1038:PHE:CE2	2.45	0.51
1:C:1216:VAL:HG23	1:C:1224:LEU:HD23	1.91	0.51
1:C:1276:ALA:HB1	1:C:1334:LYS:CB	2.40	0.51
1:C:1575:HIS:CA	2:D:2783:HIS:HB2	2.41	0.51
2:D:1823:PHE:HD1	2:D:1846:MET:CE	2.23	0.51
2:D:2118:ILE:HD11	2:D:2156:GLN:HG3	1.93	0.51
2:D:2148:HIS:HD2	2:D:2348:VAL:HG22	1.75	0.51
2:D:2354:LEU:HB2	2:D:2356:TYR:HD1	1.75	0.51
2:D:3027:ILE:O	2:D:3028:ASN:HB2	2.09	0.51
2:D:3160:LEU:HD13	2:D:3162:ASN:N	2.17	0.51
1:A:161:ASP:HA	1:A:297:ARG:HH12	1.76	0.51
1:A:365:THR:HG23	1:A:366:VAL:N	2.26	0.51
1:A:1488:THR:HG22	1:A:1489:PRO:O	2.10	0.51
1:A:1489:PRO:HB2	1:A:1494:ASP:OD2	2.10	0.51
1:A:1609:LYS:HD3	1:A:1609:LYS:O	2.10	0.51
1:A:1662:THR:CG2	2:B:1899:GLY:H	2.23	0.51
2:B:1815:SER:OG	2:B:1820:HIS:CD2	2.63	0.51
2:B:2219:ASP:HB3	2:B:2269:GLY:HA3	1.93	0.51
2:B:2958:GLU:O	2:B:2959:LYS:HB2	2.09	0.51
2:B:2976:LEU:HD22	2:B:3144:PHE:CD2	2.45	0.51
2:B:3048:PHE:HD2	2:B:3052:PHE:HB3	1.74	0.51
2:B:3305:GLU:HG3	2:B:3319:VAL:HG11	1.90	0.51
1:C:89:LEU:CB	1:C:207:PHE:CZ	2.93	0.51
1:C:428:ILE:H	1:C:428:ILE:HD12	1.75	0.51
1:C:551:PHE:CE1	1:C:625:PHE:CZ	2.95	0.51
1:C:666:HIS:CD2	1:C:687:MET:HG3	2.46	0.51
1:C:715:ILE:HG23	1:C:716:GLU:N	2.25	0.51
1:C:751:ASP:O	1:C:752:SER:HB2	2.10	0.51
1:C:1010:GLN:O	1:C:1013:ILE:HG13	2.10	0.51
2:D:1816:THR:HG23	2:D:1817:LYS:N	2.25	0.51
2:D:2278:LEU:CA	2:D:2419:LEU:HD21	2.40	0.51
2:D:2444:ALA:HB3	2:D:2446:ILE:HB	1.92	0.51
2:D:2958:GLU:O	2:D:2959:LYS:HB2	2.09	0.51
2:D:3009:PHE:CE1	2:D:3019:PHE:CD1	2.99	0.51
2:D:3056:LEU:CD2	2:D:3187:LEU:HD11	2.40	0.51
1:A:86:THR:HG23	1:A:87:SER:N	2.24	0.51
1:A:89:LEU:CB	1:A:207:PHE:CZ	2.93	0.51
1:A:578:LEU:CD1	1:A:604:THR:HG21	2.27	0.51
1:A:751:ASP:O	1:A:752:SER:HB2	2.10	0.51
1:A:1161:ILE:HD13	1:A:1198:LYS:NZ	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1662:THR:HG21	2:B:1898:SER:HA	1.91	0.51
2:B:1910:LYS:HE2	2:B:1933:LYS:CE	2.41	0.51
2:B:2220:VAL:HG12	2:B:2221:GLN:N	2.25	0.51
2:B:2963:CYS:SG	2:B:3093:LEU:HD11	2.51	0.51
2:B:3034:ASP:HB3	2:B:3084:GLY:HA3	1.93	0.51
1:C:788:LEU:O	1:C:789:ASP:HB2	2.09	0.51
1:C:889:LYS:HE2	1:C:891:PHE:CZ	2.46	0.51
1:C:911:GLN:OE1	1:C:1096:THR:HG21	2.10	0.51
1:C:1077:MET:O	1:C:1102:PRO:HD2	2.11	0.51
1:C:1296:PRO:HD3	1:C:1381:HIS:CD2	2.46	0.51
1:C:1401:TYR:HE2	1:C:1405:LEU:HD22	1.75	0.51
1:C:1503:THR:HG23	1:C:1504:LYS:N	2.24	0.51
1:C:1567:PHE:HE1	1:C:1610:ALA:HB1	1.74	0.51
1:C:1573:GLY:O	1:C:1574:GLU:HB2	2.10	0.51
2:D:1960:ILE:O	2:D:1964:VAL:HG13	2.10	0.51
2:D:2093:GLU:CA	2:D:2096:ILE:HG22	2.41	0.51
2:D:2200:MET:HG3	2:D:2201:PRO:HD2	1.92	0.51
2:D:2256:PHE:HZ	2:D:2294:VAL:HG22	1.69	0.51
2:D:2405:LYS:HG2	2:D:2406:THR:N	2.25	0.51
2:D:2984:ALA:O	2:D:2988:HIS:HD2	1.94	0.51
2:D:3220:LYS:O	2:D:3261:LEU:HD13	2.10	0.51
1:A:1:GLU:HG3	1:A:2:ASN:N	2.26	0.51
1:A:23:LEU:HD12	1:A:26:LEU:HD23	1.93	0.51
1:A:163:LEU:HD13	1:A:163:LEU:C	2.35	0.51
1:A:674:SER:CB	1:A:675:PRO:HD3	2.38	0.51
1:A:694:TYR:CE2	1:A:695:GLU:HG3	2.46	0.51
1:A:748:LYS:CB	1:A:754:GLN:HG2	2.39	0.51
1:A:805:VAL:HG13	1:A:806:ASP:N	2.25	0.51
1:A:853:LEU:HB3	1:A:959:TRP:CE2	2.44	0.51
1:A:905:HIS:NE2	3:A:9003:CUO:O2	2.43	0.51
1:A:1460:ARG:HB3	1:A:1523:TYR:CE1	2.46	0.51
2:B:1977:PHE:CE1	2:B:2063:PRO:HG3	2.44	0.51
2:B:2214:THR:HG21	2:B:2273:TYR:CD2	2.45	0.51
2:B:2384:VAL:HG12	2:B:2438:THR:HA	1.93	0.51
2:B:2622:LEU:CG	2:B:2683:TYR:HE1	2.20	0.51
2:B:2645:PHE:O	2:B:2649:GLN:HG2	2.11	0.51
2:B:3311:ASP:H	2:B:3387:ASN:CB	2.22	0.51
1:C:94:TRP:NE1	1:C:144:PHE:CE2	2.79	0.51
1:C:262:SER:O	1:C:264:PRO:HD3	2.11	0.51
1:C:438:ASN:CG	1:C:508:THR:HG22	2.36	0.51
1:C:495:VAL:HG13	1:C:496:THR:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:GLU:HG3	1:C:554:ASN:HB2	1.91	0.51
1:C:907:LEU:CD2	1:C:1112:PHE:HZ	2.23	0.51
1:C:994:GLN:NE2	1:C:994:GLN:HA	2.25	0.51
1:C:1244:GLU:HG2	1:C:1245:GLY:H	1.76	0.51
1:C:1262:ILE:HD12	1:C:1353:PRO:HB3	1.91	0.51
2:D:1793:ILE:HG21	2:D:1796:GLU:HB3	1.93	0.51
2:D:1991:GLN:HB3	2:D:2000:GLU:O	2.11	0.51
2:D:2016:TRP:CZ3	2:D:2018:PHE:CE2	2.98	0.51
2:D:2118:ILE:HG23	2:D:2157:PHE:CZ	2.46	0.51
2:D:2273:TYR:CD2	2:D:2280:TYR:CZ	2.99	0.51
2:D:2713:ALA:HB1	2:D:2778:ILE:CD1	2.40	0.51
2:D:3166:ASP:O	2:D:3169:ARG:HG2	2.10	0.51
1:A:94:TRP:NE1	1:A:144:PHE:CE2	2.79	0.51
1:A:144:PHE:O	1:A:147:VAL:HG12	2.10	0.51
1:A:253:ASN:HD22	1:A:255:ILE:CG2	2.23	0.51
1:A:666:HIS:CD2	1:A:687:MET:HG3	2.46	0.51
1:A:676:LEU:CD2	1:A:1365:ARG:HA	2.40	0.51
1:A:743:VAL:HG13	1:A:800:VAL:CG1	2.41	0.51
1:A:1063:ARG:HD2	1:A:1065:LYS:HD3	1.93	0.51
1:A:1126:ILE:N	1:A:1126:ILE:HD12	2.25	0.51
1:A:1311:HIS:CE1	1:A:1442:LEU:HD21	2.46	0.51
1:A:1320:HIS:HD2	1:A:1455:HIS:CD2	2.29	0.51
1:A:1657:THR:CB	2:B:1898:SER:OG	2.59	0.51
2:B:2118:ILE:HD11	2:B:2156:GLN:HG3	1.93	0.51
2:B:2264:HIS:HB3	2:B:2419:LEU:HD12	1.93	0.51
2:B:2326:MET:O	2:B:2329:PHE:HB2	2.11	0.51
2:B:2636:ASN:HB2	2:B:2644:SER:OG	2.11	0.51
2:B:3054:LEU:HD22	2:B:3054:LEU:N	2.25	0.51
2:B:3209:ILE:HD12	2:B:3235:ILE:HG21	1.93	0.51
2:B:3325:LYS:HD3	2:B:3367:TYR:CB	2.41	0.51
1:C:160:LEU:HD11	1:C:294:LEU:HD21	1.91	0.51
1:C:168:PHE:HE1	1:C:217:PHE:CE1	2.29	0.51
1:C:344:LEU:HD13	1:C:344:LEU:C	2.36	0.51
1:C:464:LEU:HA	1:C:465:PRO:C	2.35	0.51
1:C:821:ILE:HD12	1:C:821:ILE:C	2.34	0.51
1:C:1202:LEU:HD13	1:C:1204:LEU:HD11	1.92	0.51
1:C:1212:ILE:HD11	1:C:1232:PRO:HB2	1.93	0.51
1:C:1242:HIS:CG	1:C:1476:TYR:CE1	2.98	0.51
1:C:1262:ILE:CA	1:C:1265:LEU:HD23	2.38	0.51
1:C:1394:LEU:HD22	1:C:1394:LEU:N	2.26	0.51
1:C:1515:TYR:CG	1:C:1519:PHE:HB2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1568:VAL:CG1	1:C:1622:PHE:CD1	2.94	0.51
2:D:2161:LEU:HB3	2:D:2166:SER:CB	2.41	0.51
2:D:2264:HIS:HB3	2:D:2419:LEU:HD12	1.93	0.51
2:D:3187:LEU:CD1	2:D:3190:VAL:HG11	2.41	0.51
2:D:3209:ILE:O	2:D:3210:ARG:HB2	2.11	0.51
2:D:3209:ILE:HD12	2:D:3235:ILE:HG21	1.93	0.51
1:A:101:LEU:CD2	1:A:137:ARG:HH22	2.24	0.51
1:A:160:LEU:HD11	1:A:294:LEU:HD21	1.92	0.51
1:A:344:LEU:HD13	1:A:344:LEU:C	2.36	0.51
1:A:440:ARG:NH2	1:A:540:HIS:HD2	2.09	0.51
1:A:1156:LEU:HD11	1:A:1173:GLU:HB3	1.92	0.51
1:A:1322:LEU:HD11	1:A:1506:HIS:CB	2.38	0.51
1:A:1345:TRP:CZ3	1:A:1400:PHE:CD2	2.99	0.51
2:B:1851:HIS:CA	2:B:1862:ILE:HG22	2.39	0.51
2:B:1907:ASN:OD1	2:B:1908:LEU:HD12	2.11	0.51
2:B:2045:VAL:HG12	2:B:2046:THR:N	2.24	0.51
2:B:2134:ASN:O	2:B:2135:GLU:HG3	2.10	0.51
2:B:2141:HIS:CD2	2:B:2146:PHE:CE2	2.99	0.51
2:B:2195:TRP:CD2	2:D:1922:TYR:CD1	2.99	0.51
2:B:2432:LEU:HD21	2:B:2481:THR:HG21	1.91	0.51
2:B:2761:TYR:CA	2:B:2764:PHE:HD1	2.24	0.51
2:B:2837:TRP:CZ3	2:B:2839:PHE:CE2	2.98	0.51
2:B:2996:TYR:HE1	2:B:3175:ASP:OD1	1.93	0.51
2:B:3056:LEU:CD2	2:B:3187:LEU:HD11	2.40	0.51
2:B:3340:LEU:HD22	2:B:3377:THR:HG21	1.92	0.51
1:C:42:HIS:HA	1:C:68:TRP:CH2	2.46	0.51
1:C:168:PHE:HE1	1:C:217:PHE:CZ	2.28	0.51
1:C:179:HIS:ND1	1:C:209:HIS:NE2	2.59	0.51
1:C:486:ILE:CD1	1:C:662:LEU:HG	2.30	0.51
1:C:598:PHE:CZ	1:C:636:VAL:CG1	2.94	0.51
1:C:729:TYR:CD1	1:C:821:ILE:CD1	2.94	0.51
1:C:914:ASN:HA	1:C:917:ARG:HG2	1.93	0.51
1:C:993:LYS:HE3	1:C:1197:GLU:OE2	2.10	0.51
1:C:1161:ILE:HD13	1:C:1198:LYS:NZ	2.24	0.51
1:C:1228:LEU:HD23	1:C:1228:LEU:N	2.26	0.51
1:C:1320:HIS:HD2	1:C:1455:HIS:CD2	2.29	0.51
1:C:1567:PHE:CE2	1:C:1580:SER:CB	2.94	0.51
2:D:2402:GLN:CD	2:D:2412:HIS:HA	2.36	0.51
2:D:2636:ASN:HB2	2:D:2644:SER:OG	2.11	0.51
2:D:2743:ILE:HG23	2:D:2744:ASN:N	2.25	0.51
2:D:2964:VAL:HG11	2:D:2969:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:19:LEU:HD13	1:A:85:ARG:CD	2.41	0.51
1:A:42:HIS:HA	1:A:68:TRP:CH2	2.46	0.51
1:A:117:LYS:HG2	1:A:118:ALA:N	2.26	0.51
1:A:544:PHE:HD1	1:A:631:PHE:HZ	1.56	0.51
1:A:698:LEU:CD1	1:A:700:TYR:HD1	2.22	0.51
1:A:715:ILE:HG23	1:A:716:GLU:N	2.25	0.51
1:A:729:TYR:CB	1:A:821:ILE:HD11	2.38	0.51
1:A:1254:SER:H	1:A:1522:ALA:HB2	1.76	0.51
1:A:1394:LEU:HD22	1:A:1394:LEU:N	2.26	0.51
2:B:1724:VAL:HG12	2:B:1724:VAL:O	2.10	0.51
2:B:1974:PHE:CE2	2:B:2025:ASP:HB2	2.46	0.51
2:B:1977:PHE:CD1	2:B:2063:PRO:HB3	2.46	0.51
2:B:2148:HIS:HD2	2:B:2345:PRO:O	1.94	0.51
2:B:2275:LEU:H	2:B:2275:LEU:CD2	2.23	0.51
2:B:2471:VAL:HG12	2:B:2472:LEU:N	2.24	0.51
2:B:2526:VAL:HA	2:B:2584:HIS:NE2	2.26	0.51
2:B:3009:PHE:CE1	2:B:3019:PHE:CD1	2.99	0.51
2:B:3110:ASP:O	2:B:3114:ILE:HD13	2.11	0.51
2:B:3308:ILE:HG23	2:B:3309:GLY:N	2.24	0.51
1:C:144:PHE:O	1:C:147:VAL:HG12	2.10	0.51
1:C:161:ASP:HA	1:C:297:ARG:HH12	1.76	0.51
1:C:552:GLU:CG	1:C:554:ASN:HB2	2.41	0.51
1:C:602:HIS:ND1	1:C:632:HIS:NE2	2.57	0.51
1:C:802:ILE:HD12	1:C:810:LEU:HD12	1.92	0.51
1:C:1249:GLN:HB3	1:C:1251:GLU:OE1	2.10	0.51
1:C:1345:TRP:CZ3	1:C:1400:PHE:CD2	2.99	0.51
1:C:1463:ALA:O	1:C:1466:GLN:HB2	2.11	0.51
1:C:1626:ILE:O	1:C:1626:ILE:HG13	2.11	0.51
2:D:1741:PHE:CE1	2:D:1875:TYR:CE1	2.99	0.51
2:D:2148:HIS:HD2	2:D:2345:PRO:O	1.94	0.51
2:D:2175:TRP:CH2	2:D:2266:LEU:CD2	2.94	0.51
2:D:2571:ARG:HD2	2:D:2708:TRP:CZ3	2.46	0.51
2:D:2572:LEU:CD2	2:D:2764:PHE:HE2	2.20	0.51
2:D:2627:THR:HG21	2:D:2681:THR:OG1	2.10	0.51
2:D:3019:PHE:O	2:D:3100:PRO:HB2	2.11	0.51
2:D:3325:LYS:HD3	2:D:3367:TYR:CB	2.41	0.51
2:D:3362:GLU:OE1	2:D:3362:GLU:HA	2.09	0.51
1:A:97:PRO:HD3	1:A:153:THR:HG21	1.92	0.51
1:A:325:PRO:HG2	1:A:376:HIS:ND1	2.25	0.51
1:A:433:ARG:HA	1:A:436:VAL:HG12	1.91	0.51
1:A:481:VAL:HB	1:A:486:ILE:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HG22	1:A:552:GLU:H	1.76	0.51
1:A:914:ASN:HA	1:A:917:ARG:HG2	1.93	0.51
1:A:964:ILE:HG12	1:A:1038:PHE:CE2	2.45	0.51
1:A:1228:LEU:HD23	1:A:1228:LEU:N	2.26	0.51
1:A:1379:ILE:CD1	1:A:1444:TYR:CD1	2.94	0.51
2:B:1729:THR:HG22	2:B:1729:THR:O	2.10	0.51
2:B:1838:ASP:HA	2:B:2020:ARG:HD2	1.92	0.51
2:B:1920:ALA:CB	2:B:1921:PRO:HA	2.30	0.51
2:B:1920:ALA:HA	2:B:1921:PRO:C	2.36	0.51
2:B:1991:GLN:HB3	2:B:2000:GLU:O	2.11	0.51
2:B:2143:MET:HE3	2:B:2321:LEU:HD12	1.93	0.51
2:B:2377:ASP:HA	2:B:2380:HIS:CE1	2.46	0.51
2:B:2402:GLN:HA	2:B:2411:HIS:O	2.11	0.51
2:B:2624:VAL:HG22	2:B:2625:ASP:H	1.76	0.51
2:B:2743:ILE:HG23	2:B:2744:ASN:N	2.25	0.51
2:B:2981:PHE:CD2	2:B:3103:MET:HB3	2.46	0.51
2:B:3038:ALA:C	2:B:3039:ILE:HG13	2.36	0.51
1:C:19:LEU:HD13	1:C:85:ARG:CD	2.41	0.51
1:C:37:LYS:HD3	1:C:37:LYS:C	2.36	0.51
1:C:183:HIS:CE1	1:C:194:MET:CE	2.90	0.51
1:C:322:VAL:CB	1:C:379:VAL:HG12	2.41	0.51
1:C:365:THR:HG23	1:C:366:VAL:N	2.26	0.51
1:C:442:ALA:HB1	1:C:505:ARG:HD2	1.92	0.51
1:C:578:LEU:O	1:C:582:ILE:HG13	2.10	0.51
1:C:1022:VAL:HG21	1:C:1041:LEU:HD21	1.92	0.51
1:C:1460:ARG:HB3	1:C:1523:TYR:CE1	2.46	0.51
1:C:1476:TYR:CD2	1:C:1477:ARG:CB	2.88	0.51
1:C:1566:VAL:HG22	1:C:1626:ILE:CA	2.39	0.51
2:D:1665:VAL:O	2:D:1665:VAL:HG12	2.10	0.51
2:D:1674:LEU:HD11	2:D:1755:PRO:CB	2.40	0.51
2:D:1931:PHE:CE1	2:D:1942:LYS:CB	2.94	0.51
2:D:1974:PHE:CE2	2:D:2025:ASP:HB2	2.46	0.51
2:D:1977:PHE:CD1	2:D:2063:PRO:HB3	2.46	0.51
2:D:2189:LYS:HG3	2:D:2190:GLU:N	2.26	0.51
2:D:2219:ASP:HB3	2:D:2269:GLY:HA3	1.93	0.51
2:D:2384:VAL:HG12	2:D:2438:THR:HA	1.93	0.51
2:D:2777:THR:HG22	2:D:2780:LYS:CB	2.41	0.51
2:D:3038:ALA:C	2:D:3039:ILE:HG13	2.36	0.51
2:D:3217:VAL:HA	2:D:3273:ASP:CG	2.36	0.51
1:A:194:MET:HG3	1:A:200:THR:OG1	2.11	0.50
1:A:210:HIS:HA	1:A:213:VAL:CG2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:ASN:HD22	1:A:255:ILE:HG22	1.75	0.50
1:A:275:TYR:HE1	1:A:277:TYR:CE2	2.29	0.50
1:A:440:ARG:HH22	1:A:540:HIS:HD2	1.57	0.50
1:A:698:LEU:CG	1:A:700:TYR:CD1	2.95	0.50
1:A:889:LYS:HE2	1:A:891:PHE:CZ	2.46	0.50
1:A:1124:LEU:HD22	1:A:1128:GLN:HG3	1.91	0.50
1:A:1420:LEU:HD12	1:A:1423:LEU:HD21	1.93	0.50
1:A:1547:ASP:HB3	1:A:1648:PHE:HZ	1.72	0.50
2:B:1701:ILE:CG2	2:B:1741:PHE:CZ	2.94	0.50
2:B:2118:ILE:HG23	2:B:2157:PHE:CZ	2.46	0.50
2:B:2175:TRP:CH2	2:B:2266:LEU:CD2	2.94	0.50
2:B:2354:LEU:HB2	2:B:2356:TYR:HD1	1.75	0.50
2:B:2663:GLU:OE2	2:B:2667:GLU:HB2	2.10	0.50
2:B:2713:ALA:HB1	2:B:2778:ILE:CD1	2.40	0.50
2:B:3071:TYR:CE1	2:B:3109:LEU:CD2	2.94	0.50
1:C:104:LEU:CB	1:C:123:TRP:CZ3	2.95	0.50
1:C:146:LYS:NZ	1:C:148:LYS:CE	2.71	0.50
1:C:232:LYS:HE2	1:C:232:LYS:CA	2.41	0.50
1:C:498:VAL:HG13	1:C:499:GLU:N	2.26	0.50
1:C:659:ALA:HB1	1:C:662:LEU:HB3	1.93	0.50
1:C:729:TYR:CB	1:C:821:ILE:HD11	2.38	0.50
1:C:874:ALA:CB	1:C:881:TRP:HE1	2.24	0.50
1:C:891:PHE:HB3	1:C:1183:MET:HG2	1.93	0.50
1:C:995:VAL:HG21	1:C:1121:PHE:CE1	2.46	0.50
1:C:1427:LEU:HD13	1:C:1427:LEU:O	2.10	0.50
1:C:1531:TYR:HD1	1:C:1535:GLN:NE2	2.08	0.50
2:D:1737:TYR:CZ	2:D:1741:PHE:CE1	2.96	0.50
2:D:1763:ARG:NH1	2:D:1763:ARG:HB2	2.25	0.50
2:D:1815:SER:OG	2:D:1820:HIS:CD2	2.63	0.50
2:D:2185:LEU:H	2:D:2185:LEU:CD2	2.23	0.50
2:D:2542:HIS:CE1	2:D:2688:LEU:HD12	2.35	0.50
2:D:2732:MET:HE2	2:D:2759:PHE:CZ	2.46	0.50
2:D:3062:ASP:OD2	2:D:3125:LYS:HD3	2.11	0.50
1:A:122:TYR:CG	1:A:123:TRP:N	2.79	0.50
1:A:232:LYS:HE2	1:A:232:LYS:CA	2.41	0.50
1:A:409:PHE:CE2	2:B:3186:GLU:CD	2.89	0.50
1:A:532:TYR:CE2	1:A:534:ASP:CA	2.94	0.50
1:A:598:PHE:CE2	1:A:636:VAL:HG13	2.46	0.50
1:A:732:PHE:HB2	1:A:734:LEU:HD11	1.93	0.50
1:A:860:LEU:HD21	1:A:869:PHE:HD1	1.76	0.50
1:A:930:TRP:CE3	1:A:1018:ILE:CD1	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:973:ARG:HD2	1:A:1022:VAL:HG11	1.92	0.50
1:A:1159:PHE:CE2	1:A:1171:ALA:CB	2.95	0.50
1:A:1202:LEU:HD13	1:A:1204:LEU:HD11	1.92	0.50
1:A:1251:GLU:CD	1:A:1476:TYR:CZ	2.89	0.50
1:A:1469:GLN:CG	1:A:1474:ARG:HB2	2.30	0.50
1:A:1568:VAL:CG1	1:A:1622:PHE:CD1	2.94	0.50
1:A:1655:ALA:O	2:B:1898:SER:CB	2.59	0.50
2:B:1716:ALA:H	2:B:1719:ARG:HE	1.60	0.50
2:B:1817:LYS:C	2:D:1676:LYS:HE2	2.36	0.50
2:B:2243:ALA:O	2:B:2252:PHE:HD1	1.94	0.50
2:B:2258:VAL:HA	2:B:2261:ASN:OD1	2.11	0.50
2:B:2382:VAL:CG1	2:B:2484:TYR:CE1	2.95	0.50
2:B:3217:VAL:HA	2:B:3273:ASP:CG	2.36	0.50
2:B:3308:ILE:HG22	2:B:3312:VAL:CG2	2.41	0.50
1:C:117:LYS:HG2	1:C:118:ALA:N	2.26	0.50
1:C:532:TYR:CE2	1:C:534:ASP:CA	2.94	0.50
1:C:623:THR:HG23	1:C:624:ALA:N	2.25	0.50
1:C:694:TYR:CE2	1:C:695:GLU:CG	2.95	0.50
1:C:905:HIS:NE2	3:C:9003:CUO:O2	2.43	0.50
1:C:1014:ALA:HA	1:C:1017:TYR:CE1	2.47	0.50
2:D:1734:HIS:HD2	2:D:1878:HIS:CD2	2.29	0.50
2:D:1978:LEU:HD23	2:D:1978:LEU:C	2.36	0.50
2:D:1990:PHE:CE2	2:D:2002:ALA:CB	2.94	0.50
2:D:2275:LEU:H	2:D:2275:LEU:CD2	2.23	0.50
2:D:2326:MET:O	2:D:2329:PHE:HB2	2.11	0.50
2:D:2402:GLN:HA	2:D:2411:HIS:O	2.11	0.50
2:D:2858:TYR:HE1	2:D:2886:VAL:HG12	1.75	0.50
2:D:3341:ASN:HD22	2:D:3341:ASN:N	2.08	0.50
1:A:396:LEU:HD12	1:A:396:LEU:N	2.26	0.50
1:A:446:PHE:CE2	1:A:455:TYR:CA	2.94	0.50
1:A:482:HIS:HD2	1:A:487:PHE:CD2	2.28	0.50
1:A:513:TYR:CD1	1:A:638:ARG:CD	2.95	0.50
1:A:513:TYR:CG	1:A:638:ARG:CD	2.95	0.50
1:A:698:LEU:HD13	1:A:698:LEU:C	2.35	0.50
1:A:874:ALA:CB	1:A:881:TRP:HE1	2.24	0.50
1:A:1070:ALA:HB3	1:A:1077:MET:CE	2.42	0.50
1:A:1343:TRP:HZ3	1:A:1431:LEU:HD11	1.76	0.50
1:A:1463:ALA:O	1:A:1466:GLN:HB2	2.11	0.50
1:A:1467:ASP:CB	1:A:1470:ARG:HH12	2.24	0.50
1:A:1606:ASP:CG	1:A:1608:THR:HG23	2.37	0.50
2:B:1763:ARG:NH1	2:B:1763:ARG:HB2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1793:ILE:HG21	2:B:1796:GLU:HB3	1.93	0.50
2:B:1931:PHE:CE1	2:B:1942:LYS:CB	2.94	0.50
2:B:2026:ILE:HD12	2:B:2030:LEU:HD21	1.94	0.50
2:B:2093:GLU:CA	2:B:2096:ILE:HG22	2.41	0.50
2:B:2273:TYR:CD2	2:B:2280:TYR:CZ	2.99	0.50
2:B:2493:ASP:HB3	2:B:2506:LYS:HD3	1.93	0.50
2:B:2498:SER:O	2:B:3397:ASP:CG	2.52	0.50
2:B:3002:THR:HG22	2:B:3048:PHE:HE1	1.76	0.50
2:B:3019:PHE:O	2:B:3100:PRO:HB2	2.11	0.50
2:B:3021:LYS:HG2	2:B:3031:THR:O	2.11	0.50
2:B:3166:ASP:O	2:B:3169:ARG:HG2	2.10	0.50
2:B:3263:LEU:HB3	2:B:3267:HIS:HE1	1.76	0.50
2:B:3304:ILE:HA	2:B:3325:LYS:HB3	1.93	0.50
1:C:549:ILE:CD1	1:C:622:TYR:CD1	2.94	0.50
1:C:549:ILE:HG22	1:C:552:GLU:H	1.76	0.50
1:C:732:PHE:HB2	1:C:734:LEU:HD11	1.93	0.50
1:C:931:THR:HG22	1:C:991:ILE:HG13	1.92	0.50
1:C:1159:PHE:CE2	1:C:1171:ALA:CB	2.95	0.50
1:C:1310:VAL:HG22	1:C:1319:TRP:CB	2.41	0.50
1:C:1379:ILE:CD1	1:C:1444:TYR:CD1	2.95	0.50
2:D:1769:LEU:O	2:D:1769:LEU:HD23	2.11	0.50
2:D:1838:ASP:HA	2:D:2020:ARG:HD2	1.92	0.50
2:D:1843:PHE:CE1	2:D:1884:ILE:CD1	2.95	0.50
2:D:2136:VAL:CB	2:D:2425:MET:HB2	2.36	0.50
2:D:2377:ASP:HA	2:D:2380:HIS:CE1	2.46	0.50
2:D:2382:VAL:CG1	2:D:2484:TYR:CE1	2.95	0.50
2:D:2962:CYS:HB3	2:D:3143:PRO:CD	2.41	0.50
2:D:3082:ILE:N	2:D:3082:ILE:HD12	2.27	0.50
2:D:3136:ILE:O	2:D:3139:VAL:HG12	2.12	0.50
2:D:3205:VAL:HG11	2:D:3314:LEU:HD12	1.93	0.50
2:D:3308:ILE:HG22	2:D:3312:VAL:CG2	2.41	0.50
1:A:94:TRP:NE1	1:A:144:PHE:CZ	2.80	0.50
1:A:405:PRO:HG3	1:A:657:HIS:HB2	1.88	0.50
1:A:438:ASN:CG	1:A:508:THR:HG22	2.36	0.50
1:A:582:ILE:O	1:A:586:PHE:HD1	1.94	0.50
1:A:592:CYS:HB3	1:A:775:ARG:NH1	2.26	0.50
1:A:615:PHE:CD1	1:A:622:TYR:CE1	2.98	0.50
1:A:853:LEU:CB	1:A:959:TRP:HZ2	2.17	0.50
1:A:1515:TYR:CG	1:A:1519:PHE:HB2	2.45	0.50
2:B:1730:PHE:HD1	2:B:1731:PRO:CD	2.23	0.50
2:B:1816:THR:HG23	2:B:1817:LYS:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1978:LEU:HD23	2:B:1978:LEU:C	2.36	0.50
2:B:2305:GLN:OE1	2:B:2305:GLN:HA	2.12	0.50
2:B:2402:GLN:CD	2:B:2412:HIS:HA	2.36	0.50
2:B:2605:PHE:HE2	2:B:2614:PHE:CZ	2.30	0.50
2:B:2811:PHE:CE2	2:B:2823:ALA:CB	2.95	0.50
2:B:3205:VAL:HG11	2:B:3314:LEU:HD12	1.93	0.50
1:C:275:TYR:HE1	1:C:277:TYR:CE2	2.29	0.50
1:C:468:CYS:SG	1:C:668:LYS:HE2	2.52	0.50
1:C:516:TRP:CG	1:C:605:ILE:CD1	2.94	0.50
1:C:1251:GLU:C	1:C:1516:GLN:HB3	2.26	0.50
1:C:1550:PHE:CD2	1:C:1606:ASP:HA	2.47	0.50
1:C:1606:ASP:CG	1:C:1608:THR:HG23	2.36	0.50
2:D:1759:TRP:CH2	2:D:1877:HIS:CB	2.94	0.50
2:D:1907:ASN:OD1	2:D:1908:LEU:HD12	2.11	0.50
2:D:2026:ILE:HD12	2:D:2030:LEU:HD21	1.94	0.50
2:D:2085:ARG:HG2	2:D:2169:ALA:CB	2.42	0.50
2:D:3002:THR:HG22	2:D:3048:PHE:HE1	1.76	0.50
2:D:3043:THR:HG22	2:D:3044:LYS:N	2.27	0.50
2:D:3304:ILE:HA	2:D:3325:LYS:HB3	1.93	0.50
1:A:128:ILE:CG2	1:A:130:PHE:CE1	2.95	0.50
1:A:168:PHE:HE1	1:A:217:PHE:CE1	2.29	0.50
1:A:177:LEU:CD1	1:A:358:TYR:CD1	2.95	0.50
1:A:308:ARG:HH11	1:A:353:GLN:CD	2.20	0.50
1:A:694:TYR:CE2	1:A:695:GLU:CG	2.94	0.50
1:A:905:HIS:HD2	1:A:1046:HIS:CD2	2.29	0.50
1:A:930:TRP:CD2	1:A:1018:ILE:CG1	2.95	0.50
1:A:934:LEU:HD22	1:A:934:LEU:N	2.26	0.50
1:A:1190:VAL:HG12	1:A:1191:PHE:N	2.27	0.50
1:A:1259:ARG:HG3	1:A:1339:ALA:CB	2.42	0.50
1:A:1395:PHE:CZ	1:A:1430:LEU:CB	2.95	0.50
1:A:1442:LEU:CD2	1:A:1589:LEU:HD12	2.38	0.50
1:A:1467:ASP:HB2	1:A:1470:ARG:NH1	2.27	0.50
1:A:1626:ILE:O	1:A:1626:ILE:HG13	2.11	0.50
2:B:1741:PHE:CE1	2:B:1875:TYR:CE1	2.99	0.50
2:B:1804:ARG:HH11	2:B:1873:LEU:HD22	1.76	0.50
2:B:1887:ILE:HD13	2:B:1950:LEU:HB3	1.93	0.50
2:B:2093:GLU:HA	2:B:2096:ILE:CG2	2.42	0.50
2:B:2152:LEU:CD2	2:B:2329:PHE:CG	2.95	0.50
2:B:2602:LEU:HB3	2:B:2603:PRO:CD	2.42	0.50
2:B:3187:LEU:CD1	2:B:3190:VAL:HG11	2.41	0.50
1:C:94:TRP:NE1	1:C:144:PHE:CZ	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:165:GLN:HE21	1:C:171:PHE:HA	1.74	0.50
1:C:309:LEU:N	1:C:309:LEU:HD12	2.27	0.50
1:C:710:ILE:HG23	1:C:714:ASN:HB3	1.94	0.50
1:C:860:LEU:HD21	1:C:869:PHE:HD1	1.76	0.50
1:C:911:GLN:HE22	1:C:1091:ASN:HD21	1.58	0.50
1:C:930:TRP:CE3	1:C:1018:ILE:CD1	2.94	0.50
1:C:1156:LEU:HD13	1:C:1175:TYR:CE1	2.45	0.50
1:C:1248:TYR:HB3	1:C:1470:ARG:HH11	1.75	0.50
1:C:1254:SER:H	1:C:1522:ALA:HB2	1.76	0.50
2:D:1701:ILE:CG2	2:D:1741:PHE:CZ	2.94	0.50
2:D:2217:VAL:CG1	2:D:2271:GLN:HG3	2.42	0.50
2:D:2220:VAL:HG12	2:D:2221:GLN:N	2.25	0.50
2:D:2305:GLN:OE1	2:D:2305:GLN:HA	2.12	0.50
2:D:2403:ILE:HD12	2:D:2460:ILE:CD1	2.30	0.50
2:D:2981:PHE:CD2	2:D:3103:MET:HB3	2.46	0.50
2:D:3020:PHE:CE2	2:D:3021:LYS:CE	2.95	0.50
2:D:3034:ASP:HB3	2:D:3084:GLY:HA3	1.93	0.50
1:A:244:LYS:HZ3	1:A:263:THR:HB	1.76	0.50
1:A:623:THR:HG23	1:A:624:ALA:N	2.25	0.50
1:A:928:TRP:CZ3	1:A:1041:LEU:HD11	2.45	0.50
1:A:1296:PRO:HD3	1:A:1381:HIS:CD2	2.46	0.50
1:A:1310:VAL:HG22	1:A:1319:TRP:CB	2.41	0.50
2:B:1733:TRP:CD1	2:B:1913:LEU:HD23	2.47	0.50
2:B:2127:LYS:HZ1	2:B:2131:SER:HB2	1.74	0.50
2:B:2571:ARG:HD2	2:B:2708:TRP:CZ3	2.46	0.50
2:B:3062:ASP:OD2	2:B:3125:LYS:HD3	2.11	0.50
2:B:3082:ILE:N	2:B:3082:ILE:HD12	2.26	0.50
1:C:122:TYR:CG	1:C:123:TRP:N	2.79	0.50
1:C:156:MET:HE3	1:C:285:MET:HE1	1.92	0.50
1:C:440:ARG:NH2	1:C:540:HIS:HD2	2.09	0.50
1:C:905:HIS:HD2	1:C:1046:HIS:CD2	2.29	0.50
1:C:964:ILE:CD1	1:C:1035:TYR:CD1	2.94	0.50
1:C:1070:ALA:HB3	1:C:1077:MET:CE	2.42	0.50
1:C:1079:GLU:CD	2:D:2456:GLU:OE2	2.52	0.50
1:C:1251:GLU:CD	1:C:1476:TYR:CZ	2.89	0.50
1:C:1365:ARG:HD3	1:C:1365:ARG:N	2.21	0.50
1:C:1554:LEU:HD12	1:C:1554:LEU:N	2.26	0.50
2:D:1977:PHE:CE1	2:D:2063:PRO:HG3	2.44	0.50
2:D:2140:ILE:HG21	2:D:2145:THR:HB	1.94	0.50
2:D:2148:HIS:CB	2:D:2348:VAL:HG21	2.42	0.50
2:D:2258:VAL:HA	2:D:2261:ASN:OD1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2382:VAL:HG12	2:D:2383:ARG:N	2.27	0.50
2:D:2432:LEU:HD21	2:D:2481:THR:HG21	1.91	0.50
2:D:2526:VAL:HA	2:D:2584:HIS:NE2	2.26	0.50
2:D:2624:VAL:HG22	2:D:2625:ASP:H	1.76	0.50
2:D:2687:THR:HG23	2:D:2690:TYR:H	1.76	0.50
2:D:3039:ILE:CG2	2:D:3040:PHE:H	2.19	0.50
2:D:3110:ASP:O	2:D:3114:ILE:HD13	2.12	0.50
1:A:309:LEU:HD22	1:A:354:PHE:CE2	2.46	0.50
1:A:548:VAL:HA	1:A:556:PRO:CD	2.39	0.50
1:A:560:ARG:HH22	1:A:626:ASP:CG	2.19	0.50
1:A:729:TYR:CD1	1:A:821:ILE:CD1	2.94	0.50
1:A:746:PHE:HB2	1:A:755:HIS:O	2.12	0.50
1:A:852:GLU:HB2	1:A:921:TYR:HE1	1.73	0.50
1:A:1554:LEU:HD12	1:A:1554:LEU:N	2.26	0.50
2:B:1687:GLU:HG3	2:B:1690:LYS:NZ	2.26	0.50
2:B:1725:HIS:CD2	2:B:1734:HIS:HE1	2.29	0.50
2:B:2151:ARG:CZ	2:B:2298:TRP:CZ3	2.95	0.50
2:B:2208:TYR:HB3	2:B:2215:TYR:CE1	2.47	0.50
2:B:2822:PHE:CZ	2:B:2825:THR:CG2	2.95	0.50
2:B:3204:PHE:CB	2:B:3206:LEU:HD21	2.42	0.50
2:B:3243:PRO:CG	2:D:3354:PRO:CA	2.87	0.50
1:C:1:GLU:HG3	1:C:2:ASN:N	2.26	0.50
1:C:5:ARG:NH1	1:C:89:LEU:HD21	2.22	0.50
1:C:405:PRO:HG3	1:C:657:HIS:HB2	1.88	0.50
1:C:940:LEU:HD11	1:C:959:TRP:CD1	2.47	0.50
1:C:1259:ARG:HG3	1:C:1339:ALA:CB	2.42	0.50
1:C:1585:MET:HE1	1:C:1587:SER:OG	2.11	0.50
2:D:1716:ALA:H	2:D:1719:ARG:HE	1.60	0.50
2:D:1866:HIS:CE1	2:D:2012:LYS:HG2	2.47	0.50
2:D:1994:ARG:HG3	2:D:1995:THR:H	1.77	0.50
2:D:2351:TYR:HB2	2:D:2356:TYR:CE1	2.47	0.50
2:D:2822:PHE:CZ	2:D:2825:THR:CG2	2.95	0.50
2:D:2848:THR:CG2	2:D:2852:LYS:HE3	2.42	0.50
2:D:2939:TYR:HE1	2:D:2981:PHE:HE1	1.60	0.50
2:D:3007:PRO:HB2	2:D:3010:PHE:CD2	2.47	0.50
2:D:3327:MET:HG2	2:D:3328:PHE:N	2.27	0.50
1:A:292:THR:HG23	1:A:293:TYR:N	2.27	0.50
1:A:552:GLU:HG3	1:A:554:ASN:CB	2.42	0.50
1:A:995:VAL:HG21	1:A:1121:PHE:CE1	2.46	0.50
1:A:1212:ILE:CD1	1:A:1232:PRO:HB2	2.41	0.50
1:A:1567:PHE:CE2	1:A:1580:SER:CB	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1665:VAL:O	2:B:1665:VAL:HG12	2.10	0.50
2:B:1843:PHE:CE1	2:B:1884:ILE:CD1	2.95	0.50
2:B:2294:VAL:HG13	2:B:2295:ASP:N	2.27	0.50
2:B:2493:ASP:OD2	2:B:3124:VAL:CG2	2.59	0.50
2:B:2568:HIS:CD2	2:B:2708:TRP:CH2	2.99	0.50
2:B:3043:THR:HG22	2:B:3044:LYS:N	2.27	0.50
2:B:3182:HIS:CD2	2:B:3186:GLU:OE2	2.65	0.50
2:B:3209:ILE:O	2:B:3210:ARG:HB2	2.11	0.50
2:B:3335:VAL:CG1	2:B:3383:LEU:HD21	2.39	0.50
2:B:3341:ASN:HD22	2:B:3341:ASN:N	2.08	0.50
1:C:728:ILE:CG2	1:C:820:VAL:HG13	2.42	0.50
1:C:746:PHE:HB2	1:C:755:HIS:O	2.12	0.50
1:C:1160:ASN:HA	1:C:1171:ALA:H	1.77	0.50
1:C:1310:VAL:O	1:C:1316:PHE:HD1	1.94	0.50
1:C:1379:ILE:CD1	1:C:1447:PHE:CE2	2.95	0.50
2:D:1674:LEU:CD1	2:D:1755:PRO:HG3	2.40	0.50
2:D:1829:LEU:CD1	2:D:1833:GLN:HE22	2.24	0.50
2:D:1887:ILE:HD13	2:D:1950:LEU:HB3	1.93	0.50
2:D:2060:ILE:HG13	2:D:2060:ILE:O	2.09	0.50
2:D:2217:VAL:HG12	2:D:2271:GLN:HG3	1.93	0.50
2:D:2293:PHE:CE2	2:D:2297:VAL:CG2	2.95	0.50
2:D:2628:ARG:NH1	2:D:2696:LEU:HD22	2.25	0.50
2:D:2950:ASN:OD1	2:D:2961:PRO:HG3	2.12	0.50
2:D:2959:LYS:NZ	2:D:3240:LYS:HE2	2.27	0.50
1:A:159:VAL:HG23	1:A:160:LEU:N	2.27	0.50
1:A:304:PHE:C	1:A:362:LEU:HD13	2.37	0.50
1:A:373:LEU:HB3	1:A:403:HIS:CE1	2.46	0.50
1:A:566:LEU:CD1	1:A:608:TRP:CE3	2.94	0.50
1:A:853:LEU:CD2	1:A:921:TYR:CE2	2.95	0.50
1:A:1077:MET:O	1:A:1102:PRO:HD2	2.11	0.50
1:A:1143:PHE:CE2	1:A:1194:ASP:HB2	2.47	0.50
2:B:1674:LEU:CD1	2:B:1755:PRO:HG3	2.40	0.50
2:B:1714:PRO:HB2	2:B:1922:TYR:OH	2.12	0.50
2:B:1769:LEU:O	2:B:1769:LEU:HD23	2.11	0.50
2:B:1795:PHE:CG	2:B:1796:GLU:N	2.80	0.50
2:B:1990:PHE:CE2	2:B:2002:ALA:CB	2.94	0.50
2:B:2140:ILE:HG21	2:B:2145:THR:HB	1.94	0.50
2:B:2152:LEU:HD23	2:B:2329:PHE:CG	2.47	0.50
2:B:2289:ILE:HD12	2:B:2289:ILE:H	1.77	0.50
2:B:2687:THR:HG23	2:B:2690:TYR:H	1.76	0.50
2:B:2908:VAL:O	2:B:2908:VAL:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:LEU:HB3	1:C:403:HIS:CE1	2.46	0.50
1:C:513:TYR:CD1	1:C:638:ARG:CD	2.95	0.50
1:C:549:ILE:HD13	1:C:622:TYR:HD1	1.76	0.50
1:C:565:ARG:HH11	1:C:567:PHE:HB3	1.76	0.50
1:C:1207:GLU:OE1	1:C:1207:GLU:HA	2.12	0.50
1:C:1248:TYR:HB3	1:C:1470:ARG:NH1	2.27	0.50
1:C:1541:GLN:O	1:C:1544:LYS:HB2	2.12	0.50
2:D:1687:GLU:HG3	2:D:1690:LYS:NZ	2.26	0.50
2:D:1729:THR:HG22	2:D:1729:THR:O	2.10	0.50
2:D:1963:ILE:HG23	2:D:1964:VAL:N	2.27	0.50
2:D:1964:VAL:HG23	2:D:1965:ARG:N	2.26	0.50
2:D:2153:TYR:CZ	2:D:2157:PHE:CE1	2.95	0.50
2:D:2258:VAL:HG11	2:D:2433:PHE:HZ	1.75	0.50
2:D:2645:PHE:O	2:D:2649:GLN:HG2	2.11	0.50
2:D:2761:TYR:CA	2:D:2764:PHE:HD1	2.24	0.50
2:D:3021:LYS:HG2	2:D:3031:THR:O	2.11	0.50
2:D:3071:TYR:CE1	2:D:3109:LEU:CD2	2.94	0.50
1:A:94:TRP:HB2	1:A:182:ILE:CD1	2.42	0.49
1:A:534:ASP:C	1:A:536:HIS:H	2.20	0.49
1:A:565:ARG:HH11	1:A:567:PHE:HB3	1.76	0.49
1:A:710:ILE:HG23	1:A:714:ASN:HB3	1.94	0.49
1:A:911:GLN:HE22	1:A:1091:ASN:HD21	1.58	0.49
1:A:940:LEU:HD11	1:A:959:TRP:CD1	2.47	0.49
1:A:1248:TYR:HB3	1:A:1470:ARG:HH11	1.76	0.49
1:A:1392:ASP:CB	1:A:1395:PHE:CE1	2.95	0.49
2:B:2085:ARG:HG2	2:B:2169:ALA:CB	2.42	0.49
2:B:2180:HIS:HA	2:B:2225:PHE:CD2	2.47	0.49
2:B:2403:ILE:O	2:B:2410:CYS:HA	2.12	0.49
2:B:2535:TYR:O	2:B:2538:ILE:HG12	2.12	0.49
2:B:2538:ILE:HD13	2:B:2577:MET:CE	2.00	0.49
2:B:2973:TRP:CE3	2:B:2974:HIS:HD2	2.30	0.49
2:B:2981:PHE:HE2	2:B:2994:ILE:HD12	1.77	0.49
1:C:11:LEU:HD12	1:C:104:LEU:CD1	2.42	0.49
1:C:19:LEU:HD12	1:C:85:ARG:HD3	1.94	0.49
1:C:23:LEU:HD12	1:C:26:LEU:HD23	1.93	0.49
1:C:179:HIS:HD1	1:C:213:VAL:CG1	2.04	0.49
1:C:396:LEU:N	1:C:396:LEU:HD12	2.26	0.49
1:C:446:PHE:HE2	1:C:455:TYR:CD1	2.30	0.49
1:C:513:TYR:CG	1:C:638:ARG:CD	2.95	0.49
1:C:560:ARG:HH22	1:C:626:ASP:CG	2.20	0.49
1:C:853:LEU:CD2	1:C:921:TYR:CE2	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1212:ILE:CD1	1:C:1232:PRO:HB2	2.41	0.49
1:C:1395:PHE:CE1	1:C:1430:LEU:CD2	2.95	0.49
1:C:1467:ASP:HB2	1:C:1470:ARG:NH1	2.27	0.49
2:D:1723:CYS:SG	2:D:2013:GLU:OE2	2.70	0.49
2:D:1839:PHE:CZ	2:D:1843:PHE:CD1	3.00	0.49
2:D:2062:THR:HG23	2:D:2063:PRO:HD2	1.94	0.49
2:D:2141:HIS:CD2	2:D:2146:PHE:CE2	2.99	0.49
2:D:2243:ALA:O	2:D:2252:PHE:HD1	1.94	0.49
2:D:2622:LEU:CD1	2:D:2624:VAL:HG12	2.40	0.49
2:D:2811:PHE:CE2	2:D:2823:ALA:CB	2.95	0.49
2:D:3194:LEU:H	2:D:3194:LEU:CD1	2.25	0.49
2:D:3263:LEU:HB3	2:D:3267:HIS:HE1	1.76	0.49
2:D:3277:TYR:CG	2:D:3278:ASP:N	2.80	0.49
1:A:19:LEU:HD21	1:A:123:TRP:CE2	2.45	0.49
1:A:37:LYS:HD3	1:A:37:LYS:C	2.36	0.49
1:A:104:LEU:CB	1:A:123:TRP:CZ3	2.94	0.49
1:A:232:LYS:HD3	1:A:269:ASP:OD1	2.12	0.49
1:A:309:LEU:N	1:A:309:LEU:HD12	2.27	0.49
1:A:322:VAL:CB	1:A:379:VAL:HG12	2.41	0.49
1:A:549:ILE:CD1	1:A:622:TYR:CD1	2.94	0.49
1:A:659:ALA:HB1	1:A:662:LEU:HB3	1.93	0.49
1:A:674:SER:HB3	1:A:675:PRO:CD	2.41	0.49
1:A:728:ILE:CG2	1:A:820:VAL:HG13	2.42	0.49
1:A:748:LYS:NZ	1:A:797:GLU:OE1	2.45	0.49
1:A:1212:ILE:HD11	1:A:1232:PRO:HB2	1.93	0.49
1:A:1251:GLU:C	1:A:1516:GLN:HB3	2.26	0.49
1:A:1345:TRP:CZ2	1:A:1400:PHE:CE2	2.94	0.49
2:B:1734:HIS:HD2	2:B:1878:HIS:CD2	2.29	0.49
2:B:1759:TRP:HH2	2:B:1877:HIS:HB2	1.75	0.49
2:B:1839:PHE:CZ	2:B:1843:PHE:CD1	3.00	0.49
2:B:1860:TYR:HD2	2:B:1867:TYR:CE1	2.30	0.49
2:B:2388:PHE:N	2:B:2432:LEU:HD11	2.27	0.49
1:C:182:ILE:HD12	1:C:209:HIS:ND1	2.28	0.49
1:C:292:THR:HG23	1:C:293:TYR:N	2.27	0.49
1:C:534:ASP:C	1:C:536:HIS:H	2.20	0.49
1:C:931:THR:CA	1:C:991:ILE:HG21	2.38	0.49
1:C:1128:GLN:HA	1:C:1131:LYS:HE2	1.94	0.49
1:C:1268:GLY:HA2	1:C:1271:GLU:OE1	2.12	0.49
1:C:1485:LEU:HD12	1:C:1485:LEU:H	1.77	0.49
1:C:1628:ILE:HG23	1:C:1628:ILE:O	2.10	0.49
2:D:1689:MET:CE	2:D:1698:PHE:HD1	2.06	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1714:PRO:HB2	2:D:1922:TYR:OH	2.12	0.49
2:D:2093:GLU:HA	2:D:2096:ILE:CG2	2.42	0.49
2:D:2118:ILE:CG2	2:D:2157:PHE:CZ	2.95	0.49
2:D:2180:HIS:HA	2:D:2225:PHE:CD2	2.47	0.49
2:D:2264:HIS:CB	2:D:2419:LEU:HD12	2.42	0.49
2:D:2794:THR:O	2:D:2847:ILE:HG12	2.12	0.49
2:D:2973:TRP:CE3	2:D:2974:HIS:HD2	2.30	0.49
1:A:516:TRP:HD1	1:A:578:LEU:HG	1.77	0.49
1:A:746:PHE:CZ	1:A:799:THR:CG2	2.95	0.49
2:B:1682:LEU:HB3	2:B:1788:PHE:CZ	2.47	0.49
2:B:1714:PRO:HB3	2:B:1922:TYR:CZ	2.44	0.49
2:B:2118:ILE:CG2	2:B:2157:PHE:CZ	2.95	0.49
2:B:2140:ILE:HG23	2:B:2140:ILE:O	2.12	0.49
2:B:2141:HIS:HA	2:B:2146:PHE:CD2	2.47	0.49
2:B:2148:HIS:CB	2:B:2348:VAL:HG21	2.42	0.49
2:B:2148:HIS:CG	2:B:2345:PRO:HB3	2.48	0.49
2:B:2149:TRP:CD1	2:B:2326:MET:CG	2.95	0.49
2:B:2185:LEU:H	2:B:2185:LEU:CD2	2.23	0.49
2:B:2217:VAL:HG12	2:B:2271:GLN:HG3	1.93	0.49
2:B:2293:PHE:CE2	2:B:2297:VAL:CG2	2.95	0.49
2:B:2523:MET:O	2:B:2527:MET:HG3	2.13	0.49
2:B:2717:TYR:CE1	2:B:2779:LYS:CD	2.96	0.49
2:B:2797:ALA:CB	2:B:2842:LEU:HD13	2.43	0.49
2:B:2847:ILE:HB	2:B:2851:LEU:HD11	1.94	0.49
2:B:2905:ASP:O	2:B:3171:ASN:HB3	2.11	0.49
2:B:2959:LYS:NZ	2:B:3240:LYS:HE2	2.27	0.49
2:B:2999:TRP:CH2	2:B:3074:LEU:CD1	2.93	0.49
2:B:3007:PRO:HB2	2:B:3010:PHE:CD2	2.47	0.49
2:B:3363:LEU:HD22	2:B:3363:LEU:N	2.27	0.49
1:C:194:MET:HG3	1:C:200:THR:OG1	2.11	0.49
1:C:308:ARG:HH11	1:C:353:GLN:CD	2.20	0.49
1:C:598:PHE:CE2	1:C:636:VAL:HG13	2.46	0.49
1:C:679:ASN:OD1	1:C:681:LYS:HB2	2.12	0.49
1:C:698:LEU:CG	1:C:700:TYR:CD1	2.95	0.49
1:C:810:LEU:CG	1:C:814:LEU:HD22	2.42	0.49
1:C:852:GLU:CB	1:C:921:TYR:CD1	2.95	0.49
1:C:930:TRP:CD2	1:C:1018:ILE:CG1	2.95	0.49
1:C:1365:ARG:H	1:C:1365:ARG:CD	2.22	0.49
2:D:1724:VAL:O	2:D:1724:VAL:HG12	2.10	0.49
2:D:2103:LEU:CD1	2:D:2204:PHE:CE2	2.95	0.49
2:D:2140:ILE:HG23	2:D:2140:ILE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2143:MET:HE3	2:D:2321:LEU:HD12	1.93	0.49
2:D:2177:LYS:HZ3	2:D:2364:GLY:HA2	1.77	0.49
2:D:2577:MET:HE2	2:D:2698:TRP:CE2	2.41	0.49
2:D:2732:MET:CE	2:D:2759:PHE:CE2	2.95	0.49
2:D:2887:GLU:HG2	2:D:2888:HIS:H	1.77	0.49
2:D:2965:HIS:CD2	2:D:2970:PHE:CE1	3.00	0.49
2:D:3076:ASN:HB3	2:D:3236:LEU:CD1	2.42	0.49
2:D:3136:ILE:HD12	2:D:3136:ILE:N	2.23	0.49
1:A:495:VAL:HG13	1:A:496:THR:N	2.26	0.49
1:A:957:ASN:HD22	1:A:957:ASN:N	2.10	0.49
1:A:964:ILE:CD1	1:A:1035:TYR:CD1	2.94	0.49
1:A:1075:THR:O	2:B:2457:PRO:HD2	2.12	0.49
1:A:1607:ILE:CD1	1:A:1611:LEU:HD11	2.31	0.49
2:B:2217:VAL:CG1	2:B:2271:GLN:HG3	2.42	0.49
2:B:3216:LYS:CE	2:B:3229:TYR:HD2	2.24	0.49
1:C:5:ARG:HH22	1:C:73:VAL:HG23	1.77	0.49
1:C:89:LEU:O	1:C:89:LEU:CG	2.55	0.49
1:C:560:ARG:HH22	1:C:628:LEU:HB3	1.77	0.49
1:C:592:CYS:HB3	1:C:775:ARG:NH1	2.26	0.49
1:C:694:TYR:CE2	1:C:695:GLU:HG3	2.46	0.49
1:C:837:LEU:HD21	1:C:917:ARG:CZ	2.43	0.49
1:C:996:LEU:CD2	1:C:1129:LEU:HD11	2.43	0.49
1:C:1063:ARG:HD2	1:C:1065:LYS:HD3	1.93	0.49
1:C:1121:PHE:O	1:C:1122:ASN:HB2	2.12	0.49
2:D:1682:LEU:HB3	2:D:1788:PHE:CZ	2.47	0.49
2:D:1733:TRP:CD1	2:D:1913:LEU:HD23	2.47	0.49
2:D:1806:ILE:CD1	2:D:1854:VAL:HG12	2.43	0.49
2:D:1920:ALA:HA	2:D:1921:PRO:C	2.36	0.49
2:D:1992:VAL:HG13	2:D:2041:PHE:CD1	2.48	0.49
2:D:2152:LEU:CD2	2:D:2329:PHE:CG	2.95	0.49
2:D:2327:ARG:CG	2:D:2331:TYR:CE1	2.95	0.49
2:D:2659:PHE:HA	2:D:2711:TRP:CH2	2.47	0.49
2:D:3212:THR:HG22	2:D:3213:ALA:N	2.27	0.49
1:A:68:TRP:HA	1:A:245:MET:SD	2.53	0.49
1:A:516:TRP:CG	1:A:605:ILE:CD1	2.94	0.49
1:A:600:ILE:HD11	1:A:760:PHE:HB2	1.94	0.49
1:A:1156:LEU:HD13	1:A:1175:TYR:CE1	2.45	0.49
1:A:1550:PHE:CD2	1:A:1606:ASP:HA	2.47	0.49
1:A:1566:VAL:HG22	1:A:1626:ILE:CB	2.43	0.49
2:B:1963:ILE:HG23	2:B:1964:VAL:N	2.27	0.49
2:B:1964:VAL:HG23	2:B:1965:ARG:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1992:VAL:HG13	2:B:2041:PHE:CD1	2.48	0.49
2:B:2103:LEU:CD1	2:B:2204:PHE:CE2	2.95	0.49
2:B:2854:MET:HB3	2:B:2856:LEU:HG	1.94	0.49
2:B:3277:TYR:CG	2:B:3278:ASP:N	2.80	0.49
1:C:446:PHE:HE2	1:C:455:TYR:HD1	1.60	0.49
1:C:598:PHE:CE2	1:C:636:VAL:CG1	2.95	0.49
1:C:676:LEU:CD2	1:C:676:LEU:H	2.25	0.49
1:C:1257:ARG:NH2	1:C:1332:LEU:HD23	2.28	0.49
1:C:1274:ARG:CA	1:C:1374:PHE:HE1	2.17	0.49
1:C:1487:HIS:CE1	2:D:2038:ASP:CG	2.90	0.49
2:D:1725:HIS:CD2	2:D:1734:HIS:HE1	2.29	0.49
2:D:1795:PHE:CG	2:D:1796:GLU:N	2.80	0.49
2:D:2084:VAL:O	2:D:2169:ALA:HB3	2.12	0.49
2:D:2088:LEU:HD12	2:D:2088:LEU:C	2.38	0.49
2:D:2169:ALA:O	2:D:2171:PRO:HD3	2.12	0.49
2:D:2278:LEU:HA	2:D:2419:LEU:HD21	1.94	0.49
2:D:2717:TYR:CE1	2:D:2779:LYS:CD	2.96	0.49
2:D:2945:PHE:O	2:D:2962:CYS:HB2	2.13	0.49
2:D:2965:HIS:CD2	2:D:2970:PHE:HE1	2.31	0.49
2:D:3204:PHE:CB	2:D:3206:LEU:HD21	2.42	0.49
1:A:130:PHE:HE1	1:A:202:TYR:CE2	2.31	0.49
1:A:192:TYR:CE2	1:A:199:TYR:CE1	3.01	0.49
1:A:251:GLU:HG2	1:A:259:ASN:OD1	2.13	0.49
1:A:421:ASN:OD1	1:A:701:THR:HG21	2.12	0.49
1:A:446:PHE:HE2	1:A:455:TYR:CD1	2.30	0.49
1:A:502:LEU:HB3	1:A:507:ALA:HB3	1.95	0.49
1:A:598:PHE:CZ	1:A:636:VAL:CG1	2.94	0.49
1:A:727:ARG:HA	1:A:782:THR:OG1	2.12	0.49
1:A:810:LEU:CG	1:A:814:LEU:HD22	2.42	0.49
1:A:839:ARG:HA	1:A:924:ALA:HB3	1.94	0.49
1:A:852:GLU:CB	1:A:921:TYR:CD1	2.95	0.49
1:A:891:PHE:HB3	1:A:1183:MET:HG2	1.93	0.49
1:A:903:HIS:CG	1:A:1102:PRO:HB3	2.48	0.49
1:A:1160:ASN:HA	1:A:1171:ALA:H	1.77	0.49
1:A:1242:HIS:HB2	1:A:1476:TYR:CE1	2.41	0.49
1:A:1310:VAL:O	1:A:1316:PHE:HD1	1.94	0.49
1:A:1379:ILE:CD1	1:A:1447:PHE:CE2	2.95	0.49
1:A:1541:GLN:O	1:A:1544:LYS:HB2	2.12	0.49
2:B:1737:TYR:CZ	2:B:1741:PHE:CE1	2.96	0.49
2:B:1994:ARG:HG3	2:B:1995:THR:H	1.77	0.49
2:B:2062:THR:HG23	2:B:2063:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2647:TYR:CE1	2:B:2773:PHE:HE2	2.31	0.49
2:B:2945:PHE:O	2:B:2962:CYS:HB2	2.13	0.49
2:B:2947:GLY:HA3	2:B:3094:GLU:O	2.12	0.49
2:B:2965:HIS:CD2	2:B:2970:PHE:CE1	3.00	0.49
2:B:2976:LEU:CD2	2:B:3155:THR:HG23	2.41	0.49
2:B:2984:ALA:O	2:B:2988:HIS:HD2	1.94	0.49
1:C:94:TRP:HB2	1:C:182:ILE:CD1	2.42	0.49
1:C:128:ILE:CG2	1:C:130:PHE:CE1	2.95	0.49
1:C:407:LYS:CA	1:C:653:PRO:HD2	2.43	0.49
1:C:516:TRP:HD1	1:C:578:LEU:HG	1.77	0.49
1:C:549:ILE:CD1	1:C:622:TYR:HD1	2.25	0.49
1:C:566:LEU:CD1	1:C:608:TRP:CE3	2.94	0.49
1:C:582:ILE:O	1:C:586:PHE:HD1	1.94	0.49
1:C:746:PHE:CZ	1:C:799:THR:CG2	2.95	0.49
1:C:876:HIS:ND1	1:C:1042:PHE:CE2	2.81	0.49
1:C:1059:LEU:HD11	1:C:1063:ARG:HH21	1.76	0.49
1:C:1086:LEU:HB2	1:C:1090:ILE:HG21	1.94	0.49
1:C:1343:TRP:HZ3	1:C:1431:LEU:HD11	1.76	0.49
1:C:1475:PRO:HG2	1:C:1478:GLU:OE1	2.13	0.49
2:D:1789:ILE:HG23	2:D:1790:GLY:N	2.28	0.49
2:D:2140:ILE:HG12	2:D:2143:MET:CG	2.43	0.49
2:D:2152:LEU:HD23	2:D:2329:PHE:CG	2.47	0.49
2:D:2208:TYR:HB3	2:D:2215:TYR:CE1	2.47	0.49
2:D:2647:TYR:CE1	2:D:2773:PHE:HE2	2.31	0.49
2:D:2732:MET:HA	2:D:2755:PRO:HB2	1.95	0.49
2:D:3216:LYS:CE	2:D:3229:TYR:HD2	2.24	0.49
2:D:3308:ILE:HG23	2:D:3309:GLY:N	2.24	0.49
1:A:5:ARG:HH22	1:A:73:VAL:HG23	1.77	0.49
1:A:165:GLN:HE21	1:A:171:PHE:HA	1.75	0.49
1:A:246:GLU:HB3	1:A:247:PRO:CA	2.36	0.49
1:A:604:THR:HG23	1:A:605:ILE:N	2.27	0.49
1:A:1014:ALA:HA	1:A:1017:TYR:CE1	2.47	0.49
1:A:1207:GLU:HA	1:A:1207:GLU:OE1	2.12	0.49
1:A:1268:GLY:HA2	1:A:1271:GLU:OE1	2.13	0.49
1:A:1567:PHE:CG	1:A:1568:VAL:N	2.81	0.49
2:B:1686:LEU:HD12	2:B:1689:MET:CE	2.33	0.49
2:B:1829:LEU:CD1	2:B:1833:GLN:HE22	2.24	0.49
2:B:2140:ILE:CG1	2:B:2143:MET:HB2	2.33	0.49
2:B:2169:ALA:O	2:B:2171:PRO:HD3	2.12	0.49
2:B:2208:TYR:HB3	2:B:2215:TYR:HD1	1.76	0.49
2:B:2264:HIS:CB	2:B:2419:LEU:HD12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2327:ARG:CG	2:B:2331:TYR:CE1	2.95	0.49
2:B:3336:THR:OG1	2:B:3338:PRO:HD2	2.13	0.49
1:C:232:LYS:HD3	1:C:269:ASP:OD1	2.12	0.49
1:C:544:PHE:CD1	1:C:631:PHE:CZ	2.95	0.49
1:C:730:ALA:CB	1:C:781:ILE:HD11	2.43	0.49
1:C:1190:VAL:HG12	1:C:1191:PHE:N	2.27	0.49
2:D:2103:LEU:CD1	2:D:2204:PHE:CZ	2.96	0.49
2:D:2141:HIS:CD2	2:D:2146:PHE:CD2	3.01	0.49
2:D:2175:TRP:HH2	2:D:2266:LEU:HD22	1.72	0.49
2:D:2388:PHE:N	2:D:2432:LEU:HD11	2.27	0.49
2:D:2691:THR:HG23	2:D:2692:THR:N	2.27	0.49
2:D:2754:LYS:O	2:D:2758:VAL:HG23	2.13	0.49
2:D:3009:PHE:HE1	2:D:3019:PHE:CD1	2.31	0.49
2:D:3144:PHE:HD2	2:D:3155:THR:HG23	1.76	0.49
2:D:3182:HIS:CD2	2:D:3186:GLU:OE2	2.65	0.49
2:D:3336:THR:OG1	2:D:3338:PRO:HD2	2.13	0.49
1:A:182:ILE:HD12	1:A:209:HIS:ND1	2.28	0.49
1:A:251:GLU:HG2	1:A:259:ASN:CB	2.42	0.49
1:A:414:VAL:HG22	1:A:415:LYS:N	2.28	0.49
1:A:431:LEU:HD13	1:A:439:LEU:HD12	1.95	0.49
1:A:468:CYS:SG	1:A:668:LYS:HE2	2.52	0.49
1:A:864:LYS:HE2	1:A:864:LYS:CA	2.43	0.49
1:A:996:LEU:CD2	1:A:1129:LEU:HD11	2.42	0.49
1:A:1121:PHE:O	1:A:1122:ASN:HB2	2.12	0.49
1:A:1618:LEU:HD22	1:A:1648:PHE:CB	2.43	0.49
2:B:1723:CYS:SG	2:B:2013:GLU:OE2	2.71	0.49
2:B:2103:LEU:HA	2:B:2106:LEU:HD12	1.95	0.49
2:B:2249:TYR:HD2	2:B:2301:TRP:CH2	2.31	0.49
2:B:2645:PHE:CA	2:B:2648:ARG:HG2	2.42	0.49
2:B:2794:THR:O	2:B:2847:ILE:HG12	2.12	0.49
2:B:2848:THR:CG2	2:B:2852:LYS:HE3	2.42	0.49
2:B:2965:HIS:CD2	2:B:2970:PHE:HE1	2.31	0.49
2:B:2999:TRP:CZ3	2:B:3074:LEU:HD11	2.48	0.49
2:B:3136:ILE:O	2:B:3139:VAL:HG12	2.11	0.49
1:C:246:GLU:HB3	1:C:247:PRO:CA	2.35	0.49
1:C:373:LEU:CD1	1:C:403:HIS:CE1	2.92	0.49
1:C:727:ARG:HA	1:C:782:THR:OG1	2.12	0.49
2:D:1721:ALA:HB2	2:D:2012:LYS:CB	2.43	0.49
2:D:1952:PHE:O	2:D:1955:TRP:HE3	1.95	0.49
2:D:2014:MET:HG3	2:D:2015:PRO:N	2.28	0.49
2:D:2177:LYS:HZ1	2:D:2364:GLY:HA2	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2403:ILE:O	2:D:2410:CYS:HA	2.12	0.49
2:D:2535:TYR:CZ	2:D:2698:TRP:CH2	3.01	0.49
2:D:2786:GLU:O	2:D:2789:LYS:HB2	2.13	0.49
2:D:3047:GLU:HG3	2:D:3047:GLU:O	2.13	0.49
1:A:446:PHE:HE2	1:A:455:TYR:HD1	1.60	0.49
1:A:644:GLN:O	1:A:648:MET:HG3	2.13	0.49
1:A:769:MET:HE3	1:A:769:MET:CA	2.22	0.49
1:A:1059:LEU:HD11	1:A:1063:ARG:HH21	1.76	0.49
1:A:1128:GLN:HA	1:A:1131:LYS:HE2	1.94	0.49
1:A:1249:GLN:HG2	1:A:1470:ARG:HB3	1.95	0.49
1:A:1274:ARG:CA	1:A:1374:PHE:HE1	2.17	0.49
1:A:1334:LYS:HA	1:A:1334:LYS:CE	2.26	0.49
1:A:1437:TYR:CE2	1:A:1444:TYR:CZ	3.01	0.49
1:A:1621:ASP:HB3	2:B:1910:LYS:HG2	1.93	0.49
1:A:1657:THR:HB	2:B:1900:SER:CB	2.35	0.49
2:B:1866:HIS:CE1	2:B:2012:LYS:HG2	2.47	0.49
2:B:1897:LEU:N	2:B:1897:LEU:HD12	2.28	0.49
2:B:2033:MET:HB3	2:B:2035:LEU:HG	1.94	0.49
2:B:2101:TYR:CD2	2:D:1694:SER:N	2.81	0.49
2:B:2141:HIS:CD2	2:B:2146:PHE:CD2	3.01	0.49
2:B:2351:TYR:HB2	2:B:2356:TYR:CE1	2.47	0.49
2:B:2638:PRO:HB2	2:B:2641:GLY:HA2	1.93	0.49
2:B:2994:ILE:HG21	2:B:3104:ILE:HA	1.95	0.49
2:B:3212:THR:HG22	2:B:3213:ALA:N	2.27	0.49
1:C:5:ARG:HD3	1:C:89:LEU:CG	2.43	0.49
1:C:171:PHE:CE2	1:C:175:PHE:CB	2.95	0.49
1:C:431:LEU:HD13	1:C:439:LEU:HD12	1.95	0.49
1:C:1160:ASN:ND2	1:C:1168:CYS:HB3	2.17	0.49
2:D:1695:SER:O	2:D:1700:ALA:HB3	2.13	0.49
2:D:2103:LEU:HA	2:D:2106:LEU:HD12	1.95	0.49
2:D:2141:HIS:O	2:D:2143:MET:HG2	2.12	0.49
2:D:2151:ARG:CZ	2:D:2298:TRP:CZ3	2.95	0.49
2:D:2153:TYR:CE2	2:D:2157:PHE:HE1	2.30	0.49
2:D:2568:HIS:CD2	2:D:2708:TRP:CH2	2.99	0.49
2:D:2605:PHE:HE2	2:D:2614:PHE:CZ	2.30	0.49
1:A:11:LEU:HD12	1:A:104:LEU:CD1	2.42	0.49
1:A:136:ASN:O	1:A:193:SER:HB3	2.13	0.49
1:A:676:LEU:CD2	1:A:676:LEU:H	2.25	0.49
1:A:679:ASN:OD1	1:A:681:LYS:HB2	2.13	0.49
1:A:1161:ILE:HB	1:A:1198:LYS:HZ3	1.72	0.49
1:A:1345:TRP:CZ2	1:A:1430:LEU:CD2	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1567:PHE:CD2	1:A:1568:VAL:N	2.81	0.49
1:A:1646:ILE:HD13	2:B:1906:VAL:HG21	1.93	0.49
2:B:1974:PHE:HB2	2:B:2066:ILE:HD11	1.95	0.49
2:B:2258:VAL:HG11	2:B:2433:PHE:HZ	1.75	0.49
2:B:2393:ILE:CD1	2:B:2397:ALA:HB3	2.43	0.49
2:B:2535:TYR:CZ	2:B:2698:TRP:CH2	3.01	0.49
2:B:2619:ILE:HG22	2:B:2622:LEU:H	1.78	0.49
2:B:3010:PHE:CZ	2:B:3104:ILE:HD11	2.48	0.49
2:B:3076:ASN:HB3	2:B:3236:LEU:CD1	2.42	0.49
2:B:3164:VAL:HG12	2:B:3164:VAL:O	2.13	0.49
2:B:3343:GLY:C	2:B:3348:MET:HG2	2.38	0.49
1:C:177:LEU:CD1	1:C:358:TYR:CD1	2.95	0.49
1:C:312:PHE:HD1	1:C:351:LYS:CD	2.26	0.49
1:C:414:VAL:HG22	1:C:415:LYS:N	2.28	0.49
1:C:502:LEU:HB3	1:C:507:ALA:HB3	1.94	0.49
1:C:513:TYR:HB2	1:C:635:ASN:CA	2.43	0.49
1:C:604:THR:HG23	1:C:605:ILE:N	2.27	0.49
1:C:783:HIS:ND1	1:C:784:VAL:HG23	2.28	0.49
1:C:1566:VAL:HG22	1:C:1626:ILE:CB	2.43	0.49
1:C:1628:ILE:CD1	1:C:1636:LEU:HD12	2.42	0.49
2:D:2033:MET:HB3	2:D:2035:LEU:HG	1.94	0.49
2:D:2136:VAL:CG1	2:D:2425:MET:HB2	2.43	0.49
2:D:2149:TRP:CD1	2:D:2326:MET:CG	2.95	0.49
2:D:2249:TYR:HD2	2:D:2301:TRP:CH2	2.31	0.49
2:D:2385:PHE:CE1	2:D:2485:GLU:CG	2.95	0.49
2:D:2854:MET:HB3	2:D:2856:LEU:HG	1.94	0.49
2:D:2908:VAL:HG13	2:D:2908:VAL:O	2.12	0.49
2:D:2942:ILE:HG23	2:D:3103:MET:HE1	1.95	0.49
2:D:3147:GLU:O	2:D:3148:SER:HB3	2.12	0.49
1:A:248:PHE:HD1	1:A:258:THR:HG21	1.73	0.48
1:A:286:THR:HG23	1:A:287:PRO:HD2	1.95	0.48
1:A:373:LEU:CD1	1:A:403:HIS:CE1	2.92	0.48
1:A:498:VAL:HG13	1:A:499:GLU:N	2.26	0.48
1:A:514:TRP:CZ3	1:A:628:LEU:HD11	2.47	0.48
1:A:544:PHE:CD1	1:A:631:PHE:CZ	2.95	0.48
1:A:1409:GLU:CD	1:A:1544:LYS:NZ	2.69	0.48
1:A:1585:MET:HE1	1:A:1587:SER:OG	2.11	0.48
2:B:1666:MET:HE3	2:B:1742:GLN:NE2	2.28	0.48
2:B:1757:TRP:CE3	2:B:1759:TRP:CH2	3.02	0.48
2:B:1973:VAL:HG12	2:B:2067:TYR:HD1	1.78	0.48
2:B:2146:PHE:HD1	2:B:2147:PRO:CD	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2153:TYR:CE2	2:B:2157:PHE:HE1	2.30	0.48
2:B:2393:ILE:HD12	2:B:2397:ALA:HB3	1.95	0.48
2:B:2659:PHE:HA	2:B:2711:TRP:CH2	2.48	0.48
2:B:3009:PHE:HE1	2:B:3019:PHE:CD1	2.31	0.48
2:B:3219:ILE:HG12	2:B:3230:ALA:HB2	1.95	0.48
1:C:159:VAL:HG23	1:C:160:LEU:N	2.27	0.48
1:C:248:PHE:HD1	1:C:258:THR:HG21	1.73	0.48
1:C:421:ASN:OD1	1:C:701:THR:HG21	2.12	0.48
1:C:514:TRP:CE3	1:C:628:LEU:CD1	2.86	0.48
1:C:1143:PHE:CE2	1:C:1194:ASP:HB2	2.48	0.48
1:C:1156:LEU:HD12	1:C:1174:PHE:O	2.13	0.48
2:D:1860:TYR:HD2	2:D:1867:TYR:CE1	2.30	0.48
2:D:1897:LEU:N	2:D:1897:LEU:HD12	2.27	0.48
2:D:2172:TYR:HB2	2:D:2293:PHE:N	2.28	0.48
2:D:2243:ALA:HB2	2:D:2255:GLN:HG3	1.95	0.48
2:D:2393:ILE:CD1	2:D:2397:ALA:HB3	2.43	0.48
2:D:2812:ASP:HA	2:D:2823:ALA:H	1.78	0.48
2:D:2847:ILE:HB	2:D:2851:LEU:HD11	1.94	0.48
2:D:3363:LEU:HD22	2:D:3363:LEU:N	2.27	0.48
1:A:104:LEU:HB2	1:A:123:TRP:HZ3	1.78	0.48
1:A:183:HIS:HD1	1:A:194:MET:HG3	1.69	0.48
1:A:431:LEU:HD13	1:A:439:LEU:CD1	2.43	0.48
1:A:468:CYS:SG	1:A:477:TYR:CE1	3.06	0.48
1:A:486:ILE:N	1:A:662:LEU:HD21	2.28	0.48
1:A:549:ILE:CD1	1:A:622:TYR:HD1	2.25	0.48
1:A:551:PHE:CD2	1:A:552:GLU:N	2.81	0.48
1:A:746:PHE:HE2	1:A:754:GLN:NE2	2.11	0.48
1:A:931:THR:CA	1:A:991:ILE:HG21	2.38	0.48
1:A:1345:TRP:CH2	1:A:1400:PHE:HE2	2.31	0.48
1:A:1628:ILE:CD1	1:A:1636:LEU:HD12	2.42	0.48
1:A:1656:HIS:CA	2:B:1898:SER:CB	2.77	0.48
1:A:1656:HIS:C	2:B:1898:SER:CB	2.85	0.48
2:B:1952:PHE:O	2:B:1955:TRP:HE3	1.95	0.48
2:B:2153:TYR:CZ	2:B:2157:PHE:CE1	2.95	0.48
2:B:2155:LEU:HD22	2:B:2155:LEU:N	2.28	0.48
2:B:2172:TYR:HB2	2:B:2293:PHE:N	2.28	0.48
2:B:2243:ALA:HB2	2:B:2255:GLN:HG3	1.95	0.48
2:B:2416:ILE:HG22	2:B:2417:PHE:N	2.27	0.48
2:B:2656:GLN:OE1	2:B:2656:GLN:HA	2.14	0.48
2:B:2950:ASN:OD1	2:B:2961:PRO:HG3	2.12	0.48
1:C:97:PRO:HB3	1:C:146:LYS:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:192:TYR:CE2	1:C:199:TYR:CE1	3.01	0.48
1:C:215:ARG:HB3	1:C:215:ARG:HH11	1.78	0.48
1:C:486:ILE:N	1:C:662:LEU:HD21	2.28	0.48
1:C:698:LEU:CD1	1:C:700:TYR:CD1	2.95	0.48
1:C:748:LYS:NZ	1:C:797:GLU:OE1	2.45	0.48
1:C:957:ASN:HD22	1:C:957:ASN:N	2.10	0.48
1:C:1157:VAL:HB	1:C:1174:PHE:CZ	2.48	0.48
1:C:1319:TRP:CE3	1:C:1320:HIS:HA	2.49	0.48
1:C:1420:LEU:HD12	1:C:1423:LEU:HD21	1.93	0.48
2:D:1939:ASP:HB3	2:D:1942:LYS:HE3	1.95	0.48
2:D:2148:HIS:CG	2:D:2345:PRO:HB3	2.48	0.48
2:D:2196:ARG:O	2:D:2197:ASN:HB2	2.13	0.48
2:D:2252:PHE:CZ	2:D:2256:PHE:HD1	2.32	0.48
2:D:2535:TYR:O	2:D:2538:ILE:HG12	2.12	0.48
2:D:2797:ALA:CB	2:D:2842:LEU:HD13	2.43	0.48
2:D:2942:ILE:HG23	2:D:3103:MET:CE	2.43	0.48
2:D:2959:LYS:HZ1	2:D:3240:LYS:HE2	1.76	0.48
2:D:2999:TRP:CZ3	2:D:3074:LEU:HD11	2.48	0.48
2:D:3215:VAL:HG12	2:D:3275:LYS:HB3	1.94	0.48
1:A:5:ARG:HD3	1:A:89:LEU:CG	2.43	0.48
1:A:97:PRO:HB3	1:A:146:LYS:H	1.77	0.48
1:A:305:ALA:HB2	1:A:362:LEU:CD1	2.39	0.48
1:A:598:PHE:CE2	1:A:636:VAL:CG1	2.95	0.48
1:A:1289:ILE:HA	1:A:1292:PHE:CD2	2.48	0.48
1:A:1548:ARG:HA	1:A:1608:THR:HG21	1.94	0.48
1:A:1568:VAL:HG11	1:A:1622:PHE:CG	2.48	0.48
2:B:1842:GLN:HA	2:B:2022:TYR:HE1	1.78	0.48
2:B:1909:MET:HE3	2:B:1935:GLU:HA	1.95	0.48
2:B:1974:PHE:HB2	2:B:2066:ILE:CG1	2.43	0.48
2:B:2014:MET:HG3	2:B:2015:PRO:N	2.28	0.48
2:B:2094:ARG:CB	2:D:1747:LYS:HZ2	2.23	0.48
2:B:2140:ILE:HG12	2:B:2143:MET:CG	2.43	0.48
2:B:2382:VAL:HG12	2:B:2383:ARG:N	2.27	0.48
2:B:2797:ALA:HB1	2:B:2842:LEU:CB	2.44	0.48
2:B:3144:PHE:HA	2:B:3149:VAL:CG1	2.44	0.48
2:B:3215:VAL:HG21	2:B:3233:PHE:CE2	2.45	0.48
2:B:3215:VAL:HG12	2:B:3275:LYS:HB3	1.94	0.48
1:C:101:LEU:CD2	1:C:137:ARG:HH22	2.24	0.48
1:C:122:TYR:CD1	1:C:122:TYR:N	2.82	0.48
1:C:174:GLN:HA	1:C:358:TYR:CE1	2.42	0.48
1:C:304:PHE:C	1:C:362:LEU:HD13	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:PHE:CE2	1:C:455:TYR:CA	2.94	0.48
1:C:973:ARG:HD2	1:C:1022:VAL:HG11	1.91	0.48
1:C:1242:HIS:CD2	1:C:1476:TYR:OH	2.66	0.48
2:D:1759:TRP:HH2	2:D:1877:HIS:HB2	1.75	0.48
2:D:1913:LEU:HD12	2:D:1913:LEU:N	2.28	0.48
2:D:1924:LEU:HD22	2:D:1924:LEU:H	1.77	0.48
2:D:2149:TRP:CE3	2:D:2150:HIS:HA	2.48	0.48
2:D:2289:ILE:HD12	2:D:2289:ILE:H	1.77	0.48
2:D:2389:LEU:HD13	2:D:2478:HIS:CB	2.43	0.48
2:D:2947:GLY:HA3	2:D:3094:GLU:O	2.12	0.48
2:D:3219:ILE:HG12	2:D:3230:ALA:HB2	1.95	0.48
1:A:432:THR:HG23	1:A:434:GLU:N	2.29	0.48
1:A:513:TYR:HB2	1:A:635:ASN:CA	2.43	0.48
1:A:676:LEU:HD22	1:A:676:LEU:H	1.76	0.48
1:A:1242:HIS:CD2	1:A:1476:TYR:OH	2.66	0.48
1:A:1261:ASN:O	1:A:1265:LEU:HD22	2.13	0.48
1:A:1292:PHE:CE1	1:A:1492:PRO:HB2	2.49	0.48
1:A:1362:TYR:CE2	1:A:1364:SER:CA	2.95	0.48
1:A:1399:TYR:HA	1:A:1402:GLU:OE2	2.13	0.48
2:B:1711:CYS:SG	2:B:1722:CYS:CA	3.01	0.48
2:B:1789:ILE:HG23	2:B:1790:GLY:N	2.28	0.48
2:B:1988:VAL:HG12	2:B:2047:ILE:CG1	2.18	0.48
2:B:2278:LEU:HA	2:B:2419:LEU:HD21	1.94	0.48
2:B:2389:LEU:HD13	2:B:2478:HIS:CB	2.43	0.48
2:B:2446:ILE:HA	2:B:2450:ASP:OD2	2.13	0.48
2:B:2646:PHE:HZ	2:B:2676:TRP:HZ3	1.60	0.48
2:B:2732:MET:HA	2:B:2755:PRO:HB2	1.95	0.48
2:B:3147:GLU:O	2:B:3148:SER:HB3	2.12	0.48
2:B:3176:ASN:ND2	2:B:3178:ASN:HB2	2.28	0.48
2:B:3317:LYS:HZ3	2:B:3393:VAL:HG22	1.78	0.48
1:C:147:VAL:O	1:C:148:LYS:HB3	2.13	0.48
1:C:251:GLU:HG2	1:C:259:ASN:CB	2.42	0.48
1:C:286:THR:HG23	1:C:287:PRO:HD2	1.95	0.48
1:C:318:VAL:HG23	1:C:382:GLU:O	2.13	0.48
1:C:428:ILE:HD12	1:C:513:TYR:O	2.14	0.48
1:C:468:CYS:SG	1:C:477:TYR:CE1	3.06	0.48
1:C:503:VAL:HG23	1:C:504:GLY:N	2.27	0.48
1:C:903:HIS:CG	1:C:1102:PRO:HB3	2.48	0.48
1:C:1261:ASN:O	1:C:1265:LEU:HD22	2.13	0.48
1:C:1381:HIS:HE2	1:C:1447:PHE:HZ	1.58	0.48
1:C:1395:PHE:CZ	1:C:1430:LEU:CB	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1437:TYR:CE2	1:C:1444:TYR:CZ	3.01	0.48
1:C:1476:TYR:HE2	1:C:1477:ARG:HB2	1.66	0.48
1:C:1568:VAL:HG11	1:C:1622:PHE:CG	2.48	0.48
2:D:2124:LEU:HB2	2:D:2279:HIS:HB2	1.91	0.48
2:D:2294:VAL:HG13	2:D:2295:ASP:N	2.27	0.48
2:D:2602:LEU:HB3	2:D:2603:PRO:CD	2.42	0.48
2:D:2862:PHE:CE1	2:D:2864:PHE:CE1	2.98	0.48
2:D:2981:PHE:HE2	2:D:2994:ILE:HD12	1.77	0.48
2:D:3048:PHE:HD2	2:D:3052:PHE:HB3	1.74	0.48
1:A:19:LEU:HD12	1:A:85:ARG:HD3	1.94	0.48
1:A:21:ALA:C	1:A:24:ARG:HG2	2.39	0.48
1:A:94:TRP:HB3	1:A:182:ILE:HD11	1.95	0.48
1:A:156:MET:HE3	1:A:285:MET:HE1	1.92	0.48
1:A:246:GLU:CB	1:A:247:PRO:HA	2.32	0.48
1:A:503:VAL:HG23	1:A:504:GLY:N	2.27	0.48
1:A:526:LEU:O	1:A:526:LEU:HD23	2.13	0.48
1:A:746:PHE:CZ	1:A:799:THR:CB	2.95	0.48
1:A:837:LEU:HD21	1:A:917:ARG:CZ	2.43	0.48
1:A:1156:LEU:HD12	1:A:1174:PHE:O	2.13	0.48
1:A:1157:VAL:HB	1:A:1174:PHE:CZ	2.48	0.48
1:A:1475:PRO:HG2	1:A:1478:GLU:OE1	2.13	0.48
1:A:1520:GLY:O	1:A:1521:TYR:HD1	1.92	0.48
1:A:1550:PHE:CE2	1:A:1606:ASP:HB2	2.48	0.48
1:A:1570:LEU:HD21	1:A:1616:VAL:HG13	1.95	0.48
2:B:2084:VAL:O	2:B:2169:ALA:HB3	2.12	0.48
2:B:2141:HIS:O	2:B:2143:MET:HG2	2.12	0.48
2:B:2387:GLY:HA3	2:B:2432:LEU:CD2	2.23	0.48
2:B:2464:VAL:O	2:B:2464:VAL:HG13	2.14	0.48
2:B:3020:PHE:CE2	2:B:3021:LYS:CE	2.95	0.48
2:B:3132:CYS:SG	2:B:3133:ALA:N	2.87	0.48
2:B:3306:ILE:HG21	2:B:3329:MET:SD	2.54	0.48
2:B:3335:VAL:HG23	2:B:3335:VAL:O	2.13	0.48
1:C:68:TRP:HA	1:C:245:MET:SD	2.53	0.48
1:C:94:TRP:HB3	1:C:182:ILE:HD11	1.95	0.48
1:C:94:TRP:CG	1:C:182:ILE:HD11	2.48	0.48
1:C:104:LEU:HB2	1:C:123:TRP:CZ3	2.48	0.48
1:C:552:GLU:HG3	1:C:554:ASN:CB	2.42	0.48
1:C:646:LEU:HD23	1:C:646:LEU:C	2.37	0.48
1:C:852:GLU:HB2	1:C:921:TYR:HE1	1.73	0.48
1:C:880:LYS:HD3	1:C:880:LYS:H	1.78	0.48
1:C:1018:ILE:HG13	1:C:1045:HIS:ND1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1185:TRP:CH2	1:C:1187:TYR:CE2	3.01	0.48
1:C:1289:ILE:HA	1:C:1292:PHE:CD2	2.48	0.48
1:C:1618:LEU:HD22	1:C:1648:PHE:CB	2.43	0.48
1:C:1662:THR:O	2:D:1893:ARG:CD	2.39	0.48
2:D:1741:PHE:CE2	2:D:1875:TYR:CZ	3.02	0.48
2:D:1808:ARG:CZ	2:D:1808:ARG:HA	2.44	0.48
2:D:1823:PHE:CE2	2:D:1853:TRP:CZ3	3.02	0.48
2:D:1974:PHE:HB2	2:D:2066:ILE:CG1	2.43	0.48
2:D:2141:HIS:HD2	2:D:2146:PHE:CD2	2.32	0.48
2:D:2200:MET:CG	2:D:2201:PRO:HD2	2.44	0.48
2:D:2523:MET:O	2:D:2527:MET:HG3	2.13	0.48
2:D:2732:MET:HE3	2:D:2755:PRO:HB2	1.95	0.48
1:A:147:VAL:O	1:A:148:LYS:HB3	2.13	0.48
1:A:215:ARG:HB3	1:A:215:ARG:HH11	1.78	0.48
1:A:373:LEU:H	1:A:373:LEU:CD2	2.26	0.48
1:A:478:ALA:N	1:A:767:LYS:HG2	2.29	0.48
1:A:623:THR:HG1	1:A:629:PHE:HD1	1.58	0.48
1:A:646:LEU:HD23	1:A:646:LEU:C	2.37	0.48
1:A:1248:TYR:HB3	1:A:1470:ARG:NH1	2.28	0.48
1:A:1657:THR:HA	2:B:1901:GLU:OE2	2.14	0.48
2:B:1695:SER:O	2:B:1700:ALA:HB3	2.13	0.48
2:B:1721:ALA:HB2	2:B:2012:LYS:CB	2.43	0.48
2:B:2118:ILE:HA	2:B:2121:PHE:CE1	2.48	0.48
2:B:2136:VAL:CG1	2:B:2425:MET:HB2	2.44	0.48
2:B:2354:LEU:HB2	2:B:2356:TYR:CD1	2.48	0.48
2:B:2981:PHE:CE2	2:B:2994:ILE:HD12	2.48	0.48
2:B:3264:THR:HB	2:B:3267:HIS:HB3	1.96	0.48
1:C:101:LEU:HB2	1:C:106:ALA:HB2	1.96	0.48
1:C:486:ILE:HB	1:C:662:LEU:CG	2.44	0.48
1:C:502:LEU:HA	1:C:505:ARG:HD2	1.95	0.48
1:C:911:GLN:HE22	1:C:1091:ASN:ND2	2.12	0.48
2:D:1765:GLU:HG2	2:D:1766:LEU:O	2.14	0.48
2:D:1974:PHE:HB2	2:D:2066:ILE:HD11	1.95	0.48
2:D:2155:LEU:HD22	2:D:2155:LEU:N	2.28	0.48
2:D:2155:LEU:CD1	2:D:2354:LEU:HB3	2.44	0.48
2:D:2354:LEU:HB2	2:D:2356:TYR:CD1	2.48	0.48
2:D:2371:ILE:HG13	2:D:2372:GLU:N	2.28	0.48
2:D:3010:PHE:CZ	2:D:3104:ILE:HD11	2.47	0.48
2:D:3164:VAL:HG12	2:D:3164:VAL:O	2.13	0.48
1:A:179:HIS:ND1	1:A:209:HIS:NE2	2.59	0.48
1:A:428:ILE:HD12	1:A:513:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:GLN:NE2	1:A:828:LYS:HG2	2.28	0.48
1:A:745:ILE:HD12	1:A:800:VAL:HG22	1.96	0.48
1:A:876:HIS:ND1	1:A:1042:PHE:CE2	2.81	0.48
1:A:1310:VAL:O	1:A:1311:HIS:HD2	1.97	0.48
1:A:1319:TRP:CE3	1:A:1320:HIS:HA	2.48	0.48
1:A:1345:TRP:CH2	1:A:1426:ALA:CB	2.96	0.48
1:A:1555:LEU:HB2	1:A:1599:PHE:CE2	2.48	0.48
2:B:1759:TRP:CH2	2:B:1877:HIS:CB	2.94	0.48
2:B:2103:LEU:CD1	2:B:2204:PHE:CZ	2.96	0.48
2:B:2128:CYS:HB3	2:B:2138:CYS:HA	1.96	0.48
2:B:2786:GLU:O	2:B:2789:LYS:HB2	2.13	0.48
2:B:2812:ASP:HA	2:B:2823:ALA:H	1.78	0.48
1:C:66:PRO:O	1:C:70:ARG:HG3	2.13	0.48
1:C:251:GLU:HG2	1:C:259:ASN:OD1	2.13	0.48
1:C:600:ILE:HD11	1:C:760:PHE:HB2	1.94	0.48
1:C:676:LEU:HD22	1:C:676:LEU:H	1.77	0.48
1:C:1340:VAL:O	1:C:1340:VAL:HG13	2.14	0.48
1:C:1392:ASP:CB	1:C:1395:PHE:CE1	2.95	0.48
1:C:1567:PHE:CG	1:C:1568:VAL:N	2.81	0.48
1:C:1621:ASP:O	1:C:1621:ASP:OD1	2.32	0.48
1:C:1656:HIS:O	2:D:1901:GLU:OE2	2.31	0.48
2:D:1757:TRP:CE3	2:D:1759:TRP:CH2	3.02	0.48
2:D:2118:ILE:HA	2:D:2121:PHE:CE1	2.48	0.48
2:D:2656:GLN:HA	2:D:2656:GLN:OE1	2.14	0.48
2:D:2994:ILE:HG21	2:D:3104:ILE:HA	1.94	0.48
2:D:3132:CYS:SG	2:D:3133:ALA:N	2.87	0.48
1:A:8:VAL:HG21	1:A:208:LEU:HD23	1.96	0.48
1:A:101:LEU:HB2	1:A:106:ALA:HB2	1.96	0.48
1:A:458:THR:HA	1:A:461:TYR:HE1	1.76	0.48
1:A:1079:GLU:O	1:A:1102:PRO:HD2	2.13	0.48
1:A:1185:TRP:CH2	1:A:1187:TYR:CE2	3.02	0.48
1:A:1243:HIS:HD2	1:A:1246:GLU:HB2	1.79	0.48
1:A:1319:TRP:CD1	1:A:1490:LEU:CD2	2.95	0.48
1:A:1621:ASP:OD1	1:A:1621:ASP:O	2.32	0.48
2:B:1806:ILE:CD1	2:B:1854:VAL:HG12	2.43	0.48
2:B:1808:ARG:CZ	2:B:1808:ARG:HA	2.44	0.48
2:B:1966:ASN:HA	2:B:1969:GLU:HG2	1.95	0.48
2:B:2100:LYS:HD3	2:B:2100:LYS:C	2.39	0.48
2:B:2356:TYR:CE2	2:B:2358:TYR:CE2	3.02	0.48
2:B:2868:ILE:HB	2:B:2876:LEU:HB2	1.95	0.48
2:B:3243:PRO:HG2	2:D:3354:PRO:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3327:MET:HG2	2:B:3328:PHE:N	2.27	0.48
1:C:5:ARG:CZ	1:C:89:LEU:HD22	2.40	0.48
1:C:60:HIS:CE1	1:C:197:LEU:HD21	2.49	0.48
1:C:130:PHE:HD1	1:C:202:TYR:HH	1.57	0.48
1:C:288:GLU:OE1	1:C:288:GLU:HA	2.13	0.48
1:C:431:LEU:HD13	1:C:439:LEU:CD1	2.43	0.48
1:C:464:LEU:CD1	1:C:551:PHE:CE2	2.95	0.48
1:C:557:HIS:HB3	1:C:613:GLU:OE1	2.14	0.48
1:C:644:GLN:O	1:C:648:MET:HG3	2.13	0.48
1:C:724:GLN:NE2	1:C:828:LYS:HG2	2.28	0.48
1:C:746:PHE:CZ	1:C:799:THR:CB	2.95	0.48
1:C:746:PHE:HE2	1:C:754:GLN:NE2	2.11	0.48
1:C:1249:GLN:HG2	1:C:1470:ARG:HB3	1.94	0.48
1:C:1310:VAL:O	1:C:1311:HIS:HD2	1.97	0.48
1:C:1345:TRP:CH2	1:C:1426:ALA:CB	2.96	0.48
1:C:1567:PHE:CD2	1:C:1568:VAL:N	2.81	0.48
2:D:1711:CYS:SG	2:D:1722:CYS:CA	3.01	0.48
2:D:2100:LYS:HD3	2:D:2100:LYS:C	2.39	0.48
2:D:2170:VAL:CG1	2:D:2288:PHE:CD1	2.95	0.48
2:D:2393:ILE:HD12	2:D:2397:ALA:HB3	1.95	0.48
2:D:2645:PHE:CA	2:D:2648:ARG:HG2	2.42	0.48
2:D:2984:ALA:O	2:D:2987:LYS:HG2	2.14	0.48
2:D:3176:ASN:ND2	2:D:3178:ASN:HB2	2.28	0.48
2:D:3343:GLY:C	2:D:3348:MET:HG2	2.38	0.48
1:A:104:LEU:HB2	1:A:123:TRP:CZ3	2.48	0.48
1:A:288:GLU:OE1	1:A:288:GLU:HA	2.13	0.48
1:A:318:VAL:HG23	1:A:382:GLU:O	2.13	0.48
1:A:407:LYS:CA	1:A:653:PRO:HD2	2.43	0.48
1:A:560:ARG:HH22	1:A:628:LEU:HB3	1.77	0.48
1:A:685:ASN:HB3	1:A:690:LYS:HD3	1.96	0.48
1:A:791:THR:CG2	1:A:794:GLY:H	2.18	0.48
1:A:911:GLN:HE22	1:A:1091:ASN:ND2	2.12	0.48
1:A:1034:ARG:HG3	1:A:1035:TYR:N	2.29	0.48
1:A:1549:VAL:CG1	1:A:1607:ILE:HG13	2.25	0.48
2:B:1763:ARG:HB2	2:B:1763:ARG:CZ	2.44	0.48
2:B:1778:PRO:HB3	2:D:1817:LYS:HD3	1.93	0.48
2:B:1939:ASP:HB3	2:B:1942:LYS:HE3	1.95	0.48
2:B:2195:TRP:CD1	2:D:1695:SER:HA	2.48	0.48
2:B:2200:MET:CG	2:B:2201:PRO:HD2	2.44	0.48
2:B:2252:PHE:CZ	2:B:2256:PHE:HD1	2.32	0.48
2:B:3024:ILE:O	2:B:3025:ARG:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3320:VAL:CG1	2:B:3321:LYS:H	2.14	0.48
1:C:22:ALA:CB	1:C:83:LYS:HB3	2.33	0.48
1:C:405:PRO:CB	1:C:657:HIS:HB3	2.44	0.48
1:C:478:ALA:N	1:C:767:LYS:HG2	2.29	0.48
1:C:1189:ARG:NH1	2:D:2431:ARG:CA	2.62	0.48
1:C:1243:HIS:HD2	1:C:1246:GLU:HB2	1.79	0.48
1:C:1249:GLN:CG	1:C:1476:TYR:CB	2.85	0.48
1:C:1555:LEU:HB2	1:C:1599:PHE:CE2	2.48	0.48
2:D:2140:ILE:CG1	2:D:2143:MET:HB2	2.34	0.48
2:D:2341:LYS:HD3	2:D:2341:LYS:C	2.39	0.48
2:D:2636:ASN:HB2	2:D:2646:PHE:CE2	2.48	0.48
2:D:2764:PHE:CB	2:D:2766:PHE:CE2	2.97	0.48
2:D:2981:PHE:CE2	2:D:2994:ILE:HD12	2.48	0.48
2:D:3274:LEU:HD13	2:D:3275:LYS:N	2.29	0.48
2:D:3335:VAL:O	2:D:3335:VAL:HG23	2.13	0.48
1:A:305:ALA:HB3	1:A:362:LEU:HD11	1.95	0.48
1:A:312:PHE:HD1	1:A:351:LYS:CD	2.26	0.48
1:A:362:LEU:HD12	1:A:362:LEU:N	2.29	0.48
1:A:560:ARG:HD2	1:A:609:THR:CA	2.34	0.48
1:A:730:ALA:CB	1:A:781:ILE:HD11	2.43	0.48
1:A:1366:GLN:HB3	1:A:1368:HIS:CD2	2.49	0.48
2:B:1854:VAL:HG23	2:B:1855:GLY:N	2.29	0.48
2:B:1922:TYR:HE1	2:D:2195:TRP:C	2.18	0.48
2:B:1936:ASP:O	2:B:1942:LYS:HD2	2.14	0.48
2:B:2149:TRP:CE3	2:B:2150:HIS:HA	2.48	0.48
2:B:2212:HIS:HB3	2:B:2214:THR:OG1	2.14	0.48
2:B:2402:GLN:HA	2:B:2413:GLY:H	1.77	0.48
2:B:2498:SER:H	2:B:3397:ASP:CG	2.22	0.48
2:B:2687:THR:HG23	2:B:2690:TYR:HB2	1.95	0.48
2:B:2691:THR:HG23	2:B:2692:THR:N	2.27	0.48
2:B:2821:HIS:HB3	2:B:2850:VAL:HG13	1.96	0.48
2:B:3347:ALA:C	2:B:3350:LYS:HD3	2.39	0.48
1:C:423:LEU:HD22	1:C:423:LEU:N	2.29	0.48
1:C:560:ARG:NH1	1:C:628:LEU:HD22	2.29	0.48
1:C:602:HIS:HD1	1:C:636:VAL:CG2	2.26	0.48
1:C:685:ASN:HB3	1:C:690:LYS:HD3	1.96	0.48
1:C:903:HIS:CD2	1:C:1053:TRP:CH2	3.01	0.48
1:C:1075:THR:O	2:D:2456:GLU:CG	2.62	0.48
1:C:1189:ARG:HH21	2:D:2431:ARG:HB3	1.77	0.48
1:C:1550:PHE:CE2	1:C:1606:ASP:HB2	2.48	0.48
1:C:1570:LEU:HD21	1:C:1616:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1666:MET:HE3	2:D:1742:GLN:NE2	2.28	0.48
2:D:1763:ARG:HB2	2:D:1763:ARG:CZ	2.44	0.48
2:D:1966:ASN:HA	2:D:1969:GLU:HG2	1.95	0.48
2:D:2452:PHE:CD2	2:D:2458:PHE:HD1	2.32	0.48
2:D:2868:ILE:HB	2:D:2876:LEU:HB2	1.95	0.48
2:D:3347:ALA:C	2:D:3350:LYS:HD3	2.39	0.48
1:A:97:PRO:CB	1:A:146:LYS:HA	2.44	0.47
1:A:187:GLY:HA3	1:A:195:ALA:HB2	1.96	0.47
1:A:312:PHE:CD2	1:A:313:GLY:N	2.82	0.47
1:A:638:ARG:CG	1:A:702:TYR:CE1	2.95	0.47
1:A:928:TRP:HE1	1:A:934:LEU:HD12	1.79	0.47
1:A:1349:ILE:HD12	1:A:1351:HIS:O	2.14	0.47
2:B:1704:PHE:O	2:B:1722:CYS:HB2	2.14	0.47
2:B:1823:PHE:CE2	2:B:1853:TRP:CZ3	3.02	0.47
2:B:1913:LEU:HD12	2:B:1913:LEU:N	2.28	0.47
2:B:2105:SER:OG	2:B:2164:HIS:HD2	1.97	0.47
2:B:3043:THR:O	2:B:3048:PHE:HA	2.14	0.47
2:B:3083:GLY:CA	2:B:3089:SER:HB2	2.43	0.47
2:B:3383:LEU:HD13	2:B:3383:LEU:C	2.39	0.47
1:C:8:VAL:HG21	1:C:208:LEU:HD23	1.96	0.47
1:C:97:PRO:CB	1:C:146:LYS:HA	2.44	0.47
1:C:130:PHE:HE1	1:C:202:TYR:CE2	2.31	0.47
1:C:136:ASN:O	1:C:193:SER:HB3	2.13	0.47
1:C:674:SER:HB3	1:C:675:PRO:CD	2.40	0.47
2:D:1714:PRO:HB3	2:D:1922:TYR:CZ	2.44	0.47
2:D:1786:ASN:OD1	2:D:1788:PHE:HB2	2.14	0.47
2:D:2036:ARG:H	2:D:2039:GLU:CG	2.27	0.47
2:D:2149:TRP:HD1	2:D:2326:MET:CG	2.27	0.47
2:D:2154:THR:CA	2:D:2288:PHE:CE2	2.95	0.47
2:D:2356:TYR:CE2	2:D:2358:TYR:CE2	3.02	0.47
2:D:2416:ILE:HG22	2:D:2417:PHE:N	2.28	0.47
2:D:2619:ILE:HG22	2:D:2622:LEU:H	1.78	0.47
2:D:3083:GLY:CA	2:D:3089:SER:HB2	2.43	0.47
2:D:3160:LEU:HD13	2:D:3161:PRO:N	2.29	0.47
2:D:3347:ALA:HA	2:D:3350:LYS:HD3	1.96	0.47
1:A:318:VAL:CG1	1:A:341:PHE:CE1	2.95	0.47
1:A:423:LEU:HD22	1:A:423:LEU:N	2.29	0.47
1:A:602:HIS:HD1	1:A:636:VAL:CG2	2.26	0.47
1:A:866:ALA:CA	1:A:871:GLN:HG2	2.45	0.47
1:A:925:LEU:HD13	1:A:1043:TYR:HB3	1.96	0.47
1:A:1214:TYR:HE1	1:A:1231:GLN:HE22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1257:ARG:NH2	1:A:1332:LEU:HD23	2.28	0.47
1:A:1550:PHE:HE1	1:A:1649:GLU:HG2	1.79	0.47
2:B:1851:HIS:HA	2:B:1862:ILE:HG21	1.95	0.47
2:B:2036:ARG:H	2:B:2039:GLU:CG	2.27	0.47
2:B:2085:ARG:HA	2:B:2169:ALA:HB3	1.96	0.47
2:B:2208:TYR:CE2	2:B:2210:PRO:HG3	2.49	0.47
2:B:2341:LYS:HD3	2:B:2341:LYS:C	2.39	0.47
2:B:2580:ALA:O	2:B:2584:HIS:HD2	1.97	0.47
2:B:3029:GLN:CD	2:B:3088:TYR:CG	2.93	0.47
1:C:67:HIS:HA	1:C:267:LEU:HG	1.96	0.47
1:C:432:THR:HG23	1:C:434:GLU:N	2.29	0.47
1:C:572:PHE:HB3	1:C:575:HIS:CD2	2.49	0.47
1:C:590:ASP:HB3	1:C:593:ASP:HB2	1.96	0.47
1:C:852:GLU:HB2	1:C:921:TYR:CD1	2.50	0.47
1:C:1236:HIS:H	2:D:2319:VAL:HG21	1.79	0.47
1:C:1399:TYR:HA	1:C:1402:GLU:OE2	2.13	0.47
1:C:1550:PHE:HE1	1:C:1649:GLU:HG2	1.79	0.47
2:D:1704:PHE:O	2:D:1722:CYS:HB2	2.14	0.47
2:D:1936:ASP:O	2:D:1942:LYS:HD2	2.14	0.47
2:D:2338:PHE:CD1	2:D:2339:THR:N	2.83	0.47
2:D:2399:VAL:O	2:D:2399:VAL:HG23	2.14	0.47
2:D:2503:GLY:CA	2:D:2588:VAL:HB	2.43	0.47
2:D:3136:ILE:H	2:D:3136:ILE:CD1	2.26	0.47
1:A:273:LEU:H	1:A:273:LEU:CD1	2.27	0.47
1:A:590:ASP:HB3	1:A:593:ASP:HB2	1.96	0.47
1:A:617:MET:HE1	1:A:629:PHE:HA	1.96	0.47
1:A:746:PHE:HA	1:A:757:ALA:H	1.79	0.47
1:A:783:HIS:ND1	1:A:784:VAL:HG23	2.28	0.47
1:A:853:LEU:CG	1:A:921:TYR:CE1	2.95	0.47
1:A:874:ALA:HB1	1:A:881:TRP:NE1	2.29	0.47
1:A:1244:GLU:HG2	1:A:1245:GLY:H	1.76	0.47
1:A:1275:ALA:HA	1:A:1278:LEU:CD2	2.45	0.47
1:A:1379:ILE:HG13	1:A:1447:PHE:CZ	2.49	0.47
2:B:1741:PHE:CE2	2:B:1875:TYR:CZ	3.02	0.47
2:B:1909:MET:HB3	2:B:1935:GLU:HG2	1.97	0.47
2:B:2036:ARG:HB2	2:B:2039:GLU:HG2	1.96	0.47
2:B:2141:HIS:HD2	2:B:2146:PHE:CD2	2.32	0.47
2:B:2154:THR:CA	2:B:2288:PHE:CE2	2.95	0.47
2:B:2278:LEU:N	2:B:2419:LEU:HD21	2.29	0.47
2:B:2538:ILE:O	2:B:2573:TYR:HE1	1.96	0.47
2:B:2805:LYS:HG2	2:B:2806:SER:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2939:TYR:HE1	2:B:2981:PHE:HE1	1.60	0.47
2:B:3194:LEU:H	2:B:3194:LEU:CD1	2.25	0.47
1:C:745:ILE:HD12	1:C:800:VAL:HG22	1.96	0.47
1:C:853:LEU:N	1:C:921:TYR:CE1	2.82	0.47
1:C:874:ALA:HB1	1:C:881:TRP:NE1	2.29	0.47
1:C:1042:PHE:CE2	1:C:1046:HIS:CE1	3.02	0.47
1:C:1079:GLU:O	1:C:1102:PRO:HD2	2.13	0.47
1:C:1508:THR:HG22	1:C:1511:ASP:OD2	2.14	0.47
2:D:1973:VAL:HG12	2:D:2067:TYR:HD1	1.78	0.47
2:D:2385:PHE:HE1	2:D:2485:GLU:HB2	1.78	0.47
2:D:2607:THR:HG23	2:D:2608:ASP:N	2.28	0.47
2:D:2703:ASN:O	2:D:2706:ARG:HB3	2.14	0.47
2:D:3043:THR:O	2:D:3048:PHE:HA	2.14	0.47
1:A:216:ILE:HD13	1:A:219:ILE:CD1	2.44	0.47
1:A:572:PHE:HB3	1:A:575:HIS:CD2	2.49	0.47
1:A:921:TYR:CE2	1:A:923:GLY:N	2.82	0.47
1:A:1018:ILE:HG13	1:A:1045:HIS:ND1	2.29	0.47
1:A:1087:SER:CA	1:A:1097:LYS:HZ2	2.19	0.47
1:A:1201:ASP:O	1:A:1203:LYS:HD2	2.15	0.47
1:A:1249:GLN:CB	1:A:1470:ARG:NH2	2.61	0.47
1:A:1401:TYR:HE2	1:A:1405:LEU:HD22	1.75	0.47
2:B:1730:PHE:CE2	2:B:1734:HIS:CE1	3.03	0.47
2:B:1765:GLU:HG2	2:B:1766:LEU:O	2.14	0.47
2:B:1991:GLN:HA	2:B:2002:ALA:H	1.78	0.47
2:B:2150:HIS:CD2	2:B:2291:HIS:CD2	3.03	0.47
2:B:2196:ARG:O	2:B:2197:ASN:HB2	2.14	0.47
2:B:2558:CYS:SG	2:B:2738:PRO:HD3	2.55	0.47
2:B:2703:ASN:O	2:B:2706:ARG:HB3	2.15	0.47
2:B:2764:PHE:CB	2:B:2766:PHE:CE2	2.97	0.47
2:B:2800:LEU:CD1	2:B:2828:ILE:HD11	2.33	0.47
2:B:3047:GLU:HG3	2:B:3047:GLU:O	2.13	0.47
2:B:3234:VAL:HG22	2:B:3235:ILE:N	2.30	0.47
2:B:3297:ASN:HD22	2:B:3297:ASN:N	2.10	0.47
1:C:21:ALA:C	1:C:24:ARG:HG2	2.39	0.47
1:C:183:HIS:HD1	1:C:194:MET:HG3	1.68	0.47
1:C:208:LEU:HD12	1:C:208:LEU:H	1.79	0.47
1:C:324:ILE:HG23	1:C:325:PRO:HD2	1.97	0.47
1:C:362:LEU:N	1:C:362:LEU:HD12	2.29	0.47
1:C:462:HIS:CE1	1:C:623:THR:HG21	2.50	0.47
1:C:496:THR:HG21	1:C:698:LEU:CD2	2.44	0.47
1:C:551:PHE:CD2	1:C:552:GLU:N	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:562:ILE:HG22	1:C:564:GLN:O	2.14	0.47
1:C:921:TYR:CE2	1:C:923:GLY:N	2.82	0.47
1:C:1017:TYR:O	1:C:1021:LEU:HD23	2.14	0.47
1:C:1275:ALA:HA	1:C:1278:LEU:CD2	2.45	0.47
1:C:1548:ARG:HA	1:C:1608:THR:HG21	1.94	0.47
2:D:1842:GLN:HA	2:D:2022:TYR:HE1	1.78	0.47
2:D:2128:CYS:HB3	2:D:2138:CYS:HA	1.96	0.47
2:D:2212:HIS:HB3	2:D:2214:THR:OG1	2.14	0.47
2:D:2286:ILE:HG23	2:D:2287:PHE:N	2.28	0.47
2:D:2401:PHE:CD1	2:D:2460:ILE:HG21	2.50	0.47
2:D:2402:GLN:HA	2:D:2413:GLY:H	1.78	0.47
2:D:2538:ILE:O	2:D:2573:TYR:HE1	1.97	0.47
2:D:2558:CYS:SG	2:D:2738:PRO:HD3	2.55	0.47
2:D:3059:LEU:HA	2:D:3116:TRP:HD1	1.80	0.47
2:D:3139:VAL:HG13	2:D:3139:VAL:O	2.14	0.47
2:D:3270:PHE:CE1	2:D:3290:PRO:HD2	2.50	0.47
1:A:65:PHE:HD1	1:A:66:PRO:HD3	1.80	0.47
1:A:94:TRP:CG	1:A:182:ILE:HD11	2.48	0.47
1:A:160:LEU:CD2	1:A:297:ARG:HD2	2.43	0.47
1:A:226:LEU:CD2	1:A:291:LYS:HE2	2.34	0.47
1:A:464:LEU:CD1	1:A:551:PHE:CE2	2.95	0.47
1:A:549:ILE:HD13	1:A:622:TYR:HD1	1.76	0.47
1:A:551:PHE:CE1	1:A:625:PHE:HZ	2.21	0.47
1:A:560:ARG:HB2	1:A:610:GLY:HA2	1.97	0.47
1:A:562:ILE:HG22	1:A:564:GLN:O	2.14	0.47
1:A:574:HIS:HE1	1:A:575:HIS:CE1	2.32	0.47
1:A:723:GLN:HA	1:A:727:ARG:NH2	2.30	0.47
1:A:975:VAL:HG22	1:A:976:GLN:N	2.29	0.47
1:A:1409:GLU:OE1	1:A:1544:LYS:HE2	2.13	0.47
1:A:1457:THR:HA	1:A:1460:ARG:HG2	1.96	0.47
1:A:1485:LEU:HD12	1:A:1485:LEU:H	1.77	0.47
2:B:1817:LYS:HG2	2:B:1820:HIS:HE1	1.80	0.47
2:B:2101:TYR:CD2	2:D:1694:SER:CA	2.95	0.47
2:B:2103:LEU:HD12	2:B:2204:PHE:CG	2.49	0.47
2:B:2338:PHE:CD1	2:B:2339:THR:N	2.83	0.47
2:B:2500:ALA:HB2	2:B:3131:SER:CA	2.41	0.47
2:B:2636:ASN:HB2	2:B:2646:PHE:CE2	2.48	0.47
2:B:2876:LEU:HD22	2:B:2876:LEU:N	2.29	0.47
2:B:2946:HIS:HE1	2:B:3093:LEU:HD12	1.80	0.47
2:B:3374:TYR:O	2:B:3375:PHE:HB2	2.15	0.47
1:C:160:LEU:CD2	1:C:297:ARG:HD2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:427:ASN:N	1:C:513:TYR:CE1	2.82	0.47
1:C:526:LEU:O	1:C:526:LEU:HD23	2.13	0.47
1:C:676:LEU:HG	1:C:1365:ARG:CA	2.34	0.47
1:C:745:ILE:CD1	1:C:800:VAL:HG22	2.45	0.47
1:C:839:ARG:HA	1:C:924:ALA:HB3	1.94	0.47
1:C:866:ALA:CA	1:C:871:GLN:HG2	2.44	0.47
1:C:1292:PHE:CE1	1:C:1492:PRO:HB2	2.49	0.47
1:C:1395:PHE:CZ	1:C:1430:LEU:CD2	2.97	0.47
2:D:1909:MET:HE3	2:D:1935:GLU:N	2.30	0.47
2:D:2103:LEU:HD12	2:D:2204:PHE:CG	2.49	0.47
2:D:2446:ILE:HA	2:D:2450:ASP:OD2	2.13	0.47
2:D:3078:VAL:CG1	2:D:3082:ILE:HD13	2.43	0.47
1:A:66:PRO:O	1:A:70:ARG:HG3	2.13	0.47
1:A:171:PHE:CE2	1:A:175:PHE:CB	2.95	0.47
1:A:197:LEU:HD13	1:A:197:LEU:O	2.15	0.47
1:A:411:ASP:CB	1:A:655:ARG:N	2.65	0.47
1:A:685:ASN:HA	1:A:690:LYS:HD2	1.97	0.47
1:A:880:LYS:HD3	1:A:880:LYS:H	1.78	0.47
1:A:901:PHE:CE2	1:A:905:HIS:CE1	3.03	0.47
1:A:1218:ASP:N	1:A:1224:LEU:HD21	2.30	0.47
1:A:1278:LEU:HB3	1:A:1373:PRO:CG	2.42	0.47
1:A:1379:ILE:HD13	1:A:1444:TYR:CD1	2.49	0.47
1:A:1479:ALA:HB3	1:A:1486:MET:HE3	1.97	0.47
1:A:1486:MET:O	1:A:1509:PRO:HD2	2.14	0.47
1:A:1548:ARG:HB2	1:A:1649:GLU:HG2	1.96	0.47
1:A:1618:LEU:CD1	2:B:1906:VAL:CG2	2.77	0.47
2:B:2124:LEU:HD13	2:B:2125:PRO:CG	2.44	0.47
2:B:2607:THR:HG23	2:B:2608:ASP:N	2.28	0.47
2:B:2942:ILE:HG23	2:B:3103:MET:CE	2.44	0.47
2:B:3049:SER:O	2:B:3050:SER:HB2	2.15	0.47
2:B:3059:LEU:HA	2:B:3116:TRP:HD1	1.80	0.47
2:B:3160:LEU:HD13	2:B:3161:PRO:N	2.29	0.47
2:B:3347:ALA:HA	2:B:3350:LYS:HD3	1.96	0.47
1:C:104:LEU:HB2	1:C:123:TRP:HZ3	1.78	0.47
1:C:197:LEU:HD13	1:C:197:LEU:O	2.15	0.47
1:C:206:PHE:CE2	1:C:210:HIS:CE1	3.03	0.47
1:C:246:GLU:CB	1:C:247:PRO:HA	2.32	0.47
1:C:312:PHE:CD2	1:C:313:GLY:N	2.82	0.47
1:C:574:HIS:HE1	1:C:575:HIS:CE1	2.32	0.47
1:C:981:GLU:HG3	1:C:981:GLU:O	2.14	0.47
1:C:1349:ILE:HD12	1:C:1351:HIS:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1366:GLN:HB3	1:C:1368:HIS:CD2	2.49	0.47
1:C:1457:THR:HA	1:C:1460:ARG:HG2	1.96	0.47
1:C:1479:ALA:HB3	1:C:1486:MET:HE3	1.97	0.47
2:D:2322:MET:CE	2:D:2349:PHE:CE1	2.89	0.47
2:D:2464:VAL:O	2:D:2464:VAL:HG13	2.14	0.47
1:A:65:PHE:CD1	1:A:66:PRO:HD3	2.50	0.47
1:A:67:HIS:HA	1:A:267:LEU:HG	1.96	0.47
1:A:91:TYR:HB2	1:A:212:ASN:CA	2.45	0.47
1:A:179:HIS:CE1	1:A:209:HIS:CD2	3.03	0.47
1:A:196:ASN:HB3	1:A:198:GLU:OE2	2.14	0.47
1:A:302:ARG:CZ	1:A:304:PHE:CZ	2.95	0.47
1:A:486:ILE:HB	1:A:662:LEU:CG	2.44	0.47
1:A:991:ILE:HD12	1:A:995:VAL:HG13	1.97	0.47
1:A:1023:GLY:HA2	1:A:1026:GLN:HE22	1.77	0.47
1:A:1086:LEU:HB2	1:A:1090:ILE:HG21	1.94	0.47
1:A:1257:ARG:CB	1:A:1521:TYR:HD1	2.09	0.47
1:A:1280:ILE:HD12	1:A:1330:ALA:HB1	1.97	0.47
2:B:1689:MET:CE	2:B:1698:PHE:HD1	2.06	0.47
2:B:1909:MET:HE3	2:B:1935:GLU:N	2.30	0.47
2:B:1924:LEU:HD22	2:B:1924:LEU:H	1.77	0.47
2:B:2132:HIS:O	2:B:2135:GLU:HG3	2.15	0.47
2:B:2148:HIS:CD2	2:B:2348:VAL:CG2	2.98	0.47
2:B:2170:VAL:CG1	2:B:2288:PHE:CD1	2.95	0.47
2:B:2286:ILE:HG23	2:B:2287:PHE:N	2.28	0.47
2:B:2287:PHE:CZ	2:B:2291:HIS:CE1	3.03	0.47
2:B:2452:PHE:CD2	2:B:2458:PHE:HD1	2.32	0.47
2:B:2602:LEU:HB3	2:B:2603:PRO:HD2	1.97	0.47
2:B:2640:ARG:H	2:B:2643:GLU:HB3	1.80	0.47
2:B:2732:MET:HE3	2:B:2755:PRO:HB2	1.95	0.47
2:B:2862:PHE:CE1	2:B:2864:PHE:CE1	2.98	0.47
2:B:3059:LEU:HD12	2:B:3187:LEU:HD21	1.97	0.47
2:B:3078:VAL:CG1	2:B:3082:ILE:HD13	2.43	0.47
2:B:3136:ILE:CD1	2:B:3136:ILE:H	2.26	0.47
2:B:3144:PHE:HD2	2:B:3155:THR:HG23	1.75	0.47
2:B:3274:LEU:HD13	2:B:3275:LYS:N	2.29	0.47
1:C:65:PHE:CE2	1:C:69:HIS:CE1	3.03	0.47
1:C:65:PHE:HD1	1:C:66:PRO:HD3	1.80	0.47
1:C:206:PHE:CZ	1:C:210:HIS:CE1	3.03	0.47
1:C:305:ALA:HB2	1:C:362:LEU:CD1	2.39	0.47
1:C:318:VAL:CG1	1:C:341:PHE:CE1	2.95	0.47
1:C:487:PHE:CE2	1:C:491:HIS:CE1	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:685:ASN:HA	1:C:690:LYS:HD2	1.97	0.47
1:C:746:PHE:HA	1:C:757:ALA:H	1.79	0.47
1:C:857:LEU:HD23	1:C:958:PRO:C	2.40	0.47
1:C:901:PHE:CE2	1:C:905:HIS:CE1	3.03	0.47
1:C:925:LEU:HD13	1:C:1043:TYR:HB3	1.96	0.47
1:C:943:HIS:CD2	1:C:945:LYS:C	2.90	0.47
1:C:1214:TYR:HE1	1:C:1231:GLN:HE22	1.62	0.47
1:C:1218:ASP:N	1:C:1224:LEU:HD21	2.30	0.47
1:C:1242:HIS:HB2	1:C:1476:TYR:CE1	2.41	0.47
1:C:1379:ILE:HD13	1:C:1444:TYR:CD1	2.49	0.47
1:C:1379:ILE:HG13	1:C:1447:PHE:CZ	2.49	0.47
1:C:1398:ASP:O	1:C:1402:GLU:HG3	2.14	0.47
1:C:1457:THR:HG23	1:C:1458:THR:N	2.30	0.47
1:C:1515:TYR:HD2	1:C:1521:TYR:O	1.94	0.47
2:D:1798:GLU:HG3	2:D:1800:VAL:HB	1.97	0.47
2:D:1893:ARG:HG3	2:D:1894:PHE:N	2.29	0.47
2:D:1909:MET:HE3	2:D:1935:GLU:HA	1.96	0.47
2:D:2105:SER:OG	2:D:2164:HIS:HD2	1.97	0.47
2:D:2124:LEU:HD13	2:D:2125:PRO:CG	2.44	0.47
2:D:2127:LYS:HZ2	2:D:2131:SER:HB2	1.80	0.47
2:D:2275:LEU:HA	2:D:2281:ALA:CB	2.45	0.47
2:D:2527:MET:HA	2:D:2535:TYR:CB	2.44	0.47
2:D:2539:ALA:HA	2:D:2573:TYR:OH	2.15	0.47
2:D:2792:ASP:CG	2:D:2890:PRO:HA	2.40	0.47
2:D:2876:LEU:HD22	2:D:2876:LEU:N	2.29	0.47
2:D:2910:LYS:HE3	2:D:2992:LEU:HD13	1.97	0.47
2:D:2946:HIS:HE1	2:D:3093:LEU:HD12	1.80	0.47
2:D:2970:PHE:CE1	2:D:2974:HIS:CE1	3.03	0.47
2:D:3349:PHE:CD1	2:D:3375:PHE:CE1	3.03	0.47
1:A:206:PHE:CZ	1:A:210:HIS:CE1	3.03	0.47
1:A:383:LEU:HD23	1:A:391:LEU:CD2	2.39	0.47
1:A:427:ASN:N	1:A:513:TYR:CE1	2.82	0.47
1:A:502:LEU:HA	1:A:505:ARG:HD2	1.95	0.47
1:A:560:ARG:NH1	1:A:628:LEU:HD22	2.29	0.47
1:A:615:PHE:CE1	1:A:622:TYR:CZ	3.03	0.47
1:A:853:LEU:N	1:A:921:TYR:CE1	2.82	0.47
1:A:857:LEU:HD23	1:A:958:PRO:C	2.40	0.47
1:A:1261:ASN:ND2	1:A:1264:ASN:H	2.13	0.47
1:A:1398:ASP:O	1:A:1402:GLU:HG3	2.14	0.47
2:B:1909:MET:CE	2:B:1934:PRO:C	2.88	0.47
2:B:1988:VAL:CG2	2:B:2005:PHE:CE1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2088:LEU:HD12	2:B:2088:LEU:C	2.38	0.47
2:B:2091:LEU:HD13	2:B:2099:LEU:HD12	1.97	0.47
2:B:2149:TRP:HD1	2:B:2326:MET:CG	2.27	0.47
2:B:2621:TYR:CD1	2:B:2622:LEU:N	2.83	0.47
2:B:2717:TYR:HD1	2:B:2779:LYS:HZ2	1.57	0.47
2:B:2732:MET:CE	2:B:2759:PHE:CE2	2.95	0.47
1:C:196:ASN:HB3	1:C:198:GLU:OE2	2.14	0.47
1:C:514:TRP:CZ3	1:C:628:LEU:HD11	2.47	0.47
1:C:617:MET:HE1	1:C:629:PHE:HA	1.96	0.47
1:C:897:GLY:HA3	1:C:1185:TRP:CD2	2.50	0.47
1:C:928:TRP:HE1	1:C:934:LEU:HD12	1.79	0.47
1:C:1201:ASP:O	1:C:1203:LYS:HD2	2.15	0.47
1:C:1262:ILE:HG13	1:C:1263:GLU:N	2.29	0.47
2:D:1806:ILE:O	2:D:1806:ILE:HG22	2.15	0.47
2:D:1909:MET:HB3	2:D:1935:GLU:HG2	1.96	0.47
2:D:1955:TRP:CB	2:D:1960:ILE:HD13	2.45	0.47
2:D:1991:GLN:HA	2:D:2002:ALA:H	1.78	0.47
2:D:2036:ARG:HB2	2:D:2039:GLU:HG2	1.96	0.47
2:D:2128:CYS:SG	2:D:2138:CYS:N	2.87	0.47
2:D:2141:HIS:HA	2:D:2146:PHE:CD2	2.47	0.47
2:D:2155:LEU:HD13	2:D:2158:GLU:OE1	2.14	0.47
2:D:2640:ARG:H	2:D:2643:GLU:HB3	1.80	0.47
2:D:3024:ILE:HB	2:D:3028:ASN:O	2.15	0.47
2:D:3027:ILE:HG23	2:D:3028:ASN:N	2.30	0.47
2:D:3306:ILE:HG21	2:D:3329:MET:SD	2.54	0.47
1:A:36:GLN:HG3	1:A:129:ASP:OD2	2.15	0.47
1:A:60:HIS:CE1	1:A:197:LEU:HD21	2.49	0.47
1:A:263:THR:HG23	1:A:266:ASP:H	1.80	0.47
1:A:312:PHE:CG	1:A:313:GLY:N	2.83	0.47
1:A:549:ILE:HG22	1:A:552:GLU:HG2	1.94	0.47
1:A:897:GLY:HA3	1:A:1185:TRP:CD2	2.50	0.47
1:A:1262:ILE:HG13	1:A:1263:GLU:N	2.29	0.47
1:A:1427:LEU:HG	1:A:1454:HIS:ND1	2.30	0.47
1:A:1451:PHE:CE2	1:A:1455:HIS:CE1	3.03	0.47
2:B:1798:GLU:HG3	2:B:1800:VAL:HB	1.97	0.47
2:B:1847:HIS:CE1	2:B:1877:HIS:CD2	3.03	0.47
2:B:2128:CYS:SG	2:B:2138:CYS:N	2.87	0.47
2:B:2212:HIS:CE1	2:B:2280:TYR:CE1	3.03	0.47
2:B:2256:PHE:CZ	2:B:2294:VAL:CG2	2.95	0.47
2:B:2371:ILE:HG13	2:B:2372:GLU:N	2.29	0.47
2:B:2621:TYR:HE2	2:B:2693:TYR:HH	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2970:PHE:CZ	2:B:3072:GLU:HG3	2.50	0.47
2:B:3209:ILE:HD13	2:B:3209:ILE:N	2.19	0.47
2:B:3274:LEU:CD1	2:B:3276:LYS:HG3	2.45	0.47
2:B:3349:PHE:HB3	2:B:3375:PHE:CE1	2.50	0.47
1:C:65:PHE:CD1	1:C:66:PRO:HD3	2.50	0.47
1:C:91:TYR:HB2	1:C:212:ASN:CA	2.45	0.47
1:C:216:ILE:HD13	1:C:219:ILE:CD1	2.44	0.47
1:C:312:PHE:CG	1:C:313:GLY:N	2.83	0.47
1:C:373:LEU:H	1:C:373:LEU:CD2	2.26	0.47
1:C:547:SER:O	1:C:556:PRO:HD2	2.15	0.47
1:C:676:LEU:HD21	1:C:1364:SER:OG	2.15	0.47
1:C:971:THR:HG22	1:C:972:THR:N	2.30	0.47
1:C:975:VAL:HG22	1:C:976:GLN:N	2.29	0.47
1:C:1086:LEU:CD2	1:C:1090:ILE:HG21	2.45	0.47
1:C:1108:TYR:CD2	1:C:1109:LYS:N	2.83	0.47
1:C:1259:ARG:HG3	1:C:1339:ALA:HB3	1.97	0.47
1:C:1320:HIS:CD2	1:C:1455:HIS:CD2	3.03	0.47
1:C:1467:ASP:CB	1:C:1470:ARG:HH12	2.25	0.47
2:D:1763:ARG:NH2	2:D:1811:LEU:HD13	2.30	0.47
2:D:2388:PHE:HD1	2:D:2433:PHE:O	1.98	0.47
2:D:2999:TRP:HE3	2:D:3051:ILE:HG21	1.77	0.47
2:D:3059:LEU:HD12	2:D:3187:LEU:HD21	1.97	0.47
2:D:3123:ARG:NH2	2:D:3191:LEU:HD13	2.30	0.47
2:D:3200:VAL:HG13	2:D:3254:ILE:HG12	1.97	0.47
2:D:3264:THR:HB	2:D:3267:HIS:HB3	1.96	0.47
1:A:197:LEU:CD2	1:A:344:LEU:HD12	2.40	0.47
1:A:198:GLU:HG2	1:A:199:TYR:N	2.30	0.47
1:A:487:PHE:CE2	1:A:491:HIS:CE1	3.03	0.47
1:A:516:TRP:NE1	1:A:608:TRP:CZ3	2.83	0.47
1:A:549:ILE:HD13	1:A:622:TYR:CE1	2.50	0.47
1:A:557:HIS:HB3	1:A:613:GLU:OE1	2.14	0.47
1:A:676:LEU:HD21	1:A:1364:SER:OG	2.15	0.47
1:A:852:GLU:HB2	1:A:921:TYR:CD1	2.50	0.47
1:A:897:GLY:HA3	1:A:1185:TRP:CE3	2.50	0.47
1:A:995:VAL:HG23	1:A:996:LEU:N	2.30	0.47
1:A:1259:ARG:HG3	1:A:1339:ALA:HB3	1.97	0.47
1:A:1395:PHE:CE1	1:A:1430:LEU:CD2	2.95	0.47
1:A:1451:PHE:CZ	1:A:1455:HIS:CE1	3.03	0.47
1:A:1657:THR:N	2:B:1898:SER:CB	2.77	0.47
2:B:1757:TRP:H	2:B:1876:ILE:HG22	1.80	0.47
2:B:1763:ARG:NH2	2:B:1811:LEU:HD13	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2064:SER:C	2:B:2065:ILE:HD12	2.40	0.47
2:B:2155:LEU:CD1	2:B:2354:LEU:HB3	2.44	0.47
2:B:2182:ILE:CG2	2:B:2187:THR:CG2	2.93	0.47
2:B:2401:PHE:CD1	2:B:2460:ILE:HG21	2.50	0.47
2:B:2593:TRP:CH2	2:B:2602:LEU:HD22	2.50	0.47
2:B:2754:LYS:O	2:B:2758:VAL:HG23	2.13	0.47
2:B:2970:PHE:CE1	2:B:2974:HIS:CE1	3.03	0.47
2:B:3016:ASN:HD22	2:B:3016:ASN:N	2.12	0.47
2:B:3027:ILE:HG23	2:B:3028:ASN:N	2.30	0.47
2:B:3139:VAL:HG13	2:B:3139:VAL:O	2.14	0.47
1:C:273:LEU:H	1:C:273:LEU:CD1	2.27	0.47
1:C:490:TRP:HA	1:C:667:LEU:HD13	1.97	0.47
1:C:720:HIS:O	1:C:723:GLN:HB3	2.15	0.47
1:C:864:LYS:HE2	1:C:864:LYS:CA	2.43	0.47
1:C:1034:ARG:HG3	1:C:1035:TYR:N	2.29	0.47
1:C:1150:GLY:HA2	1:C:1176:LEU:CD2	2.45	0.47
1:C:1151:PHE:O	1:C:1153:LYS:HD2	2.13	0.47
1:C:1219:LEU:HD11	1:C:1220:LYS:HG3	1.95	0.47
1:C:1345:TRP:CE3	1:C:1400:PHE:CD2	3.03	0.47
1:C:1542:GLU:OE2	2:D:2502:HIS:N	2.47	0.47
1:C:1557:ASN:ND2	1:C:1588:ILE:HG12	2.30	0.47
1:C:1662:THR:CB	2:D:1893:ARG:HB2	2.38	0.47
2:D:1854:VAL:CG2	2:D:1862:ILE:HG21	2.45	0.47
2:D:2146:PHE:HD1	2:D:2147:PRO:CD	2.26	0.47
2:D:2208:TYR:CE2	2:D:2210:PRO:HG3	2.49	0.47
2:D:2384:VAL:O	2:D:2437:ILE:HG22	2.15	0.47
2:D:2640:ARG:HB3	2:D:2643:GLU:H	1.80	0.47
2:D:2687:THR:HG23	2:D:2690:TYR:HB2	1.95	0.47
2:D:3016:ASN:HD22	2:D:3016:ASN:N	2.12	0.47
2:D:3049:SER:O	2:D:3050:SER:HB2	2.14	0.47
2:D:3374:TYR:O	2:D:3375:PHE:HB2	2.15	0.47
1:A:65:PHE:CE2	1:A:69:HIS:CE1	3.03	0.46
1:A:156:MET:HA	1:A:159:VAL:HG22	1.97	0.46
1:A:208:LEU:HD12	1:A:208:LEU:H	1.79	0.46
1:A:462:HIS:CE1	1:A:623:THR:HG21	2.50	0.46
1:A:560:ARG:CZ	1:A:617:MET:CG	2.88	0.46
1:A:723:GLN:CG	1:A:826:ARG:HE	2.29	0.46
1:A:991:ILE:HG23	1:A:992:ALA:H	1.80	0.46
1:A:1042:PHE:CE2	1:A:1046:HIS:CE1	3.02	0.46
1:A:1101:VAL:HG23	1:A:1101:VAL:O	2.15	0.46
1:A:1254:SER:CB	1:A:1522:ALA:CB	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1261:ASN:ND2	1:A:1263:GLU:HB2	2.30	0.46
1:A:1316:PHE:HD2	1:A:1317:PRO:CD	2.28	0.46
1:A:1316:PHE:CE1	1:A:1320:HIS:CE1	3.03	0.46
1:A:1395:PHE:CZ	1:A:1430:LEU:CD2	2.97	0.46
1:A:1476:TYR:HE2	1:A:1477:ARG:HB2	1.66	0.46
1:A:1566:VAL:HG12	1:A:1567:PHE:N	2.29	0.46
2:B:1770:LEU:HD12	2:B:1770:LEU:H	1.79	0.46
2:B:2275:LEU:HA	2:B:2281:ALA:CB	2.45	0.46
2:B:2539:ALA:HA	2:B:2573:TYR:OH	2.15	0.46
2:B:2566:PHE:CE2	2:B:2570:HIS:CE1	3.03	0.46
2:B:2984:ALA:O	2:B:2987:LYS:HG2	2.14	0.46
2:B:3270:PHE:CE1	2:B:3290:PRO:HD2	2.50	0.46
1:C:232:LYS:HE2	1:C:232:LYS:N	2.30	0.46
1:C:490:TRP:CB	1:C:667:LEU:HD13	2.45	0.46
1:C:532:TYR:HE2	1:C:534:ASP:HB2	1.80	0.46
1:C:579:PHE:CD1	1:C:579:PHE:C	2.93	0.46
1:C:779:PHE:CD2	1:C:780:ASP:N	2.83	0.46
1:C:860:LEU:CD1	1:C:916:LEU:HD12	2.45	0.46
1:C:1042:PHE:CZ	1:C:1046:HIS:CE1	3.03	0.46
1:C:1566:VAL:HG12	1:C:1567:PHE:N	2.29	0.46
2:D:1730:PHE:CE2	2:D:1734:HIS:CE1	3.03	0.46
2:D:1817:LYS:HG2	2:D:1820:HIS:HE1	1.80	0.46
2:D:1931:PHE:HB3	2:D:1943:PHE:HZ	1.80	0.46
2:D:1988:VAL:CG2	2:D:2005:PHE:CE1	2.98	0.46
2:D:2132:HIS:O	2:D:2135:GLU:HG3	2.15	0.46
2:D:2182:ILE:CG2	2:D:2187:THR:CG2	2.93	0.46
2:D:2548:CYS:HB3	2:D:2556:TYR:CZ	2.50	0.46
2:D:2754:LYS:N	2:D:2754:LYS:HD2	2.30	0.46
2:D:2976:LEU:CD2	2:D:3155:THR:HG23	2.41	0.46
2:D:3318:VAL:CG2	2:D:3394:HIS:HB3	2.45	0.46
1:A:206:PHE:CE2	1:A:210:HIS:CE1	3.03	0.46
1:A:428:ILE:HD13	1:A:514:TRP:CA	2.44	0.46
1:A:490:TRP:HB2	1:A:667:LEU:HD13	1.98	0.46
1:A:547:SER:O	1:A:556:PRO:HD2	2.15	0.46
1:A:743:VAL:CG1	1:A:800:VAL:HG13	2.45	0.46
1:A:749:THR:HG23	1:A:752:SER:H	1.80	0.46
1:A:1017:TYR:O	1:A:1021:LEU:HD23	2.14	0.46
1:A:1244:GLU:HA	1:A:1249:GLN:OE1	2.15	0.46
1:A:1405:LEU:CD1	1:A:1540:LEU:HD21	2.45	0.46
1:A:1498:ASN:HD21	1:A:1503:THR:HG21	1.80	0.46
2:B:1786:ASN:OD1	2:B:1788:PHE:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1914:LYS:HB3	2:B:1915:PRO:HA	1.97	0.46
2:B:2534:GLY:O	2:B:2538:ILE:HG23	2.16	0.46
2:B:2539:ALA:HB1	2:B:2692:THR:CG2	2.45	0.46
2:B:2870:ASP:N	2:B:2876:LEU:HD21	2.30	0.46
2:B:2942:ILE:HG23	2:B:3103:MET:HE1	1.96	0.46
2:B:2950:ASN:HB3	2:B:2960:TYR:N	2.30	0.46
2:B:2962:CYS:HB3	2:B:3143:PRO:CD	2.41	0.46
2:B:2986:LYS:HD2	2:B:2990:SER:O	2.15	0.46
2:B:3123:ARG:NH2	2:B:3191:LEU:HD13	2.30	0.46
2:B:3277:TYR:HB2	2:B:3282:LEU:HD23	1.98	0.46
2:B:3340:LEU:HD22	2:B:3377:THR:HG22	1.95	0.46
1:C:117:LYS:HB3	1:C:119:HIS:NE2	2.30	0.46
1:C:383:LEU:HD23	1:C:391:LEU:CD2	2.39	0.46
1:C:650:ARG:O	1:C:651:HIS:HB2	2.15	0.46
1:C:853:LEU:CD2	1:C:921:TYR:CZ	2.99	0.46
1:C:931:THR:HA	1:C:991:ILE:HG12	1.96	0.46
1:C:991:ILE:HG23	1:C:992:ALA:H	1.80	0.46
1:C:1261:ASN:ND2	1:C:1264:ASN:H	2.13	0.46
1:C:1486:MET:O	1:C:1509:PRO:HD2	2.14	0.46
2:D:1920:ALA:CB	2:D:1921:PRO:HA	2.30	0.46
2:D:2256:PHE:CZ	2:D:2294:VAL:CG2	2.95	0.46
2:D:2395:THR:HG22	2:D:2396:SER:N	2.31	0.46
2:D:2534:GLY:O	2:D:2538:ILE:HG23	2.16	0.46
2:D:2538:ILE:HD13	2:D:2577:MET:CE	2.01	0.46
2:D:2821:HIS:HB3	2:D:2850:VAL:HG13	1.96	0.46
2:D:2919:GLU:O	2:D:2922:GLU:HG2	2.15	0.46
2:D:3029:GLN:HG2	2:D:3088:TYR:CE2	2.51	0.46
2:D:3183:ASN:HD21	2:D:3186:GLU:HB2	1.78	0.46
2:D:3325:LYS:CD	2:D:3367:TYR:HB2	2.45	0.46
1:A:101:LEU:CB	1:A:106:ALA:HB2	2.46	0.46
1:A:424:VAL:HG12	1:A:425:ARG:N	2.30	0.46
1:A:779:PHE:CD2	1:A:780:ASP:N	2.83	0.46
1:A:839:ARG:HH22	1:A:909:THR:HG23	1.79	0.46
1:A:875:PHE:CE2	1:A:1083:PRO:HB2	2.51	0.46
1:A:1150:GLY:HA2	1:A:1176:LEU:CD2	2.45	0.46
1:A:1151:PHE:O	1:A:1153:LYS:HD2	2.13	0.46
1:A:1158:LYS:CA	1:A:1173:GLU:HG2	2.46	0.46
1:A:1320:HIS:CD2	1:A:1455:HIS:CD2	3.03	0.46
1:A:1580:SER:O	1:A:1581:HIS:HB2	2.15	0.46
2:B:1714:PRO:HG2	2:B:1922:TYR:CD2	2.36	0.46
2:B:1865:LEU:HD22	2:B:2013:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2155:LEU:HD13	2:B:2158:GLU:OE1	2.14	0.46
2:B:2399:VAL:O	2:B:2399:VAL:HG23	2.14	0.46
2:B:2640:ARG:HB3	2:B:2643:GLU:H	1.80	0.46
2:B:3349:PHE:CD1	2:B:3375:PHE:CE1	3.03	0.46
1:C:187:GLY:HA3	1:C:195:ALA:HB2	1.96	0.46
1:C:304:PHE:HA	1:C:360:PHE:O	2.14	0.46
1:C:321:TYR:HD2	1:C:337:LYS:HA	1.78	0.46
1:C:520:MET:O	1:C:567:PHE:HB2	2.15	0.46
1:C:549:ILE:HD13	1:C:622:TYR:CE1	2.50	0.46
1:C:557:HIS:HB3	1:C:613:GLU:CD	2.40	0.46
1:C:591:TYR:HD1	1:C:643:TRP:CH2	2.34	0.46
1:C:749:THR:HG23	1:C:752:SER:H	1.80	0.46
1:C:860:LEU:HD23	1:C:860:LEU:C	2.41	0.46
1:C:875:PHE:CE2	1:C:1083:PRO:HB2	2.51	0.46
1:C:897:GLY:HA3	1:C:1185:TRP:CE3	2.50	0.46
1:C:901:PHE:CD1	1:C:901:PHE:C	2.93	0.46
1:C:991:ILE:HD12	1:C:995:VAL:HG13	1.97	0.46
1:C:1086:LEU:HD12	1:C:1086:LEU:N	2.30	0.46
1:C:1280:ILE:HD12	1:C:1330:ALA:HB1	1.97	0.46
1:C:1345:TRP:CH2	1:C:1400:PHE:HE2	2.31	0.46
1:C:1400:PHE:CD1	1:C:1400:PHE:N	2.83	0.46
1:C:1549:VAL:CG1	1:C:1611:LEU:HD12	2.37	0.46
2:D:1847:HIS:CE1	2:D:1877:HIS:CD2	3.03	0.46
2:D:2287:PHE:CE2	2:D:2291:HIS:CE1	3.03	0.46
2:D:2666:PHE:CE1	2:D:2707:ILE:HB	2.50	0.46
2:D:2718:ARG:HG3	2:D:2782:GLU:OE2	2.15	0.46
2:D:2805:LYS:HG2	2:D:2806:SER:H	1.79	0.46
2:D:2999:TRP:CH2	2:D:3074:LEU:CD1	2.93	0.46
2:D:3263:LEU:CD2	2:D:3269:LYS:HD2	2.44	0.46
2:D:3274:LEU:CD1	2:D:3276:LYS:HG3	2.45	0.46
1:A:304:PHE:HA	1:A:360:PHE:O	2.14	0.46
1:A:490:TRP:CB	1:A:667:LEU:HD13	2.45	0.46
1:A:579:PHE:CD1	1:A:579:PHE:C	2.93	0.46
1:A:666:HIS:HB3	1:A:686:ALA:HB1	1.97	0.46
1:A:1086:LEU:CD2	1:A:1090:ILE:HG21	2.45	0.46
1:A:1293:HIS:CB	1:A:1446:ALA:HB2	2.46	0.46
1:A:1508:THR:HG22	1:A:1511:ASP:OD2	2.14	0.46
1:A:1618:LEU:CD2	1:A:1648:PHE:CB	2.94	0.46
2:B:1695:SER:HB2	2:D:2195:TRP:CB	2.42	0.46
2:B:1955:TRP:CB	2:B:1960:ILE:HD13	2.45	0.46
2:B:2118:ILE:HA	2:B:2121:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2287:PHE:CE2	2:B:2291:HIS:CE1	3.03	0.46
2:B:2384:VAL:O	2:B:2437:ILE:HG22	2.15	0.46
2:B:2388:PHE:HD1	2:B:2433:PHE:O	1.98	0.46
2:B:2403:ILE:HD12	2:B:2460:ILE:CD1	2.30	0.46
2:B:2548:CYS:HB3	2:B:2556:TYR:CZ	2.50	0.46
2:B:2559:CYS:HB3	2:B:2561:HIS:CE1	2.51	0.46
2:B:2651:LEU:HD21	2:B:2785:LEU:HD23	1.98	0.46
2:B:2950:ASN:HB2	2:B:2960:TYR:H	1.81	0.46
2:B:2975:ARG:NH1	2:B:3114:ILE:HD11	2.30	0.46
2:B:3051:ILE:HG22	2:B:3052:PHE:N	2.27	0.46
2:B:3325:LYS:CD	2:B:3367:TYR:HB2	2.45	0.46
1:C:438:ASN:ND2	1:C:508:THR:HG22	2.30	0.46
1:C:493:LEU:CD2	1:C:670:PHE:CE1	2.95	0.46
1:C:615:PHE:CE1	1:C:622:TYR:CZ	3.03	0.46
1:C:1079:GLU:H	2:D:2456:GLU:CG	2.20	0.46
1:C:1171:ALA:CA	1:C:1198:LYS:HE2	2.46	0.46
1:C:1244:GLU:HA	1:C:1249:GLN:OE1	2.15	0.46
1:C:1316:PHE:CE1	1:C:1320:HIS:CE1	3.03	0.46
1:C:1362:TYR:CE2	1:C:1364:SER:CA	2.95	0.46
1:C:1405:LEU:CD1	1:C:1540:LEU:HD21	2.46	0.46
1:C:1451:PHE:CZ	1:C:1455:HIS:CE1	3.03	0.46
2:D:1843:PHE:CE1	2:D:1884:ILE:CG1	2.95	0.46
2:D:1851:HIS:HA	2:D:1862:ILE:HG21	1.94	0.46
2:D:2085:ARG:HA	2:D:2169:ALA:HB3	1.97	0.46
2:D:2115:PHE:CD1	2:D:2157:PHE:HE2	2.34	0.46
2:D:2146:PHE:CE2	2:D:2150:HIS:CE1	3.03	0.46
2:D:2170:VAL:CB	2:D:2288:PHE:CE1	2.95	0.46
2:D:2195:TRP:CG	2:D:2196:ARG:N	2.84	0.46
2:D:2539:ALA:HB1	2:D:2692:THR:CG2	2.45	0.46
2:D:2559:CYS:HB3	2:D:2561:HIS:CE1	2.51	0.46
2:D:2593:TRP:CH2	2:D:2602:LEU:HD22	2.50	0.46
2:D:2605:PHE:CE2	2:D:2614:PHE:CE2	2.96	0.46
2:D:2797:ALA:HB1	2:D:2842:LEU:CB	2.44	0.46
2:D:2986:LYS:HD2	2:D:2990:SER:O	2.15	0.46
1:A:33:ILE:H	1:A:33:ILE:CD1	2.29	0.46
1:A:171:PHE:CZ	1:A:175:PHE:HB2	2.50	0.46
1:A:263:THR:HG23	1:A:263:THR:O	2.16	0.46
1:A:438:ASN:ND2	1:A:508:THR:HG22	2.30	0.46
1:A:532:TYR:HE2	1:A:534:ASP:HB2	1.80	0.46
1:A:810:LEU:HD13	1:A:814:LEU:HD13	1.98	0.46
1:A:1145:GLY:CA	1:A:1190:VAL:HG11	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:ALA:CA	1:A:1198:LYS:HE2	2.46	0.46
2:B:1931:PHE:HB3	2:B:1943:PHE:HZ	1.80	0.46
2:B:2115:PHE:CD1	2:B:2157:PHE:HE2	2.34	0.46
2:B:2146:PHE:CE2	2:B:2150:HIS:CE1	3.03	0.46
2:B:2149:TRP:CD1	2:B:2326:MET:SD	3.08	0.46
2:B:2322:MET:CE	2:B:2349:PHE:CE1	2.89	0.46
2:B:3200:VAL:HG13	2:B:3254:ILE:HG12	1.97	0.46
2:B:3347:ALA:HB1	2:D:3315:PRO:HG2	1.96	0.46
1:C:197:LEU:HA	1:C:344:LEU:HD11	1.97	0.46
1:C:225:GLU:CD	1:C:231:PRO:HG3	2.41	0.46
1:C:694:TYR:HB2	1:C:700:TYR:CZ	2.48	0.46
1:C:723:GLN:HG3	1:C:826:ARG:HE	1.81	0.46
1:C:839:ARG:HH22	1:C:909:THR:HG23	1.79	0.46
1:C:964:ILE:HG21	1:C:967:VAL:HG22	1.98	0.46
1:C:1032:SER:CB	1:C:1035:TYR:HD2	2.29	0.46
1:C:1161:ILE:HB	1:C:1198:LYS:HZ3	1.76	0.46
1:C:1193:TYR:CD1	1:C:1194:ASP:N	2.84	0.46
1:C:1293:HIS:CB	1:C:1446:ALA:HB2	2.46	0.46
1:C:1427:LEU:HG	1:C:1454:HIS:ND1	2.30	0.46
1:C:1442:LEU:CD2	1:C:1589:LEU:HD12	2.38	0.46
1:C:1542:GLU:CG	1:C:1545:ARG:HD3	2.46	0.46
1:C:1568:VAL:HG13	1:C:1622:PHE:CD1	2.51	0.46
2:D:1828:LEU:HD23	2:D:1828:LEU:C	2.40	0.46
2:D:1854:VAL:HG23	2:D:1855:GLY:N	2.29	0.46
2:D:1909:MET:CE	2:D:1934:PRO:C	2.88	0.46
2:D:2150:HIS:CD2	2:D:2291:HIS:CD2	3.03	0.46
2:D:2278:LEU:N	2:D:2419:LEU:HD21	2.29	0.46
2:D:2479:ALA:CB	2:D:2480:PRO:HD2	2.31	0.46
2:D:2580:ALA:O	2:D:2584:HIS:HD2	1.97	0.46
2:D:2621:TYR:CD1	2:D:2622:LEU:N	2.83	0.46
2:D:2651:LEU:HD21	2:D:2785:LEU:HD23	1.97	0.46
2:D:3051:ILE:HG22	2:D:3052:PHE:N	2.27	0.46
2:D:3308:ILE:HG12	2:D:3331:VAL:HG12	1.97	0.46
2:D:3383:LEU:HD13	2:D:3383:LEU:C	2.39	0.46
1:A:146:LYS:HZ2	1:A:148:LYS:HE3	1.75	0.46
1:A:225:GLU:CD	1:A:231:PRO:HG3	2.41	0.46
1:A:405:PRO:CB	1:A:657:HIS:HB3	2.44	0.46
1:A:496:THR:HG21	1:A:698:LEU:CD2	2.44	0.46
1:A:698:LEU:CD1	1:A:700:TYR:CD1	2.95	0.46
1:A:853:LEU:CD2	1:A:921:TYR:CZ	2.99	0.46
1:A:901:PHE:C	1:A:901:PHE:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:971:THR:HG22	1:A:972:THR:N	2.30	0.46
1:A:1319:TRP:CB	1:A:1490:LEU:HD21	2.46	0.46
1:A:1510:HIS:O	1:A:1513:PHE:HD2	1.99	0.46
2:B:1747:LYS:O	2:D:2167:SER:HB2	2.16	0.46
2:B:1854:VAL:CG2	2:B:1862:ILE:HG21	2.45	0.46
2:B:2067:TYR:HE2	2:B:2069:PRO:HB3	1.81	0.46
2:B:2910:LYS:HE3	2:B:2992:LEU:HD13	1.97	0.46
2:B:3076:ASN:CB	2:B:3234:VAL:HG13	2.40	0.46
2:B:3219:ILE:CG2	2:B:3261:LEU:CD1	2.94	0.46
2:B:3340:LEU:HG	2:B:3341:ASN:N	2.30	0.46
1:C:560:ARG:HB2	1:C:610:GLY:HA2	1.97	0.46
1:C:730:ALA:CA	1:C:781:ILE:HD11	2.46	0.46
1:C:921:TYR:CE2	1:C:923:GLY:CA	2.99	0.46
1:C:940:LEU:HD21	1:C:959:TRP:CE2	2.51	0.46
1:C:1261:ASN:ND2	1:C:1263:GLU:HB2	2.30	0.46
1:C:1409:GLU:OE1	1:C:1544:LYS:HE2	2.13	0.46
2:D:1774:THR:HG22	2:D:1775:ILE:N	2.29	0.46
2:D:1914:LYS:HB3	2:D:1915:PRO:HA	1.97	0.46
2:D:2064:SER:C	2:D:2065:ILE:HD12	2.40	0.46
2:D:2067:TYR:CE2	2:D:2069:PRO:HB3	2.51	0.46
2:D:2118:ILE:HA	2:D:2121:PHE:CD1	2.51	0.46
2:D:2148:HIS:CD2	2:D:2348:VAL:CG2	2.98	0.46
2:D:2756:THR:HG23	2:D:2757:ASP:OD1	2.16	0.46
2:D:2870:ASP:N	2:D:2876:LEU:HD21	2.30	0.46
2:D:3029:GLN:CD	2:D:3088:TYR:CG	2.93	0.46
2:D:3104:ILE:O	2:D:3107:ALA:HB3	2.16	0.46
1:A:412:PRO:HG2	1:A:654:TYR:CB	2.45	0.46
1:A:688:PRO:O	1:A:691:ILE:HB	2.16	0.46
1:A:729:TYR:HD1	1:A:821:ILE:CD1	2.28	0.46
1:A:860:LEU:HD23	1:A:860:LEU:C	2.41	0.46
1:A:860:LEU:CD1	1:A:916:LEU:HD12	2.45	0.46
1:A:930:TRP:CB	1:A:1018:ILE:HD11	2.46	0.46
1:A:931:THR:HA	1:A:991:ILE:HG12	1.96	0.46
1:A:1542:GLU:CG	1:A:1545:ARG:HD3	2.46	0.46
1:A:1626:ILE:HD11	1:A:1638:SER:OG	2.16	0.46
2:B:1784:ILE:CG2	2:B:1785:PRO:N	2.79	0.46
2:B:1893:ARG:HG3	2:B:1894:PHE:N	2.29	0.46
2:B:1953:ALA:CB	2:B:1955:TRP:CZ3	2.95	0.46
2:B:1958:ARG:HG2	2:B:1962:HIS:CD2	2.51	0.46
2:B:2285:PRO:O	2:B:2289:ILE:HD13	2.16	0.46
2:B:2395:THR:HG22	2:B:2396:SER:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2489:ASP:HB3	2:B:2491:HIS:NE2	2.31	0.46
2:B:2599:PHE:O	2:B:2635:PHE:HD1	1.99	0.46
2:B:2666:PHE:CE1	2:B:2707:ILE:HB	2.50	0.46
2:B:2756:THR:HG23	2:B:2757:ASP:N	2.30	0.46
2:B:2975:ARG:HD2	2:B:3164:VAL:CG1	2.46	0.46
2:B:3071:TYR:CZ	2:B:3109:LEU:CD2	2.96	0.46
2:B:3088:TYR:N	2:B:3088:TYR:CD1	2.83	0.46
1:C:21:ALA:HA	1:C:24:ARG:CG	2.46	0.46
1:C:101:LEU:CB	1:C:106:ALA:HB2	2.46	0.46
1:C:168:PHE:CE1	1:C:217:PHE:CE1	3.04	0.46
1:C:516:TRP:NE1	1:C:608:TRP:CZ3	2.83	0.46
1:C:620:LEU:HD23	1:C:620:LEU:C	2.41	0.46
1:C:853:LEU:HD11	1:C:926:PRO:HG2	1.98	0.46
1:C:1205:HIS:CD2	1:C:1207:GLU:CG	2.99	0.46
1:C:1345:TRP:CH2	1:C:1400:PHE:CE2	3.03	0.46
1:C:1483:ILE:HG21	2:D:2037:HIS:O	2.15	0.46
1:C:1618:LEU:HD12	1:C:1646:ILE:HD11	1.98	0.46
2:D:1757:TRP:H	2:D:1876:ILE:HG22	1.80	0.46
2:D:1783:ASP:O	2:D:1784:ILE:HD13	2.15	0.46
2:D:2067:TYR:HE2	2:D:2069:PRO:HB3	1.81	0.46
2:D:2149:TRP:CD1	2:D:2326:MET:SD	3.08	0.46
2:D:2287:PHE:CZ	2:D:2291:HIS:CE1	3.03	0.46
2:D:2805:LYS:HE2	2:D:2870:ASP:HB2	1.98	0.46
2:D:2948:TYR:HA	2:D:2949:PRO:C	2.41	0.46
2:D:3088:TYR:N	2:D:3088:TYR:CD1	2.83	0.46
1:A:117:LYS:HB3	1:A:119:HIS:NE2	2.30	0.46
1:A:324:ILE:HG23	1:A:325:PRO:HD2	1.97	0.46
1:A:520:MET:O	1:A:567:PHE:HB2	2.15	0.46
1:A:730:ALA:CA	1:A:781:ILE:HD11	2.46	0.46
1:A:745:ILE:CD1	1:A:800:VAL:HG22	2.45	0.46
1:A:788:LEU:CB	1:A:790:LEU:HG	2.45	0.46
1:A:943:HIS:CD2	1:A:945:LYS:C	2.90	0.46
1:A:1032:SER:CB	1:A:1035:TYR:HD2	2.28	0.46
1:A:1042:PHE:CZ	1:A:1046:HIS:CE1	3.03	0.46
1:A:1340:VAL:O	1:A:1340:VAL:HG13	2.14	0.46
1:A:1352:LEU:HD12	1:A:1352:LEU:N	2.30	0.46
1:A:1400:PHE:CD1	1:A:1400:PHE:N	2.83	0.46
1:A:1566:VAL:O	1:A:1583:ALA:HB3	2.16	0.46
2:B:1683:VAL:HG23	2:B:1787:PRO:HD2	1.98	0.46
2:B:1945:TYR:CD1	2:B:1945:TYR:C	2.94	0.46
2:B:2156:GLN:CD	2:B:2334:ASN:HD21	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2195:TRP:CG	2:B:2196:ARG:N	2.84	0.46
2:B:2714:LEU:HD11	2:B:2781:LEU:CD2	2.45	0.46
2:B:2754:LYS:HD2	2:B:2754:LYS:N	2.30	0.46
2:B:2764:PHE:O	2:B:2765:ASN:HB2	2.16	0.46
2:B:2919:GLU:O	2:B:2922:GLU:HG2	2.15	0.46
2:B:3243:PRO:HG3	2:D:3354:PRO:HA	1.97	0.46
1:C:198:GLU:HG2	1:C:199:TYR:N	2.30	0.46
1:C:549:ILE:HG22	1:C:552:GLU:HG2	1.94	0.46
1:C:723:GLN:HA	1:C:727:ARG:NH2	2.30	0.46
1:C:743:VAL:CG1	1:C:800:VAL:CG1	2.94	0.46
1:C:861:LYS:NZ	1:C:963:HIS:H	2.14	0.46
1:C:1141:ARG:CG	1:C:1143:PHE:CE1	2.94	0.46
1:C:1345:TRP:CZ2	1:C:1430:LEU:CD2	2.96	0.46
1:C:1405:LEU:CD1	1:C:1540:LEU:CD2	2.94	0.46
1:C:1451:PHE:CE2	1:C:1455:HIS:CE1	3.03	0.46
1:C:1566:VAL:HG22	1:C:1626:ILE:CG2	2.45	0.46
2:D:1712:PRO:HG3	2:D:1720:PHE:HD2	1.81	0.46
2:D:2245:GLU:HB3	2:D:2375:ILE:HB	1.98	0.46
2:D:2285:PRO:O	2:D:2289:ILE:HD13	2.16	0.46
2:D:2815:ASN:OD1	2:D:2815:ASN:C	2.58	0.46
2:D:2965:HIS:HE2	2:D:2974:HIS:CE1	2.33	0.46
2:D:2975:ARG:HD2	2:D:3164:VAL:CG1	2.46	0.46
2:D:3024:ILE:O	2:D:3025:ARG:HB3	2.14	0.46
2:D:3144:PHE:HA	2:D:3149:VAL:CG1	2.44	0.46
1:A:5:ARG:NH1	1:A:89:LEU:HD21	2.22	0.46
1:A:163:LEU:CD1	1:A:294:LEU:HD11	2.20	0.46
1:A:197:LEU:HA	1:A:344:LEU:HD11	1.97	0.46
1:A:286:THR:CG2	1:A:287:PRO:HD2	2.46	0.46
1:A:469:PRO:HG3	1:A:477:TYR:CE2	2.50	0.46
1:A:591:TYR:HD1	1:A:643:TRP:CH2	2.34	0.46
1:A:650:ARG:O	1:A:651:HIS:HB2	2.15	0.46
1:A:694:TYR:HB2	1:A:700:TYR:CZ	2.48	0.46
1:A:694:TYR:CG	1:A:695:GLU:N	2.84	0.46
1:A:903:HIS:CD2	1:A:1053:TRP:CH2	3.01	0.46
1:A:1159:PHE:CE2	1:A:1171:ALA:HB1	2.51	0.46
1:A:1205:HIS:CD2	1:A:1207:GLU:CG	2.99	0.46
1:A:1405:LEU:CD1	1:A:1540:LEU:CD2	2.94	0.46
1:A:1457:THR:HG23	1:A:1458:THR:N	2.30	0.46
2:B:1725:HIS:HA	2:B:1730:PHE:HD2	1.80	0.46
2:B:2577:MET:CB	2:B:2698:TRP:NE1	2.79	0.46
2:B:3269:LYS:HE3	2:B:3269:LYS:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:424:VAL:HG12	1:C:425:ARG:N	2.30	0.46
1:C:490:TRP:HB2	1:C:667:LEU:HD13	1.97	0.46
1:C:729:TYR:HD1	1:C:821:ILE:CD1	2.28	0.46
1:C:933:PRO:HB2	1:C:981:GLU:HB3	1.98	0.46
1:C:1101:VAL:HG23	1:C:1101:VAL:O	2.15	0.46
1:C:1159:PHE:CE2	1:C:1171:ALA:HB1	2.51	0.46
1:C:1254:SER:CB	1:C:1521:TYR:C	2.88	0.46
1:C:1316:PHE:HD2	1:C:1317:PRO:CD	2.28	0.46
1:C:1566:VAL:O	1:C:1583:ALA:HB3	2.16	0.46
1:C:1580:SER:O	1:C:1581:HIS:HB2	2.15	0.46
2:D:1689:MET:HG3	2:D:1748:HIS:CE1	2.51	0.46
2:D:1784:ILE:CG2	2:D:1785:PRO:N	2.78	0.46
2:D:1958:ARG:HG2	2:D:1962:HIS:CD2	2.51	0.46
2:D:1990:PHE:CE2	2:D:2002:ALA:HB1	2.51	0.46
2:D:2277:SER:HB3	2:D:2280:TYR:HB2	1.98	0.46
2:D:2599:PHE:CD1	2:D:2599:PHE:N	2.84	0.46
2:D:2605:PHE:CE2	2:D:2614:PHE:CZ	3.04	0.46
2:D:3234:VAL:HG22	2:D:3235:ILE:N	2.30	0.46
2:D:3340:LEU:HG	2:D:3341:ASN:N	2.30	0.46
2:D:3342:LEU:C	2:D:3342:LEU:HD23	2.41	0.46
2:D:3387:ASN:HD22	2:D:3388:ASN:N	2.14	0.46
2:D:3393:VAL:HG12	2:D:3394:HIS:N	2.30	0.46
1:A:21:ALA:HA	1:A:24:ARG:CG	2.46	0.46
1:A:446:PHE:CD2	1:A:455:TYR:HD1	2.33	0.46
1:A:462:HIS:CE1	1:A:629:PHE:HZ	2.31	0.46
1:A:493:LEU:CD2	1:A:670:PHE:CD1	2.99	0.46
1:A:1067:TYR:CG	1:A:1068:ASN:N	2.84	0.46
1:A:1108:TYR:CD2	1:A:1109:LYS:N	2.83	0.46
2:B:1712:PRO:HG3	2:B:1720:PHE:HD2	1.81	0.46
2:B:1828:LEU:HD23	2:B:1828:LEU:C	2.40	0.46
2:B:1847:HIS:O	2:B:1850:VAL:HG22	2.16	0.46
2:B:1922:TYR:CE1	2:D:2195:TRP:HE3	2.34	0.46
2:B:2067:TYR:CE2	2:B:2069:PRO:HB3	2.51	0.46
2:B:2815:ASN:OD1	2:B:2815:ASN:C	2.59	0.46
2:B:3029:GLN:HG2	2:B:3088:TYR:CE2	2.51	0.46
2:B:3279:HIS:HD2	2:B:3280:THR:HG23	1.80	0.46
1:C:200:THR:HG23	1:C:201:ALA:N	2.32	0.46
1:C:244:LYS:HB3	1:C:249:SER:HB2	1.96	0.46
1:C:446:PHE:CD2	1:C:455:TYR:HD1	2.33	0.46
1:C:723:GLN:CG	1:C:826:ARG:HE	2.28	0.46
1:C:882:CYS:N	1:C:893:CYS:SG	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:930:TRP:CB	1:C:1018:ILE:HD11	2.46	0.46
1:C:995:VAL:HG23	1:C:996:LEU:N	2.30	0.46
1:C:1352:LEU:HD12	1:C:1352:LEU:N	2.30	0.46
1:C:1548:ARG:HB2	1:C:1649:GLU:HG2	1.96	0.46
1:C:1657:THR:N	2:D:1898:SER:OG	2.49	0.46
2:D:1683:VAL:HG23	2:D:1787:PRO:HD2	1.98	0.46
2:D:1760:THR:CG2	2:D:1824:ILE:CG1	2.94	0.46
2:D:2212:HIS:CE1	2:D:2280:TYR:CE1	3.03	0.46
2:D:2566:PHE:CE2	2:D:2570:HIS:CE1	3.03	0.46
2:D:2811:PHE:HA	2:D:2865:HIS:O	2.16	0.46
2:D:2956:GLY:C	2:D:2958:GLU:H	2.23	0.46
2:D:3269:LYS:HE3	2:D:3269:LYS:C	2.41	0.46
2:D:3315:PRO:CB	2:D:3316:PRO:HD2	2.46	0.46
2:D:3349:PHE:HB3	2:D:3375:PHE:CE1	2.50	0.46
1:A:322:VAL:CG2	1:A:379:VAL:HG12	2.46	0.45
1:A:377:TYR:CD1	1:A:377:TYR:C	2.94	0.45
1:A:490:TRP:HA	1:A:667:LEU:HD13	1.97	0.45
1:A:557:HIS:HB3	1:A:613:GLU:CD	2.40	0.45
1:A:743:VAL:CG1	1:A:800:VAL:CG1	2.94	0.45
1:A:853:LEU:HD11	1:A:926:PRO:HG2	1.98	0.45
1:A:861:LYS:NZ	1:A:963:HIS:H	2.14	0.45
1:A:921:TYR:CE2	1:A:923:GLY:CA	2.99	0.45
1:A:940:LEU:HD21	1:A:959:TRP:CE2	2.51	0.45
1:A:1345:TRP:CH2	1:A:1400:PHE:CE2	3.03	0.45
1:A:1549:VAL:HG13	1:A:1607:ILE:CD1	2.46	0.45
1:A:1557:ASN:ND2	1:A:1588:ILE:HG12	2.30	0.45
1:A:1622:PHE:CD1	1:A:1622:PHE:C	2.94	0.45
2:B:1757:TRP:HE1	2:B:1763:ARG:NE	2.13	0.45
2:B:1774:THR:HG22	2:B:1775:ILE:N	2.30	0.45
2:B:1778:PRO:O	2:D:1817:LYS:NZ	2.49	0.45
2:B:1783:ASP:O	2:B:1784:ILE:HD13	2.16	0.45
2:B:2277:SER:HB3	2:B:2280:TYR:HB2	1.98	0.45
2:B:2538:ILE:O	2:B:2541:PHE:HD1	1.99	0.45
2:B:2864:PHE:CE1	2:B:2886:VAL:CG2	2.99	0.45
2:B:3024:ILE:HB	2:B:3028:ASN:O	2.15	0.45
2:B:3031:THR:HG21	2:B:3099:ASP:HA	1.97	0.45
2:B:3393:VAL:HG12	2:B:3394:HIS:N	2.30	0.45
1:C:36:GLN:HG3	1:C:129:ASP:OD2	2.15	0.45
1:C:48:CYS:HB2	1:C:57:CYS:HB2	1.71	0.45
1:C:179:HIS:CE1	1:C:209:HIS:CD2	3.03	0.45
1:C:436:VAL:CG2	1:C:526:LEU:HG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:493:LEU:CD2	1:C:670:PHE:CD1	2.99	0.45
1:C:560:ARG:NE	1:C:609:THR:CB	2.75	0.45
1:C:743:VAL:CG1	1:C:800:VAL:HG13	2.45	0.45
1:C:895:VAL:CG1	1:C:904:TRP:CB	2.94	0.45
1:C:1549:VAL:CG1	1:C:1607:ILE:HG13	2.25	0.45
1:C:1552:GLY:O	1:C:1644:PRO:HB3	2.16	0.45
1:C:1622:PHE:CD1	1:C:1622:PHE:C	2.94	0.45
2:D:1945:TYR:CD1	2:D:1945:TYR:C	2.94	0.45
2:D:1969:GLU:OE2	2:D:2073:ASP:HB3	2.16	0.45
2:D:2091:LEU:HD13	2:D:2099:LEU:HD12	1.97	0.45
2:D:2507:GLU:HG3	2:D:2592:TYR:OH	2.16	0.45
2:D:2568:HIS:CA	2:D:2758:VAL:HG11	2.42	0.45
2:D:2599:PHE:O	2:D:2635:PHE:HD1	1.99	0.45
2:D:3314:LEU:CD2	2:D:3391:ILE:CG1	2.94	0.45
1:A:130:PHE:CG	1:A:131:LEU:N	2.84	0.45
1:A:200:THR:HG23	1:A:201:ALA:N	2.31	0.45
1:A:244:LYS:HB3	1:A:249:SER:HB2	1.97	0.45
1:A:1086:LEU:HD12	1:A:1086:LEU:N	2.30	0.45
1:A:1244:GLU:CG	1:A:1245:GLY:N	2.74	0.45
1:A:1342:TYR:HB2	1:A:1457:THR:CA	2.46	0.45
1:A:1345:TRP:CE3	1:A:1400:PHE:CD2	3.04	0.45
1:A:1475:PRO:HB2	1:A:1478:GLU:HB3	1.98	0.45
1:A:1515:TYR:HD2	1:A:1521:TYR:O	1.93	0.45
1:A:1568:VAL:HG11	1:A:1622:PHE:CD1	2.51	0.45
1:A:1618:LEU:HD12	1:A:1646:ILE:HD11	1.98	0.45
2:B:1689:MET:HG3	2:B:1748:HIS:CE1	2.51	0.45
2:B:2062:THR:CG2	2:B:2063:PRO:N	2.79	0.45
2:B:2228:THR:CG2	2:B:2231:GLY:CA	2.94	0.45
2:B:2288:PHE:CD1	2:B:2288:PHE:C	2.95	0.45
2:B:2811:PHE:HA	2:B:2865:HIS:O	2.16	0.45
2:B:3076:ASN:HB3	2:B:3236:LEU:HD13	1.97	0.45
2:B:3087:LYS:N	2:B:3087:LYS:HD3	2.31	0.45
2:B:3328:PHE:HE1	2:B:3364:GLY:C	2.24	0.45
1:C:250:TRP:CZ3	1:C:252:ASP:CB	2.98	0.45
1:C:487:PHE:CD1	1:C:488:PRO:HD3	2.51	0.45
1:C:548:VAL:HA	1:C:556:PRO:CD	2.39	0.45
1:C:1345:TRP:HH2	1:C:1426:ALA:CB	2.29	0.45
1:C:1510:HIS:O	1:C:1513:PHE:HD2	1.99	0.45
2:D:1773:SER:HA	2:D:1789:ILE:HD13	1.98	0.45
2:D:1874:PHE:CD1	2:D:1878:HIS:ND1	2.84	0.45
2:D:2148:HIS:HB3	2:D:2348:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2156:GLN:CD	2:D:2334:ASN:HD21	2.23	0.45
2:D:2516:VAL:HG23	2:D:2517:ASP:N	2.31	0.45
2:D:2970:PHE:CZ	2:D:3072:GLU:HG3	2.50	0.45
1:A:436:VAL:CG2	1:A:526:LEU:HG	2.46	0.45
1:A:452:VAL:CG1	1:A:1365:ARG:CD	2.94	0.45
1:A:487:PHE:CD1	1:A:488:PRO:HD3	2.51	0.45
1:A:878:GLU:CG	1:A:1034:ARG:HB2	2.37	0.45
1:A:1214:TYR:CD2	1:A:1226:LYS:CD	2.94	0.45
1:A:1423:LEU:HD12	1:A:1423:LEU:C	2.41	0.45
1:A:1646:ILE:CG2	2:B:1907:ASN:HB3	2.47	0.45
2:B:1858:GLU:HA	2:B:1858:GLU:OE1	2.16	0.45
2:B:2245:GLU:HB3	2:B:2375:ILE:HB	1.98	0.45
2:B:2956:GLY:C	2:B:2958:GLU:H	2.23	0.45
2:B:3318:VAL:CG2	2:B:3394:HIS:HB3	2.45	0.45
1:C:20:GLN:O	1:C:24:ARG:HG2	2.17	0.45
1:C:156:MET:HA	1:C:159:VAL:HG22	1.97	0.45
1:C:174:GLN:CD	1:C:358:TYR:CE1	2.95	0.45
1:C:238:GLN:NE2	1:C:820:VAL:CG1	2.77	0.45
1:C:666:HIS:HB3	1:C:686:ALA:HB1	1.97	0.45
1:C:689:ASN:O	1:C:692:TYR:HD2	1.99	0.45
1:C:710:ILE:HG21	1:C:715:ILE:HA	1.97	0.45
1:C:841:ASN:HB3	1:C:927:TYR:CZ	2.51	0.45
1:C:1067:TYR:CG	1:C:1068:ASN:N	2.84	0.45
1:C:1153:LYS:CG	1:C:1182:GLU:OE2	2.65	0.45
1:C:1451:PHE:CD1	1:C:1451:PHE:C	2.95	0.45
1:C:1490:LEU:O	1:C:1493:PHE:HB2	2.16	0.45
1:C:1626:ILE:HD11	1:C:1638:SER:OG	2.16	0.45
2:D:1862:ILE:HD11	2:D:1871:ASP:CB	2.47	0.45
2:D:2204:PHE:O	2:D:2285:PRO:HG2	2.17	0.45
2:D:2267:VAL:CG2	2:D:2275:LEU:CB	2.94	0.45
2:D:2366:MET:CB	2:D:2371:ILE:CG2	2.94	0.45
2:D:2647:TYR:CD1	2:D:2774:HIS:CE1	3.04	0.45
2:D:3160:LEU:CD1	2:D:3162:ASN:HB2	2.46	0.45
2:D:3219:ILE:CG2	2:D:3261:LEU:CD1	2.94	0.45
1:A:70:ARG:HG2	1:A:214:ASP:CG	2.41	0.45
1:A:83:LYS:HE2	1:A:83:LYS:CA	2.44	0.45
1:A:174:GLN:HA	1:A:358:TYR:CE1	2.42	0.45
1:A:174:GLN:CD	1:A:358:TYR:CE1	2.95	0.45
1:A:232:LYS:HE2	1:A:232:LYS:N	2.30	0.45
1:A:302:ARG:NE	1:A:304:PHE:HZ	2.15	0.45
1:A:395:LEU:HD23	1:A:395:LEU:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:632:HIS:CE1	1:A:636:VAL:HG22	2.52	0.45
1:A:723:GLN:HG3	1:A:826:ARG:HE	1.81	0.45
1:A:882:CYS:N	1:A:893:CYS:SG	2.89	0.45
1:A:905:HIS:CD2	1:A:1046:HIS:CD2	3.04	0.45
1:A:1193:TYR:CD1	1:A:1194:ASP:N	2.84	0.45
1:A:1568:VAL:HG13	1:A:1622:PHE:CD1	2.51	0.45
1:A:1657:THR:CA	2:B:1898:SER:OG	2.63	0.45
2:B:1685:ALA:HB1	2:B:1748:HIS:HB2	1.98	0.45
2:B:1705:HIS:CE1	2:B:1865:LEU:HD12	2.45	0.45
2:B:1757:TRP:CZ3	2:B:1759:TRP:CZ2	3.04	0.45
2:B:1757:TRP:NE1	2:B:1763:ARG:CD	2.78	0.45
2:B:1757:TRP:CB	2:B:1876:ILE:HG22	2.47	0.45
2:B:1815:SER:HG	2:B:1820:HIS:CD2	2.34	0.45
2:B:1874:PHE:CD1	2:B:1878:HIS:ND1	2.84	0.45
2:B:1892:GLN:NE2	2:B:1895:ARG:HD2	2.32	0.45
2:B:2094:ARG:HD3	2:D:1924:LEU:O	2.17	0.45
2:B:2170:VAL:CB	2:B:2288:PHE:CE1	2.95	0.45
2:B:2194:VAL:CG1	2:B:2195:TRP:N	2.79	0.45
2:B:2279:HIS:CA	2:B:2423:LYS:HE2	2.46	0.45
2:B:2605:PHE:CE2	2:B:2614:PHE:CZ	3.04	0.45
2:B:2651:LEU:CD2	2:B:2785:LEU:CD2	2.95	0.45
2:B:2678:GLY:O	2:B:2681:THR:HG22	2.17	0.45
2:B:2718:ARG:HG3	2:B:2782:GLU:OE2	2.16	0.45
2:B:3104:ILE:O	2:B:3107:ALA:HB3	2.16	0.45
2:B:3308:ILE:HG12	2:B:3331:VAL:HG12	1.97	0.45
2:B:3314:LEU:CD2	2:B:3391:ILE:CG1	2.94	0.45
2:B:3342:LEU:HD23	2:B:3342:LEU:C	2.41	0.45
2:B:3349:PHE:CD1	2:B:3375:PHE:CG	3.05	0.45
1:C:163:LEU:CD1	1:C:294:LEU:HD11	2.20	0.45
1:C:171:PHE:CZ	1:C:175:PHE:HB2	2.50	0.45
1:C:300:ARG:CZ	1:C:302:ARG:HG2	2.46	0.45
1:C:302:ARG:CZ	1:C:304:PHE:CZ	2.95	0.45
2:D:1725:HIS:HA	2:D:1730:PHE:HD2	1.80	0.45
2:D:1757:TRP:CZ3	2:D:1759:TRP:CZ2	3.04	0.45
2:D:1766:LEU:CD2	2:D:1806:ILE:CD1	2.95	0.45
2:D:2697:PHE:CE2	2:D:2701:HIS:CE1	2.98	0.45
2:D:2764:PHE:O	2:D:2765:ASN:HB2	2.16	0.45
2:D:2885:THR:HG22	2:D:2886:VAL:N	2.32	0.45
2:D:3024:ILE:HG22	2:D:3026:SER:H	1.82	0.45
2:D:3087:LYS:HD3	2:D:3087:LYS:N	2.31	0.45
2:D:3277:TYR:HB2	2:D:3282:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3317:LYS:HG3	2:D:3317:LYS:O	2.16	0.45
2:D:3363:LEU:HB3	2:D:3364:GLY:H	1.58	0.45
1:A:148:LYS:HB2	1:A:150:GLY:O	2.16	0.45
1:A:546:SER:HB3	1:A:558:THR:OG1	2.17	0.45
1:A:620:LEU:HD23	1:A:620:LEU:C	2.41	0.45
1:A:1288:SER:HA	1:A:1291:LYS:HD2	1.99	0.45
1:A:1554:LEU:HD12	1:A:1602:LEU:HD22	1.97	0.45
2:B:1778:PRO:HG2	2:D:1817:LYS:HA	1.98	0.45
2:B:1806:ILE:HG22	2:B:1806:ILE:O	2.15	0.45
2:B:2272:VAL:O	2:B:2277:SER:HB2	2.17	0.45
2:B:2446:ILE:HG21	2:B:2452:PHE:HE1	1.80	0.45
2:B:2494:HIS:CD2	2:B:3125:LYS:CG	2.98	0.45
2:B:2507:GLU:HG3	2:B:2592:TYR:OH	2.16	0.45
2:B:2697:PHE:CE2	2:B:2701:HIS:CE1	2.98	0.45
2:B:2766:PHE:CD1	2:B:2766:PHE:C	2.95	0.45
2:B:3176:ASN:HD22	2:B:3178:ASN:HB2	1.81	0.45
2:B:3183:ASN:HD21	2:B:3186:GLU:HB2	1.78	0.45
2:B:3353:VAL:HG22	2:B:3381:THR:CG2	2.42	0.45
1:C:210:HIS:C	1:C:213:VAL:HG22	2.41	0.45
1:C:498:VAL:HB	1:C:630:TYR:HE1	1.76	0.45
1:C:498:VAL:CB	1:C:630:TYR:CE1	2.99	0.45
1:C:914:ASN:O	1:C:917:ARG:HG2	2.16	0.45
1:C:1042:PHE:CD1	1:C:1042:PHE:C	2.94	0.45
1:C:1078:ARG:CB	2:D:2456:GLU:HA	2.47	0.45
1:C:1158:LYS:CA	1:C:1173:GLU:HG2	2.46	0.45
1:C:1278:LEU:HB3	1:C:1373:PRO:CG	2.42	0.45
1:C:1288:SER:HA	1:C:1291:LYS:HD2	1.99	0.45
2:D:1757:TRP:CB	2:D:1876:ILE:CG2	2.95	0.45
2:D:1892:GLN:NE2	2:D:1895:ARG:HD2	2.32	0.45
2:D:2384:VAL:HG22	2:D:2437:ILE:HG21	1.98	0.45
2:D:2569:TRP:CD1	2:D:2736:LEU:HB3	2.51	0.45
2:D:2975:ARG:NH1	2:D:3114:ILE:HD11	2.30	0.45
2:D:3031:THR:HG21	2:D:3099:ASP:HA	1.97	0.45
2:D:3068:GLU:O	2:D:3071:TYR:HB3	2.17	0.45
2:D:3349:PHE:CD1	2:D:3375:PHE:CG	3.05	0.45
1:A:5:ARG:HD2	1:A:277:TYR:CE1	2.52	0.45
1:A:210:HIS:C	1:A:213:VAL:HG22	2.41	0.45
1:A:544:PHE:HD1	1:A:631:PHE:CZ	2.33	0.45
1:A:689:ASN:O	1:A:692:TYR:HD2	1.99	0.45
1:A:710:ILE:HG21	1:A:715:ILE:HA	1.97	0.45
1:A:720:HIS:O	1:A:723:GLN:HB3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:802:ILE:HD12	1:A:810:LEU:CD1	2.47	0.45
1:A:1451:PHE:CD1	1:A:1451:PHE:C	2.95	0.45
1:A:1552:GLY:O	1:A:1644:PRO:HB3	2.16	0.45
2:B:1671:ILE:CD1	2:B:1770:LEU:CD1	2.95	0.45
2:B:1854:VAL:CG2	2:B:1862:ILE:CB	2.94	0.45
2:B:2012:LYS:HA	2:B:2012:LYS:HE2	1.99	0.45
2:B:2527:MET:HA	2:B:2535:TYR:CB	2.44	0.45
2:B:2622:LEU:CD1	2:B:2624:VAL:HG12	2.40	0.45
2:B:2797:ALA:HB3	2:B:2842:LEU:HD13	1.98	0.45
2:B:3256:GLU:HG3	2:B:3257:THR:N	2.32	0.45
2:B:3269:LYS:HE3	2:B:3269:LYS:C	2.41	0.45
2:B:3387:ASN:HD22	2:B:3388:ASN:N	2.14	0.45
1:C:5:ARG:HD2	1:C:277:TYR:CE1	2.52	0.45
1:C:65:PHE:CD1	1:C:65:PHE:C	2.95	0.45
1:C:75:HIS:CD2	1:C:255:ILE:CG2	2.99	0.45
1:C:75:HIS:CD2	1:C:255:ILE:HG21	2.52	0.45
1:C:148:LYS:HB2	1:C:150:GLY:O	2.16	0.45
1:C:302:ARG:NE	1:C:304:PHE:HZ	2.15	0.45
1:C:487:PHE:CD1	1:C:487:PHE:C	2.95	0.45
1:C:544:PHE:HD1	1:C:631:PHE:CZ	2.33	0.45
1:C:842:VAL:HG13	1:C:843:ASP:OD1	2.16	0.45
1:C:891:PHE:HB2	1:C:1183:MET:HE3	1.99	0.45
1:C:1082:GLN:HB3	1:C:1083:PRO:CA	2.41	0.45
1:C:1214:TYR:CD2	1:C:1226:LYS:CD	2.94	0.45
1:C:1259:ARG:CG	1:C:1339:ALA:CB	2.95	0.45
1:C:1342:TYR:HB2	1:C:1457:THR:CA	2.46	0.45
2:D:1671:ILE:CD1	2:D:1770:LEU:CD1	2.95	0.45
2:D:1736:LEU:HD11	2:D:1937:THR:OG1	2.16	0.45
2:D:1757:TRP:HE1	2:D:1763:ARG:NE	2.13	0.45
2:D:1865:LEU:HD22	2:D:2013:GLU:OE2	2.15	0.45
2:D:2012:LYS:HE2	2:D:2012:LYS:HA	1.99	0.45
2:D:2143:MET:CE	2:D:2321:LEU:CD1	2.95	0.45
2:D:2194:VAL:CG1	2:D:2195:TRP:N	2.79	0.45
2:D:2279:HIS:CA	2:D:2423:LYS:HE2	2.46	0.45
2:D:2513:THR:HG23	2:D:2514:ALA:N	2.31	0.45
2:D:2538:ILE:O	2:D:2541:PHE:HD1	1.99	0.45
2:D:2766:PHE:CD1	2:D:2766:PHE:C	2.95	0.45
2:D:3029:GLN:HG2	2:D:3088:TYR:CD2	2.51	0.45
2:D:3073:ILE:HG13	2:D:3250:TYR:CE1	2.52	0.45
2:D:3076:ASN:CB	2:D:3234:VAL:HG13	2.40	0.45
2:D:3317:LYS:HZ3	2:D:3393:VAL:HG22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3353:VAL:CG2	2:D:3381:THR:CG2	2.95	0.45
1:A:20:GLN:O	1:A:24:ARG:HG2	2.17	0.45
1:A:48:CYS:HB2	1:A:57:CYS:HB2	1.71	0.45
1:A:69:HIS:CD2	1:A:210:HIS:CD2	3.05	0.45
1:A:168:PHE:CE1	1:A:217:PHE:CE1	3.04	0.45
1:A:895:VAL:CG1	1:A:904:TRP:CB	2.94	0.45
1:A:1170:PRO:O	1:A:1198:LYS:HD3	2.17	0.45
1:A:1345:TRP:HH2	1:A:1426:ALA:CB	2.29	0.45
2:B:1766:LEU:CD2	2:B:1806:ILE:CD1	2.95	0.45
2:B:2284:ASP:CG	2:B:2286:ILE:HG22	2.42	0.45
2:B:2599:PHE:CD1	2:B:2599:PHE:N	2.84	0.45
1:C:33:ILE:H	1:C:33:ILE:CD1	2.29	0.45
1:C:263:THR:HG23	1:C:266:ASP:H	1.80	0.45
1:C:286:THR:CG2	1:C:287:PRO:HD2	2.46	0.45
1:C:389:THR:O	1:C:389:THR:HG23	2.17	0.45
1:C:428:ILE:HD13	1:C:514:TRP:CA	2.44	0.45
1:C:514:TRP:HZ2	1:C:520:MET:SD	2.39	0.45
1:C:531:THR:O	1:C:531:THR:HG23	2.17	0.45
1:C:565:ARG:NH1	1:C:567:PHE:HB3	2.32	0.45
1:C:802:ILE:HD12	1:C:810:LEU:CD1	2.47	0.45
1:C:810:LEU:HD13	1:C:814:LEU:HD13	1.98	0.45
1:C:1010:GLN:CD	1:C:1191:PHE:CE1	2.95	0.45
1:C:1056:TRP:CH2	1:C:1060:GLN:HG3	2.52	0.45
1:C:1538:HIS:CE1	2:D:2498:SER:CB	3.00	0.45
2:D:1685:ALA:HB1	2:D:1748:HIS:HB2	1.99	0.45
2:D:1854:VAL:CG2	2:D:1862:ILE:CB	2.94	0.45
2:D:2062:THR:CG2	2:D:2063:PRO:N	2.79	0.45
2:D:2122:HIS:CB	2:D:2282:SER:HB3	2.47	0.45
2:D:2249:TYR:CD1	2:D:2249:TYR:C	2.95	0.45
2:D:2851:LEU:N	2:D:2851:LEU:HD12	2.32	0.45
2:D:2946:HIS:CD2	2:D:2963:CYS:HG	2.35	0.45
1:A:51:LYS:HG3	1:A:52:ASP:N	2.32	0.45
1:A:75:HIS:CD2	1:A:255:ILE:CG2	2.99	0.45
1:A:173:ILE:HG13	1:A:174:GLN:H	1.82	0.45
1:A:275:TYR:CD1	1:A:275:TYR:C	2.95	0.45
1:A:468:CYS:SG	1:A:477:TYR:HE1	2.40	0.45
1:A:487:PHE:CD1	1:A:487:PHE:C	2.95	0.45
1:A:523:ILE:C	1:A:524:PRO:CD	2.72	0.45
1:A:841:ASN:HB3	1:A:927:TYR:CZ	2.51	0.45
1:A:860:LEU:CD1	1:A:916:LEU:CD1	2.95	0.45
1:A:884:SER:O	1:A:887:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1192:LYS:HE3	1:A:1235:ILE:HD12	1.98	0.45
1:A:1265:LEU:HB2	1:A:1270:LEU:CD2	2.46	0.45
1:A:1566:VAL:HG22	1:A:1626:ILE:CG2	2.45	0.45
2:B:1736:LEU:HD11	2:B:1937:THR:OG1	2.16	0.45
2:B:1793:ILE:HG22	2:B:1796:GLU:HB3	1.99	0.45
2:B:1863:GLY:O	2:B:2050:TYR:CZ	2.70	0.45
2:B:2204:PHE:O	2:B:2285:PRO:HG2	2.17	0.45
2:B:2544:ASN:HA	2:B:2545:PRO:C	2.42	0.45
2:B:2756:THR:HG23	2:B:2757:ASP:OD1	2.16	0.45
2:B:2948:TYR:HA	2:B:2949:PRO:C	2.40	0.45
2:B:3068:GLU:O	2:B:3071:TYR:HB3	2.17	0.45
1:C:222:ARG:O	1:C:225:GLU:HB2	2.17	0.45
1:C:263:THR:HG23	1:C:263:THR:O	2.16	0.45
1:C:322:VAL:CG2	1:C:379:VAL:HG12	2.45	0.45
1:C:694:TYR:CG	1:C:695:GLU:N	2.84	0.45
1:C:1189:ARG:NE	2:D:2431:ARG:CG	2.75	0.45
1:C:1549:VAL:HG13	1:C:1607:ILE:CD1	2.46	0.45
2:D:1815:SER:HG	2:D:1820:HIS:CD2	2.35	0.45
2:D:1953:ALA:CB	2:D:1955:TRP:CZ3	2.95	0.45
2:D:2084:VAL:HG12	2:D:2085:ARG:N	2.32	0.45
2:D:2544:ASN:HA	2:D:2545:PRO:C	2.42	0.45
2:D:2697:PHE:CE1	2:D:2701:HIS:NE2	2.72	0.45
2:D:2722:TYR:CE2	2:D:2723:ASP:CG	2.95	0.45
2:D:2910:LYS:HE3	2:D:2992:LEU:HD22	1.99	0.45
2:D:3353:VAL:CG1	2:D:3377:THR:CG2	2.95	0.45
1:A:76:MET:SD	1:A:207:PHE:HD1	2.40	0.45
1:A:222:ARG:O	1:A:225:GLU:HB2	2.17	0.45
1:A:782:THR:HG22	1:A:786:LYS:CE	2.24	0.45
1:A:1490:LEU:O	1:A:1493:PHE:HB2	2.16	0.45
1:A:1556:HIS:CD2	1:A:1598:VAL:CG2	2.99	0.45
2:B:1784:ILE:CG2	2:B:1785:PRO:HD2	2.47	0.45
2:B:1990:PHE:CE2	2:B:2002:ALA:HB1	2.51	0.45
2:B:2249:TYR:CD1	2:B:2249:TYR:C	2.95	0.45
2:B:2267:VAL:CG2	2:B:2275:LEU:CB	2.94	0.45
2:B:2472:LEU:HD13	2:B:2473:PRO:O	2.16	0.45
2:B:2500:ALA:CB	2:B:3131:SER:OG	2.64	0.45
2:B:2662:PHE:CZ	2:B:2666:PHE:HB2	2.52	0.45
2:B:2697:PHE:CE1	2:B:2701:HIS:NE2	2.72	0.45
2:B:3024:ILE:HG22	2:B:3026:SER:H	1.82	0.45
2:B:3061:GLU:OE2	2:B:3251:ARG:HD3	2.17	0.45
2:B:3073:ILE:HG13	2:B:3250:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3136:ILE:HD11	2:D:3345:TYR:CE2	2.52	0.45
2:B:3269:LYS:HE3	2:B:3269:LYS:HA	1.99	0.45
2:B:3315:PRO:CB	2:B:3316:PRO:HD2	2.46	0.45
2:B:3317:LYS:HG3	2:B:3317:LYS:O	2.15	0.45
2:B:3327:MET:HG3	2:B:3366:MET:H	1.82	0.45
1:C:275:TYR:CD1	1:C:275:TYR:C	2.95	0.45
1:C:452:VAL:CG1	1:C:1365:ARG:CD	2.94	0.45
1:C:698:LEU:HD12	1:C:700:TYR:CG	2.52	0.45
1:C:733:LEU:C	1:C:734:LEU:HD12	2.42	0.45
1:C:747:ILE:HG23	1:C:796:PHE:CD2	2.52	0.45
1:C:771:TRP:HZ3	1:C:773:PHE:CD2	2.35	0.45
1:C:881:TRP:HZ3	1:C:885:PRO:HG3	1.81	0.45
1:C:1033:LEU:HB3	1:C:1179:ASP:CB	2.38	0.45
1:C:1176:LEU:HD11	1:C:1185:TRP:HZ2	1.82	0.45
1:C:1299:CYS:N	1:C:1308:CYS:SG	2.90	0.45
1:C:1498:ASN:CG	1:C:1503:THR:HG21	2.42	0.45
1:C:1556:HIS:CD2	1:C:1598:VAL:CG2	2.99	0.45
2:D:2208:TYR:HB3	2:D:2215:TYR:HD1	1.76	0.45
2:D:2288:PHE:CD1	2:D:2288:PHE:C	2.95	0.45
2:D:2472:LEU:HD13	2:D:2473:PRO:O	2.16	0.45
2:D:2734:ARG:HA	2:D:2735:PRO:HD3	1.81	0.45
2:D:2982:GLU:HB2	2:D:2994:ILE:HG12	1.99	0.45
2:D:3269:LYS:HE3	2:D:3269:LYS:CA	2.46	0.45
1:A:549:ILE:HB	1:A:552:GLU:CG	2.47	0.45
1:A:700:TYR:HE2	1:A:702:TYR:CE2	2.35	0.45
1:A:881:TRP:HZ3	1:A:885:PRO:HG3	1.81	0.45
1:A:964:ILE:HG21	1:A:967:VAL:HG22	1.98	0.45
1:A:1000:GLU:CD	1:A:1141:ARG:HH22	2.24	0.45
1:A:1158:LYS:HG3	1:A:1173:GLU:HG2	1.99	0.45
1:A:1280:ILE:CD1	1:A:1330:ALA:CB	2.95	0.45
1:A:1361:TYR:HD2	1:A:1363:ASN:HB3	1.81	0.45
1:A:1529:ASN:HB3	1:A:1531:TYR:CE2	2.52	0.45
1:A:1662:THR:O	2:B:1893:ARG:NE	2.40	0.45
2:B:1760:THR:CG2	2:B:1824:ILE:CG1	2.94	0.45
2:B:2094:ARG:HD2	2:D:1747:LYS:NZ	2.32	0.45
2:B:2148:HIS:HB3	2:B:2348:VAL:HG21	1.98	0.45
2:B:2267:VAL:CG2	2:B:2275:LEU:CG	2.95	0.45
2:B:2406:THR:HG23	2:B:2407:SER:N	2.32	0.45
2:B:2771:LEU:HD22	2:B:2771:LEU:N	2.32	0.45
2:B:2994:ILE:CG2	2:B:3104:ILE:HG22	2.47	0.45
2:B:3029:GLN:HG2	2:B:3088:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3177:LEU:CD2	2:B:3184:ILE:HG23	2.44	0.45
2:B:3263:LEU:CD2	2:B:3269:LYS:HD2	2.44	0.45
1:C:69:HIS:CD2	1:C:210:HIS:CD2	3.05	0.45
1:C:76:MET:SD	1:C:207:PHE:HD1	2.40	0.45
1:C:122:TYR:H	1:C:122:TYR:HD1	1.62	0.45
1:C:130:PHE:CG	1:C:131:LEU:N	2.84	0.45
1:C:395:LEU:HD23	1:C:395:LEU:C	2.41	0.45
1:C:496:THR:CG2	1:C:698:LEU:CD2	2.95	0.45
1:C:1319:TRP:CB	1:C:1490:LEU:HD21	2.46	0.45
1:C:1379:ILE:HD12	1:C:1447:PHE:CD2	2.52	0.45
1:C:1554:LEU:HD12	1:C:1602:LEU:HD22	1.97	0.45
1:C:1568:VAL:HG11	1:C:1622:PHE:CD1	2.51	0.45
2:D:1707:LEU:CD2	2:D:1709:PRO:HG3	2.47	0.45
2:D:1757:TRP:CZ2	2:D:1767:PRO:HD3	2.52	0.45
2:D:1858:GLU:OE1	2:D:1858:GLU:HA	2.16	0.45
2:D:1955:TRP:CB	2:D:1960:ILE:CD1	2.95	0.45
2:D:2228:THR:CG2	2:D:2231:GLY:CA	2.94	0.45
2:D:2267:VAL:CG2	2:D:2275:LEU:CG	2.95	0.45
2:D:2406:THR:HG23	2:D:2407:SER:N	2.32	0.45
2:D:2427:TRP:CE3	2:D:2427:TRP:C	2.95	0.45
2:D:2662:PHE:CZ	2:D:2666:PHE:HB2	2.52	0.45
2:D:2756:THR:HG23	2:D:2757:ASP:N	2.30	0.45
2:D:2950:ASN:HB3	2:D:2960:TYR:N	2.30	0.45
2:D:2994:ILE:CG2	2:D:3104:ILE:HG22	2.47	0.45
2:D:3010:PHE:CZ	2:D:3101:TYR:CD1	3.05	0.45
2:D:3209:ILE:HD13	2:D:3209:ILE:N	2.19	0.45
2:D:3297:ASN:HD22	2:D:3297:ASN:N	2.10	0.45
1:A:50:HIS:CE1	1:A:250:TRP:HD1	2.35	0.44
1:A:514:TRP:HZ2	1:A:520:MET:SD	2.40	0.44
1:A:565:ARG:NH1	1:A:567:PHE:HB3	2.31	0.44
1:A:698:LEU:HD12	1:A:700:TYR:CG	2.52	0.44
1:A:727:ARG:O	1:A:823:GLU:HB3	2.17	0.44
1:A:746:PHE:CE2	1:A:754:GLN:CD	2.95	0.44
1:A:914:ASN:O	1:A:917:ARG:HG2	2.16	0.44
1:A:933:PRO:HB2	1:A:981:GLU:HB3	1.98	0.44
1:A:981:GLU:HG3	1:A:981:GLU:O	2.14	0.44
1:A:1010:GLN:CD	1:A:1191:PHE:CE1	2.95	0.44
1:A:1259:ARG:CG	1:A:1339:ALA:CB	2.95	0.44
1:A:1319:TRP:CE3	1:A:1319:TRP:C	2.95	0.44
1:A:1550:PHE:CE1	1:A:1649:GLU:CD	2.95	0.44
1:A:1618:LEU:HD22	1:A:1648:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1773:SER:HA	2:B:1789:ILE:HD13	1.98	0.44
2:B:2122:HIS:CB	2:B:2282:SER:HB3	2.47	0.44
2:B:2384:VAL:HG22	2:B:2437:ILE:HG21	1.98	0.44
2:B:2460:ILE:HG23	2:B:2461:LYS:N	2.32	0.44
2:B:2569:TRP:CD1	2:B:2736:LEU:HB3	2.51	0.44
2:B:2805:LYS:HE2	2:B:2870:ASP:HB2	1.98	0.44
2:B:2982:GLU:HB2	2:B:2994:ILE:HG12	1.99	0.44
2:B:3221:SER:HB3	2:B:3226:ASP:OD1	2.16	0.44
2:B:3306:ILE:CG2	2:B:3329:MET:HG2	2.39	0.44
2:B:3312:VAL:HG22	2:B:3314:LEU:CD2	2.48	0.44
2:B:3353:VAL:CG1	2:B:3377:THR:CG2	2.95	0.44
1:C:12:THR:HG22	1:C:13:GLN:H	1.81	0.44
1:C:101:LEU:HD23	1:C:137:ARG:NH2	2.30	0.44
1:C:377:TYR:OH	1:C:401:VAL:HG11	2.16	0.44
1:C:469:PRO:HG3	1:C:477:TYR:CE2	2.50	0.44
1:C:688:PRO:O	1:C:691:ILE:HB	2.16	0.44
1:C:853:LEU:CG	1:C:921:TYR:CE1	2.94	0.44
1:C:1000:GLU:CD	1:C:1141:ARG:HH22	2.24	0.44
2:D:1757:TRP:CB	2:D:1876:ILE:HG22	2.47	0.44
2:D:1990:PHE:CE2	2:D:2002:ALA:HB3	2.52	0.44
2:D:2577:MET:CB	2:D:2698:TRP:NE1	2.79	0.44
2:D:2602:LEU:HB3	2:D:2603:PRO:HD2	1.97	0.44
2:D:2792:ASP:HB3	2:D:2889:SER:O	2.16	0.44
2:D:2797:ALA:HB3	2:D:2842:LEU:HD13	1.98	0.44
2:D:2822:PHE:CZ	2:D:2825:THR:HG22	2.52	0.44
2:D:3002:THR:CG2	2:D:3048:PHE:HE1	2.29	0.44
2:D:3176:ASN:HD22	2:D:3178:ASN:HB2	1.81	0.44
2:D:3221:SER:HB3	2:D:3226:ASP:OD1	2.16	0.44
1:A:101:LEU:HD23	1:A:137:ARG:NH2	2.30	0.44
1:A:234:MET:HE1	1:A:241:LEU:CD2	2.38	0.44
1:A:452:VAL:HG11	1:A:1365:ARG:HD2	1.99	0.44
1:A:531:THR:O	1:A:531:THR:HG23	2.17	0.44
1:A:597:GLN:HA	1:A:777:PHE:CE1	2.51	0.44
1:A:1153:LYS:CG	1:A:1182:GLU:OE2	2.65	0.44
1:A:1301:LEU:HD23	1:A:1301:LEU:C	2.42	0.44
1:A:1338:VAL:CG1	1:A:1339:ALA:N	2.81	0.44
1:A:1394:LEU:H	1:A:1394:LEU:CD2	2.30	0.44
2:B:1695:SER:OG	2:D:2195:TRP:CB	2.58	0.44
2:B:1730:PHE:CD1	2:B:1730:PHE:C	2.95	0.44
2:B:2140:ILE:CG1	2:B:2143:MET:CG	2.94	0.44
2:B:2273:TYR:CD1	2:B:2273:TYR:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2308:ARG:HH21	2:B:2375:ILE:HD12	1.83	0.44
2:B:2427:TRP:CE3	2:B:2427:TRP:C	2.95	0.44
2:B:2515:GLU:HA	2:B:2587:ARG:HD3	1.99	0.44
2:B:2722:TYR:CE2	2:B:2723:ASP:CG	2.95	0.44
2:B:2729:ILE:HG22	2:B:2733:LYS:HZ2	1.81	0.44
2:B:2772:ARG:HB2	2:B:2772:ARG:NH1	2.32	0.44
2:B:3002:THR:CG2	2:B:3048:PHE:HE1	2.30	0.44
1:C:83:LYS:HE2	1:C:83:LYS:CA	2.44	0.44
1:C:234:MET:HE1	1:C:241:LEU:CD2	2.38	0.44
1:C:317:ASN:CG	1:C:342:PHE:CE2	2.95	0.44
1:C:322:VAL:CG2	1:C:377:TYR:CD1	3.00	0.44
1:C:546:SER:HB3	1:C:558:THR:OG1	2.17	0.44
1:C:638:ARG:HB3	1:C:638:ARG:CZ	2.47	0.44
1:C:727:ARG:O	1:C:823:GLU:HB3	2.17	0.44
1:C:1033:LEU:N	1:C:1177:LEU:HD11	2.32	0.44
1:C:1442:LEU:HD13	1:C:1442:LEU:O	2.18	0.44
1:C:1618:LEU:CD2	1:C:1648:PHE:CB	2.94	0.44
2:D:1847:HIS:O	2:D:1850:VAL:HG22	2.16	0.44
2:D:1863:GLY:O	2:D:2050:TYR:CZ	2.70	0.44
2:D:2146:PHE:CD1	2:D:2146:PHE:C	2.95	0.44
2:D:2284:ASP:CG	2:D:2286:ILE:HG22	2.42	0.44
2:D:2354:LEU:CD1	2:D:2356:TYR:CE1	2.95	0.44
2:D:2651:LEU:CD2	2:D:2785:LEU:CD2	2.95	0.44
2:D:3119:LEU:HD23	2:D:3119:LEU:C	2.43	0.44
1:A:65:PHE:CD1	1:A:65:PHE:C	2.95	0.44
1:A:300:ARG:CZ	1:A:302:ARG:HG2	2.46	0.44
1:A:667:LEU:HG	1:A:688:PRO:HG3	2.00	0.44
1:A:840:LYS:C	1:A:927:TYR:CE1	2.95	0.44
1:A:1249:GLN:CG	1:A:1476:TYR:CB	2.85	0.44
1:A:1299:CYS:N	1:A:1308:CYS:SG	2.90	0.44
2:B:1707:LEU:CD2	2:B:1709:PRO:HG3	2.47	0.44
2:B:1735:ARG:HD2	2:B:1937:THR:HG22	1.99	0.44
2:B:1747:LYS:NZ	2:D:2094:ARG:CB	2.80	0.44
2:B:2146:PHE:CD1	2:B:2146:PHE:C	2.95	0.44
2:B:2366:MET:CB	2:B:2371:ILE:CG2	2.94	0.44
2:B:3039:ILE:CG2	2:B:3040:PHE:H	2.19	0.44
2:B:3076:ASN:CB	2:B:3236:LEU:CD1	2.95	0.44
2:B:3353:VAL:CG2	2:B:3381:THR:CG2	2.95	0.44
1:C:5:ARG:NH1	1:C:89:LEU:CD1	2.76	0.44
1:C:51:LYS:HG3	1:C:52:ASP:N	2.32	0.44
1:C:312:PHE:CD1	1:C:351:LYS:CD	2.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:425:ARG:HD2	1:C:702:TYR:HE1	1.76	0.44
1:C:746:PHE:CE2	1:C:754:GLN:CD	2.95	0.44
1:C:1202:LEU:CD1	1:C:1204:LEU:CD1	2.95	0.44
1:C:1319:TRP:CD1	1:C:1490:LEU:CD2	2.95	0.44
1:C:1319:TRP:CE3	1:C:1319:TRP:C	2.95	0.44
1:C:1345:TRP:CH2	1:C:1426:ALA:HB3	2.53	0.44
1:C:1437:TYR:HD2	1:C:1444:TYR:CD1	2.35	0.44
1:C:1484:GLN:HE22	2:D:2065:ILE:CB	2.25	0.44
2:D:1733:TRP:HD1	2:D:1913:LEU:HD23	1.82	0.44
2:D:1892:GLN:OE1	2:D:1897:LEU:HD22	2.17	0.44
2:D:2071:HIS:HB2	2:D:2072:HIS:H	1.44	0.44
2:D:2118:ILE:HD11	2:D:2156:GLN:CG	2.48	0.44
2:D:2478:HIS:CG	2:D:2479:ALA:N	2.85	0.44
2:D:2482:ILE:O	2:D:2482:ILE:HG23	2.17	0.44
2:D:2714:LEU:HD11	2:D:2781:LEU:CD2	2.46	0.44
2:D:2795:PHE:HD1	2:D:2845:TYR:C	2.25	0.44
2:D:3076:ASN:CB	2:D:3236:LEU:CD1	2.95	0.44
2:D:3177:LEU:HD22	2:D:3178:ASN:ND2	2.32	0.44
2:D:3328:PHE:HE1	2:D:3364:GLY:C	2.24	0.44
1:A:377:TYR:OH	1:A:401:VAL:HG11	2.17	0.44
1:A:578:LEU:HD22	1:A:578:LEU:N	2.33	0.44
1:A:582:ILE:HD13	1:A:639:LEU:HD21	2.00	0.44
1:A:724:GLN:HE21	1:A:828:LYS:HG2	1.81	0.44
1:A:771:TRP:HZ3	1:A:773:PHE:CD2	2.35	0.44
1:A:842:VAL:HG13	1:A:843:ASP:OD1	2.16	0.44
1:A:1147:LEU:HD23	1:A:1147:LEU:C	2.43	0.44
2:B:1683:VAL:HG23	2:B:1787:PRO:CG	2.48	0.44
2:B:1931:PHE:HE1	2:B:1942:LYS:CD	2.26	0.44
2:B:2084:VAL:HG12	2:B:2085:ARG:N	2.32	0.44
2:B:2822:PHE:CZ	2:B:2825:THR:HG22	2.52	0.44
2:B:3058:ALA:HB1	2:B:3067:PHE:CE1	2.52	0.44
2:B:3343:GLY:O	2:B:3344:SER:HB2	2.17	0.44
1:C:305:ALA:HB3	1:C:362:LEU:HD11	1.95	0.44
1:C:335:CYS:SG	1:C:336:GLU:N	2.91	0.44
1:C:523:ILE:C	1:C:524:PRO:CD	2.72	0.44
1:C:547:SER:H	1:C:558:THR:HG21	1.83	0.44
1:C:582:ILE:HD13	1:C:639:LEU:HD21	2.00	0.44
1:C:700:TYR:HE2	1:C:702:TYR:CE2	2.35	0.44
1:C:895:VAL:CG1	1:C:904:TRP:HB3	2.47	0.44
1:C:905:HIS:CD2	1:C:1046:HIS:CD2	3.04	0.44
1:C:1087:SER:HB2	1:C:1097:LYS:CD	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1145:GLY:CA	1:C:1190:VAL:HG11	2.44	0.44
1:C:1147:LEU:HD23	1:C:1147:LEU:C	2.43	0.44
1:C:1151:PHE:O	1:C:1153:LYS:CD	2.66	0.44
1:C:1170:PRO:O	1:C:1198:LYS:HD3	2.17	0.44
1:C:1216:VAL:HG13	1:C:1226:LYS:HD2	1.99	0.44
1:C:1265:LEU:CB	1:C:1270:LEU:HD21	2.46	0.44
1:C:1379:ILE:HD11	1:C:1381:HIS:NE2	2.33	0.44
1:C:1498:ASN:HD21	1:C:1503:THR:HG21	1.80	0.44
1:C:1567:PHE:CD1	1:C:1583:ALA:N	2.80	0.44
1:C:1618:LEU:HD11	2:D:1906:VAL:CG1	2.46	0.44
2:D:1666:MET:CE	2:D:1742:GLN:HE21	2.31	0.44
2:D:1686:LEU:CD1	2:D:1689:MET:CE	2.95	0.44
2:D:1730:PHE:CD1	2:D:1730:PHE:C	2.95	0.44
2:D:1973:VAL:HG23	2:D:1973:VAL:O	2.18	0.44
2:D:2258:VAL:CG2	2:D:2416:ILE:CG2	2.94	0.44
2:D:2489:ASP:CG	2:D:2490:HIS:H	2.26	0.44
2:D:2556:TYR:CD1	2:D:2556:TYR:C	2.96	0.44
2:D:2732:MET:CE	2:D:2759:PHE:CZ	3.00	0.44
2:D:2882:LYS:HG3	2:D:2883:MET:N	2.33	0.44
2:D:3058:ALA:HB1	2:D:3067:PHE:CE1	2.53	0.44
2:D:3378:ALA:CB	2:D:3383:LEU:HD12	2.36	0.44
1:A:241:LEU:O	1:A:264:PRO:HD2	2.18	0.44
1:A:322:VAL:CG2	1:A:377:TYR:CD1	3.00	0.44
1:A:409:PHE:CE2	2:B:3186:GLU:OE2	2.71	0.44
1:A:442:ALA:CB	1:A:505:ARG:HB3	2.48	0.44
1:A:477:TYR:CD1	1:A:477:TYR:C	2.95	0.44
1:A:493:LEU:CD2	1:A:670:PHE:CE1	2.95	0.44
1:A:698:LEU:HG	1:A:700:TYR:CD1	2.53	0.44
1:A:735:ALA:O	1:A:737:ILE:HG13	2.18	0.44
1:A:1195:ILE:HG12	1:A:1199:LEU:HG	2.00	0.44
1:A:1345:TRP:CH2	1:A:1426:ALA:HB3	2.53	0.44
1:A:1422:ILE:CG1	1:A:1603:TYR:CE1	2.97	0.44
1:A:1498:ASN:CG	1:A:1503:THR:HG21	2.42	0.44
1:A:1657:THR:HB	2:B:1898:SER:OG	2.17	0.44
2:B:1709:PRO:HB2	2:B:1719:ARG:HB3	2.00	0.44
2:B:1893:ARG:CG	2:B:1894:PHE:N	2.81	0.44
2:B:1914:LYS:CG	2:B:1918:PHE:CE1	2.95	0.44
2:B:1969:GLU:OE2	2:B:2073:ASP:HB3	2.17	0.44
2:B:2101:TYR:CE1	2:D:1693:HIS:C	2.96	0.44
2:B:2566:PHE:HB3	2:B:2567:PRO:CD	2.48	0.44
2:B:2647:TYR:CD1	2:B:2774:HIS:CE1	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2811:PHE:CD2	2:B:2823:ALA:CB	3.00	0.44
2:B:2824:GLY:HA3	2:B:2845:TYR:CZ	2.53	0.44
2:B:2976:LEU:HD23	2:B:2979:ILE:HD11	2.00	0.44
2:B:3122:ARG:HH12	2:B:3185:GLU:HA	1.82	0.44
2:B:3177:LEU:HD22	2:B:3178:ASN:ND2	2.32	0.44
2:B:3195:ARG:NH1	2:B:3295:ARG:HE	2.13	0.44
1:C:94:TRP:CH2	1:C:185:LEU:HD22	2.51	0.44
1:C:468:CYS:SG	1:C:477:TYR:HE1	2.40	0.44
1:C:490:TRP:HA	1:C:667:LEU:CD1	2.48	0.44
1:C:549:ILE:CG2	1:C:551:PHE:CE1	3.01	0.44
1:C:549:ILE:HB	1:C:552:GLU:CG	2.47	0.44
1:C:576:THR:CG2	1:C:579:PHE:CB	2.94	0.44
1:C:597:GLN:HA	1:C:777:PHE:CE1	2.51	0.44
1:C:840:LYS:C	1:C:927:TYR:CE1	2.95	0.44
1:C:900:VAL:CG1	1:C:1081:LEU:CD1	2.95	0.44
1:C:999:LEU:HD13	1:C:1129:LEU:CD2	2.45	0.44
1:C:1023:GLY:HA2	1:C:1026:GLN:HE22	1.77	0.44
1:C:1059:LEU:CD1	1:C:1063:ARG:HH21	2.31	0.44
1:C:1151:PHE:HA	1:C:1153:LYS:HE3	1.60	0.44
1:C:1202:LEU:HD13	1:C:1204:LEU:CD1	2.48	0.44
1:C:1226:LYS:HE2	1:C:1226:LYS:CA	2.27	0.44
1:C:1550:PHE:CE1	1:C:1649:GLU:CD	2.95	0.44
1:C:1588:ILE:O	1:C:1588:ILE:HG23	2.17	0.44
2:D:1769:LEU:HD23	2:D:1786:ASN:HD21	1.83	0.44
2:D:2132:HIS:HE2	2:D:2134:ASN:HB2	1.82	0.44
2:D:2272:VAL:O	2:D:2277:SER:HB2	2.17	0.44
2:D:2296:LYS:HD2	2:D:2296:LYS:C	2.42	0.44
2:D:2423:LYS:NZ	2:D:2423:LYS:HB2	2.31	0.44
2:D:2547:MET:HB2	2:D:2558:CYS:SG	2.58	0.44
2:D:2678:GLY:O	2:D:2681:THR:HG22	2.17	0.44
2:D:3029:GLN:CD	2:D:3088:TYR:CD2	2.96	0.44
2:D:3219:ILE:HG21	2:D:3261:LEU:HD12	1.99	0.44
2:D:3256:GLU:HG3	2:D:3257:THR:N	2.32	0.44
1:A:12:THR:HG22	1:A:13:GLN:H	1.81	0.44
1:A:496:THR:CG2	1:A:698:LEU:CD2	2.95	0.44
1:A:547:SER:H	1:A:558:THR:HG21	1.83	0.44
1:A:872:LEU:HA	1:A:875:PHE:HE1	1.82	0.44
1:A:1033:LEU:N	1:A:1177:LEU:HD11	2.33	0.44
1:A:1056:TRP:CH2	1:A:1060:GLN:HG3	2.52	0.44
1:A:1161:ILE:CG1	1:A:1195:ILE:HD11	2.44	0.44
1:A:1202:LEU:CD1	1:A:1204:LEU:CD1	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1278:LEU:HD12	1:A:1279:GLU:CA	2.48	0.44
1:A:1419:GLN:HE21	1:A:1419:GLN:HB2	1.58	0.44
1:A:1561:SER:HB2	1:A:1588:ILE:O	2.18	0.44
2:B:1843:PHE:CE1	2:B:1884:ILE:CG1	2.95	0.44
2:B:1955:TRP:CB	2:B:1960:ILE:CD1	2.95	0.44
2:B:2118:ILE:HD11	2:B:2156:GLN:CG	2.48	0.44
2:B:2513:THR:HG23	2:B:2514:ALA:N	2.31	0.44
2:B:2973:TRP:HE3	2:B:2974:HIS:HD2	1.66	0.44
2:B:3293:VAL:HG12	2:B:3305:GLU:HA	1.99	0.44
2:B:3355:PRO:C	2:B:3357:SER:H	2.26	0.44
1:C:70:ARG:HG2	1:C:214:ASP:CG	2.41	0.44
1:C:98:ILE:O	1:C:98:ILE:HG23	2.17	0.44
1:C:244:LYS:HZ3	1:C:263:THR:HB	1.77	0.44
1:C:477:TYR:CD1	1:C:477:TYR:C	2.95	0.44
1:C:588:GLN:NE2	1:C:597:GLN:HG3	2.33	0.44
1:C:1128:GLN:HA	1:C:1131:LYS:CE	2.47	0.44
1:C:1142:PHE:HZ	1:C:1234:VAL:CG2	2.31	0.44
1:C:1210:PHE:CD1	1:C:1210:PHE:C	2.96	0.44
1:C:1423:LEU:HD12	1:C:1423:LEU:C	2.41	0.44
1:C:1561:SER:HB2	1:C:1588:ILE:O	2.18	0.44
2:D:1784:ILE:CG2	2:D:1785:PRO:HD2	2.47	0.44
2:D:1817:LYS:HG2	2:D:1820:HIS:CE1	2.53	0.44
2:D:2464:VAL:HG13	2:D:2472:LEU:H	1.83	0.44
2:D:2771:LEU:HD22	2:D:2771:LEU:N	2.32	0.44
2:D:2811:PHE:CD2	2:D:2823:ALA:CB	3.00	0.44
2:D:2849:GLN:HG2	2:D:2853:GLN:HE21	1.82	0.44
2:D:2976:LEU:HD23	2:D:2979:ILE:HD11	2.00	0.44
2:D:3343:GLY:O	2:D:3344:SER:HB2	2.17	0.44
1:A:317:ASN:CG	1:A:342:PHE:CE2	2.95	0.44
1:A:428:ILE:HD12	1:A:428:ILE:N	2.32	0.44
1:A:493:LEU:HD13	1:A:670:PHE:CG	2.53	0.44
1:A:511:ILE:HG22	1:A:512:PRO:O	2.18	0.44
1:A:650:ARG:HH11	1:A:650:ARG:HD3	1.69	0.44
1:A:967:VAL:O	1:A:967:VAL:HG23	2.17	0.44
1:A:1015:HIS:CE1	1:A:1045:HIS:CD2	3.05	0.44
1:A:1042:PHE:CD1	1:A:1042:PHE:C	2.94	0.44
1:A:1143:PHE:HE2	1:A:1194:ASP:HB2	1.83	0.44
1:A:1210:PHE:CD1	1:A:1210:PHE:C	2.96	0.44
1:A:1216:VAL:O	1:A:1224:LEU:HD23	2.18	0.44
1:A:1219:LEU:HD11	1:A:1220:LYS:HG3	1.96	0.44
1:A:1265:LEU:CB	1:A:1270:LEU:CD2	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1363:ASN:HB3	1:A:1365:ARG:CZ	2.48	0.44
2:B:1817:LYS:HG2	2:B:1820:HIS:CE1	2.53	0.44
2:B:1990:PHE:CE2	2:B:2002:ALA:HB3	2.52	0.44
2:B:2072:HIS:CD2	2:B:2072:HIS:H	2.35	0.44
2:B:2182:ILE:CG2	2:B:2187:THR:HG22	2.48	0.44
2:B:2195:TRP:N	2:D:1921:PRO:HB3	2.05	0.44
2:B:2423:LYS:NZ	2:B:2423:LYS:HB2	2.31	0.44
2:B:2478:HIS:CG	2:B:2479:ALA:N	2.85	0.44
2:B:2619:ILE:HG12	2:B:2693:TYR:CG	2.53	0.44
2:B:2776:MET:CE	2:B:2781:LEU:HD13	2.48	0.44
2:B:2849:GLN:HG2	2:B:2853:GLN:HE21	1.82	0.44
2:B:2910:LYS:HE3	2:B:2992:LEU:HD22	1.99	0.44
2:B:3029:GLN:CD	2:B:3088:TYR:CD2	2.96	0.44
2:B:3083:GLY:HA2	2:B:3089:SER:HB2	1.99	0.44
2:B:3143:PRO:HA	2:B:3146:TYR:HD2	1.83	0.44
1:C:67:HIS:CA	1:C:267:LEU:HG	2.48	0.44
1:C:244:LYS:HD2	1:C:262:SER:OG	2.18	0.44
1:C:511:ILE:HG22	1:C:512:PRO:O	2.18	0.44
1:C:735:ALA:O	1:C:737:ILE:HG13	2.18	0.44
1:C:884:SER:O	1:C:887:ALA:HB3	2.17	0.44
1:C:1015:HIS:CE1	1:C:1045:HIS:CD2	3.05	0.44
1:C:1137:LYS:HG3	1:C:1138:SER:N	2.33	0.44
1:C:1214:TYR:HE2	1:C:1226:LYS:HD3	1.73	0.44
1:C:1361:TYR:HD2	1:C:1363:ASN:HB3	1.81	0.44
1:C:1372:ASN:HD22	1:C:1373:PRO:HD2	1.82	0.44
1:C:1436:LYS:CD	1:C:1437:TYR:CE1	2.95	0.44
1:C:1475:PRO:HB2	1:C:1478:GLU:HB3	1.98	0.44
1:C:1529:ASN:HB3	1:C:1531:TYR:CE2	2.52	0.44
2:D:1683:VAL:HG23	2:D:1787:PRO:CG	2.48	0.44
2:D:1745:LEU:HD12	2:D:1754:LEU:HD22	1.95	0.44
2:D:1776:HIS:HB3	2:D:1783:ASP:OD1	2.18	0.44
2:D:2389:LEU:C	2:D:2389:LEU:HD23	2.43	0.44
2:D:2477:LEU:H	2:D:2477:LEU:CD2	2.31	0.44
2:D:2824:GLY:HA3	2:D:2845:TYR:CZ	2.53	0.44
2:D:2939:TYR:HE1	2:D:2981:PHE:CE1	2.36	0.44
2:D:3061:GLU:OE2	2:D:3251:ARG:HD3	2.17	0.44
1:A:89:LEU:CG	1:A:211:SER:OG	2.64	0.44
1:A:322:VAL:CA	1:A:379:VAL:HG12	2.47	0.44
1:A:486:ILE:CG1	1:A:667:LEU:HD21	2.47	0.44
1:A:490:TRP:HA	1:A:667:LEU:CD1	2.48	0.44
1:A:583:LEU:HD12	1:A:718:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:ARG:HB3	1:A:638:ARG:CZ	2.47	0.44
1:A:694:TYR:CZ	1:A:695:GLU:CG	3.01	0.44
1:A:796:PHE:CD1	1:A:796:PHE:N	2.85	0.44
1:A:895:VAL:CG1	1:A:904:TRP:HB3	2.47	0.44
1:A:1128:GLN:HA	1:A:1131:LYS:CE	2.47	0.44
1:A:1143:PHE:HD2	1:A:1193:TYR:O	2.01	0.44
1:A:1242:HIS:CG	1:A:1476:TYR:HH	2.35	0.44
1:A:1280:ILE:HG23	1:A:1281:GLU:N	2.33	0.44
2:B:1733:TRP:HD1	2:B:1913:LEU:HD23	1.82	0.44
2:B:2568:HIS:CA	2:B:2758:VAL:HG11	2.42	0.44
2:B:2577:MET:HE2	2:B:2698:TRP:CE2	2.41	0.44
2:B:2882:LYS:HG3	2:B:2883:MET:N	2.33	0.44
2:B:2963:CYS:SG	2:B:2965:HIS:CD2	3.11	0.44
2:B:2996:TYR:C	2:B:2996:TYR:CD2	2.95	0.44
1:C:245:MET:HE2	1:C:264:PRO:HG3	2.00	0.44
1:C:286:THR:CG2	1:C:287:PRO:N	2.81	0.44
1:C:452:VAL:HG11	1:C:1365:ARG:HD2	1.99	0.44
1:C:600:ILE:CG2	1:C:777:PHE:CE1	2.95	0.44
1:C:688:PRO:CA	1:C:691:ILE:HG12	2.35	0.44
1:C:853:LEU:CD2	1:C:921:TYR:CD2	3.01	0.44
1:C:860:LEU:CD1	1:C:916:LEU:CD1	2.95	0.44
1:C:1114:TYR:CD1	1:C:1114:TYR:C	2.96	0.44
2:D:1701:ILE:HG22	2:D:1741:PHE:CZ	2.53	0.44
2:D:1793:ILE:HG22	2:D:1796:GLU:HB3	1.99	0.44
2:D:2032:LYS:HD3	2:D:2032:LYS:C	2.42	0.44
2:D:2155:LEU:HD11	2:D:2354:LEU:HB3	2.00	0.44
2:D:2221:GLN:H	2:D:2266:LEU:HD11	1.83	0.44
2:D:2680:LEU:HA	2:D:2871:THR:HG22	2.00	0.44
2:D:3269:LYS:HE3	2:D:3269:LYS:HA	1.99	0.44
2:D:3293:VAL:HG12	2:D:3305:GLU:HA	1.99	0.44
1:A:75:HIS:CD2	1:A:255:ILE:HG21	2.52	0.44
1:A:97:PRO:HB2	1:A:146:LYS:HD2	2.00	0.44
1:A:98:ILE:O	1:A:98:ILE:HG23	2.17	0.44
1:A:411:ASP:HB3	1:A:655:ARG:CA	2.47	0.44
1:A:853:LEU:CD2	1:A:921:TYR:CD2	3.01	0.44
1:A:1059:LEU:CD1	1:A:1063:ARG:HH21	2.31	0.44
1:A:1151:PHE:O	1:A:1153:LYS:CD	2.65	0.44
1:A:1159:PHE:CD2	1:A:1171:ALA:CB	3.01	0.44
1:A:1176:LEU:HD11	1:A:1185:TRP:HZ2	1.82	0.44
1:A:1254:SER:CB	1:A:1521:TYR:C	2.88	0.44
1:A:1442:LEU:CD2	1:A:1589:LEU:CD1	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1545:ARG:HB2	1:A:1545:ARG:HH11	1.83	0.44
2:B:1757:TRP:CZ2	2:B:1767:PRO:HD3	2.52	0.44
2:B:1862:ILE:HD11	2:B:1871:ASP:CB	2.47	0.44
2:B:2032:LYS:HD3	2:B:2032:LYS:C	2.42	0.44
2:B:2143:MET:CE	2:B:2321:LEU:CD1	2.95	0.44
2:B:2221:GLN:H	2:B:2266:LEU:HD11	1.83	0.44
2:B:2296:LYS:HD2	2:B:2296:LYS:C	2.42	0.44
2:B:2419:LEU:HD23	2:B:2419:LEU:C	2.41	0.44
2:B:2446:ILE:HD13	2:B:2450:ASP:OD2	2.18	0.44
2:B:2497:SER:CB	2:B:3322:ARG:NH2	2.72	0.44
2:B:2795:PHE:HD1	2:B:2845:TYR:C	2.25	0.44
2:B:3054:LEU:HD22	2:B:3054:LEU:H	1.82	0.44
2:B:3219:ILE:HG21	2:B:3261:LEU:HD12	1.99	0.44
2:B:3300:VAL:HB	2:B:3301:PHE:H	1.51	0.44
1:C:65:PHE:HZ	1:C:179:HIS:CD2	2.36	0.44
1:C:148:LYS:CG	1:C:150:GLY:O	2.66	0.44
1:C:160:LEU:CD2	1:C:293:TYR:CE2	3.00	0.44
1:C:239:GLU:OE1	1:C:240:LEU:HD23	2.18	0.44
1:C:486:ILE:CG1	1:C:667:LEU:HD21	2.47	0.44
1:C:509:ILE:HG22	1:C:510:GLY:H	1.73	0.44
1:C:723:GLN:HG3	1:C:826:ARG:NH2	2.30	0.44
1:C:853:LEU:CG	1:C:921:TYR:CZ	2.96	0.44
1:C:878:GLU:CG	1:C:1034:ARG:HB2	2.37	0.44
1:C:1265:LEU:CB	1:C:1270:LEU:CD2	2.95	0.44
1:C:1280:ILE:CD1	1:C:1330:ALA:CB	2.95	0.44
1:C:1280:ILE:HG23	1:C:1281:GLU:N	2.33	0.44
1:C:1301:LEU:HD23	1:C:1301:LEU:C	2.42	0.44
1:C:1442:LEU:CD2	1:C:1589:LEU:CD1	2.95	0.44
2:D:1668:ARG:NH2	2:D:1945:TYR:CE1	2.86	0.44
2:D:1770:LEU:HD12	2:D:1770:LEU:H	1.79	0.44
2:D:1770:LEU:HD22	2:D:1873:LEU:HD12	1.99	0.44
2:D:2060:ILE:HA	2:D:2061:PRO:HD2	1.76	0.44
2:D:2127:LYS:CE	2:D:2333:ILE:CD1	2.95	0.44
2:D:2175:TRP:HD1	2:D:2236:LEU:CG	2.27	0.44
2:D:2322:MET:CE	2:D:2346:ASN:HA	2.48	0.44
2:D:2419:LEU:HD23	2:D:2419:LEU:C	2.41	0.44
2:D:2460:ILE:HG23	2:D:2461:LYS:N	2.32	0.44
2:D:2605:PHE:CE2	2:D:2614:PHE:CG	3.06	0.44
2:D:2955:LYS:O	2:D:2955:LYS:HE3	2.18	0.44
2:D:3059:LEU:CD1	2:D:3187:LEU:HD21	2.47	0.44
2:D:3071:TYR:CZ	2:D:3109:LEU:CD2	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:GLU:OE1	1:A:240:LEU:HD23	2.18	0.43
1:A:389:THR:O	1:A:389:THR:HG23	2.17	0.43
1:A:1009:ILE:HD11	1:A:1191:PHE:HB2	2.00	0.43
1:A:1067:TYR:CD2	1:A:1068:ASN:N	2.86	0.43
1:A:1112:PHE:CB	1:A:1114:TYR:CE2	3.01	0.43
1:A:1141:ARG:CG	1:A:1143:PHE:CE1	2.94	0.43
1:A:1372:ASN:HD22	1:A:1373:PRO:HD2	1.82	0.43
1:A:1437:TYR:HD2	1:A:1444:TYR:CD1	2.35	0.43
2:B:1860:TYR:CD1	2:B:1860:TYR:N	2.86	0.43
2:B:1892:GLN:OE1	2:B:1897:LEU:HD22	2.17	0.43
2:B:1987:THR:CG2	2:B:2048:THR:CG2	2.94	0.43
2:B:2464:VAL:HG13	2:B:2472:LEU:H	1.83	0.43
2:B:2477:LEU:H	2:B:2477:LEU:CD2	2.31	0.43
2:B:2482:ILE:O	2:B:2482:ILE:HG23	2.17	0.43
2:B:2547:MET:HB2	2:B:2558:CYS:SG	2.58	0.43
2:B:2752:ASN:ND2	2:B:2764:PHE:CE2	2.86	0.43
2:B:3010:PHE:CZ	2:B:3101:TYR:CD1	3.05	0.43
2:B:3214:VAL:CG1	2:B:3215:VAL:N	2.81	0.43
2:B:3310:LYS:HE3	2:B:3386:ASP:OD2	2.18	0.43
1:C:796:PHE:N	1:C:796:PHE:CD1	2.85	0.43
1:C:1101:VAL:CG2	1:C:1104:ASN:CB	2.96	0.43
1:C:1112:PHE:CB	1:C:1114:TYR:CE2	3.01	0.43
1:C:1158:LYS:HG3	1:C:1173:GLU:HG2	1.99	0.43
1:C:1278:LEU:HD12	1:C:1279:GLU:CA	2.48	0.43
1:C:1338:VAL:CG1	1:C:1339:ALA:N	2.81	0.43
1:C:1395:PHE:CZ	1:C:1430:LEU:HG	2.53	0.43
2:D:2182:ILE:CG2	2:D:2187:THR:HG22	2.48	0.43
2:D:2772:ARG:NH1	2:D:2772:ARG:HB2	2.33	0.43
2:D:2950:ASN:HB2	2:D:2960:TYR:H	1.81	0.43
2:D:3355:PRO:C	2:D:3357:SER:H	2.26	0.43
1:A:396:LEU:N	1:A:396:LEU:CD1	2.81	0.43
1:A:733:LEU:C	1:A:734:LEU:HD12	2.42	0.43
1:A:749:THR:HG22	1:A:753:VAL:O	2.18	0.43
1:A:1189:ARG:CZ	2:B:2431:ARG:HA	2.47	0.43
2:B:1766:LEU:HB3	2:B:1767:PRO:CD	2.39	0.43
2:B:1913:LEU:HD13	2:B:1934:PRO:CD	2.49	0.43
2:B:2195:TRP:CG	2:D:1695:SER:OG	2.58	0.43
2:B:2851:LEU:N	2:B:2851:LEU:HD12	2.32	0.43
2:B:3346:THR:O	2:B:3350:LYS:HD2	2.18	0.43
1:C:14:GLU:HG3	1:C:15:GLU:N	2.33	0.43
1:C:160:LEU:HD21	1:C:293:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:LEU:O	1:C:200:THR:HG22	2.18	0.43
1:C:264:PRO:O	1:C:267:LEU:HB3	2.18	0.43
1:C:377:TYR:CD1	1:C:377:TYR:C	2.94	0.43
1:C:513:TYR:HB2	1:C:635:ASN:HA	2.01	0.43
1:C:578:LEU:HD22	1:C:578:LEU:N	2.33	0.43
1:C:694:TYR:CZ	1:C:695:GLU:CG	3.01	0.43
1:C:697:VAL:HG23	1:C:698:LEU:H	1.83	0.43
1:C:782:THR:HG22	1:C:786:LYS:CE	2.24	0.43
1:C:804:GLU:HB3	1:C:808:THR:HG22	2.00	0.43
1:C:810:LEU:HD11	1:C:814:LEU:CD1	2.49	0.43
1:C:1009:ILE:HD11	1:C:1191:PHE:HB2	2.00	0.43
1:C:1067:TYR:CD2	1:C:1068:ASN:N	2.86	0.43
1:C:1159:PHE:CD2	1:C:1171:ALA:CB	3.01	0.43
1:C:1233:SER:HA	2:D:2320:SER:HG	1.81	0.43
1:C:1560:THR:CG2	1:C:1561:SER:N	2.81	0.43
2:D:1671:ILE:HD13	2:D:1770:LEU:CD1	2.48	0.43
2:D:1674:LEU:HD11	2:D:1755:PRO:HB3	1.99	0.43
2:D:1924:LEU:H	2:D:1924:LEU:CD2	2.31	0.43
2:D:2186:PHE:CE1	2:D:2289:ILE:CG1	2.97	0.43
2:D:2273:TYR:CD1	2:D:2273:TYR:N	2.85	0.43
2:D:2446:ILE:HD13	2:D:2450:ASP:OD2	2.18	0.43
2:D:2483:ILE:HG22	2:D:2484:TYR:N	2.33	0.43
2:D:2542:HIS:CD2	2:D:2559:CYS:SG	3.12	0.43
2:D:2550:MET:HG3	2:D:2556:TYR:CD2	2.53	0.43
2:D:2636:ASN:ND2	2:D:2646:PHE:CZ	2.86	0.43
2:D:2963:CYS:SG	2:D:2965:HIS:CD2	3.11	0.43
2:D:3054:LEU:HD22	2:D:3054:LEU:H	1.83	0.43
2:D:3170:PHE:O	2:D:3171:ASN:HB2	2.18	0.43
2:D:3327:MET:HG3	2:D:3366:MET:H	1.82	0.43
1:A:5:ARG:CZ	1:A:89:LEU:HD22	2.40	0.43
1:A:238:GLN:NE2	1:A:820:VAL:CG1	2.77	0.43
1:A:493:LEU:HD23	1:A:493:LEU:C	2.43	0.43
1:A:516:TRP:CZ2	1:A:566:LEU:CG	2.95	0.43
1:A:560:ARG:NE	1:A:609:THR:CB	2.76	0.43
1:A:1325:VAL:HG21	1:A:1519:PHE:CD1	2.53	0.43
1:A:1565:HIS:C	1:A:1566:VAL:HG23	2.43	0.43
2:B:1684:LYS:HG2	2:D:2162:ARG:NH2	2.32	0.43
2:B:1704:PHE:HE2	2:B:1915:PRO:HB2	1.84	0.43
2:B:1798:GLU:HG3	2:B:1800:VAL:CB	2.47	0.43
2:B:1924:LEU:H	2:B:1924:LEU:CD2	2.31	0.43
2:B:2134:ASN:C	2:B:2135:GLU:HG3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2143:MET:CE	2:B:2321:LEU:HD11	2.48	0.43
2:B:2389:LEU:HD23	2:B:2389:LEU:C	2.43	0.43
2:B:2502:HIS:HB3	2:B:2766:PHE:HA	1.98	0.43
2:B:2516:VAL:HG23	2:B:2517:ASP:N	2.32	0.43
2:B:2550:MET:HG3	2:B:2556:TYR:CD2	2.53	0.43
2:B:2636:ASN:ND2	2:B:2646:PHE:CZ	2.86	0.43
2:B:2732:MET:CE	2:B:2759:PHE:CZ	3.00	0.43
2:B:3059:LEU:CD1	2:B:3187:LEU:HD21	2.47	0.43
2:B:3325:LYS:HD3	2:B:3367:TYR:HB3	2.00	0.43
1:C:97:PRO:HB3	1:C:146:LYS:N	2.33	0.43
1:C:162:ALA:CB	1:C:174:GLN:HB2	2.48	0.43
1:C:698:LEU:HG	1:C:700:TYR:CD1	2.53	0.43
1:C:802:ILE:O	1:C:810:LEU:HB3	2.18	0.43
1:C:1216:VAL:HG23	1:C:1216:VAL:O	2.19	0.43
1:C:1265:LEU:HB2	1:C:1270:LEU:CD2	2.46	0.43
1:C:1542:GLU:CA	1:C:1545:ARG:HD3	2.47	0.43
2:D:1709:PRO:HB2	2:D:1719:ARG:HB3	2.00	0.43
2:D:1770:LEU:HD22	2:D:1873:LEU:CD1	2.48	0.43
2:D:1798:GLU:HG3	2:D:1800:VAL:CB	2.47	0.43
2:D:1850:VAL:HG21	2:D:1877:HIS:NE2	2.34	0.43
2:D:1893:ARG:CG	2:D:1894:PHE:N	2.81	0.43
2:D:2134:ASN:C	2:D:2135:GLU:HG3	2.43	0.43
2:D:2284:ASP:HA	2:D:2285:PRO:HD2	1.86	0.43
2:D:2336:ASN:ND2	2:D:2338:PHE:CE2	2.86	0.43
2:D:2515:GLU:HA	2:D:2587:ARG:HD3	1.99	0.43
2:D:3305:GLU:HG3	2:D:3319:VAL:CG1	2.47	0.43
2:D:3312:VAL:HG22	2:D:3314:LEU:CD2	2.48	0.43
1:A:264:PRO:O	1:A:267:LEU:HB3	2.18	0.43
1:A:317:ASN:ND2	1:A:342:PHE:CE2	2.86	0.43
1:A:318:VAL:HG22	1:A:319:PHE:N	2.34	0.43
1:A:411:ASP:H	1:A:653:PRO:HB3	1.83	0.43
1:A:526:LEU:HD23	1:A:526:LEU:C	2.43	0.43
1:A:694:TYR:CE2	1:A:695:GLU:HG2	2.53	0.43
1:A:732:PHE:HE2	1:A:745:ILE:HD12	1.83	0.43
1:A:804:GLU:HB3	1:A:808:THR:HG22	2.00	0.43
1:A:921:TYR:HD2	1:A:923:GLY:O	2.01	0.43
1:A:933:PRO:CB	1:A:981:GLU:HB3	2.49	0.43
1:A:1056:TRP:CZ2	1:A:1060:GLN:HG3	2.53	0.43
1:A:1101:VAL:CG2	1:A:1104:ASN:CB	2.96	0.43
1:A:1379:ILE:HD12	1:A:1447:PHE:CD2	2.52	0.43
1:A:1464:ILE:HD13	1:A:1526:LEU:CB	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1674:LEU:HD11	2:B:1755:PRO:HB3	1.99	0.43
2:B:1757:TRP:HZ2	2:B:1763:ARG:NH1	2.17	0.43
2:B:1766:LEU:CD2	2:B:1806:ILE:HD12	2.48	0.43
2:B:1978:LEU:HD23	2:B:1979:LEU:N	2.33	0.43
2:B:2092:SER:O	2:B:2096:ILE:HG22	2.19	0.43
2:B:2127:LYS:CD	2:B:2333:ILE:CD1	2.95	0.43
2:B:2273:TYR:HA	2:B:2280:TYR:CD2	2.54	0.43
2:B:2680:LEU:HA	2:B:2871:THR:HG22	2.00	0.43
2:B:3059:LEU:HA	2:B:3116:TRP:CD1	2.53	0.43
1:C:104:LEU:CB	1:C:123:TRP:CE3	3.01	0.43
1:C:411:ASP:HB3	1:C:655:ARG:CA	2.47	0.43
1:C:442:ALA:CB	1:C:505:ARG:HB3	2.48	0.43
1:C:464:LEU:HD12	1:C:551:PHE:CE1	2.51	0.43
1:C:632:HIS:CE1	1:C:636:VAL:HG22	2.52	0.43
1:C:967:VAL:O	1:C:967:VAL:HG23	2.17	0.43
1:C:1108:TYR:CG	1:C:1109:LYS:N	2.86	0.43
1:C:1216:VAL:O	1:C:1224:LEU:HD23	2.18	0.43
1:C:1244:GLU:CG	1:C:1245:GLY:N	2.74	0.43
1:C:1308:CYS:HB3	1:C:1492:PRO:HD3	2.01	0.43
2:D:1707:LEU:HD23	2:D:1709:PRO:HD3	0.51	0.43
2:D:1913:LEU:HD13	2:D:1934:PRO:CD	2.49	0.43
2:D:1978:LEU:HD23	2:D:1979:LEU:N	2.33	0.43
2:D:2155:LEU:CD1	2:D:2354:LEU:HD13	2.47	0.43
2:D:2996:TYR:CD2	2:D:2996:TYR:C	2.95	0.43
2:D:3032:VAL:HG23	2:D:3086:GLU:HG3	2.00	0.43
2:D:3059:LEU:HA	2:D:3116:TRP:CD1	2.53	0.43
2:D:3310:LYS:HE3	2:D:3386:ASP:OD2	2.19	0.43
2:D:3350:LYS:O	2:D:3351:CYS:HB2	2.19	0.43
2:D:3375:PHE:CD2	2:D:3376:MET:N	2.86	0.43
1:A:286:THR:CG2	1:A:287:PRO:N	2.81	0.43
1:A:335:CYS:SG	1:A:336:GLU:N	2.91	0.43
1:A:409:PHE:CE2	2:B:3186:GLU:OE1	2.70	0.43
1:A:589:GLU:O	1:A:652:LYS:HE3	2.19	0.43
1:A:629:PHE:CG	1:A:633:HIS:CE1	3.07	0.43
1:A:634:SER:O	1:A:638:ARG:HG3	2.18	0.43
1:A:810:LEU:HD11	1:A:814:LEU:CD1	2.49	0.43
1:A:975:VAL:HG23	1:A:1021:LEU:C	2.44	0.43
1:A:1002:ASP:CG	1:A:1065:LYS:HE3	2.44	0.43
1:A:1033:LEU:HB3	1:A:1179:ASP:CB	2.38	0.43
1:A:1087:SER:HB2	1:A:1097:LYS:CD	2.27	0.43
1:A:1160:ASN:ND2	1:A:1168:CYS:HB3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1249:GLN:C	1:A:1470:ARG:CZ	2.87	0.43
1:A:1395:PHE:CZ	1:A:1430:LEU:HG	2.53	0.43
1:A:1554:LEU:CD1	1:A:1602:LEU:CD2	2.97	0.43
1:A:1570:LEU:N	1:A:1570:LEU:HD12	2.34	0.43
2:B:1701:ILE:HG22	2:B:1741:PHE:CZ	2.53	0.43
2:B:1769:LEU:HD23	2:B:1786:ASN:HD21	1.83	0.43
2:B:1822:TRP:CZ2	2:B:1826:GLN:NE2	2.87	0.43
2:B:2342:HIS:NE2	2:B:2353:LEU:HB3	2.34	0.43
2:B:2538:ILE:HA	2:B:2541:PHE:CD1	2.53	0.43
2:B:2955:LYS:O	2:B:2955:LYS:HE3	2.18	0.43
2:B:2999:TRP:HE3	2:B:3051:ILE:HG21	1.77	0.43
2:B:3119:LEU:HD23	2:B:3119:LEU:C	2.42	0.43
1:C:396:LEU:N	1:C:396:LEU:CD1	2.81	0.43
1:C:443:PHE:HD2	1:C:505:ARG:HH12	1.66	0.43
1:C:458:THR:HA	1:C:461:TYR:HE1	1.76	0.43
1:C:634:SER:O	1:C:638:ARG:HG3	2.18	0.43
1:C:1056:TRP:CZ2	1:C:1060:GLN:HG3	2.53	0.43
1:C:1195:ILE:HG12	1:C:1199:LEU:HG	2.00	0.43
1:C:1394:LEU:H	1:C:1394:LEU:CD2	2.30	0.43
2:D:1757:TRP:N	2:D:1876:ILE:HG22	2.33	0.43
2:D:2301:TRP:CZ2	2:D:2305:GLN:NE2	2.87	0.43
2:D:2752:ASN:ND2	2:D:2764:PHE:CE2	2.86	0.43
2:D:2927:LEU:O	2:D:2931:GLN:HG3	2.18	0.43
2:D:3242:MET:O	2:D:3242:MET:HG2	2.19	0.43
1:A:148:LYS:CG	1:A:150:GLY:O	2.66	0.43
1:A:160:LEU:HD21	1:A:293:TYR:CD2	2.53	0.43
1:A:162:ALA:CB	1:A:174:GLN:HB2	2.48	0.43
1:A:360:PHE:CD2	1:A:361:ASP:N	2.87	0.43
1:A:802:ILE:O	1:A:810:LEU:HB3	2.18	0.43
1:A:895:VAL:HA	1:A:898:MET:HE3	2.00	0.43
1:A:1216:VAL:HG13	1:A:1226:LYS:HD2	1.99	0.43
1:A:1379:ILE:CD1	1:A:1444:TYR:HD1	2.31	0.43
1:A:1514:GLU:HG3	1:A:1514:GLU:O	2.19	0.43
1:A:1555:LEU:HD22	1:A:1555:LEU:N	2.34	0.43
1:A:1590:GLY:HA3	1:A:1594:GLU:OE2	2.18	0.43
2:B:1668:ARG:NH2	2:B:1945:TYR:CE1	2.86	0.43
2:B:1754:LEU:HD23	2:B:1754:LEU:N	2.33	0.43
2:B:2155:LEU:HG	2:B:2354:LEU:CD1	2.48	0.43
2:B:2155:LEU:CD1	2:B:2354:LEU:HD13	2.47	0.43
2:B:2155:LEU:HD11	2:B:2354:LEU:HB3	2.00	0.43
2:B:2221:GLN:HG2	2:B:2266:LEU:HD12	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2483:ILE:HG22	2:B:2484:TYR:N	2.33	0.43
2:B:2494:HIS:HB3	2:B:3124:VAL:CG2	2.49	0.43
2:B:2804:LYS:O	2:B:2805:LYS:HB2	2.19	0.43
2:B:2813:VAL:HG23	2:B:2823:ALA:HB2	2.01	0.43
2:B:2942:ILE:CG2	2:B:2943:ALA:N	2.82	0.43
2:B:3160:LEU:CD1	2:B:3162:ASN:HB2	2.46	0.43
2:B:3170:PHE:O	2:B:3171:ASN:HB2	2.19	0.43
2:B:3211:THR:CG2	2:B:3277:TYR:CE1	3.02	0.43
1:C:50:HIS:CE1	1:C:250:TRP:HD1	2.35	0.43
1:C:428:ILE:HD12	1:C:428:ILE:N	2.32	0.43
1:C:604:THR:CG2	1:C:608:TRP:CZ3	3.02	0.43
1:C:732:PHE:HE2	1:C:745:ILE:HD12	1.83	0.43
1:C:748:LYS:HB2	1:C:754:GLN:HG2	2.01	0.43
1:C:1315:THR:HG22	1:C:1315:THR:O	2.18	0.43
1:C:1419:GLN:HE21	1:C:1419:GLN:HB2	1.59	0.43
1:C:1514:GLU:O	1:C:1514:GLU:HG3	2.19	0.43
1:C:1590:GLY:HA3	1:C:1594:GLU:OE2	2.18	0.43
2:D:1766:LEU:CD2	2:D:1806:ILE:HD12	2.48	0.43
2:D:1766:LEU:HD21	2:D:1806:ILE:CD1	2.49	0.43
2:D:1865:LEU:HD22	2:D:2013:GLU:CD	2.44	0.43
2:D:1931:PHE:HE1	2:D:1942:LYS:CD	2.26	0.43
2:D:2228:THR:HG21	2:D:2233:HIS:O	2.18	0.43
2:D:2437:ILE:HD13	2:D:2441:LEU:HD11	2.01	0.43
2:D:2566:PHE:CD1	2:D:2566:PHE:C	2.96	0.43
2:D:2619:ILE:HG12	2:D:2693:TYR:CG	2.53	0.43
2:D:2621:TYR:HE2	2:D:2693:TYR:HH	1.63	0.43
2:D:3109:LEU:HD23	2:D:3112:ILE:HD12	2.01	0.43
2:D:3214:VAL:CG1	2:D:3215:VAL:N	2.81	0.43
1:A:67:HIS:HD2	1:A:267:LEU:HB3	1.84	0.43
1:A:273:LEU:N	1:A:273:LEU:CD1	2.82	0.43
1:A:321:TYR:HD2	1:A:337:LYS:HA	1.78	0.43
1:A:549:ILE:CG2	1:A:551:PHE:CE1	3.01	0.43
1:A:645:ALA:O	1:A:648:MET:HB2	2.19	0.43
1:A:749:THR:HG23	1:A:751:ASP:CA	2.49	0.43
1:A:759:THR:CG2	1:A:760:PHE:N	2.82	0.43
1:A:903:HIS:HE1	1:A:1077:MET:HE2	1.84	0.43
1:A:946:TYR:CD2	1:A:957:ASN:ND2	2.87	0.43
1:A:1099:HIS:ND1	1:A:1112:PHE:CZ	2.86	0.43
1:A:1427:LEU:HB2	1:A:1454:HIS:CE1	2.54	0.43
2:B:1671:ILE:HD13	2:B:1770:LEU:CD1	2.48	0.43
2:B:1745:LEU:HD12	2:B:1754:LEU:HD22	1.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1776:HIS:HB3	2:B:1783:ASP:OD1	2.18	0.43
2:B:2186:PHE:CE1	2:B:2289:ILE:CG1	2.97	0.43
2:B:2195:TRP:CE3	2:D:1922:TYR:CZ	2.95	0.43
2:B:2401:PHE:CZ	2:B:2460:ILE:HG12	2.53	0.43
2:B:2542:HIS:CD2	2:B:2559:CYS:SG	3.12	0.43
2:B:2571:ARG:NH1	2:B:2708:TRP:CE3	2.87	0.43
2:B:3375:PHE:CD2	2:B:3376:MET:N	2.86	0.43
1:C:196:ASN:O	1:C:200:THR:HB	2.19	0.43
1:C:411:ASP:H	1:C:653:PRO:HB3	1.83	0.43
1:C:493:LEU:HD13	1:C:670:PHE:CG	2.53	0.43
1:C:534:ASP:O	1:C:535:SER:HB3	2.19	0.43
1:C:724:GLN:HE21	1:C:828:LYS:HG2	1.81	0.43
1:C:749:THR:HG22	1:C:753:VAL:O	2.18	0.43
1:C:759:THR:CG2	1:C:760:PHE:N	2.82	0.43
1:C:933:PRO:CB	1:C:981:GLU:HB3	2.49	0.43
1:C:1236:HIS:HD2	1:C:1238:PRO:CD	2.31	0.43
1:C:1257:ARG:CB	1:C:1521:TYR:HD1	2.17	0.43
2:D:1860:TYR:N	2:D:1860:TYR:CD1	2.86	0.43
2:D:2776:MET:CE	2:D:2781:LEU:HD13	2.48	0.43
2:D:2953:PRO:HG2	2:D:2960:TYR:HB2	2.01	0.43
2:D:3056:LEU:CD1	2:D:3191:LEU:CD2	2.97	0.43
2:D:3083:GLY:HA2	2:D:3089:SER:HB2	1.99	0.43
2:D:3143:PRO:HA	2:D:3146:TYR:HD2	1.83	0.43
2:D:3346:THR:O	2:D:3350:LYS:HD2	2.18	0.43
1:A:56:ALA:HB2	1:A:348:SER:O	2.19	0.43
1:A:229:LYS:HG2	1:A:230:ASP:N	2.34	0.43
1:A:436:VAL:HG13	1:A:437:LEU:N	2.34	0.43
1:A:559:LYS:C	1:A:559:LYS:HD3	2.44	0.43
1:A:747:ILE:HG23	1:A:796:PHE:CD2	2.52	0.43
1:A:1114:TYR:CD1	1:A:1114:TYR:C	2.96	0.43
1:A:1137:LYS:HG3	1:A:1138:SER:N	2.33	0.43
1:A:1185:TRP:HZ3	1:A:1187:TYR:CD2	2.37	0.43
1:A:1242:HIS:HB3	1:A:1249:GLN:HE22	1.83	0.43
1:A:1259:ARG:CG	1:A:1339:ALA:HB3	2.49	0.43
1:A:1265:LEU:HD13	1:A:1269:GLU:OE1	2.19	0.43
1:A:1315:THR:O	1:A:1315:THR:HG22	2.18	0.43
1:A:1328:GLU:OE1	1:A:1521:TYR:CE2	2.71	0.43
1:A:1328:GLU:O	1:A:1332:LEU:HD13	2.19	0.43
1:A:1494:ASP:OD1	1:A:1507:ALA:HB1	2.19	0.43
2:B:1666:MET:CE	2:B:1742:GLN:HE21	2.31	0.43
2:B:1732:GLN:CB	2:B:1934:PRO:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1766:LEU:HD21	2:B:1806:ILE:CD1	2.49	0.43
2:B:1864:HIS:CE1	2:B:1866:HIS:CG	3.07	0.43
2:B:2195:TRP:HD1	2:D:1695:SER:CA	2.20	0.43
2:B:2556:TYR:CD1	2:B:2556:TYR:C	2.96	0.43
2:B:2634:LEU:HA	2:B:2676:TRP:CZ3	2.52	0.43
2:B:3032:VAL:HG23	2:B:3086:GLU:HG3	2.00	0.43
2:B:3142:HIS:CG	2:B:3146:TYR:CE2	3.06	0.43
2:B:3347:ALA:CB	2:D:3315:PRO:HG2	2.46	0.43
2:B:3350:LYS:O	2:B:3351:CYS:HB2	2.18	0.43
1:C:60:HIS:HD2	1:C:65:PHE:HE2	1.59	0.43
1:C:97:PRO:CD	1:C:153:THR:HG21	2.49	0.43
1:C:439:LEU:CB	1:C:544:PHE:HZ	2.28	0.43
1:C:462:HIS:CE1	1:C:629:PHE:HZ	2.31	0.43
1:C:645:ALA:O	1:C:648:MET:HB2	2.19	0.43
1:C:650:ARG:HH11	1:C:650:ARG:HD3	1.69	0.43
1:C:694:TYR:CE2	1:C:695:GLU:HG2	2.53	0.43
1:C:1161:ILE:HG23	1:C:1210:PHE:CD1	2.54	0.43
1:C:1242:HIS:HB3	1:C:1249:GLN:HE22	1.83	0.43
1:C:1251:GLU:CD	1:C:1251:GLU:H	2.26	0.43
1:C:1262:ILE:CG2	1:C:1341:PRO:HB2	2.48	0.43
1:C:1403:GLN:HE22	1:C:1605:LEU:HD21	1.79	0.43
1:C:1422:ILE:HA	1:C:1425:ASN:HD21	1.82	0.43
2:D:1735:ARG:HD2	2:D:1937:THR:HG22	1.99	0.43
2:D:2072:HIS:H	2:D:2072:HIS:CD2	2.35	0.43
2:D:2168:VAL:CG2	2:D:2169:ALA:N	2.82	0.43
2:D:2296:LYS:HG2	2:D:2358:TYR:CD1	2.54	0.43
2:D:2301:TRP:O	2:D:2305:GLN:HG2	2.19	0.43
2:D:2942:ILE:HA	2:D:2942:ILE:HD12	1.86	0.43
2:D:3024:ILE:HG21	2:D:3027:ILE:HG22	2.00	0.43
2:D:3122:ARG:HH12	2:D:3185:GLU:HA	1.82	0.43
2:D:3205:VAL:CG1	2:D:3291:ILE:HD11	2.49	0.43
2:D:3211:THR:CG2	2:D:3277:TYR:CE1	3.02	0.43
2:D:3309:GLY:HA2	2:D:3339:MET:CE	2.49	0.43
1:A:65:PHE:HZ	1:A:179:HIS:CD2	2.36	0.43
1:A:67:HIS:CA	1:A:267:LEU:HG	2.48	0.43
1:A:245:MET:HE2	1:A:264:PRO:HG3	2.00	0.43
1:A:891:PHE:CG	1:A:1183:MET:HG2	2.54	0.43
1:A:912:SER:CB	1:A:1043:TYR:CE1	3.00	0.43
1:A:1013:ILE:HD12	1:A:1013:ILE:C	2.44	0.43
1:A:1379:ILE:HD11	1:A:1381:HIS:NE2	2.33	0.43
1:A:1588:ILE:O	1:A:1588:ILE:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1757:TRP:N	2:B:1876:ILE:HG22	2.34	0.43
2:B:1780:THR:CG2	2:B:1781:GLY:N	2.82	0.43
2:B:1973:VAL:HG23	2:B:1973:VAL:O	2.18	0.43
2:B:2101:TYR:CD1	2:D:1693:HIS:C	2.96	0.43
2:B:2268:GLY:HA3	2:B:2276:SER:H	1.84	0.43
2:B:2322:MET:CE	2:B:2346:ASN:HA	2.48	0.43
2:B:2459:PHE:O	2:B:2460:ILE:HD12	2.19	0.43
2:B:2570:HIS:O	2:B:2574:THR:HG23	2.19	0.43
2:B:2637:ASP:HA	2:B:2638:PRO:HD3	1.72	0.43
2:B:2760:GLU:HG2	2:B:2763:ARG:HG3	2.01	0.43
2:B:2805:LYS:CG	2:B:2806:SER:N	2.82	0.43
2:B:2909:ARG:NH2	2:B:2979:ILE:HG22	2.34	0.43
2:B:2953:PRO:HG2	2:B:2960:TYR:HB2	2.01	0.43
2:B:3287:LEU:CB	2:B:3288:PRO:CA	2.97	0.43
2:B:3318:VAL:HG22	2:B:3394:HIS:CB	2.48	0.43
1:C:68:TRP:CA	1:C:245:MET:SD	3.07	0.43
1:C:69:HIS:CD2	1:C:210:HIS:NE2	2.87	0.43
1:C:97:PRO:HB2	1:C:146:LYS:HD2	2.00	0.43
1:C:159:VAL:CG2	1:C:160:LEU:N	2.82	0.43
1:C:194:MET:SD	1:C:205:ILE:CD1	3.07	0.43
1:C:280:LEU:HD22	1:C:280:LEU:N	2.34	0.43
1:C:360:PHE:CD2	1:C:361:ASP:N	2.87	0.43
1:C:532:TYR:HE2	1:C:534:ASP:CB	2.31	0.43
1:C:895:VAL:HA	1:C:898:MET:HE3	2.00	0.43
1:C:980:PHE:CD2	1:C:980:PHE:C	2.95	0.43
1:C:1192:LYS:HE3	1:C:1235:ILE:HD12	1.98	0.43
1:C:1259:ARG:CG	1:C:1339:ALA:HB3	2.49	0.43
1:C:1325:VAL:HG21	1:C:1519:PHE:CD1	2.53	0.43
1:C:1379:ILE:CD1	1:C:1444:TYR:HD1	2.31	0.43
1:C:1607:ILE:CD1	1:C:1611:LEU:HD11	2.31	0.43
2:D:1715:ALA:CA	2:D:1719:ARG:NH2	2.47	0.43
2:D:2126:ALA:HB3	2:D:2135:GLU:HB3	2.01	0.43
2:D:2143:MET:CE	2:D:2321:LEU:HD11	2.48	0.43
2:D:2172:TYR:CB	2:D:2293:PHE:N	2.82	0.43
2:D:2273:TYR:CE2	2:D:2280:TYR:CZ	3.07	0.43
2:D:2571:ARG:NH1	2:D:2708:TRP:CE3	2.87	0.43
2:D:3210:ARG:NH2	2:D:3243:PRO:HB3	2.34	0.43
2:D:3327:MET:CG	2:D:3328:PHE:N	2.82	0.43
2:D:3341:ASN:OD1	2:D:3359:HIS:HD2	2.02	0.43
1:A:12:THR:CG2	1:A:13:GLN:N	2.82	0.43
1:A:32:SER:HA	1:A:37:LYS:CG	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:LEU:HB3	1:A:85:ARG:HB3	1.97	0.43
1:A:110:TYR:CD1	1:A:110:TYR:C	2.97	0.43
1:A:317:ASN:ND2	1:A:319:PHE:CZ	2.87	0.43
1:A:446:PHE:CD2	1:A:505:ARG:NH2	2.87	0.43
1:A:453:ASP:HB3	1:A:678:ASN:CG	2.44	0.43
1:A:604:THR:CG2	1:A:608:TRP:CZ3	3.02	0.43
1:A:861:LYS:HZ3	1:A:962:GLY:CA	2.32	0.43
1:A:1142:PHE:HZ	1:A:1234:VAL:CG2	2.31	0.43
1:A:1202:LEU:HD13	1:A:1204:LEU:CD1	2.48	0.43
1:A:1516:GLN:C	1:A:1518:SER:H	2.27	0.43
1:A:1662:THR:CB	2:B:1893:ARG:CB	2.88	0.43
2:B:2101:TYR:O	2:D:1693:HIS:CD2	2.72	0.43
2:B:2175:TRP:HD1	2:B:2236:LEU:CG	2.28	0.43
2:B:2296:LYS:HG2	2:B:2358:TYR:CD1	2.54	0.43
2:B:2383:ARG:NE	2:B:2385:PHE:CZ	2.87	0.43
2:B:2516:VAL:CG2	2:B:2517:ASP:N	2.82	0.43
2:B:3033:ARG:HD2	2:B:3033:ARG:N	2.34	0.43
2:B:3287:LEU:HB2	2:B:3289:ALA:N	2.34	0.43
2:B:3305:GLU:HG3	2:B:3319:VAL:CG1	2.48	0.43
2:B:3308:ILE:HG12	2:B:3309:GLY:H	1.84	0.43
1:C:171:PHE:CZ	1:C:175:PHE:CD1	3.07	0.43
1:C:442:ALA:HB1	1:C:505:ARG:CD	2.48	0.43
1:C:453:ASP:HB3	1:C:678:ASN:CG	2.44	0.43
1:C:559:LYS:HD3	1:C:559:LYS:C	2.44	0.43
1:C:629:PHE:CG	1:C:633:HIS:CE1	3.07	0.43
1:C:667:LEU:HG	1:C:688:PRO:HG3	2.00	0.43
1:C:791:THR:CG2	1:C:794:GLY:H	2.18	0.43
1:C:1099:HIS:ND1	1:C:1112:PHE:CZ	2.86	0.43
2:D:1689:MET:CB	2:D:1748:HIS:CE1	3.02	0.43
2:D:1974:PHE:HD2	2:D:2024:TYR:C	2.27	0.43
2:D:2091:LEU:HD22	2:D:2095:ASP:CG	2.44	0.43
2:D:2103:LEU:HD12	2:D:2204:PHE:CZ	2.54	0.43
2:D:2156:GLN:HE21	2:D:2156:GLN:CA	2.31	0.43
2:D:2273:TYR:HA	2:D:2280:TYR:CD2	2.54	0.43
2:D:2516:VAL:CG2	2:D:2517:ASP:N	2.82	0.43
2:D:2566:PHE:HB3	2:D:2567:PRO:CD	2.48	0.43
2:D:3056:LEU:HD13	2:D:3056:LEU:C	2.44	0.43
2:D:3204:PHE:CB	2:D:3206:LEU:CD2	2.94	0.43
2:D:3263:LEU:HD22	2:D:3269:LYS:HZ2	1.83	0.43
1:A:14:GLU:HG3	1:A:15:GLU:N	2.33	0.42
1:A:68:TRP:CA	1:A:245:MET:SD	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:LEU:HD23	1:A:297:ARG:CZ	2.49	0.42
1:A:197:LEU:O	1:A:200:THR:HG22	2.18	0.42
1:A:442:ALA:HB1	1:A:505:ARG:CD	2.48	0.42
1:A:451:SER:HB2	1:A:1272:SER:HA	2.00	0.42
1:A:498:VAL:HB	1:A:630:TYR:HE1	1.77	0.42
1:A:513:TYR:HB2	1:A:635:ASN:HA	2.01	0.42
1:A:532:TYR:HE2	1:A:534:ASP:CB	2.31	0.42
1:A:600:ILE:CG2	1:A:601:THR:N	2.82	0.42
1:A:619:SER:HB3	1:A:622:TYR:HB2	2.01	0.42
1:A:748:LYS:HB2	1:A:754:GLN:HG2	2.01	0.42
1:A:1034:ARG:CD	1:A:1035:TYR:CE2	3.01	0.42
1:A:1126:ILE:HD12	1:A:1126:ILE:H	1.84	0.42
1:A:1453:LEU:H	1:A:1453:LEU:CD1	2.31	0.42
2:B:1686:LEU:CD1	2:B:1689:MET:CE	2.95	0.42
2:B:1757:TRP:CB	2:B:1876:ILE:CG2	2.95	0.42
2:B:2126:ALA:HB3	2:B:2135:GLU:HB3	2.01	0.42
2:B:2214:THR:CG2	2:B:2215:TYR:N	2.81	0.42
2:B:2273:TYR:CE2	2:B:2280:TYR:CZ	3.07	0.42
2:B:2544:ASN:CG	2:B:2545:PRO:HA	2.44	0.42
2:B:2645:PHE:O	2:B:2648:ARG:HG2	2.19	0.42
2:B:2720:LEU:HD23	2:B:2900:GLU:HB3	2.01	0.42
2:B:2756:THR:CG2	2:B:2757:ASP:N	2.82	0.42
2:B:3291:ILE:CD1	2:B:3314:LEU:CD1	2.94	0.42
1:C:42:HIS:CD2	1:C:206:PHE:CZ	3.07	0.42
1:C:317:ASN:ND2	1:C:319:PHE:CZ	2.87	0.42
1:C:384:PHE:CZ	1:C:388:GLY:CA	2.95	0.42
1:C:436:VAL:HG13	1:C:437:LEU:N	2.34	0.42
1:C:490:TRP:CA	1:C:667:LEU:HD13	2.49	0.42
1:C:494:PHE:CE2	1:C:630:TYR:CE1	3.07	0.42
1:C:526:LEU:HD23	1:C:526:LEU:C	2.43	0.42
1:C:552:GLU:HB2	1:C:554:ASN:OD1	2.20	0.42
1:C:781:ILE:CG2	1:C:785:LEU:CG	2.94	0.42
1:C:975:VAL:HG23	1:C:1021:LEU:C	2.44	0.42
1:C:1095:VAL:CG1	1:C:1099:HIS:CE1	3.02	0.42
1:C:1124:LEU:HD11	1:C:1132:LYS:HD3	2.01	0.42
1:C:1185:TRP:CE3	1:C:1185:TRP:C	2.97	0.42
1:C:1328:GLU:OE1	1:C:1521:TYR:CE2	2.70	0.42
1:C:1328:GLU:O	1:C:1332:LEU:HD13	2.19	0.42
1:C:1565:HIS:C	1:C:1566:VAL:HG23	2.43	0.42
1:C:1567:PHE:HE1	1:C:1610:ALA:CB	2.33	0.42
1:C:1646:ILE:HG23	2:D:1906:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1754:LEU:N	2:D:1754:LEU:HD23	2.33	0.42
2:D:1757:TRP:HZ2	2:D:1763:ARG:NH1	2.17	0.42
2:D:1822:TRP:CZ2	2:D:1826:GLN:NE2	2.87	0.42
2:D:2092:SER:O	2:D:2096:ILE:HG22	2.19	0.42
2:D:2151:ARG:NH2	2:D:2298:TRP:CE3	2.87	0.42
2:D:2323:THR:O	2:D:2344:VAL:HG23	2.19	0.42
2:D:2383:ARG:HE	2:D:2385:PHE:HZ	1.64	0.42
2:D:2383:ARG:NE	2:D:2385:PHE:HZ	2.17	0.42
2:D:2388:PHE:N	2:D:2432:LEU:CD1	2.82	0.42
2:D:2427:TRP:HZ3	2:D:2429:TYR:CD2	2.37	0.42
2:D:2538:ILE:HA	2:D:2541:PHE:CD1	2.53	0.42
2:D:2544:ASN:CG	2:D:2545:PRO:HA	2.44	0.42
2:D:2570:HIS:O	2:D:2574:THR:HG23	2.19	0.42
2:D:2688:LEU:CD1	2:D:2829:LEU:HD11	2.49	0.42
2:D:2794:THR:C	2:D:2847:ILE:HG12	2.44	0.42
2:D:2812:ASP:HB2	2:D:2821:HIS:O	2.19	0.42
2:D:3325:LYS:HD3	2:D:3367:TYR:HB3	2.00	0.42
2:D:3388:ASN:OD1	2:D:3390:ARG:CD	2.67	0.42
1:A:23:LEU:HB3	1:A:122:TYR:HD2	1.74	0.42
1:A:97:PRO:CD	1:A:153:THR:HG21	2.49	0.42
1:A:160:LEU:CD2	1:A:293:TYR:HE2	2.32	0.42
1:A:171:PHE:CZ	1:A:175:PHE:CD1	3.07	0.42
1:A:280:LEU:N	1:A:280:LEU:HD22	2.34	0.42
1:A:292:THR:CG2	1:A:293:TYR:N	2.82	0.42
1:A:853:LEU:CG	1:A:921:TYR:CZ	2.96	0.42
1:A:901:PHE:HB3	1:A:902:PRO:CD	2.44	0.42
1:A:989:THR:CG2	1:A:990:SER:N	2.82	0.42
1:A:1108:TYR:CG	1:A:1109:LYS:N	2.86	0.42
1:A:1161:ILE:HG23	1:A:1210:PHE:CD1	2.54	0.42
1:A:1202:LEU:HB2	1:A:1204:LEU:HG	2.01	0.42
1:A:1405:LEU:HD11	1:A:1540:LEU:HD21	2.00	0.42
1:A:1531:TYR:CD1	1:A:1535:GLN:NE2	2.87	0.42
1:A:1533:ILE:HB	1:A:1534:PRO:CD	2.44	0.42
1:A:1550:PHE:HE1	1:A:1649:GLU:CD	2.27	0.42
1:A:1567:PHE:HB2	1:A:1582:GLU:N	2.33	0.42
2:B:1689:MET:CB	2:B:1748:HIS:CE1	3.02	0.42
2:B:1757:TRP:CZ2	2:B:1763:ARG:CZ	3.02	0.42
2:B:2088:LEU:HD12	2:B:2089:SER:CA	2.49	0.42
2:B:2141:HIS:CE1	2:B:2278:LEU:HD11	2.55	0.42
2:B:2228:THR:HG21	2:B:2233:HIS:O	2.18	0.42
2:B:2294:VAL:CG1	2:B:2295:ASP:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2301:TRP:O	2:B:2305:GLN:HG2	2.19	0.42
2:B:2503:GLY:HA3	2:B:2588:VAL:HG12	1.98	0.42
2:B:2605:PHE:CE2	2:B:2614:PHE:CG	3.06	0.42
2:B:3190:VAL:CG1	2:B:3191:LEU:N	2.83	0.42
2:B:3344:SER:HB3	2:B:3348:MET:HB3	1.98	0.42
1:C:317:ASN:ND2	1:C:342:PHE:CE2	2.87	0.42
1:C:452:VAL:CG2	1:C:453:ASP:N	2.82	0.42
1:C:481:VAL:CB	1:C:486:ILE:CG2	2.97	0.42
1:C:492:ARG:O	1:C:496:THR:HG23	2.19	0.42
1:C:493:LEU:HD23	1:C:493:LEU:C	2.43	0.42
1:C:903:HIS:HE1	1:C:1077:MET:HE2	1.84	0.42
1:C:910:VAL:HG21	1:C:1112:PHE:CE2	2.54	0.42
1:C:1002:ASP:CG	1:C:1065:LYS:HE3	2.44	0.42
1:C:1110:THR:CG2	1:C:1111:ASN:N	2.81	0.42
1:C:1231:GLN:HA	1:C:1231:GLN:HE21	1.83	0.42
1:C:1567:PHE:HB2	1:C:1582:GLU:N	2.33	0.42
2:D:2105:SER:CB	2:D:2164:HIS:HD2	2.32	0.42
2:D:2383:ARG:NE	2:D:2385:PHE:CZ	2.87	0.42
2:D:2459:PHE:O	2:D:2460:ILE:HD12	2.19	0.42
2:D:2572:LEU:HD23	2:D:2764:PHE:CE2	2.40	0.42
2:D:2622:LEU:CG	2:D:2683:TYR:CE1	2.94	0.42
2:D:2688:LEU:HD13	2:D:2829:LEU:HD11	2.01	0.42
2:D:3081:LEU:H	2:D:3081:LEU:CD2	2.29	0.42
2:D:3326:ILE:HG12	2:D:3327:MET:N	2.34	0.42
1:A:69:HIS:CD2	1:A:210:HIS:NE2	2.87	0.42
1:A:244:LYS:HD2	1:A:262:SER:OG	2.18	0.42
1:A:534:ASP:O	1:A:535:SER:HB3	2.19	0.42
1:A:588:GLN:NE2	1:A:597:GLN:HG3	2.33	0.42
1:A:710:ILE:HG21	1:A:715:ILE:CA	2.49	0.42
1:A:724:GLN:NE2	1:A:828:LYS:CD	2.78	0.42
1:A:728:ILE:HG12	1:A:822:ARG:HG3	2.02	0.42
1:A:994:GLN:HA	1:A:994:GLN:HE21	1.84	0.42
1:A:1092:THR:CG2	1:A:1093:ASP:N	2.82	0.42
1:A:1185:TRP:CE3	1:A:1185:TRP:C	2.97	0.42
1:A:1190:VAL:CG1	1:A:1191:PHE:N	2.82	0.42
1:A:1306:ILE:CG2	1:A:1307:SER:N	2.83	0.42
2:B:1789:ILE:CG2	2:B:1790:GLY:N	2.82	0.42
2:B:1910:LYS:O	2:B:1933:LYS:HG2	2.19	0.42
2:B:1949:THR:CG2	2:B:1950:LEU:N	2.82	0.42
2:B:2151:ARG:NH2	2:B:2298:TRP:CE3	2.87	0.42
2:B:2172:TYR:CB	2:B:2293:PHE:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2268:GLY:HA2	2:B:2274:SER:HB2	2.01	0.42
2:B:2301:TRP:CZ2	2:B:2305:GLN:NE2	2.87	0.42
2:B:2323:THR:O	2:B:2344:VAL:HG23	2.19	0.42
2:B:2338:PHE:CD1	2:B:2338:PHE:C	2.97	0.42
2:B:2405:LYS:CG	2:B:2406:THR:N	2.82	0.42
2:B:2631:ARG:NE	2:B:2679:GLY:HA2	2.22	0.42
2:B:2651:LEU:CD2	2:B:2785:LEU:HD21	2.48	0.42
2:B:2794:THR:C	2:B:2847:ILE:HG12	2.44	0.42
2:B:3205:VAL:CG1	2:B:3291:ILE:HD11	2.49	0.42
2:B:3211:THR:HG21	2:B:3277:TYR:CD1	2.55	0.42
1:C:12:THR:CG2	1:C:13:GLN:N	2.82	0.42
1:C:292:THR:CG2	1:C:293:TYR:N	2.82	0.42
1:C:305:ALA:N	1:C:362:LEU:CD1	2.82	0.42
1:C:485:PRO:HG2	1:C:662:LEU:CD2	2.49	0.42
1:C:514:TRP:CZ2	1:C:524:PRO:CD	2.98	0.42
1:C:516:TRP:CD1	1:C:605:ILE:HD12	2.54	0.42
1:C:909:THR:CG2	1:C:910:VAL:N	2.83	0.42
1:C:1013:ILE:HD12	1:C:1013:ILE:C	2.44	0.42
1:C:1018:ILE:CG1	1:C:1045:HIS:CE1	3.03	0.42
1:C:1143:PHE:HE2	1:C:1194:ASP:HB2	1.83	0.42
1:C:1161:ILE:CG1	1:C:1195:ILE:HD11	2.44	0.42
1:C:1252:VAL:HG23	1:C:1253:THR:N	2.34	0.42
1:C:1381:HIS:CG	1:C:1382:GLU:N	2.87	0.42
1:C:1405:LEU:HD11	1:C:1540:LEU:HD21	2.00	0.42
1:C:1661:HIS:CE1	1:C:1663:GLU:HG2	2.54	0.42
2:D:1705:HIS:CE1	2:D:1865:LEU:HD12	2.45	0.42
2:D:2088:LEU:HD12	2:D:2089:SER:CA	2.49	0.42
2:D:2178:PRO:HA	2:D:2226:HIS:ND1	2.34	0.42
2:D:2243:ALA:CA	2:D:2255:GLN:HG2	2.49	0.42
2:D:2342:HIS:NE2	2:D:2353:LEU:HB3	2.34	0.42
2:D:2558:CYS:HB3	2:D:2738:PRO:HD3	2.01	0.42
2:D:2942:ILE:CG2	2:D:2943:ALA:N	2.82	0.42
2:D:3056:LEU:HD21	2:D:3190:VAL:CG1	2.50	0.42
2:D:3291:ILE:CD1	2:D:3314:LEU:CD1	2.94	0.42
2:D:3308:ILE:HG12	2:D:3309:GLY:H	1.84	0.42
1:A:97:PRO:HB3	1:A:146:LYS:N	2.33	0.42
1:A:104:LEU:CB	1:A:123:TRP:CE3	3.01	0.42
1:A:697:VAL:CG2	1:A:698:LEU:N	2.82	0.42
1:A:715:ILE:CG2	1:A:716:GLU:N	2.83	0.42
1:A:748:LYS:HB3	1:A:797:GLU:HB2	2.01	0.42
1:A:957:ASN:HB2	1:A:960:PHE:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1142:PHE:CZ	1:A:1234:VAL:CG2	3.02	0.42
1:A:1280:ILE:HD11	1:A:1330:ALA:CB	2.50	0.42
1:A:1436:LYS:HG3	1:A:1437:TYR:HD1	1.83	0.42
1:A:1567:PHE:CD1	1:A:1583:ALA:CA	2.95	0.42
2:B:1741:PHE:CE2	2:B:1875:TYR:CE1	3.08	0.42
2:B:2103:LEU:HD12	2:B:2204:PHE:CZ	2.54	0.42
2:B:2437:ILE:HD13	2:B:2441:LEU:HD11	2.00	0.42
2:B:2467:VAL:CG1	2:B:2468:ASN:N	2.82	0.42
2:B:2471:VAL:CG1	2:B:2472:LEU:N	2.83	0.42
2:B:2558:CYS:HB3	2:B:2738:PRO:HD3	2.02	0.42
2:B:2646:PHE:O	2:B:2650:VAL:HG23	2.20	0.42
2:B:3054:LEU:H	2:B:3054:LEU:CD2	2.33	0.42
2:B:3132:CYS:SG	2:B:3248:ARG:NH2	2.92	0.42
2:B:3341:ASN:OD1	2:B:3359:HIS:HD2	2.02	0.42
2:B:3374:TYR:HB3	2:B:3375:PHE:H	1.65	0.42
1:C:241:LEU:O	1:C:264:PRO:HD2	2.18	0.42
1:C:279:THR:C	1:C:280:LEU:HD22	2.44	0.42
1:C:446:PHE:CD2	1:C:505:ARG:NH2	2.87	0.42
1:C:492:ARG:HG3	1:C:637:ASP:OD2	2.19	0.42
1:C:494:PHE:HE2	1:C:630:TYR:CE1	2.37	0.42
1:C:619:SER:HB3	1:C:622:TYR:HB2	2.01	0.42
1:C:749:THR:HG23	1:C:751:ASP:CA	2.49	0.42
1:C:802:ILE:CD1	1:C:815:ILE:HG12	2.41	0.42
1:C:946:TYR:CD2	1:C:957:ASN:ND2	2.87	0.42
1:C:972:THR:CG2	1:C:973:ARG:N	2.82	0.42
1:C:1092:THR:CG2	1:C:1093:ASP:N	2.82	0.42
1:C:1161:ILE:CD1	1:C:1171:ALA:CB	2.94	0.42
1:C:1185:TRP:HZ3	1:C:1187:TYR:CD2	2.37	0.42
1:C:1306:ILE:CG2	1:C:1307:SER:N	2.83	0.42
1:C:1392:ASP:O	1:C:1395:PHE:CE2	2.72	0.42
1:C:1427:LEU:HB2	1:C:1454:HIS:CE1	2.54	0.42
1:C:1494:ASP:OD1	1:C:1507:ALA:HB1	2.19	0.42
1:C:1570:LEU:HD12	1:C:1570:LEU:N	2.34	0.42
1:C:1640:VAL:CG2	1:C:1641:ILE:N	2.83	0.42
2:D:1732:GLN:CB	2:D:1934:PRO:HB3	2.49	0.42
2:D:1780:THR:CG2	2:D:1781:GLY:N	2.82	0.42
2:D:2127:LYS:CD	2:D:2333:ILE:CD1	2.95	0.42
2:D:2140:ILE:CG1	2:D:2143:MET:CB	2.96	0.42
2:D:2289:ILE:H	2:D:2289:ILE:CD1	2.33	0.42
2:D:2569:TRP:HD1	2:D:2736:LEU:HB3	1.85	0.42
2:D:2651:LEU:CD2	2:D:2785:LEU:HD21	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2792:ASP:HA	2:D:2890:PRO:O	2.19	0.42
2:D:2912:ILE:HG23	2:D:2996:TYR:O	2.20	0.42
2:D:2965:HIS:CE1	2:D:3093:LEU:CD1	3.03	0.42
2:D:3211:THR:HG21	2:D:3277:TYR:CD1	2.55	0.42
2:D:3217:VAL:HG11	2:D:3252:PHE:CE2	2.55	0.42
2:D:3220:LYS:HE3	2:D:3272:PHE:HD2	1.85	0.42
2:D:3287:LEU:HB2	2:D:3289:ALA:N	2.34	0.42
1:A:135:THR:HG21	1:A:203:ASP:OD1	2.20	0.42
1:A:160:LEU:CD2	1:A:293:TYR:CE2	3.00	0.42
1:A:240:LEU:HD22	1:A:240:LEU:N	2.35	0.42
1:A:492:ARG:HG3	1:A:637:ASP:OD2	2.19	0.42
1:A:508:THR:CG2	1:A:509:ILE:N	2.83	0.42
1:A:514:TRP:CZ2	1:A:524:PRO:CD	2.98	0.42
1:A:645:ALA:HB1	1:A:712:LEU:HD13	2.01	0.42
1:A:1151:PHE:HA	1:A:1153:LYS:HE3	1.60	0.42
1:A:1324:VAL:CG1	1:A:1325:VAL:N	2.83	0.42
1:A:1381:HIS:CG	1:A:1382:GLU:N	2.87	0.42
1:A:1392:ASP:O	1:A:1395:PHE:CE2	2.72	0.42
1:A:1442:LEU:HD13	1:A:1442:LEU:O	2.18	0.42
1:A:1503:THR:CG2	1:A:1504:LYS:N	2.83	0.42
1:A:1618:LEU:CD1	2:B:1906:VAL:HG11	2.45	0.42
2:B:1683:VAL:O	2:B:1787:PRO:HG3	2.20	0.42
2:B:1759:TRP:CD2	2:B:1850:VAL:HG11	2.55	0.42
2:B:1931:PHE:CB	2:B:1943:PHE:CZ	3.02	0.42
2:B:1974:PHE:HD2	2:B:2024:TYR:C	2.27	0.42
2:B:2243:ALA:CA	2:B:2255:GLN:HG2	2.49	0.42
2:B:3024:ILE:HG21	2:B:3027:ILE:HG22	2.00	0.42
2:B:3074:LEU:HD13	2:B:3074:LEU:O	2.20	0.42
2:B:3210:ARG:NH2	2:B:3243:PRO:HB3	2.34	0.42
1:C:305:ALA:HB2	1:C:362:LEU:HD21	2.02	0.42
1:C:516:TRP:CD1	1:C:605:ILE:CD1	3.03	0.42
1:C:1087:SER:CA	1:C:1097:LYS:HZ2	2.15	0.42
1:C:1143:PHE:HD2	1:C:1193:TYR:O	2.01	0.42
1:C:1265:LEU:HD13	1:C:1269:GLU:OE1	2.19	0.42
1:C:1327:VAL:HG23	1:C:1328:GLU:N	2.34	0.42
1:C:1545:ARG:HB2	1:C:1545:ARG:HH11	1.83	0.42
1:C:1550:PHE:HE1	1:C:1649:GLU:CD	2.27	0.42
2:D:1864:HIS:CE1	2:D:1866:HIS:CG	3.07	0.42
2:D:1946:ILE:CG1	2:D:1947:TYR:N	2.83	0.42
2:D:2217:VAL:CG1	2:D:2218:ARG:N	2.82	0.42
2:D:2268:GLY:HA3	2:D:2276:SER:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2405:LYS:CG	2:D:2406:THR:N	2.82	0.42
2:D:2646:PHE:O	2:D:2650:VAL:HG23	2.20	0.42
2:D:2741:ASP:HA	2:D:2742:PRO:HD2	1.87	0.42
2:D:2743:ILE:CG2	2:D:2744:ASN:N	2.82	0.42
2:D:2756:THR:CG2	2:D:2757:ASP:N	2.82	0.42
2:D:2804:LYS:O	2:D:2805:LYS:HB2	2.19	0.42
2:D:2856:LEU:HD13	2:D:2862:PHE:CB	2.49	0.42
2:D:2909:ARG:NH2	2:D:2979:ILE:HG22	2.34	0.42
2:D:3034:ASP:O	2:D:3084:GLY:HA3	2.20	0.42
2:D:3132:CYS:SG	2:D:3248:ARG:NH2	2.93	0.42
2:D:3140:PRO:HB2	2:D:3145:ASN:ND2	2.35	0.42
2:D:3344:SER:HB3	2:D:3348:MET:HB3	1.98	0.42
1:A:73:VAL:CG2	1:A:74:VAL:N	2.83	0.42
1:A:159:VAL:CG2	1:A:160:LEU:N	2.82	0.42
1:A:241:LEU:CD1	1:A:265:ALA:N	2.82	0.42
1:A:257:LEU:CD1	1:A:261:HIS:CE1	3.03	0.42
1:A:305:ALA:HB2	1:A:362:LEU:HD21	2.02	0.42
1:A:312:PHE:CD1	1:A:351:LYS:CD	2.99	0.42
1:A:402:VAL:O	1:A:402:VAL:HG13	2.19	0.42
1:A:426:LYS:HD2	1:A:509:ILE:HD13	2.02	0.42
1:A:433:ARG:C	1:A:436:VAL:HG12	2.45	0.42
1:A:481:VAL:CB	1:A:486:ILE:CG2	2.97	0.42
1:A:676:LEU:HA	1:A:676:LEU:HD13	1.84	0.42
1:A:1075:THR:CG2	1:A:1076:SER:N	2.82	0.42
1:A:1110:THR:CG2	1:A:1111:ASN:N	2.81	0.42
1:A:1216:VAL:HG23	1:A:1216:VAL:O	2.19	0.42
1:A:1308:CYS:HB3	1:A:1492:PRO:HD3	2.01	0.42
1:A:1327:VAL:HG23	1:A:1328:GLU:N	2.34	0.42
1:A:1542:GLU:CA	1:A:1545:ARG:HD3	2.47	0.42
2:B:1958:ARG:CZ	2:B:1962:HIS:NE2	2.83	0.42
2:B:1963:ILE:CG2	2:B:1964:VAL:N	2.83	0.42
2:B:2105:SER:CB	2:B:2164:HIS:HD2	2.32	0.42
2:B:2178:PRO:HA	2:B:2226:HIS:ND1	2.34	0.42
2:B:2729:ILE:HG22	2:B:2733:LYS:HZ1	1.83	0.42
2:B:2927:LEU:O	2:B:2931:GLN:HG3	2.18	0.42
2:B:3056:LEU:HD21	2:B:3190:VAL:CG1	2.50	0.42
2:B:3211:THR:CG2	2:B:3212:THR:N	2.82	0.42
2:B:3326:ILE:HG12	2:B:3327:MET:N	2.34	0.42
2:B:3339:MET:HE1	2:B:3389:LEU:CD1	2.47	0.42
1:C:19:LEU:HB2	1:C:85:ARG:NE	2.34	0.42
1:C:56:ALA:HB2	1:C:348:SER:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:67:HIS:HD2	1:C:267:LEU:HB3	1.84	0.42
1:C:99:THR:CG2	1:C:100:GLN:N	2.82	0.42
1:C:307:PHE:CE2	1:C:399:PRO:HG3	2.55	0.42
1:C:365:THR:CG2	1:C:366:VAL:N	2.82	0.42
1:C:451:SER:HB2	1:C:1272:SER:HA	2.00	0.42
1:C:558:THR:HA	1:C:626:ASP:OD2	2.20	0.42
1:C:583:LEU:HD12	1:C:718:MET:CE	2.47	0.42
1:C:748:LYS:HB3	1:C:797:GLU:HB2	2.01	0.42
1:C:796:PHE:HZ	1:C:820:VAL:HG21	1.85	0.42
1:C:921:TYR:HD2	1:C:923:GLY:O	2.01	0.42
1:C:1009:ILE:CG2	1:C:1010:GLN:N	2.83	0.42
1:C:1274:ARG:CG	1:C:1275:ALA:N	2.82	0.42
1:C:1280:ILE:HD11	1:C:1330:ALA:CB	2.50	0.42
1:C:1453:LEU:H	1:C:1453:LEU:CD1	2.31	0.42
1:C:1503:THR:CG2	1:C:1504:LYS:N	2.83	0.42
2:D:1721:ALA:HB2	2:D:2012:LYS:HB2	2.02	0.42
2:D:1910:LYS:O	2:D:1933:LYS:HG2	2.19	0.42
2:D:1931:PHE:HB3	2:D:1943:PHE:CZ	2.55	0.42
2:D:1955:TRP:HB2	2:D:1960:ILE:HD13	2.02	0.42
2:D:1958:ARG:CZ	2:D:1962:HIS:NE2	2.83	0.42
2:D:2401:PHE:CG	2:D:2402:GLN:N	2.86	0.42
2:D:3031:THR:HG21	2:D:3099:ASP:CB	2.50	0.42
2:D:3054:LEU:H	2:D:3054:LEU:CD2	2.33	0.42
1:A:11:LEU:HD11	1:A:90:PRO:HG3	1.99	0.42
1:A:42:HIS:CD2	1:A:206:PHE:CZ	3.07	0.42
1:A:122:TYR:H	1:A:122:TYR:HD1	1.62	0.42
1:A:194:MET:SD	1:A:205:ILE:CD1	3.07	0.42
1:A:426:LYS:HB3	1:A:430:ASP:OD1	2.19	0.42
1:A:494:PHE:HE2	1:A:630:TYR:CE1	2.38	0.42
1:A:857:LEU:HD12	1:A:860:LEU:HD22	2.01	0.42
1:A:891:PHE:HB2	1:A:1183:MET:HE3	1.99	0.42
1:A:1009:ILE:CG2	1:A:1010:GLN:N	2.83	0.42
1:A:1059:LEU:HD21	1:A:1130:ASN:HB2	2.02	0.42
1:A:1090:ILE:CG2	1:A:1091:ASN:N	2.82	0.42
1:A:1153:LYS:HD2	1:A:1153:LYS:N	2.35	0.42
1:A:1350:GLU:HA	1:A:1396:HIS:CE1	2.54	0.42
1:A:1621:ASP:OD1	1:A:1621:ASP:N	2.51	0.42
2:B:1707:LEU:HD23	2:B:1709:PRO:HD3	0.51	0.42
2:B:1770:LEU:HD22	2:B:1873:LEU:HD12	2.00	0.42
2:B:1815:SER:HB2	2:B:1820:HIS:O	2.20	0.42
2:B:1852:THR:CG2	2:B:1853:TRP:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1865:LEU:HD22	2:B:2013:GLU:CD	2.44	0.42
2:B:2091:LEU:HD22	2:B:2095:ASP:CG	2.44	0.42
2:B:2268:GLY:HA3	2:B:2276:SER:HB3	2.01	0.42
2:B:2336:ASN:ND2	2:B:2338:PHE:CE2	2.86	0.42
2:B:2406:THR:CG2	2:B:2407:SER:N	2.83	0.42
2:B:2864:PHE:HE1	2:B:2886:VAL:CG2	2.33	0.42
2:B:2912:ILE:HG23	2:B:2996:TYR:O	2.20	0.42
2:B:2942:ILE:HD12	2:B:2942:ILE:HA	1.86	0.42
2:B:3020:PHE:CE2	2:B:3021:LYS:CD	3.02	0.42
2:B:3204:PHE:CB	2:B:3206:LEU:CD2	2.94	0.42
2:B:3353:VAL:HG12	2:B:3377:THR:CG2	2.47	0.42
1:C:32:SER:CB	1:C:37:LYS:HG3	2.50	0.42
1:C:468:CYS:CB	1:C:477:TYR:CE1	3.02	0.42
1:C:495:VAL:CG1	1:C:496:THR:N	2.83	0.42
1:C:514:TRP:CZ3	1:C:628:LEU:CD1	3.03	0.42
1:C:605:ILE:CG1	1:C:632:HIS:CE1	3.02	0.42
1:C:805:VAL:CG1	1:C:806:ASP:N	2.83	0.42
1:C:921:TYR:CD2	1:C:923:GLY:O	2.73	0.42
1:C:930:TRP:CD2	1:C:1018:ILE:HG12	2.55	0.42
1:C:1146:PHE:N	1:C:1190:VAL:CG1	2.83	0.42
2:D:1759:TRP:CD2	2:D:1850:VAL:HG11	2.55	0.42
2:D:1815:SER:HB2	2:D:1820:HIS:O	2.20	0.42
2:D:1931:PHE:CB	2:D:1943:PHE:CZ	3.02	0.42
2:D:2805:LYS:CG	2:D:2806:SER:N	2.82	0.42
2:D:2906:ILE:HG22	2:D:2907:LEU:N	2.34	0.42
2:D:3367:TYR:CD2	2:D:3367:TYR:C	2.98	0.42
1:A:32:SER:CB	1:A:37:LYS:HG3	2.50	0.42
1:A:97:PRO:CG	1:A:153:THR:HG21	2.49	0.42
1:A:250:TRP:CZ3	1:A:252:ASP:CB	2.98	0.42
1:A:316:ALA:O	1:A:343:VAL:HG22	2.20	0.42
1:A:494:PHE:CE2	1:A:630:TYR:CE1	3.07	0.42
1:A:625:PHE:O	1:A:627:PRO:HD3	2.20	0.42
1:A:723:GLN:HG3	1:A:826:ARG:NH2	2.30	0.42
1:A:900:VAL:CG1	1:A:1081:LEU:CD1	2.95	0.42
1:A:1095:VAL:CG1	1:A:1099:HIS:CE1	3.02	0.42
1:A:1146:PHE:N	1:A:1190:VAL:CG1	2.83	0.42
1:A:1195:ILE:HG23	1:A:1196:THR:N	2.33	0.42
1:A:1275:ALA:HA	1:A:1278:LEU:HD23	2.02	0.42
1:A:1313:MET:CE	1:A:1595:MET:CE	2.98	0.42
1:A:1319:TRP:HE3	1:A:1320:HIS:HA	1.85	0.42
2:B:1701:ILE:HA	2:B:1704:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1757:TRP:HE1	2:B:1763:ARG:CZ	2.33	0.42
2:B:1993:CYS:HA	2:B:1999:CYS:HA	2.01	0.42
2:B:2140:ILE:O	2:B:2146:PHE:HD2	2.03	0.42
2:B:2286:ILE:CG2	2:B:2287:PHE:N	2.83	0.42
2:B:2289:ILE:N	2:B:2289:ILE:CD1	2.83	0.42
2:B:2339:THR:CG2	2:B:2340:LYS:N	2.82	0.42
2:B:2401:PHE:CG	2:B:2402:GLN:N	2.86	0.42
2:B:2856:LEU:HD13	2:B:2862:PHE:CB	2.49	0.42
2:B:2910:LYS:HG2	2:B:3175:ASP:HB3	2.02	0.42
2:B:2963:CYS:HG	2:B:3093:LEU:HD11	1.85	0.42
2:B:3200:VAL:HG13	2:B:3254:ILE:CD1	2.50	0.42
2:B:3309:GLY:HA2	2:B:3339:MET:CE	2.49	0.42
2:B:3340:LEU:CG	2:B:3341:ASN:N	2.82	0.42
1:C:160:LEU:HD23	1:C:297:ARG:CZ	2.49	0.42
1:C:229:LYS:HG2	1:C:230:ASP:N	2.34	0.42
1:C:240:LEU:HD22	1:C:240:LEU:N	2.35	0.42
1:C:508:THR:CG2	1:C:509:ILE:N	2.83	0.42
1:C:615:PHE:HD1	1:C:622:TYR:CZ	2.36	0.42
1:C:710:ILE:HG21	1:C:715:ILE:CA	2.49	0.42
1:C:891:PHE:CG	1:C:1183:MET:HG2	2.54	0.42
1:C:901:PHE:HB3	1:C:902:PRO:CD	2.44	0.42
1:C:953:VAL:O	1:C:953:VAL:HG13	2.19	0.42
1:C:957:ASN:HB2	1:C:960:PHE:HB2	2.01	0.42
1:C:994:GLN:HA	1:C:994:GLN:HE21	1.84	0.42
1:C:1142:PHE:CZ	1:C:1234:VAL:CG2	3.02	0.42
1:C:1158:LYS:HG3	1:C:1173:GLU:CG	2.49	0.42
1:C:1254:SER:N	1:C:1522:ALA:HB2	2.35	0.42
1:C:1258:ILE:HG22	1:C:1259:ARG:N	2.35	0.42
1:C:1280:ILE:CG2	1:C:1281:GLU:N	2.83	0.42
1:C:1313:MET:CE	1:C:1595:MET:CE	2.98	0.42
1:C:1485:LEU:H	1:C:1485:LEU:CD1	2.33	0.42
1:C:1554:LEU:CD1	1:C:1602:LEU:CD2	2.97	0.42
1:C:1554:LEU:CD1	1:C:1602:LEU:HD22	2.50	0.42
2:D:2085:ARG:HG2	2:D:2169:ALA:HB1	2.02	0.42
2:D:2294:VAL:CG1	2:D:2295:ASP:N	2.83	0.42
2:D:2339:THR:CG2	2:D:2340:LYS:N	2.82	0.42
2:D:2401:PHE:CZ	2:D:2460:ILE:HG12	2.53	0.42
2:D:2416:ILE:CG2	2:D:2417:PHE:N	2.82	0.42
2:D:3020:PHE:CE2	2:D:3021:LYS:CD	3.02	0.42
2:D:3090:MET:O	2:D:3090:MET:HG2	2.20	0.42
1:A:99:THR:CG2	1:A:100:GLN:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:ASN:O	1:A:200:THR:HB	2.19	0.42
1:A:452:VAL:CG2	1:A:453:ASP:N	2.82	0.42
1:A:462:HIS:CE1	1:A:623:THR:CG2	3.03	0.42
1:A:469:PRO:HB2	1:A:473:ALA:CB	2.50	0.42
1:A:558:THR:HA	1:A:626:ASP:OD2	2.20	0.42
1:A:605:ILE:CG1	1:A:632:HIS:CE1	3.02	0.42
1:A:734:LEU:N	1:A:734:LEU:CD1	2.83	0.42
1:A:894:CYS:SG	1:A:896:HIS:NE2	2.89	0.42
1:A:910:VAL:HG21	1:A:1112:PHE:CE2	2.54	0.42
1:A:972:THR:CG2	1:A:973:ARG:N	2.82	0.42
1:A:1252:VAL:HG23	1:A:1253:THR:N	2.34	0.42
1:A:1265:LEU:CB	1:A:1270:LEU:HD21	2.46	0.42
1:A:1427:LEU:CB	1:A:1454:HIS:CE1	3.03	0.42
1:A:1560:THR:CG2	1:A:1561:SER:N	2.81	0.42
1:A:1661:HIS:CE1	1:A:1663:GLU:HG2	2.54	0.42
2:B:1769:LEU:C	2:B:1769:LEU:CD2	2.93	0.42
2:B:2106:LEU:HD21	2:B:2161:LEU:HA	2.02	0.42
2:B:2168:VAL:CG2	2:B:2169:ALA:N	2.82	0.42
2:B:2258:VAL:CG1	2:B:2259:MET:N	2.83	0.42
2:B:2388:PHE:N	2:B:2432:LEU:CD1	2.82	0.42
2:B:2566:PHE:CD1	2:B:2566:PHE:C	2.96	0.42
2:B:2659:PHE:HD1	2:B:2711:TRP:CZ3	2.38	0.42
2:B:2812:ASP:HB2	2:B:2821:HIS:O	2.19	0.42
2:B:3109:LEU:HD23	2:B:3112:ILE:HD12	2.01	0.42
2:B:3327:MET:CG	2:B:3328:PHE:N	2.82	0.42
2:B:3388:ASN:OD1	2:B:3390:ARG:CD	2.68	0.42
1:C:70:ARG:HD3	1:C:267:LEU:CD1	2.40	0.42
1:C:135:THR:HG21	1:C:203:ASP:OD1	2.20	0.42
1:C:160:LEU:CD2	1:C:293:TYR:HE2	2.32	0.42
1:C:318:VAL:HG22	1:C:319:PHE:N	2.34	0.42
1:C:646:LEU:C	1:C:646:LEU:CD2	2.93	0.42
1:C:697:VAL:CG2	1:C:698:LEU:N	2.82	0.42
1:C:989:THR:CG2	1:C:990:SER:N	2.82	0.42
1:C:1115:GLU:HG3	1:C:1116:TYR:H	1.85	0.42
1:C:1136:ILE:CG2	1:C:1137:LYS:N	2.82	0.42
1:C:1265:LEU:HD22	1:C:1265:LEU:H	1.85	0.42
1:C:1319:TRP:CD1	1:C:1490:LEU:CG	3.03	0.42
1:C:1324:VAL:CG1	1:C:1325:VAL:N	2.83	0.42
1:C:1575:HIS:CB	2:D:2783:HIS:HB2	2.49	0.42
2:D:1714:PRO:HG2	2:D:1922:TYR:CD2	2.35	0.42
2:D:1850:VAL:CG2	2:D:1851:HIS:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1852:THR:CG2	2:D:1853:TRP:N	2.83	0.42
2:D:2103:LEU:HD22	2:D:2106:LEU:HD12	2.02	0.42
2:D:2462:VAL:CG2	2:D:2463:SER:N	2.83	0.42
2:D:2542:HIS:HB2	2:D:2692:THR:HB	2.02	0.42
2:D:2645:PHE:O	2:D:2648:ARG:HG2	2.19	0.42
2:D:2760:GLU:HG2	2:D:2763:ARG:HG3	2.01	0.42
2:D:2813:VAL:HG23	2:D:2823:ALA:HB2	2.01	0.42
2:D:2999:TRP:HH2	2:D:3074:LEU:CD1	2.32	0.42
2:D:3195:ARG:NH1	2:D:3295:ARG:HE	2.12	0.42
2:D:3264:THR:HG22	2:D:3265:ASP:N	2.35	0.42
2:D:3340:LEU:CB	2:D:3377:THR:CG2	2.93	0.42
1:A:122:TYR:CD1	1:A:122:TYR:N	2.82	0.42
1:A:495:VAL:CG1	1:A:496:THR:N	2.83	0.42
1:A:516:TRP:CD1	1:A:605:ILE:HD12	2.54	0.42
1:A:530:LYS:HA	1:A:545:HIS:CD2	2.55	0.42
1:A:552:GLU:HB2	1:A:554:ASN:OD1	2.20	0.42
1:A:604:THR:CG2	1:A:605:ILE:N	2.83	0.42
1:A:747:ILE:HD13	1:A:785:LEU:HD21	2.02	0.42
1:A:1115:GLU:HG3	1:A:1116:TYR:H	1.85	0.42
1:A:1254:SER:N	1:A:1522:ALA:HB2	2.35	0.42
1:A:1380:THR:HG23	1:A:1381:HIS:H	1.84	0.42
1:A:1403:GLN:HE22	1:A:1605:LEU:HD21	1.79	0.42
2:B:1770:LEU:HD22	2:B:1873:LEU:CD1	2.50	0.42
2:B:1881:THR:O	2:B:1884:ILE:HG12	2.20	0.42
2:B:1924:LEU:N	2:B:1924:LEU:CD2	2.83	0.42
2:B:2132:HIS:HE2	2:B:2134:ASN:HB2	1.82	0.42
2:B:2258:VAL:CG2	2:B:2416:ILE:CG2	2.94	0.42
2:B:2289:ILE:H	2:B:2289:ILE:CD1	2.33	0.42
2:B:2427:TRP:HZ3	2:B:2429:TYR:CD2	2.38	0.42
2:B:2931:GLN:HA	2:B:2939:TYR:HB3	2.02	0.42
2:B:2946:HIS:CD2	2:B:2963:CYS:HG	2.35	0.42
2:B:2965:HIS:CE1	2:B:3093:LEU:CD1	3.03	0.42
2:B:3042:GLN:HG3	2:B:3043:THR:N	2.35	0.42
2:B:3217:VAL:HG11	2:B:3252:PHE:CE2	2.55	0.42
2:B:3248:ARG:CZ	2:B:3320:VAL:CG2	2.94	0.42
1:C:213:VAL:CG2	1:C:214:ASP:N	2.83	0.42
1:C:226:LEU:CD2	1:C:291:LYS:CE	2.95	0.42
1:C:234:MET:CE	1:C:241:LEU:CD2	2.95	0.42
1:C:257:LEU:CD1	1:C:261:HIS:CE1	3.03	0.42
1:C:316:ALA:O	1:C:343:VAL:HG22	2.20	0.42
1:C:402:VAL:O	1:C:402:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:426:LYS:O	1:C:512:PRO:HA	2.20	0.42
1:C:486:ILE:CG2	1:C:487:PHE:N	2.82	0.42
1:C:853:LEU:N	1:C:921:TYR:CD1	2.88	0.42
1:C:857:LEU:HD12	1:C:860:LEU:HD22	2.01	0.42
1:C:984:GLU:C	1:C:985:PHE:CD1	2.97	0.42
1:C:984:GLU:CG	1:C:985:PHE:N	2.82	0.42
1:C:1286:TYR:HA	1:C:1289:ILE:HG12	2.02	0.42
2:D:1679:GLN:O	2:D:1683:VAL:HG12	2.20	0.42
2:D:1734:HIS:CD2	2:D:1878:HIS:CD2	3.08	0.42
2:D:1804:ARG:NH1	2:D:1873:LEU:HD22	2.35	0.42
2:D:1993:CYS:HA	2:D:1999:CYS:HA	2.01	0.42
2:D:2144:PRO:CG	2:D:2318:ALA:HB2	2.31	0.42
2:D:2230:THR:HB	2:D:2233:HIS:H	1.85	0.42
2:D:2289:ILE:N	2:D:2289:ILE:CD1	2.83	0.42
2:D:2467:VAL:CG1	2:D:2468:ASN:N	2.82	0.42
2:D:2560:THR:HB	2:D:2563:MET:CE	2.46	0.42
2:D:2723:ASP:O	2:D:2759:PHE:CG	2.73	0.42
2:D:2886:VAL:HG12	2:D:2887:GLU:N	2.35	0.42
2:D:3029:GLN:NE2	2:D:3088:TYR:HB3	2.35	0.42
2:D:3076:ASN:HB3	2:D:3236:LEU:HD13	1.98	0.42
2:D:3217:VAL:HG23	2:D:3273:ASP:OD1	2.20	0.42
2:D:3279:HIS:HD2	2:D:3280:THR:HG23	1.80	0.42
2:D:3287:LEU:CB	2:D:3288:PRO:CA	2.97	0.42
2:D:3349:PHE:CG	2:D:3375:PHE:CE1	3.08	0.42
1:A:5:ARG:NH1	1:A:89:LEU:CD1	2.76	0.41
1:A:279:THR:C	1:A:280:LEU:HD22	2.44	0.41
1:A:307:PHE:CE2	1:A:399:PRO:HG3	2.55	0.41
1:A:365:THR:CG2	1:A:366:VAL:N	2.82	0.41
1:A:443:PHE:HD2	1:A:505:ARG:HH12	1.66	0.41
1:A:490:TRP:CA	1:A:667:LEU:HD13	2.49	0.41
1:A:503:VAL:CG2	1:A:504:GLY:N	2.83	0.41
1:A:805:VAL:CG1	1:A:806:ASP:N	2.83	0.41
1:A:921:TYR:CD2	1:A:923:GLY:O	2.73	0.41
1:A:1121:PHE:CE2	1:A:1122:ASN:ND2	2.88	0.41
1:A:1124:LEU:HD11	1:A:1132:LYS:HD3	2.01	0.41
1:A:1231:GLN:HA	1:A:1231:GLN:HE21	1.83	0.41
1:A:1286:TYR:HA	1:A:1289:ILE:HG12	2.02	0.41
1:A:1365:ARG:H	1:A:1365:ARG:CD	2.22	0.41
1:A:1430:LEU:N	1:A:1430:LEU:CD1	2.83	0.41
1:A:1549:VAL:CG1	1:A:1611:LEU:HD12	2.37	0.41
2:B:1809:ASP:O	2:B:1812:PHE:CD2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1909:MET:SD	2:B:1934:PRO:HB2	2.60	0.41
2:B:1946:ILE:CG1	2:B:1947:TYR:N	2.83	0.41
2:B:2115:PHE:CE1	2:B:2157:PHE:HE2	2.38	0.41
2:B:2559:CYS:CB	2:B:2561:HIS:CE1	3.03	0.41
2:B:2570:HIS:HD2	2:B:2701:HIS:CD2	2.38	0.41
2:B:3217:VAL:HG23	2:B:3273:ASP:OD1	2.20	0.41
2:B:3347:ALA:CB	2:D:3315:PRO:HG3	2.40	0.41
1:C:412:PRO:HG2	1:C:654:TYR:CB	2.45	0.41
1:C:469:PRO:HB2	1:C:473:ALA:CB	2.50	0.41
1:C:547:SER:N	1:C:558:THR:HG21	2.35	0.41
1:C:745:ILE:CG2	1:C:757:ALA:HB3	2.34	0.41
1:C:1112:PHE:CB	1:C:1114:TYR:CD2	3.03	0.41
1:C:1190:VAL:CG1	1:C:1191:PHE:N	2.82	0.41
1:C:1275:ALA:HA	1:C:1278:LEU:HD23	2.02	0.41
1:C:1300:GLN:HE22	1:C:1306:ILE:N	2.18	0.41
1:C:1464:ILE:CD1	1:C:1526:LEU:CB	2.98	0.41
1:C:1657:THR:HA	2:D:1901:GLU:OE2	2.19	0.41
2:D:1672:THR:CG2	2:D:1673:GLN:N	2.83	0.41
2:D:1757:TRP:CZ2	2:D:1763:ARG:CZ	3.02	0.41
2:D:1789:ILE:CG2	2:D:1790:GLY:N	2.82	0.41
2:D:1816:THR:CG2	2:D:1817:LYS:N	2.83	0.41
2:D:1874:PHE:CG	2:D:1878:HIS:CE1	3.08	0.41
2:D:2106:LEU:HD21	2:D:2161:LEU:HA	2.02	0.41
2:D:2115:PHE:CE1	2:D:2157:PHE:HE2	2.38	0.41
2:D:2141:HIS:CE1	2:D:2278:LEU:CD1	3.03	0.41
2:D:2220:VAL:CG1	2:D:2221:GLN:N	2.82	0.41
2:D:2268:GLY:HA2	2:D:2274:SER:HB2	2.01	0.41
2:D:2338:PHE:CD1	2:D:2338:PHE:C	2.97	0.41
2:D:2542:HIS:CE1	2:D:2691:THR:CG2	3.03	0.41
2:D:2633:LYS:HA	2:D:2633:LYS:NZ	2.32	0.41
2:D:2659:PHE:HD1	2:D:2711:TRP:CZ3	2.38	0.41
2:D:2717:TYR:HE1	2:D:2779:LYS:HZ2	1.61	0.41
2:D:2734:ARG:O	2:D:2755:PRO:HD2	2.20	0.41
2:D:2854:MET:O	2:D:2855:HIS:HB2	2.20	0.41
2:D:2931:GLN:HA	2:D:2939:TYR:HB3	2.02	0.41
2:D:3340:LEU:CG	2:D:3341:ASN:N	2.82	0.41
2:D:3375:PHE:CE1	2:D:3390:ARG:O	2.73	0.41
1:A:18:ASP:OD1	1:A:85:ARG:HA	2.20	0.41
1:A:33:ILE:O	1:A:38:ILE:HD11	2.19	0.41
1:A:94:TRP:HD1	1:A:155:LEU:CD2	2.16	0.41
1:A:194:MET:HA	1:A:200:THR:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:LYS:O	1:A:512:PRO:HA	2.20	0.41
1:A:435:GLU:HA	1:A:438:ASN:OD1	2.19	0.41
1:A:516:TRP:CD1	1:A:605:ILE:CD1	3.03	0.41
1:A:598:PHE:HZ	1:A:636:VAL:HG13	1.82	0.41
1:A:620:LEU:C	1:A:620:LEU:CD2	2.93	0.41
1:A:644:GLN:NE2	1:A:694:TYR:HE1	2.18	0.41
1:A:930:TRP:CD2	1:A:1018:ILE:HG12	2.55	0.41
1:A:999:LEU:HD13	1:A:1129:LEU:CD2	2.45	0.41
1:A:1169:HIS:HB2	1:A:1202:LEU:HD21	2.02	0.41
1:A:1216:VAL:HG23	1:A:1224:LEU:CB	2.45	0.41
1:A:1228:LEU:N	1:A:1228:LEU:CD2	2.82	0.41
1:A:1300:GLN:HE22	1:A:1306:ILE:N	2.18	0.41
1:A:1362:TYR:HE2	1:A:1364:SER:CB	2.33	0.41
2:B:1721:ALA:HB2	2:B:2012:LYS:HB2	2.02	0.41
2:B:1924:LEU:HB3	2:D:2094:ARG:CD	2.50	0.41
2:B:1964:VAL:CG2	2:B:1965:ARG:N	2.83	0.41
2:B:2607:THR:CG2	2:B:2608:ASP:N	2.83	0.41
2:B:2627:THR:CG2	2:B:2681:THR:CG2	2.94	0.41
2:B:2688:LEU:HA	2:B:2829:LEU:HD11	2.02	0.41
2:B:2723:ASP:O	2:B:2759:PHE:CG	2.73	0.41
2:B:2743:ILE:CG2	2:B:2744:ASN:N	2.82	0.41
2:B:2939:TYR:HE1	2:B:2981:PHE:CE1	2.36	0.41
2:B:3031:THR:HG21	2:B:3099:ASP:CB	2.50	0.41
2:B:3128:HIS:CD2	2:B:3129:ALA:H	2.38	0.41
2:B:3346:THR:CA	2:B:3349:PHE:CD2	2.94	0.41
1:C:110:TYR:CD1	1:C:110:TYR:C	2.97	0.41
1:C:426:LYS:HB3	1:C:430:ASP:OD1	2.19	0.41
1:C:433:ARG:CA	1:C:436:VAL:HG12	2.50	0.41
1:C:645:ALA:HB1	1:C:712:LEU:HD13	2.01	0.41
1:C:717:LYS:HZ1	1:C:831:LYS:HE3	1.84	0.41
1:C:788:LEU:CB	1:C:790:LEU:HG	2.44	0.41
1:C:953:VAL:O	1:C:955:LYS:HE2	2.20	0.41
1:C:1075:THR:CG2	1:C:1076:SER:N	2.82	0.41
1:C:1121:PHE:CE2	1:C:1122:ASN:ND2	2.88	0.41
1:C:1228:LEU:N	1:C:1228:LEU:CD2	2.82	0.41
1:C:1249:GLN:CD	1:C:1476:TYR:CD1	2.98	0.41
1:C:1277:PHE:CD2	1:C:1373:PRO:CB	3.02	0.41
1:C:1283:ASP:OD2	1:C:1334:LYS:HD2	2.20	0.41
1:C:1464:ILE:HD13	1:C:1526:LEU:HD22	2.02	0.41
1:C:1555:LEU:HD22	1:C:1555:LEU:N	2.34	0.41
2:D:1769:LEU:CD2	2:D:1769:LEU:C	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1909:MET:SD	2:D:1934:PRO:HB2	2.60	0.41
2:D:2268:GLY:HA3	2:D:2276:SER:HB3	2.01	0.41
2:D:2287:PHE:CD1	2:D:2287:PHE:C	2.98	0.41
2:D:2406:THR:CG2	2:D:2407:SER:N	2.83	0.41
2:D:2504:VAL:HG12	2:D:2506:LYS:HG3	2.01	0.41
2:D:2793:ARG:O	2:D:2889:SER:N	2.52	0.41
2:D:2946:HIS:CE1	2:D:3093:LEU:CD1	3.03	0.41
2:D:2996:TYR:CE1	2:D:3175:ASP:OD1	2.73	0.41
2:D:3074:LEU:HD13	2:D:3074:LEU:O	2.20	0.41
2:D:3339:MET:HE1	2:D:3389:LEU:CD1	2.47	0.41
1:A:73:VAL:HB	1:A:89:LEU:HD13	2.02	0.41
1:A:159:VAL:HG21	1:A:282:LEU:HD21	2.01	0.41
1:A:498:VAL:CB	1:A:630:TYR:CE1	2.99	0.41
1:A:511:ILE:HA	1:A:512:PRO:HD2	1.82	0.41
1:A:909:THR:CG2	1:A:910:VAL:N	2.83	0.41
1:A:1228:LEU:CD2	1:A:1229:PHE:N	2.83	0.41
1:A:1283:ASP:OD2	1:A:1334:LYS:HD2	2.20	0.41
1:A:1380:THR:CG2	1:A:1381:HIS:N	2.82	0.41
1:A:1464:ILE:HD13	1:A:1526:LEU:HD22	2.02	0.41
2:B:1679:GLN:O	2:B:1683:VAL:HG12	2.20	0.41
2:B:1680:LEU:C	2:B:1680:LEU:CD1	2.93	0.41
2:B:1833:GLN:HG2	2:B:1838:ASP:HB3	2.02	0.41
2:B:1840:GLU:CD	2:B:1840:GLU:C	2.89	0.41
2:B:2150:HIS:CD2	2:B:2291:HIS:NE2	2.88	0.41
2:B:2194:VAL:CA	2:D:1921:PRO:HB3	2.44	0.41
2:B:2217:VAL:CG1	2:B:2218:ARG:N	2.82	0.41
2:B:2220:VAL:CG1	2:B:2221:GLN:N	2.82	0.41
2:B:2307:LYS:NZ	2:B:2372:GLU:HB3	2.35	0.41
2:B:2542:HIS:CE1	2:B:2691:THR:CG2	3.03	0.41
2:B:2688:LEU:CD1	2:B:2829:LEU:HD11	2.49	0.41
2:B:2700:HIS:O	2:B:2704:THR:HG23	2.20	0.41
2:B:2854:MET:HB2	2:B:2856:LEU:HG	2.02	0.41
1:C:86:THR:CG2	1:C:87:SER:N	2.82	0.41
1:C:435:GLU:HA	1:C:438:ASN:OD1	2.19	0.41
1:C:485:PRO:HA	1:C:595:GLU:HG3	2.03	0.41
1:C:498:VAL:CG1	1:C:499:GLU:N	2.83	0.41
1:C:503:VAL:CG2	1:C:504:GLY:N	2.83	0.41
1:C:517:THR:O	1:C:576:THR:HG21	2.20	0.41
1:C:546:SER:HA	1:C:558:THR:CB	2.50	0.41
1:C:566:LEU:HD13	1:C:566:LEU:HA	1.92	0.41
1:C:589:GLU:O	1:C:652:LYS:HE3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:592:CYS:HB2	1:C:775:ARG:HH12	1.85	0.41
1:C:644:GLN:NE2	1:C:694:TYR:HE1	2.18	0.41
1:C:875:PHE:CD2	1:C:1083:PRO:HG2	2.56	0.41
1:C:1216:VAL:HG13	1:C:1226:LYS:CE	2.50	0.41
1:C:1350:GLU:HA	1:C:1396:HIS:CE1	2.54	0.41
1:C:1427:LEU:CB	1:C:1454:HIS:CE1	3.03	0.41
1:C:1516:GLN:C	1:C:1518:SER:H	2.27	0.41
2:D:1732:GLN:O	2:D:1736:LEU:HD13	2.20	0.41
2:D:1840:GLU:C	2:D:1840:GLU:CD	2.88	0.41
2:D:1881:THR:O	2:D:1884:ILE:HG12	2.20	0.41
2:D:1963:ILE:CG2	2:D:1964:VAL:N	2.83	0.41
2:D:2000:GLU:CG	2:D:2033:MET:SD	3.08	0.41
2:D:2030:LEU:HD12	2:D:2030:LEU:N	2.35	0.41
2:D:2141:HIS:CE1	2:D:2278:LEU:HD11	2.55	0.41
2:D:2307:LYS:NZ	2:D:2372:GLU:HB3	2.35	0.41
2:D:2607:THR:CG2	2:D:2608:ASP:N	2.83	0.41
2:D:2700:HIS:O	2:D:2704:THR:HG23	2.20	0.41
2:D:3045:PHE:CD2	2:D:3045:PHE:O	2.74	0.41
2:D:3128:HIS:CD2	2:D:3129:ALA:H	2.38	0.41
2:D:3274:LEU:HD12	2:D:3276:LYS:HE3	2.01	0.41
1:A:86:THR:CG2	1:A:87:SER:N	2.82	0.41
1:A:97:PRO:HB2	1:A:146:LYS:HA	2.02	0.41
1:A:443:PHE:CD1	1:A:543:PRO:CB	3.03	0.41
1:A:492:ARG:O	1:A:496:THR:HG23	2.19	0.41
1:A:517:THR:O	1:A:576:THR:HG21	2.20	0.41
1:A:566:LEU:HD22	1:A:566:LEU:H	1.85	0.41
1:A:687:MET:HB3	1:A:689:ASN:OD1	2.21	0.41
1:A:717:LYS:HZ1	1:A:831:LYS:HE3	1.85	0.41
1:A:946:TYR:N	1:A:957:ASN:HD21	2.18	0.41
1:A:984:GLU:CG	1:A:985:PHE:N	2.83	0.41
1:A:1018:ILE:CG1	1:A:1045:HIS:CE1	3.03	0.41
1:A:1158:LYS:HG3	1:A:1173:GLU:CG	2.49	0.41
1:A:1261:ASN:HD22	1:A:1263:GLU:HB2	1.86	0.41
1:A:1457:THR:CG2	1:A:1458:THR:N	2.83	0.41
2:B:1734:HIS:CD2	2:B:1878:HIS:CD2	3.08	0.41
2:B:1811:LEU:HG	2:B:1853:TRP:CE3	2.52	0.41
2:B:1850:VAL:HG21	2:B:1877:HIS:NE2	2.34	0.41
2:B:2030:LEU:HD12	2:B:2030:LEU:N	2.35	0.41
2:B:2030:LEU:O	2:B:2033:MET:HB2	2.21	0.41
2:B:2127:LYS:CE	2:B:2333:ILE:CD1	2.95	0.41
2:B:2155:LEU:HD11	2:B:2356:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2230:THR:HB	2:B:2233:HIS:H	1.85	0.41
2:B:2287:PHE:CD1	2:B:2287:PHE:C	2.98	0.41
2:B:2401:PHE:HD2	2:B:2413:GLY:CA	2.22	0.41
2:B:2915:LEU:HD23	2:B:2915:LEU:HA	1.90	0.41
2:B:2946:HIS:CE1	2:B:3093:LEU:CD1	3.03	0.41
2:B:3045:PHE:CD2	2:B:3045:PHE:O	2.74	0.41
1:C:156:MET:CE	1:C:285:MET:CE	2.95	0.41
1:C:159:VAL:HG21	1:C:282:LEU:HD21	2.01	0.41
1:C:234:MET:HE2	1:C:241:LEU:HG	2.02	0.41
1:C:270:TYR:CA	1:C:273:LEU:HD13	2.48	0.41
1:C:526:LEU:CD2	1:C:544:PHE:CD2	3.04	0.41
1:C:728:ILE:HG12	1:C:822:ARG:HG3	2.02	0.41
1:C:895:VAL:O	1:C:901:PHE:CD2	2.74	0.41
1:C:912:SER:CB	1:C:1043:TYR:CE1	3.00	0.41
1:C:946:TYR:N	1:C:957:ASN:HD21	2.18	0.41
1:C:992:ALA:HA	1:C:995:VAL:HG22	2.01	0.41
1:C:1195:ILE:HG23	1:C:1196:THR:N	2.33	0.41
1:C:1262:ILE:HD11	1:C:1353:PRO:HB3	2.03	0.41
1:C:1362:TYR:HE2	1:C:1364:SER:CB	2.33	0.41
1:C:1457:THR:CG2	1:C:1458:THR:N	2.83	0.41
1:C:1613:LYS:O	2:D:2779:LYS:CE	2.55	0.41
2:D:1690:LYS:NZ	2:D:1690:LYS:HB3	2.36	0.41
2:D:1721:ALA:HB2	2:D:2012:LYS:HB3	2.02	0.41
2:D:1741:PHE:CE2	2:D:1875:TYR:CE1	3.08	0.41
2:D:1809:ASP:O	2:D:1812:PHE:CD2	2.73	0.41
2:D:1914:LYS:CG	2:D:1918:PHE:CE1	2.95	0.41
2:D:2045:VAL:CG1	2:D:2046:THR:N	2.83	0.41
2:D:2308:ARG:HH21	2:D:2375:ILE:HD12	1.83	0.41
2:D:2973:TRP:HE3	2:D:2974:HIS:HD2	1.66	0.41
1:A:19:LEU:HB2	1:A:85:ARG:NE	2.34	0.41
1:A:219:ILE:O	1:A:223:LEU:HD23	2.20	0.41
1:A:498:VAL:CG1	1:A:499:GLU:N	2.83	0.41
1:A:566:LEU:N	1:A:566:LEU:CD2	2.83	0.41
1:A:676:LEU:HG	1:A:1365:ARG:CA	2.34	0.41
1:A:796:PHE:HZ	1:A:820:VAL:HG21	1.85	0.41
1:A:895:VAL:O	1:A:901:PHE:CD2	2.74	0.41
1:A:1136:ILE:CG2	1:A:1137:LYS:N	2.82	0.41
1:A:1262:ILE:HD11	1:A:1353:PRO:HB3	2.02	0.41
1:A:1265:LEU:HD22	1:A:1265:LEU:H	1.85	0.41
1:A:1289:ILE:HG13	1:A:1290:ALA:N	2.35	0.41
1:A:1485:LEU:H	1:A:1485:LEU:CD1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1641:ILE:O	1:A:1641:ILE:HG23	2.21	0.41
2:B:1847:HIS:ND1	2:B:1877:HIS:NE2	2.68	0.41
2:B:1943:PHE:HB2	2:B:1945:TYR:CE2	2.56	0.41
2:B:2000:GLU:CG	2:B:2033:MET:SD	3.08	0.41
2:B:2045:VAL:CG1	2:B:2046:THR:N	2.83	0.41
2:B:2085:ARG:HG2	2:B:2169:ALA:HB1	2.02	0.41
2:B:2148:HIS:HD2	2:B:2348:VAL:CG2	2.34	0.41
2:B:2258:VAL:HG21	2:B:2416:ILE:CG2	2.51	0.41
2:B:2383:ARG:NE	2:B:2385:PHE:HZ	2.17	0.41
2:B:2389:LEU:C	2:B:2389:LEU:CD2	2.94	0.41
2:B:2803:ILE:HB	2:B:2880:LEU:HD13	2.03	0.41
2:B:2970:PHE:CZ	2:B:2974:HIS:CE1	3.09	0.41
2:B:3034:ASP:O	2:B:3084:GLY:HA3	2.20	0.41
2:B:3140:PRO:HB2	2:B:3145:ASN:ND2	2.35	0.41
2:B:3208:GLY:CA	2:B:3244:TRP:CE2	3.02	0.41
2:B:3293:VAL:HG12	2:B:3305:GLU:OE2	2.21	0.41
2:B:3328:PHE:CE1	2:B:3363:LEU:O	2.74	0.41
1:C:97:PRO:CG	1:C:153:THR:HG21	2.49	0.41
1:C:197:LEU:C	1:C:197:LEU:CD1	2.94	0.41
1:C:197:LEU:CD2	1:C:344:LEU:HD12	2.40	0.41
1:C:443:PHE:CD1	1:C:543:PRO:CB	3.03	0.41
1:C:530:LYS:HA	1:C:545:HIS:CD2	2.55	0.41
1:C:578:LEU:N	1:C:578:LEU:CD2	2.84	0.41
1:C:715:ILE:CG2	1:C:716:GLU:N	2.83	0.41
1:C:991:ILE:HD11	1:C:995:VAL:CG1	2.51	0.41
1:C:1063:ARG:HG2	1:C:1065:LYS:HE2	2.03	0.41
1:C:1082:GLN:HB3	1:C:1086:LEU:HD11	2.02	0.41
1:C:1086:LEU:HD22	1:C:1090:ILE:HG21	2.02	0.41
1:C:1162:CYS:HA	1:C:1168:CYS:HA	2.02	0.41
1:C:1289:ILE:HG13	1:C:1290:ALA:N	2.35	0.41
1:C:1413:PHE:O	1:C:1416:PHE:HB3	2.21	0.41
1:C:1529:ASN:CB	1:C:1531:TYR:CE2	3.03	0.41
2:D:1741:PHE:CZ	2:D:1875:TYR:HE1	2.38	0.41
2:D:1761:LEU:HG	2:D:1762:PRO:N	2.35	0.41
2:D:1811:LEU:HG	2:D:1853:TRP:CE3	2.52	0.41
2:D:2140:ILE:HG21	2:D:2145:THR:CB	2.50	0.41
2:D:2148:HIS:HD2	2:D:2348:VAL:CG2	2.34	0.41
2:D:2150:HIS:CD2	2:D:2291:HIS:NE2	2.88	0.41
2:D:2155:LEU:HG	2:D:2354:LEU:CD1	2.48	0.41
2:D:2155:LEU:HD11	2:D:2356:TYR:CD1	2.55	0.41
2:D:2170:VAL:HG12	2:D:2171:PRO:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2244:LEU:CD1	2:D:2304:LEU:CD2	2.94	0.41
2:D:2286:ILE:CG2	2:D:2287:PHE:N	2.83	0.41
2:D:2401:PHE:CE1	2:D:2402:GLN:O	2.74	0.41
2:D:2621:TYR:HE2	2:D:2693:TYR:OH	2.04	0.41
2:D:2673:ILE:CG1	2:D:2700:HIS:CE1	3.04	0.41
2:D:2803:ILE:HB	2:D:2880:LEU:HD13	2.03	0.41
2:D:3177:LEU:CD2	2:D:3184:ILE:HG23	2.44	0.41
2:D:3200:VAL:HG13	2:D:3254:ILE:CD1	2.50	0.41
2:D:3211:THR:CG2	2:D:3212:THR:N	2.81	0.41
2:D:3342:LEU:C	2:D:3342:LEU:CD2	2.94	0.41
1:A:59:ILE:O	1:A:65:PHE:CD2	2.74	0.41
1:A:72:TYR:CE2	1:A:76:MET:CE	3.04	0.41
1:A:464:LEU:HD12	1:A:551:PHE:CE1	2.51	0.41
1:A:516:TRP:CE3	1:A:605:ILE:HG23	2.55	0.41
1:A:546:SER:HA	1:A:558:THR:CB	2.50	0.41
1:A:588:GLN:HE22	1:A:597:GLN:CG	2.33	0.41
1:A:953:VAL:O	1:A:953:VAL:HG13	2.20	0.41
1:A:984:GLU:C	1:A:985:PHE:CD1	2.97	0.41
1:A:992:ALA:HA	1:A:995:VAL:HG22	2.01	0.41
1:A:1048:ASN:O	1:A:1051:ARG:HB3	2.20	0.41
1:A:1063:ARG:HG2	1:A:1065:LYS:HE2	2.03	0.41
1:A:1112:PHE:CB	1:A:1114:TYR:CD2	3.03	0.41
1:A:1147:LEU:C	1:A:1147:LEU:CD2	2.94	0.41
1:A:1205:HIS:HD2	1:A:1207:GLU:CB	2.34	0.41
1:A:1216:VAL:HG13	1:A:1226:LYS:CE	2.51	0.41
1:A:1251:GLU:CD	1:A:1251:GLU:H	2.26	0.41
1:A:1280:ILE:HB	1:A:1334:LYS:HG3	2.02	0.41
1:A:1319:TRP:CD1	1:A:1490:LEU:CG	3.03	0.41
1:A:1422:ILE:HA	1:A:1425:ASN:HD21	1.82	0.41
1:A:1515:TYR:CA	1:A:1519:PHE:HD2	2.25	0.41
1:A:1533:ILE:HA	1:A:1536:LEU:HD23	2.03	0.41
1:A:1567:PHE:HE1	1:A:1610:ALA:CB	2.32	0.41
1:A:1589:LEU:CD1	1:A:1589:LEU:C	2.94	0.41
2:B:1672:THR:CG2	2:B:1673:GLN:N	2.83	0.41
2:B:1732:GLN:O	2:B:1736:LEU:HD13	2.20	0.41
2:B:1990:PHE:CD2	2:B:2002:ALA:CB	3.03	0.41
2:B:2083:LYS:HG2	2:B:2169:ALA:CB	2.31	0.41
2:B:2140:ILE:HG21	2:B:2145:THR:CB	2.50	0.41
2:B:2175:TRP:CD1	2:B:2236:LEU:HG	2.43	0.41
2:B:2191:TYR:CE2	2:B:2193:ASP:O	2.74	0.41
2:B:2542:HIS:HB2	2:B:2692:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2600:THR:O	2:B:2635:PHE:CE1	2.74	0.41
2:B:2673:ILE:CG1	2:B:2700:HIS:CE1	3.03	0.41
2:B:2810:SER:HB3	2:B:2822:PHE:CZ	2.54	0.41
2:B:2885:THR:CG2	2:B:2886:VAL:N	2.82	0.41
2:B:3006:LEU:H	2:B:3006:LEU:CD1	2.33	0.41
2:B:3056:LEU:CD1	2:B:3191:LEU:CD2	2.97	0.41
2:B:3220:LYS:HE3	2:B:3272:PHE:HD2	1.85	0.41
1:C:26:LEU:HB2	1:C:83:LYS:CG	2.50	0.41
1:C:33:ILE:O	1:C:38:ILE:HD11	2.19	0.41
1:C:219:ILE:O	1:C:223:LEU:HD23	2.20	0.41
1:C:440:ARG:HG3	1:C:543:PRO:HD2	2.03	0.41
1:C:462:HIS:CE1	1:C:623:THR:CG2	3.03	0.41
1:C:487:PHE:HD1	1:C:488:PRO:HD3	1.84	0.41
1:C:516:TRP:CE3	1:C:605:ILE:HG23	2.56	0.41
1:C:552:GLU:OE1	1:C:615:PHE:CE1	2.74	0.41
1:C:576:THR:HG23	1:C:579:PHE:N	2.35	0.41
1:C:604:THR:CG2	1:C:605:ILE:N	2.83	0.41
1:C:625:PHE:O	1:C:627:PRO:HD3	2.20	0.41
1:C:628:LEU:HD12	1:C:631:PHE:HB2	2.03	0.41
1:C:1034:ARG:CD	1:C:1035:TYR:CE2	3.01	0.41
1:C:1059:LEU:C	1:C:1059:LEU:CD1	2.94	0.41
1:C:1280:ILE:HB	1:C:1334:LYS:HG3	2.02	0.41
1:C:1311:HIS:CE1	1:C:1442:LEU:CD2	3.03	0.41
1:C:1531:TYR:CD1	1:C:1535:GLN:NE2	2.87	0.41
1:C:1533:ILE:CB	1:C:1534:PRO:HD3	2.39	0.41
1:C:1554:LEU:HG	1:C:1602:LEU:HD23	2.01	0.41
1:C:1557:ASN:HB3	1:C:1597:PHE:HZ	1.74	0.41
2:D:1701:ILE:HA	2:D:1704:PHE:CD1	2.55	0.41
2:D:1987:THR:CG2	2:D:2048:THR:CG2	2.95	0.41
2:D:2224:LEU:CD2	2:D:2225:PHE:N	2.82	0.41
2:D:2303:ALA:HB1	2:D:2368:LEU:HD13	2.03	0.41
2:D:2471:VAL:CG1	2:D:2472:LEU:N	2.82	0.41
2:D:2963:CYS:HG	2:D:3093:LEU:HD11	1.85	0.41
2:D:2970:PHE:CZ	2:D:2974:HIS:CE1	3.09	0.41
2:D:3033:ARG:N	2:D:3033:ARG:HD2	2.34	0.41
2:D:3293:VAL:HG12	2:D:3305:GLU:OE2	2.21	0.41
1:A:234:MET:CE	1:A:241:LEU:CD2	2.95	0.41
1:A:305:ALA:N	1:A:362:LEU:CD1	2.82	0.41
1:A:433:ARG:CA	1:A:436:VAL:HG12	2.50	0.41
1:A:485:PRO:HG2	1:A:662:LEU:CD2	2.49	0.41
1:A:574:HIS:O	1:A:576:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:LEU:C	1:A:646:LEU:CD2	2.93	0.41
1:A:658:CYS:SG	1:A:659:ALA:N	2.93	0.41
1:A:665:MET:O	1:A:688:PRO:HD2	2.20	0.41
1:A:1034:ARG:HG3	1:A:1035:TYR:CD2	2.56	0.41
1:A:1259:ARG:HH22	1:A:1324:VAL:CG1	2.33	0.41
1:A:1274:ARG:NE	1:A:1361:TYR:CD2	2.89	0.41
1:A:1301:LEU:C	1:A:1301:LEU:CD2	2.94	0.41
1:A:1409:GLU:OE2	1:A:1544:LYS:CE	2.63	0.41
1:A:1529:ASN:CB	1:A:1531:TYR:CE2	3.03	0.41
1:A:1607:ILE:CD1	1:A:1611:LEU:CD1	2.95	0.41
1:A:1662:THR:CA	2:B:1893:ARG:HB2	2.51	0.41
2:B:1705:HIS:CE1	2:B:1865:LEU:CD1	3.03	0.41
2:B:1829:LEU:HD13	2:B:1833:GLN:HE22	1.84	0.41
2:B:1829:LEU:C	2:B:1829:LEU:CD1	2.94	0.41
2:B:1850:VAL:CG2	2:B:1851:HIS:N	2.83	0.41
2:B:1955:TRP:HB2	2:B:1960:ILE:HD13	2.02	0.41
2:B:2148:HIS:NE2	2:B:2349:PHE:CZ	2.83	0.41
2:B:2165:GLY:HA2	2:D:1688:SER:HB2	2.02	0.41
2:B:2326:MET:HG2	2:B:2329:PHE:HD2	1.84	0.41
2:B:2356:TYR:CE2	2:B:2358:TYR:CZ	2.96	0.41
2:B:2857:GLU:HG2	2:B:2858:TYR:N	2.36	0.41
2:B:3201:PHE:C	2:B:3254:ILE:CD1	2.94	0.41
2:B:3263:LEU:HD22	2:B:3269:LYS:CD	2.48	0.41
2:B:3375:PHE:CE1	2:B:3390:ARG:O	2.73	0.41
1:C:1:GLU:CG	1:C:2:ASN:N	2.83	0.41
1:C:59:ILE:O	1:C:65:PHE:CD2	2.74	0.41
1:C:101:LEU:H	1:C:101:LEU:HD12	1.85	0.41
1:C:194:MET:HA	1:C:200:THR:CB	2.50	0.41
1:C:241:LEU:CD1	1:C:265:ALA:N	2.82	0.41
1:C:620:LEU:C	1:C:620:LEU:CD2	2.93	0.41
1:C:687:MET:HB3	1:C:689:ASN:OD1	2.20	0.41
1:C:781:ILE:HG21	1:C:785:LEU:HD11	2.03	0.41
1:C:1254:SER:CB	1:C:1522:ALA:CB	2.88	0.41
1:C:1420:LEU:HD12	1:C:1423:LEU:HD11	2.01	0.41
1:C:1430:LEU:N	1:C:1430:LEU:CD1	2.83	0.41
1:C:1589:LEU:CD1	1:C:1589:LEU:C	2.94	0.41
2:D:1811:LEU:C	2:D:1811:LEU:CD2	2.93	0.41
2:D:1909:MET:HB3	2:D:1935:GLU:CG	2.51	0.41
2:D:2083:LYS:HZ2	2:D:2158:GLU:HB3	1.85	0.41
2:D:2140:ILE:O	2:D:2146:PHE:HD2	2.03	0.41
2:D:2148:HIS:CD2	2:D:2348:VAL:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2326:MET:HG2	2:D:2329:PHE:HD2	1.85	0.41
2:D:2405:LYS:HG2	2:D:2407:SER:H	1.86	0.41
2:D:2636:ASN:ND2	2:D:2646:PHE:CE2	2.89	0.41
2:D:2688:LEU:HA	2:D:2829:LEU:HD11	2.02	0.41
2:D:2792:ASP:HA	2:D:2890:PRO:C	2.45	0.41
2:D:3223:THR:CG2	2:D:3224:ASP:H	2.19	0.41
2:D:3292:ILE:HD13	2:D:3293:VAL:CA	2.51	0.41
2:D:3297:ASN:H	2:D:3297:ASN:ND2	2.14	0.41
2:D:3340:LEU:HD22	2:D:3377:THR:HG22	1.95	0.41
2:D:3340:LEU:O	2:D:3341:ASN:HB3	2.21	0.41
2:D:3353:VAL:HG22	2:D:3381:THR:CG2	2.42	0.41
1:A:156:MET:CE	1:A:285:MET:CE	2.95	0.41
1:A:407:LYS:HA	1:A:653:PRO:CD	2.50	0.41
1:A:547:SER:N	1:A:558:THR:HG21	2.35	0.41
1:A:632:HIS:NE2	1:A:636:VAL:CG2	2.84	0.41
1:A:960:PHE:CE1	1:A:961:ASP:OD2	2.74	0.41
1:A:969:LYS:HG3	1:A:970:THR:N	2.36	0.41
1:A:1082:GLN:HB3	1:A:1086:LEU:HD11	2.02	0.41
1:A:1161:ILE:HG13	1:A:1212:ILE:HG22	2.03	0.41
1:A:1262:ILE:HG21	1:A:1453:LEU:HD23	2.03	0.41
2:B:1745:LEU:CB	2:B:1750:ALA:HB2	2.41	0.41
2:B:1817:LYS:HB2	2:B:1820:HIS:CE1	2.56	0.41
2:B:1874:PHE:CG	2:B:1878:HIS:CE1	3.08	0.41
2:B:2026:ILE:HD12	2:B:2030:LEU:CD2	2.51	0.41
2:B:2130:ASP:CG	2:B:2131:SER:H	2.29	0.41
2:B:2141:HIS:CE1	2:B:2278:LEU:CD1	3.03	0.41
2:B:2323:THR:CG2	2:B:2324:GLN:N	2.83	0.41
2:B:2354:LEU:CD1	2:B:2356:TYR:CE1	2.95	0.41
2:B:2372:GLU:O	2:B:2375:ILE:HG12	2.20	0.41
2:B:2419:LEU:C	2:B:2419:LEU:CD2	2.94	0.41
2:B:2653:ALA:HB1	2:B:2662:PHE:CD1	2.56	0.41
2:B:2657:THR:CG2	2:B:2658:ASP:N	2.83	0.41
2:B:2734:ARG:O	2:B:2755:PRO:HD2	2.20	0.41
2:B:3024:ILE:C	2:B:3026:SER:H	2.28	0.41
2:B:3195:ARG:HH22	2:B:3295:ARG:NH2	2.18	0.41
2:B:3264:THR:HG22	2:B:3265:ASP:N	2.35	0.41
2:B:3292:ILE:HD13	2:B:3293:VAL:CA	2.51	0.41
2:B:3349:PHE:CG	2:B:3375:PHE:CE1	3.08	0.41
1:C:97:PRO:HB2	1:C:146:LYS:HA	2.02	0.41
1:C:121:ASN:OD1	1:C:122:TYR:CD1	2.74	0.41
1:C:146:LYS:HZ1	1:C:148:LYS:CE	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:164:GLU:HB3	1:C:294:LEU:CD1	2.49	0.41
1:C:433:ARG:C	1:C:436:VAL:HG12	2.45	0.41
1:C:566:LEU:N	1:C:566:LEU:CD2	2.83	0.41
1:C:632:HIS:NE2	1:C:636:VAL:CG2	2.84	0.41
1:C:658:CYS:SG	1:C:659:ALA:N	2.93	0.41
1:C:943:HIS:CE1	1:C:946:TYR:CE2	3.09	0.41
1:C:1048:ASN:O	1:C:1051:ARG:HB3	2.20	0.41
1:C:1061:LYS:HE2	1:C:1067:TYR:CD1	2.56	0.41
1:C:1161:ILE:HG13	1:C:1212:ILE:HG22	2.03	0.41
1:C:1192:LYS:NZ	1:C:1235:ILE:HD11	2.30	0.41
1:C:1301:LEU:C	1:C:1301:LEU:CD2	2.94	0.41
1:C:1554:LEU:CG	1:C:1602:LEU:CD2	2.95	0.41
2:D:1973:VAL:HG22	2:D:2027:THR:CA	2.46	0.41
2:D:2030:LEU:O	2:D:2033:MET:HB2	2.21	0.41
2:D:2323:THR:CG2	2:D:2324:GLN:N	2.83	0.41
2:D:2372:GLU:O	2:D:2375:ILE:HG12	2.20	0.41
2:D:2472:LEU:CD2	2:D:2473:PRO:HD2	2.25	0.41
2:D:2538:ILE:HB	2:D:2577:MET:SD	2.60	0.41
2:D:2570:HIS:HD2	2:D:2701:HIS:CD2	2.38	0.41
2:D:2634:LEU:HA	2:D:2676:TRP:CZ3	2.52	0.41
2:D:2651:LEU:C	2:D:2651:LEU:CD1	2.94	0.41
2:D:3024:ILE:C	2:D:3026:SER:H	2.28	0.41
1:A:69:HIS:HB3	1:A:210:HIS:HD2	1.86	0.41
1:A:121:ASN:OD1	1:A:122:TYR:CD1	2.74	0.41
1:A:395:LEU:C	1:A:395:LEU:CD2	2.93	0.41
1:A:487:PHE:CE2	1:A:491:HIS:HE1	2.39	0.41
1:A:487:PHE:HD1	1:A:488:PRO:HD3	1.84	0.41
1:A:514:TRP:CZ3	1:A:628:LEU:CD1	3.03	0.41
1:A:514:TRP:CH2	1:A:524:PRO:HD3	2.55	0.41
1:A:552:GLU:OE1	1:A:622:TYR:CE1	2.74	0.41
1:A:576:THR:H	1:A:579:PHE:HB3	1.86	0.41
1:A:729:TYR:HA	1:A:779:PHE:O	2.21	0.41
1:A:804:GLU:CG	1:A:805:VAL:N	2.84	0.41
1:A:853:LEU:N	1:A:921:TYR:CD1	2.88	0.41
1:A:853:LEU:HD11	1:A:926:PRO:CG	2.51	0.41
1:A:881:TRP:CZ3	1:A:885:PRO:HG3	2.56	0.41
1:A:943:HIS:CE1	1:A:946:TYR:CE2	3.09	0.41
1:A:991:ILE:HD11	1:A:995:VAL:CG1	2.51	0.41
1:A:1059:LEU:C	1:A:1059:LEU:CD1	2.94	0.41
1:A:1086:LEU:HD22	1:A:1090:ILE:HG21	2.02	0.41
1:A:1244:GLU:HG3	1:A:1473:LYS:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1258:ILE:HG22	1:A:1259:ARG:N	2.34	0.41
1:A:1311:HIS:CE1	1:A:1442:LEU:CD2	3.03	0.41
1:A:1340:VAL:HA	1:A:1341:PRO:HD2	1.86	0.41
1:A:1353:PRO:HG2	1:A:1356:ILE:CD1	2.51	0.41
1:A:1379:ILE:HG23	1:A:1379:ILE:O	2.21	0.41
1:A:1554:LEU:CD1	1:A:1602:LEU:HD22	2.50	0.41
1:A:1640:VAL:CG2	1:A:1641:ILE:N	2.83	0.41
2:B:1671:ILE:HG23	2:B:1672:THR:N	2.36	0.41
2:B:1690:LYS:NZ	2:B:1690:LYS:HB3	2.35	0.41
2:B:1721:ALA:HB2	2:B:2012:LYS:HB3	2.02	0.41
2:B:1757:TRP:NE1	2:B:1763:ARG:CZ	2.84	0.41
2:B:1761:LEU:HG	2:B:1762:PRO:N	2.35	0.41
2:B:1811:LEU:C	2:B:1811:LEU:CD2	2.93	0.41
2:B:1816:THR:CG2	2:B:1817:LYS:N	2.83	0.41
2:B:1828:LEU:C	2:B:1828:LEU:CD2	2.94	0.41
2:B:1931:PHE:HB3	2:B:1943:PHE:CZ	2.55	0.41
2:B:2094:ARG:HB3	2:D:1747:LYS:NZ	2.26	0.41
2:B:2101:TYR:CE2	2:D:1694:SER:CB	3.03	0.41
2:B:2101:TYR:O	2:D:1693:HIS:HD2	2.04	0.41
2:B:2143:MET:O	2:B:2146:PHE:HB3	2.20	0.41
2:B:2151:ARG:CZ	2:B:2298:TRP:HZ3	2.34	0.41
2:B:2192:TYR:HD1	2:B:2199:VAL:HG22	1.86	0.41
2:B:2275:LEU:N	2:B:2275:LEU:CD2	2.83	0.41
2:B:2291:HIS:CA	2:B:2294:VAL:HG12	2.51	0.41
2:B:2494:HIS:NE2	2:B:3125:LYS:HG3	2.25	0.41
2:B:2572:LEU:HD23	2:B:2764:PHE:CE2	2.40	0.41
2:B:2734:ARG:HA	2:B:2735:PRO:HD3	1.81	0.41
2:B:2854:MET:O	2:B:2855:HIS:HB2	2.20	0.41
2:B:2978:THR:HG22	2:B:3106:HIS:HB2	2.02	0.41
2:B:3029:GLN:NE2	2:B:3088:TYR:HB3	2.35	0.41
2:B:3056:LEU:HD13	2:B:3056:LEU:C	2.44	0.41
2:B:3136:ILE:HD11	2:D:3345:TYR:CZ	2.55	0.41
2:B:3209:ILE:CD1	2:B:3235:ILE:CG2	2.99	0.41
2:B:3325:LYS:HD3	2:B:3367:TYR:HB2	2.02	0.41
2:B:3325:LYS:HE3	2:B:3325:LYS:HB2	1.87	0.41
2:B:3340:LEU:CB	2:B:3377:THR:CG2	2.93	0.41
2:B:3363:LEU:HB3	2:B:3364:GLY:H	1.58	0.41
1:C:69:HIS:HB3	1:C:210:HIS:HD2	1.86	0.41
1:C:72:TYR:CE2	1:C:76:MET:CE	3.04	0.41
1:C:137:ARG:HH21	1:C:139:VAL:CG2	2.33	0.41
1:C:163:LEU:C	1:C:163:LEU:CD1	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:395:LEU:C	1:C:395:LEU:CD2	2.93	0.41
1:C:462:HIS:CD2	1:C:480:CYS:HB2	2.43	0.41
1:C:526:LEU:C	1:C:526:LEU:CD2	2.94	0.41
1:C:600:ILE:CG2	1:C:601:THR:N	2.82	0.41
1:C:621:HIS:NE2	1:C:767:LYS:CB	2.82	0.41
1:C:729:TYR:HA	1:C:779:PHE:O	2.21	0.41
1:C:747:ILE:HD13	1:C:785:LEU:HD21	2.02	0.41
1:C:853:LEU:HD11	1:C:926:PRO:CG	2.51	0.41
1:C:881:TRP:CZ3	1:C:885:PRO:HG3	2.56	0.41
1:C:895:VAL:HG21	1:C:900:VAL:CG1	2.51	0.41
1:C:933:PRO:HB3	1:C:981:GLU:CB	2.51	0.41
1:C:969:LYS:HG3	1:C:970:THR:N	2.36	0.41
1:C:1116:TYR:HB2	1:C:1119:LEU:CD2	2.51	0.41
1:C:1126:ILE:HD12	1:C:1126:ILE:H	1.84	0.41
1:C:1147:LEU:C	1:C:1147:LEU:CD2	2.94	0.41
1:C:1153:LYS:HD2	1:C:1153:LYS:N	2.35	0.41
1:C:1205:HIS:HD2	1:C:1207:GLU:CB	2.34	0.41
1:C:1229:PHE:CD2	1:C:1230:LYS:O	2.74	0.41
1:C:1236:HIS:C	1:C:1238:PRO:HD3	2.46	0.41
1:C:1326:VAL:HG21	1:C:1493:PHE:CE1	2.40	0.41
1:C:1342:TYR:HB2	1:C:1457:THR:HB	2.03	0.41
1:C:1352:LEU:CB	1:C:1353:PRO:HD2	2.37	0.41
1:C:1487:HIS:NE2	2:D:2038:ASP:O	2.54	0.41
1:C:1567:PHE:CD1	1:C:1583:ALA:CA	2.95	0.41
1:C:1641:ILE:O	1:C:1641:ILE:HG23	2.21	0.41
2:D:1683:VAL:O	2:D:1787:PRO:HG3	2.20	0.41
2:D:1732:GLN:CG	2:D:1934:PRO:HB3	2.50	0.41
2:D:1757:TRP:HE1	2:D:1763:ARG:CZ	2.33	0.41
2:D:1757:TRP:NE1	2:D:1763:ARG:CZ	2.84	0.41
2:D:1766:LEU:HD12	2:D:1766:LEU:N	2.35	0.41
2:D:1772:VAL:HG12	2:D:1774:THR:O	2.21	0.41
2:D:1828:LEU:C	2:D:1828:LEU:CD2	2.94	0.41
2:D:1829:LEU:HD13	2:D:1833:GLN:HE22	1.84	0.41
2:D:1833:GLN:HG2	2:D:1838:ASP:HB3	2.02	0.41
2:D:1847:HIS:ND1	2:D:1877:HIS:NE2	2.68	0.41
2:D:1892:GLN:O	2:D:1895:ARG:HB2	2.21	0.41
2:D:1906:VAL:CG2	2:D:1907:ASN:N	2.84	0.41
2:D:1943:PHE:HB2	2:D:1945:TYR:CE2	2.56	0.41
2:D:1978:LEU:C	2:D:1978:LEU:CD2	2.94	0.41
2:D:1989:ASP:OD1	2:D:2004:TYR:HB3	2.21	0.41
2:D:2083:LYS:HG2	2:D:2169:ALA:CB	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2136:VAL:HG21	2:D:2425:MET:SD	2.61	0.41
2:D:2143:MET:O	2:D:2146:PHE:HB3	2.20	0.41
2:D:2151:ARG:HG3	2:D:2295:ASP:OD2	2.21	0.41
2:D:2179:ILE:O	2:D:2225:PHE:CD2	2.74	0.41
2:D:2256:PHE:CZ	2:D:2298:TRP:HB2	2.56	0.41
2:D:2258:VAL:CG1	2:D:2259:MET:N	2.83	0.41
2:D:2275:LEU:N	2:D:2275:LEU:CD2	2.83	0.41
2:D:2291:HIS:CA	2:D:2294:VAL:HG12	2.51	0.41
2:D:2327:ARG:HB3	2:D:2328:PRO:CA	2.44	0.41
2:D:2389:LEU:C	2:D:2389:LEU:CD2	2.94	0.41
2:D:2559:CYS:CB	2:D:2561:HIS:CE1	3.03	0.41
2:D:2577:MET:HE2	2:D:2698:TRP:CH2	2.46	0.41
2:D:2592:TYR:CD1	2:D:2592:TYR:C	2.98	0.41
2:D:2600:THR:O	2:D:2635:PHE:CE1	2.74	0.41
2:D:2622:LEU:C	2:D:2622:LEU:CD1	2.94	0.41
2:D:2627:THR:CG2	2:D:2681:THR:CG2	2.94	0.41
2:D:2810:SER:HB3	2:D:2822:PHE:CZ	2.55	0.41
2:D:2910:LYS:HG2	2:D:3175:ASP:HB3	2.02	0.41
2:D:2912:ILE:O	2:D:2915:LEU:HB2	2.21	0.41
2:D:3002:THR:HG22	2:D:3048:PHE:CE1	2.55	0.41
2:D:3059:LEU:HD11	2:D:3115:ILE:HD11	2.03	0.41
2:D:3123:ARG:HH22	2:D:3191:LEU:HD13	1.86	0.41
2:D:3140:PRO:HB2	2:D:3145:ASN:HD22	1.86	0.41
2:D:3142:HIS:CG	2:D:3146:TYR:CE2	3.06	0.41
2:D:3190:VAL:CG1	2:D:3191:LEU:N	2.83	0.41
2:D:3201:PHE:C	2:D:3254:ILE:CD1	2.94	0.41
2:D:3320:VAL:CG1	2:D:3321:LYS:H	2.14	0.41
1:A:5:ARG:HD3	1:A:89:LEU:HG	2.03	0.41
1:A:94:TRP:CH2	1:A:185:LEU:HD22	2.51	0.41
1:A:137:ARG:HH21	1:A:139:VAL:CG2	2.33	0.41
1:A:270:TYR:CA	1:A:273:LEU:HD13	2.48	0.41
1:A:428:ILE:CD1	1:A:513:TYR:C	2.94	0.41
1:A:485:PRO:HA	1:A:595:GLU:HG3	2.03	0.41
1:A:493:LEU:CD2	1:A:493:LEU:C	2.94	0.41
1:A:502:LEU:HB3	1:A:507:ALA:CB	2.51	0.41
1:A:546:SER:CB	1:A:558:THR:HG21	2.51	0.41
1:A:560:ARG:HB2	1:A:609:THR:O	2.22	0.41
1:A:710:ILE:CD1	1:A:718:MET:SD	3.08	0.41
1:A:815:ILE:HA	1:A:816:PRO:HD2	1.86	0.41
1:A:853:LEU:HD21	1:A:921:TYR:CD2	2.56	0.41
1:A:1112:PHE:HB3	1:A:1114:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:PHE:C	1:A:1153:LYS:CD	2.91	0.41
1:A:1193:TYR:C	1:A:1193:TYR:CD1	2.99	0.41
1:A:1262:ILE:CG2	1:A:1341:PRO:HB2	2.48	0.41
1:A:1280:ILE:CG2	1:A:1281:GLU:N	2.83	0.41
1:A:1413:PHE:O	1:A:1416:PHE:HB3	2.20	0.41
1:A:1476:TYR:CD2	1:A:1476:TYR:C	2.98	0.41
2:B:1689:MET:CA	2:B:1748:HIS:CE1	3.03	0.41
2:B:2141:HIS:HD2	2:B:2146:PHE:HD2	1.69	0.41
2:B:2385:PHE:CE2	2:B:2436:ASP:OD1	2.74	0.41
2:B:2405:LYS:HG2	2:B:2407:SER:H	1.86	0.41
2:B:2538:ILE:HB	2:B:2577:MET:SD	2.60	0.41
2:B:2592:TYR:CD1	2:B:2592:TYR:C	2.98	0.41
2:B:2651:LEU:C	2:B:2651:LEU:CD1	2.94	0.41
2:B:3008:THR:O	2:B:3008:THR:HG22	2.21	0.41
2:B:3123:ARG:HH22	2:B:3191:LEU:HD13	1.86	0.41
2:B:3140:PRO:HB2	2:B:3145:ASN:HD22	1.86	0.41
2:B:3342:LEU:C	2:B:3342:LEU:CD2	2.94	0.41
2:B:3367:TYR:CD2	2:B:3367:TYR:C	2.98	0.41
1:C:18:ASP:OD1	1:C:85:ARG:HA	2.20	0.41
1:C:65:PHE:HD1	1:C:66:PRO:CD	2.34	0.41
1:C:73:VAL:CG2	1:C:74:VAL:N	2.83	0.41
1:C:426:LYS:HD2	1:C:509:ILE:HD13	2.02	0.41
1:C:427:ASN:HB3	1:C:513:TYR:OH	2.21	0.41
1:C:488:PRO:O	1:C:640:TRP:CZ3	2.75	0.41
1:C:588:GLN:HE22	1:C:597:GLN:CG	2.33	0.41
1:C:710:ILE:CD1	1:C:718:MET:SD	3.08	0.41
1:C:791:THR:CG2	1:C:794:GLY:N	2.82	0.41
1:C:815:ILE:HA	1:C:816:PRO:HD2	1.86	0.41
1:C:989:THR:HG22	1:C:991:ILE:H	1.86	0.41
1:C:1014:ALA:O	1:C:1017:TYR:HD1	2.04	0.41
1:C:1112:PHE:HB3	1:C:1114:TYR:CD2	2.56	0.41
1:C:1147:LEU:O	1:C:1229:PHE:CE1	2.74	0.41
1:C:1274:ARG:NE	1:C:1361:TYR:CD2	2.89	0.41
1:C:1319:TRP:HE3	1:C:1320:HIS:HA	1.85	0.41
2:D:1817:LYS:HB2	2:D:1820:HIS:CE1	2.56	0.41
2:D:2192:TYR:HD1	2:D:2199:VAL:HG22	1.86	0.41
2:D:2244:LEU:C	2:D:2244:LEU:CD1	2.94	0.41
2:D:2627:THR:HG22	2:D:2683:TYR:CA	2.51	0.41
2:D:2829:LEU:CD1	2:D:2829:LEU:C	2.94	0.41
2:D:2895:HIS:HE1	2:D:2899:HIS:CE1	2.39	0.41
2:D:3097:ALA:O	2:D:3103:MET:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3292:ILE:CD1	2:D:3292:ILE:C	2.94	0.41
1:A:26:LEU:HB2	1:A:83:LYS:CG	2.50	0.40
1:A:384:PHE:CZ	1:A:388:GLY:CA	2.95	0.40
1:A:551:PHE:CG	1:A:552:GLU:N	2.89	0.40
1:A:552:GLU:OE1	1:A:615:PHE:CE1	2.74	0.40
1:A:578:LEU:N	1:A:578:LEU:CD2	2.84	0.40
1:A:628:LEU:HD12	1:A:631:PHE:HB2	2.03	0.40
1:A:719:ILE:HA	1:A:722:ASN:ND2	2.36	0.40
1:A:781:ILE:CG2	1:A:785:LEU:CG	2.94	0.40
1:A:852:GLU:C	1:A:921:TYR:HD1	2.29	0.40
1:A:875:PHE:CD2	1:A:1083:PRO:HG2	2.56	0.40
1:A:933:PRO:HB3	1:A:981:GLU:CB	2.51	0.40
1:A:945:LYS:C	1:A:957:ASN:HD21	2.29	0.40
1:A:953:VAL:O	1:A:955:LYS:HE2	2.21	0.40
1:A:1116:TYR:HB2	1:A:1119:LEU:CD2	2.51	0.40
1:A:1161:ILE:CD1	1:A:1171:ALA:CB	2.94	0.40
1:A:1162:CYS:HA	1:A:1168:CYS:HA	2.02	0.40
1:A:1224:LEU:N	1:A:1224:LEU:CD2	2.84	0.40
1:A:1233:SER:HA	2:B:2320:SER:HB2	2.03	0.40
1:A:1244:GLU:OE1	1:A:1244:GLU:N	2.38	0.40
1:A:1274:ARG:CG	1:A:1275:ALA:N	2.82	0.40
1:A:1420:LEU:HD12	1:A:1423:LEU:HD11	2.01	0.40
1:A:1464:ILE:CD1	1:A:1526:LEU:CB	2.98	0.40
2:B:1705:HIS:HE1	2:B:1865:LEU:CD1	2.29	0.40
2:B:1766:LEU:N	2:B:1766:LEU:HD12	2.35	0.40
2:B:2096:ILE:HG23	2:B:2097:GLY:N	2.36	0.40
2:B:2103:LEU:HD22	2:B:2106:LEU:HD12	2.02	0.40
2:B:2106:LEU:CD2	2:B:2164:HIS:CG	2.99	0.40
2:B:2256:PHE:CZ	2:B:2298:TRP:HB2	2.56	0.40
2:B:2542:HIS:CG	2:B:2559:CYS:SG	3.14	0.40
2:B:2569:TRP:HD1	2:B:2736:LEU:HB3	1.85	0.40
2:B:2946:HIS:HB3	2:B:3097:ALA:CB	2.51	0.40
2:B:3090:MET:O	2:B:3090:MET:HG2	2.20	0.40
2:B:3215:VAL:O	2:B:3215:VAL:HG23	2.21	0.40
2:B:3274:LEU:HD12	2:B:3276:LYS:HE3	2.01	0.40
1:C:73:VAL:HB	1:C:89:LEU:HD13	2.02	0.40
1:C:273:LEU:N	1:C:273:LEU:CD1	2.82	0.40
1:C:428:ILE:CD1	1:C:513:TYR:C	2.94	0.40
1:C:502:LEU:HB3	1:C:507:ALA:CB	2.51	0.40
1:C:574:HIS:CE1	1:C:575:HIS:CE1	3.10	0.40
1:C:665:MET:O	1:C:688:PRO:HD2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:801:ASP:HB3	1:C:809:LYS:NZ	2.37	0.40
1:C:853:LEU:HD21	1:C:921:TYR:CD2	2.56	0.40
1:C:1095:VAL:HG13	1:C:1099:HIS:CE1	2.56	0.40
1:C:1095:VAL:HG12	1:C:1099:HIS:ND1	2.35	0.40
1:C:1193:TYR:C	1:C:1193:TYR:CD1	2.99	0.40
1:C:1262:ILE:HG21	1:C:1453:LEU:HD23	2.03	0.40
1:C:1363:ASN:HB2	1:C:1365:ARG:NH2	2.34	0.40
1:C:1427:LEU:CD1	1:C:1427:LEU:C	2.94	0.40
1:C:1533:ILE:HA	1:C:1536:LEU:HD23	2.03	0.40
2:D:1701:ILE:CG2	2:D:1741:PHE:CE1	3.04	0.40
2:D:1770:LEU:N	2:D:1770:LEU:CD1	2.82	0.40
2:D:1819:HIS:CG	2:D:1820:HIS:H	2.39	0.40
2:D:2149:TRP:HZ3	2:D:2150:HIS:CD2	2.39	0.40
2:D:2258:VAL:HG21	2:D:2416:ILE:CG2	2.51	0.40
2:D:2296:LYS:HA	2:D:2358:TYR:CZ	2.56	0.40
2:D:2307:LYS:HE3	2:D:2369:HIS:CG	2.57	0.40
2:D:2368:LEU:HA	2:D:2371:ILE:HG12	2.03	0.40
2:D:2385:PHE:CE2	2:D:2436:ASP:OD1	2.74	0.40
2:D:2631:ARG:NE	2:D:2679:GLY:HA2	2.22	0.40
2:D:3038:ALA:C	2:D:3039:ILE:CG1	2.94	0.40
2:D:3062:ASP:O	2:D:3063:ASN:HB3	2.20	0.40
1:A:60:HIS:HA	1:A:65:PHE:CD2	2.52	0.40
1:A:255:ILE:HG12	1:A:257:LEU:H	1.86	0.40
1:A:446:PHE:CG	1:A:505:ARG:CZ	3.04	0.40
1:A:526:LEU:C	1:A:526:LEU:CD2	2.94	0.40
1:A:566:LEU:CD1	1:A:608:TRP:CD2	3.01	0.40
1:A:583:LEU:C	1:A:583:LEU:CD2	2.95	0.40
1:A:1033:LEU:C	1:A:1033:LEU:CD1	2.94	0.40
1:A:1095:VAL:HG12	1:A:1099:HIS:ND1	2.35	0.40
1:A:1236:HIS:C	1:A:1238:PRO:HD3	2.46	0.40
1:A:1342:TYR:HB2	1:A:1457:THR:HB	2.03	0.40
1:A:1392:ASP:O	1:A:1395:PHE:CZ	2.75	0.40
1:A:1427:LEU:CD1	1:A:1427:LEU:C	2.94	0.40
1:A:1528:LEU:O	1:A:1531:TYR:CD2	2.73	0.40
2:B:1815:SER:OG	2:B:1820:HIS:NE2	2.54	0.40
2:B:1892:GLN:O	2:B:1895:ARG:HB2	2.21	0.40
2:B:2016:TRP:HZ3	2:B:2018:PHE:CE2	2.39	0.40
2:B:2093:GLU:O	2:B:2096:ILE:HG22	2.22	0.40
2:B:2136:VAL:HG21	2:B:2425:MET:SD	2.61	0.40
2:B:2148:HIS:CD2	2:B:2348:VAL:HG21	2.56	0.40
2:B:2215:TYR:CD2	2:B:2216:THR:O	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2307:LYS:HE3	2:B:2369:HIS:CG	2.57	0.40
2:B:2382:VAL:CG1	2:B:2383:ARG:N	2.85	0.40
2:B:2612:ASN:OD1	2:B:2614:PHE:HB2	2.22	0.40
2:B:2618:HIS:HE1	2:B:2623:GLY:HA2	1.86	0.40
2:B:2636:ASN:ND2	2:B:2646:PHE:CE2	2.89	0.40
2:B:2794:THR:HG22	2:B:2848:THR:HA	2.03	0.40
2:B:2799:LEU:HB2	2:B:2842:LEU:CD2	2.52	0.40
2:B:2811:PHE:HB2	2:B:2865:HIS:O	2.22	0.40
2:B:2858:TYR:CE1	2:B:2886:VAL:HG12	2.55	0.40
2:B:3097:ALA:O	2:B:3103:MET:HE2	2.20	0.40
2:B:3212:THR:CG2	2:B:3213:ALA:N	2.83	0.40
2:B:3217:VAL:HA	2:B:3273:ASP:OD1	2.20	0.40
2:B:3219:ILE:HG21	2:B:3261:LEU:CD1	2.52	0.40
2:B:3275:LYS:HG2	2:B:3284:ALA:HA	2.03	0.40
2:B:3347:ALA:CA	2:B:3350:LYS:HD3	2.51	0.40
1:C:67:HIS:NE2	1:C:268:PHE:CZ	2.83	0.40
1:C:81:GLN:C	1:C:84:ARG:H	2.29	0.40
1:C:128:ILE:N	1:C:128:ILE:CD1	2.84	0.40
1:C:183:HIS:ND1	1:C:194:MET:CE	2.81	0.40
1:C:314:GLY:HA2	1:C:345:GLY:O	2.22	0.40
1:C:751:ASP:HB3	1:C:753:VAL:HG23	2.03	0.40
1:C:861:LYS:HZ1	1:C:963:HIS:H	1.69	0.40
1:C:960:PHE:CE1	1:C:961:ASP:OD2	2.74	0.40
1:C:1033:LEU:C	1:C:1033:LEU:CD1	2.94	0.40
1:C:1059:LEU:HD21	1:C:1130:ASN:HB2	2.02	0.40
1:C:1090:ILE:CG2	1:C:1091:ASN:N	2.82	0.40
1:C:1157:VAL:HB	1:C:1174:PHE:CE1	2.56	0.40
1:C:1202:LEU:HB2	1:C:1204:LEU:HG	2.01	0.40
1:C:1254:SER:HB3	1:C:1522:ALA:N	2.36	0.40
1:C:1386:THR:HG22	1:C:1387:THR:N	2.36	0.40
1:C:1611:LEU:HB3	1:C:1616:VAL:CG2	2.51	0.40
2:D:1756:TYR:HB2	2:D:1880:GLN:CA	2.51	0.40
2:D:1913:LEU:N	2:D:1913:LEU:CD1	2.84	0.40
2:D:1990:PHE:CD2	2:D:2002:ALA:CB	3.03	0.40
2:D:2152:LEU:HD21	2:D:2329:PHE:CG	2.56	0.40
2:D:2154:THR:O	2:D:2288:PHE:CE2	2.74	0.40
2:D:2191:TYR:CE2	2:D:2193:ASP:O	2.74	0.40
2:D:2542:HIS:CG	2:D:2559:CYS:SG	3.14	0.40
2:D:2975:ARG:HG3	2:D:3110:ASP:OD2	2.22	0.40
2:D:2978:THR:HG22	2:D:3106:HIS:HB2	2.02	0.40
2:D:3197:LYS:HD3	2:D:3197:LYS:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3251:ARG:HH21	2:D:3303:ILE:HG21	1.86	0.40
2:D:3274:LEU:CD1	2:D:3274:LEU:C	2.94	0.40
2:D:3325:LYS:HD3	2:D:3367:TYR:HB2	2.02	0.40
1:A:234:MET:HE2	1:A:241:LEU:HG	2.02	0.40
1:A:468:CYS:CB	1:A:477:TYR:CE1	3.02	0.40
1:A:487:PHE:CZ	1:A:491:HIS:CE1	3.09	0.40
1:A:552:GLU:OE2	1:A:615:PHE:CD1	2.74	0.40
1:A:688:PRO:CA	1:A:691:ILE:HG12	2.35	0.40
1:A:746:PHE:CE2	1:A:799:THR:CB	2.95	0.40
1:A:895:VAL:HG21	1:A:900:VAL:CG1	2.51	0.40
1:A:901:PHE:CD1	1:A:902:PRO:HD3	2.56	0.40
1:A:936:HIS:HD2	1:A:937:LEU:O	2.05	0.40
1:A:984:GLU:O	1:A:985:PHE:CD1	2.74	0.40
1:A:1095:VAL:HG13	1:A:1099:HIS:CE1	2.56	0.40
1:A:1211:TYR:CE2	1:A:1212:ILE:O	2.74	0.40
1:A:1431:LEU:HD13	1:A:1450:VAL:HG11	2.04	0.40
1:A:1436:LYS:CD	1:A:1437:TYR:CE1	2.95	0.40
1:A:1567:PHE:CD1	1:A:1583:ALA:N	2.80	0.40
2:B:1756:TYR:HB2	2:B:1880:GLN:CA	2.51	0.40
2:B:2170:VAL:HG12	2:B:2171:PRO:O	2.21	0.40
2:B:2184:HIS:HA	2:B:2187:THR:OG1	2.21	0.40
2:B:2259:MET:HG3	2:B:2260:HIS:N	2.37	0.40
2:B:2401:PHE:CE1	2:B:2402:GLN:O	2.74	0.40
2:B:2718:ARG:HH11	2:B:2718:ARG:HD3	1.76	0.40
2:B:2912:ILE:O	2:B:2915:LEU:HB2	2.21	0.40
2:B:3081:LEU:H	2:B:3081:LEU:CD2	2.29	0.40
2:B:3267:HIS:CG	2:B:3268:VAL:N	2.88	0.40
1:C:194:MET:SD	1:C:205:ILE:HD12	2.61	0.40
1:C:329:ASP:OD2	1:C:330:ARG:CZ	2.67	0.40
1:C:446:PHE:CG	1:C:505:ARG:CZ	3.04	0.40
1:C:466:ALA:HB1	1:C:477:TYR:C	2.46	0.40
1:C:493:LEU:CD2	1:C:493:LEU:C	2.94	0.40
1:C:578:LEU:HD11	1:C:604:THR:CG2	2.29	0.40
1:C:719:ILE:HA	1:C:722:ASN:ND2	2.36	0.40
1:C:749:THR:HG23	1:C:751:ASP:CB	2.50	0.40
1:C:996:LEU:C	1:C:996:LEU:CD1	2.95	0.40
1:C:1034:ARG:HG3	1:C:1035:TYR:CD2	2.56	0.40
1:C:1192:LYS:HZ1	1:C:1235:ILE:CD1	2.33	0.40
1:C:1261:ASN:HD22	1:C:1263:GLU:HB2	1.86	0.40
2:D:2026:ILE:HD12	2:D:2030:LEU:CD2	2.51	0.40
2:D:2794:THR:HG22	2:D:2848:THR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3042:GLN:HG3	2:D:3043:THR:N	2.35	0.40
2:D:3083:GLY:HA3	2:D:3091:SER:N	2.36	0.40
2:D:3209:ILE:HD11	2:D:3235:ILE:CG2	2.50	0.40
2:D:3211:THR:CG2	2:D:3277:TYR:HE1	2.35	0.40
2:D:3248:ARG:CZ	2:D:3320:VAL:CG2	2.94	0.40
2:D:3369:VAL:O	2:D:3369:VAL:HG22	2.22	0.40
1:A:81:GLN:C	1:A:84:ARG:H	2.29	0.40
1:A:104:LEU:HB3	1:A:123:TRP:CZ3	2.56	0.40
1:A:213:VAL:CG2	1:A:214:ASP:N	2.83	0.40
1:A:226:LEU:CD2	1:A:291:LYS:CE	2.95	0.40
1:A:229:LYS:CG	1:A:230:ASP:N	2.84	0.40
1:A:488:PRO:O	1:A:640:TRP:CZ3	2.75	0.40
1:A:526:LEU:CD2	1:A:544:PHE:CD2	3.04	0.40
1:A:574:HIS:CE1	1:A:575:HIS:CE1	3.10	0.40
1:A:871:GLN:HE22	1:A:881:TRP:HZ2	1.66	0.40
1:A:946:TYR:CE2	1:A:957:ASN:OD1	2.75	0.40
1:A:1061:LYS:HE2	1:A:1067:TYR:CD1	2.56	0.40
1:A:1142:PHE:CD1	1:A:1195:ILE:CG2	2.95	0.40
1:A:1292:PHE:HD1	1:A:1492:PRO:HG2	1.86	0.40
1:A:1379:ILE:CD1	1:A:1444:TYR:CE1	3.04	0.40
1:A:1449:PRO:HA	1:A:1452:PHE:CE2	2.57	0.40
1:A:1618:LEU:CD1	1:A:1646:ILE:HD11	2.51	0.40
2:B:1701:ILE:CG2	2:B:1741:PHE:CE1	3.04	0.40
2:B:1757:TRP:CZ3	2:B:1873:LEU:HD13	2.51	0.40
2:B:1909:MET:HB3	2:B:1935:GLU:CG	2.51	0.40
2:B:1989:ASP:OD1	2:B:2004:TYR:HB3	2.21	0.40
2:B:2139:CYS:SG	2:B:2141:HIS:NE2	2.95	0.40
2:B:2141:HIS:O	2:B:2427:TRP:CD1	2.75	0.40
2:B:2154:THR:O	2:B:2288:PHE:CE2	2.74	0.40
2:B:2255:GLN:OE1	2:B:2433:PHE:CE1	2.74	0.40
2:B:2255:GLN:OE1	2:B:2433:PHE:CZ	2.75	0.40
2:B:2303:ALA:HB1	2:B:2368:LEU:HD13	2.03	0.40
2:B:2565:THR:HA	2:B:2568:HIS:ND1	2.37	0.40
2:B:2621:TYR:HE2	2:B:2693:TYR:OH	2.04	0.40
2:B:2870:ASP:N	2:B:2876:LEU:CD2	2.84	0.40
2:B:3251:ARG:HH21	2:B:3303:ILE:HG21	1.86	0.40
1:C:32:SER:HA	1:C:37:LYS:CG	2.44	0.40
1:C:104:LEU:HB3	1:C:123:TRP:CZ3	2.56	0.40
1:C:267:LEU:C	1:C:267:LEU:CD1	2.94	0.40
1:C:487:PHE:CE2	1:C:491:HIS:HE1	2.39	0.40
1:C:514:TRP:CH2	1:C:524:PRO:HD3	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:GLU:OE2	1:C:615:PHE:CD1	2.74	0.40
1:C:672:PHE:CD1	1:C:675:PRO:HG2	2.56	0.40
1:C:762:VAL:HG12	1:C:763:LEU:N	2.36	0.40
1:C:930:TRP:CH2	1:C:1014:ALA:O	2.75	0.40
1:C:984:GLU:O	1:C:985:PHE:CG	2.75	0.40
1:C:1125:SER:HB3	1:C:1128:GLN:HB2	2.04	0.40
1:C:1169:HIS:HB2	1:C:1202:LEU:HD21	2.02	0.40
1:C:1379:ILE:CD1	1:C:1444:TYR:CE1	3.05	0.40
2:D:1671:ILE:HG23	2:D:1672:THR:N	2.36	0.40
2:D:1686:LEU:HD12	2:D:1689:MET:CE	2.33	0.40
2:D:1829:LEU:C	2:D:1829:LEU:CD1	2.94	0.40
2:D:1924:LEU:N	2:D:1924:LEU:CD2	2.83	0.40
2:D:2093:GLU:O	2:D:2096:ILE:HG22	2.22	0.40
2:D:2322:MET:HE3	2:D:2346:ASN:HA	2.02	0.40
2:D:2403:ILE:CG2	2:D:2411:HIS:HB3	2.52	0.40
2:D:2915:LEU:HA	2:D:2915:LEU:HD23	1.91	0.40
2:D:3205:VAL:CG1	2:D:3291:ILE:CD1	2.99	0.40
2:D:3209:ILE:CD1	2:D:3235:ILE:CG2	2.99	0.40
2:D:3318:VAL:HG13	2:D:3394:HIS:C	2.46	0.40
1:A:128:ILE:N	1:A:128:ILE:CD1	2.84	0.40
1:A:156:MET:C	1:A:159:VAL:HG22	2.47	0.40
1:A:324:ILE:CG2	1:A:325:PRO:HD2	2.52	0.40
1:A:329:ASP:OD2	1:A:330:ARG:CZ	2.67	0.40
1:A:344:LEU:CD1	1:A:344:LEU:C	2.95	0.40
1:A:632:HIS:CE1	1:A:636:VAL:CG2	3.04	0.40
1:A:895:VAL:HG23	1:A:898:MET:SD	2.62	0.40
1:A:984:GLU:HG3	1:A:985:PHE:H	1.87	0.40
1:A:1014:ALA:O	1:A:1017:TYR:HD1	2.04	0.40
1:A:1101:VAL:HG23	1:A:1104:ASN:HB2	2.01	0.40
1:A:1229:PHE:CD2	1:A:1230:LYS:O	2.74	0.40
1:A:1247:VAL:O	1:A:1247:VAL:HG23	2.21	0.40
1:A:1249:GLN:CD	1:A:1476:TYR:CD1	2.98	0.40
1:A:1352:LEU:CB	1:A:1353:PRO:HD2	2.37	0.40
1:A:1363:ASN:HB2	1:A:1365:ARG:NH2	2.34	0.40
1:A:1567:PHE:CZ	1:A:1580:SER:HB3	2.57	0.40
2:B:1715:ALA:CA	2:B:1719:ARG:NH2	2.47	0.40
2:B:1757:TRP:O	2:B:1759:TRP:CE3	2.75	0.40
2:B:1823:PHE:CE2	2:B:1853:TRP:HZ3	2.40	0.40
2:B:1913:LEU:HD13	2:B:1934:PRO:CG	2.52	0.40
2:B:2101:TYR:CE1	2:D:1693:HIS:O	2.75	0.40
2:B:2145:THR:O	2:B:2145:THR:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2149:TRP:HZ3	2:B:2150:HIS:CD2	2.39	0.40
2:B:2152:LEU:HD21	2:B:2329:PHE:CG	2.57	0.40
2:B:2173:TRP:CZ2	2:B:2179:ILE:CD1	2.94	0.40
2:B:2182:ILE:HB	2:B:2187:THR:CG2	2.51	0.40
2:B:2368:LEU:HA	2:B:2371:ILE:HG12	2.03	0.40
2:B:2394:ARG:HH11	2:B:2394:ARG:HD2	1.71	0.40
2:B:2477:LEU:N	2:B:2477:LEU:CD2	2.84	0.40
2:B:2627:THR:HG22	2:B:2683:TYR:CA	2.51	0.40
2:B:2804:LYS:HE2	2:B:2832:GLU:OE2	2.22	0.40
2:B:2837:TRP:HZ3	2:B:2839:PHE:CE2	2.40	0.40
2:B:2975:ARG:HG3	2:B:3110:ASP:OD2	2.22	0.40
2:B:3209:ILE:HD11	2:B:3235:ILE:CG2	2.50	0.40
2:B:3261:LEU:HB2	2:B:3263:LEU:HD13	2.04	0.40
2:B:3326:ILE:HG22	2:B:3368:SER:HB3	2.04	0.40
2:B:3340:LEU:O	2:B:3341:ASN:HB3	2.21	0.40
1:C:97:PRO:HB3	1:C:146:LYS:HA	2.03	0.40
1:C:197:LEU:HB2	1:C:346:GLY:N	2.37	0.40
1:C:215:ARG:HB3	1:C:215:ARG:NH1	2.37	0.40
1:C:583:LEU:CD2	1:C:583:LEU:C	2.95	0.40
1:C:651:HIS:O	1:C:653:PRO:HD3	2.22	0.40
1:C:984:GLU:O	1:C:985:PHE:CD1	2.74	0.40
1:C:1143:PHE:CD2	1:C:1193:TYR:O	2.75	0.40
1:C:1214:TYR:CD1	1:C:1214:TYR:N	2.89	0.40
1:C:1292:PHE:HD1	1:C:1492:PRO:HG2	1.86	0.40
1:C:1392:ASP:O	1:C:1395:PHE:CZ	2.75	0.40
1:C:1427:LEU:HD21	1:C:1431:LEU:HD11	2.03	0.40
1:C:1476:TYR:CD2	1:C:1476:TYR:C	2.98	0.40
2:D:2067:TYR:CE2	2:D:2069:PRO:HD3	2.56	0.40
2:D:2106:LEU:HA	2:D:2164:HIS:CD2	2.56	0.40
2:D:2172:TYR:HB2	2:D:2293:PHE:HA	2.00	0.40
2:D:2242:LEU:C	2:D:2242:LEU:CD1	2.94	0.40
2:D:2336:ASN:OD1	2:D:2338:PHE:CD2	2.75	0.40
2:D:2356:TYR:CE2	2:D:2358:TYR:CZ	2.96	0.40
2:D:2419:LEU:C	2:D:2419:LEU:CD2	2.94	0.40
2:D:2477:LEU:N	2:D:2477:LEU:CD2	2.84	0.40
2:D:2565:THR:HA	2:D:2568:HIS:ND1	2.37	0.40
2:D:2618:HIS:HE1	2:D:2623:GLY:HA2	1.86	0.40
2:D:2722:TYR:CD2	2:D:2723:ASP:OD1	2.74	0.40
2:D:2946:HIS:HB3	2:D:3097:ALA:CB	2.51	0.40
2:D:3198:SER:N	2:D:3297:ASN:HB3	2.37	0.40
2:D:3311:ASP:H	2:D:3387:ASN:HB3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3341:ASN:HB2	2:D:3361:PHE:HB3	1.98	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	1662/1664 (100%)	1601 (96%)	56 (3%)	5 (0%)	36	72
1	C	1662/1664 (100%)	1599 (96%)	58 (4%)	5 (0%)	36	72
2	B	1732/1734 (100%)	1608 (93%)	94 (5%)	30 (2%)	7	36
2	D	1732/1734 (100%)	1608 (93%)	94 (5%)	30 (2%)	7	36
All	All	6788/6796 (100%)	6416 (94%)	302 (4%)	70 (1%)	15	49

All (70) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	2960	TYR
2	B	3028	ASN
2	B	3050	SER
2	B	3148	SER
2	B	3225	SER
2	B	3239	ALA
2	B	3297	ASN
2	B	3303	ILE
2	B	3340	LEU
2	B	3341	ASN
2	B	3344	SER
2	B	3351	CYS
2	D	2960	TYR
2	D	3028	ASN

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Mol	Chain	Res	Type
2	D	3050	SER
2	D	3148	SER
2	D	3223	THR
2	D	3225	SER
2	D	3239	ALA
2	D	3297	ASN
2	D	3303	ILE
2	D	3340	LEU
2	D	3341	ASN
2	D	3344	SER
2	D	3351	CYS
2	B	3029	GLN
2	B	3039	ILE
2	B	3223	THR
2	B	3307	PRO
2	B	3320	VAL
2	B	3361	PHE
2	D	3029	GLN
2	D	3039	ILE
2	D	3307	PRO
2	D	3320	VAL
2	D	3361	PHE
1	A	50	HIS
2	B	3040	PHE
1	C	50	HIS
2	D	3040	PHE
1	A	888	SER
2	B	1798	GLU
1	C	888	SER
2	D	1798	GLU
1	A	573	GLY
1	A	676	LEU
1	A	886	GLU
2	B	2407	SER
2	B	3129	ALA
2	B	3268	VAL
1	C	573	GLY
1	C	676	LEU
1	C	886	GLU
2	D	3129	ALA
2	D	3268	VAL
2	B	2543	GLY

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Mol	Chain	Res	Type
2	B	3298	ASN
2	D	2407	SER
2	D	2543	GLY
2	D	3298	ASN
2	B	2194	VAL
2	B	3124	VAL
2	B	3338	PRO
2	D	2194	VAL
2	D	3124	VAL
2	D	3338	PRO
2	B	3149	VAL
2	D	3149	VAL
2	B	3308	ILE
2	D	3308	ILE

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 PDB entries followed by that with respect to all EM entries.

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	1457/1457 (100%)	1448 (99%)	9 (1%)	78	83
1	C	1457/1457 (100%)	1448 (99%)	9 (1%)	78	83
2	B	1522/1522 (100%)	1491 (98%)	31 (2%)	48	66
2	D	1522/1522 (100%)	1490 (98%)	32 (2%)	47	65
All	All	5958/5958 (100%)	5877 (99%)	81 (1%)	57	72

All (81) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	336	GLU
1	A	359	LEU
1	A	423	LEU
1	A	583	LEU
1	A	837	LEU
1	A	934	LEU
1	A	1224	LEU

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Mol	Chain	Res	Type
1	A	1226	LYS
1	A	1495	LYS
2	B	1680	LEU
2	B	1690	LYS
2	B	2065	ILE
2	B	2072	HIS
2	B	2275	LEU
2	B	2321	LEU
2	B	2423	LYS
2	B	2460	ILE
2	B	2633	LYS
2	B	2829	LEU
2	B	2876	LEU
2	B	2900	GLU
2	B	2952	CYS
2	B	2955	LYS
2	B	3054	LEU
2	B	3081	LEU
2	B	3109	LEU
2	B	3177	LEU
2	B	3206	LEU
2	B	3209	ILE
2	B	3240	LYS
2	B	3254	ILE
2	B	3267	HIS
2	B	3269	LYS
2	B	3271	ARG
2	B	3275	LYS
2	B	3282	LEU
2	B	3292	ILE
2	B	3297	ASN
2	B	3341	ASN
2	B	3387	ASN
1	C	336	GLU
1	C	359	LEU
1	C	423	LEU
1	C	583	LEU
1	C	837	LEU
1	C	934	LEU
1	C	1224	LEU
1	C	1226	LYS
1	C	1495	LYS

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Mol	Chain	Res	Type
2	D	1680	LEU
2	D	1690	LYS
2	D	2065	ILE
2	D	2072	HIS
2	D	2185	LEU
2	D	2275	LEU
2	D	2321	LEU
2	D	2423	LYS
2	D	2460	ILE
2	D	2633	LYS
2	D	2829	LEU
2	D	2876	LEU
2	D	2902	HIS
2	D	2952	CYS
2	D	2955	LYS
2	D	3054	LEU
2	D	3081	LEU
2	D	3109	LEU
2	D	3177	LEU
2	D	3206	LEU
2	D	3209	ILE
2	D	3240	LYS
2	D	3254	ILE
2	D	3267	HIS
2	D	3269	LYS
2	D	3271	ARG
2	D	3275	LYS
2	D	3282	LEU
2	D	3292	ILE
2	D	3297	ASN
2	D	3341	ASN
2	D	3387	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (240) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	36	GLN
1	A	50	HIS
1	A	75	HIS
1	A	152	HIS
1	A	165	GLN
1	A	174	GLN

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Mol	Chain	Res	Type
1	A	238	GLN
1	A	259	ASN
1	A	417	HIS
1	A	462	HIS
1	A	540	HIS
1	A	574	HIS
1	A	575	HIS
1	A	581	GLN
1	A	588	GLN
1	A	633	HIS
1	A	635	ASN
1	A	644	GLN
1	A	651	HIS
1	A	666	HIS
1	A	678	ASN
1	A	696	ASN
1	A	724	GLN
1	A	754	GLN
1	A	870	GLN
1	A	903	HIS
1	A	905	HIS
1	A	911	GLN
1	A	936	HIS
1	A	943	HIS
1	A	957	ASN
1	A	994	GLN
1	A	1010	GLN
1	A	1082	GLN
1	A	1111	ASN
1	A	1205	HIS
1	A	1231	GLN
1	A	1243	HIS
1	A	1300	GLN
1	A	1311	HIS
1	A	1363	ASN
1	A	1368	HIS
1	A	1372	ASN
1	A	1403	GLN
1	A	1419	GLN
1	A	1454	HIS
1	A	1466	GLN
1	A	1469	GLN

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Mol	Chain	Res	Type
1	A	1506	HIS
1	A	1530	HIS
1	A	1541	GLN
1	A	1556	HIS
1	A	1557	ASN
1	A	1575	HIS
1	A	1642	HIS
2	B	1673	GLN
2	B	1693	HIS
2	B	1742	GLN
2	B	1776	HIS
2	B	1820	HIS
2	B	1833	GLN
2	B	1842	GLN
2	B	1878	HIS
2	B	1880	GLN
2	B	1889	GLN
2	B	1929	HIS
2	B	1970	HIS
2	B	2034	ASN
2	B	2150	HIS
2	B	2156	GLN
2	B	2184	HIS
2	B	2233	HIS
2	B	2247	HIS
2	B	2261	ASN
2	B	2279	HIS
2	B	2400	GLN
2	B	2402	GLN
2	B	2453	HIS
2	B	2478	HIS
2	B	2494	HIS
2	B	2495	HIS
2	B	2502	HIS
2	B	2542	HIS
2	B	2576	GLN
2	B	2618	HIS
2	B	2636	ASN
2	B	2665	GLN
2	B	2700	HIS
2	B	2701	HIS
2	B	2703	ASN

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Mol	Chain	Res	Type
2	B	2774	HIS
2	B	2801	HIS
2	B	2816	HIS
2	B	2853	GLN
2	B	2888	HIS
2	B	2911	ASN
2	B	2913	HIS
2	B	2917	HIS
2	B	2931	GLN
2	B	2932	ASN
2	B	2974	HIS
2	B	2977	HIS
2	B	2988	HIS
2	B	3016	ASN
2	B	3042	GLN
2	B	3070	GLN
2	B	3105	HIS
2	B	3106	HIS
2	B	3138	HIS
2	B	3142	HIS
2	B	3145	ASN
2	B	3150	ASN
2	B	3151	ASN
2	B	3162	ASN
2	B	3178	ASN
2	B	3279	HIS
2	B	3297	ASN
2	B	3359	HIS
2	B	3387	ASN
1	C	36	GLN
1	C	50	HIS
1	C	152	HIS
1	C	174	GLN
1	C	238	GLN
1	C	403	HIS
1	C	417	HIS
1	C	462	HIS
1	C	540	HIS
1	C	574	HIS
1	C	575	HIS
1	C	581	GLN
1	C	588	GLN

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Mol	Chain	Res	Type
1	C	633	HIS
1	C	635	ASN
1	C	644	GLN
1	C	647	GLN
1	C	666	HIS
1	C	678	ASN
1	C	696	ASN
1	C	722	ASN
1	C	724	GLN
1	C	754	GLN
1	C	870	GLN
1	C	903	HIS
1	C	905	HIS
1	C	936	HIS
1	C	943	HIS
1	C	957	ASN
1	C	994	GLN
1	C	1010	GLN
1	C	1045	HIS
1	C	1082	GLN
1	C	1111	ASN
1	C	1205	HIS
1	C	1231	GLN
1	C	1243	HIS
1	C	1300	GLN
1	C	1311	HIS
1	C	1363	ASN
1	C	1368	HIS
1	C	1372	ASN
1	C	1403	GLN
1	C	1419	GLN
1	C	1425	ASN
1	C	1454	HIS
1	C	1466	GLN
1	C	1469	GLN
1	C	1484	GLN
1	C	1506	HIS
1	C	1530	HIS
1	C	1541	GLN
1	C	1556	HIS
1	C	1557	ASN
1	C	1575	HIS

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Mol	Chain	Res	Type
1	C	1642	HIS
2	D	1673	GLN
2	D	1693	HIS
2	D	1742	GLN
2	D	1776	HIS
2	D	1820	HIS
2	D	1833	GLN
2	D	1842	GLN
2	D	1878	HIS
2	D	1880	GLN
2	D	1889	GLN
2	D	1929	HIS
2	D	1970	HIS
2	D	2034	ASN
2	D	2141	HIS
2	D	2150	HIS
2	D	2156	GLN
2	D	2184	HIS
2	D	2233	HIS
2	D	2239	GLN
2	D	2255	GLN
2	D	2261	ASN
2	D	2279	HIS
2	D	2400	GLN
2	D	2402	GLN
2	D	2415	GLN
2	D	2453	HIS
2	D	2478	HIS
2	D	2542	HIS
2	D	2570	HIS
2	D	2576	GLN
2	D	2618	HIS
2	D	2636	ASN
2	D	2665	GLN
2	D	2700	HIS
2	D	2701	HIS
2	D	2703	ASN
2	D	2767	GLN
2	D	2774	HIS
2	D	2801	HIS
2	D	2816	HIS
2	D	2853	GLN

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Mol	Chain	Res	Type
2	D	2895	HIS
2	D	2899	HIS
2	D	2911	ASN
2	D	2913	HIS
2	D	2931	GLN
2	D	2932	ASN
2	D	2974	HIS
2	D	2977	HIS
2	D	2988	HIS
2	D	3016	ASN
2	D	3042	GLN
2	D	3057	GLN
2	D	3070	GLN
2	D	3105	HIS
2	D	3138	HIS
2	D	3142	HIS
2	D	3145	ASN
2	D	3150	ASN
2	D	3151	ASN
2	D	3162	ASN
2	D	3178	ASN
2	D	3297	ASN
2	D	3359	HIS
2	D	3387	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

16 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	CUO	A	9003	1	0,5,5	-	-	-		
3	CUO	C	9001	1	0,5,5	-	-	-		
3	CUO	B	9006	2	0,5,5	-	-	-		
3	CUO	B	9008	2	0,5,5	-	-	-		
3	CUO	D	9008	2	0,5,5	-	-	-		
3	CUO	C	9002	1	0,5,5	-	-	-		
3	CUO	B	9007	2	0,5,5	-	-	-		
3	CUO	A	9002	1	0,5,5	-	-	-		
3	CUO	C	9003	1	0,5,5	-	-	-		
3	CUO	D	9005	2	0,5,5	-	-	-		
3	CUO	D	9006	2	0,5,5	-	-	-		
3	CUO	D	9007	2	0,5,5	-	-	-		
3	CUO	A	9001	1	0,5,5	-	-	-		
3	CUO	B	9005	2	0,5,5	-	-	-		
3	CUO	A	9004	1	0,5,5	-	-	-		
3	CUO	C	9004	1	0,5,5	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CUO	A	9003	1	-	-	0/2/2/2
3	CUO	C	9001	1	-	-	0/2/2/2
3	CUO	B	9006	2	-	-	0/2/2/2
3	CUO	B	9008	2	-	-	0/2/2/2
3	CUO	D	9008	2	-	-	0/2/2/2
3	CUO	C	9002	1	-	-	0/2/2/2
3	CUO	B	9007	2	-	-	0/2/2/2
3	CUO	A	9002	1	-	-	0/2/2/2
3	CUO	C	9003	1	-	-	0/2/2/2
3	CUO	D	9005	2	-	-	0/2/2/2
3	CUO	D	9006	2	-	-	0/2/2/2
3	CUO	D	9007	2	-	-	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CUO	A	9001	1	-	-	0/2/2/2
3	CUO	B	9005	2	-	-	0/2/2/2
3	CUO	A	9004	1	-	-	0/2/2/2
3	CUO	C	9004	1	-	-	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	9003	CUO	1	0
3	B	9008	CUO	3	0
3	D	9008	CUO	3	0
3	C	9003	CUO	1	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.

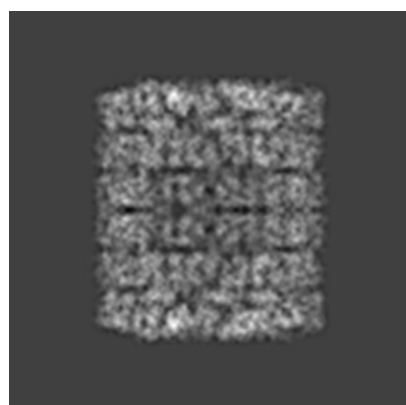
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1569. These allow visual inspection of the internal detail of the map and identification of artifacts.

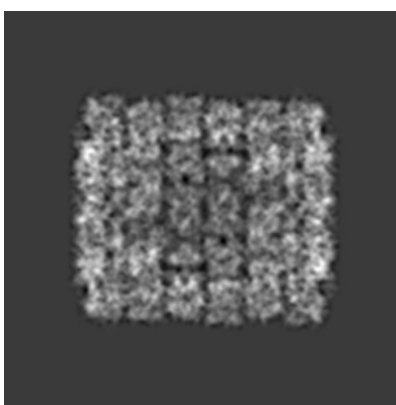
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y



Z

The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 225



Y Index: 225



Z Index: 225

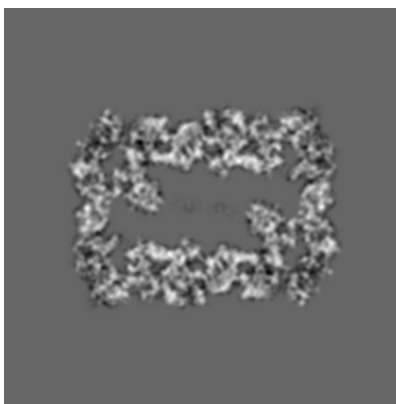
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

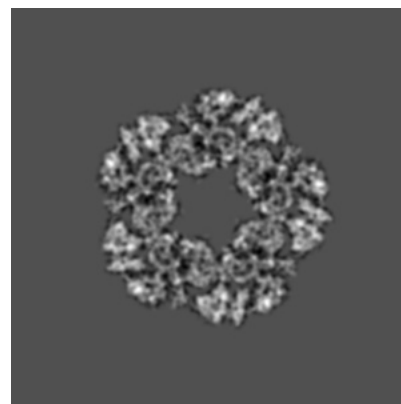
6.3.1 Primary map



X Index: 168



Y Index: 149

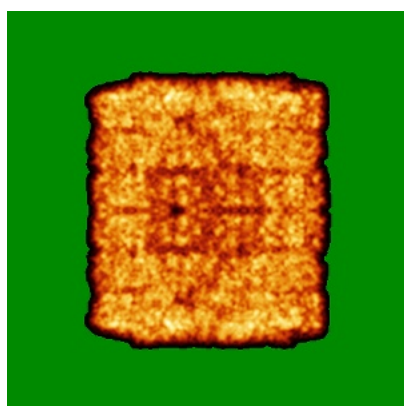


Z Index: 98

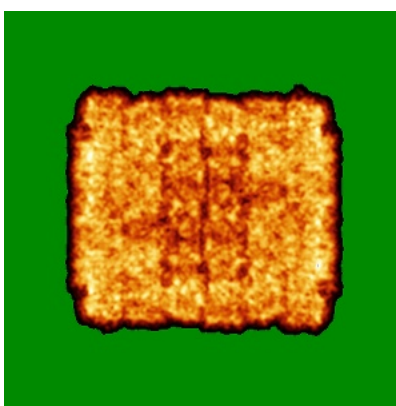
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

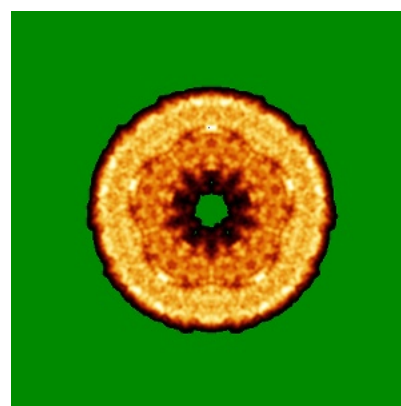
6.4.1 Primary map



X



Y



Z

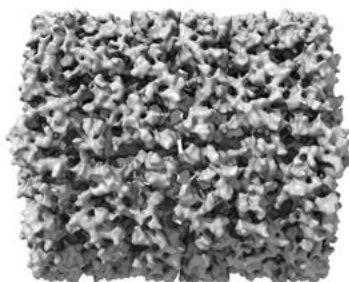
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

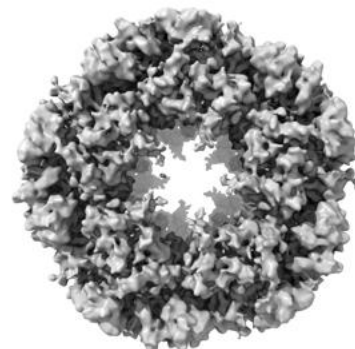
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.006. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

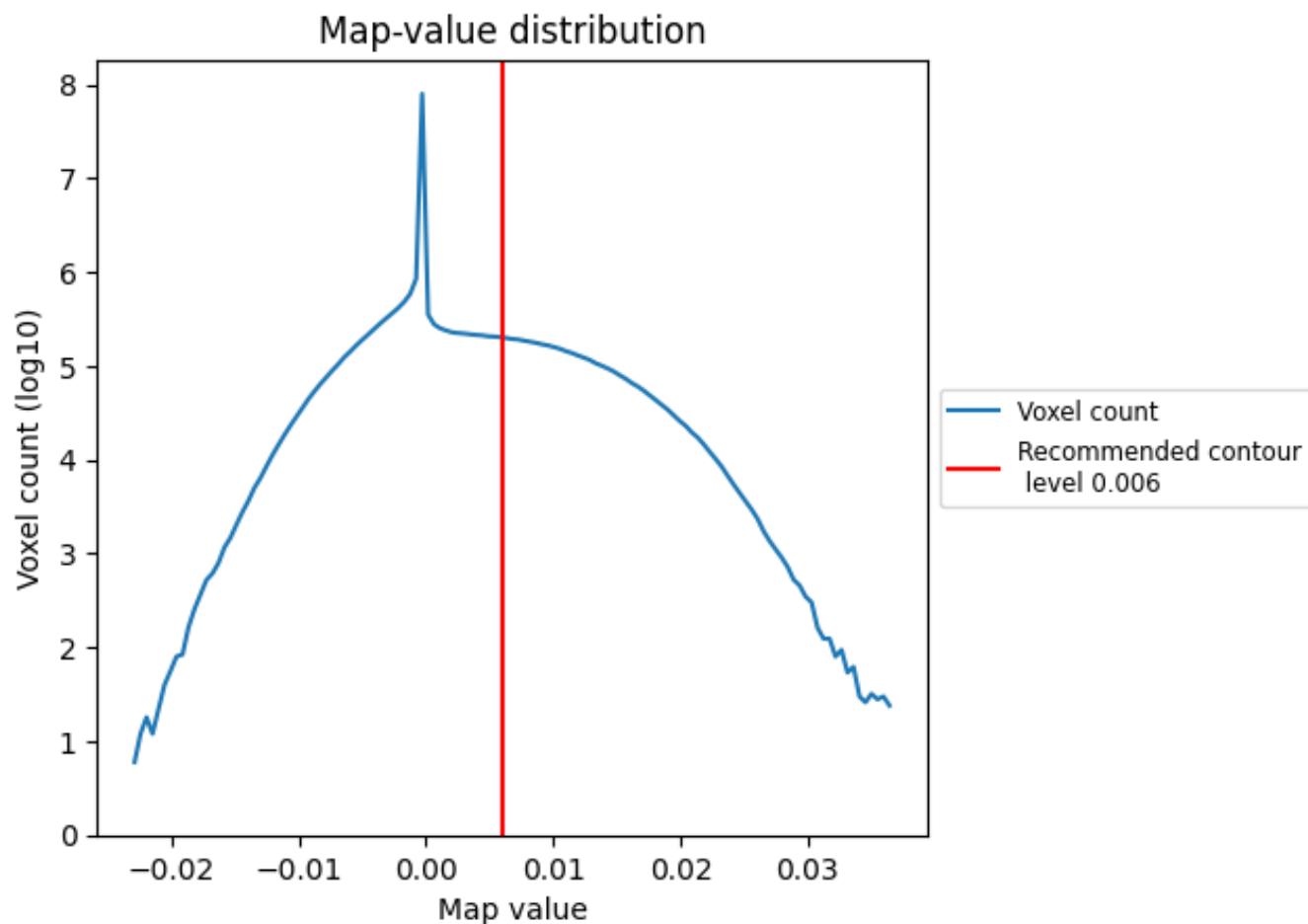
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

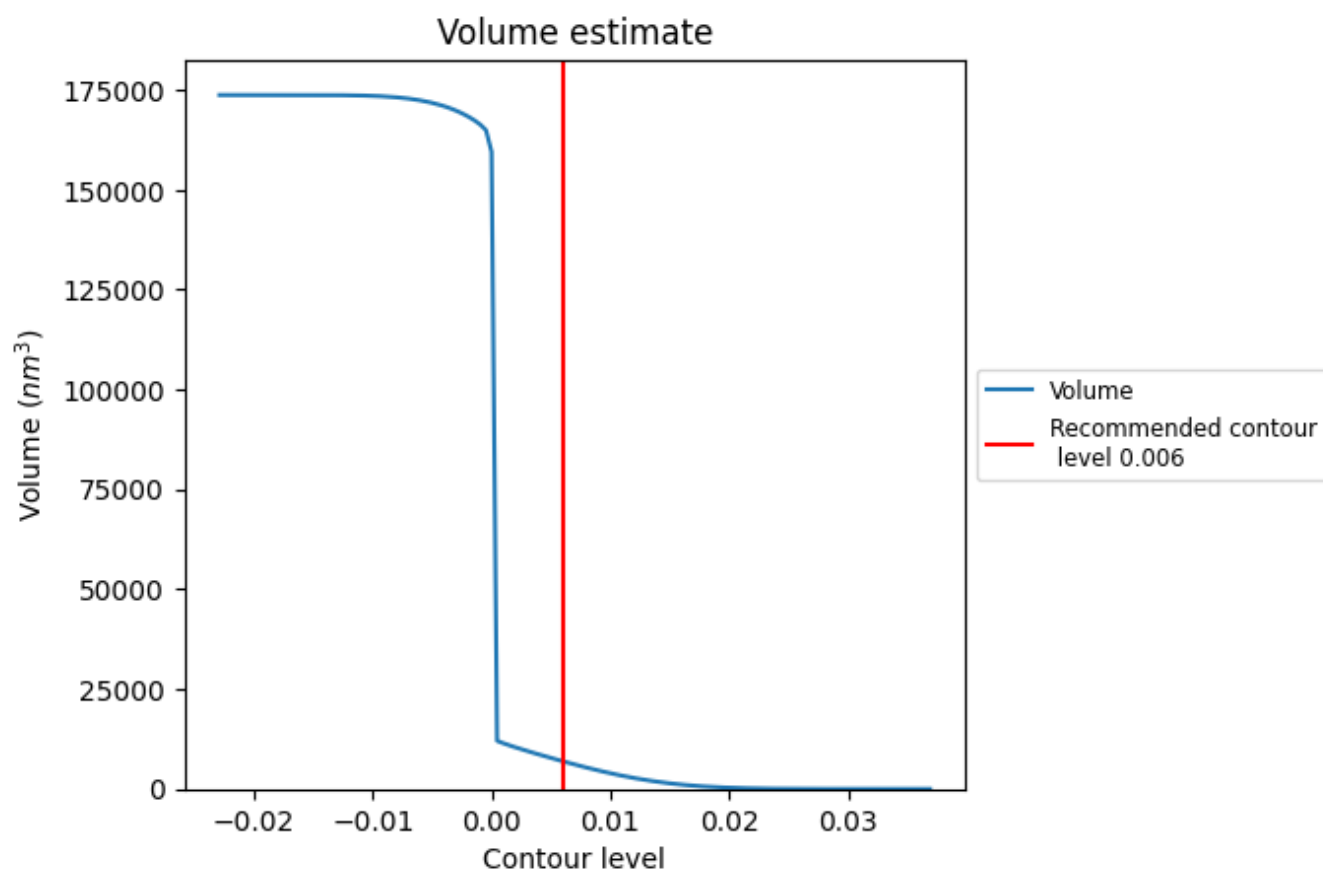
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

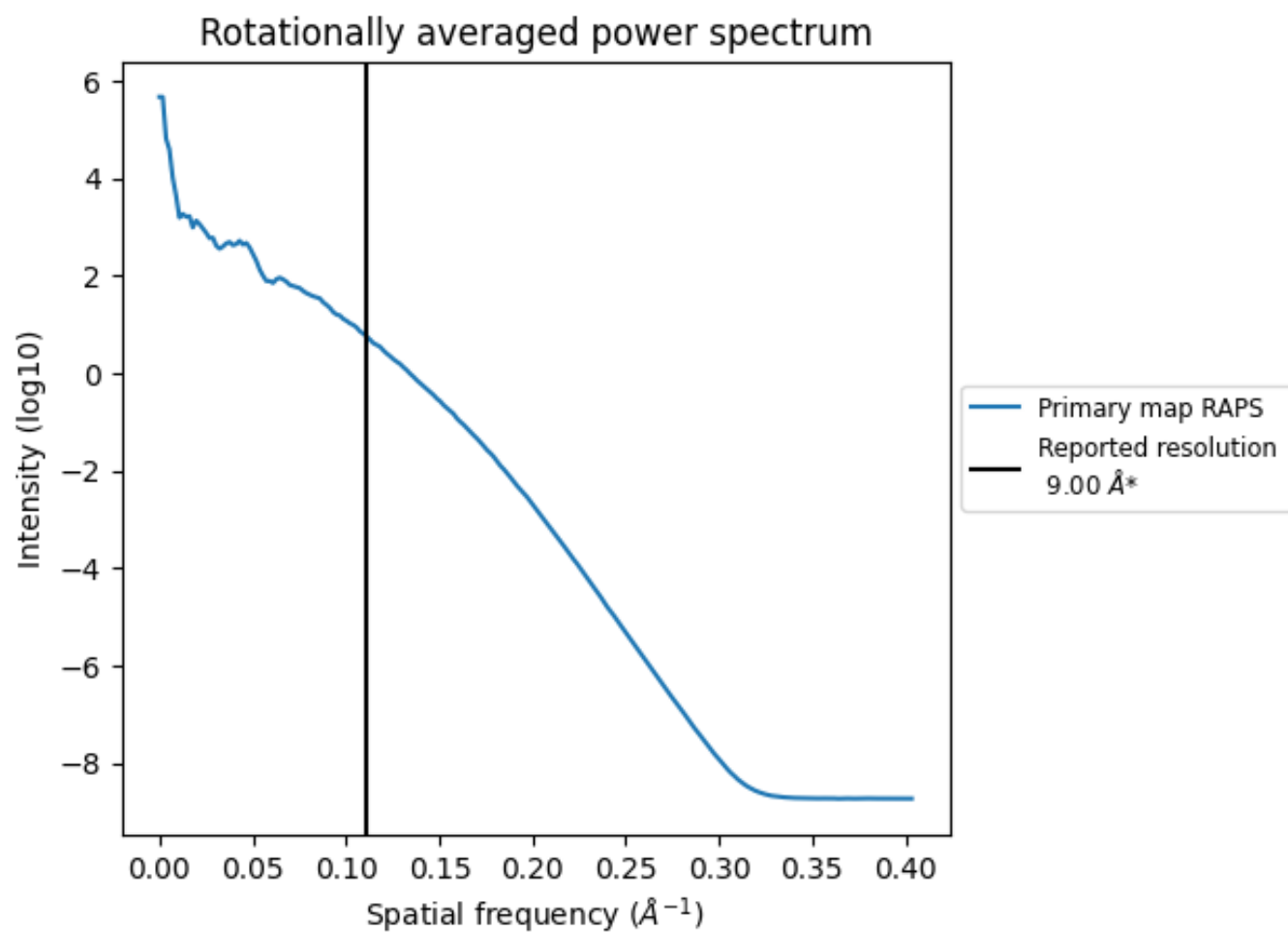
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 6926 nm^3 ; this corresponds to an approximate mass of 6256 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.111 Å⁻¹

8 Fourier-Shell correlation

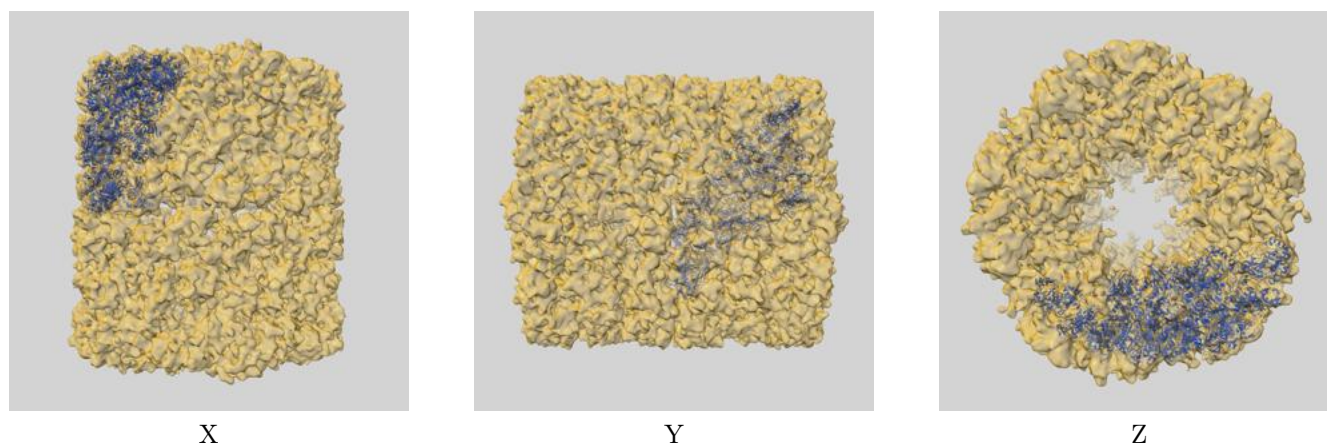
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

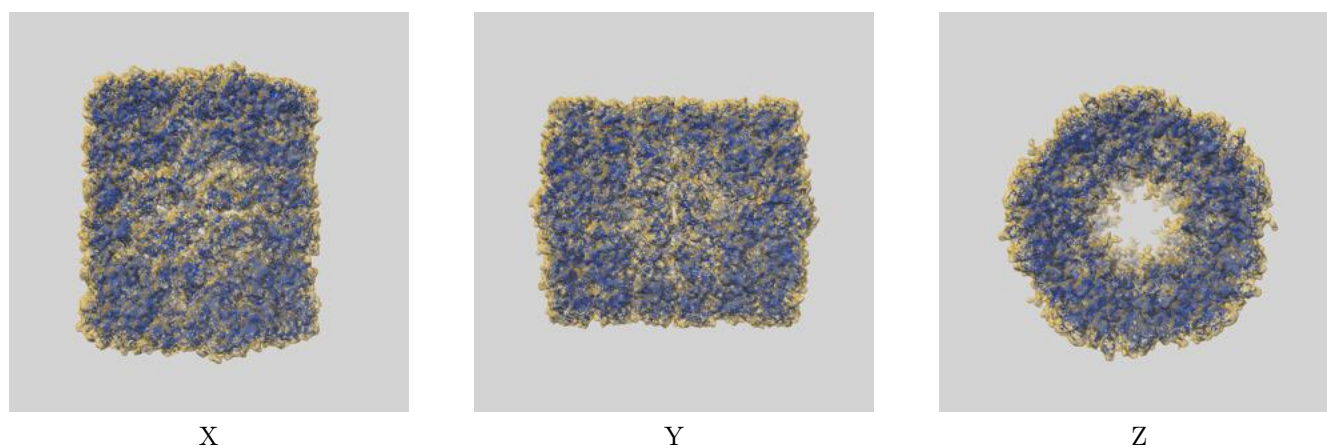
This section contains information regarding the fit between EMDB map EMD-1569 and PDB model 4BED. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

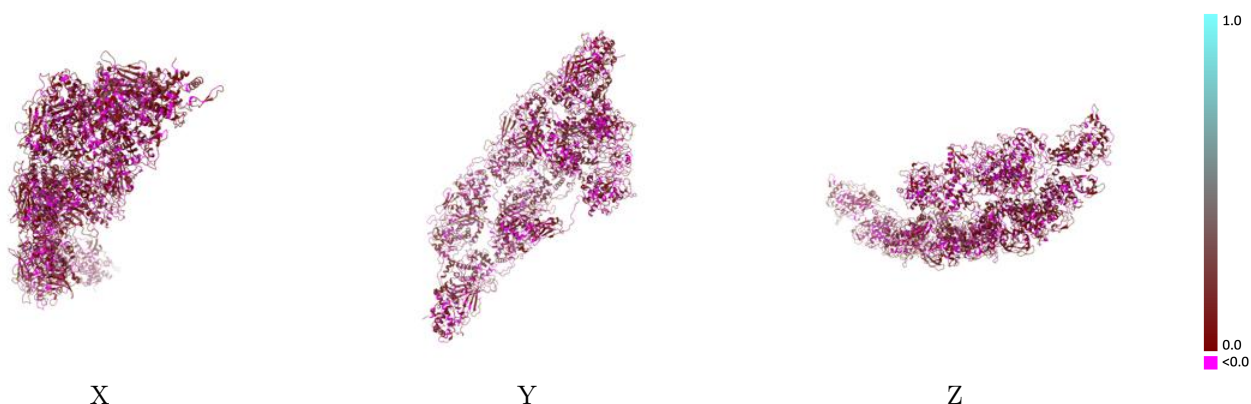


9.1.2 Map-model assembly overlay [i](#)



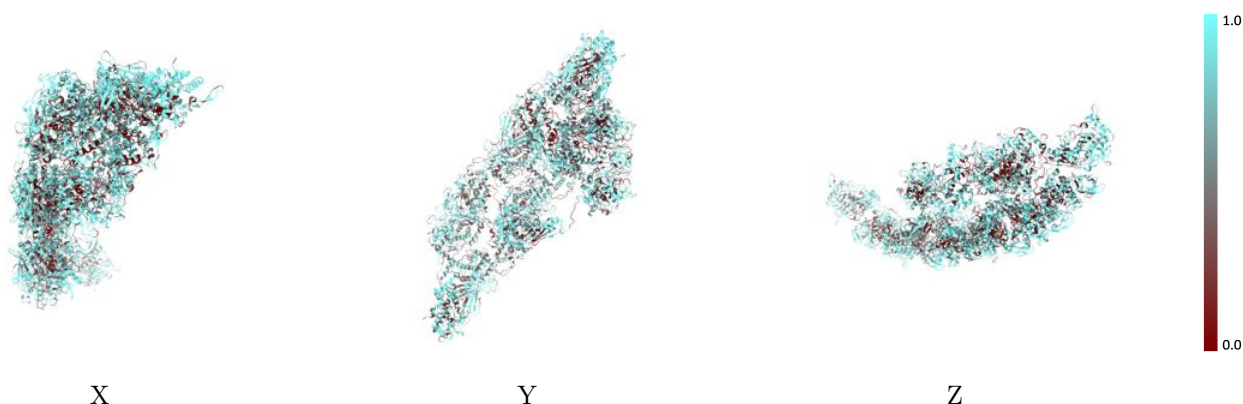
The images above show the 3D surface view of the map at the recommended contour level 0.006 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



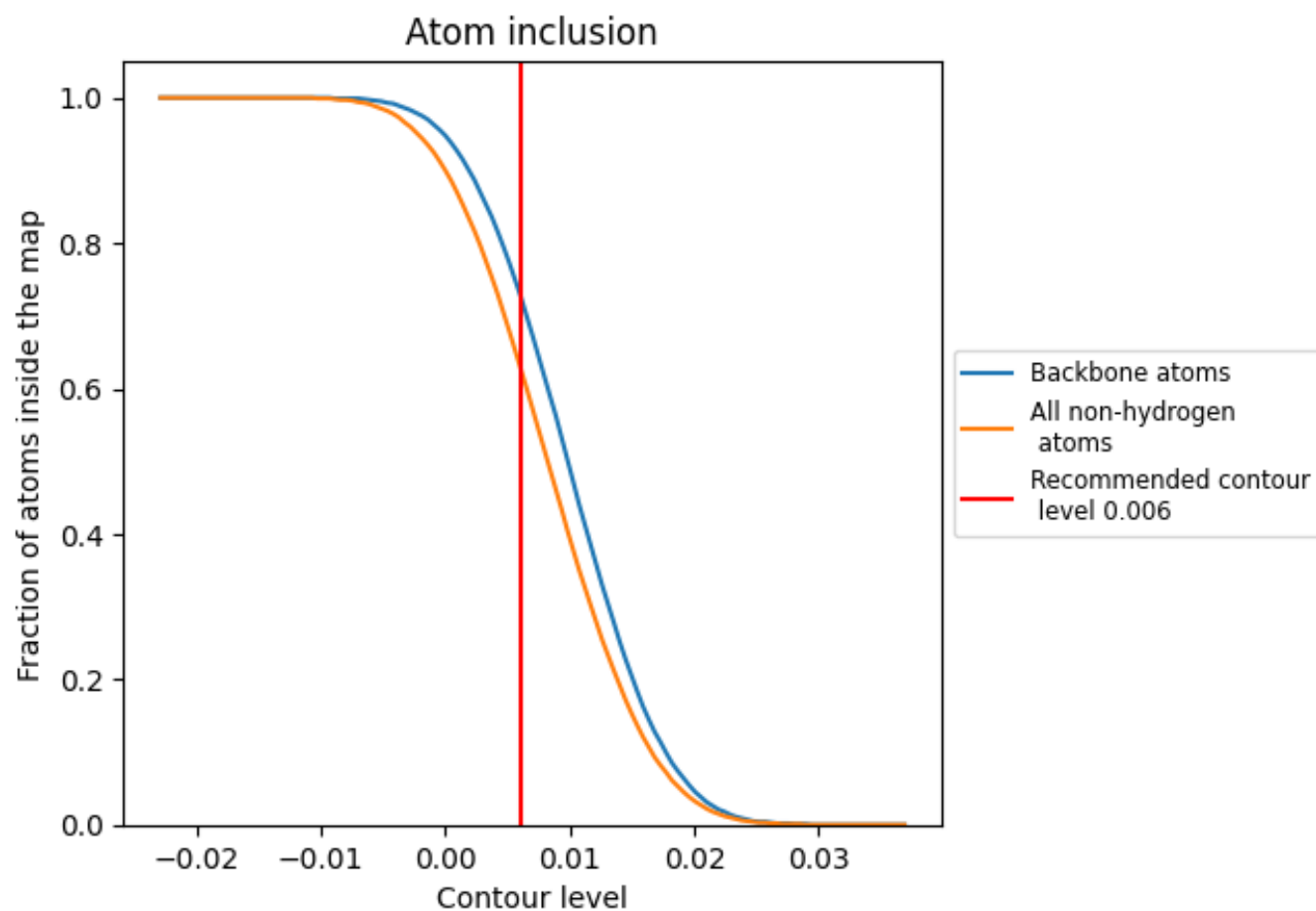
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.006).

9.4 Atom inclusion [i](#)



At the recommended contour level, 73% of all backbone atoms, 63% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.006) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6310	0.0810
A	0.6480	0.0860
B	0.5910	0.0730
C	0.6460	0.0900
D	0.6400	0.0770

